

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR

**CARRIER, PERSONNEL, FULL TRACKED, ARMORED M113A3
2350-01-219-7577 (EIC AEY)**

**CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)**

**CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)**

**CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082 (EIC AE8)**

**CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM
(SICPS) M1068A3
2350-01-369-6086 (EIC AFC)**

**CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654 (EIC 5CG)**

***SUPERSEDURE NOTICE** — Supersedes TM 9-2350-277-20, 24 July 1994, including all changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

January 2001

WARNING SUMMARY

WARNING SUMMARY

This list summarizes critical WARNINGS in this manual. They are repeated here to let you know how important they are. Study these WARNINGS carefully; they can save your life and the lives of personnel you work with.

GENERAL WARNINGS NOT FOUND IN WP PROCEDURES

The following WARNINGS are general safety statements. They are not unique to any specific procedures and, therefore, do not appear elsewhere in this TM. All personnel operating this equipment or working near this equipment must understand and continually observe the precautions in these WARNINGS.

WARNING



Heater and engine exhaust fumes contain deadly poisonous gases. Severe exposure can cause death or permanent brain damage. Exhaust gases are most dangerous in places with poor air flow.

To protect yourself and your partners, always obey the following rules:

Do not run heater or engine indoors unless you have very good air flow.

Do not idle engine for a long time unless there is very good air flow.

Do not drive carrier with any power plant access covers open or removed.

Be alert at all times. Check for the smell of exhaust fumes. If you notice any fumes, OPEN HATCH COVERS, RAMP ACCESS DOOR, OR RAMP, RIGHT AWAY.

Exhaust gas poisoning causes dizziness, headache, loss of muscle control, sleepiness, coma, and death. If anyone shows signs of exhaust gas poisoning, get ALL PERSONNEL out of the carrier. Make sure they have lots of fresh air. KEEP THEM WARM, CALM, AND INACTIVE. GET MEDICAL HELP. If anyone stops breathing, give artificial respiration. See FM 4-25.11 for first aid.

WARNING



Hydraulic fluid is poison and can be absorbed through your skin. Wash off hydraulic fluid that contacts your skin. Fire resistant hydraulic (FRH) fluid may contain Tricresyl Phosphate which, if taken internally, can produce paralysis. Wear long sleeves, gloves, goggles, and face shield. If FRH gets in eyes, wash them immediately and get medical aid immediately. If FRH gets on skin, thoroughly wash with soap and water. Wash hands thoroughly prior to eating or smoking.

WARNING SUMMARY (cont)

WARNING



Noises from carrier or weapons can damage hearing of personnel in carrier. All personnel in carrier **MUST WEAR DOUBLE HEARING PROTECTION** when gun or carrier is operated. Hearing protection devices must be properly worn to provide effective protection.

If **DOUBLE HEARING PROTECTION** is not worn, the safe level of noise exposure will be exceeded in a short time. Hearing loss occurs gradually. Each noise exposure that exceeds the ear protection guidelines below will cause a temporary hearing loss. Over time, the loss in hearing will become permanent. Plan each day's operation, and be sure all crew and riders have the required ear protectors. Spare foam earplugs must be available.

Definitions:

DH-132	The "tankers helmet," also called "CVC" helmet. Must be in good condition, with liner and earcups fitted tightly, and chin strap worn at all times.
Earplugs	Only standard issue earplugs are acceptable. All of the dismounted squad soldiers must be trained in how to use them. Since they may be removed and lost, spares must be carried.
Double Hearing Protection	Use of two hearing protection devices at the same time. For this carrier, use earplugs with the DH-132 helmet.

Ear Protection Guidelines:

Driver	Must wear DH-132 helmet at all times. Must wear DH-132 helmet plus earplugs for operations exceeding 14 miles (23 km) in 24 hours. Must close hatch immediately if .50 caliber machine gun is fired over front part of carrier. Hatch may remain open and locked during carrier operation.
Commander	Must wear DH-132 helmet at all times. Must wear DH-132 helmet plus earplugs for operations exceeding 14 miles (23 km) in 24 hours. Hatch may be locked open at all times.
Squad Members	Must wear helmet and ear plugs at all times.

Use of Radio with Earplugs

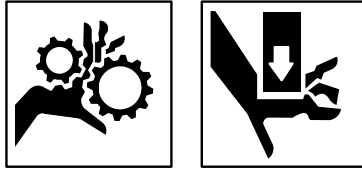
Wearing foam earplugs in addition to your DH-132 helmet can actually improve your ability to hear the radio in a high level noise area. DO NOT remove the earplugs to use the radio.

LIST OF WARNINGS IN WP PROCEDURES

This list includes all the critical WARNINGS in the WP procedures. Study these WARNINGS carefully. They can save your life and the lives of soldiers with whom you work.

WARNING SUMMARY (cont)

WARNING



Moving parts of power unit can seriously injure you.

Clear personnel away from power unit before startup. Stay clear of moving parts when power unit is running.

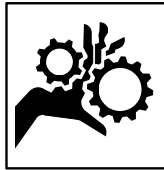
WARNING



Hot parts can burn you.

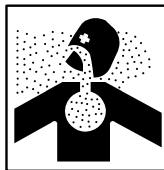
Allow parts to cool before working on or near them. If necessary, use heat protective gloves to work on hot parts.

WARNING



Ensure FUEL SHUT-OFF handle is in OFF position. Engine could start. Personnel could be injured. Stay clear of possible moving parts.

WARNING



Perform test outdoors or in a well-ventilated area to avoid illness or death caused by inhalation of carbon monoxide from the engine exhaust.

WARNING SUMMARY (cont)

WARNING



Carrier may move forward. Personnel may be injured or killed. Keep personnel away from front of carrier.

WARNING



Lowering ramp could injure personnel. Make sure no one is in ramp zone before you lower ramp. If tactical situation permits, sound horn before dropping ramp.

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

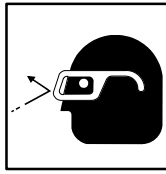
WARNING



Make sure **ALL AC** external and internal power is **OFF**.

WARNING SUMMARY (cont)

WARNING



Air pressure in excess of 30 psi (207 kPa) can injure personnel. Do not direct pressurized air at yourself or others. Always wear goggles.

WARNING



When shifting gear selector into PIVOT, vehicle can move if steering yoke is moved from centered position. Soldiers can be killed or injured. Hold brake pedal on. Clear all soldiers away from vehicle when shifting into PIVOT. Do not move yoke from centered position.

WARNING



Failure to set the parking brake and block road wheels can allow the carrier to move and result in injury or death. Always set the parking brake and block road wheels before working on the carrier.

WARNING



Never perform stall check. Transmission can be damaged. Personnel may be injured.

WARNING SUMMARY (cont)

WARNING



Hot parts can burn you. Use care when you work near hot power unit.

WARNING



Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy the vehicle. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system. Disconnect vehicle ground when working on the fuel system.

WARNING



Lowering ramp could injure personnel. Make sure no one is in ramp zone before you lower ramp. Unlocked ramp can fall open suddenly. Personnel can be killed or injured. Ramp system and hull can get damaged if ramp unlocks when carrier is in operation. Do not operate carrier if locks do not secure ramp properly. Keep away from ramps that have come open during carrier operation.

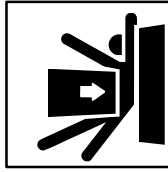
WARNING



Ramp wire rope (cable) failure may cause bodily injury or death to personnel or damage to equipment .

WARNING SUMMARY (cont)

WARNING



Power plant door may spring open. When opening door, stay out of door path. Soldiers can be injured.

WARNING



Hydraulic fluid is poisonous and can be absorbed through your skin. Wash off any hydraulic fluid that contacts your skin. Read the hydraulic fluid warning in the front of this manual.

WARNING



You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Handle with great care.

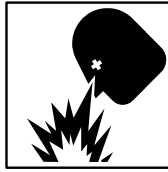
WARNING



Battery posts and cables touched by metal objects can short circuit and burn you. Do not wear jewelry, necklaces, or watches when working on the electrical system. Keep tools away from posts, wires, and terminals.

WARNING SUMMARY (cont)

WARNING



Gas from batteries can explode and injure you. Do not allow sparks near batteries. Battery acid can burn or blind you. Do not get acid on your skin or eyes.

WARNING



Lethal voltage is present when light set is connected to power source. Disconnect from power source before inspecting or repairing any electrical component. Be careful not to contact electrical connections. Electrical shock and death may result from failure to heed this warning.

WARNING



Seat can spring up and hit you when vertical control handle is released. Make sure you are sitting in the seat before releasing vertical control handle.

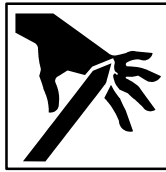
WARNING



Fuel cut-off control at driver's position must be pulled all the way out to prevent engine from starting. Personnel could be injured or killed if engine starts during this PMCS check.

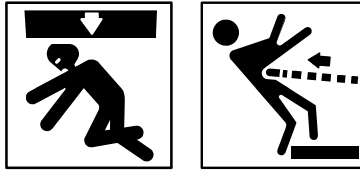
WARNING SUMMARY (cont)

WARNING



Removing lower brake bearing from brake pivot shaft link while parking brake is on can cause shaft link to spring up and injure personnel. Disengage parking brake when doing this task.

WARNING



Damaged slings can fail when loaded. Breaking slings can strike and injure personnel. Suspended load can fall and crush personnel.

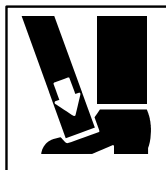
Inspect all slings before use. Do not use damaged slings. Clearly mark all damaged slings as **DAMAGED - DO NOT USE**.

WARNING



Hanging loads can kill or injure you. Keep away from hanging loads and overhead equipment. Keep hands out of compartment while power plant is being lifted for removal or lowered for installation.

WARNING



Blocking power plant on unlevel, soft ground can cause power plant to sink and tip over. Personnel can be injured and power plant can be damaged. Make sure to block power plant on flat, hard ground.

WARNING SUMMARY (cont)

WARNING



Fuel fumes can explode and burn you. Do not smoke or allow open flame near carrier when removing and cleaning fuel cap(s).

WARNING



Fuel flowing over a metal surface causes static electricity. This will cause a spark unless the surface is grounded.

WARNING



Make sure parking brake is set before you start engine. Carrier could lurch and injure you.

WARNING



Hot exhaust pipes can burn you. Let power unit cool before you start work.

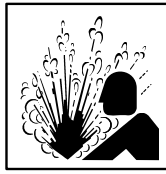
WARNING



Sharp edge safety wire can cut your fingers. Make sure to twist end of wire and bend back close to the attaching hole.

WARNING SUMMARY (cont)

WARNING



Hot radiator coolant can burn you. Remove cap only if cool to touch. Drain cocks may be hot. Turn cap slowly to release pressure. Replace cap by pressing down and turning until tight.

WARNING



Radiator is heavy and can cause back injury if handled improperly. Be sure to use a hoist and helper to remove radiator.

WARNING



Generator weighs 80 lb (37 kg) and can cause back injury if handled improperly. Be sure to use a hoist or a helper to remove generator.

WARNING



Starter weighs 75 lbs (34 kg) and can cause back injury if handled improperly. Be sure to use a hoist or a helper to remove starter.

WARNING SUMMARY (cont)

WARNING



Battery posts and cables touched by metal objects can short circuit and burn you or injure you. Use caution when you work with tools or other metal objects. Do not wear jewelry when working on electrical system.

Some circuits remain energized even when MASTER SWITCH is OFF. Make sure ground strap is disconnected when there is any possibility that the circuit you are working on could be energized.

WARNING



Electrical current can burn you. Disconnect ground lead before starting task.

WARNING



Gas from batteries can explode and injure you. Do not allow sparks near batteries. Battery acid can burn or blind you. Do not get acid on your skin or eyes. ALWAYS disconnect ground lead first and connect it last.

WARNING



Electrolyte and battery corrosion can cause injury to you. Wear safety goggles and gloves. If electrolyte or battery corrosion contacts the eyes, skin, or clothing, flush immediately with large amounts of cold water. In case of eye or skin contact, see a doctor immediately.

WARNING SUMMARY (cont)

WARNING



Battery is heavy and can cause back injury if handled improperly. Be sure to have helper assist you to remove and replace battery. Battery weighs about 75 lb (34 kg).

WARNING



Sharp wire end can injure hands. Make sure wire is doubled over as a safety measure.

WARNING



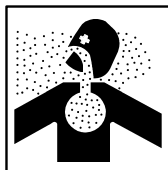
High voltage in the AN/VVS-2 driver's night vision can cause serious injury or death. To avoid accidents:

ALWAYS connect power cable to periscope BEFORE turning MASTER SWITCH and DNV POWER switch to ON.

After turning DNV POWER and MASTER switch OFF, ALWAYS wait at least 2 minutes BEFORE disconnecting power cable from DNV. Do not disconnect power cable until image disappears from DNV screen.

NEVER touch the end of the cable or allow it to contact metal surfaces. Voltage could exceed 16,000 volts.

WARNING



Breathing carbon monoxide fumes from engine exhaust could kill you or injure you. Perform tests outdoors or in a well-ventilated area.

WARNING SUMMARY (cont)

WARNING



Clear the area before checking adjustment. Carrier may pivot steer and injure personnel. Place transmission controller in SL before checking adjustment.

WARNING



If steering wheel is turned while engine is running at 1000 RPM or greater, the carrier will pivot and personnel could be killed or equipment damaged.

WARNING



The final drive is heavy and can cause back injury if handled improperly. Be sure to use a hoist or a helper to remove final drive.

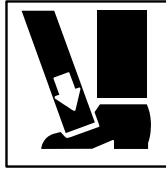
WARNING



Failure of control linkage can cause carrier to crash. Crash could kill or injure personnel.

WARNING SUMMARY (cont)

WARNING



If road wheel lifter slips while lowering road arm, it could injure you. Stand clear before you lower road arm.

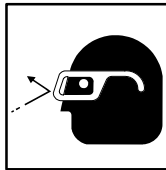
WARNING



Hanging loads, heavy parts, and overhead equipment can fall unexpectedly. Falling loads can kill or seriously injure personnel.

Keep away from hanging loads, heavy parts, and overhead equipment. Use correct lifting devices to move hanging loads and heavy parts. Always have a helper guide you. Keep hands and feet out of confined spaces from which heavy loads are being installed or removed.

WARNING



Your eyes can be injured with pressurized water and dirt particles. Wear safety goggles.

WARNING



Before adjusting track, ensure there are 63 track shoes on the left side track, and 64 track shoes on the right side track. Improper number of track shoes may prevent track from being properly adjusted, creating a safety hazard.

WARNING SUMMARY (cont)

WARNING



Position retainer stops inside of end connectors to prevent the lifter from slipping off and causing injury and/or death to personnel.

WARNING



With the transmission controller in any range except SL and if the locking pin is protruding from the steering wheel housing any amount, the steering wheel will not turn properly and death of personnel or damage of equipment may occur.

WARNING



Engine exhaust gas is deadly poison. Make sure the bellows are installed properly in engine compartment panel hole.

WARNING



Carbon monoxide gas is deadly poison. Play it safe! Make sure power plant access panels are closed tight before you start engine.

WARNING SUMMARY (cont)

WARNING



The grill assembly will swing when screws are removed. To avoid injury, do not stand in front of or behind grill assembly.

WARNING



Grill and access cover are very heavy. Use extreme caution when lifting blocking, and lowering assembly. Allowing assembly to fall could cause death or injury.

WARNING



Power plant door is heavy. It can fall and injure you. Do not remove housing before relieving spring tension by lifting and holding with lifting device.

WARNING



Hanging loads, heavy parts, and overhead equipment can fall unexpectedly and kill or injure you.

Stay clear of hanging loads, heavy parts, and overhead equipment. Use correct lifting devices. Always have helper guide heavy parts and equipment.

WARNING SUMMARY (cont)

WARNING



Driver's hatch cover may spring up and injure you. Open and support hatch cover in vertical position.

WARNING



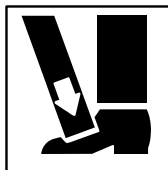
Mortar hatch sections must be in a vertical position to release torsion spring tension before removing torsion spring brackets.

WARNING



Personnel could be injured if they slip on oil or graphite on top of carrier. Clean up spills immediately. Personnel on top of carrier should always use three point stance.

WARNING



Do not remove screws securing door to hull. It may fall and injure personnel. Tag door handle to warn those who want access to turbine compartment.

WARNING SUMMARY (cont)

WARNING



Falling hatch could seriously injure you.

Keep head lower than closed hatch position when opening or closing hatch. Keep hands clear of hatch rim when closing. Make sure latch pin or mechanism is fully engaged when hatch is in any open position.

WARNING



An inoperable/unsafe ramp can fall and kill soldiers. Follow these procedures and never get behind a raised, inoperable/unsafe ramp that is not secured.

WARNING



Falling ramp could cause severe injuries. Keep personnel clear of ramp area.

WARNING



Magnesium may catch on fire if welded on or exposed to high temperatures. Do not weld on magnesium castings or expose them to high temperatures.

WARNING SUMMARY (cont)

WARNING



Fine particles of magnesium can catch fire and burn you. Be very careful when filing or grinding on magnesium. Use grinding equipment marked FOR MAGNESIUM GRINDING ONLY. Keep a Class D fire extinguisher nearby.

WARNING



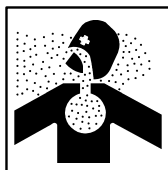
Water and foam-type fire extinguishers will cause magnesium fires to flare up. Use a Class D fire extinguisher or a sodium chloride base dry powder to fight magnesium fires.

WARNING



Improper disposal of magnesium can cause a fire or explosion. Do not expose magnesium to high temperatures. Let magnesium dry before placing in sealed metal containers. Label containers and ship to a Class 1 hazardous waste disposal site.

WARNING



Do not weld on plastic molding material. Welding on plastic molding creates toxic fumes. Fumes are hazardous to your health and can result in death.

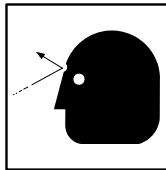
WARNING SUMMARY (cont)

WARNING



Fuel fumes can explode and burn you. Before welding:
Drain all fuel.
Disconnect and cap all fuel and vent lines.
Purge fuel residue and fumes by steam cleaning.
Purge air from fuel tank with CO2.

WARNING



Apply pressure on tube to prevent spring from releasing when handle is pulled out. Injury to personnel can result from flying tube and spring.

WARNING



Rear trays of ammo rack could collapse when removed. To prevent injury, move ammo rack from the front. Keep fingers away from spaces between trays on the back of ammo rack.

WARNING



Fire Resistant Hydraulic fluid (FRH) is toxic if absorbed through skin or ingested.

Do not service hydraulic system when FRH is hot or pressurized.
Wear gloves and avoid contact with skin.
If FRH contacts skin, wash immediately with soap.
If FRH gets into eyes, wash with lots of water for 15 minutes and get medical attention.
If FRH is swallowed, get medical attention.

WARNING SUMMARY (cont)

WARNING



Wearing loose clothing around moving parts can allow personnel to get caught and result in injury or death. Tuck in loose clothing.

WARNING



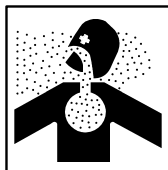
Lifting or moving objects in excess of 70 lbs (32 kg) could injure you. Make sure to get an assistant or use a lifting device to move generator set enclosure or other heavy objects.

WARNING



Diesel fuel can catch fire and seriously injure or kill soldiers and damage or destroy vehicles. Wipe up fuel spills immediately. Do not smoke near fuel or when working on the fuel system.

WARNING



Exhaust fumes can poison you if wrong heater is installed. Do not interchange “common air” heater for a “dual air” heater.

WARNING SUMMARY (cont)

WARNING



The insulator blanket is made out of asbestos. Handle with care. Discard insulator blanket properly as a hazardous material per local standard operating procedure. The insulator washer takes the place of the blanket.

WARNING



Older gaskets are made out of asbestos. Handle with care. Discard older gasket properly as a hazardous material per local standard operating procedure.

WARNING



To prevent litter tilt, which could cause injury, be sure to install repair link at chain link No. 47.

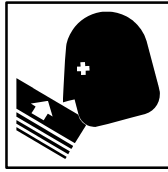
WARNING



Armor plates are heavy and can cause injury or death. Support armor plate properly to avoid injury.

WARNING SUMMARY (cont)

WARNING



Power plant door contains a torsion spring assembly which could cause injury or death to personnel. Door must be raised to neutral position before removing two screws from housing.

WARNING



Ramp door is heavy and can cause injury or death. Support ramp door properly to avoid injury.

WARNING



Fog oil is slippery and can cause soldiers to fall and get injured. Clean up all spillage or leakage of fog oil as soon as possible by washing the area or absorbing the fog oil with sand or other absorbent material.

WARNING



Lifting or moving objects in excess of 70 lbs (32 kg) could injure you. Make sure to get an assistant or use a lifting device to move fog oil tank, armor, or other heavy objects.

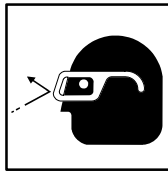
WARNING SUMMARY (cont)

WARNING



Hanging loads can kill or injure you. Keep away from hanging loads and overhead equipment. Keep hands away from pinch points.

WARNING



Compressed air pressure from smoke generator can cause serious injury or death. To avoid accidents, bleed air before working on air compressor assembly or disconnecting any air hose.

WARNING



Before you do any maintenance, discharge all capacitors to ground or electrical shock could injure personnel.

WARNING



Fuel and fog oil can burn and could poison you.

WARNING SUMMARY (cont)

WARNING



Contaminated filters are hazardous to personnel. Use precautions when handling filters. Dispose of filters using trained chemical environment personnel.

WARNING



Removing cables from the regulator without disconnecting the vehicle battery ground cable may hurt personnel and damage equipment from electrical power.

WARNING



Hot exhaust pipes can burn you. Let power unit cool before you start work.

WARNING



Battery posts and cables touched by metal objects can short circuit and burn you. Use caution when you work with tools or other metal objects. Do not wear jewelry when you work on electrical system.

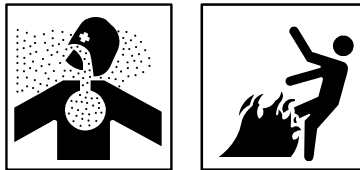
WARNING SUMMARY (cont)

WARNING



You could be injured if cylinder discharges when it is out of its mounting brackets or is dropped. Discharge cylinder completely before removing from its mount. Handle with great care.

WARNING



Adhesive, primer, sealant compounds, and isopropyl alcohol are toxic and flammable. These compounds are toxic to eyes, skin, and respiratory tract. Continued exposure can make you dizzy and irritate your eyes and throat.

Always use in well ventilated areas, away from heat, sparks, and flames. Do not breathe fumes. Do not allow into contact with skin and eyes. Use goggles or face shield and protective gloves.

WARNING



The grill assembly will swing when screws are removed. To avoid injury, do not stand in front of or behind grill assembly.

Damaged lifting slings can fail with load. Soldiers can be killed or injured. Inspect all slings before use. Do not use damaged slings.

Grill and access cover are very heavy. Use extreme caution when lifting, blocking, and lowering assembly. Allowing assembly to fall could cause death or injury.

WARNING SUMMARY (cont)

WARNING



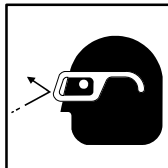
Personnel can be killed or injured by a falling 800 lb (363 kg) mine armor plate. Use a forklift or mechanical lifting device capable of lifting 800 lb (363 kg) to position hull mine armor plate for assembly.

WARNING



Personnel can be killed or injured by a falling 800 lb (363 kg) mine armor plate. Use a forklift or mechanical lifting device capable of lifting 800 lb (363 kg) to support hull mine armor plate for removal. Verify that armor plate is properly supported before reaching under to remove hardened washers and screws.

WARNING



Metal chips and grinding dust can cause eye injury. Wear goggles and gloves.

WARNING



To avoid possible rupture of fuel tank and personnel injury, do not drill any holes prior to tilting of table top.

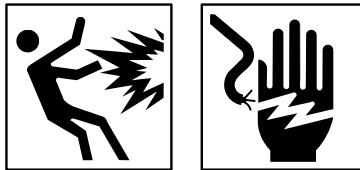
WARNING SUMMARY (cont)

WARNING



To ease in the removal of power distribution assembly (PDA), use hand to support PDA. Use care to avoid injury to personnel or damage to equipment.

WARNING



To avoid personnel injury or damage to equipment, when removing positive cable, avoid any contact of positive battery cable with surrounding metal surfaces. Contact can cause battery arcing or explosion. Wear safety glasses.

WARNING



To avoid personnel injury and damage to equipment, route cable 4W6 in position clear of personnel heater.

WARNING



Each Outback inverter assembly weighs 70 lbs (32kg) and may be awkward to handle. Use correct lifting procedures, indicated lifting devices, and/or assistance from other personnel to avoid injury. Failure to comply could result in injury to personnel and equipment damage.

WARNING SUMMARY (cont)

WARNING



Battery posts and power cables can short circuit and burn you.

Remove vehicle ground cable before starting task. Do not touch battery posts with tools or other metal objects. Do not wear jewelry when working with battery or electrical system.

FIRST AID

For first aid information, see FM 4-25.11.

CHANGE
NO. 5

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 01 JUNE 2009

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR

CARRIER, PERSONNEL, FULL TRACKED, ARMORED M113A3
2350-01-219-7577 (EIC AEY)

CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)

CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)

CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082 (EIC AE8)

CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM (SICPS) M1068A3
2350-01-369-6086 (EIC AFC)

CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654 (EIC 5CG)

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Remove Pages/Work Packages

a – ad
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i – xxxvii/xxxviii blank
WP 0001 00 – 0003 00
Chapter 2 WP Index
WP 0006 00
WP 0014 00 – 0016 00
WP 0021 00
WP 0024 00 – 0026 00
WP 0032 00
WP 0037 00
WP 0044 00 – 0045 00
WP 0053 00 – 0054 00

Insert Pages/Work Packages

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A - D
i – xxxvii/xxxviii blank
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Chapter 2 WP Index
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 WP 0228 00
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 WP 0262 00
 WP 0279 00 – 0279 01
 WP 0282 00
 WP 0295 00 – 0295 01
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 WP 0303 00 – 0304 00
 WP 0325 00
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 WP 0394 00
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 WP 0430 00
 Chapter 17 WP Index
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 WP 0470 00 – 0471 00
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 WP 0282 00
 WP 0295 00 – 0295 01
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 WP 0360 00 - 0361 00
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 WP 0373 00
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 WP 0430 00
 Chapter 17 WP Index
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 WP 0812 12
 WP 0812 14
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 WP 0847 00
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 WP 0863 00 – 0865 00
 Chapter 27 WP Index
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 WP 0867 00 – 0868 00
 WP 0870 00 – 0871 00
 WP 0873 00 – 0875 00
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 WP 0881 00 – 0882 00
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 DA 2028 Forms

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 WP 0860 00 – 0861 00
 WP 0863 00 – 0865 00
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 WP 0866 01 – 0866 05
 WP 0867 00 – 0868 00
 WP 0870 00 – 0871 00
 WP 0873 00 – 0875 00
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 WP 0881 00 – 0882 00
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 FP-1 – FP-30.1/FP-30.2 blank
 FP-63 – FP 103/FP-104 blank
 FP-106.1 – FP-121/FP-122 blank
 DA 2028 Forms

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CHANGE
NO. 4

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 31 DECEMBER 2006

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR

**CARRIER, PERSONNEL, FULL TRACKED, ARMORED M113A3
2350-01-219-7577 (EIC AEY)**

**CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)**

**CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)**

**CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082 (EIC AE8)**

**CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM (SICPS) M1068A3
2350-01-369-6086 (EIC AFC)**

**CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654 (EIC 5CG)**

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Remove Pages/Work Packages

a – l
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i – xxxix/xxxx blank
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WP 0042 00
WP 0061 00
WP 0067 00
WP 0081 00
WP 0084 00
WP 0096 00
WP 0106 00
Index-1 – Index-103/104 blank
Metric Chart/Back Cover

Insert Pages/Work Packages

a – ad
A/B blank
i – xxxvii/xxxviii blank
WP 0001 00 – 0002 00
WP 0042 00
WP 0061 00
WP 0067 00
WP 0081 00
WP 0084 00
WP 0096 00
WP 0106 00
Index-1 – Index-99/100 blank
Metric Chart/Back Cover

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NO. 3

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TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

FOR

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WP 0006 00
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Index 53 – Index 54
Index 93 – Index 94
Index 99 – Index 102

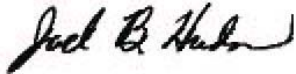
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WP 0002 00
Chapter 2 WP Index
WP 0006 00
WP 0061 01
Index 17 – Index 28
Index 53 – Index 54
Index 93 – Index 94
Index 99 – Index 102

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Remove Pages/Work Packages

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WP 0003 00
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WP 0006 00
WP 0007 00
WP 0008 00
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WP 0012 00
WP 0014 00
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WP 0015 00
WP 0027 00
WP 0028 00
WP 0045 00
WP 0046 00
WP 0047 00
WP 0078 00
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WP 0088 00
WP 0121 00
WP 0122 00
WP 0132 00
WP 0136 00
WP 0137 00
Index
Cover

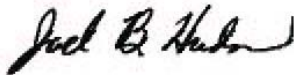
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WP 0003 00
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WP 0045 00
WP 0046 00
None
WP 0078 00
None
WP 0087 00
None
WP 0121 00
WP 0122 00
WP 0132 00
WP 0136 00
None
Index
Cover

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2350-01-219-7577 (EIC AEY)**

**CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085 (EIC AE7)**

**CARRIER, ANTI-TANK (TOW), FULL TRACKED, ARMORED M901A3
2350-01-369-7253 (EIC AFD)**

**CARRIER, FIRE SUPPORT PERSONNEL, FULL TRACKED, ARMORED M981A3
2350-01-369-6079 (EIC AFB)**

**CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083 (EIC AFA)**

**CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
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Remove Pages/Work Packages

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Chapter 2 WP Index
WP 0006 00
WP 0014 00
WP 0016 00
WP 0029 00
WP 0045 00
WP 0054 00
WP 0086 00
NEW
NEW
WP 0122 00
Index

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A/B
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Chapter 2 WP Index
WP 0006 00
WP 0014 00
WP 0016 00
WP 0029 00
WP 0045 00
WP 0054 00
WP 0086 00
WP 0116 01
WP 0116 02
WP 0122 00
Index

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LIST OF EFFECTIVE PAGES/WORK PACKAGES

Note: Updates to all portions of this TM are indicated by a vertical bar in the outer margin of the page.

Dates of issue for original and updated pages/work packages are:

Original 02 January 2001
 Change 1 05 September 2003
 Change 2 02 October 2003
 Change 3 27 April 2004
 Change 4 31 December 2006
 Change 5 01 June 2009

TOTAL NUMBER OF PAGES FOR FRONT AND REAR MATTER IS 296 AND TOTAL NUMBER OF WORK PACKAGES IS 985 CONSISTING OF THE FOLLOWING:

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Cover	2	WP 0053 00 – 0054 00	5	WP 0157 00 – 0158 00	0
Transmittal/Authentication	5	WP 0055 00	0	WP 0159 00	2
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A – D	5	WP 0060 00	0	WP 0161 00	5
i – xxxvii/xxxviii blank	5	WP 0061 00 – 0073 00	5	WP 0162 00 – 0165 00	0
Chapter 1 WP Index	0	WP 0074 00 – 0077 00	0	Chapter 5 WP Index	5
WP 0001 00 – 0003 00	5	WP 0078 00	2	WP 0166 00	5
WP 0004 00	0	WP 0079 00 (Deleted)	2	WP 0167 00	0
Chapter 2 WP Index	5	WP 0080 00	0	WP 0168 00	1
WP 0005 00	2	WP 0081 00	4	WP 0169 00	5
WP 0006 00	5	WP 0082 00 – 0083 00	0	WP 0169 01 (Added)	5
WP 0007 00	2	WP 0084 00	5	WP 0170 00	5
WP 0008 00 (Deleted)	2	WP 0085 00	0	WP 0171 00	0
WP 0009 00 – 0010 00	0	WP 0086 00	5	WP 0172 00	5
WP 0011 00	2	WP 0087 00	2	WP 0173 00 – 0174 00	0
WP 0012 00 (Deleted)	2	WP 0088 00 (Deleted)	2	WP 0175 00	5
WP 0013 00	0	WP 0089 00	5	WP 0176 00	1
WP 0014 00 – 0016 00	5	WP 0090 00 – 0095 00	0	WP 0177 00 – 0178 00	0
WP 0017 00 – 0020 00	0	WP 0096 00	4	WP 0179 00	3
WP 0021 00	5	WP 0097 00 – 0105 00	0	WP 0180 00 – 0181 00	0
WP 0022 00 – 0023 00	0	WP 0106 00	4	WP 0182 00	1
WP 0024 00 – 0026 00	5	WP 0107 00 – 0116 00	0	WP 0183 00	0
WP 0027 00	2	WP 0107 00 – 0109 00	0	WP 0184 00 – 0185 00	1
WP 0028 00 (Deleted)	2	WP 0109 01 (Added)	5	WP 0186 00 – 0191 00	0
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WP 0032 00 (Deleted)	5	WP 0131 00 (Deleted)	5	WP 0194 00	1
WP 0033 00 – 0036 00	0	WP 0132 00 – 0136 00	5	WP 0195 00	2
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WP 0042 00	4	WP 0140 00 – 0153 00	5	WP 0198 00 – 0201 00	0
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WP 0046 00	2	WP 0155 00	5	WP 0213 00 – 0214 00	5
WP 0047 00 (Deleted)	2	Chapter 4 WP Index	2	WP 0215 00	0
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INSERT LATEST UPDATED PAGES/WORK PACKAGES. DESTROY SUPERSEDED DATA.

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WP 0222 00	0	WP 0328 00	3	Chapter 12 WP Index	0
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Chapter 7 WP Index	2	WP 0330 00	1	WP 0409 00 – 0411 00	5
WP 0227 00	1	WP 0331 00 – 0336 00	0	WP 0412 00	0
WP 0228 00	5	WP 0337 00	2	Chapter 13 WP Index	2
WP 0229 00 – 0230 00	0	WP 0338 00	0	WP 0413 00 – 0419 00	3
WP 0231 00	2	WP 0339 00 (Deleted)	2	WP 0419 01 (Added)	3
WP 0231 01 (Added)	2	WP 0340 00	2	WP 0420 00	3
WP 0232 00 – 0238 00	0	WP 0341 00	0	WP 0420 01 (Added)	2
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WP 0241 00	0	WP 0343 00 – 0345 00	0	WP 0422 01	4
WP 0242 00	4	WP 0346 00	2	WP 0423 00	2
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WP 0249 00	2	WP 0348 00	2	WP 0424 00	3
WP 0249 01 (Added)	2	WP 0349 00	1	WP 0424 01	4
WP 0250 00	2	WP 0350 00	2	WP 0425 00 – 0426 00	3
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WP 0251 00	2	WP 0352 00 – 0354 00	0	Chapter 14 WP Index	0
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Chapter 8 WP Index	5	WP 0357 00 – 0359 00	0	WP 0430 00	5
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WP 0267 00	0	WP 0365 00	4	Chapter 17 WP Index	5
WP 0268 00 – 0270 00	2	WP 0366 00	5	WP 0438 00	3
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WP 0279 00 – 0279 01	5	WP 0370 00	0	WP 0450 00 – 0454 00	0
WP 0280 00 – 0281 00	0	WP 0371 00 – 0372 00 (Deleted)	2	WP 0455 00	2
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*Zero in this column indicates an original page

Change 5

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TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

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2350-01-219-7577
(EIC AEY)

CARRIER, COMMAND POST, LIGHT TRACKED M577A3
2350-01-369-6085
(EIC AE7)

CARRIER, SMOKE GENERATOR, FULL TRACKED M1059A3
2350-01-369-6083
(EIC AFA)

CARRIER, MORTAR, 120-MM M121, SELF-PROPELLED M1064A3
2350-01-369-6082
(EIC AE8)

CARRIER, STANDARDIZED INTEGRATED COMMAND POST SYSTEM (SICPS) M1068A3
2350-01-369-6086
(EIC AFC)

CARRIER, MECHANIZED SMOKE OBSCURANT M58
2350-01-418-6654
(EIC 5CG)

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CURRENT AS OF 30 April 2008

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DELETED.....0339 00

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DELETED.....	0457 00
DELETED.....	0458 00
DELETED.....	0459 00
DELETED.....	0460 00
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REPLACE FORWARD SPALL LINER AND BRACKET (M113A3 ONLY).....	0507 00
REPLACE FORWARD UPPER RIGHT AND LEFT SIDE SPALL LINERS (M113A3 ONLY).....	0508 00
REPLACE SPALL LINER ON CARGO HATCH COVER (M113A3 ONLY).....	0509 00
REPLACE REAR UPPER HULL SPALL LINER (M113A3 ONLY).....	0510 00
REPLACE SPALL LINER ON RAMP DOOR (M113A3 ONLY).....	0511 00
REPLACE SPALL LINER ON RAMP (M113A3 ONLY).....	0512 00
RAISE/LOWER INOPERABLE/UNSAFE RAMP.....	0513 00
REPLACE RAMP SEAL.....	0514 00
REPLACE RAMP DRAIN PLUGS.....	0515 00
REPLACE RAMP BRACKET (M113A3, M577A3, AND M1068A3 ONLY).....	0516 00
REPLACE RAMP DOOR STOP BRACKET.....	0517 00
REPLACE RAMP DOOR HOOK AND SPRING.....	0518 00
REPLACE RAMP DOOR HANDLES AND SHAFT.....	0519 00
REPLACE RAMP DOOR SEAL.....	0520 00
ADJUST RAMP LOCK (M113A3 AND M1059A3 ONLY).....	0521 00
ADJUST RAMP LOCK (M577A3 AND M1068A3 ONLY).....	0522 00
ADJUST RAMP LOCK (M1064A3 ONLY).....	0523 00
REPLACE RAMP LOCK HANDLE AND ARMS (ALL EXCEPT M577A3 AND M1068A3).....	0524 00
REPLACE RAMP LOCK LEVER AND CABLE (M577A3 AND M1068A3 ONLY).....	0525 00
REPLACE RAMP LINKAGE (M113A3 AND M1059A3 ONLY).....	0526 00
REPLACE RAMP LINKAGE (M577A3 AND M1068A3 ONLY).....	0527 00
REPLACE RAMP LINKAGE (M1064A3 ONLY).....	0528 00
REPAIR HULL BY WELDING.....	0529 00
REPLACE DRIVER'S HATCH CUSHIONING PAD.....	0530 00
REPLACE DRIVER'S HATCH COVER AND EXTERIOR LOCK.....	0531 00
REPLACE DRIVER'S HATCH HOLD-OPEN HOOK AND BUMPER (M113A3, M1059A3, M1064A3, AND M58 ONLY).....	0532 00
REPLACE DRIVER'S HATCH HOLD-OPEN HOOK AND BUMPER (M577A3 AND M1068A3 ONLY).....	0533 00
REPLACE DRIVER'S HATCH INTERIOR LOCK AND LATCH.....	0534 00
REPLACE DRIVER'S HATCH VISION BLOCK LOCKS AND SEALS.....	0535 00
REPLACE DRIVER'S HATCH AN/VVS-2 DRIVER'S NIGHT VISION GUARD (ALL EXCEPT M58).....	0536 00
REPLACE DRIVER'S HATCH NIGHT VISION GUARD (M58 ONLY).....	0536 01
REPLACE AN/VVS-2 DRIVER'S NIGHT VISION MOUNT (ALL EXCEPT M58).....	0537 00
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DELETED.....	0538 00

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REPLACE FLOOR PLATES (M113A3 AND M577A3 ONLY).....	.0539 00
DELETED.....	.0540 00
DELETED.....	.0541 00
REPLACE FLOOR PLATES (M1059A3 ONLY).....	.0542 00
REPLACE FLOOR PLATES(M1064A3 ONLY).....	.0543 00
REPLACE COMPARTMENT FLOOR PLATES (M1068A3 ONLY).....	.0544 00
REPLACE FLOOR PLATES (M58 ONLY).....	.0545 00
REPLACE PERSONNEL SEATS, CUSHIONS, AND BELTS (M113A3 ONLY).....	.0546 00
REPLACE PERSONNEL SEATS, CUSHIONS, AND BELTS (M577A3 ONLY).....	.0547 00
DELETED.....	.0548 00
REPLACE PERSONNEL SEATS, BACKRESTS, CUSHIONS, AND BELTS (M1059A3 ONLY).....	.0549 00
REPLACE PERSONNEL SEATS, BACKRESTS, CUSHIONS, AND BELTS (M1064A3 ONLY).....	.0550 00
REPLACE DRIVER’S SEAT ASSEMBLY.....	.0551 00
REPAIR DRIVER’S SEAT.....	.0552 00
REPLACE DRIVER’S SEAT BACK ASSEMBLY.....	.0553 00
REPAIR DRIVER’S SEAT BACK ASSEMBLY.....	.0554 00
REPLACE DRIVER’S SEAT IMPACT ABSORBER.....	.0555 00
REPLACE DRIVER’S SEAT POST ASSEMBLY.....	.0556 00
REPAIR DRIVER’S SEAT POST ASSEMBLY.....	.0557 00
REPLACE DRIVER’S FOOTREST.....	.0558 00
REPLACE/REPAIR COMMANDER’S PLATFORM (M113A3, M1059A3, M1064A3, AND M58 ONLY).....	.0559 00
REPLACE COMMANDER’S SEAT AND POST (M113A3, M1059A3, AND M58 ONLY).....	.0560 00
REPLACE COMMANDER’S SEAT AND POST (M1064A3 ONLY).....	.0561 00
REPAIR COMMANDER’S SEAT (M113A3, M1059A3, M1064A3, AND M58 ONLY).....	.0562 00
REPLACE COMMANDER’S JUMP SEAT (M113A3 ONLY).....	.0563 00
REPLACE/REPAIR COMMANDER’S PLATFORM AND POST (M577A3 AND M1068A3 ONLY).....	.0564 00
DELETED.....	.0565 00
REPLACE/REPAIR COMMANDER’S SEAT (M1068A3 ONLY).....	.0566 00
REPLACE/REPAIR OPERATOR’S SEAT (M1059A3 ONLY).....	.0567 00
REPLACE/REPAIR RADIO OPERATOR’S SEAT (M1068A3 AND M58).....	.0568 00
REPLACE WEBBING STRAPS.....	.0569 00
REPLACE CUSHIONING PADS.....	.0570 00
REPLACE TOOL BOX LOOPS.....	.0571 00
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REPLACE T150 TRACK SHOE STOWAGE BRACKET.....	0575 01
REPLACE ANTENNA COVERS.....	0576 00
REPLACE LEFT BULKHEAD RADIO STOWAGE RACKS (M577A3 AND M1068A3 ONLY).....	0577 00
REPLACE LEFT TABLE (M577A3 ONLY).....	0578 00
REPLACE RIGHT FRONT RADIO STOWAGE RACK (M577A3 ONLY).....	0579 00
REPLACE MAP BOARD (M577A3 ONLY).....	0580 00
REPLACE RIGHT FORWARD TABLE (M577A3 ONLY).....	0581 00
REPLACE RIGHT REARWARD TABLE (M577A3 ONLY).....	0582 00
DELETED.....	0583 00
DELETED.....	0584 00
DELETED.....	0585 00
REPLACE/REPAIR RAMP VISION PORT AND SHIELD (M58 ONLY).....	0586 00
DELETED.....	0587 00
DELETED.....	0588 00
DELETED.....	0589 00
DELETED.....	0590 00
DELETED.....	0591 00
DELETED.....	0592 00
DELETED.....	0593 00
DELETED.....	0594 00
DELETED.....	0595 00
DELETED.....	0596 00
DELETED.....	0597 00
DELETED.....	0598 00
DELETED.....	0599 00
DELETED.....	0600 00
DELETED.....	0601 00
REPLACE ANTENNA SUPPORT (M58 ONLY).....	0602 00
REPLACE CABLE REEL HOLDER ASSEMBLY (M1064A3 ONLY).....	0603 00
REPAIR CABLE REEL HOLDER ASSEMBLY(M1064A3 ONLY).....	0604 00
DELETED.....	0605 00
REPLACE HORIZONTAL AMMUNITION RACK (M1064A3 ONLY)	0606 00
REPAIR HORIZONTAL AMMUNITION RACK (M1064A3 ONLY).....	0607 00
REPLACE VERTICAL AMMUNITION RACK (M1064A3 ONLY).....	0608 00
REPLACE RADIO STOWAGE RACK (M1064A3 ONLY).....	0609 00
REPLACE GRENADE STOWAGE BOX (M1064A3 ONLY).....	0610 00
REPLACE PERISCOPE STOWAGE BOX (M1064A3 ONLY).....	0611 00
REPLACE RIFLE RACK (M1064A3 ONLY).....	0612 00
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REPLACE LEFT SIDE RACK BASE (M1068A3 ONLY).....	0616 00
REPLACE PERSONNEL HEATER CONTROL BOX AND INTERCOM BOX BRACKET (M1068A3 ONLY).....	0617 00
REPLACE/REPAIR MAP BOARD (M1068A3 ONLY).....	0618 00
REPLACE MAP STORAGE BOX (M1068A3 ONLY).....	0619 00
REPAIR MAP STORAGE BOX (M1068A3 ONLY).....	0620 00
REPLACE RIGHT SIDE SHELF ASSEMBLY (M1068A3 ONLY).....	0621 00
REPLACE ALTERNATE RIGHT SIDE SHELF ASSEMBLY (M1068A3 ONLY).....	0621 01
REPLACE RIGHT SIDE RACK BASE (M1068A3 ONLY).....	0622 00
REPLACE RIGHT SIDE BASE EXTENSION (M1068A3 ONLY).....	0623 00
REPLACE RIGHT SIDE BASE EXTENSION SUPPORTS (M1068A3 ONLY).....	0624 00
REPLACE/REPAIR ANTENNA MAST BRACKET ASSEMBLY, TAILLIGHT WIRING HARNESS, AND BRACKET (M1068A3 ONLY).....	0625 00
REPLACE REAR EXTERNAL STOWAGE FRAME (M1068A3 ONLY).....	0626 00
REPLACE STOWAGE BRACKETS FOR W1, W2, AND NATO SLAVE CABLES (M1068A3 AND M577A3).....	0626 01

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REPLACE FRONT BILGE PUMP AND STRAINER.....	0632 00
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DELETED.....	0639 00
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DELETED.....	0650 00
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REPLACE WIRE ROPE AND PULLEYS (M1064A3 ONLY).....	0658 00
REPLACE RAMP CONTROL VALVE (WITH EXTERNAL RELIEF VALVE) AND FITTINGS.....	0659 00
REPLACE RAMP CONTROL VALVE, EXTERNAL RELIEF VALVE, AND FITTINGS WITH RAMP CONTROL VALVE (INTERNAL RELIEF VALVE).....	0660 00
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REPLACE FUEL SHUT-OFF VALVE ASSEMBLY (M113A3, M1059A3, AND M58 ONLY).....	0684 00
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REPLACE PERSONNEL HEATER FUEL FILTER, HOSES, AND FITTINGS (M1064A3 ONLY).....	0688 00
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DELETED.....	0693 00
REPLACE FUEL PUMP HOSE TO HEATER FUEL SHUTOFF VALVE (M1064A3 ONLY).....	0694 00
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REPLACE PERSONNEL HEATER FUEL FILTER/BRACKET (M113A3, M1059A3, AND M58 ONLY).....	0698 00
DELETED.....	0699 00
REPLACE PERSONNEL HEATER FUEL FILTER, HOSE, TUBE, AND FITTINGS (M577A3 AND M1068A3 ONLY).....	0700 00
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DELETED.....0748 00

DELETED.....0749 00

DELETED.....0750 00

DELETED.....0751 00

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REPLACE FOG OIL TANK MODULE (M1059A3 ONLY).....0753 00

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REPLACE SIGNAL PATCH PANEL BOX A10 (M1068A3 ONLY).....	0816 00
REPLACE EXTERNAL COMMUNICATION BOX A11 (M1068A3 ONLY).....	0817 00
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HOW TO USE THIS MANUAL

HOW TO USE THIS MANUAL

This manual tells you how to perform unit maintenance for the M113A3, M577A3, M1059A3, M1064A3, M58, and M1068A3 carriers.

Before starting a task or procedure, make sure you have read this HOW TO USE section and the General Maintenance Procedures Work Package.

WHAT'S IN THE MANUAL — FRONT TO BACK

This TM is divided into chapters and front and rear matter. The chapters are further divided into Work Packages (WPs) for ease of use.

The WARNING SUMMARY section provides safety and first aid information. This section includes general warnings not found in the TM text and a list of the most important detailed warnings extracted from the WPs. All of these warnings cover hazards that could kill or injure personnel.

The TABLE OF CONTENTS lists the WPs in each chapter.

CHAPTER 1 covers General Information, Equipment Description and Data, Theory of Operation, and Repair Parts, Special Tools, TMDE, and Support Equipment. The Equipment Description WP gives a brief description of major parts and features of the vehicle. The Theory of Operation WP provides information that will help you understand how the vehicle components work.

CHAPTER 2 contains the troubleshooting WPs, which are used to find the cause of vehicle malfunctions.

CHAPTER 3 includes the Preventive Maintenance Checks and Services (PMCS) and other maintenance WPs. These WPs contain all the maintenance procedures authorized at the unit level.

CHAPTER 31 provides supporting information for the TM. It includes the following WPs:

The REFERENCES WP lists references to be used by personnel in operating and maintaining the carrier. These references include technical manuals and other publications.

The MAINTENANCE ALLOCATION CHART (MAC) WP contains a listing for the hull.

The EXPENDABLE/DURABLE SUPPLIES AND MATERIALS WP lists expendable supplies and materials used to maintain or repair the carrier.

The COMMON TOOLS AND SUPPLEMENTS AND SPECIAL TOOLS/FIXTURES WP lists the common tools, supplements, and special tools used to maintain or repair the carrier.

The FABRICATED TOOLS WP lists fabricated tools used to maintain or repair the carrier.

The INDEX is an alphabetical listing of all the major controls, procedures, indicators, systems, and subsystems covered in this manual. Each entry is cross-referenced to the WP number and page number.

ELECTRICAL WIRING DIAGRAMS for each carrier are at the end of the manual.

DA FORM 2028 is used to report errors and to recommend improvements for procedures in this manual. Three blank DA Forms 2028 are in the back of this manual. A sample is provided to show you how to fill out the DA Form 2028.

The back cover includes a METRIC CONVERSION CHART that can be used to convert U.S. customary measurements to their metric equivalents. Measurements in this manual are given in U.S. customary unit with metric units in parentheses.

USING YOUR MANUAL ON THE JOB

The best way to learn about this manual is to practice using it. Knowing how to use this manual will save both time and energy.

HOW TO USE THE WORK PACKAGES

How to find the WP you need

Pick a key word from the vehicle part or system to be used. Look in the INDEX for this key word or the name of the action you will perform. Turn to the WP and page indicated.

The INDEX lists each WP under one or more headings. For example, the WP titled REPLACE TOWING PINTLE could be found under the two headings "Pintle," and "Towing."

HOW TO USE THIS MANUAL (cont)

How to read the WP

Pay attention to all **WARNINGS**, **CAUTIONS**, and **NOTES**. These can appear in all types of procedures. They help you avoid harm to yourself, other personnel, and equipment. They also tell you things you should know about the procedure.

Before you start a procedure, get all the tools, supplies, and personnel you need to do the procedure. These items will be listed in the **INITIAL SETUP** of the WP.

Start with Step 1 and do each step in the order given. Numbered primary steps tell you **WHAT** to do. Alpha substeps tell you **HOW** to do it.

Maintenance Procedures WPs

Maintenance Procedures WPs keep the carrier in shape to operate. Maintenance Procedures are used to present maintenance instructions. Each maintenance procedure details steps which you need to perform. If the vehicle and parts need maintenance that is not included in any procedure in the manual, notify your supervisor.

Read the **INITIAL SETUP** section carefully before you start any procedure. Get the tools and supplies listed and the personnel needed. Be sure the equipment is in the condition required.

Read all of the WP before starting. Follow the steps in the order given.

FOLLOW-THROUGH STEPS tell you what to do after the maintenance task is done. The words **END OF TASK** will tell you when you have finished the procedure.

Troubleshooting WPs

Troubleshooting WPs help you locate faulty parts. They direct you to the maintenance procedure to correct these faults. Chapter 2, Troubleshooting contains detailed information on how to perform troubleshooting procedures. Read **HOW TO USE TROUBLESHOOTING WP (WP 0005 00)** before performing the troubleshooting procedures in the chapter.

Preventive Maintenance Checks and Services (PMCS) WP

Preventive maintenance is required to keep your carrier in good running condition. The PMCS procedures for unit maintenance are performed on a periodic basis.

There are two types of PMCS for the vehicle, as follows:

The **SEMI-ANNUAL PMCS** must be done every 6 months or every 1,500 miles.

The **ANNUAL PMCS** must be done annually.

If anything seems wrong with the vehicle systems and you cannot fix it yourself, notify unit maintenance. Common things to watch for are loose bolts or damaged welds. Watch for worn insulation, loose clamps, and loose connectors when checking wiring harnesses.

DEFINITION OF WP TERMS

Warnings, Cautions, And Notes

Pay attention to all warnings and cautions within the WP. Ignoring a warning could cause death or injury to yourself or other personnel. Ignoring a caution could cause damage to equipment. Notes contain facts to make the procedure easier. **WARNINGS**, **CAUTIONS**, and **NOTES** always appear just above the step to which they apply.

WARNINGS	Call attention to things that could kill or injure personnel. Warnings are also listed in the Warning Summary section (page a).
CAUTIONS	Call attention to actions or materials that could damage equipment.
NOTES	Contain important facts to make the procedure easier.

HOW TO USE THIS MANUAL (cont)

Helper

Helpers are needed in procedures that require more than one person. A helper may be needed to help lift objects or act as an outside observer.

If a helper is needed to perform a procedure, the INITIAL SETUP will list “Helper (H)” under the PERSONNEL REQUIRED heading.

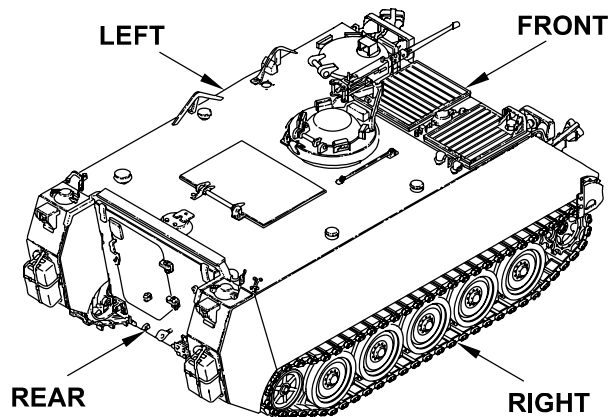
If a helper assists with a step or substep, the step or substep will include: “Have helper assist.”

If a helper performs the action alone, the step will start with “(H):.”

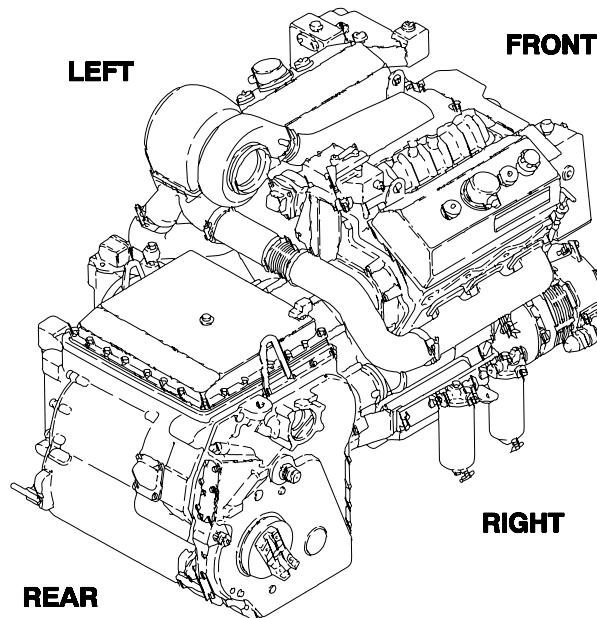
Locational Terms

The terms “front,” “rear,” “left,” and “right” are used to indicate where items are located on the vehicle. The point of reference for these terms is different for *Carrier* items and *Power Unit* items. (Carrier items are items which are not on the power unit. Power unit items are items on the engine or transmission.)

If you are working with carrier items, use this point of reference. Think of the location as if you were sitting in the driver’s seat looking out the hatch.



If you are working with power unit items, use this point of reference. Think of the location as if you were standing at the transmission end of the power unit and facing the flywheel. This rule applies whether the power unit is IN or OUT of the carrier.



HOW TO USE THIS MANUAL (cont)

REFERENCES

References within a procedure refer to a different manual or to another procedure in the same manual. They are found in the INITIAL SETUP and in the FOLLOW-THROUGH steps. For example,

MASTER SWITCH OFF. See TM 9-2350-277-10.

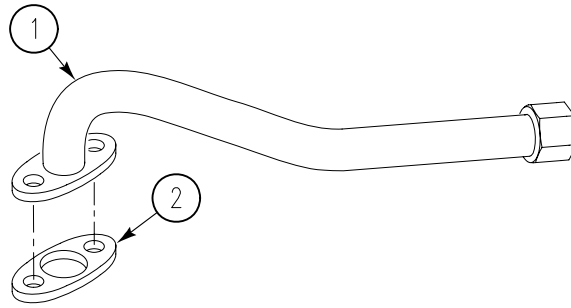
Battery ground lead disconnected (WP 0337 00 and WP 0339 00).

For all procedures, the following comments apply:

- Parts which are discarded when removed will be referred to as “new” in the procedure step when installed. Examples are: gaskets, lockwashers, some preformed packings, and some retaining rings.
- These and other new parts are listed under MATERIALS/PARTS in the INITIAL SETUP.

GENERAL MAINTENANCE

Cleaning, inspecting, checking for leaks, and similar procedures which apply to most procedures are found under PMCS and GENERAL MAINTENANCE INSTRUCTIONS (WP 0155 00). Use these steps to clean and inspect any part being removed, repaired, or installed. Special cleaning will be covered in the procedure step. Below is a step that would require general cleaning.



5. Remove gasket (2) from upper tube flange (1). Discard gasket.

After performing this step, you would clean the mating surface with cleaning compound and a wiping rag according to the general cleaning procedures. In other procedures, hoses or rubber hatch seals will need to be checked for leaks. Refer to PMCS and GENERAL MAINTENANCE INSTRUCTIONS (WP 0155 00) for general procedures.

HOW TO USE THIS MANUAL (cont)

HOW TO USE THE REPAIR PARTS AND SPECIAL TOOLS LIST (RPSTL) WITH THIS MANUAL

The RPSTL (TM 9-2350-277-24P) gives the National Stock Number (NSN) required to order parts used in the maintenance procedure. To use the RPSTL to identify and order a part, do the following:

1. In this manual, turn to the first page of the procedure to be performed.
2. Find Materials/Parts under INITIAL SETUP and read the part(s) that need replacement. If required, find the illustrated part in the procedure steps.
3. Go to the RPSTL and find the same illustrated part. That part will have an item number assigned to it. Look this item number up in the listing for that figure. Use the figure and item number index to find the NSN.
4. If you inspect an item and find that it is damaged, go to the RPSTL and find the SMR code for the item. If the SMR code does not authorize you to repair the item, reassemble it and send it to the authorized level of maintenance.
5. The usable on code in the RPSTL appears in the lower left corner of the Description column heading. Usable on codes are shown as 'UOC.... ...' in the Description column (justified left) on the first line following the item description/nomenclature. Uncoded items are applicable to all models. Identification of the usable on codes in the RPSTL are:

Table 1. RPSTL Usable On Codes

Code	Used on
APC	M113A3 Carrier, Personnel
AP5	M577A3 Carrier, Command Post
AP2	M1064A3 Carrier, 120 mm Mortar
AP6	M1059A3 Carrier, Smoke Generator
AP3	M1068A3 Carrier, Standardized Integrated Command Post System (SICPS)
AP8	M58 Carrier, Mechanized Smoke Obscurant

CHAPTER 1

UNIT INTRODUCTORY INFORMATION WITH THEORY OF OPERATION

WORK PACKAGE INDEX

<u>Title</u>	<u>Sequence No.</u>
GENERAL INFORMATION.....	.0001 00
EQUIPMENT DESCRIPTION.....	.0002 00
THEORY OF OPERATION.....	.0003 00
REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT.....	.0004 00

GENERAL INFORMATION

0001 00

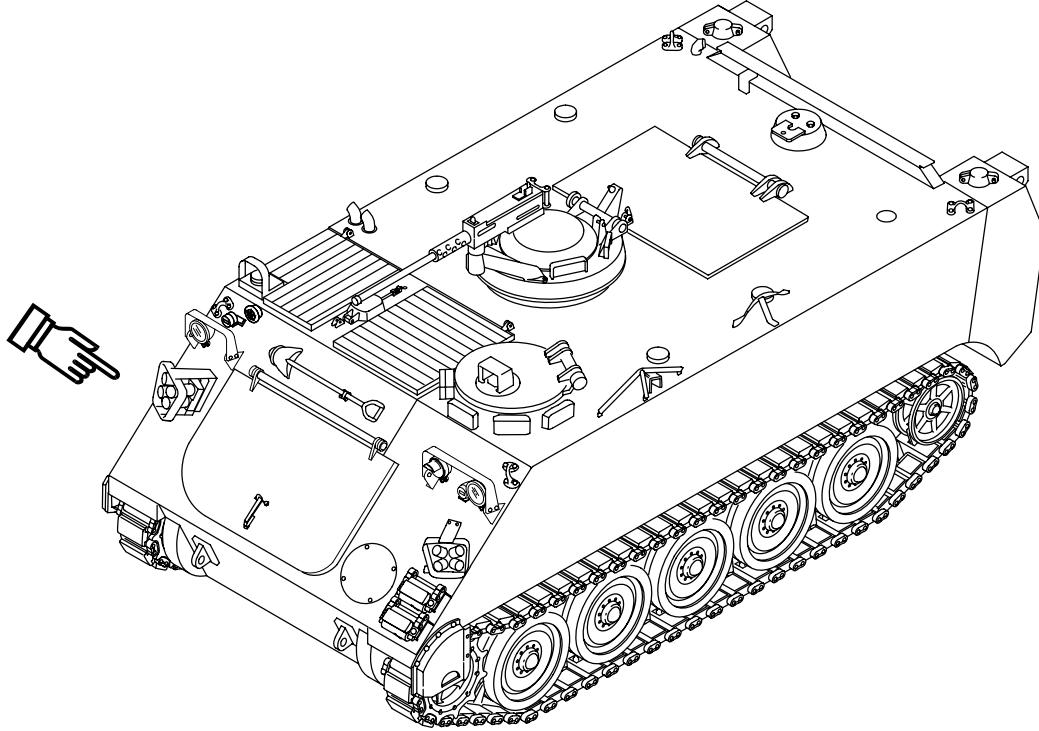
SCOPE

Type of Manual: Unit Maintenance

Equipment Model Number, Name, and Purpose:

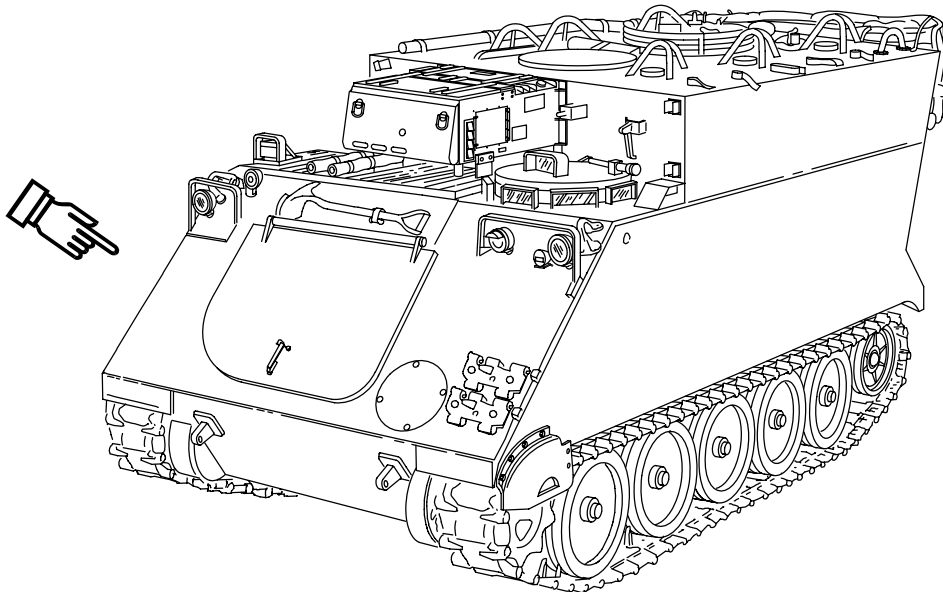
M113A3 – Armored Full Tracked Personnel Carrier

Purpose: Transportation and positioning of combat troops and supplies.



M577A3 – Light Tracked Command Post Carrier

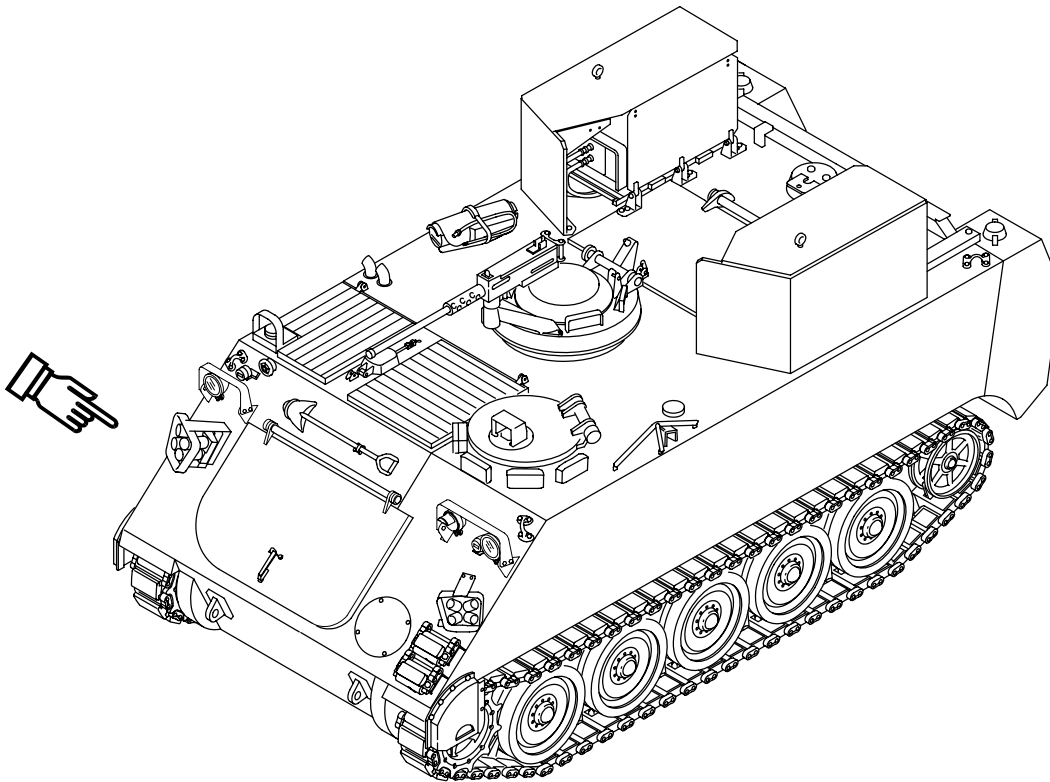
Purpose: Provides protection and mobility for field commanders in a tactical environment.



M1059A3 – Full Tracked Smoke Generator Carrier

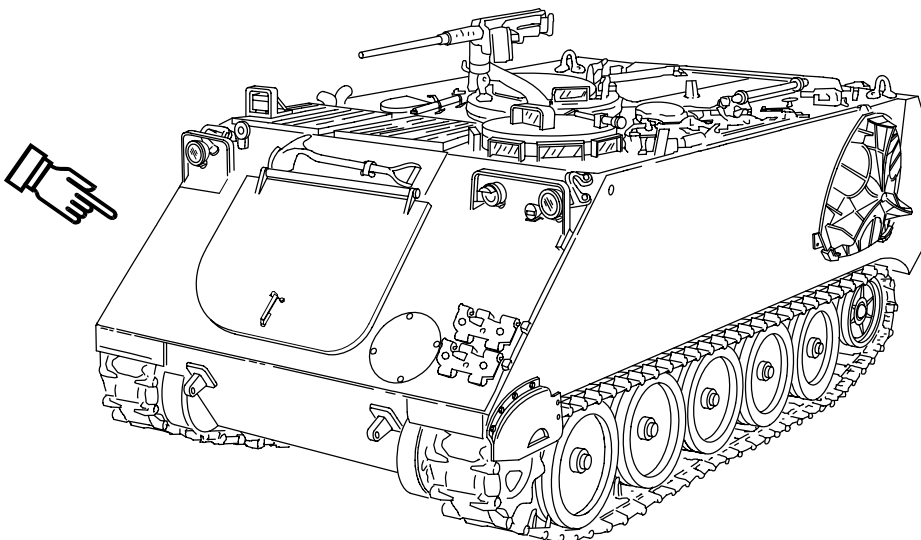
Purpose: Designed to generate a smoke screen in the battlefield environment.

Other Applicable Manuals: See TM 3-1040-279-12&P for operator's instructions, unit maintenance, and repair parts for smoke generator set M157A2.

**M1064A3 – Self-propelled 120-mm M121 Mortar Carrier**

Purpose: Provides mobility for the 4.7-inch (120-mm) mortar M121 or M120. The M121 can be fired from a turntable mounted in the carrier. The M120 can be fired from a portable mount off the carrier.

Other Applicable Manuals: See TM 9-1015-250-23&P for unit and DS maintenance and repair parts for the 4.7-inch (120-mm) mortar M121 or M120.

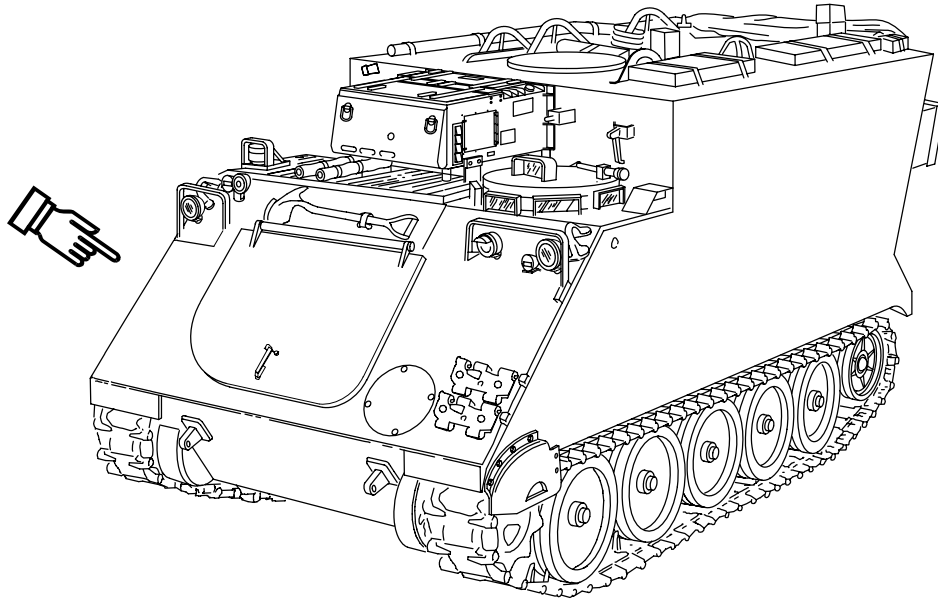


M1068A3 – Standardized Integrated Command Post System (SICPS) Carrier

Purpose: Designed as a command post and field office to support the various configurations and installation layouts of the Army Tactical Command and Control System (ATCCS) and provide protection for field commanders in a tactical environment.

Other Applicable Manuals: See TM 11-7010-256-12&P for operator's instructions, unit maintenance, and repair parts for SICPS equipment.

See TM 10-8340-243-13&P for operator's instructions, unit and DS maintenance, and repair parts for the Modular Command Post System (MCPS) tent and related parts.

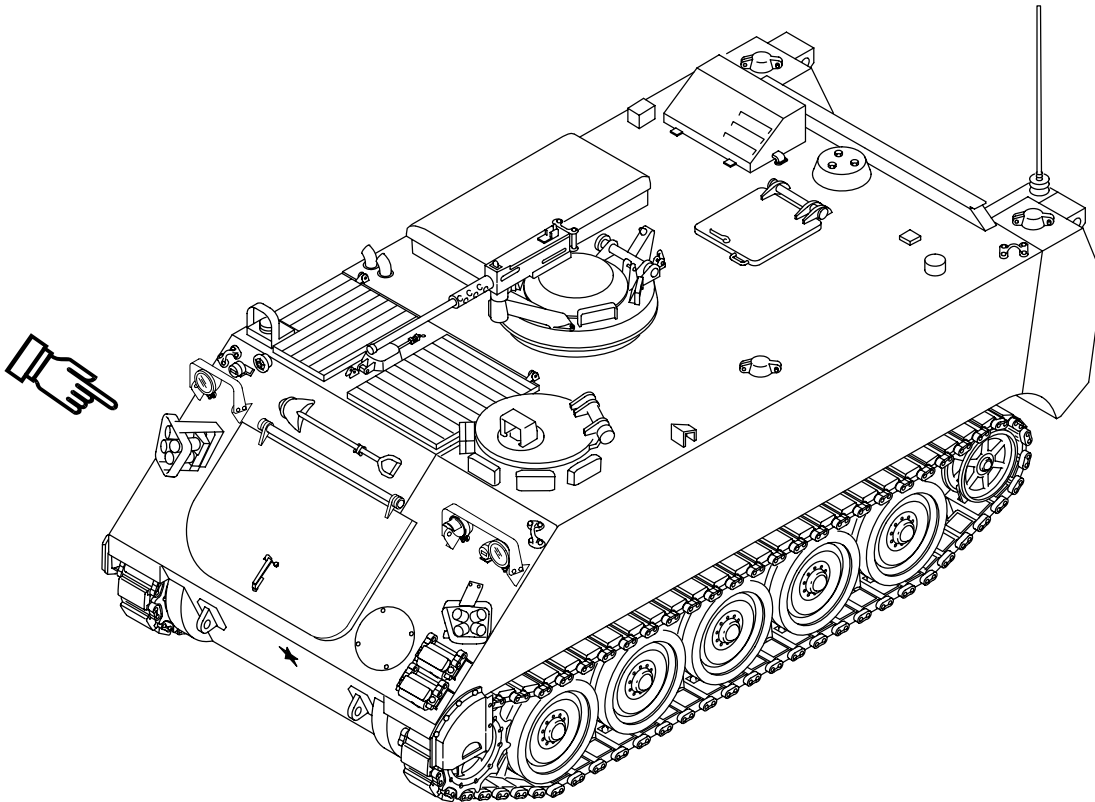


M58 – Mechanized Smoke Obscurant Carrier

Purpose: Designed to provide large area smoke screens in support of various tactical situations. Smoke can be generated in a static position or on the move.

Other Applicable Manuals: See TM 3-1040-285-10 for operator's instructions for the mechanized smoke obscurant system smoke generator.

See TM 3-1040-285-20 for unit maintenance for the mechanized smoke obscurant system smoke generator.



MAINTENANCE FORMS, RECORDS, AND REPORTS

Department of the Army forms and procedures used for equipment maintenance will be those prescribed by DA PAM 750-8, Functional User’s Manual for the Army Maintenance Management System (TAMMS).

REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR)

If your carrier needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don’t like about your equipment. Let us know why you don’t like the design or performance. Tell us why a procedure is hard to perform. Put your ideas on an SF 368 (Quality Deficiency Report). Mail it to us at: Commander, US Army Tank-automotive Armaments Command, ATTN: AMSTA-TR-QCL, Warren, MI 48397-5000. We will send you a reply.

CORROSION PREVENTION AND CONTROL (CPC)

Corrosion Prevention and Control (CPC) of Army materiel is a continuing concern. It is important that any corrosion problems with this item be reported so that the problem can be corrected and improvements can be made to prevent the problem in future items.

Corrosion specifically occurs with metals. It is an electrochemical process that causes the degradation of metals. It is commonly caused by exposure to moisture, acids, bases, or salts. An example is the rusting of iron. Corrosion damage in metals can be seen, depending on the metal, as tarnishing, pitting, fogging, surface residue, and/or cracking.

Plastics, composites, and rubbers can also degrade. Degradation is caused by thermal (heat), oxidation (oxygen), solvation (solvents), or photolytic (light, typically UV) processes. The most common exposures are excessive heat or light. Damage from these processes will appear as cracking, softening, swelling, and/or breaking.

SF Form 368, Product Quality Deficiency Report should be submitted to the address specified in DA PAM 750-8, Functional User’s Manual for the Army Maintenance Management System (TAMMS).

DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE

See the following technical manuals for information on destruction of Army materiel:

- TM 750-244-2
- TM 43-0002-33
- TM 750-244-6
- TM 750-244-7

PREPARATION FOR STORAGE OR SHIPMENT

For information about administrative storage or shipment of the carriers, see the following documents:

Specification	Applicable Carriers
MIL-DTL-45360	M113A3, M1064A3, M1059A3, M58
ATPD 2227	M577A3 & M1068A3

CAUTION

To avoid damage to commander’s interface (CI) keyboard cable connector, disconnect cable and install dust protective cap prior to placement of CI into carrying case.

For information about storage or shipment for the Mortar Fire Control System (MFCS), follow unit standard operating procedures (SOP).

NOMENCLATURE CROSS-REFERENCE

This listing includes nomenclature cross references used in this manual.

Adapter	Nipple, pipe, union
Battery clamp	Battery terminal adapter
Battery clamp	Terminal lug

GENERAL INFORMATION — Continued

0001 00

Bilge pump	Rotary pump
Breather	Air filter intake
Bulb	Incandescent lamp
Coolant gauge	Temperature indicator
Detector	Liquid transmitter
Dipstick	Liquid level gauge rod
Drain plug	Pipe plug
Engine oil filter	Fluid pressure filter
Engine oil gauge	Dial pressure gauge
Exhaust collector	Exhaust connection
Fastener	Toggle pin
Fire bottle	Compression gas cylinder
Fluid level detector	Liquid transmitter
Fuel control cable	Fuel control
Fuel filter	Fluid filter
Fuel gauge	Liquid quantity gauge
Gear box	Mechanical housing
Grease fitting	Lubrication fitting
Hand brake	Parking brake lever
Hatch	Hatch cover
Hinge pin	Headless straight pin
Hinge pin	Machine bolt
Horn switch	Push switch
Hub	Support
Hydraulic power unit	Ramp power unit
Indicator light	Indicator lamp
Inlet grill	Intake grill
Jack	Receptacle
Jamnut	Hexagonal nut
Key washers	Locking plates
Link	Plain rod bearing
Locknut	Self-locking nut
Lockscrew	Self-locking bolt
Parking brake lever	Manual control lever
Plug	Connector
Propeller shaft	Flexible drive shaft
Quick disconnect	Quick coupling half
Road wheel	Solid rubber wheel
Rod	Connecting link

Screen	Metal grill
Screw	Machine bolt
Shim	Spacer
Shim pack	Spacer assortment
Splined shaft	Output carrier
Starter switch	Interlock switch
Stoptlight	Taillight
Stowage box	Vehicular accessory box
Tie strap	Electric tiedown strap
Switch	Circuit breaker
Throttle control cable	Throttle control
Towing pintle	Pintle hook latch
Turn signal assembly	Vehicle directional light
Universal joint	Universal joint spider
VSFD	Variable speed fan drive
VSFD	Cooling system pump (old configuration)

LIST OF ABBREVIATIONS / ACRONYMS

Many abbreviations are used in this manual. They are listed below. Learn what each one means, it will make your job easier.

AC	Alternating Current
AOAP	Army Oil Analysis Program
APU	Auxiliary Power Unit
ATCCS	Army Tactical Command and Control System
BATT	Battery
BO	Blackout
BRT	Bright
CARC	Chemical Agent Resistant Coating
CB	Circuit Breaker
CI	Commander's Interface
CO2	Carbon Dioxide
DAGR	Defense Advanced GPS Receiver
DC	Direct Current
DD	Driver's Display
DNV	Driver's Night Vision (AN/VVS-2)
DVE	Driver's Vision Enhancer (AN/VAS-5)
EIR	Equipment Improvement Recommendation
FDC	Fire Direction Center
FRH	Fire Resistant Hydraulic Fluid
FOV	Family of Vehicles
GAA	Grease, Automotive and Artillery

GD	Gunner's Display
GEN	Generator
IN	Inch
IN-LB	Inch Pound
IR	Infrared
LB	Pound
LB-FT	Pound Feet
MCPS	Modular Command Post System
MFCS	Mortar Fire Control System
MPH	Miles Per Hour
MSD/ICE	Maintenance Support Device Internal Combustion Engine
MTOE	Modified Table of Organization and Equipment
NBC	Nuclear, Biological, and Chemical
OC	On-Condition
PD	Pointing Device
PMCS	Preventive Maintenance Checks and Services
PSI	Pounds per Square Inch
RPM	Revolutions Per Minute
RPSTL	Repair Parts Special Tools List
SCIPS	Standardized Integrated Command Post System
TAMMS	The Army Maintenance Management System
TBD	To Be Determined
TM	Technical Manual
TRANS	Transmission
V	Volt
VSFD	Variable Speed Fan Drive
WP	Work Package

Metric equivalents are used throughout this manual. Metric symbols and units are:

SYMBOL	UNIT
C	Celsius
cc	cubic centimeter
cm	centimeter
j	joule
kg	kilogram
kg/min	kilogram per minute
km	kilometer
km/h	kilometer per hour

kPa	kilopascal
kw hr	kilowatt hour
l	liter
m	meter
mm	millimeter
N·m	Newton-meters

QUALITY OF MATERIAL

Material used for replacement, repair, or modification must meet the requirements of this TM. If quality of material requirements are not stated in this manual, the material must meet the requirements of the drawings, standards, specifications, or approved engineering change proposals applicable to the subject equipment.

SAFETY, CARE, AND HANDLING

Read warnings in WARNING SUMMARY.

EQUIPMENT DESCRIPTION

0002 00

CAPABILITIES AND FEATURES

For equipment characteristics, capabilities, and features, see (TM 9-2350-277-10).

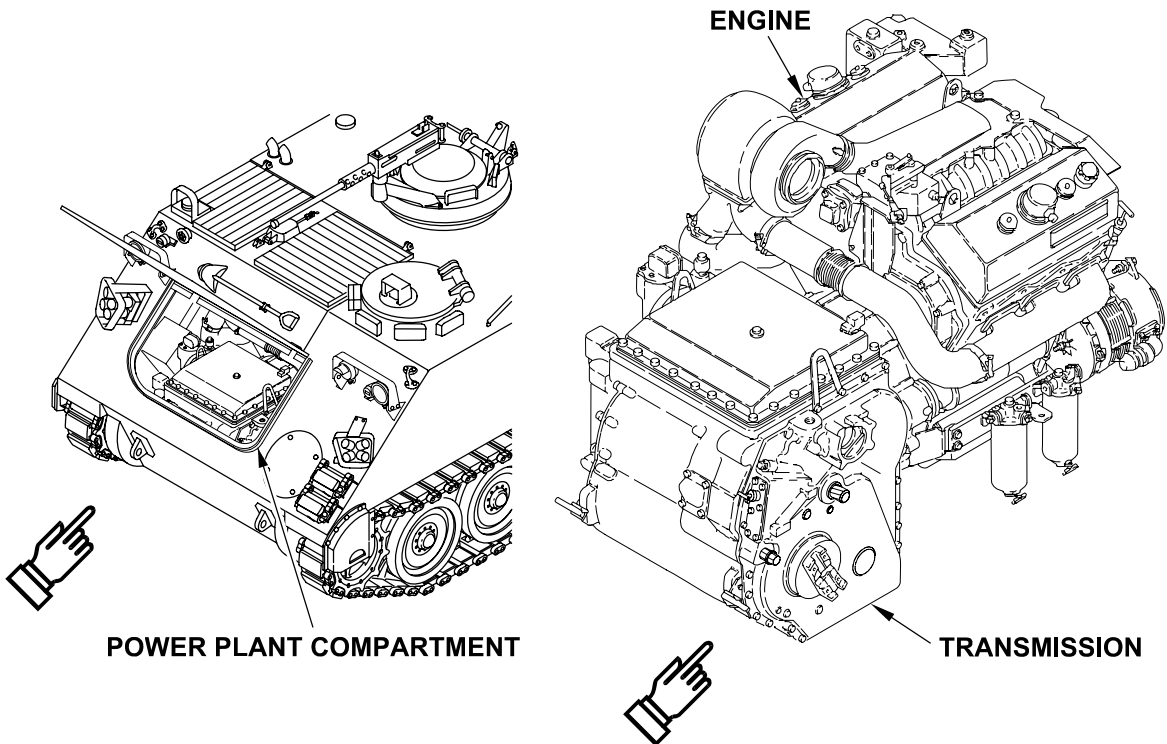
LOCATION AND DESCRIPTIONS OF MAJOR COMPONENTS

ENGINE

A six-cylinder, turbocharged diesel engine (6V53T) is located in the power plant compartment.

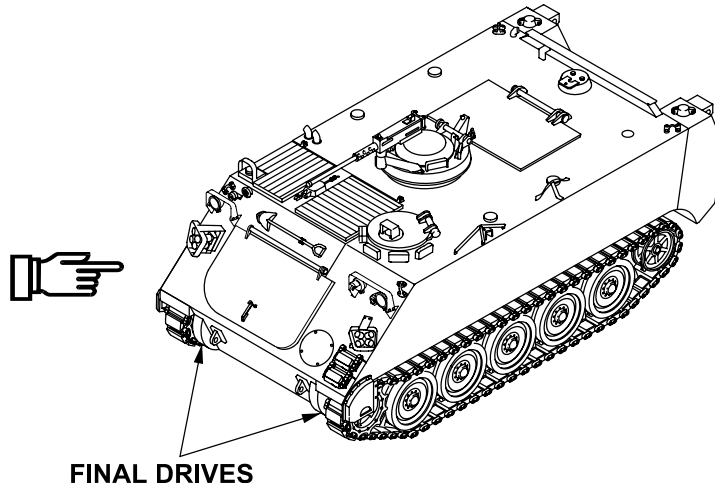
TRANSMISSION

A hydrostatic transmission (X200-4 or 4A) connects to the engine and powers the final drives.



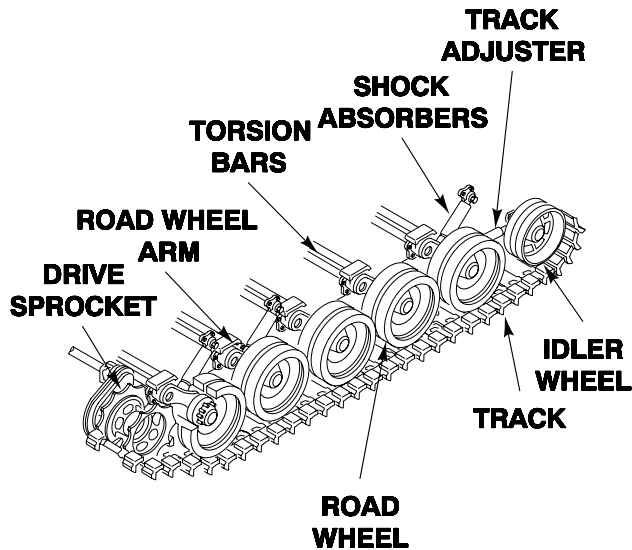
FINAL DRIVES

Final drives attach to the transmission by propeller shafts. They deliver power to drive sprockets at the front of the carrier.



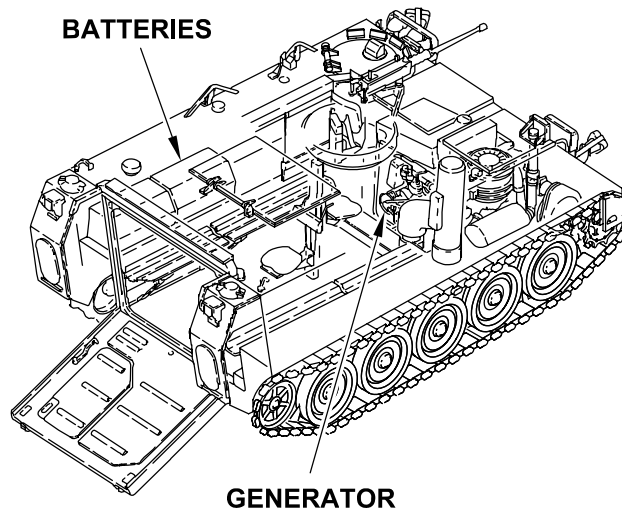
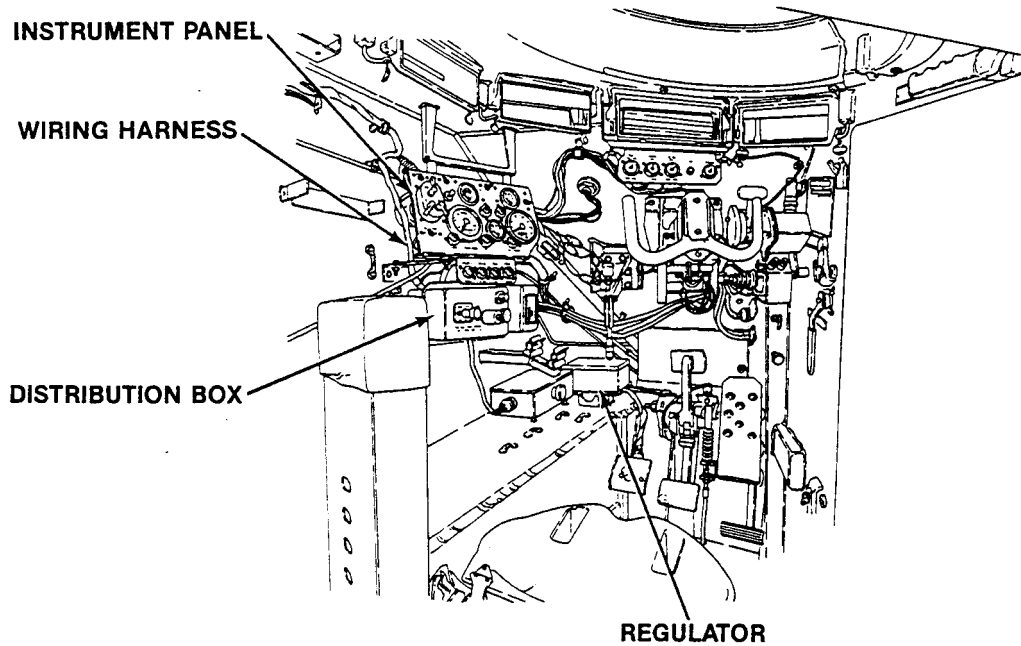
TRACKS AND SUSPENSION

Drive sprockets at the front of the carrier drive the two tracks. Torsion bars and shock absorbers attach to road wheels and provide suspension.



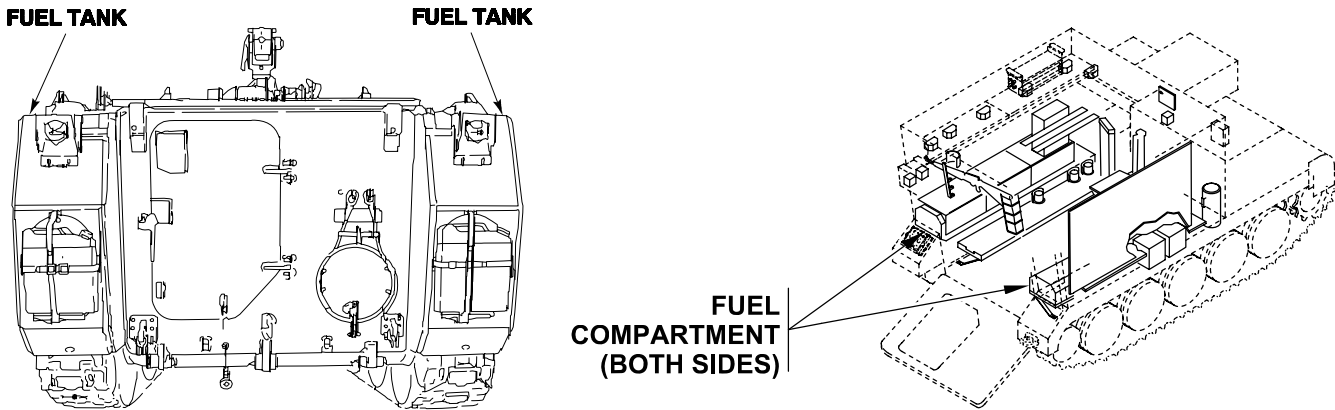
ELECTRICAL

Four 12-volt batteries supply electricity through the distribution box to the carrier. On the M113A3 and M1059A3 carriers, the four batteries are located on the left sponson. On the M577A3 and M1068A3 carriers, four batteries are located on the right sponson next to the personnel heater. On the M1064A3 carrier, two batteries are located in a drawer on the left sponson behind the driver and two batteries are located under the right personnel seat.



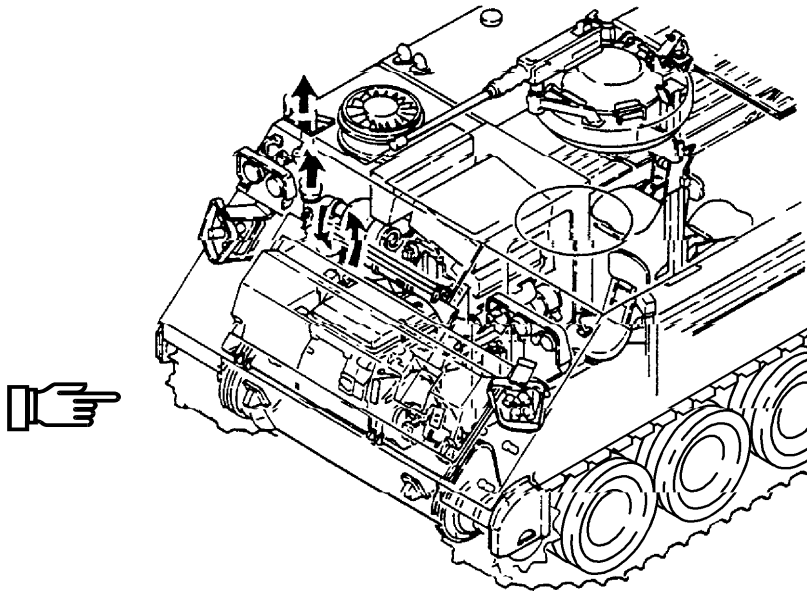
FUEL SYSTEM

The M113A3, M1059A3, and M1064A3 carriers have two external fuel tanks located at the rear of the carrier on each side of the ramp. Total capacity is 95 gallons. The M577A3 and M1068A3 carriers have two internal fuel tanks located on the rear left and right sponsons under work tables. Total capacity is 120 gallons.



EXHAUST SYSTEM

The exhaust system drives the turbocharger and carries exhaust gases through manifolds and muffler.



DIFFERENCES BETWEEN CARRIERS

This manual covers six different carriers. The major differences can be determined from the chart below. Minor differences are described under SCOPE in each chapter or section.

DIFFERENCES BETWEEN CARRIERS						
Equipment	M113A3	M577A3	M1059A3	M1064A3	M1068A3	M58
Fuel Tanks:						
External	X	—	X	X	—	X
Internal	—	X	—	—	X	—
Commander's Cupola	X	—	X	X	—	X
Cargo Hatch	X	—	X	—	—	—
Armament:						
50 Caliber Machine Gun	X	—	X	X	—	X
120-mm Mortar	—	—	—	X	—	—
Sighting Materiel:						
Periscope M17	X	X	X	X	X	X
Driver's Night Vision AN/VVS-2	X	X	X	X	X	—
AN/VAS-5 DVE	X	X	X	X	X	X
Smoke Generator	—	—	X	—	—	X
ATCCS Common Hardware	—	—	—	—	X	—
Fiber Optics	—	—	—	—	X	—
Tent/Covered Ext.	—	X	—	—	X	—
5.0 KW Auxiliary Power Unit	—	X	—	—	X	—
4.2 KW Generator Set and Cover	—	X	—	—	X	—
Standard Personnel Heater	—	X	—	—	X	—
Kits:						
Personnel Heater	X	—	X	X	—	X
Engine Coolant Heater	X	X	X	X	X	X
Artillery Communication	—	X	—	—	X	—
Capstan & Anchors	—	—	X	—	—	—
Chemical Agent Auto Alarm	X	—	—	—	—	—
Driver's Windshield	X	X	X	X	X	X
Litter	X	—	—	—	—	—
Machine Gun Armor Shield	X	—	—	X	—	—
NBC Mounting	X	X	—	X	X	X
Smoke Grenade Launcher	X	—	X	—	—	X
Mine Armor	X	—	—	—	—	—
Mortar Fire Control System (MFCS)	—	X	—	X	—	—

EQUIPMENT DESCRIPTION — Continued

0002 00

EQUIPMENT DATA

For equipment data, see (TM 9-2350-277-10).

THEORY OF OPERATION

0003 00**SCOPE**

This section describes how major systems and components of the carrier operate. An understanding of how each part functions in a system and how components relate to each other will help solve possible maintenance problems with the carrier.

POWER PLANT

The power plant consists of the diesel engine and transmission. The fuel, exhaust, cooling, starter, generator, and engine air systems are support systems for the power plant.

DIESEL ENGINE

The diesel engine is the primary source of power for the carrier. The engine converts air and diesel fuel into energy and delivers this power to the transmission.

STARTER

The engine is equipped with a heavy duty starter. The starter, with built-in solenoid, is used to crank the engine for starting.

GENERATOR

The generator is part of the carrier electrical system. It is driven directly by engine power. The generator charges the batteries in the carrier when the engine is running. A regulator mounted in the driver's compartment keeps the voltage at correct levels.

OIL SYSTEM

Oil system provides lubrication for the engine. Oil is cycled throughout the engine by a pump. The pump is located internally behind the front engine cover. An oil filter cleans the oil, and an oil cooler reduces oil temperature.

FUEL SYSTEM

Diesel fuel is stored in two fuel tanks located at the rear of the carrier. Fuel is drawn from fuel tanks by the fuel pump which pumps fuel through filters to the engine injectors. The injectors force fuel into combustion cylinders where it is mixed with air and changed into energy.

TRANSMISSION SYSTEM

The carrier uses hydromechanical transmission with hydrostatic steering. The transmission has its own oil system with filters and separately mounted oil cooler. This transmission oil system is separate from the engine oil system.

The transmission delivers power from the engine to the left and right final drives. The left and right final drives are driven by propeller shafts. The final drives deliver power to drive sprockets in the suspension system.

EXHAUST SYSTEM

Major exhaust system parts are the turbocharger, exhaust manifolds, muffler, and exhaust pipes.

The turbocharger is driven by exhaust gases from the engine. The turbocharger helps the engine develop more power and operate more efficiently. The exhaust manifolds carry the exhaust gases to the turbocharger from the engine. The muffler cuts down engine noise and allows exhaust to escape through the exhaust pipes to outside of the carrier.

COOLING SYSTEM

The cooling system cools the engine and transmission. It consists of a fan, fan drive, fan speed control assembly, radiator, coolant pump, auxiliary tank, transmission oil cooler, engine oil cooler, and thermostats. The cooling system contains

approximately 14.8 gallons of liquid coolant. The liquid coolant is cycled through the engine and transmission oil cooler by the coolant pump. This process keeps the engine and transmission temperature in a safe operation range.

As coolant flows through the engine, it absorbs heat from the engine and transmission. The heated coolant then flows to the radiator to remove coolant heat. The coolant fan pulls outside air in and through the radiator to remove heat. The fan is powered by the engine through a fan drive.

The radiator auxiliary tank acts as an overflow tank to keep the cooling system from overpressurizing. It also removes air from the engine coolant. There is a low coolant level transmitter to signal the operator if more coolant is needed.

ENGINE AIR SYSTEM

The engine air system allows air to enter the engine. The air cleaner cleans air that enters the engine. Dust is drawn out through a scavenge outlet. Air is filtered through a reusable filter element before delivery to the engine. An air filter indicator shows when the element is clogged and needs cleaning or replacing. After being filtered, the air moves through the turbocharger and into the engine cylinders.

AUXILIARY AUTOMOTIVE SYSTEM

The auxiliary automotive system includes driver controls, fuel cells, personnel heater, bilge pumps, crew ventilation system, and fire suppression system.

DRIVER CONTROLS

The driver controls regulate the engine, transmission, and steering braking systems of the carrier.

The fuel shutoff control is used to stop the supply of fuel to the engine injectors. To start the engine, the driver must open the valve. The throttle linkages are used to control the engine speed. The gear selector allows the driver to choose the proper gear for the carrier. The steering system controls the direction of the carrier. The steering control consists of a steering wheel and linkage connected to the transmission.

The brake system allows the driver to stop a moving carrier and hold the carrier in position. The braking system consists of the service brake and the parking brake. The service brakes are hydraulic and applied by pedal. The parking brake mechanically locks the transmission brakes to prevent carrier movement. Also, the system has levers, rods, shafts, and linkages connecting to the brake shaft of the transmission.

PERSONNEL HEATER

The personnel heater system provides heat inside the carrier. Major parts are the combination combustion chamber/heat exchanger, blowers, a fuel pump, and an electrical control and safety system. The heater operates using diesel fuel drawn from the fuel tanks. Fuel is delivered to the combustion chamber from the fuel pump. Outside air is drawn into the combustion chamber by one of the blowers. A blower draws air from the crew compartment into the combustion chamber. The air is warmed by heat by the combustion process and then returned to the crew compartment.

BILGE PUMPS

Two electrically driven bilge pumps remove water and other liquids from the hull. Water enters the pumps through a screened inlet. The pumps force water out of the carrier through outlet tubes. The bilge pumps are controlled by a switch on the driver's instrument panel.

HYDRAULIC SYSTEM

The ramp is raised or lowered by an hydraulic system which consists of a pump, a cylinder, a control valve, and an hydraulic tank. This system is controlled by a three position valve located near the driver. Moving the valve to either RAISE or LOWER position directs fluid to the appropriate port on the ramp cylinder.

FIRE EXTINGUISHER SYSTEM

The fire extinguisher system consists of two CO₂ (Carbon Dioxide) cylinders, one fixed and one portable. Carbon Dioxide can put out fires quickly and effectively. The fixed cylinder only extinguishes fires in the power plant compartment. It is located behind the driver and is actuated manually by a handle/knob on the cylinder or by an external handle connected to the cylinder by a cable. The portable fire extinguisher is located in the crew compartment and is manually discharged.

SUSPENSION SYSTEM

The suspension system supports the carrier and delivers engine power to the road. It allows the carrier to maneuver and be stable. Suspension system parts are the drive sprockets, tracks, idler wheels, track tension adjuster, road wheels, and support arms. Also, there are torsion bars and shock absorbers.

The drive sprockets drive the tracks. They are powered by left and right final drives from the transmission. The tracks consist of two flexible chains of track shoes. The tracks ride on the drive sprockets and are guided by idler wheels. The idler wheels can be adjusted to maintain correct track tension.

There are five pairs of road wheels per side. Track centerguides fit between each pair of road wheels. Road wheels and torsion bars are connected to support arms. The torsion bars act as springs to keep the road wheels on the ground and from hitting the bottom of the carrier.

ELECTRICAL SYSTEM

The electrical system provides power for the carrier. The system operates on wet cell batteries and includes charging, regulating and monitoring equipment. The batteries provide a normal operating 24 volts with an amperage capability of 200 amps per hour.

The batteries supply the carrier with electricity when the engine is off. All electrical power is delivered through the distribution box. Electrical power flows from the batteries through the distribution box, cables, and wiring assemblies to the electrical equipment. The hull is a ground for the electrical system.

The generator recharges the batteries and supplies electricity while the engine is running. The generator has 200 amps per hour capability.

There are several electrical subsystems within the hull. Each subsystem contains at least one wiring assembly. Major electrical subsystems and assemblies are:

Interior and Exterior Lights. Exterior lights include standard headlights, taillights/stoptlights, and blackout lights. Interior lights include domelights and panel lights.

Starting and Charging. A generator with a regulator keeps the batteries charged to operating voltage. A starter with a built-in solenoid is used to crank the engine for starting.

Ventilation and Heating. All carriers have a manual open-close ventilator located at the rear of the crew compartment. The M577A3 and M1068A3 carriers also include an electric ventilation fan controlled by a switch on the master switch panel (M577A3 and M1068A3). The personnel heater is controlled by a heater control box which provides electric power for starting and operating the heater. The control box is connected to the carrier batteries so that the heater can be operated without turning the MASTER SWITCH ON.

Bilge Pumps. Two pumps, one in the front and one in the rear of the carrier, remove any water that may have entered the carrier. Both pumps are controlled by a switch on the driver's instrument panel.

SPECIAL EQUIPMENT

For information on special purpose kits, refer to Chapter 22.

WINTERIZATION EQUIPMENT

Personnel heaters are standard equipment on M577A3, M1068A3, and M58 carriers. Since maintenance of heater components is the same for both standard heaters and kit heaters, they are only covered in one place in this manual. See Chapter 22 for maintenance of heater components.

REPAIR PARTS, SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

0004 00

COMMON TOOLS AND EQUIPMENT

For authorized common tools and equipment, refer to Modified Table of Organization and Equipment (MTOE) for your unit.

SPECIAL TOOLS, TMDE, AND SUPPORT EQUIPMENT

Special tools and support equipment are needed for unit maintenance. They are listed in Repair Parts and Special Tools List (RPSTL) TM 9-2350-277-24P. Common tools and supplements and special tools and fixtures are listed in WP 0926 00.

REPAIR PARTS

Repair parts are listed and illustrated in the Repair Parts and Special Tools List (RPSTL) TM 9-2350-277-24P, covering unit maintenance for this equipment.

CHAPTER 2
UNIT TROUBLESHOOTING PROCEDURES

WORK PACKAGE INDEX

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ENGINE FUEL SYSTEM SCHEMATIC (ALL EXCEPT M577A3 AND M1068A3).....	0009 00
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**CHAPTER 2
UNIT TROUBLESHOOTING PROCEDURES**

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**CHAPTER 2
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TRANSMISSION LOW LUBE INDICATOR COMES ON.....	.0073 00
STEERING LOCK SCHEMATIC (SOLENOID-ACTIVATED LOCK).....	.0074 00
STEERING LOCK SCHEMATIC (CABLE-ACTIVATED LOCK).....	.0075 00
SOLENOID-ACTIVATED STEERING LOCK MALFUNCTIONS.....	.0076 00
CABLE-ACTIVATED STEERING LOCK MALFUNCTIONS.....	.0077 00
BILGE PUMP SCHEMATIC.....	.0078 00
DELETED.....	.0079 00
FRONT AND/OR REAR BILGE PUMP(S) AND/OR LIGHTS DON'T WORK.....	.0080 00
RAMP SCHEMATIC.....	.0081 00
RAMP WILL NOT LOWER.....	.0082 00
RAMP OPERATION IS SLOW OR SLUGGISH.....	.0083 00
RAMP WILL NOT RAISE OR FREE FALLS.....	.0084 00
PERSONNEL HEATER SCHEMATIC.....	.0085 00
PERSONNEL HEATER MALFUNCTIONS.....	.0086 00
COOLANT HEATER SCHEMATIC.....	.0087 00
DELETED.....	.0088 00
COOLANT HEATER MALFUNCTIONS.....	.0089 00
POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY).....	.0090 00
NO AC POWER FROM TENT INTERFACE PANEL A5 (M1068A3 ONLY).....	.0091 00
NO DC POWER FROM TENT INTERFACE PANEL A5 (M1068A3 ONLY).....	.0092 00
NO POWER FROM ROADSIDE AC POWER EXTENSION BOX A6 (M1068A3 ONLY).....	.0093 00
NO POWER FROM CURBSIDE AC POWER EXTENSION BOX A7 (M1068A3 ONLY).....	.0094 00
NO POWER FROM DC POWER EXTENSION BOX A9 (ALL EXCEPT JACK J23) (M1068A3 ONLY).....	.0095 00
NO POWER FROM DC POWER EXTENSION BOX A9, JACK J23 (JTIDS) (M1068A3 ONLY).....	.0096 00
NO DC POWER TO SINGLE POINT LAN GROUND BOX A15 (M1068A3 ONLY).....	.0097 00
NO POWER FROM UPS POWER EXTENSION BOX A18 (M1068A3 ONLY).....	.0098 00
NO POWER FROM CURBSIDE UPS POWER EXTENSION BOX A19 (M1068A3 ONLY).....	.0099 00
NO AC/DC INPUT TO ATCCS UPS POWER BOX (M1068A3 ONLY).....	.0100 00
IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY).....	.0101 00
FLUORESCENT LIGHTS DO NOT OPERATE (M1068A3 ONLY).....	.0102 00
VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY).....	.0103 00
VEHICLE WILL NOT ACCEPT EXTERNAL AC POWER (M1068A3 ONLY).....	.0104 00
VEHICLE WILL NOT ACCEPT INVERTER AC POWER (M1068A3 ONLY).....	.0105 00

CHAPTER 2
UNIT TROUBLESHOOTING PROCEDURES

WORK PACKAGE INDEX (Continued)

<u>Title</u>	<u>Sequence No.</u>
NO POWER TO DC CIRCUITS (M1068A3 ONLY).....	0106 00
NO POWER TO AC CIRCUITS (M1068A3 ONLY).....	0107 00
NO DC OUTPUT FROM DC POWER SUPPLY (M1068A3 ONLY).....	0108 00
NO AC POWER FROM INVERTERS (M1068A3 ONLY).....	0109 00
INVERTER POWER-UP FAILURE (M1068A3 ONLY).....	0109 01
NO DATA OUTPUT FROM DATA PANEL A12 (M1068A3 ONLY).....	0110 00
NO LAN OUTPUT FROM DATA PANEL A12 (M1068A3 ONLY).....	0111 00
NO DATA OUTPUT FROM DATA PANEL A13 (M1068A3 ONLY).....	0112 00
NO LAN OUTPUT FROM DATA PANEL A13 (M1068A3 ONLY).....	0113 00
PHONE EXTENSION BOX A14 POST(S) INOPERATIVE (M1068A3 ONLY).....	0114 00
SPEEDOMETER MALFUNCTIONS.....	0115 00
TACHOMETER MALFUNCTIONS.....	0116 00
DRIVER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK.....	0116 01
COMMANDER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK (M58 ONLY).....	0116 02
HOOK UP/REMOVE MSD/ICE TEST SET TO DCA 6.....	0117 00
MSD/ICE TEST 10 ENGINE RPM.....	0118 00
MSD/ICE TEST 24 FUEL SUPPLY PRESSURE.....	0119 00
MSD/ICE TEST 25 FUEL RETURN PRESSURE.....	0120 00
MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP.....	0121 00
MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE.....	0122 00
MSD/ICE TEST 32 AIR BOX PRESSURE.....	0123 00
MSD/ICE TEST 67 BATTERY VOLTAGE.....	0124 00
MSD/ICE TEST 68 STARTER MOTOR VOLTAGE.....	0125 00
MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP.....	0126 00
MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE.....	0127 00
MSD/ICE TEST 71 STARTER CURRENT (AVERAGE).....	0128 00
MSD/ICE TEST 72 STARTER CURRENT (FIRST PEAK).....	0129 00
MSD/ICE TEST 73 BATTERY RESISTANCE.....	0130 00
DELETED.....	0131 00
MSD/ICE TEST 80 BATTERY CURRENT.....	0132 00
MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE.....	0133 00
MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE.....	0134 00
MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP.....	0135 00
msd/ICE SCHEMATIC.....	0136 00
DELETED.....	0137 00
DELETED.....	0138 00

**CHAPTER 2
UNIT TROUBLESHOOTING PROCEDURES**

WORK PACKAGE INDEX (Continued)

<u>Title</u>	<u>Sequence No.</u>
DELETED.....	.0139 00
MSD/ICE TEST 10, 11, 12 AND 13 DIAGNOSTIC TROUBLESHOOTING.....	.0140 00
DCA BATTERY VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	.0141 00
DCA CURRENT SHUNT DIAGNOSTIC TROUBLESHOOTING.....	.0142 00
MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	.0143 00
MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	.0144 00
MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC TROUBLESHOOTING.....	.0145 00
MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	.0146 00
MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	.0147 00
MSD/ICE TEST 68 STARTER MOTOR VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	.0148 00
MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC TROUBLESHOOTING.....	.0149 00
MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	.0150 00
MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	.0151 00
MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	.0152 00
MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC TROUBLESHOOTING.....	.0153 00

INTRODUCTION TO HOW TO USE TROUBLESHOOTING

0005 00**PURPOSE**

The purpose of unit troubleshooting is to diagnose problems which are reported to unit maintenance. You should not begin unit troubleshooting until **ALL** operator troubleshooting procedures have been performed. You will perform four actions in unit troubleshooting:

- (1) Before starting a troubleshooting task, verify that the reported problem is present.
- (2) After verifying the symptom, find the part that is causing problem.
- (3) Replace or adjust that part.
- (4) Check to make sure problem no longer exists, and that there are no other problems.

DEFINITIONS AND DESCRIPTIONS OF TROUBLESHOOTING PARTS

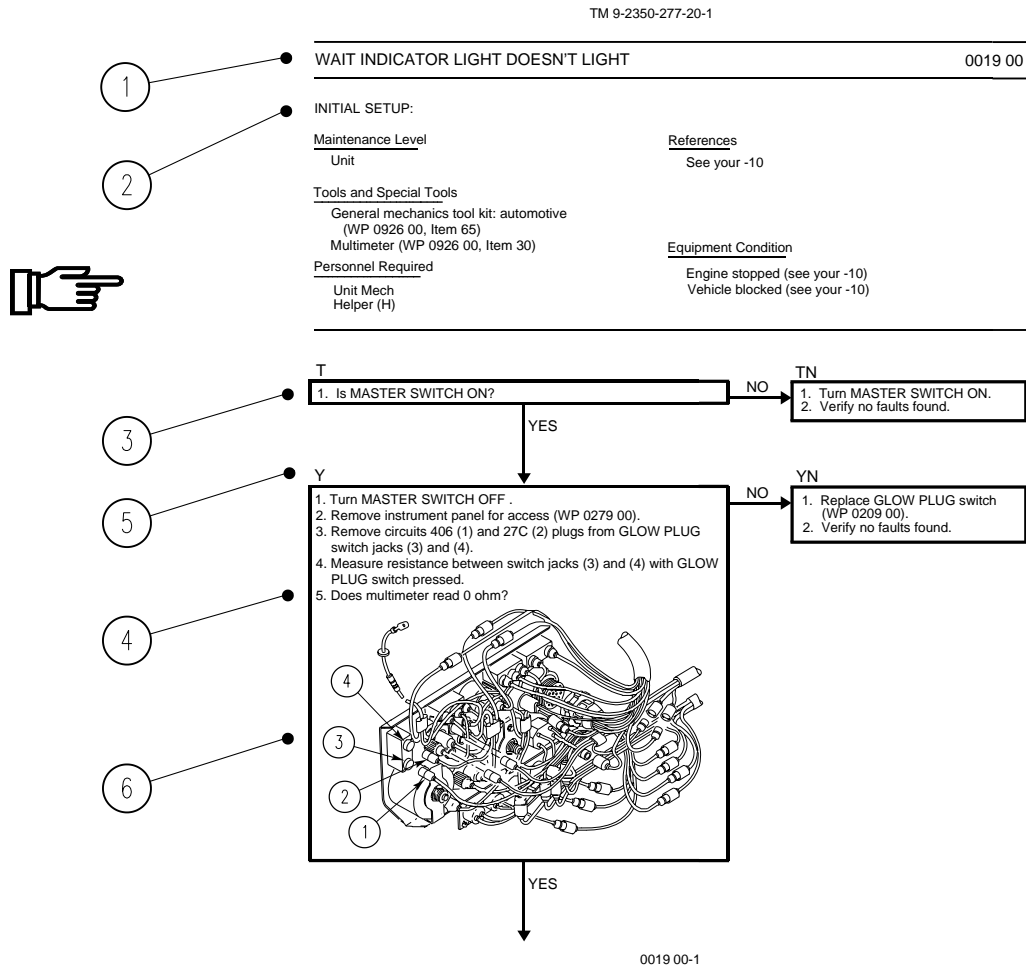
Troubleshooting tasks always have a beginning and an end. You will use task steps, test procedures, indexes, maintenance tasks, and other technical manuals to troubleshoot. Troubleshooting uses the following terms that are not used in other kinds of tasks:

- | | |
|-----------------------------------|--|
| 1. FAULT: | The part that is not operating correctly and is causing the problem. |
| 2. SYMPTOM: | The problem reported to unit maintenance. |
| 3. STE/ICE: | Diagnostic and test equipment used to troubleshoot at unit maintenance level. It is used to make measurements and find faulty parts in the carrier system. |
| 4. VERIFY NO FAULTS FOUND: | After you have completed the corrective action, you must verify that no faults exist. If the fault condition still exists, then the fault is not fixed or there is another fault. If this happens, start at the beginning of the correct/appropriate troubleshooting procedure until you find and correct all faults. Always operate the system and/or carrier to make sure that you have corrected the reported problem. If troubleshooting does not identify a faulty part, the carrier is defective beyond the level of unit maintenance. |

TROUBLESHOOTING BASICS

Troubleshooting Procedure

A troubleshooting procedure serves as a starting point for your troubleshooting work. You will branch in and out of procedures as you work to find a fault. After correcting the fault, check that the problem has been corrected. The parts of a troubleshooting procedure are given below.



Legend to Sample Above

- 1 TITLE** This is the name of the procedure that best describes your symptom.
- 2 INITIAL SETUP** This tells you the tools, materials/parts, personnel, references, and equipment conditions needed to do the procedure.
- 3 TASK STEPS** Step-by-step instructions that isolate the fault.
- 4 QUESTION** This is last step in YES blocks. The answer to this question will direct you to the next block.
- 5 BLOCK ID CODE** These codes identify YES/NO blocks for ease of referencing. When filling out 2028s, list these codes, along with titles and page numbers.
- 6 ILLUSTRATIONS** These help you locate and identify parts.

STE-ICE Test Procedure

A STE/ICE test procedure will tell you how to use the STE/ICE test equipment. You may be directed to go to a STE/ICE test procedure when performing the troubleshooting procedures. The parts of a STE/ICE test procedure are given below.

TM 9-2350-277-20-1

① **STE/ICE TEST 67 BATTERY VOLTAGE** 0124 00

THIS WORK PACKAGE COVERS:
Test (page 0124 00-1).

② **INITIAL SETUP:**

Maintenance Level

Unit

Personnel Required

Unit Mech

References

See your-10
TM 9-4910-571-12&P

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)
STE/ICE hooked up to DCA 6 (WP 0117 00)

③



④ 1. Select TEST 67.

2. Press and release TEST button.

CONDITIONS	VOLTS
Engine off/MASTER SWITCH OFF.	21 or more
Cranking engine fuel off.	17 or more
Charging 1100-1300 RPM/service lights on.	26 to 29.5

a. If display is erratic or shows 0 (v olts), go to: STE/ICE DCA Battery Voltage Diagnostic Troubleshooting (WP 0142 00).

b. If error message appears, see TM 9-4910-571-12&P.

3. Return to troubleshooting.

Legend to Sample Above

- 1 TITLE** Test number and procedure name.
- 2 INITIAL SETUP** This tells you the tools, materials/parts, personnel, references, and equipment conditions needed to do the procedure.
- 3 STE/ICE HOOK UP** Steps that tell you how to perform the HOOK UP/REMOVE STE/ICE test.
- 4 TASK STEPS** Steps that tell you how to set up and perform the test.

Before you begin, make sure you have all items in the INITIAL SETUP. Do all steps in the test procedure and then return to where you left off in troubleshooting task. Continue to follow troubleshooting task instructions to find and correct the fault.

Locating the Correct Troubleshooting Procedure

- (1) Carrier arrives at shop.
- (2) Read DA Form 2404.
- (3) Verify that the problem on DA Form 2404 exists.
- (4) Look up the carrier symptom in the Troubleshooting Fault Symptom Index (WP 0006 00) and go to that task.

Doing the Troubleshooting Procedure

- (1) Make sure you have all items in INITIAL SETUP.
- (2) Perform required action(s) in Equipment Conditions.
- (3) Complete the first block of task steps.
- (4) Refer to system schematics for system components, details, and configuration.
- (5) Answer question at the bottom of the first block.
- (6) Follow YES or NO arrows to next block.
- (7) Move from block to block. Answer questions and follow instructions. You may be directed to:
 - do further checks and tests on parts;
 - go to another manual and do tasks;
 - or go to another task in this manual.
- (8) After completing the actions called for on another page or manual, return to the point in the troubleshooting procedure where you left off.
- (9) Locate the fault in the carrier or part, and perform the corrective action.
- (10) Check to make sure the fault is corrected, and there are no new faults.
- (11) Button up by installing items listed in Equipment Conditions after finishing the troubleshooting task.

TROUBLESHOOTING SAMPLE

The following sample takes you through a typical troubleshooting procedure.

Finding the Right Troubleshooting Procedure

A carrier arrives at the shop. The DA Form 2404 shows that the engine cranks slowly. The best task match is ENGINE CRANKS SLOWLY (WP 0020 00).

TM 9-2350-277-20-1

MALFUNCTION/SYMPTOM INDEX WP 0006 00

ENGINE SYSTEM

ENGINE OVERHEATS.....	WP 0014 00
ENGINE OVERCOOLS.....	WP 0015 00
ENGINE DOESN'T CRANK.....	WP 0016 00
ENGINE DOESN'T START (COLD WEATHER ONLY).....	WP 0017 00
WAIT INDICATOR FLASHES DURING START ATTEMPTS (PREGLOW OR AFTER GLOW).....	WP 0018 00
WAIT INDICATOR DOESN'T LIGHT.....	WP 0019 00
ENGINE CRANKS SLOWLY.....	WP 0020 00
ENGINE CRANKS BUT WILL NOT START.....	WP 0021 00
ENGINE CRANKS BUT WON'T START BELOW 40 FAHRENHEIT (AIR BOX HEATER IS USED).....	WP 0022 00
ENGINE CRANKS BUT WON'T START BELOW 40 FAHRENHEIT (GLOW PLUGS ARE USED).....	WP 0023 00
ENGINE RUNS ROUGH, STALLS OR DOESN'T PUT OUT FULL POWER.....	WP 0024 00
GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR.....	WP 0025 00
ENGINE OIL LOW PRESSURE INDICATOR COMES ON.....	WP 0026 00



This is the procedure you want.

TM 9-2350-277-20-1

ENGINE CRANKS SLOWLY 0020 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your-10

Tools and Special Tools

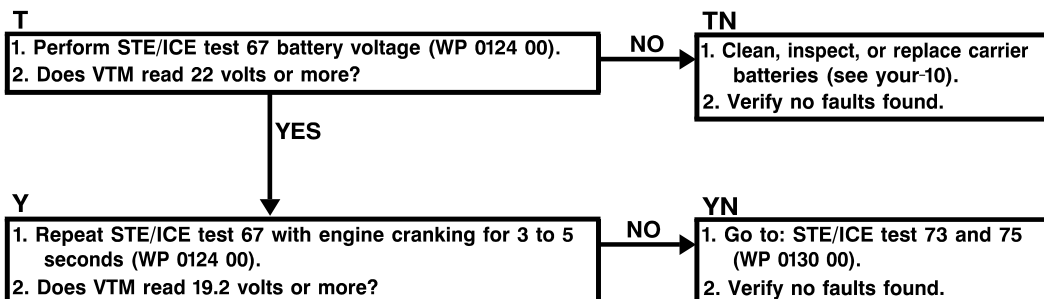
General mechanic stool kit: automotive (WP 0926 00, Item 65)
STE/ICE-Rtest set (WP 0926 00, Item 61)

Equipment Condition

Engine stopped (see your-10)
Vehicle blocked (see your-10)

Personnel Required

Unit Mech 63T10
Helper (H)



Check the title to make sure you are troubleshooting the correct system for the problem. Read the INITIAL SETUP carefully and make sure you have all items listed. Some access steps in Equipment Conditions may not need to be performed depending on the fault location. You decide which are necessary for your particular problem.

TM 9-2350-277-20-1

ENGINE CRANKS SLOWLY

0020 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General mechanics tool kit: automotive
(WP 0926 00, Item 65)
STE/ICE-R test set (WP 0926 00, Item 61)

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)

Personnel Required

Unit Mech
Helper (H)



This is the first block of the troubleshooting task. Step 1 has you performing a STE/ICE test. Go to the page shown. You will be using a STE/ICE test procedure for this step. Come back to this block when you complete the test.

1. Perform STE/ICE test 67 battery voltage (WP 0124 00).

NO



Here is the STE/ICE test procedure. It will give you more steps to find the fault. Before you begin, make sure you have all the items in the INITIAL SETUP. Do all the steps in the procedure. After you do the steps, go back to where you left off in the troubleshooting task.

TM 9-2350-277-20-1

STE/ICE TEST 67 BATTERY VOLTAGE 0124 00

THIS WORK PACKAGE COVERS:
Test (page 0124 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)
STE/ICE hooked up to DCA 6 (WP 0117 00)

Personnel Required

Unit Mech



References

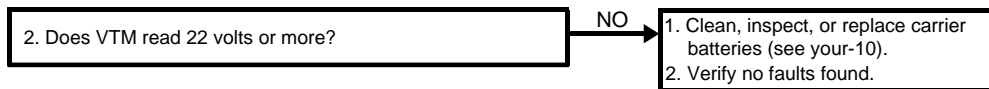
See your-10
TM 9-4910-571-12&P

1. Select TEST 67.
2. Press and release TEST button.

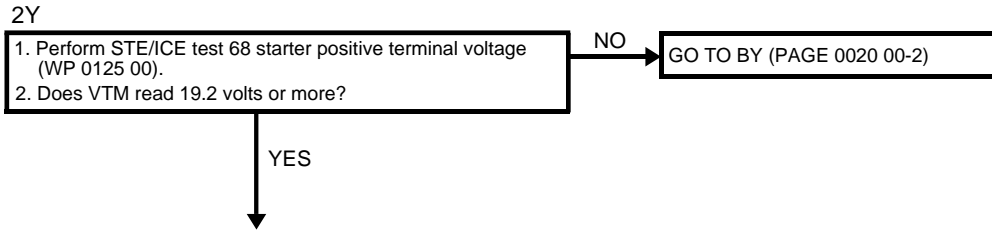
CONDITIONS	VOLTS
Engine off/MASTER SWITCH OFF.	21 or more
Cranking engine fuel off.	17 or more
Charging 1100-1300 RPM/service lights on.	26 to 29.5

- a. If display is erratic or shows 0 (v olts), go to: STE/ICE DCA Battery Voltage Diagnostic Troubleshooting (WP 0142 00).
 - b. If error message appears, see TM 9-4910-571-12&P.
3. Return to troubleshooting.

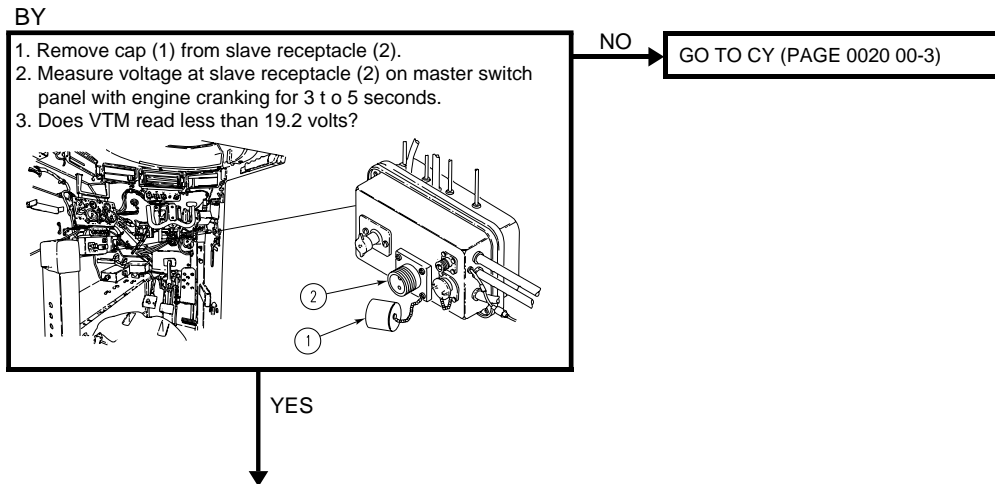
This is where you left off in the troubleshooting task. Answer the question in step 2. The answer to question depends on what you found when you did the STE/ICE test procedure. In this sample, let us say the test shows 22 volts. So the answer to the question, "Does test read 22 volts or more?" is YES. Follow the YES arrow to the next block.



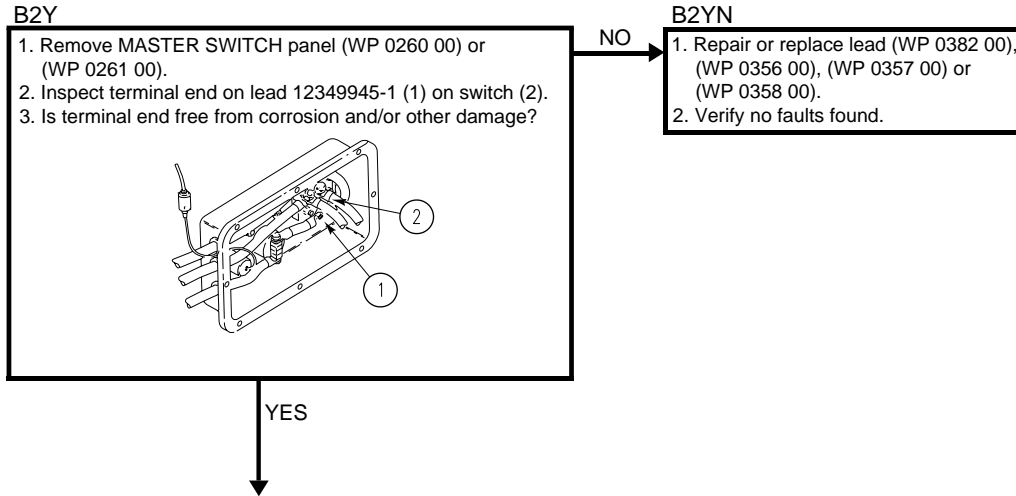
The YES arrow takes you to this block. Do steps 1 and 2. In this sample, let us say the test show 17 volts. So the answer to the question, “Does VTM read 19.2 volts or more?” is NO. Follow the NO arrow to the reference indicated.



This is how the reference appears once you locate it. Do steps 1 thru 3. Let us say the VTM reads less than 19.2 volts. So the answer to the question, “Does VTM read less than 19.2 volts?” is YES. Follow the YES arrow to the next block.



The YES arrow takes you to this block. Do steps 1 thru 3. In this sample, let us say the terminal end is free from corrosion and/or other damage. So the answer to step 3 is YES. Follow the YES arrow to the next block.



The YES arrow takes you to this block. You have found the fault in the MASTER SWITCH. This block gives you the step to correct the fault. Do step 1. It tells you to go to another task in the manual. Go to the page shown and perform the task. Return to this block when you have completed the task.

B3Y

1. Peplace MASTER SWITCH (WP 0262 00) or (WP 0273 00).
2. Verify no faults found.

Step 2 in this block is “Verify no faults found”. Check to make sure you have fixed the reported fault and there are no other problems. After no faults have been verified, return carrier to operation.

This section has given you information on how to use troubleshooting. By going through the troubleshooting sample, you have seen how parts of this chapter are used. This information will help you successfully troubleshoot at the unit maintenance level.

MALFUNCTION/SYMPTOM INDEX WP

0006 00

ENGINE SYSTEM

ENGINE OVERHEATS (OLD VSFD CONFIGURATION)..... WP 0014 00
 ENGINE OVERHEATS (NEW VSFD CONFIGURATION)..... WP 0014 01
 ENGINE OVERCOOLS..... WP 0015 00
 ENGINE DOESN'T CRANK..... WP 0016 00
 ENGINE DOESN'T START (COLD WEATHER ONLY)..... WP 0017 00
 WAIT INDICATOR FLASHES DURING START ATTEMPTS (PREGLOW
 OR AFTERGLO)..... WP 0018 00
 WAIT INDICATOR DOESN'T LIGHT..... WP 0019 00
 ENGINE CRANKS SLOWLY..... WP 0020 00
 ENGINE CRANKS BUT WILL NOT START..... WP 0021 00
 ENGINE CRANKS BUT WILL NOT START BELOW 40° FAHRENHEIT
 (AIR BOX HEATER IS USED)..... WP 0022 00
 ENGINE CRANKS BUT WILL NOT START BELOW 40° FAHRENHEIT
 (GLOW PLUGS ARE USED)..... WP 0023 00
 ENGINE RUNS ROUGH, STALLS OR DOESN'T PUT OUT FULL
 POWER..... WP 0024 00
 GENERATOR MALFUNCTIONS AS INDICATED BY
 BATTERY/GENERATOR INDICATOR..... WP 0025 00
 ENGINE OIL LOW PRESSURE INDICATOR COMES ON..... WP 0026 00

ELECTRICAL SYSTEM

NO EXTERIOR LIGHTS OPERATE..... WP 0029 00
 BLACKOUT DRIVE LIGHT DOESN'T WORK..... WP 0030 00
 SERVICE HEADLIGHTS DON'T WORK..... WP 0031 00
 DELETED..... WP 0032 00
 SERVICE AND/OR BLACKOUT STOP LIGHTS MALFUNCTION..... WP 0033 00
 BLACKOUT MARKER LIGHT DON'T WORK..... WP 0034 00
 SERVICE TAIL LIGHT DOESN'T WORK..... WP 0035 00
 TRAILER LIGHTS DON'T WORK..... WP 0036 00
 HORN DON'T WORK..... WP 0037 00
 INSTRUMENT PANEL AND/OR TRANSMISSION CONTROLLER
 ILLUMINATION LIGHTS MALFUNCTION..... WP 0038 00
 DOME LIGHT(S) DON'T WORK..... WP 0039 00
 DOME LIGHTS MALFUNCTION (M577A3 ONLY)..... WP 0040 00
 BLACKOUT DOME LIGHTS DO NOT WORK (M1068A3 ONLY)..... WP 0041 00
 RIGHT REAR UTILITY OUTLET/ADMITTANCE BUZZER WORKS
 IMPROPERLY (M577A3 AND M1068A3 ONLY)..... WP 0042 00
 LEFT REAR UTILITY OUTLET/BLOWER DOES NOT WORK (M577A3
 AND M1068A3 ONLY)..... WP 0043 00
 RADIO(S) DON'T WORK..... WP 0044 00
 SMOKE GRENADE LAUNCHER(S) MALFUNCTION (M113A3 AND
 M1059A3 ONLY)..... WP 0045 00

INSTRUMENT & WARNING LIGHT PANEL INDICATORS

MASTER SWITCH ON INDICATOR DOESN'T LIGHT..... WP 0048 00
 FUEL LEVEL INDICATOR MALFUNCTIONS..... WP 0049 00
 HIGH BEAM INDICATOR LIGHT DOESN'T WORK..... WP 0050 00
 BATTERY/GENERATOR INDICATOR MALFUNCTIONS..... WP 0051 00
 PARKING BRAKE INDICATOR MALFUNCTIONS..... WP 0052 00
 COOLANT TEMPERATURE INDICATOR MALFUNCTIONS..... WP 0053 00
 STEERING LOCKED INDICATOR MALFUNCTIONS..... WP 0054 00

MALFUNCTION/SYMPTOM INDEX WP — Continued

0006 00

ENGINE OIL LOW PRESSURE INDICATOR MALFUNCTIONS..... WP 0055 00
 TRANSMISSION OIL LOW PRESSURE INDICATOR MALFUNCTIONS WP 0056 00
 TRANSMISSION OIL HIGH TEMP INDICATOR MALFUNCTIONS..... WP 0057 00
 ENGINE COOLANT LOW LEVEL INDICATOR MALFUNCTIONS..... WP 0058 00
 TRANSMISSION FILTER CLOGGED INDICATOR MALFUNCTIONS..... WP 0059 00

TRANSMISSION SYSTEM

CARRIER MOVES WITH TRANSMISSION IN SL..... WP 0061 00
 CARRIER DOES NOT ATTAIN HIGH SPEED..... WP 0061 01
 CARRIER DOES NOT MOVE IN ANY SHIFT LEVER POSITION..... WP 0062 00
 CARRIER DRIFTS OR DOES NOT STEER..... WP 0063 00
 SERVICE AND/OR PARKING BRAKE WON'T HOLD CARRIER..... WP 0064 00
 TRANSMISSION WON'T UPSHIFT OR SHIFTS ERRATICALLY IN 1-4
 POSITION..... WP 0065 00
 TRANSMISSION DOES NOT DOWNSHIFT IN 1-4 POSITION..... WP 0066 00
 TRANSMISSION DOES NOT HOLD 1ST POSITION..... WP 0067 00
 TRANSMISSION DOES NOT HOLD 2ND POSITION..... WP 0068 00
 TRANSMISSION DOES NOT HOLD 3RD POSITION..... WP 0069 00
 TRANSMISSION DOES NOT REVERSE..... WP 0070 00
 TRANSMISSION DOES NOT PIVOT STEER..... WP 0071 00
 TRANSMISSION HIGH TEMP INDICATOR COMES ON..... WP 0072 00
 TRANSMISSION LOW LUBE INDICATOR COMES ON..... WP 0073 00

STEERING SYSTEM

SOLENOID-ACTIVATED STEERING LOCK MALFUNCTIONS..... WP 0076 00
 CABLE-ACTIVATED STEERING LOCK MALFUNCTIONS..... WP 0077 00

BILGE PUMPS SYSTEM

FRONT AND/OR REAR BILGE PUMP(S) AND/OR LIGHTS DON'T
 WORK..... WP 0080 00

RAMP HYDRAULIC SYSTEM

RAMP WILL NOT LOWER..... WP 0082 00
 RAMP OPERATION IS SLOW OR SLUGGISH..... WP 0083 00
 RAMP WILL NOT RAISE OR FREE FALLS..... WP 0084 00

PERSONNEL HEATER SYSTEM

PERSONNEL HEATER MALFUNCTIONS..... WP 0086 00

COOLANT HEATER SYSTEM

COOLANT HEATER MALFUNCTIONS..... WP 0089 00

ELECTRICAL EQUIPMENT (M1068A3 ONLY)

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT
 INOPERATIVE (M1068A3 ONLY)..... WP 0090 00
 NO AC POWER FROM TENT INTERFACE PANEL A5 (M1068A3
 ONLY)..... WP 0091 00
 NO DC POWER FROM TENT INTERFACE PANEL A5 (M1068A3
 ONLY)..... WP 0092 00
 NO POWER FROM ROADSIDE AC POWER EXTENSION BOX A6
 (M1068A3 ONLY)..... WP 0093 00

MALFUNCTION/SYMPTOM INDEX WP — Continued

0006 00

NO POWER FROM CURBSIDE AC POWER EXTENSION BOX A7 (M1068A3 ONLY)..... WP 0094 00

NO POWER FROM DC POWER EXTENSION BOX A9 (ALL EXCEPT JACK J23) (M1068A3 ONLY)..... WP 0095 00

NO POWER FROM DC POWER EXTENSION BOX A9, JACK J23 (JTIDS) (M1068A3 ONLY)..... WP 0096 00

NO DC POWER TO SINGLE POINT LAN GROUND BOX A15 (M1068A3 ONLY)..... WP 0097 00

NO POWER FROM UPS POWER EXTENSION BOX A18 (M1068A3 ONLY)..... WP 0098 00

NO POWER FROM CURBSIDE UPS POWER EXTENSION BOX A19 (M1068A3 ONLY)..... WP 0099 00

NO AC/DC INPUT TO ATCCS UPS POWER BOX (M1068A3 ONLY)..... WP 0100 00

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)..... WP 0101 00

FLUORESCENT LIGHTS DO NOT OPERATE (M1068A3 ONLY)..... WP 0102 00

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)..... WP 0103 00

VEHICLE WILL NOT ACCEPT EXTERNAL AC POWER (M1068A3 ONLY)..... WP 0104 00

VEHICLE WILL NOT ACCEPT INVERTER AC POWER (M1068A3 ONLY)..... WP 0105 00

NO POWER TO DC CIRCUITS (M1068A3 ONLY)..... WP 0106 00

NO POWER TO AC CIRCUITS (M1068A3 ONLY)..... WP 0107 00

NO DC OUTPUT FROM DC POWER SUPPLY (M1068A3 ONLY)..... WP 0108 00

NO AC POWER FROM INVERTERS (M1068A3 ONLY)..... WP 0109 00

INVERTER POWER-UP FAILURE (M1068A3 ONLY)..... WP 0109 01

COMMUNICATION EQUIPMENT

NO DATA OUTPUT FROM DATA PANEL A12 (M1068A3 ONLY)..... WP 0110 00

NO LAN OUTPUT FROM DATA PANEL A12 (M1068A3 ONLY)..... WP 0111 00

NO DATA OUTPUT FROM DATA PANEL A13 (M1068A3 ONLY)..... WP 0112 00

NO LAN OUTPUT FROM DATA PANEL A13 (M1068A3 ONLY)..... WP 0113 00

PHONE EXTENSION BOX A14 POST(S) INOPERATIVE (M1068A3 ONLY)..... WP 0114 00

GAUGES

SPEEDOMETER MALFUNCTIONS..... WP 0115 00

TACHOMETER MALFUNCTIONS..... WP 0116 00

DRIVER'S VISION ENHANCER

DRIVER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK..... WP 0116 01

COMMANDER'S VISION ENHANCER DISPLAY DOES NOT WORK (M58 ONLY)..... WP 0116 02

MSD/ICE TESTS

HOOK UP/REMOVE MSD/ICE TEST SET TO DCA 6..... WP 0117 00

MSD/ICE TEST 10 ENGINE RPM..... WP 0118 00

MSD/ICE TEST 24 FUEL SUPPLY PRESSURE..... WP 0119 00

MSD/ICE TEST 25 FUEL RETURN PRESSURE..... WP 0120 00

MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP..... WP 0121 00

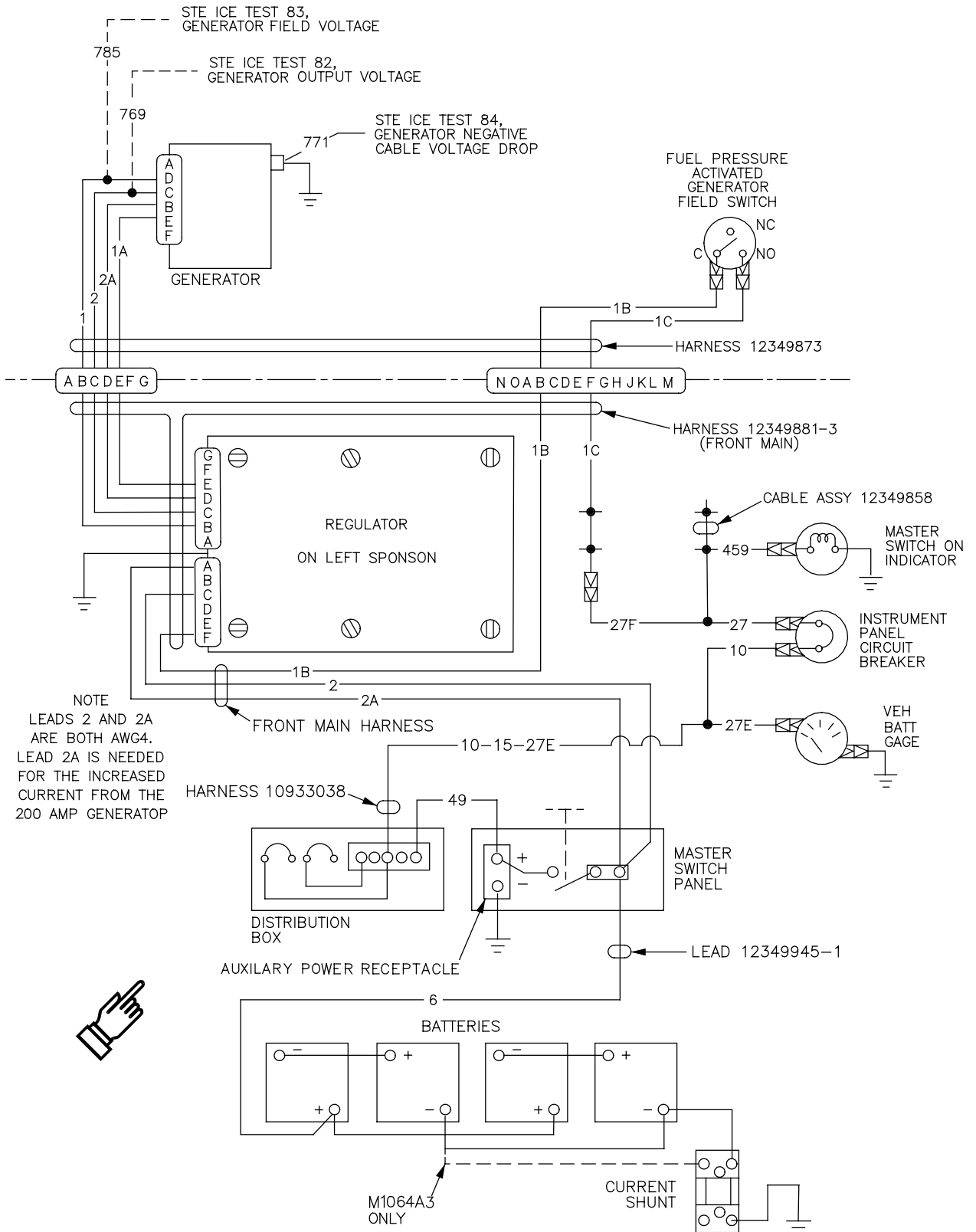
MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE.....	WP 0122 00
MSD/ICE TEST 32 AIR BOX PRESSURE.....	WP 0123 00
MSD/ICE TEST 67 BATTERY VOLTAGE.....	WP 0124 00
MSD/ICE TEST 68 STARTER MOTOR VOLTAGE.....	WP 0125 00
MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP.....	WP 0126 00
MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE.....	WP 0127 00
MSD/ICE TEST 71 STARTER CURRENT (AVERAGE).....	WP 0128 00
MSD/ICE TEST 72 STARTER CURRENT (FIRST PEAK).....	WP 0129 00
MSD/ICE TEST 73 BATTERY RESISTANCE.....	WP 0130 00
MSD/ICE TEST 80 BATTERY CURRENT.....	WP 0132 00
MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE.....	WP 0133 00
MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE.....	WP 0134 00
MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP.....	WP 0135 00

MSD/ICE DIAGNOSTIC TROUBLESHOOTING

MSD/ICE TEST 10, 12, AND 13 DIAGNOSTIC TROUBLESHOOTING.....	WP 0140 00
DCA BATTERY VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	WP 0141 00
DCA CURRENT SHUNT DIAGNOSTIC TROUBLESHOOTING.....	WP 0142 00
MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	WP 0143 00
MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	WP 0144 00
MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC TROUBLESHOOTING.....	WP 0145 00
MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	WP 0146 00
MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC TROUBLESHOOTING.....	WP 0147 00
MSD/ICE TEST 68 STARTER MOTOR VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	WP 0148 00
MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC TROUBLESHOOTING.....	WP 0149 00
MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	WP 0150 00
MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	WP 0151 00
MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC TROUBLESHOOTING.....	WP 0152 00
MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC TROUBLESHOOTING.....	WP 0153 00

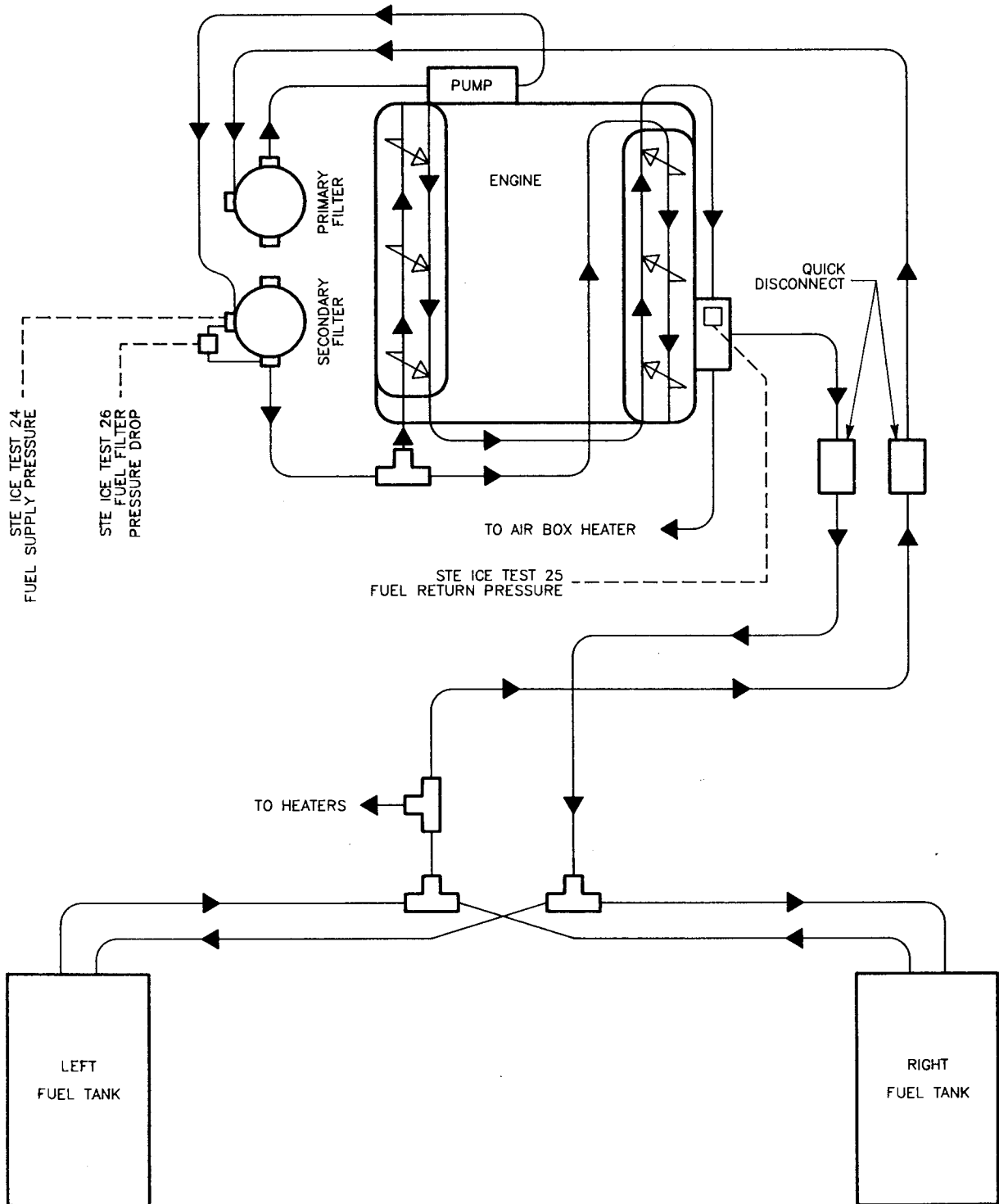
ENGINE CHARGING SYSTEM SCHEMATIC

0007 00



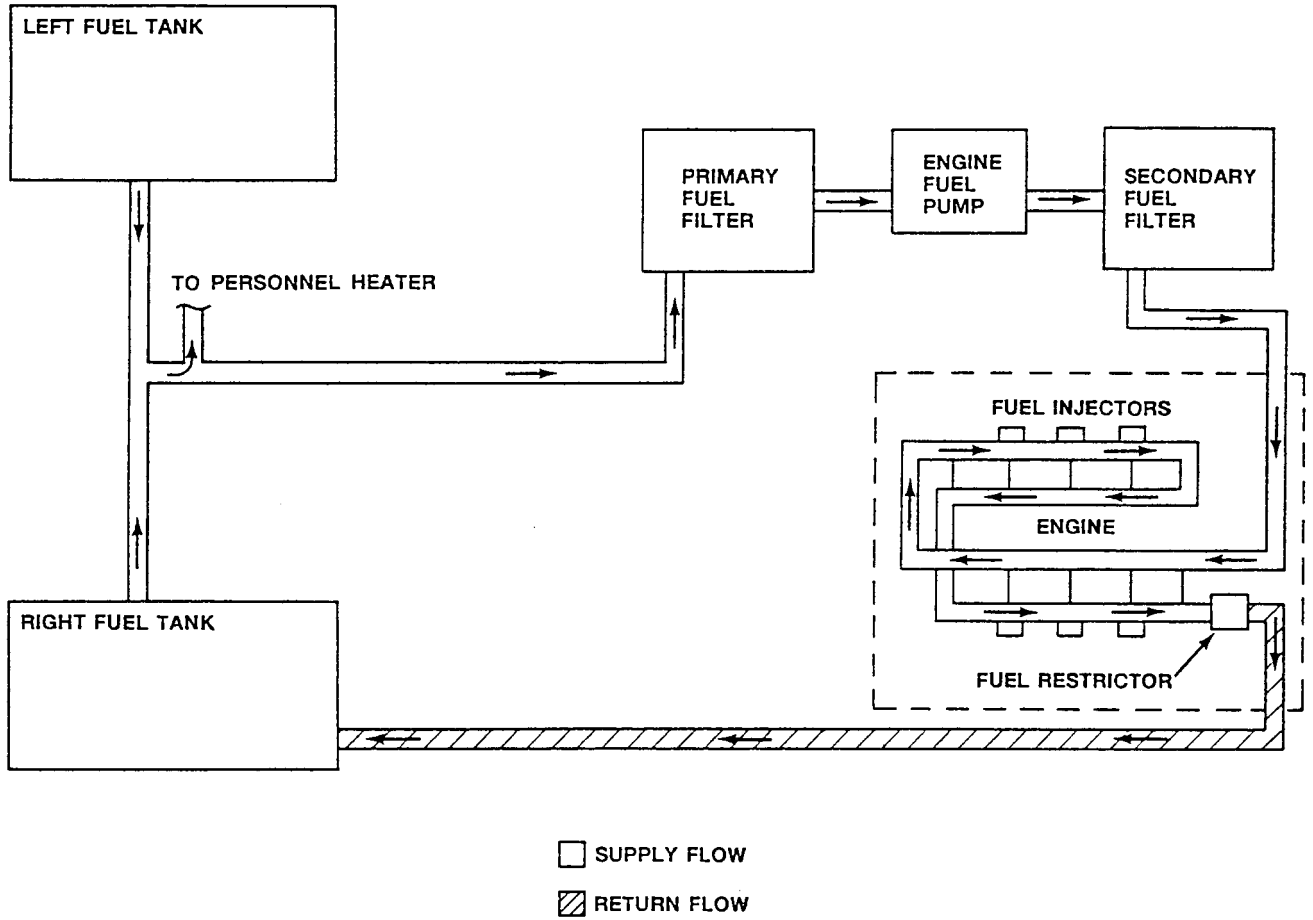
ENGINE FUEL SYSTEM SCHEMATIC (ALL EXCEPT M577A3 AND M1068A3)

0009 00



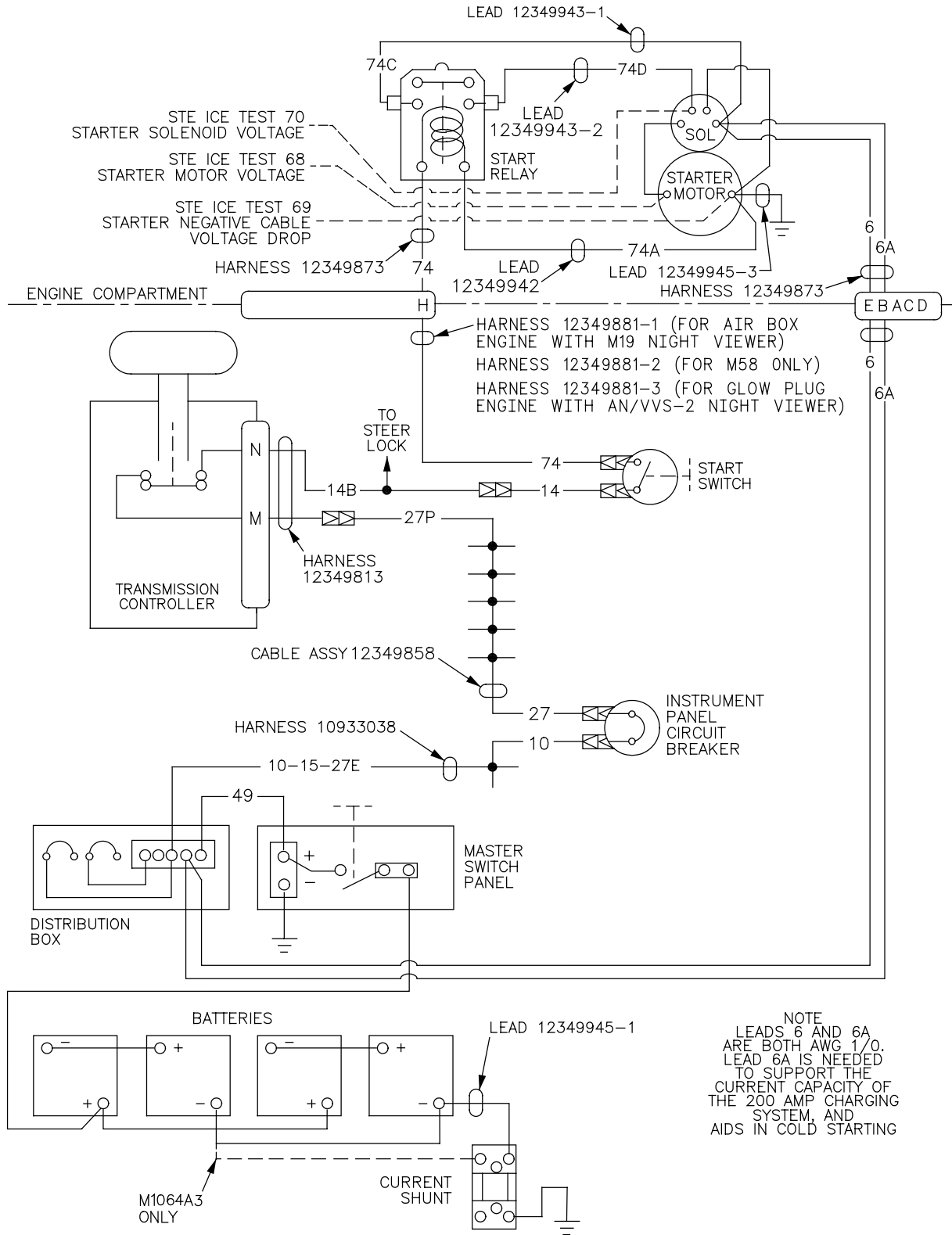
ENGINE FUEL SYSTEM SCHEMATIC (M577A3 AND M1068A3 ONLY)

0010 00



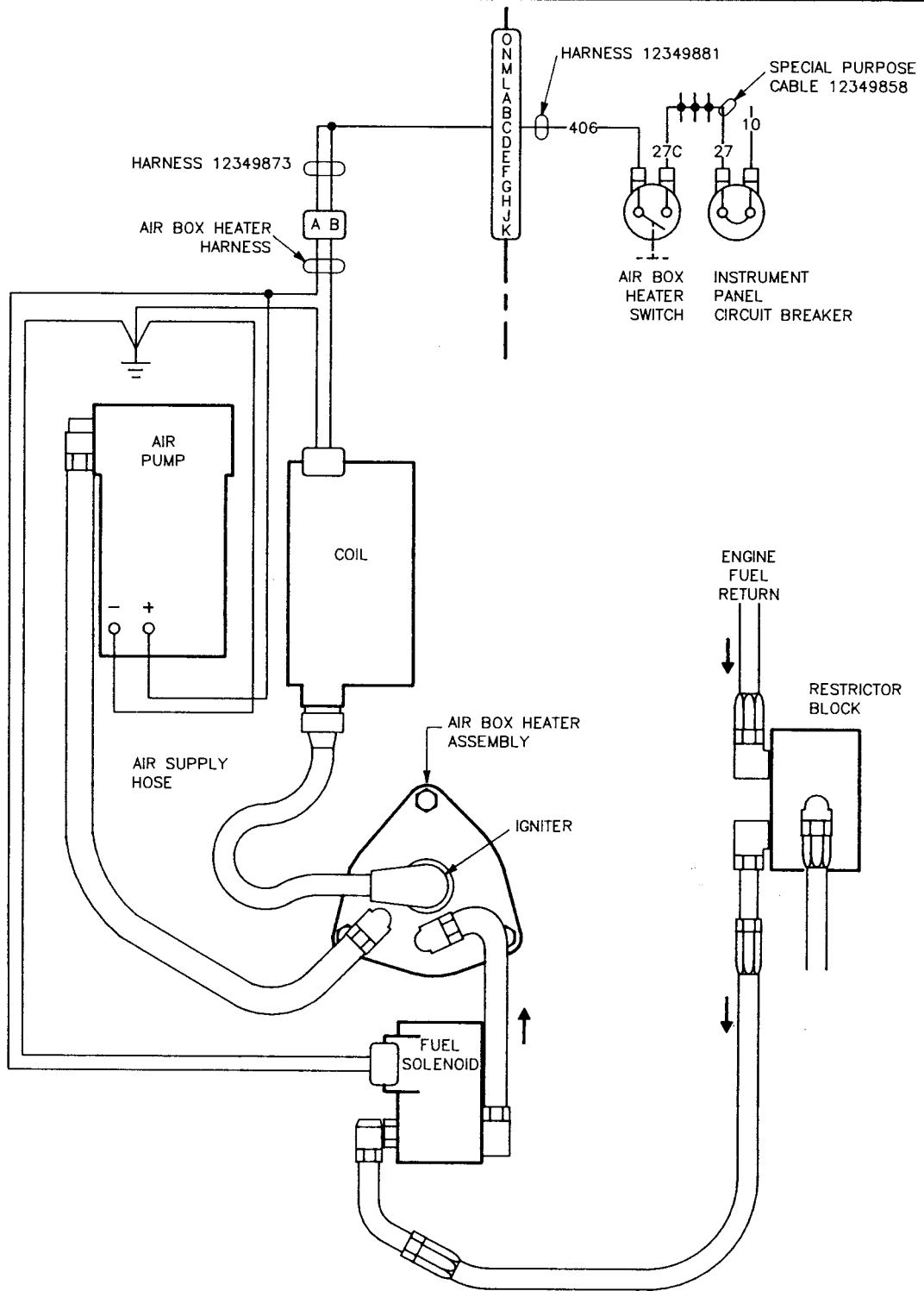
ENGINE STARTER CIRCUIT SCHEMATIC

0011 00



ENGINE AIR BOX HEATER SCHEMATIC

0013 00



ENGINE OVERHEATS (OLD VSFD CONFIGURATION)

0014 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

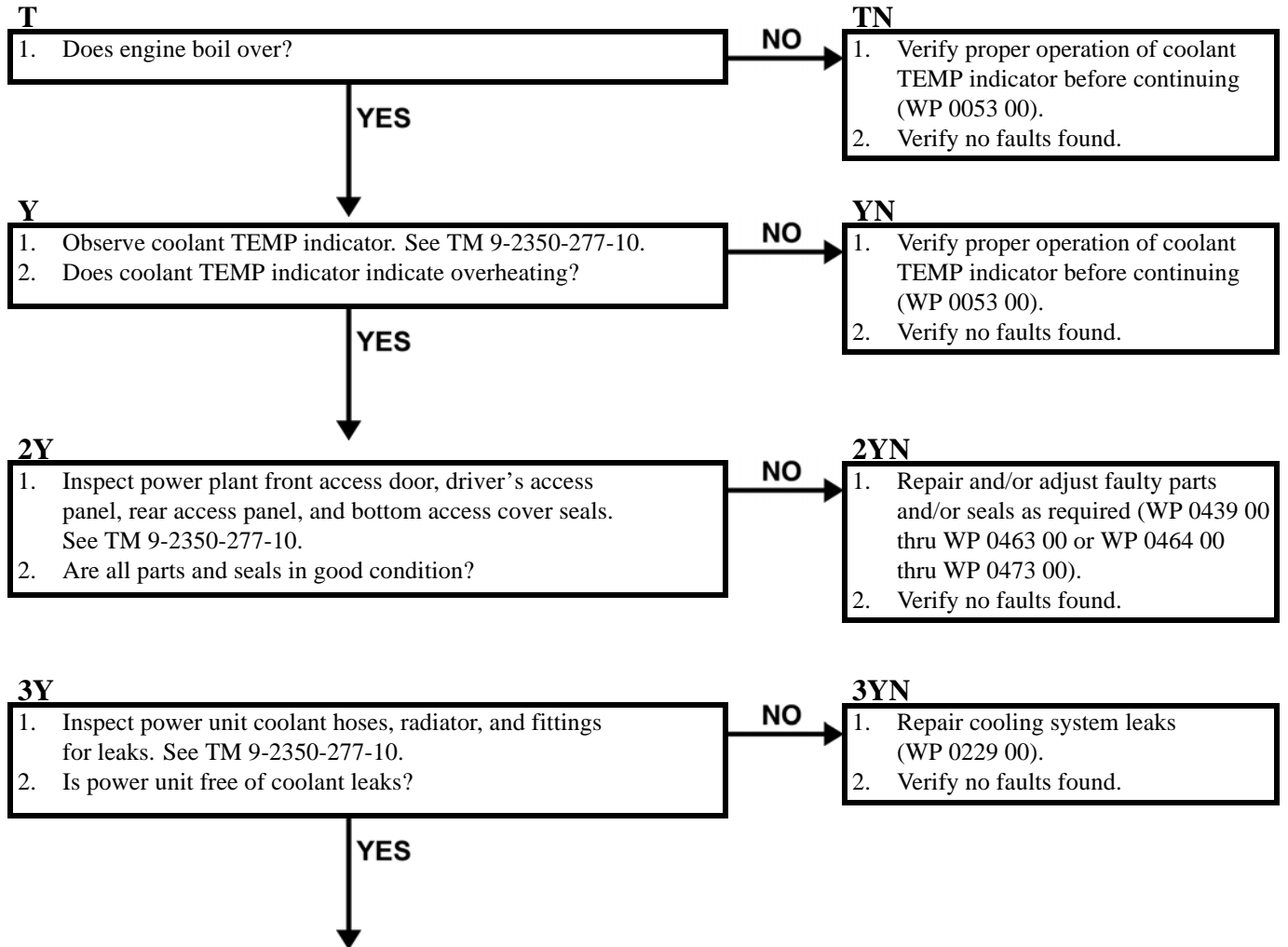
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Pipe Bushing, 1/4 OD to 1/8 ID (WP 0926 00, Item 11)
- Pipe Plug, 1/8 inch (WP 0926 00, Item 33)
- Radiator Test Kit (WP 0926 00, Item 60)

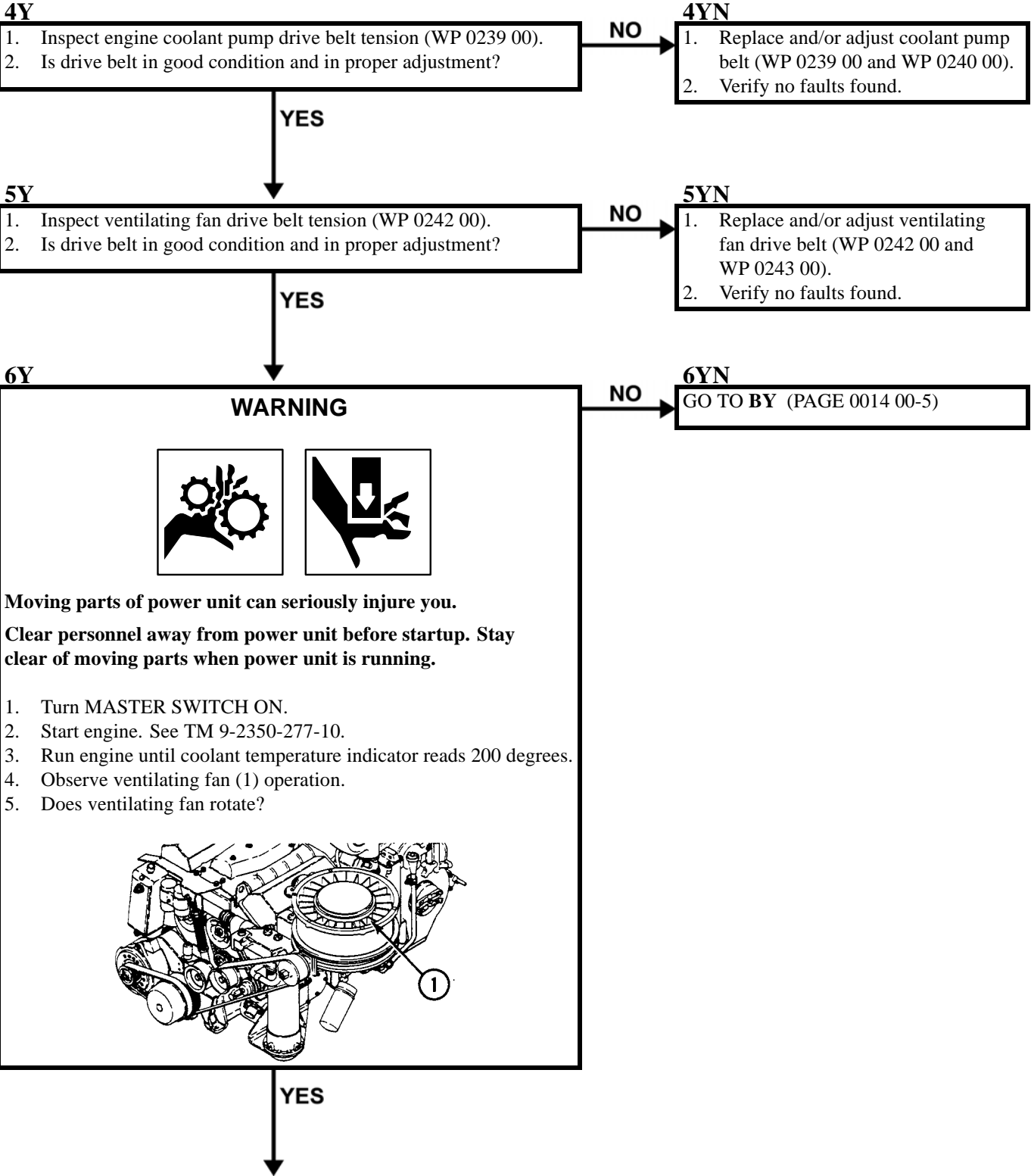
Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)

Personnel Required

- Mechanic
- Helper (H)





7Y

1. Engage thermostatic fan speed switch. See TM 9-2350-277-10.
2. Observe ventilating fan speed.
3. Does speed stay the same?

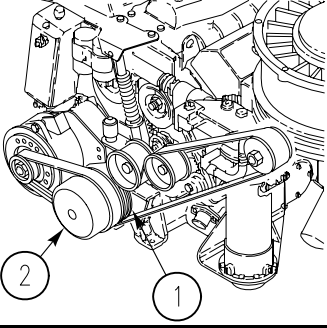
NO

7YN

1. Replace thermostatic fan switch (WP 0231 00).
2. Verify no faults found.

YES

8Y

1. Observe rotation of ventilating fan (1) and generator drive pulleys (2) on drive unit.
 2. Is fan pulley rotating as fast as the generator pulley?
- 

NO

8YN

1. Disengage thermostatic fan speed switch.
2. Replace variable speed fan drive (WP 0249 00).
3. Verify no faults found.

YES

9Y

WARNING



Hot parts can burn you.

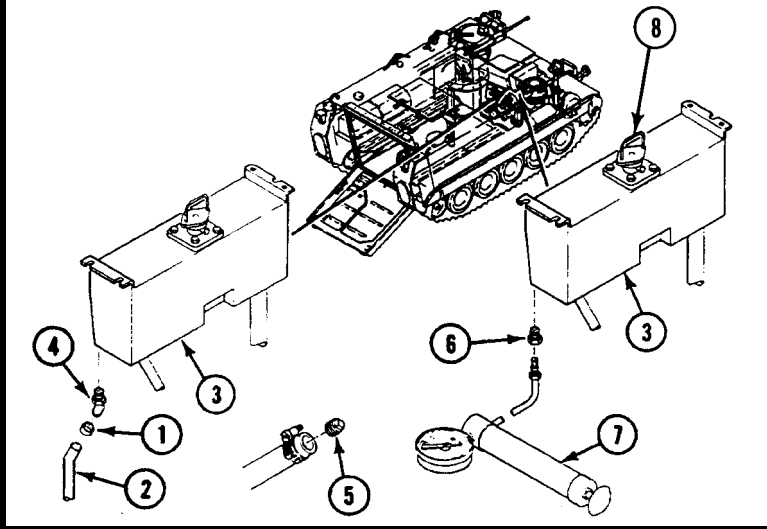
Allow parts to cool before working on or near them. If necessary, use heat protective gloves to work on hot parts.

1. Drain cooling system until auxiliary tank is empty (WP 0227 00).
2. Loosen hose clamp (1) on hose (2) at auxiliary tank (3).
3. Remove hose (2) from auxiliary tank (3).
4. Allow coolant to drain from elbow (4) on auxiliary tank (3).
Use clean suitable container to catch coolant.
5. Install pipe plug (5) in hose (2) using hose clamp (1).
6. Remove elbow (4) from auxiliary tank (3).
7. Install bushing (6) on auxiliary tank (3).
8. Install radiator pressure tester (7) to bushing (6).
9. Pump system no higher than 15 psi pressure.
10. Does auxiliary tank filler cap (8) relieve pressure between 13 and 15 psi pressure?

NO

9YN

1. Refill cooling system (WP 0227 00).
2. Replace auxiliary tank filler cap (WP 0230 00).
3. Verify no faults found.



YES

10Y

1. Allow system to remain at 13 to 15 psi pressure for five minutes.
2. Does pressure drop less than one psi?

NO

10YN

1. Internal coolant system leak. Beyond unit maintenance repair.
2. Notify supervisor.

YES

11Y

1. Replace coolant pump (WP 0241 00).
2. Verify no faults found.

BY

1. Engage thermostatic fan speed switch. See TM 9-2350-277-10.
2. Does fan still fail to rotate?

NO

BYN

1. Replace thermostatic fan speed switch (WP 0231 00).
2. Verify no faults found.

YES

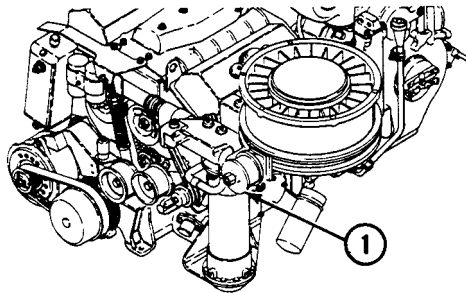
B2Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove ventilating fan drive belt (WP 0243 00).
3. Manually rotate ventilating fan drive shaft pulley (1).
4. Does fan spin freely?

NO

B2YN

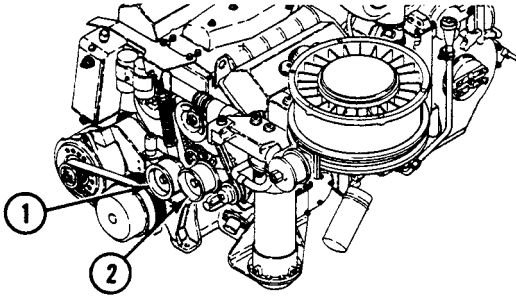
1. Faulty fan drive gearbox. Beyond unit maintenance repair.
2. Notify supervisor.



YES

B3Y

1. Manually rotate adjustable (1) and nonadjustable (2) ventilating fan drive idler pulleys.
2. Do pulleys spin freely?



NO

B3YN

1. Replace adjustable and/or nonadjustable idler pulleys (WP 0240 00).
2. Verify no faults found.

YES

B4Y

1. Replace variable speed fan drive unit (WP 0249 00).
2. Verify no faults found.

ENGINE OVERHEATS (NEW VSFD CONFIGURATION)

0014 01

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

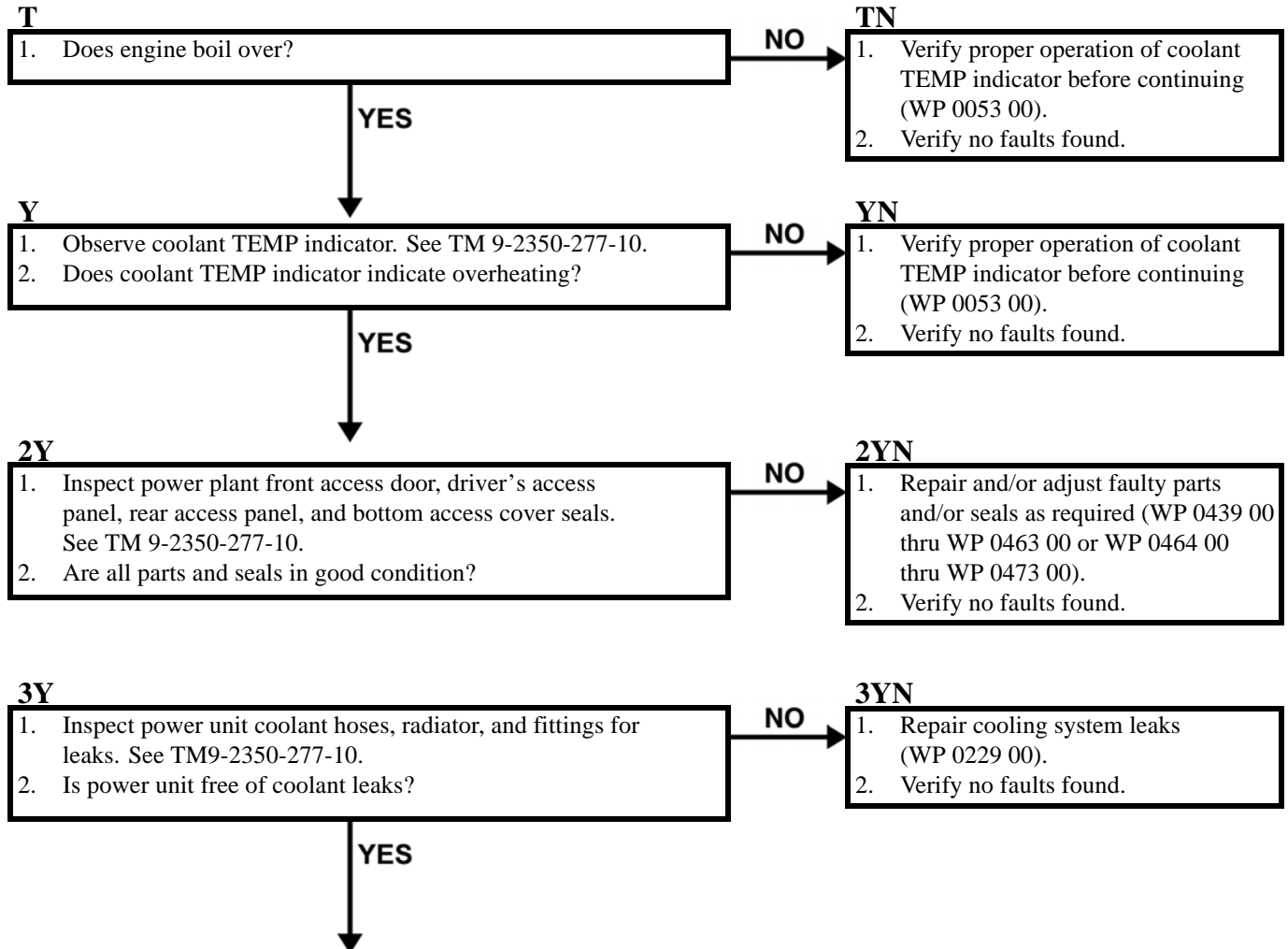
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Pipe Bushing, 1/4 OD to 1/8 ID (WP 0926 00, Item 11)
- Pipe Plug, 1/8 inch (WP 0926 00, Item 33)
- Radiator Test Kit (WP 0926 00, Item 60)

Personnel Required

- Mechanic
- Helper (H)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)



4Y

1. Inspect engine coolant pump drive belt tension (WP 0239 00).
2. Is drive belt in good condition and in proper adjustment?

NO → **4YN**

4YN

1. Replace and/or adjust coolant pump belt (WP 0239 00 and WP 0240 00).
2. Verify no faults found.

YES

5Y

1. Inspect ventilating fan drive belt tension (WP 0242 00).
2. Is drive belt in good condition and in proper adjustment?

NO → **5YN**

5YN

1. Replace and/or adjust ventilating fan drive belt (WP 0242 00 and WP 0243 00).
2. Verify no faults found.

YES

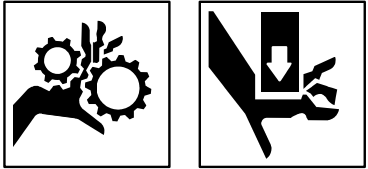
6Y

WARNING

NO → **6YN**

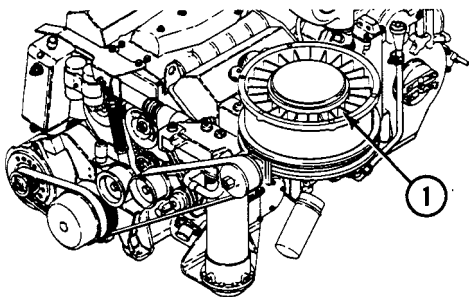
6YN

GO TO BY (PAGE 0014 01-5)



Moving parts of power unit can seriously injure you. Clear personnel away from power unit before startup. Stay clear of moving parts when power unit is running.

1. Turn MASTER SWITCH ON.
2. Start engine. See TM 9-2350-277-10.
3. Run engine until coolant temperature indicator reads 200 degrees.
4. Observe ventilating fan (1) operation.
5. Does ventilating fan rotate?



YES

7Y

1. Engage variable speed fan drive manual override switch. See TM 9-2350-277-10.
2. Observe ventilating fan speed while helper (H) raises the engine RPM to a high idle (1500 RPM) and allows the engine to return back to idle.
3. Does speed stay the same?

NO

7YN

1. Replace variable speed fan drive manual override switch (WP 0231 01).
2. Verify no faults found.

YES

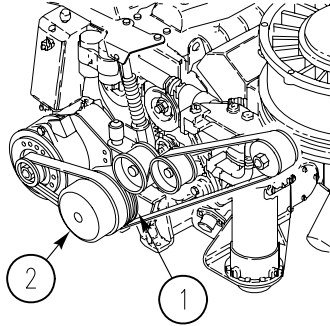
8Y

1. Observe rotation of ventilating fan (1) and generator drive pulleys (2) on drive unit.
2. Is fan pulley rotating as fast as the generator pulley?

NO

8YN

1. Disengage variable speed fan drive manual override switch.
2. Replace variable speed fan drive (WP 0249 01).
3. Verify no faults found.



YES

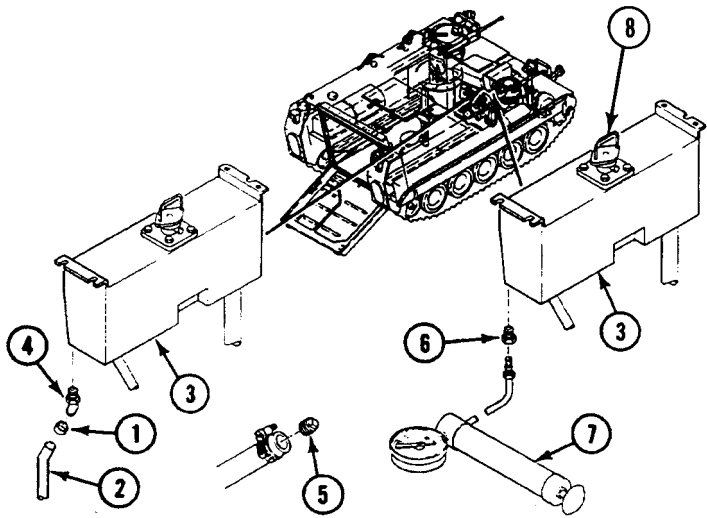
9Y

WARNING



Hot parts can burn you. Allow parts to cool before working on or near them. If necessary, use heat protective gloves to work on hot parts.

1. Drain cooling system until auxiliary tank is empty (WP 0227 00).
2. Loosen hose clamp (1) on hose (2) at auxiliary tank (3).
3. Remove hose (2) from auxiliary tank (3).
4. Allow coolant to drain from elbow (4) on auxiliary tank (3).
Use clean suitable container to catch coolant.
5. Install pipe plug (5) in hose (2) using hose clamp (1).
6. Remove elbow (4) from auxiliary tank (3).
7. Install bushing (6) on auxiliary tank (3).
8. Install radiator pressure tester (7) to bushing (6).
9. Pump system no higher than 15 psi pressure.
10. Does auxiliary tank filler cap (8) relieve pressure between 13 and 15 psi pressure?



YES

NO

9YN

1. Refill cooling system (WP 0227 00).
2. Replace auxiliary tank filler cap (WP 0230 00).
3. Verify no faults found.

10Y

1. Allow system to remain at 13 to 15 psi pressure for five minutes.
2. Does pressure drop less than one psi?

NO

10YN

1. Internal coolant system leak. Beyond unit maintenance repair.
2. Notify supervisor.

YES

11Y

1. Replace coolant pump (WP 0241 00).
2. Verify no faults found.

BY

1. Engage variable speed fan drive override switch. See TM 9-2350-277-10.
2. Does fan still fail to rotate?

NO

BYN

1. Replace VSFD controller (WP 0250 01).
2. Verify no faults found.

YES

B2Y

1. Stop engine. See TM 9-2350-277-10.
2. Install jumper wire on wiring harness (P/N 12474786) terminals E3 and E4.
3. Start engine. See TM 9-2350-277-10.
4. Does fan rotate?

NO

BY2N

GO TO CY (PAGE 0014 01-6)

YES

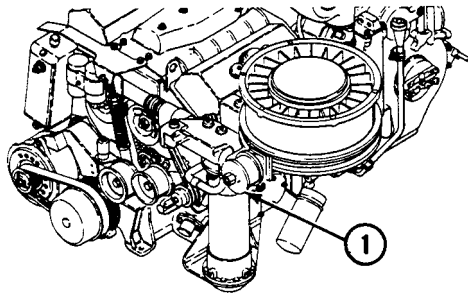
B3Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove ventilating fan drive belt (WP 0111 00).
3. Manually rotate ventilating fan drive shaft pulley (1).
4. Does fan spin freely?

NO

B3YN

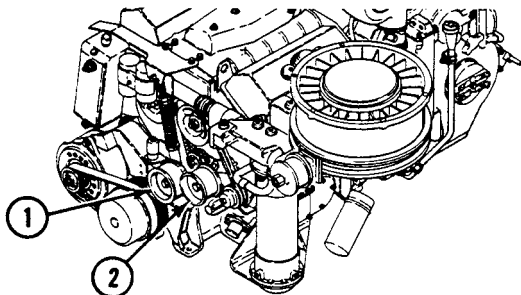
1. Faulty fan drive gearbox. Beyond unit maintenance repair.
2. Notify supervisor.



YES

B4Y

1. Manually rotate adjustable (1) and nonadjustable (2) ventilating fan drive idler pulleys.
2. Do pulleys spin freely?



NO

B4YN

1. Replace adjustable and/or nonadjustable idler pulleys (WP 0240 00).
2. Verify no faults found.

YES

B5Y

1. Replace variable speed fan drive unit (WP 0249 01).
2. Verify no faults found.

CY

1. Stop your engine. See TM 9-2350-277-10.
2. Disconnect battery ground strap (WP 0337 00, WP 0338 00, or WP 0339 00).
3. See wiring diagram.
4. Check continuity of the following connections:
 - P1(A) to Battery ground 7
 - P1(B) to P4(A) and E3
 - P1(C) to P4(B)
 - P1(E) to Battery 6 and E4, P3, P2(S)
 - P2(D) to P5(A)
 - P2(E) to P5(B)
 - P2(G) to P6(A)
 - P2(H) to P6(B)
 - P2(R) to P3
5. Do all checks read zero?

NO

CYN

1. Replace variable speed fan drive harness. (WP 0359 01).
2. Verify no faults found.

YES

C2Y

1. Stop engine. See TM 9-2350-277-10.
2. Install jumper wire on wiring harness (P/N 12474786) engine running switch plug (P3) between sockets (2) and (3).
3. Start engine. See TM 9-2350-277-10.
4. Engage variable speed fan drive manual override switch. See TM 9-2350-277-10.
5. Does fan rotate?

NO

C2YN

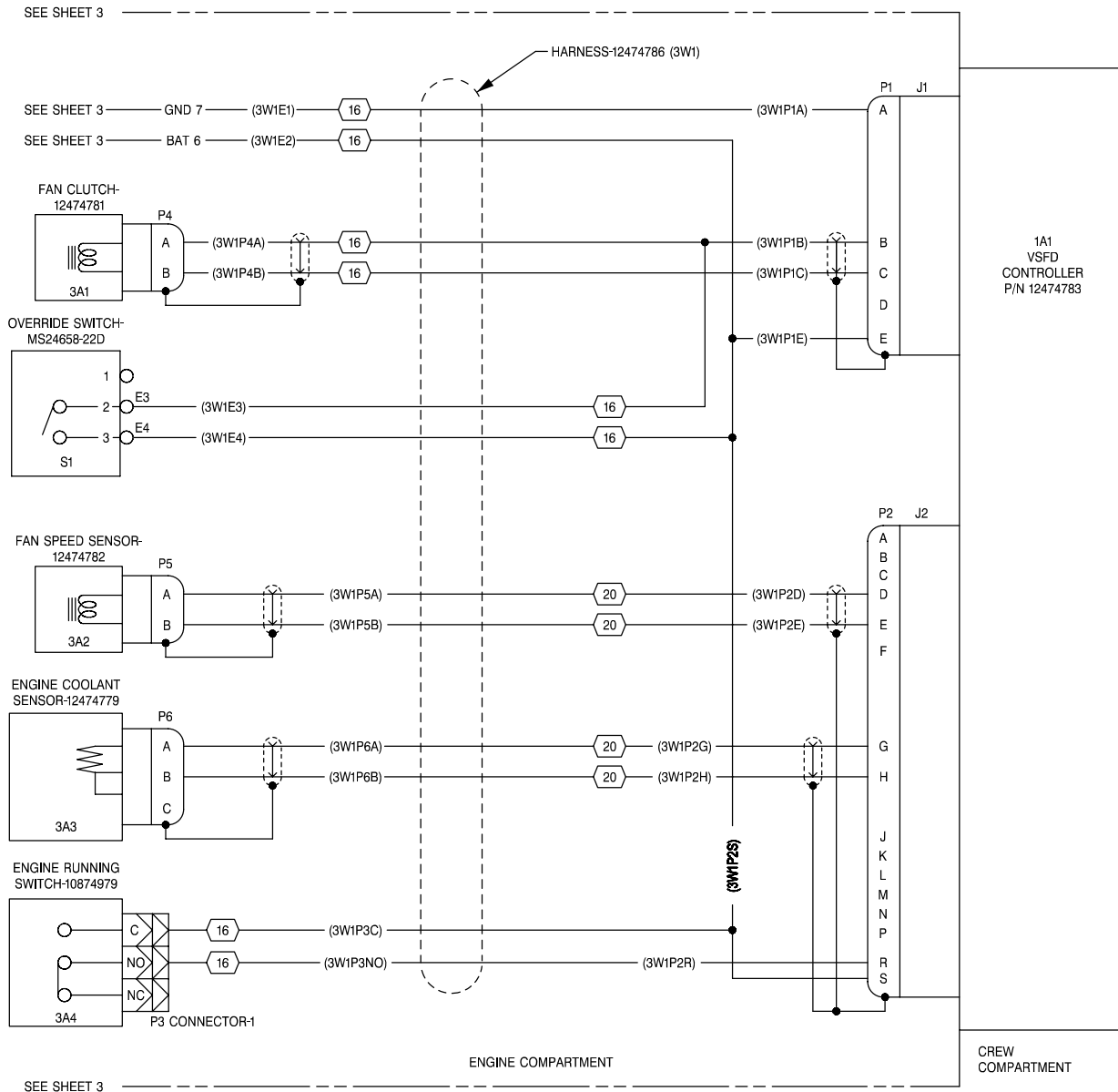
1. Replace variable speed fan drive (WP 0249 01).
2. Verify no faults found.

YES

C3Y

1. Replace engine running switch (WP 0321 01).
2. Verify no faults found.

WIRING DIAGRAM, 12408413



THIS SHEET ONLY-USE FOR MAGNETICALLY CONTROLLED VARIABLE SPEED FAN DRIVE

ENGINE OVERCOOLS

0015 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Helper (H)

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access panels open (TM 9-2350-277-10)



Power plant rear access panels removed (WP 0439 00)

Driver's power plant access panel removed (WP 0441 00)

Coolant TEMP indicator operation checked (WP 0053 00)

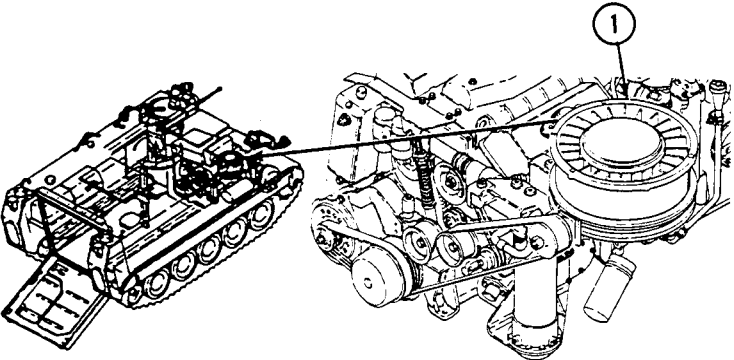
T

WARNING

Moving parts of a power unit can seriously injure you. Clear personnel away from power unit before startup. Stay clear of moving parts when power unit is running.

1. Start engine. See TM 9-2350-277-10.
2. Observe speed of ventilating fan (1).
3. Engage thermostatic fan speed switch (Old Configuration). See TM 9-2350-277-10.
4. Engage variable speed fan drive override switch (New Configuration). See TM 9-2350-277-10.
5. Did ventilating fan speed up when switch was engaged?



TN

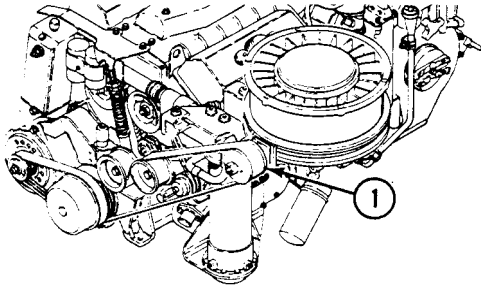
NO →

1. Stop engine. See TM 9-2350-277-10.
2. Replace thermostatic fan speed switch (WP 0231 00) (Old Configuration).
3. Replace variable speed fan drive override switch (WP 0231 01) (New Configuration).
4. Verify no faults found.

YES

Y

1. Stop engine. See TM 9-2350-277-10.
2. Disengage thermostatic fan speed switch (Old Configuration). See TM 9-2350-277-10.
3. Disengage variable speed fan drive override switch (New Configuration). See TM 9-2350-277-10.
4. Manually rotate fan drive belt (1).
5. Do fan drive belt and all related pulleys rotate freely?



NO

YN

1. Replace variable speed fan drive unit (Old Configuration) (WP 0249 00) or (New Configuration) (WP 0249 01).
2. Verify no faults found.

YES

2Y

1. Replace engine thermostat (WP 0237 00).
2. Verify no faults found.

ENGINE DOES NOT CRANK

0016 00

INITIAL SETUP:

Maintenance Level

Unit

References

WP 0124 00

Tools and Special Tools

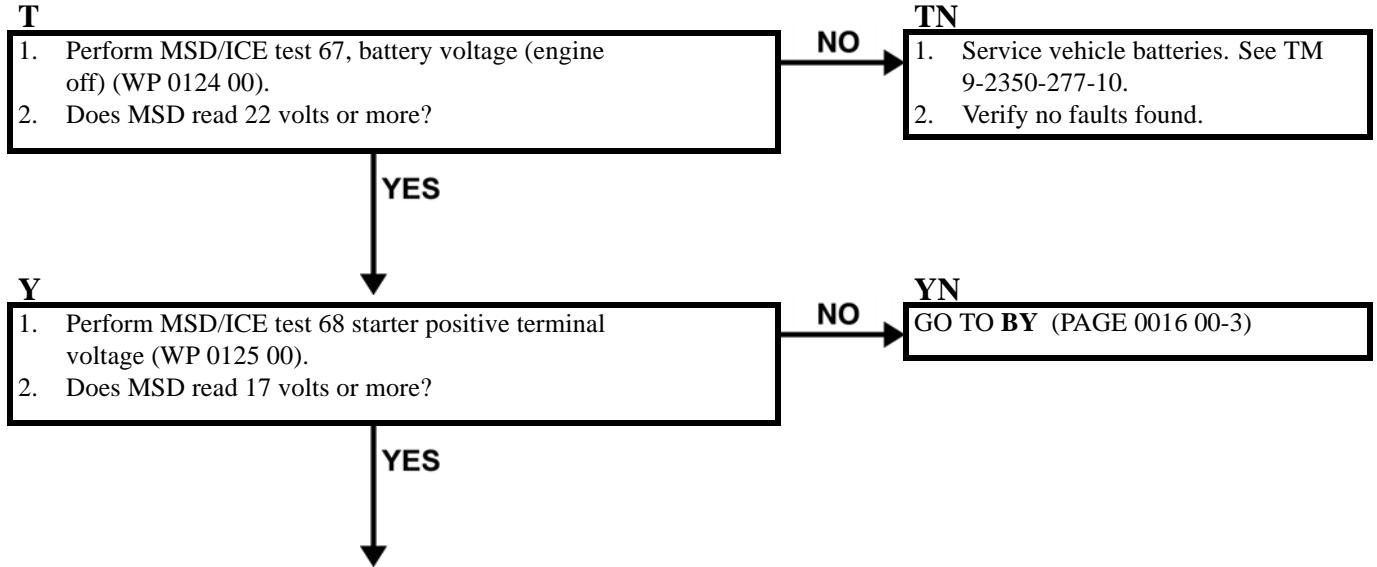
- Electrical Tool Kit (WP 0926 00, Item 64)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Socket Wrench Set (WP 0926 00, Item 73)
- MSD/ICE Test Set (WP 0926 00, Item 61)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access panel open (TM 9-2350-277-10)
- MSD/ICE MSD hooked up to DCA 6 (WP 0117 00)
- Driver's power plant access panel removed (WP 0441 00)

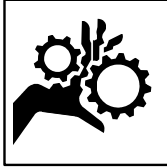
Personnel Required

- Mechanic
- Helper (H)



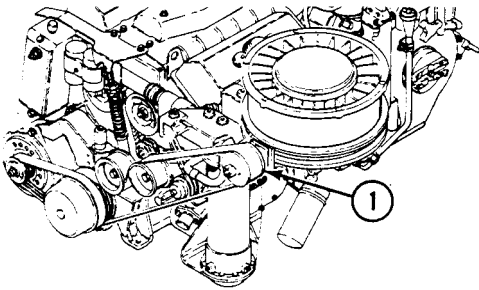
2Y

WARNING



Ensure FUEL SHUT-OFF handle is in OFF position. Engine could start during performance of Step 1. Personnel could be injured. Stay clear of possible moving parts.

1. Manually rotate engine camshaft pulley (1). Use breaker bar, extension, and socket.
2. Does engine rotate?



NO

2YN

1. Engine or transmission seized. Beyond unit maintenance repair.
2. Notify supervisor.

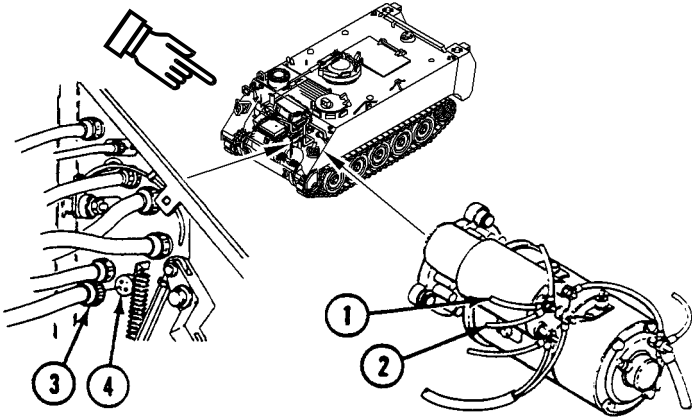
YES

3Y

1. Replace starter assembly (WP 0259 00).
2. Verify no faults found.

BY

1. Inspect harness 12349873 circuit 6 (1) and 6A (2) terminal ends on starter for corrosion and/or damage.
2. Remove harness 12349873 circuit 6/6A plug (3) from harness 12349881 jack (4) at vehicle bulkhead.
3. Inspect condition of plug and jack pins.
4. Are all parts free from corrosion and damage?



NO

BYN

1. Clean and repair parts as required (WP 0382 00).
2. Verify no faults found.

YES

B2Y

1. Install harness 12349873 circuit 6/6A plug to harness 12349881 jack at vehicle bulkhead.
2. Perform MSD/ICE test 70 starter solenoid voltage (WP 0127 00).
3. Does MSD read less than 17 volts?

NO

B2YN

1. Replace starter assembly (WP 0259 00).
2. Verify no faults found.

YES

B3Y

1. Turn MASTER SWITCH to ON.
2. Is STEERING LOCKED indicator ON?

NO

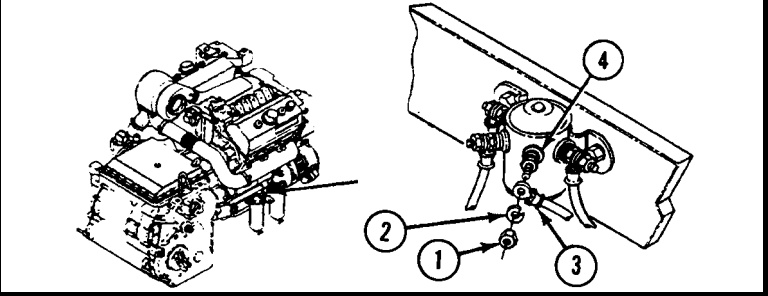
B3YN

GO TO CY (PAGE 0016 00-7)

YES

B4Y

1. Set up MSD/ICE test 91. See TM 9-4910-571-12&P.
2. Remove nut (1), lockwasher (2), and lead 12349942 circuit 74A (3) from starter relay (4).
3. Measure resistance between lead 12349942 circuit 74A (3) and ground.
4. Does MSD read 0 ohms?



NO

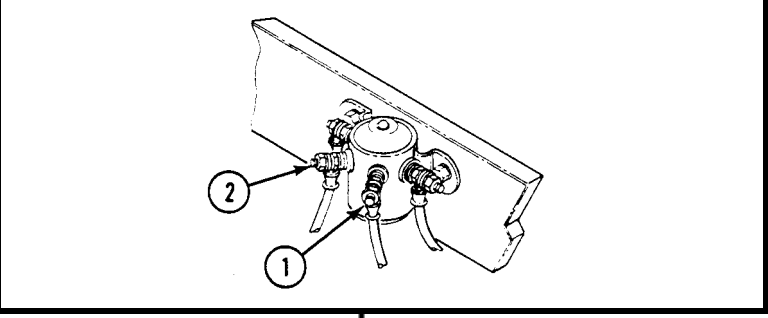
B4YN

1. Replace lead 12349942 circuit (WP 0258 00).
2. Verify no faults found.

YES

B5Y

1. Set up MSD/ICE test 89. See TM 9-4910-571-12&P.
2. Install lead 12349942 circuit 74A on starter relay.
3. Measure voltage between circuit 74 (1) and circuit 74A (2) posts on starter relay with START button pressed.
4. Does MSD read less than 22 volts?



NO

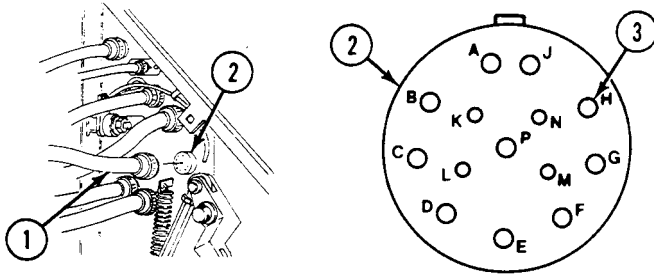
B5YN

GO TO DY (PAGE 0016 00-7)

YES

B6Y

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at vehicle bulkhead.
2. Measure voltage between harness 12349881 jack (2) socket H (3) and ground with START button pressed.
3. Does MSD read less than 22 volts?



NO

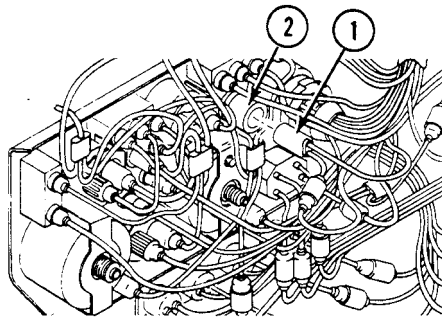
B6YN

1. Faulty harness 12349873 circuit 74. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B7Y

1. Set up MSD/ICE test 91. See TM 9-4910-571-12&P.
2. Remove instrument panel for access (WP 0279 00).
3. Remove harness 12349881 plug (1) from start switch jack (2).
4. Measure resistance between start switch jack (2) pins with START button pressed.
5. Does MSD read 0 ohms?



NO

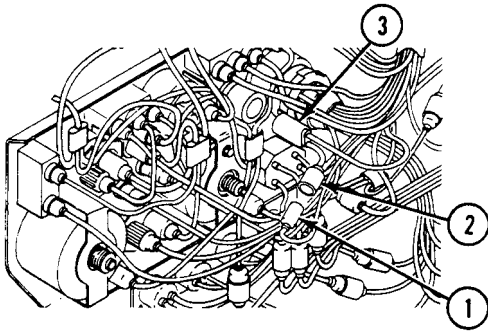
B7YN

1. Install harness 12349873 plug on harness 12349881 jack.
2. Replace engine start switch (WP 0284 00).
3. Verify no faults found.

YES

B8Y

1. Remove harness 12349813 circuit 14B plug (1) from harness 12349881 circuit 14 jack (2).
2. Measure resistance between harness 12349881 circuit 14 jack (2) and circuit 14 plug (3).
3. Does VTM read 0 ohms?



YES

B9Y

1. Install harness 12349813 plug on harness 12349881 circuit 14 jack.
2. Repair harness 12349881 circuit 74 (WP 0382 00).
3. Install instrument panel (WP 0279 00).
4. Verify no faults found.

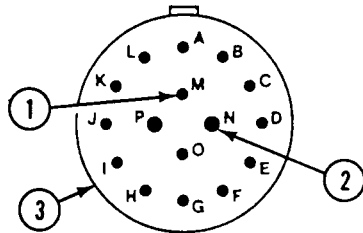
NO

B8YN

1. Install harness 12349873 plug on harness 12349881 jack.
2. Repair harness 12349881 circuit 14 (WP 0382 00).
3. Install instrument panel (WP 0279 00).
4. Verify no faults found.

CY

1. Turn MASTER SWITCH OFF.
2. Set up MSD/ICE test 91. See TM 9-4910-571-12&P.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Place transmission controller in SL position.
5. Measure resistance between pin M (1) and pin N (2) on controller jack (3).
6. Does MSD read 0 ohms?



NO

CYN

1. Replace transmission controller (WP 0386 00 or WP 0387 00).
2. Verify no faults found.

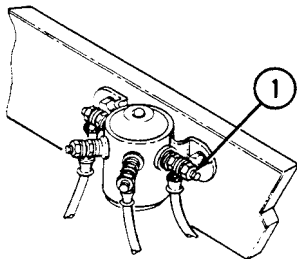
YES

C2Y

1. Go to STEERING LOCKED indicator malfunctions (WP 0054 00).

DY

1. Measure voltage between starter relay circuit 74C post (1) and ground.
2. Does MSD read 22 volts or more?



NO

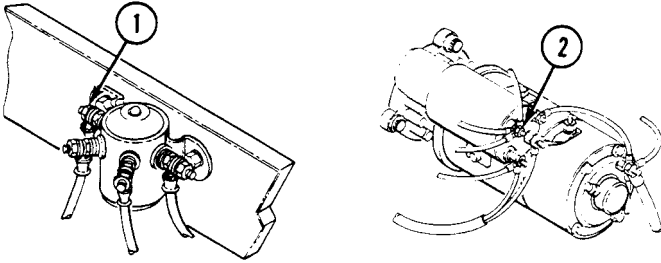
DYN

1. Replace lead 12349943-1 (WP 0258 00).
2. Verify no faults found.

YES

D2Y

1. Set up MSD/ICE test 91. See TM 9-4910-571-12&P.
2. Measure resistance between starter relay circuit 74D terminal (1) and starter solenoid circuit 74D terminal (2).
3. Does MSD read 0 ohms?



NO

D2YN

1. Replace lead 12349943-2 (WP 0258 00).
2. Verify no faults found.

YES

D3Y

1. Replace starter relay (WP 0258 00).
2. Verify no faults found.

ENGINE DOES NOT START (COLD WEATHER ONLY)

0017 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

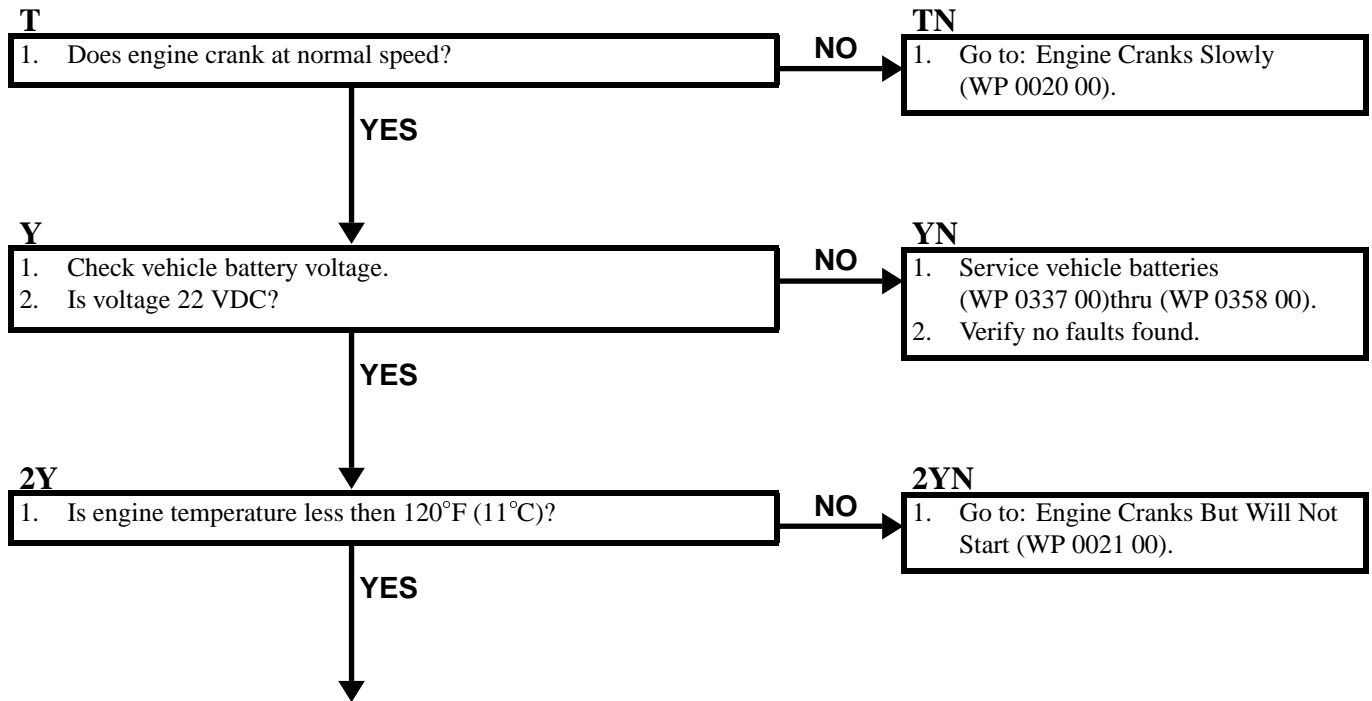
Equipment Condition

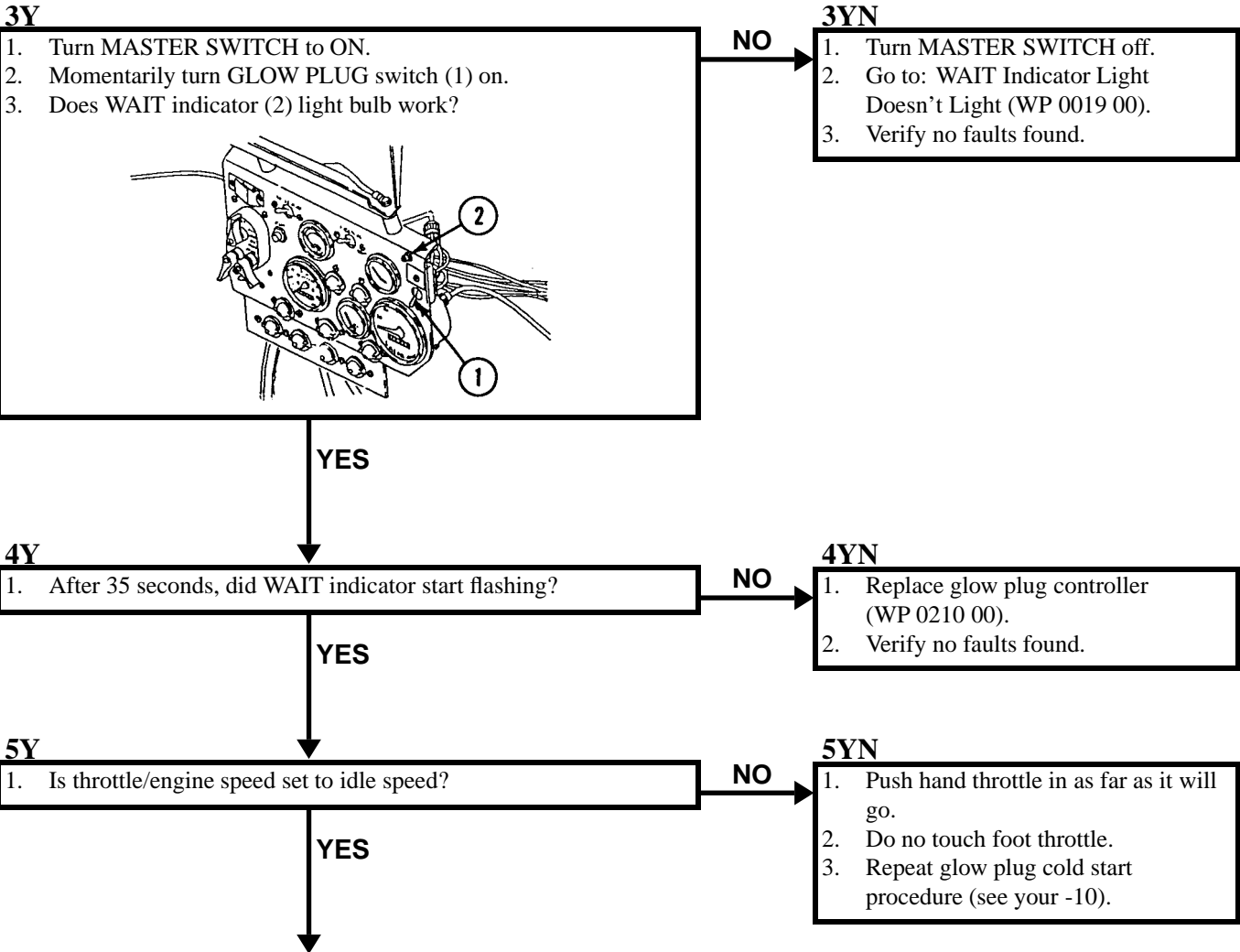
Engine stopped (see your -10)

Personnel Required

Unit Mech 63T10
Helper (H)

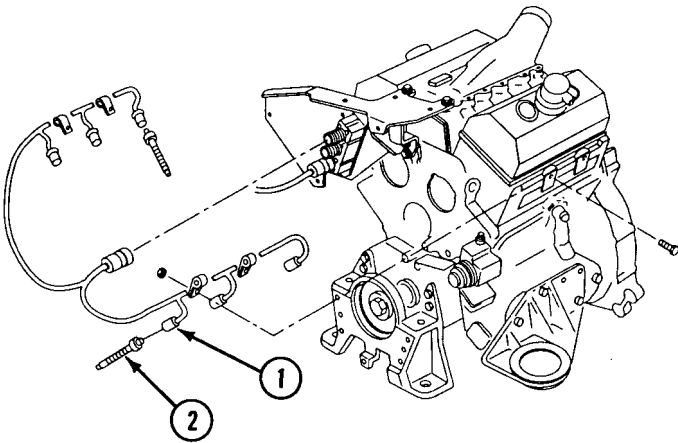
Vehicle blocked (see your -10)





6Y

1. Turn MASTER SWITCH OFF.
2. Disconnect glow plug harness lead (1) from glow plug (2).
3. Place multimeter red lead on glow plug and black lead on engine cylinder head.
4. Is resistance less than 3 to 10 ohms?



NO

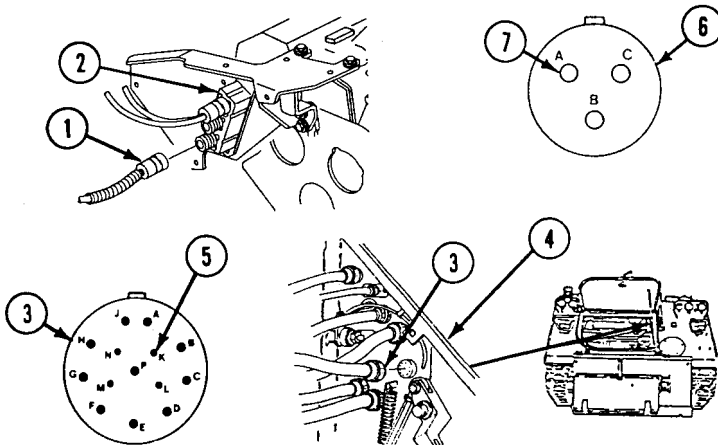
6YN

1. Replace glow plugs that are not within 3 to 10 ohms range (WP 0209 00).
2. Verify no faults found.

YES

7Y

1. Remove engine wiring harness 12349873-1 (1) from J2 connector on controller (2).
2. Remove engine wiring harness 12349873-1 (1) jack (3) from engine compartment bulkhead (4).
3. Check continuity between engine compartment jack (3) pin K (5) and controller plug (6) pin A (7).
4. Does multimeter read 0 ohm?



NO

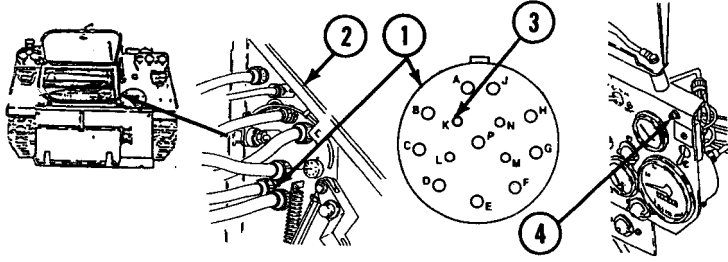
7YN

1. Replace engine harness 12349873-1 circuit 406A lead.
2. Verify no faults found.

YES

8Y

1. Remove front main wiring harness 12349881-2 plug (1) from engine compartment bulkhead (2).
2. Check continuity from plug pin K (3) to WAIT indicator (4) positive terminal.
3. Does multimeter read 0 ohm?



NO

8YN

1. Faulty main wiring harness 12349881-2. Beyond unit maintenance repair.
2. Notify your supervisor.

YES

9Y

1. Replace glow plug controller (WP 0210 00). If engine must be started, use your manual override procedure (see your -10).
2. Verify no faults found.

WAIT INDICATOR FLASHES DURING START ATTEMPTS (PREGLOW OR AFTERGLOW)

0018 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)
Battery ground leads disconnected (WP 0337 00),
(WP 0338 00), or (WP 0339 00)

Personnel Required

Unit Mech 63T10
Helper (H)

T

1. Turn MASTER SWITCH OFF.
2. Disconnect glow plug harness lead from each glow plug.
3. Place multimeter red lead on glow plug and black lead on engine cylinder head.
4. Is resistance less than 3 ohms to 10 ohms?

NO

TN

1. Replace glow plugs that are not within resistance range (WP 0209 00).
2. Verify no faults found.

YES

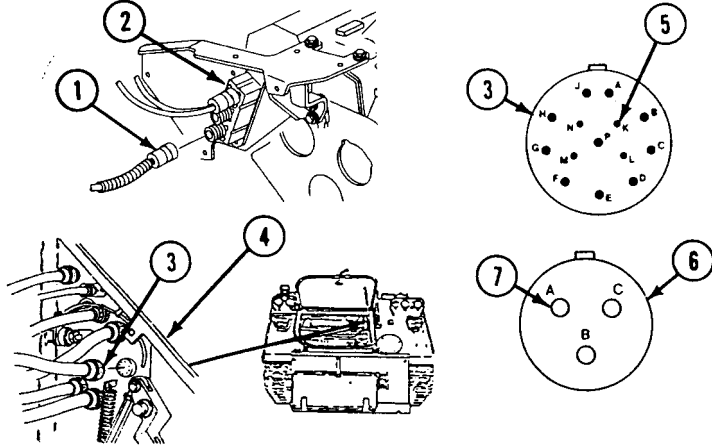


WAIT INDICATOR FLASHES DURING START ATTEMPTS (PREGLOW OR AFTERGLOW)—Continued

0018 00

Y

1. Remove front main wiring harness 12349873-1 (1) from J2 connector on controller (2).
2. Remove engine wiring harness 12349873-1 jack (3) from engine compartment bulkhead (4).
3. Check continuity between engine compartment jack pin K (5) and controller plug (6) pin A (7).
4. Does multimeter read 0 ohm?



YES

NO

YN

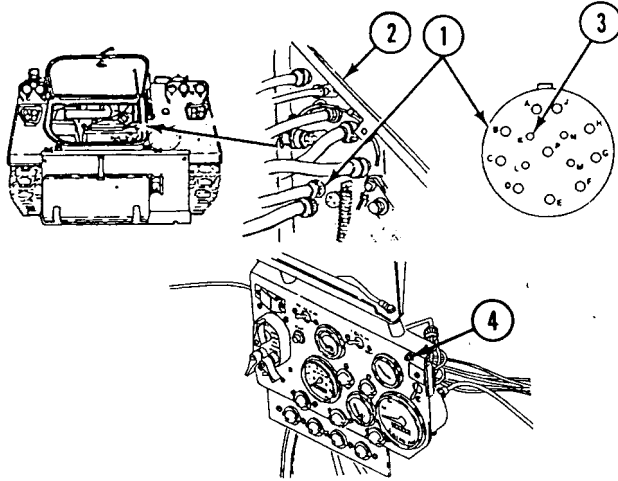
1. Repair or replace engine wiring harness 12349873-1 circuit 406A lead (WP 0359 00).
2. Verify no faults found.

WAIT INDICATOR FLASHES DURING START ATTEMPTS (PREGLOW OR AFTERGLOW)—Continued

0018 00

2Y

1. Remove front main wiring harness 12349881-2 plug (1) from engine compartment bulkhead (2).
2. Check continuity from plug pin K (3) to WAIT indicator (4) positive terminal.
3. Does multimeter read 0 ohm?



NO

2YN

1. Faulty front main wiring harness 12349881-2. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Replace glow plug controller (WP 0210 00).
2. Verify no faults found.

WAIT INDICATOR LIGHT DOESN'T LIGHT

0019 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

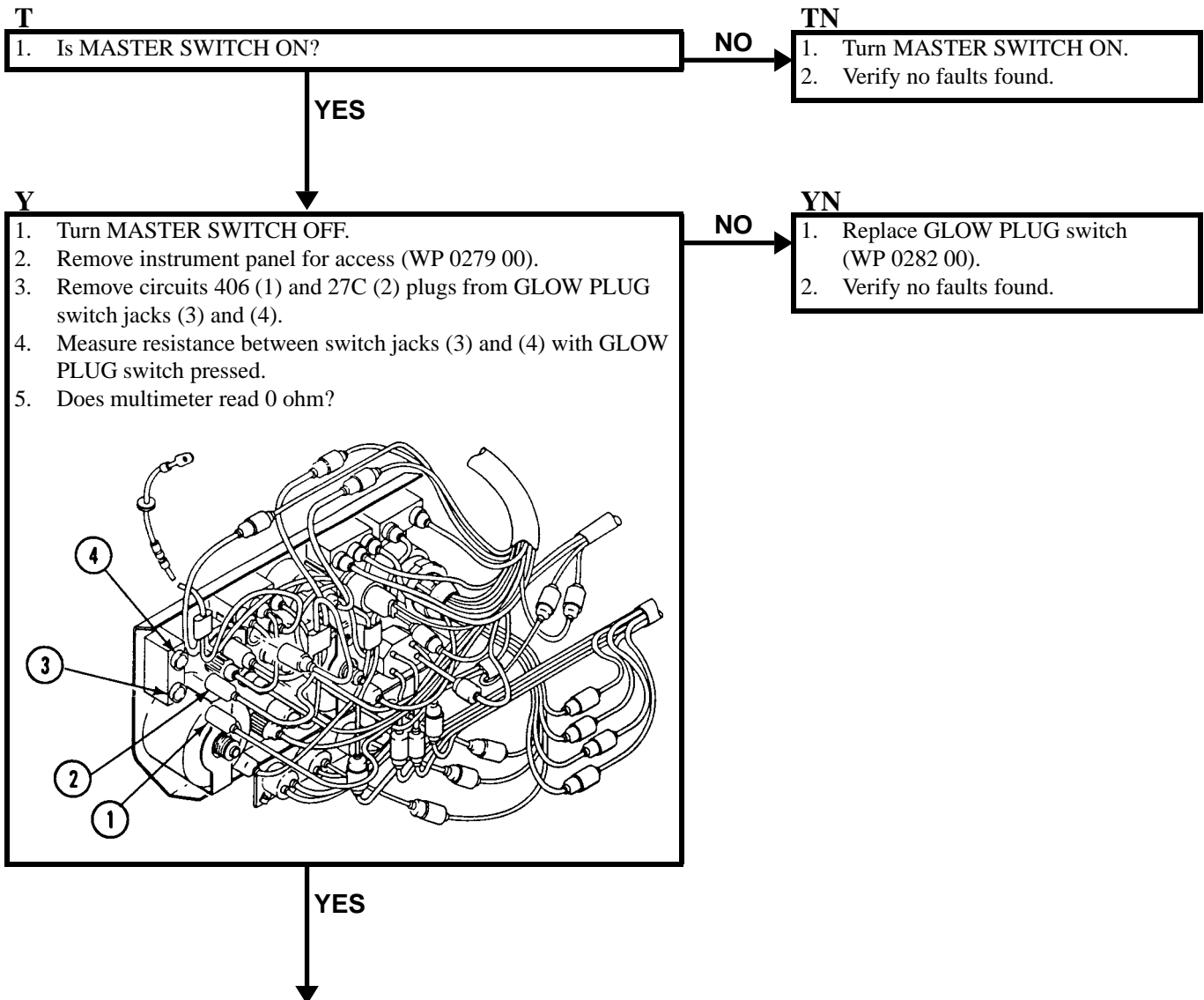
Engine stopped (see your -10)

Vehicle blocked (see your -10)

Personnel Required

Unit Mech 63T10

Helper (H)



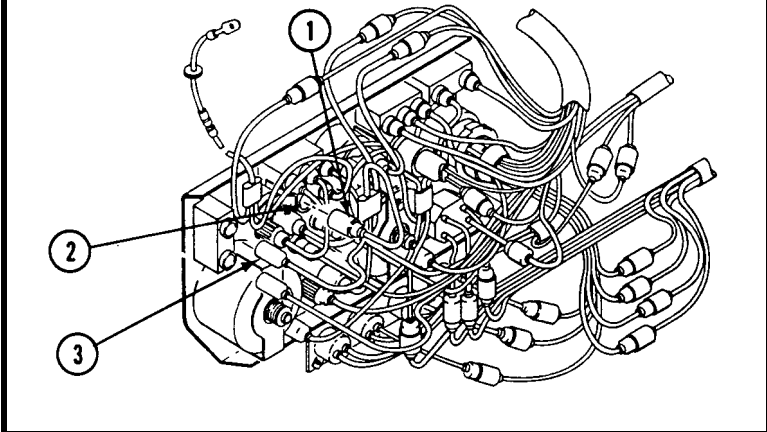
2Y

1. Remove circuit 27 plug (1) from instrument panel circuit breaker (2).
2. Measure resistance between cable assembly 12349858 circuit 27 (1) and 27C (3) plug pins.
3. Does multimeter read 0 ohm?

NO

2YN

1. Repair special purpose cable 12349858 circuit 27C/27 (WP 0382 00).
2. Verify no faults found.



YES

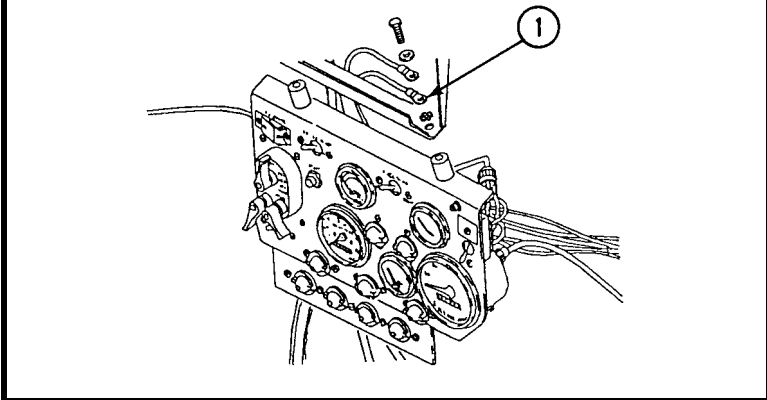
3Y

1. Check circuit 406B lead (1).
2. Is circuit 406B lead grounded to instrument panel mount?

NO

3YN

1. Ground circuit 406B lead to instrument panel mount and tighten screw.
2. Verify no faults found.



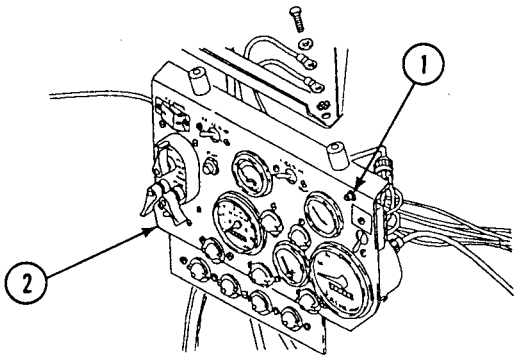
YES

WAIT INDICATOR LIGHT DOESN'T LIGHT—Continued

0019 00

4Y

1. Remove knurled nut from WAIT indicator (1) and instrument panel (2).
2. Remove WAIT indicator (1) from instrument panel (2).
3. Check resistance between WAIT indicator's terminals.
4. Does multimeter read approximately 240 ohms of resistance?



NO

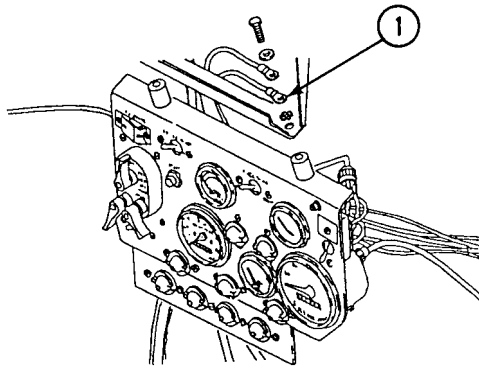
4YN

1. Faulty WAIT indicator on wiring harness 12349881-2. Beyond unit maintenance repair.
2. Notify supervisor.

YES

5Y

1. Check circuit 406B lead (1) for continuity.
2. Does multimeter read 0 ohm?



NO

5YN

1. Faulty circuit 406B lead on wiring harness 12349881-2. Beyond unit maintenance repair.
2. Notify supervisor.

YES

WAIT INDICATOR LIGHT DOESN'T LIGHT—Continued

0019 00

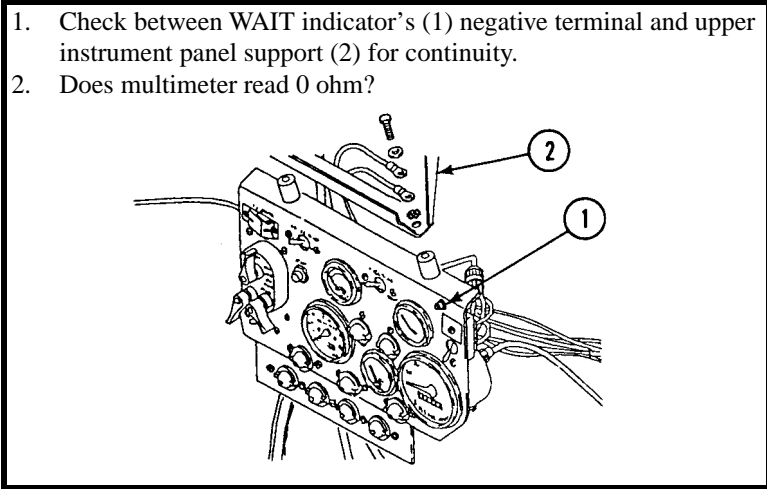
6Y

1. Check between WAIT indicator's (1) negative terminal and upper instrument panel support (2) for continuity.
2. Does multimeter read 0 ohm?

NO

6YN

1. Tighten screw securing instrument panel to support.
2. Verify no faults found



YES

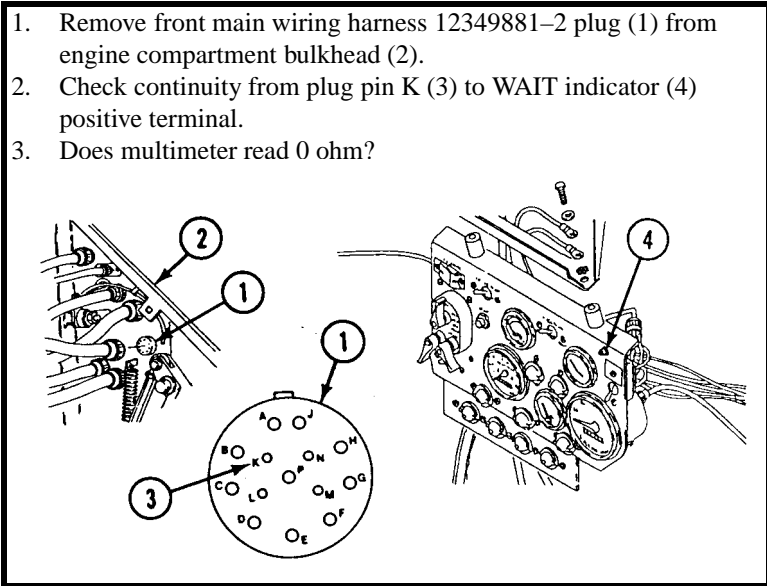
7Y

1. Remove front main wiring harness 12349881-2 plug (1) from engine compartment bulkhead (2).
2. Check continuity from plug pin K (3) to WAIT indicator (4) positive terminal.
3. Does multimeter read 0 ohm?

NO

7YN

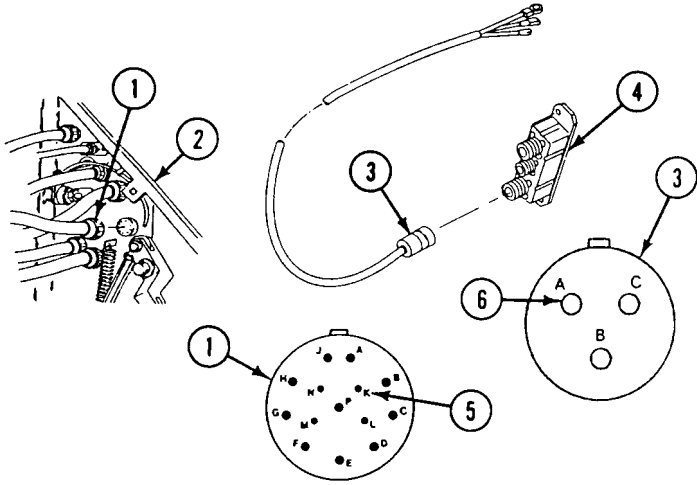
1. Faulty front main wiring harness 12349881-2. Beyond unit maintenance repair.
2. Notify supervisor.



YES

8Y

1. Remove engine wiring harness 12349873-1 plug (1) from engine compartment bulkhead (2).
2. Disconnect plug (3) from glow plug controller (4).
3. Check continuity between engine wiring harness 12349873-1 plug (1) pin K (5) and plug (3) pin A (6).
4. Does multimeter read 0 ohms?



YES

9Y

1. Replace glow plug controller (WP 0210 00).
2. Verify no faults found.

NO

8YN

1. Replace engine wiring harness 12349873-1 circuit 406A lead.
2. Verify no faults found.

ENGINE CRANKS SLOWLY

0020 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

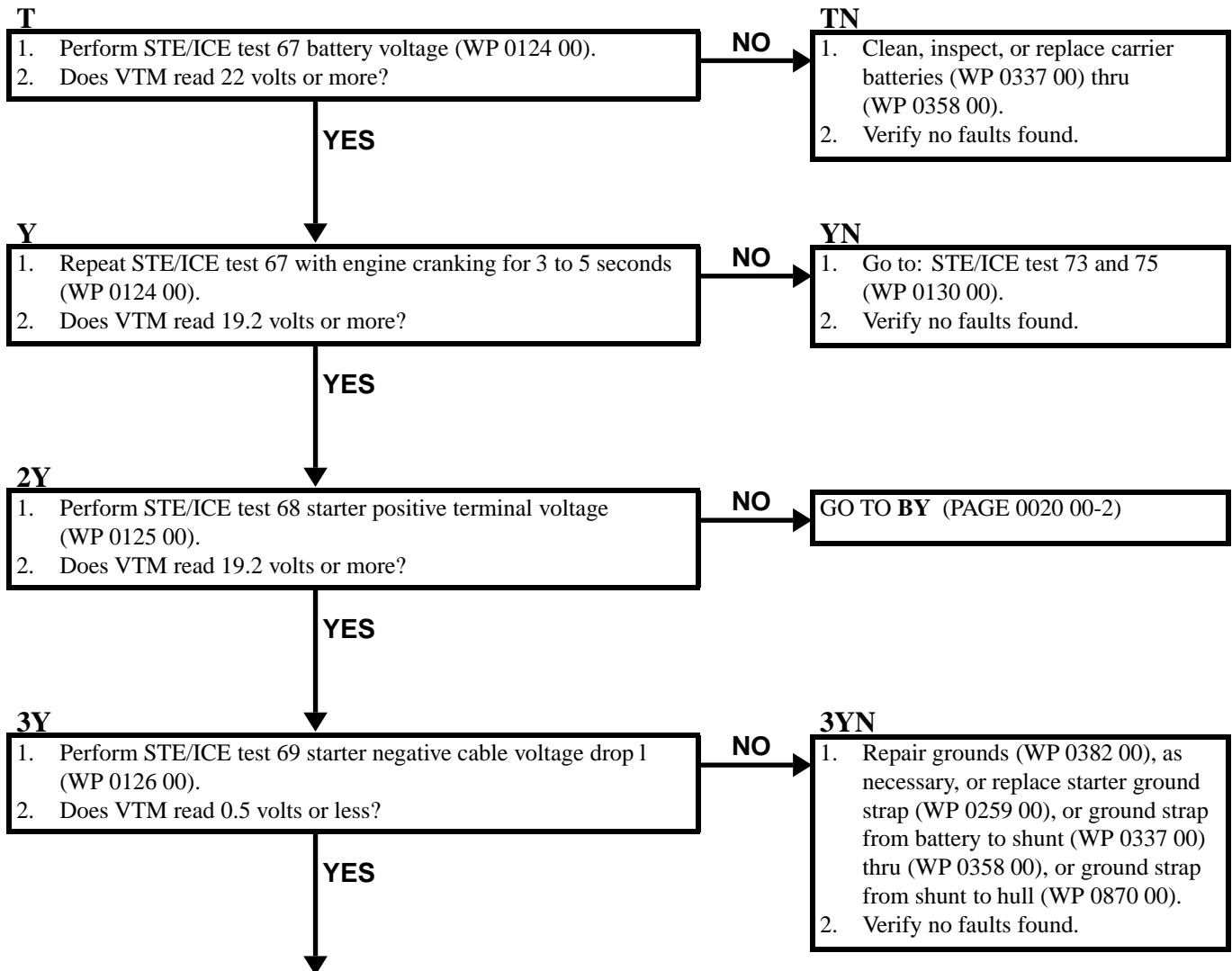
General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
STE/ICE-R test set (WP 0926 00, Item 61)

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)

Personnel Required

Unit Mech 63T10
Helper (H)



ENGINE CRANKS SLOWLY—Continued

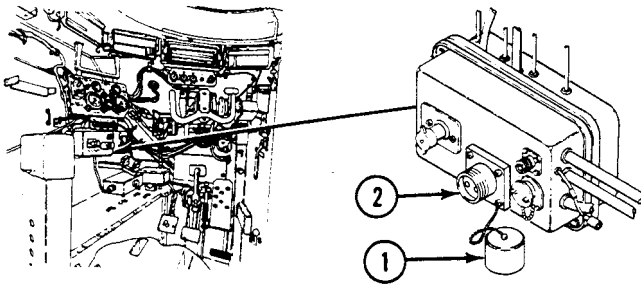
0020 00

4Y

1. Replace starter (WP 0259 00).
2. Verify no faults found.

BY

1. Remove cap (1) from slave receptacle (2).
2. Measure voltage at slave receptacle (2) on master switch panel with engine cranking for 3 to 5 seconds.
3. Does VTM read less than 19.2 volts?

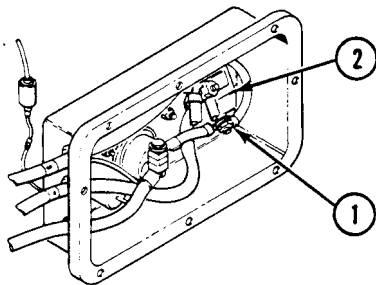


NO → GO TO CY (PAGE 0020 00-3)

YES

B2Y

1. Remove MASTER SWITCH panel (WP 0260 00) or (WP 0261 00).
2. Inspect terminal end on lead 12349945-1 (1) on switch (2).
3. Is terminal end free from corrosion and/or other damage?



NO → **B2YN**
 1. Repair or replace lead (WP 0382 00), (WP 0356 00), (WP 0357 00) or (WP 0358 00).
 2. Verify no faults found.

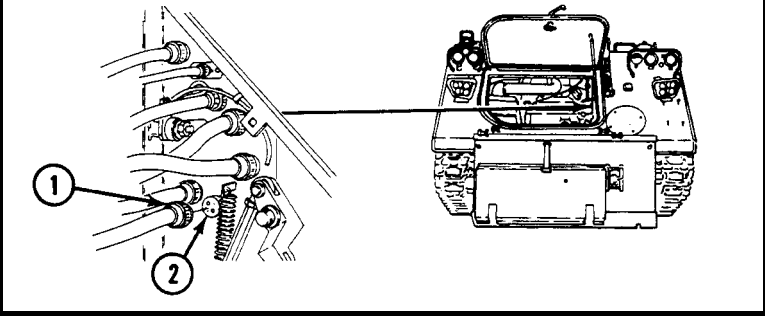
YES

B3Y

1. Replace MASTER SWITCH (WP 0261 00) or (WP 0262 00).
2. Verify no faults found.

CY

1. Remove harness 12349873 circuit 6/6A plug (2) from harness 12349881 circuit 6/6A jack (1) at vehicle bulkhead.
2. Inspect plug and jack for corrosion and/or other damage.
3. Are parts in good condition?



NO

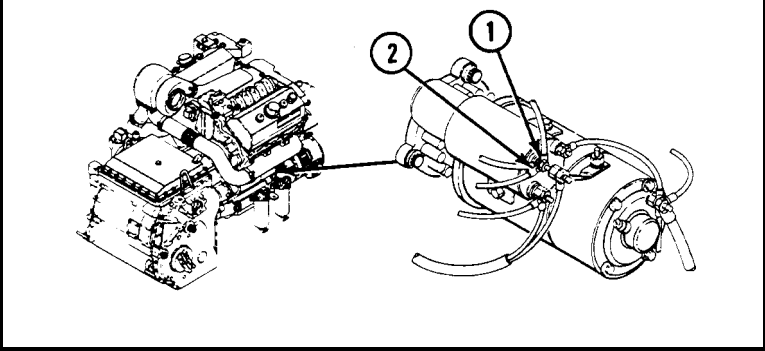
CYN

1. Faulty plug and/or jack. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Install harness 12349873 circuit 6/6A plug (1) on harness 12349881 circuit 6/6A (2) jack at vehicle bulkhead.
2. Inspect harness 12349873 circuit 6 (1) and 6A (1) terminal ends on starter.
3. Are terminal ends and leads free from corrosion and/or other damage?



NO

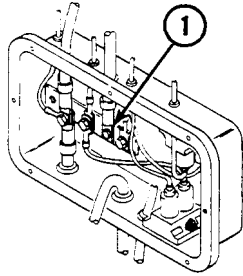
C2YN

1. Replace harness 12349873 (WP 0382 00).
2. Verify no faults found.

YES

C3Y

1. Remove MASTER SWITCH panel (WP 0260 00) or (WP 0261 00).
2. Inspect lead 12350256-1 (1) from MASTER SWITCH to distribution box.
3. Are lead and lead end free from corrosion and damage?



NO

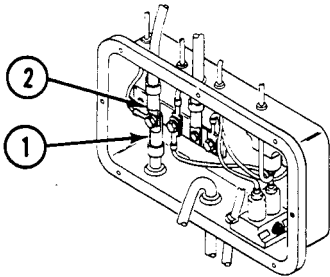
C3YN

1. Replace lead 12350256-1 (WP 0266 00) or (WP 0267 00).
2. Verify no faults found.

YES

C4Y

1. Inspect harness 12349881 circuit 6 (1) and 6A (2) leads on distribution box.
2. Are leads and lead terminal ends free of corrosion and damage?



NO

C4YN

1. Repair harness 12349881 circuit 6 and 6A (WP 0382 00).
2. Verify no faults found.

YES

C5Y

1. Install MASTER SWITCH panel (WP 0260 00) or (WP 0261 00).
2. Replace starter assembly (WP 0259 00).
3. Verify no faults found.

ENGINE CRANKS BUT WILL NOT START

0021 00

INITIAL SETUP:

Maintenance Level

Unit

References

WP 0220 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Driver's power plant access panel removed
(WP 0441 00)

Power plant rear access panels removed (WP 0439 00)

Materials/Parts

Suitable Container

Personnel Required

Mechanic

Helper (H)

T

1. Inspect condition and operation of fuel cut off cable assembly (WP 0220 00).
2. Is cable assembly in good condition and in proper adjustment?

NO

TN

1. Replace and/or adjust fuel cut off cable assembly (WP 0220 00).
2. Verify no faults found.

YES

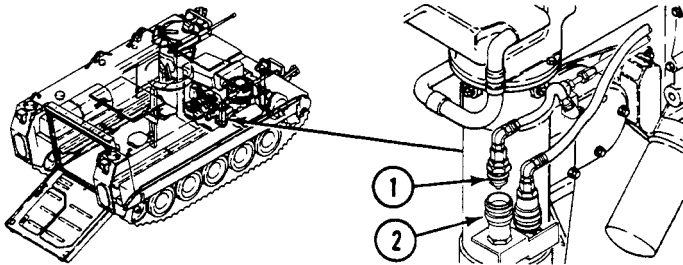
Y

1. Disconnect engine fuel return line (1) from quick disconnect fitting (2).
2. Depress plunger on quick disconnect fitting (1) in the engine fuel return line. Catch fuel in suitable container.
3. Crank engine with plunger depressed. Have helper assist.
4. Does fuel flow out while cranking engine?

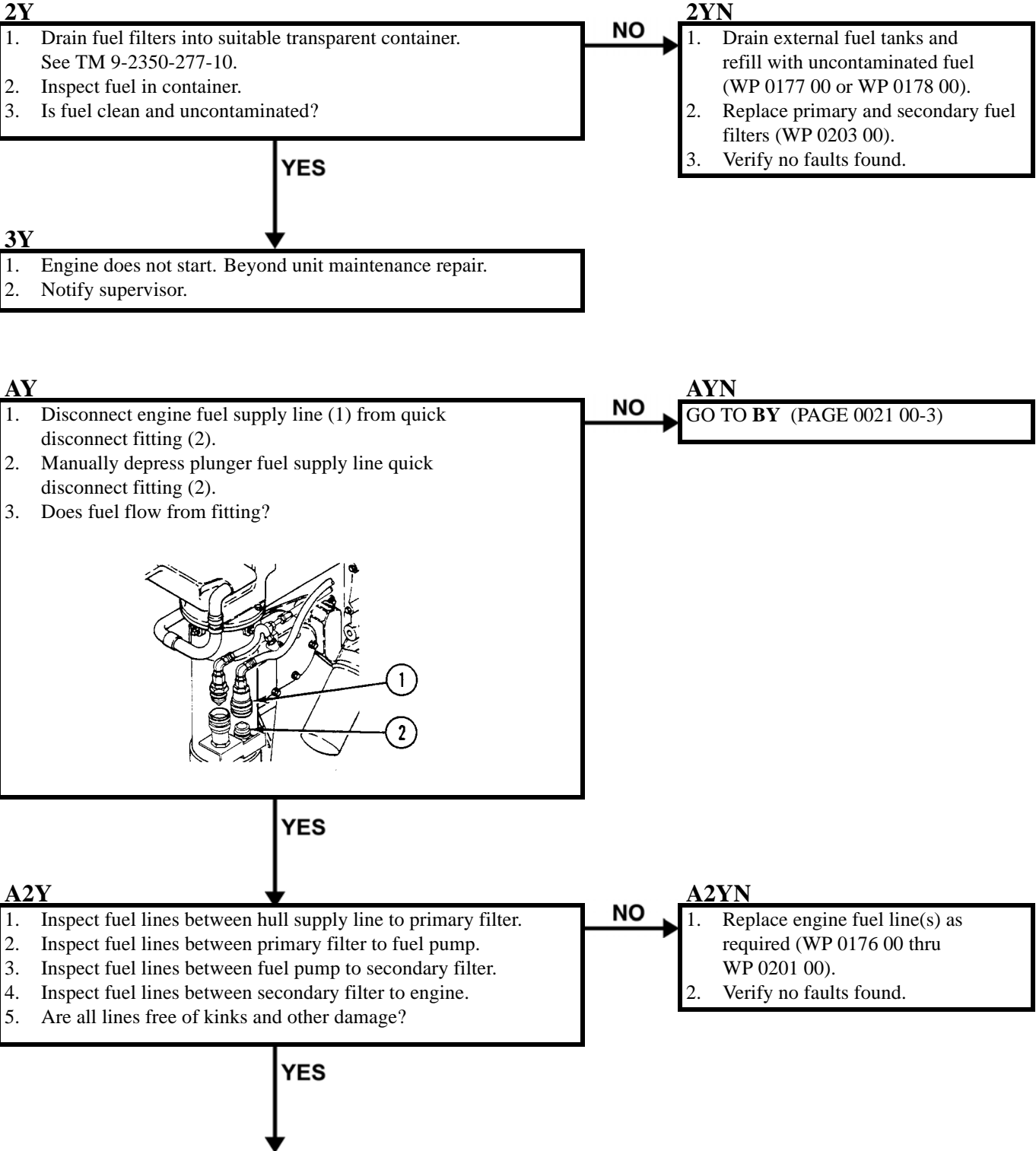
NO

YN

GO TO AY (PAGE 0021 00-2)



YES

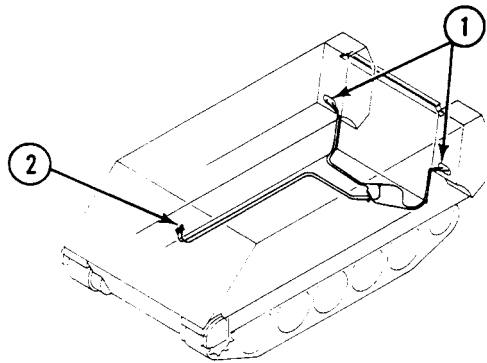


A3Y

1. Replace fuel pump (WP 0166 00).
2. Verify no faults found.

BY

1. Remove rear compartment floor plates (WP 0539 00 thru WP 0545 00).
2. Inspect fuel lines between fuel tanks (1) and quick disconnect fittings (2).
3. Are all line and fittings free from leaks and damage?



NO

BYN

1. Repair/replace fuel line(s) as required (WP 0176 00 thru WP 0201 00).
2. Verify no faults found.

YES

B2Y

1. Clear clogged fuel pick up tubes in external tanks (WP 0177 00 and WP 0178 00).
2. Verify no faults found.

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)

0022 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

Fuel tanks half full or more (see your -10)

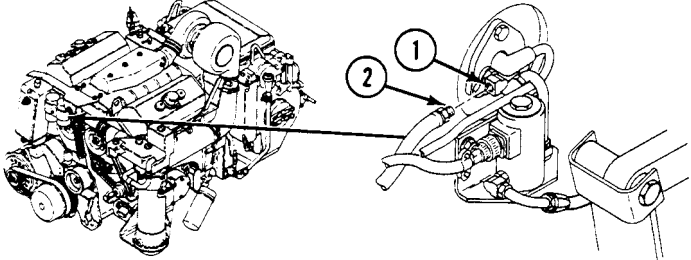
Personnel Required

Unit Mechanic

Helper (H)

T

1. Remove air pump to air box heater hose (2) from air box heater (1).
2. Turn MASTER SWITCH and AIR BOX HEATER to ON (see your -10).
3. Does air flow from end of hose?



NO

GO TO AY (PAGE 0022 00-4)

YES

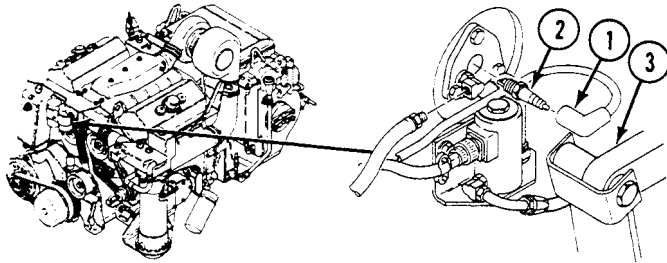


ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

Y

1. Release air box heater switch.
2. Install air pump to air box heater hose onto air box heater.
3. Remove air box igniter high voltage wire (1) and igniter (2).
4. Install high voltage wire (1) on igniter (2).
5. Ground hex portion of igniter (2) on idler pulley pivot (3).
6. Depress air box heater switch.
7. Does igniter produce a spark?



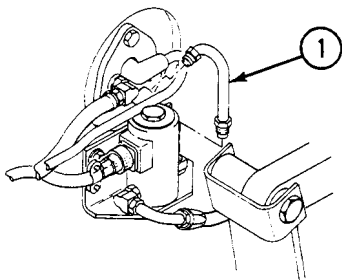
NO

GO TO BY (PAGE 0022 00-5)

YES

2Y

1. Release air box heater switch.
2. Install air box igniter.
3. Remove solenoid to air box heater tube assembly (1).
4. Depress air box heater switch with engine cranking for 5 seconds. Do not allow engine to start.
5. Does fuel fail to flow from solenoid with switch depressed?



NO

2YN

1. Air box heater is working properly.
2. Go to Engine cranks, but will not start (WP 0021 00).

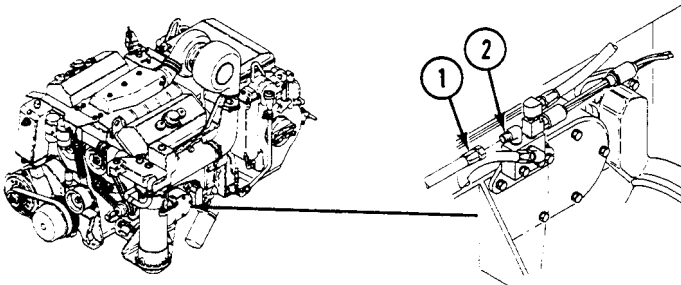
YES

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

3Y

1. Turn AIRBOX HEATER and MASTER SWITCH to OFF.
2. Remove fuel supply line to solenoid (1) at restrictor block (2).
3. Does fuel flow from restrictor block with engine cranking?



NO

3YN

1. Install fuel supply line to solenoid at restrictor block (WP 0206 00).
2. Go to engine cranks, but won't start (WP 0021 00).

YES

4Y

1. Inspect fuel supply line to solenoid.
2. Is line free from kinks or clogs?

NO

4YN

1. Replace air box fuel supply line (WP 0206 00).
2. Verify no faults found.

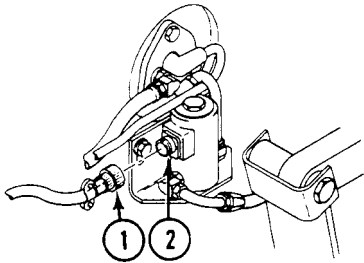
YES

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

5Y

1. Install fuel supply line to solenoid at restrictor block (WP 0206 00).
2. Remove air box heater harness plug (1) from solenoid (2).
3. Measure voltage between plug (1) pins with air box heater switch depressed.
4. Does multimeter read less than 17 volts?



NO

5YN

1. Replace air box heater fuel supply solenoid (WP 0205 00).
2. Verify no faults found.

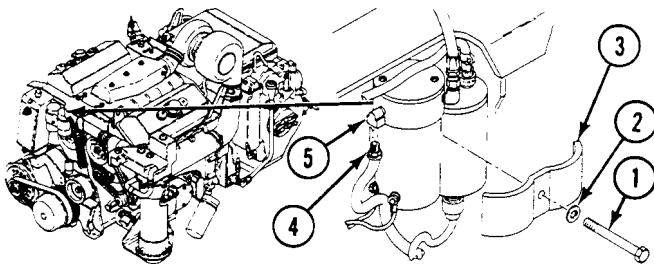
YES

6Y

1. GO TO **B4Y** (PAGE 0022 00-6).

AY

1. Turn AIRBOX HEATER and MASTER SWITCH to OFF.
2. Remove screw (1), washer (2), and bracket (3).
3. Remove air hose (4) from air pump elbow (5).
4. Is hose free from restriction and damage?



NO

AYN

1. Replace air pump to air box heater hose.
2. Verify no faults found.

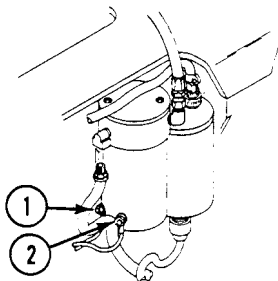
YES

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

A2Y

1. Turn MASTER SWITCH to ON.
2. Measure voltage between power lead terminals (1) on air pump (2) with air box switch depressed.
3. Does multimeter read less than 17 volts?



NO

A2YN

1. Turn MASTER SWITCH to OFF.
2. Replace air pump.
3. Verify no faults found.

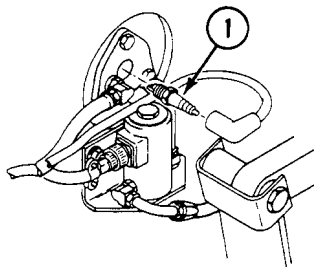
YES

A3Y

1. GO TO **B4Y** (PAGE 0022 00-6).

BY

1. Inspect igniter electrode (1).
2. Is igniter electrode free from debris and damage?



NO

BYN

1. Clean and/or replace air box heater igniter (WP 0207 00).
2. Verify no faults found.

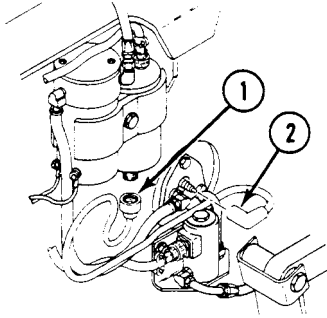
YES

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

B2Y

1. Install air box igniter (WP 0207 00).
2. Remove ignition wire (1).
3. Measure resistance between wire ends (1) and (2).
4. Is ignition wire in good condition and measure 0 ohms?



NO

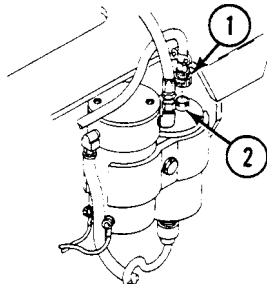
B2YN

1. Replace igniter wire (WP 0204 00).
2. Verify no faults found.

YES

B3Y

1. Install ignition wire on igniter (WP 0204 00).
2. Remove air box heater harness plug (1) from ignition coil (2).
3. Depress air box heater switch.
4. Measure voltage between air box heater harness plug (1) pins then release switch.
5. Does multimeter read less than 17 volts with switch depressed?



NO

B3YN

1. Replace ignition coil (WP 0208 00).
2. Verify no faults found.

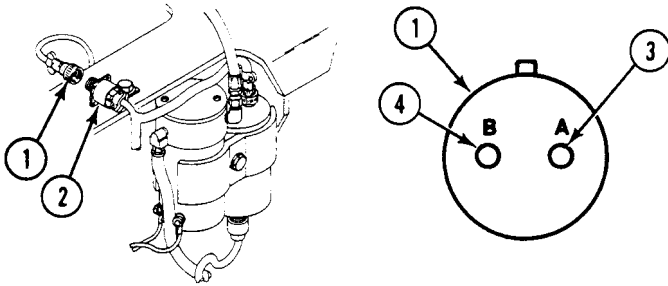
YES

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

B4Y

1. Install solenoid to air box heater fuel line, if removed.
2. Install hose on air pump elbow, if removed.
3. Install bracket, screw, and washer on air pump, if removed.
4. Install air box heater harness plug on ignition coil, if removed.
5. Remove harness 12349873 plug (1) from air box heater harness jack (2).
6. Turn MASTER SWITCH to ON.
7. Measure voltage between harness 12349873 plug (1) pin A (3) to ground and pin B (4) to ground with air box heater switch depressed.
8. Does multimeter read less than 17 volts either time?



NO

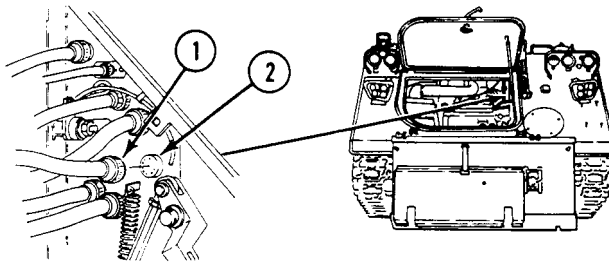
B4YN

1. Turn MASTER SWITCH to OFF.
2. Replace air box heater wiring harness (WP 0205 00).
3. Verify no faults found.

YES

B5Y

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Measure voltage between harness 12349881 jack (2) pin C (3) and ground with air box heater switch depressed.
3. Does multimeter read less than 17 volts?



NO

B5YN

1. Turn MASTER SWITCH to OFF.
2. Replace harness 12349873 (WP 0359 00).
3. Verify no faults found.

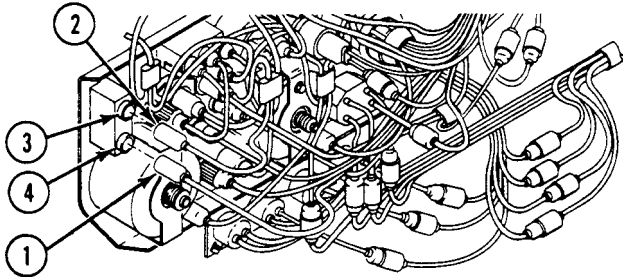
YES

ENGINE CRANKS BUT WON'T START BELOW 40° (AIR BOX HEATER IS USED)—Continued

0022 00

B6Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access. See task: remove instrument panel mounts and ground leads (WP 0295 00).
3. Remove circuits 406 (1) and 27C (2) plugs from air box heater switch jacks (3) and (4).
4. Measure resistance between switch jacks (3) and (4) with air box heater switch depressed.
5. Does multimeter read 0 ohms?



NO

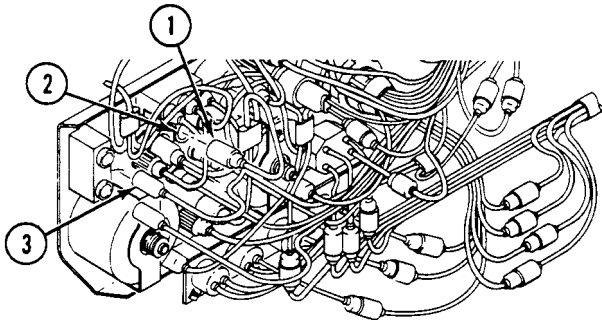
B6YN

1. Replace air box heater switch (WP 0282 00).
2. Verify no faults found.

YES

B7Y

1. Remove circuit 27 plug (1) from instrument panel circuit breaker (2).
2. Measure resistance between cable assembly 12349858 circuit 27 (1) and 27C (3) plug pins.
3. Does multimeter read 0 ohms?



NO

B7YN

1. Repair special purpose cable 12349858 circuit 27C/27 (WP 0382 00).
2. Verify no faults found.

YES

B8Y

1. Repair harness 12349881 circuit 406 (WP 0382 00).
2. Verify no faults found.

ENGINE CRANKS BUT WON'T START BELOW 40°F (GLOW PLUGS ARE USED)

0023 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

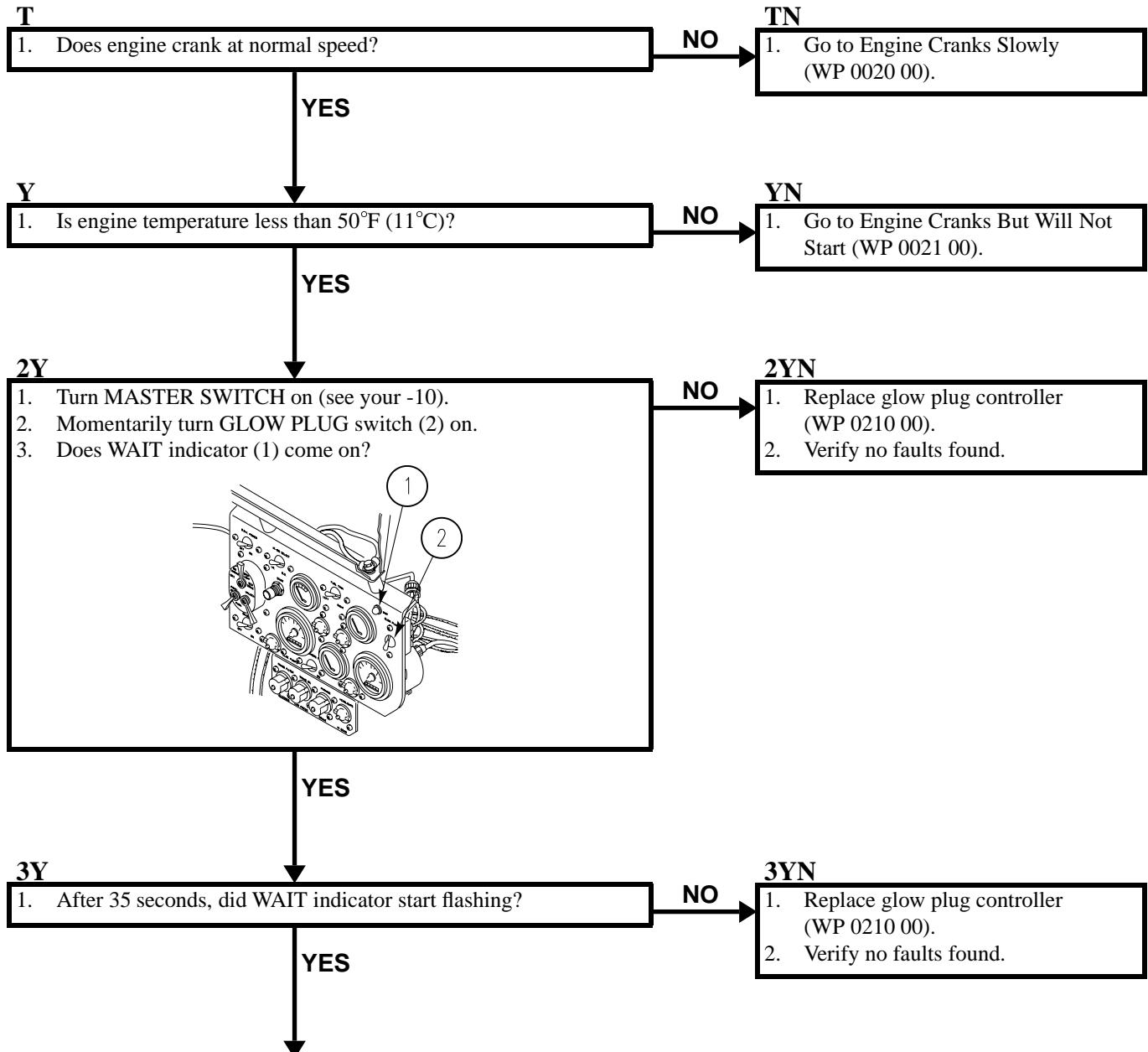
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)

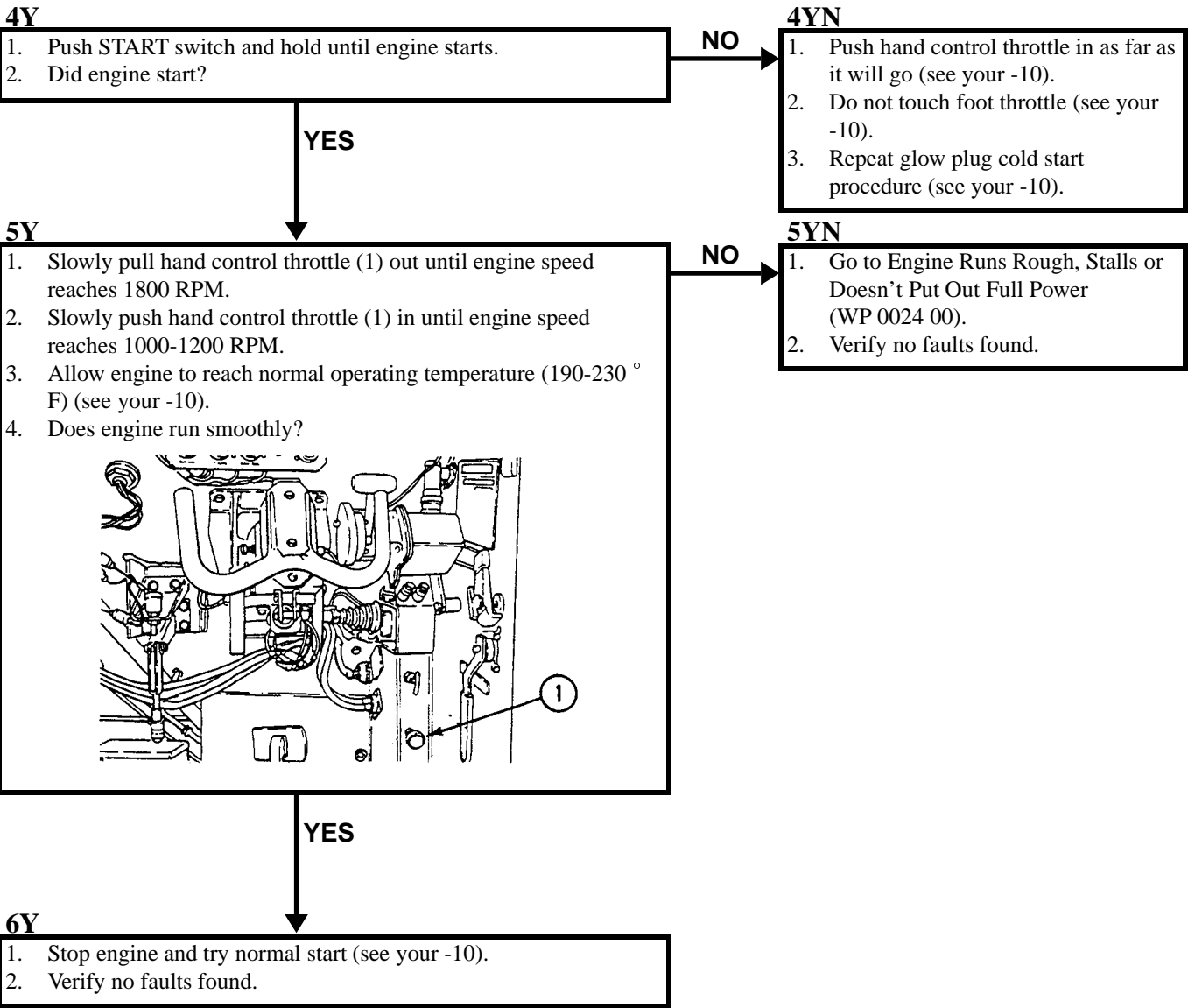
Personnel Required

Unit Mechanic



ENGINE CRANKS BUT WON'T START BELOW 40°F (GLOW PLUGS ARE USED)—Continued

0023 00



ENGINE RUNS ROUGH, STALLS, OR DOESN'T PUT OUT FULL POWER

0024 00

INITIAL SETUP:

Maintenance Level

Unit

References

WP 0121 00

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- MSD/ICE Test Set (WP 0926 00, Item 61)

Equipment Condition

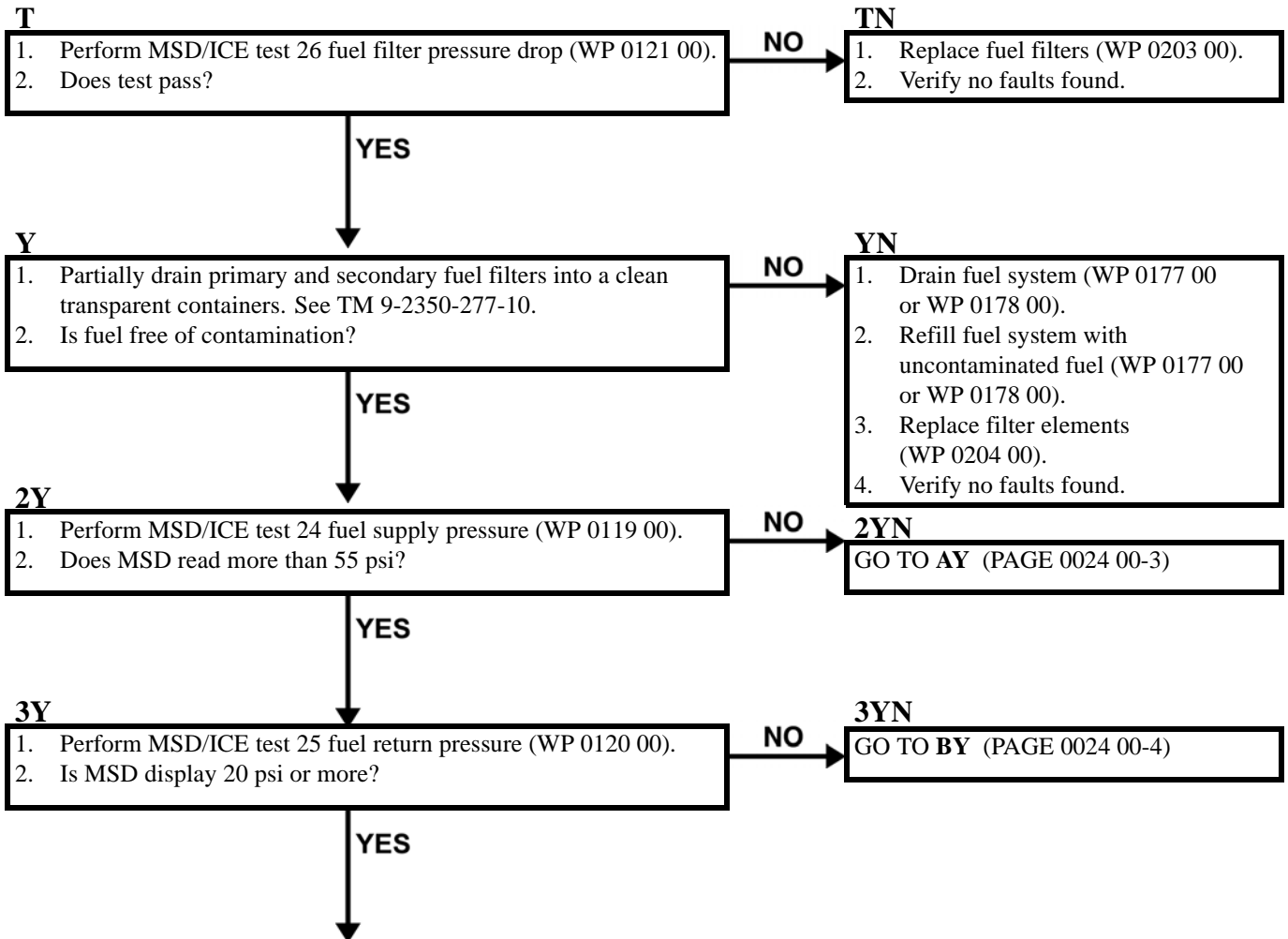
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Power plant rear access panels removed (WP 0439 00)
- Rear floor plates removed (WP 0539 00, WP 0542 00, WP 0543 00, WP 0544 00, or WP 0545 00)

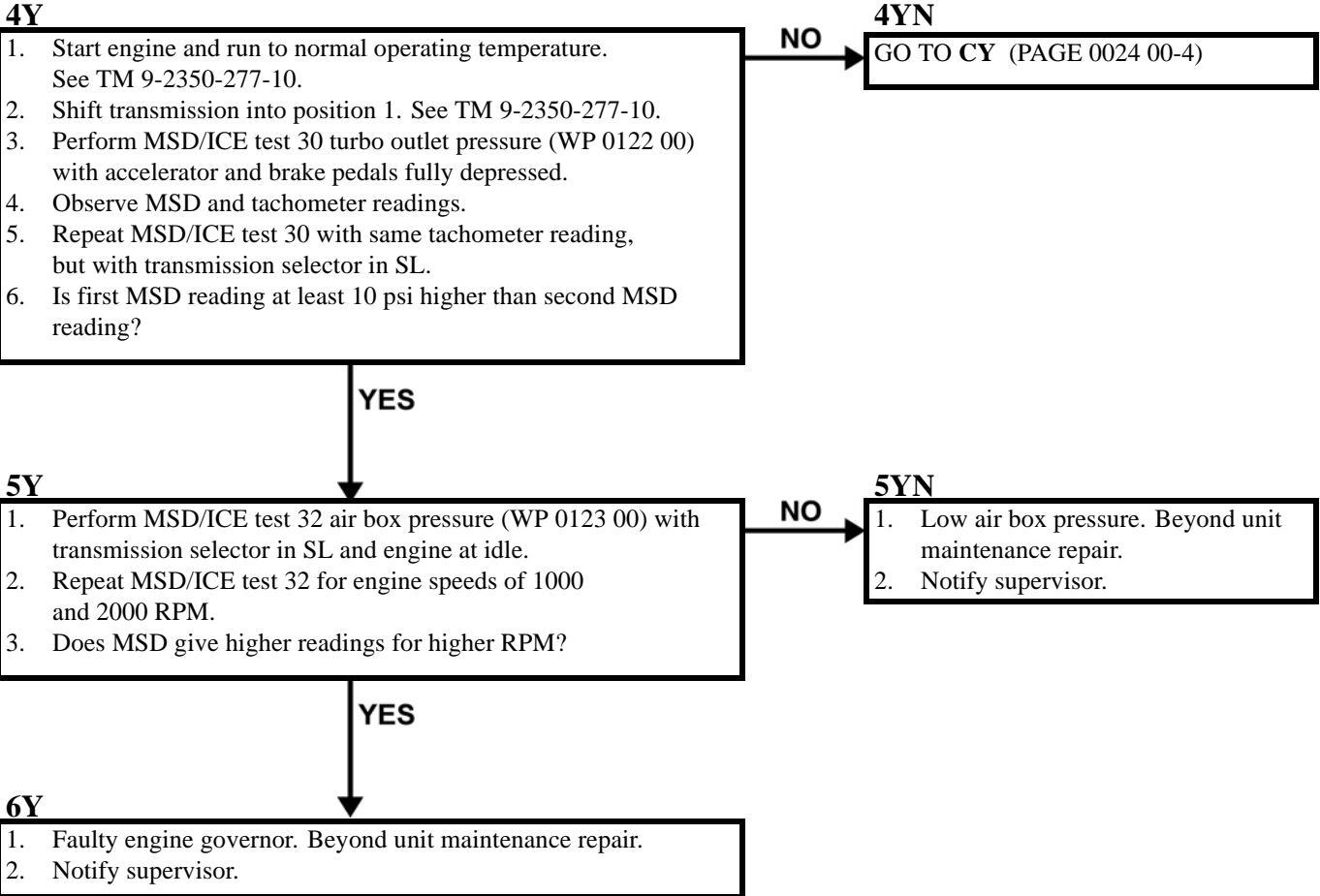
Materials/Parts

Suitable Container

Personnel Required

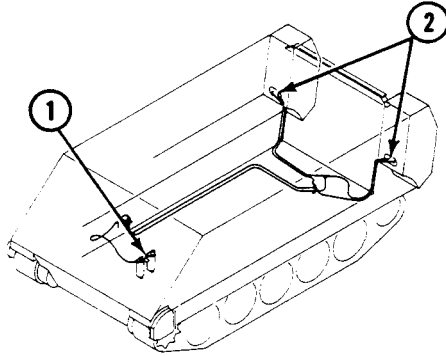
- Mechanic
- Helper (H)





AY

1. Inspect fuel lines between second fuel filter (1) and fuel tanks (2).
2. Are all lines and fittings free from kinks and leaks?



NO

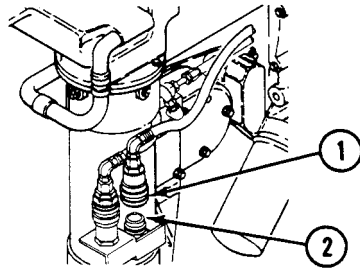
AYN

1. Replace fuel lines and/or fittings as needed (WP 0176 00 thru WP 0201 00).
2. Verify no faults found.

YES

A2Y

1. Disconnect engine fuel supply line (1) from quick disconnect fitting (2).
2. Manually depress plunger on fuel supply quick disconnect fitting (2).
3. Does fuel flow freely from fitting?



NO

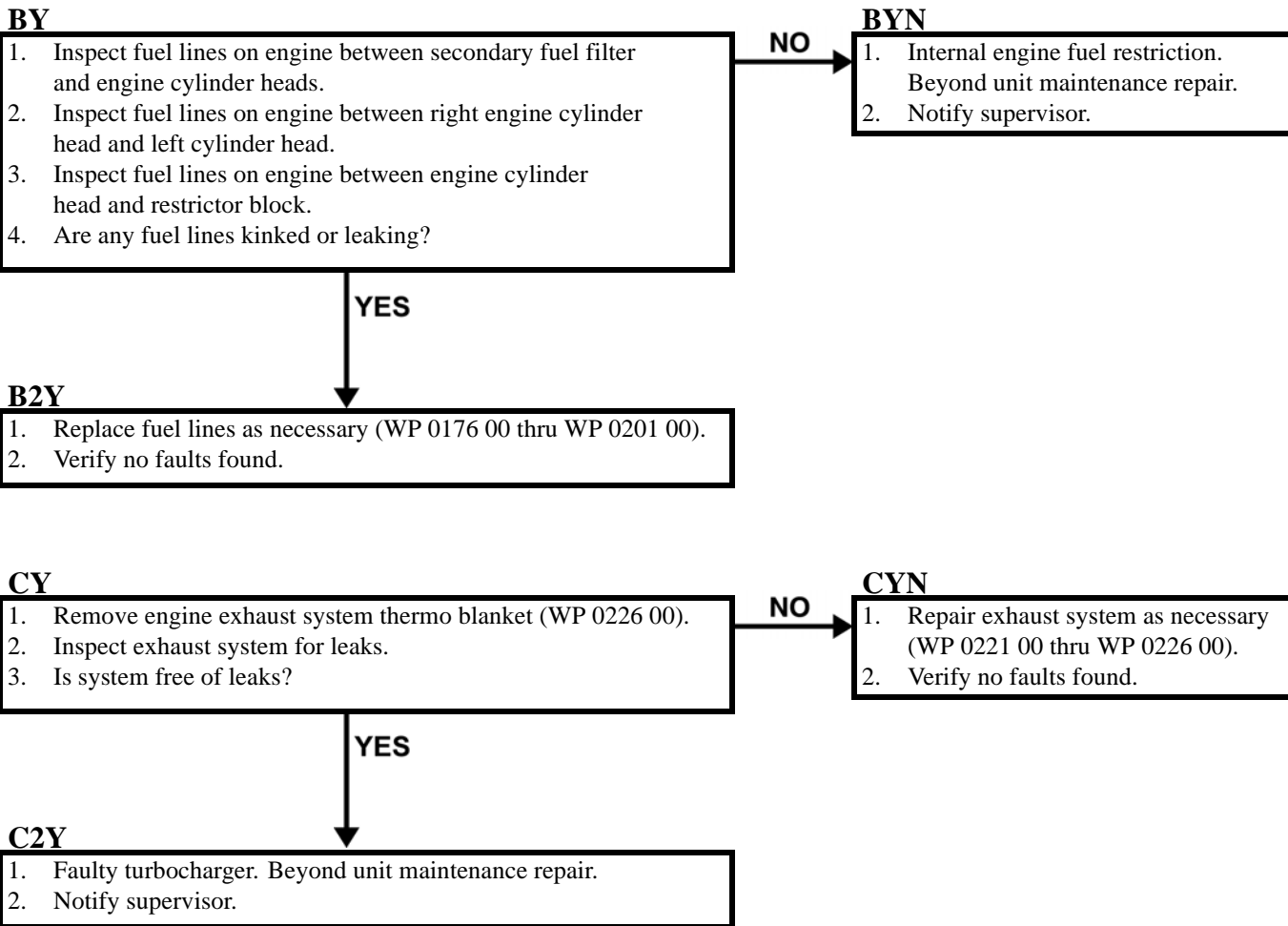
A2YN

1. Unclog fuel pick up tubes in fuel tanks (WP 0179 00 or WP 0180 00).
2. Verify no faults found.

YES

A3Y

1. Replace engine fuel pump (WP 0166 00).
2. Verify no faults found.



GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR

0025 00

INITIAL SETUP:

Maintenance Level

Unit

References

WP 0124 00

Tools and Special Tools

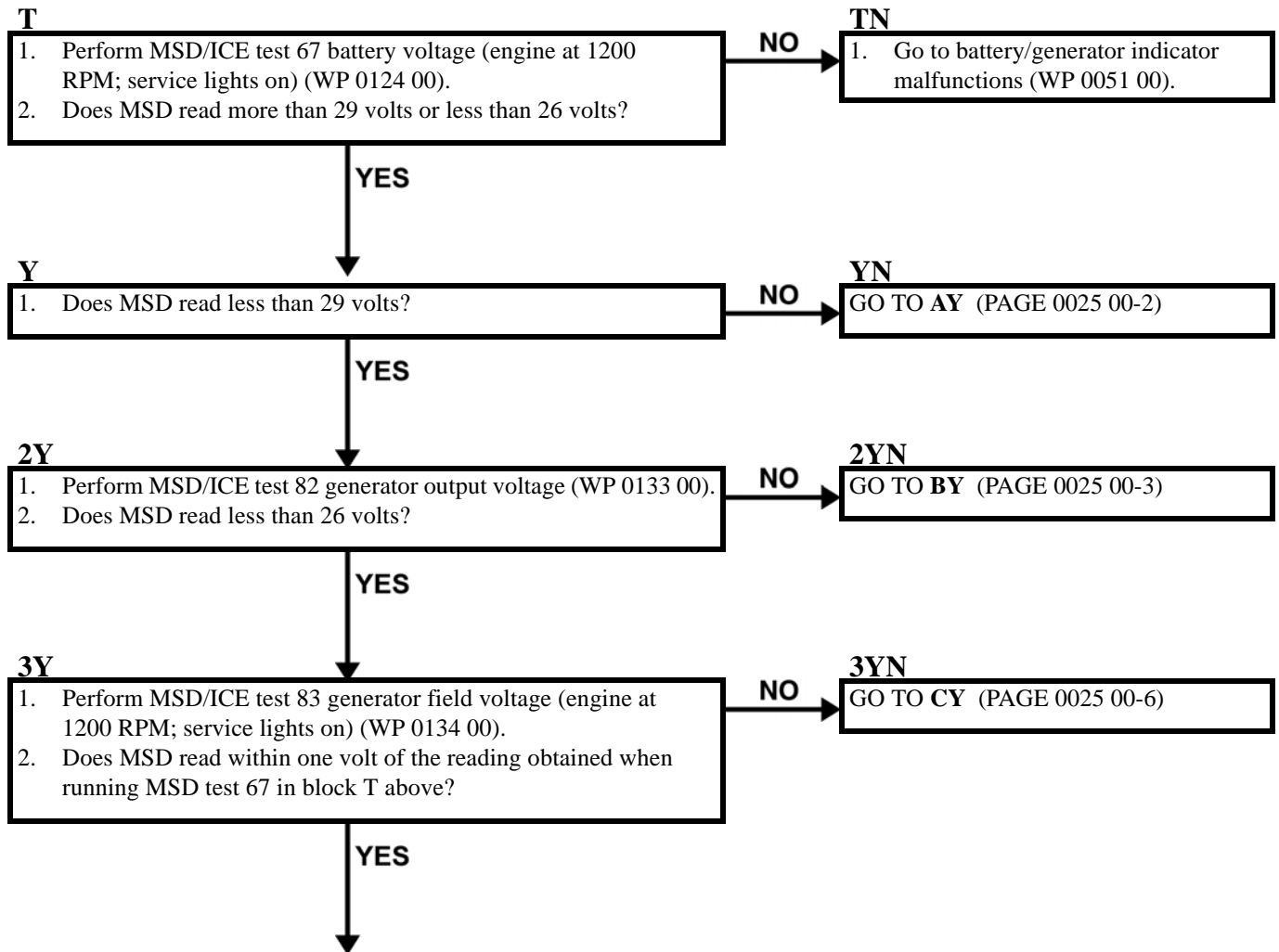
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)

Personnel Required

- Mechanic
- Helper (H)

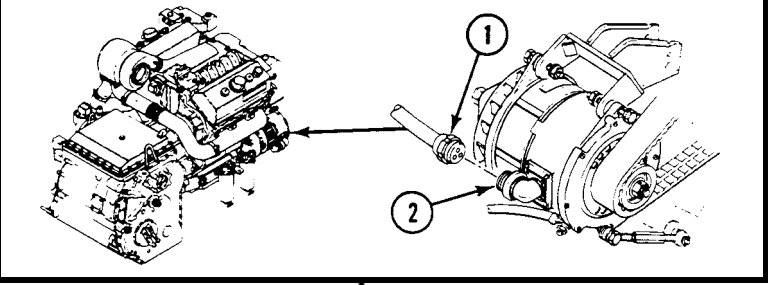


GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

4Y

1. Disconnect battery ground strap/lead(s) (WP 0337 00 or WP 0338 00).
2. Remove harness 12349873 plug (1) from generator jack (2).
3. Inspect harness plug pins for corrosion or damage.
4. Is plug free from corrosion and damage?



NO

4YN

1. Replace harness, see Table of Contents.
2. Verify no faults found.

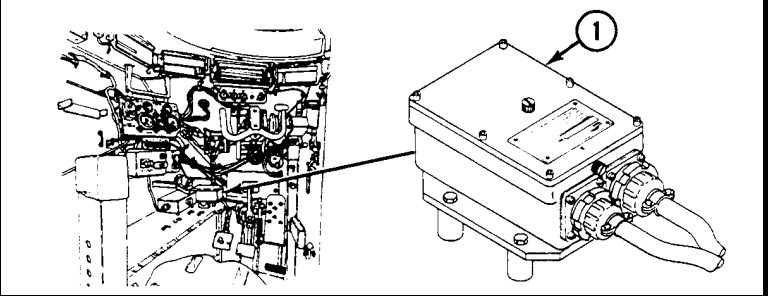
YES

5Y

1. Replace generator (WP 0255 00).
2. Verify no faults found.

AY

1. Measure resistance between regulator housing (1) and ground. Use MSD.
2. Does MSD read 0 ohms?



NO

AYN

1. Remove regulator (WP 0257 00) and clean ground contact (bolted surface).
2. Install regulator (WP 0257 00).
3. Verify no faults found.

YES

A2Y

1. Has regulator been adjusted?

NO

A2YN

1. Adjust voltage regulator (WP 0256 00).
2. Verify no faults found.

YES

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

A3Y

1. Has regulator been replaced?

NO

A3YN

1. Replace regulator (WP 0257 00).
2. Verify no faults found.

YES

A4Y

1. Replace generator (WP 0255 00).
2. Verify no faults found.

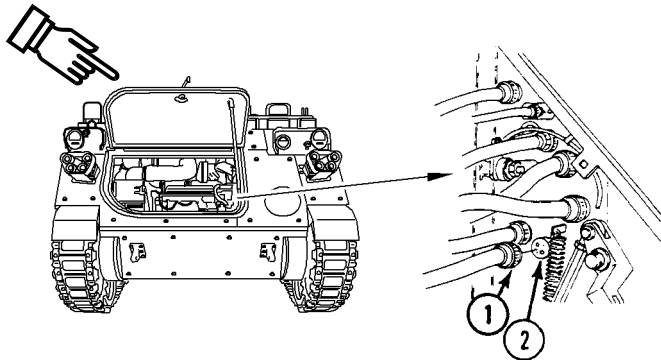
BY

1. Disconnect battery ground strap/lead(s) (WP 0337 00 or WP 0338 00).
2. Remove harness 12349873 plug (1) from harness 12349881 jack (2).
3. Inspect plugs and jacks for damage or corrosion.
4. Are plugs and jacks free from corrosion and damage?

NO

BYN

1. Replace harness 12349873, see Table of Contents.
2. Verify no faults found.



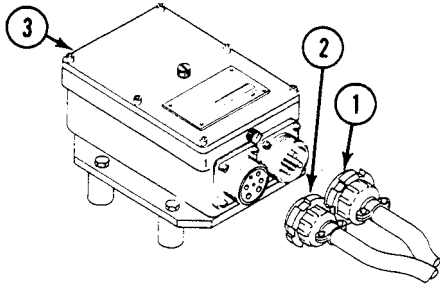
YES

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

B2Y

1. Remove harness 12349881 plugs (1) and (2) from voltage regulator (3).
2. Inspect all plug and jack pins for corrosion or damage.
3. Are plugs and jacks free from corrosion and damage?



NO

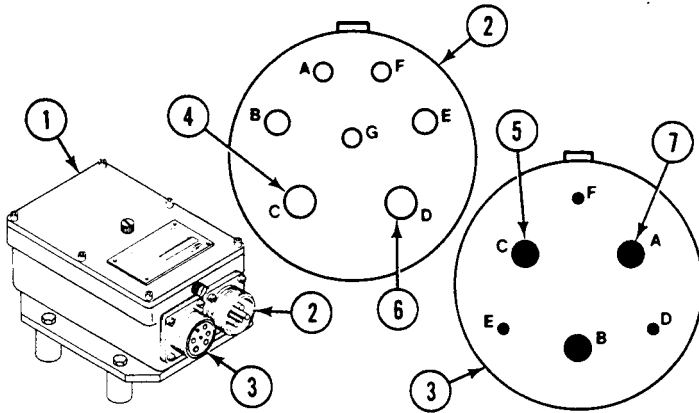
B2YN

1. Faulty harness 12349881 plug or jack. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B3Y

1. Measure resistance on regulator (1), between jacks (2) and (3); Measure between socket C (4) and pin C (5). Measure between socket D (6) and pin A (7).
2. Does MSD read 0 ohms?



NO

B3YN

1. Replace regulator (WP 0257 00).
2. Verify no faults found.

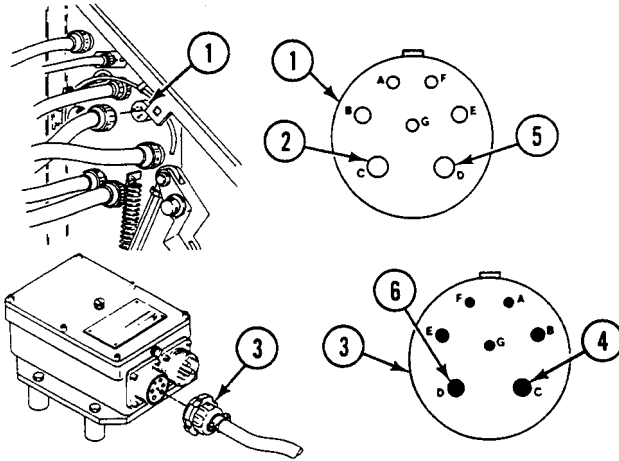
YES

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

B4Y

1. Measure resistance between harness 12349881 bulkhead jack (1) socket C (2), and regulator plug (3) pin C (4).
2. Measure resistance between harness 12349881 bulkhead jack (1) socket D (5), and regulator plug (3) pin D (6).
3. Is reading 0 ohms for both measurements?



YES

B4YN

1. Faulty harness 12349881 circuit 2/2A. Beyond unit maintenance repair.
2. Notify supervisor.

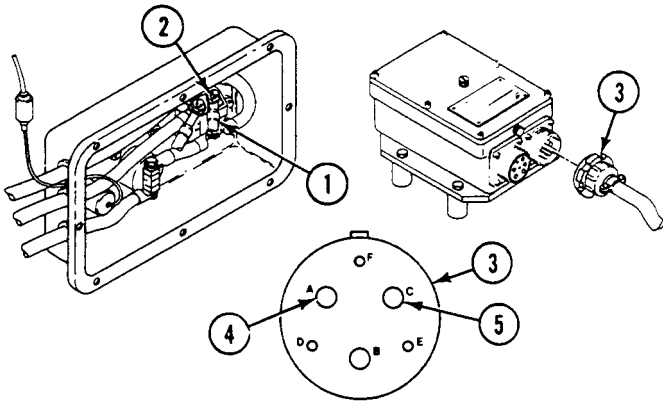
NO

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

B5Y

1. Remove master switch panel (WP 0260 00 or WP 0261 00).
2. Measure resistance between harness 12349881 circuit 2/2A (1) between master switch terminal (2) and regulator plug (3) sockets A (4) and C (5).
3. Does MSD read 0 ohms?



NO

B5YN

1. Faulty harness 12349881 circuit 2/2A. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B6Y

1. Replace circuit 6 lead (WP 0356 00, WP 0357 00, or WP 0358 00).
2. Verify no faults found.

CY

1. Has regulator been adjusted?

NO

CYN

1. Adjust voltage regulator (WP 0256 00).
2. Verify no faults found.

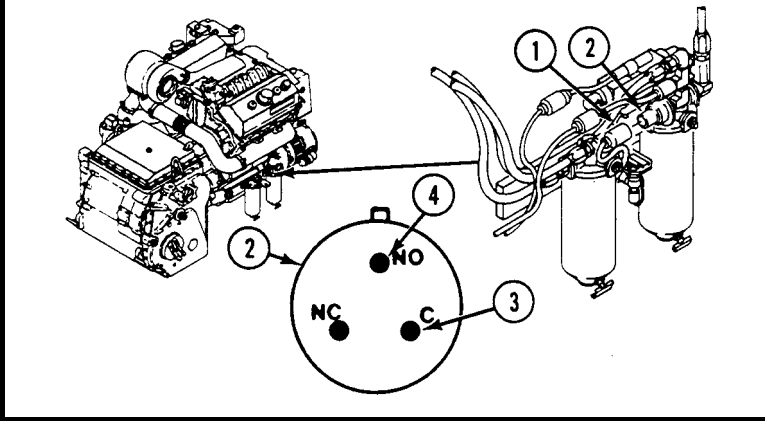
YES

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

C2Y

1. Remove harness 12349873 plug (1) from generator field switch (2).
2. Start engine. See TM 9-2350-277-10.
3. Measure resistance across switch (2) pins (3) and (4) with engine idling. Use MSD.
4. Does MSD read 0 ohms?



YES

C2YN

1. Stop engine. See TM 9-2350-277-10.
2. Replace generator field switch (WP 0323 00).
3. Verify no faults found.

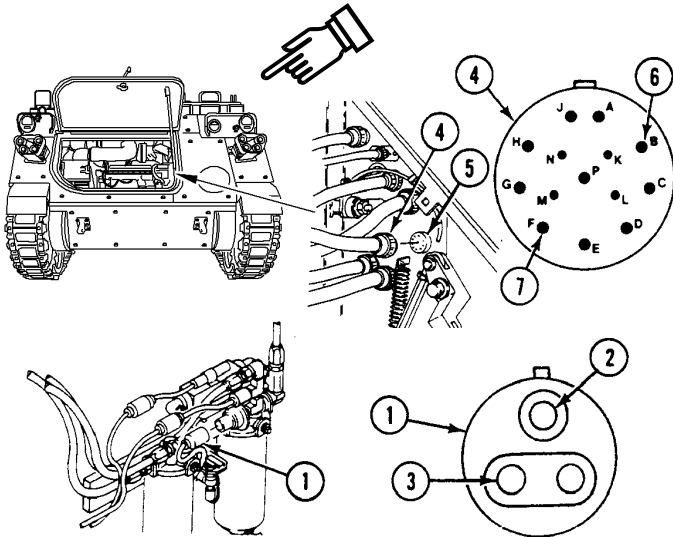
NO

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

C3Y

1. Stop engine. See TM 9-2350-277-10.
2. Install jumper wire on harness 12349873 generator field switch plug (1) between sockets (2) and (3).
3. Remove harness 12349873 plug (4) from harness 12349881 jack (5).
4. Measure resistance between harness 12349873 plug (4) pins B (6) and F (7).
5. Does MSD read 0 ohms?



NO

C3YN

1. Replace harness 12349873.
2. Verify no faults found.

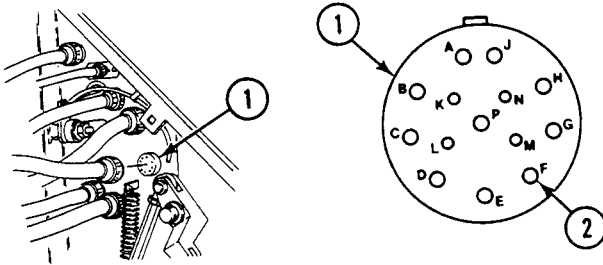
YES

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

C4Y

1. Remove jumper wire and install harness 12349873 plug on field switch.
2. Perform MSD/ICE test 67 (MASTER SWITCH ON, engine OFF) (WP 0124 00). Record reading.
3. Set up MSD/ICE test 89. See TM 9-4910-571-12&P .
4. Measure voltage between harness 12349881 jack (1) socket F (2) and ground with MASTER SWITCH ON.
5. Is MSD reading within one volt of MSD reading for MSD/ICE test 67?



YES



NO

C4YN

1. Faulty harness 12349881 circuit 1C. Beyond unit maintenance repair.
2. Notify supervisor.



GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

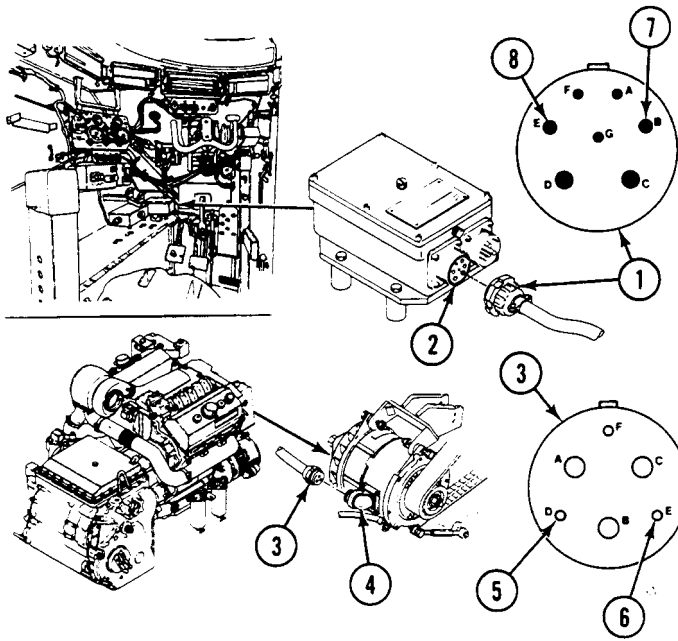
C5Y

1. Turn MASTER SWITCH to OFF.
2. Install harness 12349873 plug on harness 12349881 jack.
3. Remove harness 12349881 circuit 1/1A/2/2A plug (1) from regulator jack (2).
4. Remove harness 12349873 plug (3) from generator jack (4).
5. Install jumper wire between generator plug (3) sockets D (5) and E (6).
6. Measure resistance between harness 12349881 regulator plug (1) pins B (7) and E (8).
7. Does MSD read more than 0 ohms?

NO

C5YN

1. Remove jumper wire and install harness 12349873 plug on generator jack.
2. Replace regulator (WP 0257 00).
3. Verify no faults found.



YES

GENERATOR MALFUNCTIONS AS INDICATED BY BATTERY/GENERATOR INDICATOR — Continued

0025 00

C6Y

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at bulkhead.
2. Measure resistance between harness 12349873 plug (1) pins B (3) and E (4).
3. Does MSD read 0 ohms?

NO

C6YN

1. Remove jumper wire and install harness 12349873 plug on generator jack.
2. Faulty harness 12349873 circuit 1/1A. Beyond unit maintenance repair.
3. Notify supervisor.

YES

C7Y

1. Remove jumper wire and install harness 12349873 plug on generator jack.
2. Faulty harness 12349881 circuit 1/1A. Beyond unit maintenance repair.
3. Notify supervisor.

ENGINE OIL LOW PRESSURE INDICATOR COMES ON

0026 00

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Engine warm
- Transmission in SL position
- Engine oil level checked (WP 0155 00)
- Engine idle speed checked (WP 0118 00)

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Pressure Test Kit (WP 0926 00, Item 35)

Personnel Required

Mechanic

References

- TM 9-2350-277-10
- WP 0320 00

T

1. Remove engine low oil pressure switch (WP 0320 00).
2. Install adapter and pressure tester.
3. Start engine and let idle. See TM 9-2350-277-10.
4. Does pressure tester read less than 13 psi?

NO

TN

1. Go to engine oil low pressure indicator malfunctions (WP 0055 00).

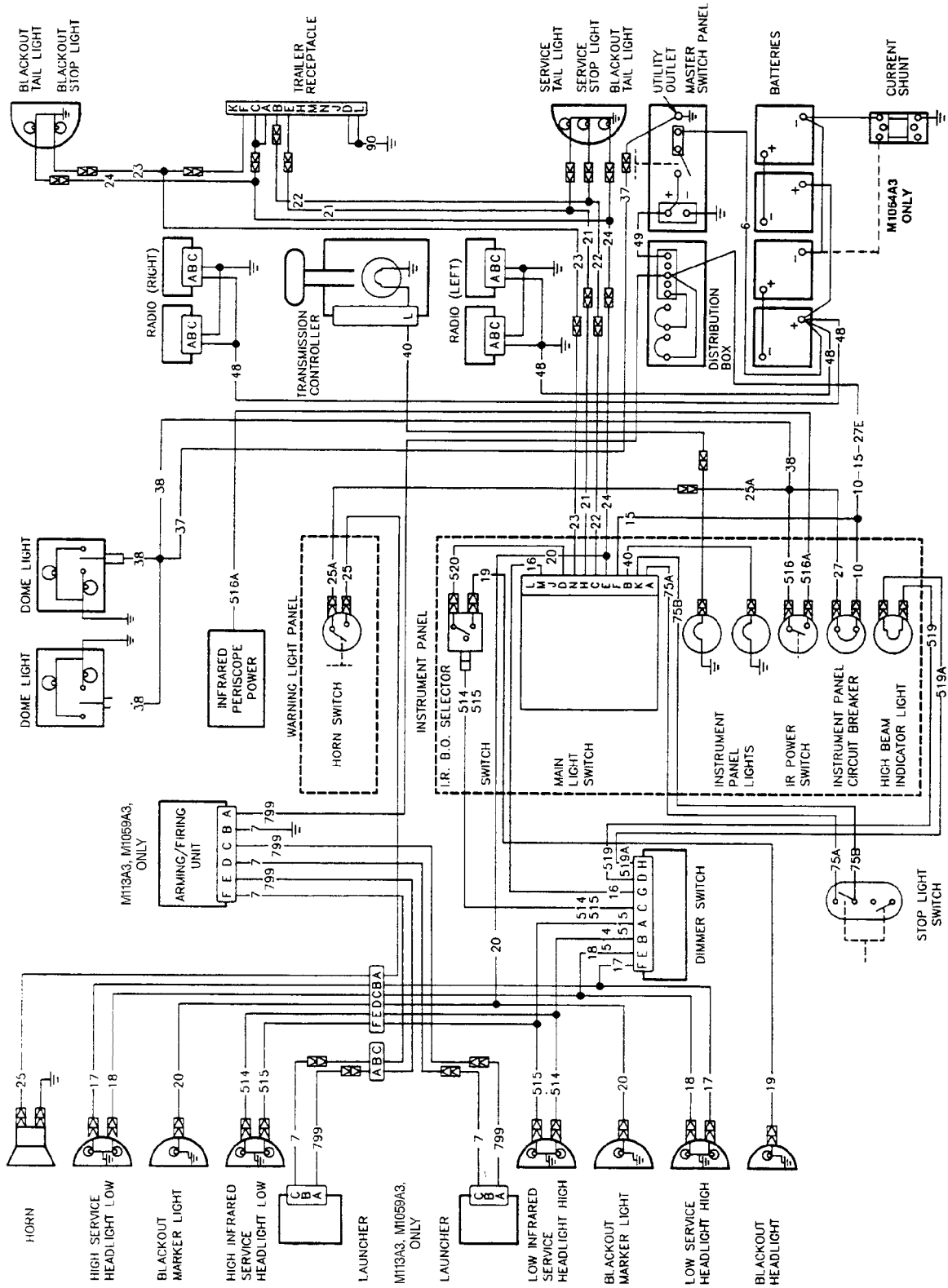
YES

Y

1. Low engine oil pressure. Beyond unit maintenance repair.
2. Notify supervisor.

ELECTRICAL SCHEMATIC

0027 00



NO EXTERIOR LIGHTS OPERATE

0029 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)

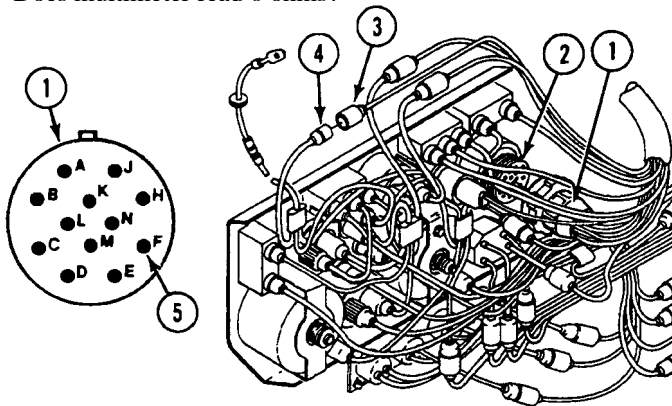
Carrier blocked (see your -10)

Personnel Required

Unit Mechanic 63T10

T

1. Remove instrument panel for access. See task: remove instrument panel mounts and ground lead (WP 0295 00).
2. Remove harness 12349881 plug (1) from lighting control switch (2).
3. Remove harness 12349881 circuit 15 plug (3) from harness 10933038 circuit 15 jack (4).
4. Measure resistance between harness 12349881 circuit 15 plug (3) and lighting control switch plug (1) pin F (5).
5. Does multimeter read 0 ohms?



NO

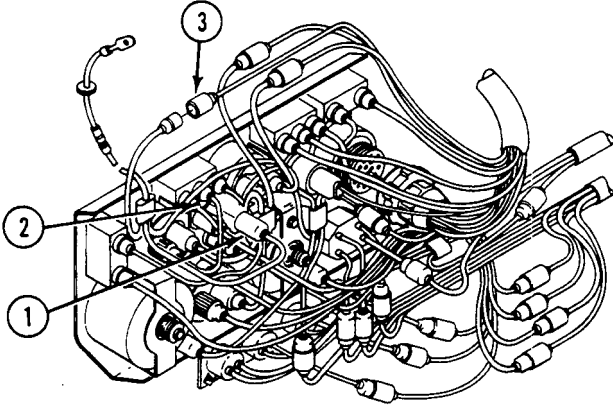
TN

1. Repair circuit 15 (WP 0382 00).
2. Verify no faults found.

YES

Y

1. Remove harness 10933038 circuit 10 plug (1) from instrument panel circuit breaker (2).
2. Measure resistance between harness 10933038 circuit 15 plug (3) and circuit 10 plug (1).
3. Does multimeter read 0 ohms?



NO

YN

1. Install harness 12349881 lighting control switch plug on switch.
2. Replace harness 10933038 (WP 0289 00).
3. Verify no faults found.

YES

2Y

1. Install harness 10933038 circuit 10 and 15 plugs.
2. Replace lighting control switch (WP 0282 00).
3. Verify no faults found.

BLACKOUT DRIVE LIGHT DOESN'T WORK

0030 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

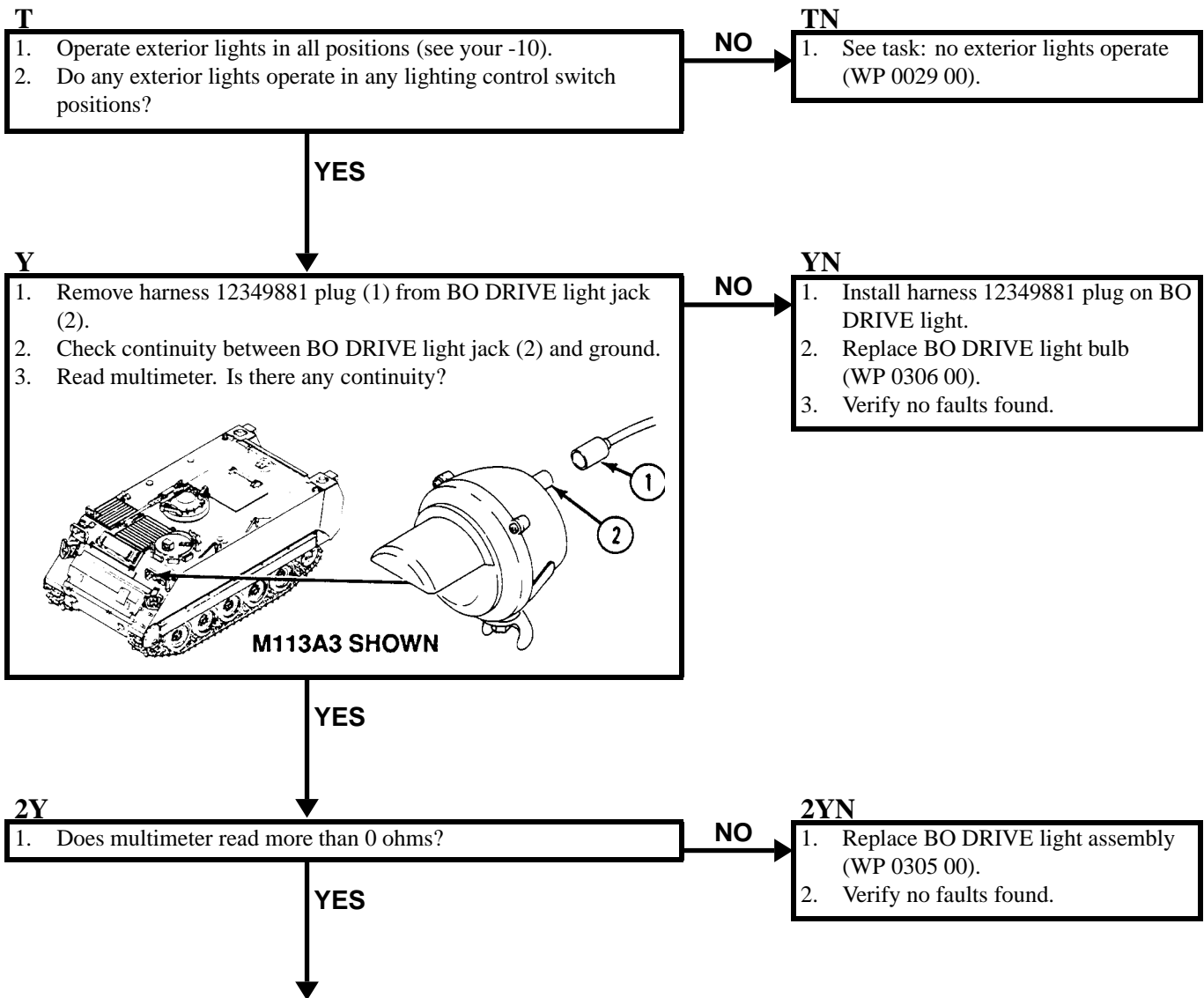
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- IR/BO selector on BO

Personnel Required

- Unit Mechanic 63T10
- Helper (H)

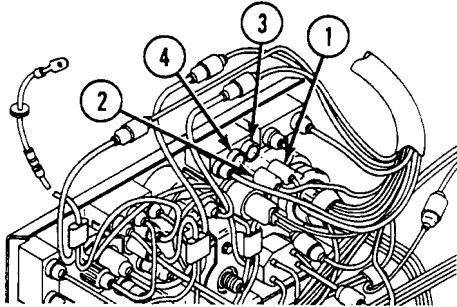


BLACKOUT DRIVE LIGHT DOESN'T WORK—Continued

0030 00

3Y

1. Install harness 12349881 plug on BO DRIVE light.
2. Remove instrument panel for access. See task: remove instrument panel mounts and ground lead (WP 0295 00).
3. Remove harness 12349881 circuit 19 (1) and 520 (2) from IR/BO selector jacks (3) and (4).
4. Measure resistance between IR/BO selector jack (3) and (4).
5. Does multimeter read 0 ohms?



NO

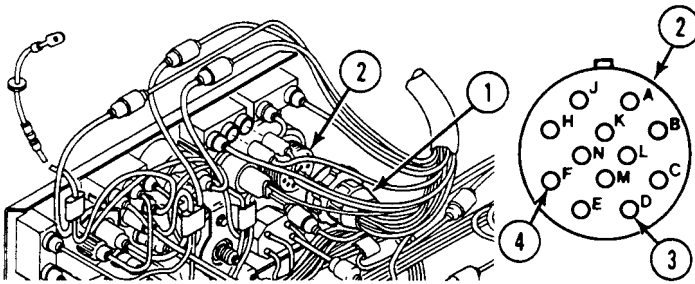
3YN

1. Install harness 12349881 plug on BO DRIVE light.
2. Replace IR/BO selector switch (WP 0282 00).
3. Verify no faults found.

YES

4Y

1. Remove harness 12349881 plug (1) from light control switch jack (2).
2. Turn switch to BO DRIVE.
3. Measure resistance between light control switch jack (2) pins D (3) and F (4).
4. Does multimeter read 0 ohms?



NO

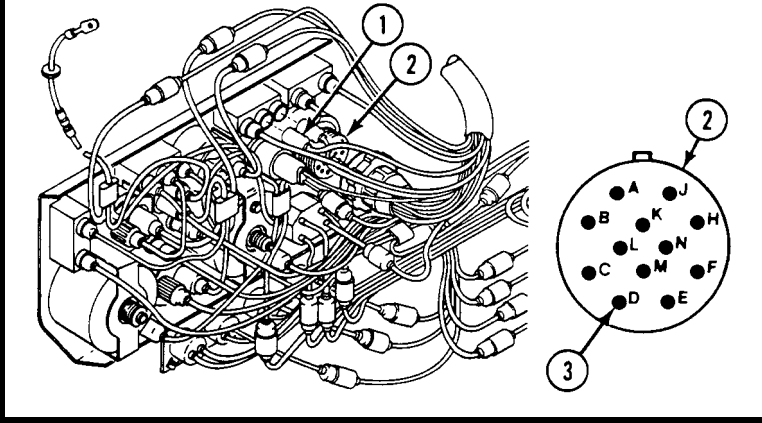
4YN

1. Install harness 12349881 plugs on IR/BO selector switch jacks.
2. Replace lighting control switch (WP 0282 00).
3. Verify no faults found.

YES

5Y

1. Measure resistance between harness 12349881 circuit 520 plug (1) and lighting control switch plug (2) pin D (3).
2. Does multimeter read 0 ohms?



NO

5YN

1. Install harness 12349881 circuit 19 plug on IR/BO selector switch jack.
2. Install harness 12349881 plug on light control switch jack.
3. Repair circuit 520 (WP 0382 00).
4. Verify no faults found.

YES

6Y

1. Install harness 12349881 circuit 520 plug on IR/BO selector switch jack.
2. Install harness 12349881 plug on light control switch jack.
3. Repair circuit 19.
4. Verify no faults found.

YES

SERVICE HEADLIGHTS DON'T WORK

0031 00

INITIAL SETUP:

Maintenance Level
Unit

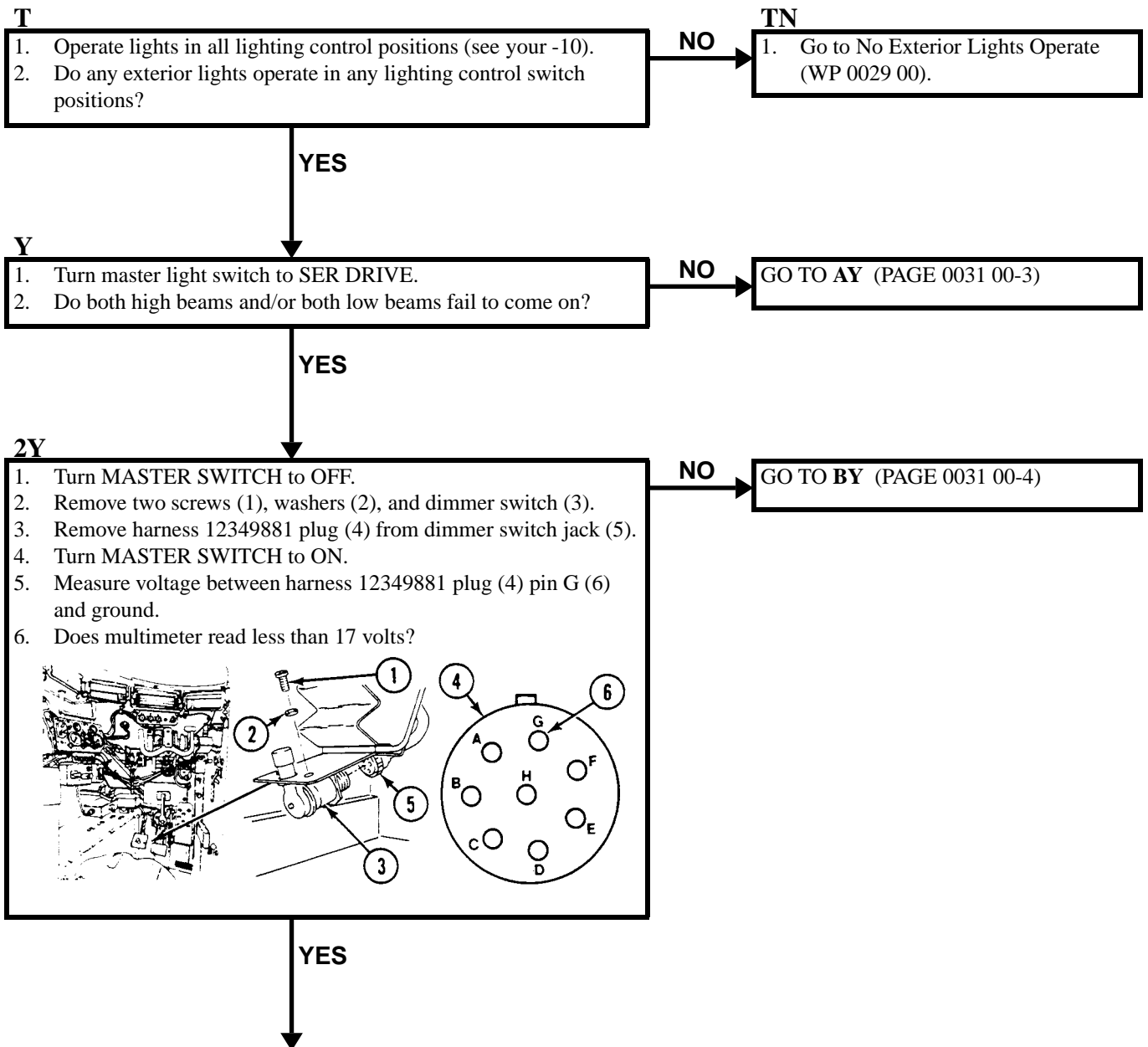
References
See your -10

Tools and Special Tools
General Mechanic's Tool Kit (WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

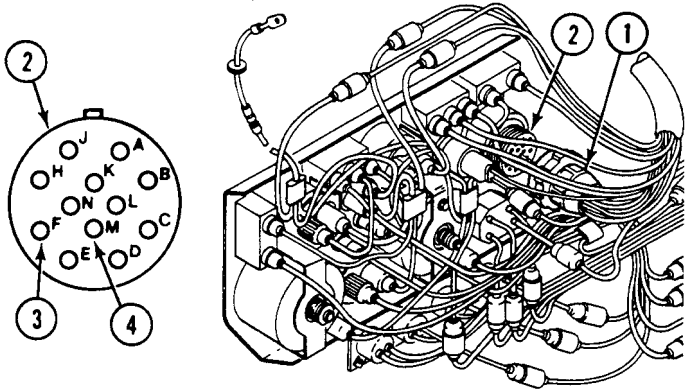
Personnel Required
Unit Mechanic 63T10

Engine stopped (see your -10)
Carrier blocked (see your -10)



3Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access. See task: remove instrument panel mounts and ground lead (WP 0295 00).
3. Remove harness 12349881 plug (1) from lighting control switch jack (2).
4. Measure resistance between lighting control switch jack (2) pins F (3) and M (4).
5. Does multimeter read 0 ohms?



NO →

3YN

1. Install dimmer switch and harness 12349881 plug on dimmer switch jack.
2. Replace lighting control switch (WP 0283 00).
3. Verify no faults found.

YES ↓

4Y

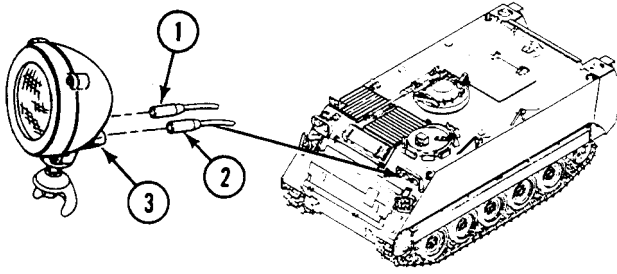
1. Faulty harness 12349881 circuit 16. Beyond unit maintenance repair.
2. Notify supervisor.

SERVICE HEADLIGHTS DON'T WORK—Continued

0031 00

AY

1. Remove circuit 17 (high beam) plug (1) or circuit 18 (low beam) plug (2) from failing service headlight jack (3).
2. Measure voltage between harness 12349881 circuit 17 plug (1) or circuit 18 plug (2) and ground.
3. Does multimeter read less than 17 volts?



NO

AYN

1. Replace service headlight bulb (WP 0303 00).
2. Verify no faults found.

YES

A2Y

1. Is failing headlight located on right side of carrier?

NO

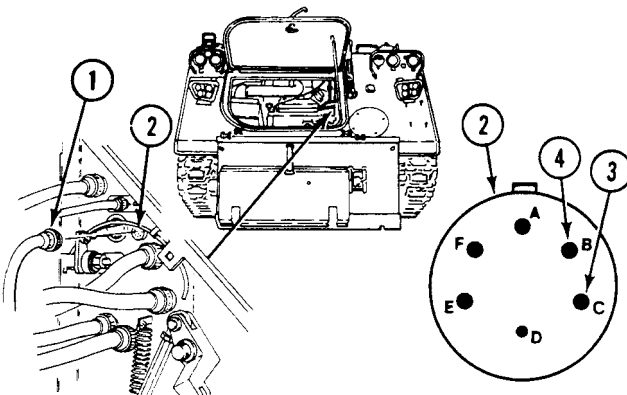
A2YN

1. Repair circuit 514 or 515 between left IR headlight and dimmer switch (WP 0382 00).
2. Verify no faults found.

YES

A3Y

1. Remove harness 8763491 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Measure voltage between harness 12349881 jack (2) pin C (low beam) (3) or pin B (high beam) (4) and ground.
3. Does multimeter read less than 17 volts?



NO

A3YN

1. Replace faulty harness 8763491 (WP 0373 00).
2. Verify no faults found.

YES

SERVICE HEADLIGHTS DON'T WORK—Continued

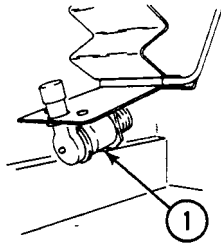
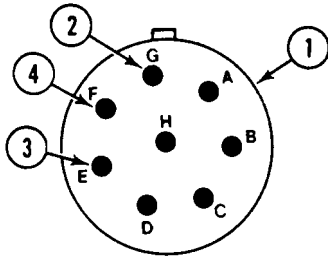
0031 00

A4Y

1. Turn MASTER SWITCH to OFF.
2. Install harness 8763491 circuit 17 (high beam) or 18 (low beam) on service headlight.
3. Faulty harness 12349881 circuit 17 or 18 between bulkhead and dimmer switch. Beyond unit maintenance repair.
4. Notify supervisor.

BY

1. Measure resistance between dimmer switch jack (1) pins G (2) and E (3) and between pins G (2) and F (4). Use multimeter. Multimeter should read 0 ohms once and infinity once.
2. Click dimmer switch and check continuity between dimmer switch jack (1) pins G (2) and E (3) and between pins G (2) and F (4). Multimeter should read infinity once and 0 ohms once.
3. Is dimmer switch working properly?



NO

BYN

1. Replace headlight high beam selector switch (WP 0333 00).
2. Verify no faults found.

YES

B2Y

1. Faulty harness 12349881 circuit 18 (low beam) or circuit 17 (high beam). Beyond unit maintenance repair.
2. Notify supervisor.

SERVICE AND/OR BLACKOUT STOP LIGHTS MALFUNCTION

0033 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

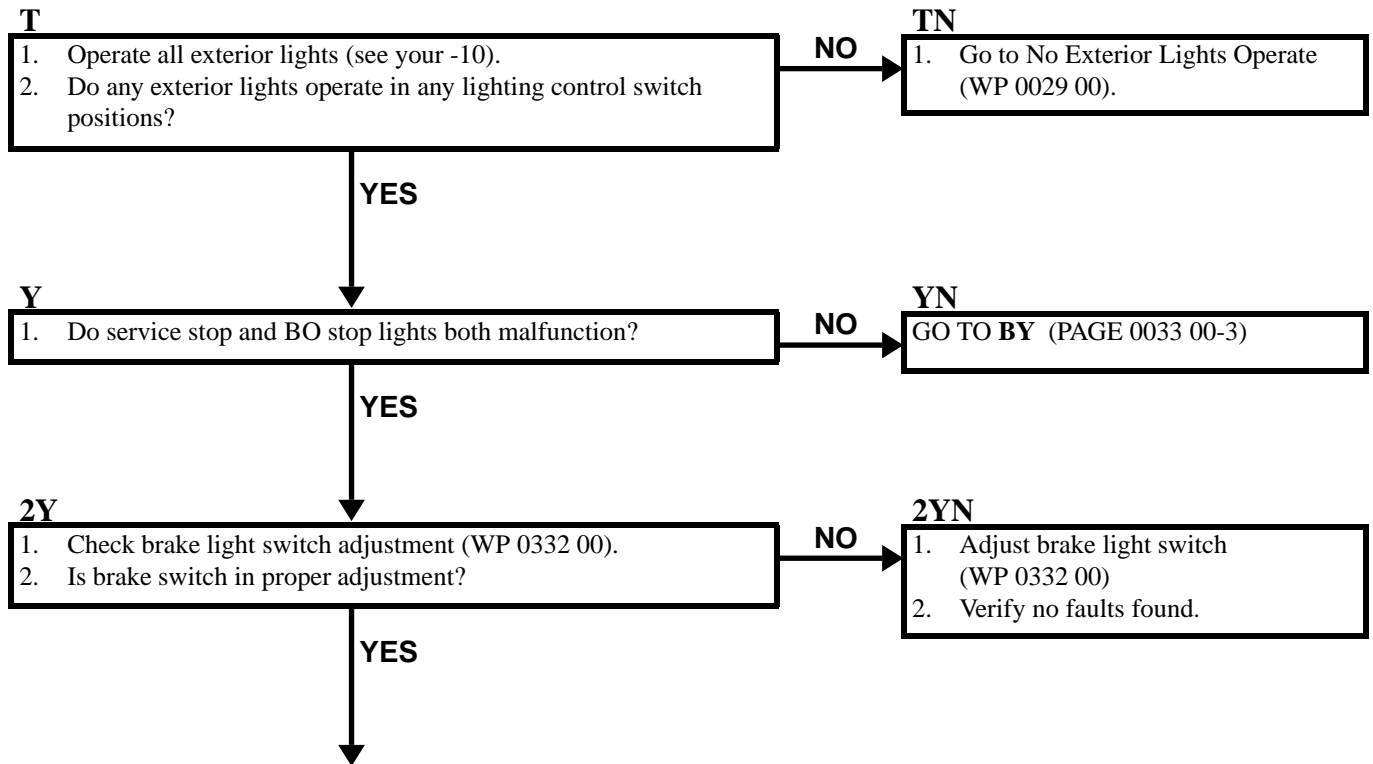
General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)
Ramp lowered (see your -10)

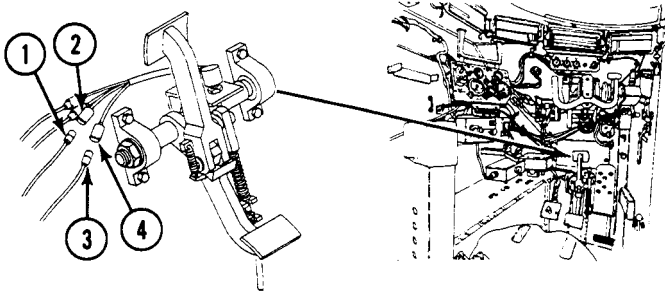
Personnel Required

Unit Mech 63T10
Helper (H)



3Y

1. Turn MASTER SWITCH to OFF.
2. Remove harness 12349881 circuit 75A plug (1) from switch jack (2).
3. Remove harness 12349881 circuit 75B plug (3) from switch jack (4).
4. Measure resistance between switch jacks (2) and (4) with switch depressed and with switch released.
5. Does multimeter read infinity with switch depressed and 0 ohm with switch released?



NO

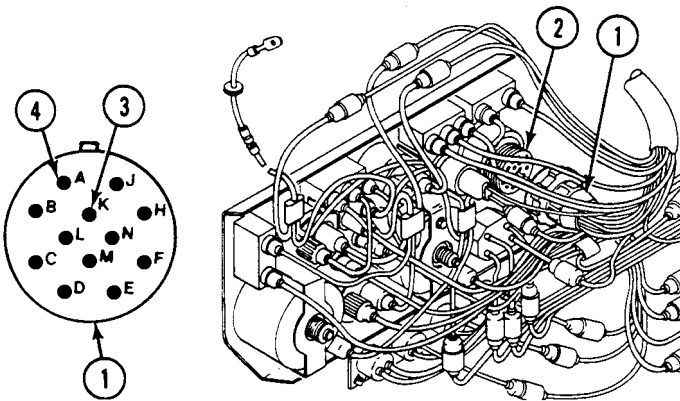
3YN

1. Replace brake light switch (WP 0332 00).
2. Verify no faults found.

YES

4Y

1. Install harness 12349881 circuit leads 75A and 75B on stop sensitive switch.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 plug (1) from lighting control switch jack (2).
4. Measure resistance between harness 12349881 plug (1) pins K (3) and A (4) with brake pedal depressed.
5. Does multimeter read less than 0 ohm?



NO

4YN

1. Faulty harness 12349881 circuit 75A and/or 75B. Beyond unit maintenance repair.
2. Notify supervisor.

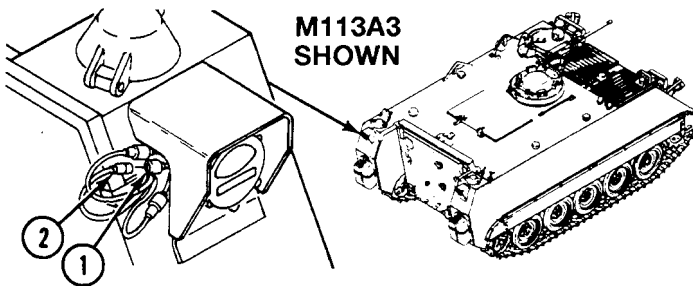
YES

5Y

1. Replace main light switch (WP 0283 00).
2. Verify no faults found.

BY

1. Remove harness 12268797 circuit 22 plug (1) from jack (2) on malfunctioning left tail light, or circuit 23 plug from jack on malfunctioning right tail light.
2. Turn main switch on lighting control to STOP or to BO.
3. Measure voltage between circuit 22 (left) plug (1) or circuit 23 (right) plug and ground with brake pedal depressed.
4. Does multimeter read less than 17 volts?



NO

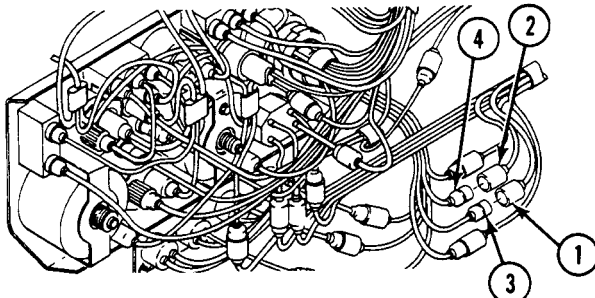
BYN

1. Install harness 12268797 jack on tail light.
2. Replace service stop or BO stop light bulb (WP 0301 00) or (WP 0302 00).
3. Verify no faults found.

YES

B2Y

1. Remove harness 12268797 circuit 22 plug (left) (1) or circuit 23 plug (right) (2) from harness 12349881 circuit 22 jack (3) or circuit 23 jack (4).
2. Measure voltage between harness 12349881 circuit 22 jack (2) or circuit 23 jack (3) and ground.
3. Does multimeter read less than 17 volts?



NO

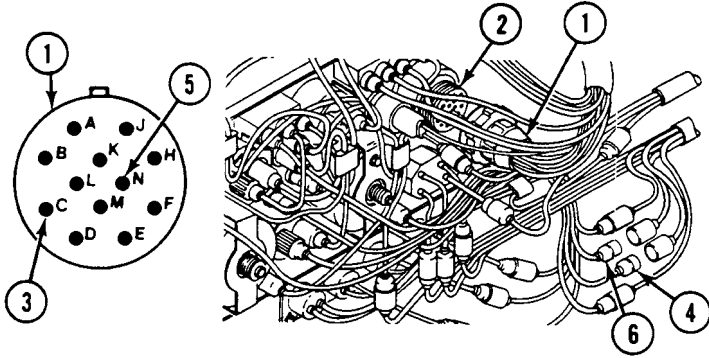
B2YN

1. Repair circuit 22 or 23 (WP 0382 00).
2. Verify no faults found.

YES

B3Y

1. Remove instrument panel for access (WP 0295 00).
2. Remove harness 12349881 plug (1) from lighting control switch (2).
3. Measure resistance between lighting control switch plug (1) pin C (3) to circuit 22 (service stop) jack (4) or pin N (5) to circuit 23 (BO stop) jack (6).
4. Does multimeter read 0 ohm?



NO

B3YN

1. Install harness 12268797 on tail light.
2. Faulty harness 12349881 circuit 22 or 23. Beyond unit maintenance repair.
3. Notify supervisor.

YES

B4Y

1. Install harness 12268797 plugs on harness 12349881 jack and tail light.
2. Replace main light switch (WP 0283 00).
3. Verify no faults found.

BLACKOUT MARKER LIGHT(S) DON'T WORK

0034 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

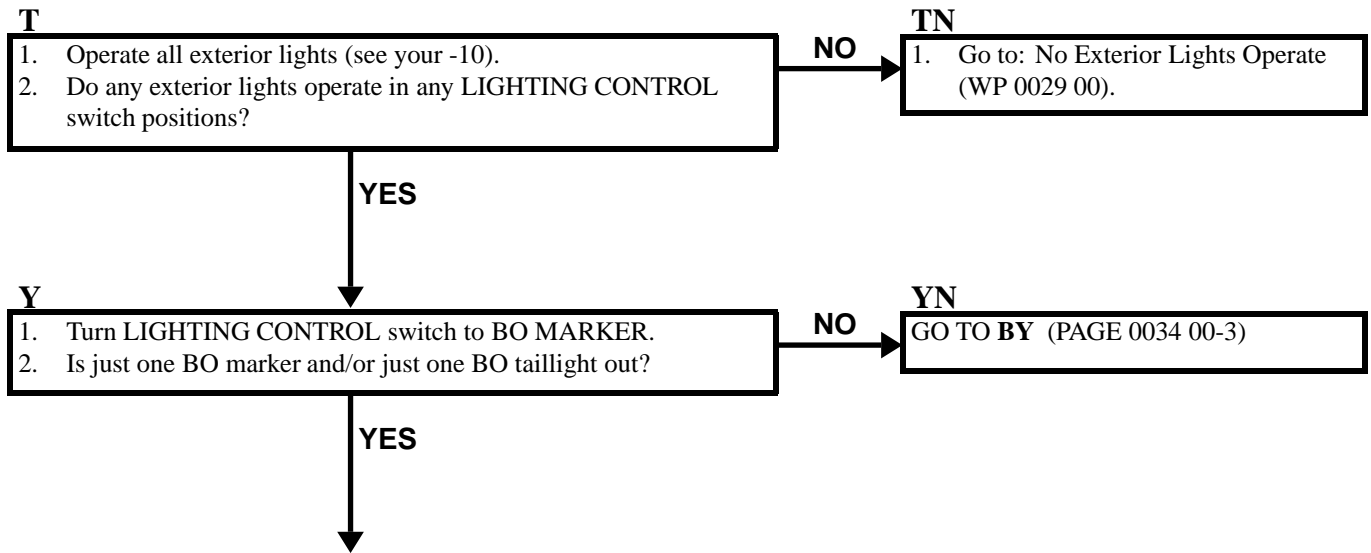
General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

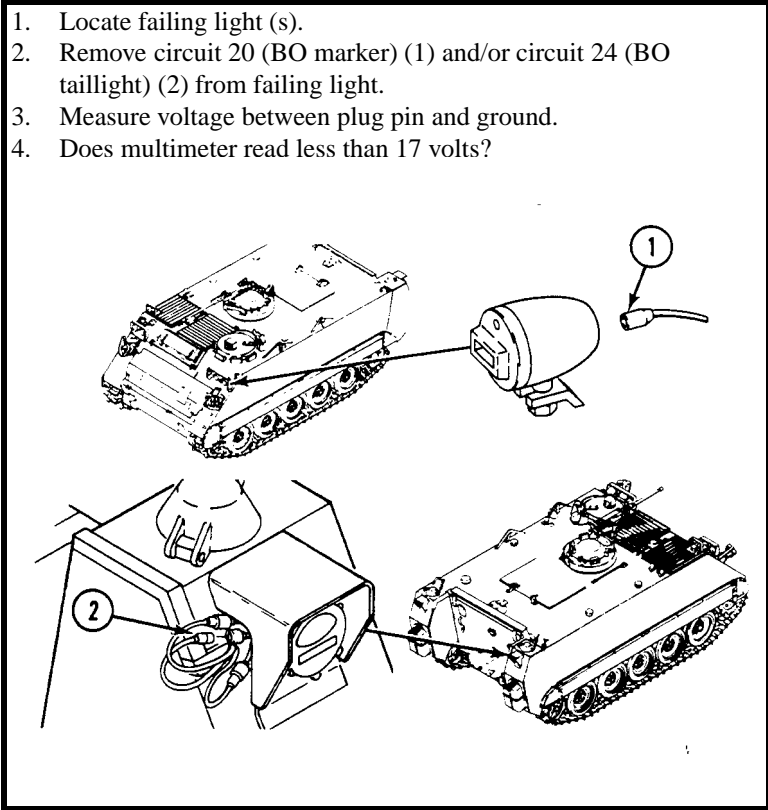
Engine stopped (see your -10)
Vehicle blocked (see your -10)

Personnel Required

Unit Mech 63T10
Helper (H)



- 2Y**
1. Locate failing light (s).
 2. Remove circuit 20 (BO marker) (1) and/or circuit 24 (BO taillight) (2) from failing light.
 3. Measure voltage between plug pin and ground.
 4. Does multimeter read less than 17 volts?
- 2YN**
1. Replace faulty light bulb: BO marker (WP 0308 00), left BO taillight (WP 0300 00), and right BO taillight (WP 0302 00).
 2. Verify no faults found.

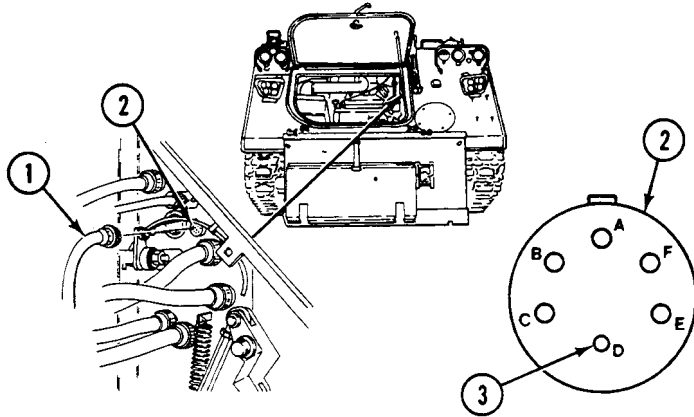


- 3Y**
1. Is one front BO marker light not working?
- 3YN**
1. Repair harness 12268797 circuit 24 (WP 0382 00).
 2. Verify no faults found.

- 4Y**
1. Is right BO marker light out?
- 4YN**
1. Repair harness 12349881 circuit 20 (WP 0382 00).
 2. Verify no faults found.

5Y

1. Remove harness 8763491 plug (1) from harness 12349881 jack (2) at vehicle bulkhead.
2. Measure voltage between harness 12349881 jack (2), pin D (3), and ground.
3. Does multimeter read less than 17 volts?



NO

5YN

1. Replace harness 8763491 (WP 0373 00).
2. Verify no faults found.

YES

6Y

1. Install harness 8763491 circuit 20 jack on right BO marker light.
2. Faulty harness 12349881 circuit 20. Beyond unit maintenance repair.
3. Notify supervisor.

BY

1. Are only both BO taillights out or only both BO markers out?

NO

BYN

GO TO CY (PAGE 0034 00-5)

YES

B2Y

1. Are both BO taillights out?

NO

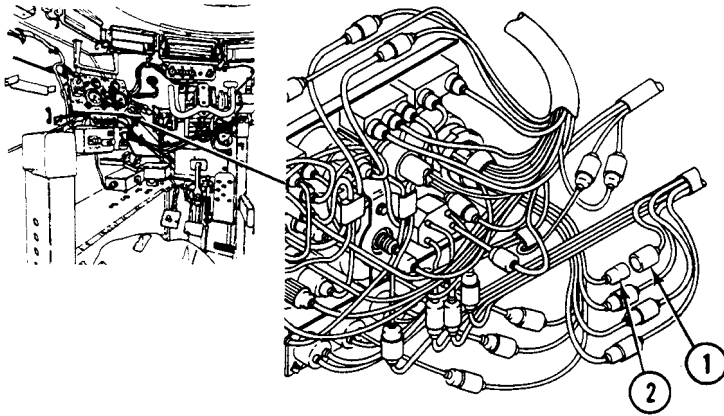
B2YN

1. Faulty harness 12349881 circuit 20. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B3Y

1. Remove harness 12268797 circuit 24 plug (1) from harness 12349881 circuit 24 jack (2).
2. Measure voltage between harness 12349881 jack pin (2) and ground.
3. Does multimeter read less than 17 volts?



NO

B3YN

1. Repair harness 12268797 circuit 24 (WP 0382 00).
2. Verify no faults found.

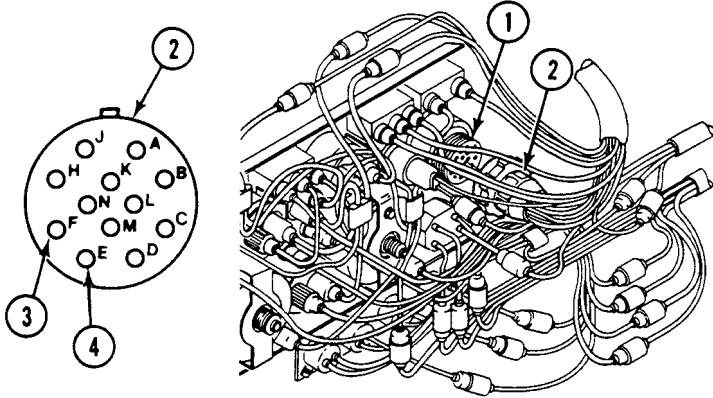
YES

B4Y

1. Faulty harness 12349881 circuit 24. Beyond unit maintenance repair.
2. Notify supervisor.

CY

1. Turn MASTER SWITCH OFF.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 plug (2) from LIGHTING CONTROL switch jack (1).
4. Measure resistance between LIGHTING CONTROL switch jack (2), pins F (3) and E (4).
5. Does multimeter read 0 ohms?



NO

CYN

1. Replace LIGHTING CONTROL switch (WP 0283 00).
2. Verify no faults found.

YES

C2Y

1. Faulty harness 12340991 circuit 20/24. Beyond unit maintenance repair.
2. Notify supervisor.

SERVICE TAILLIGHT DOESN'T WORK

0035 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

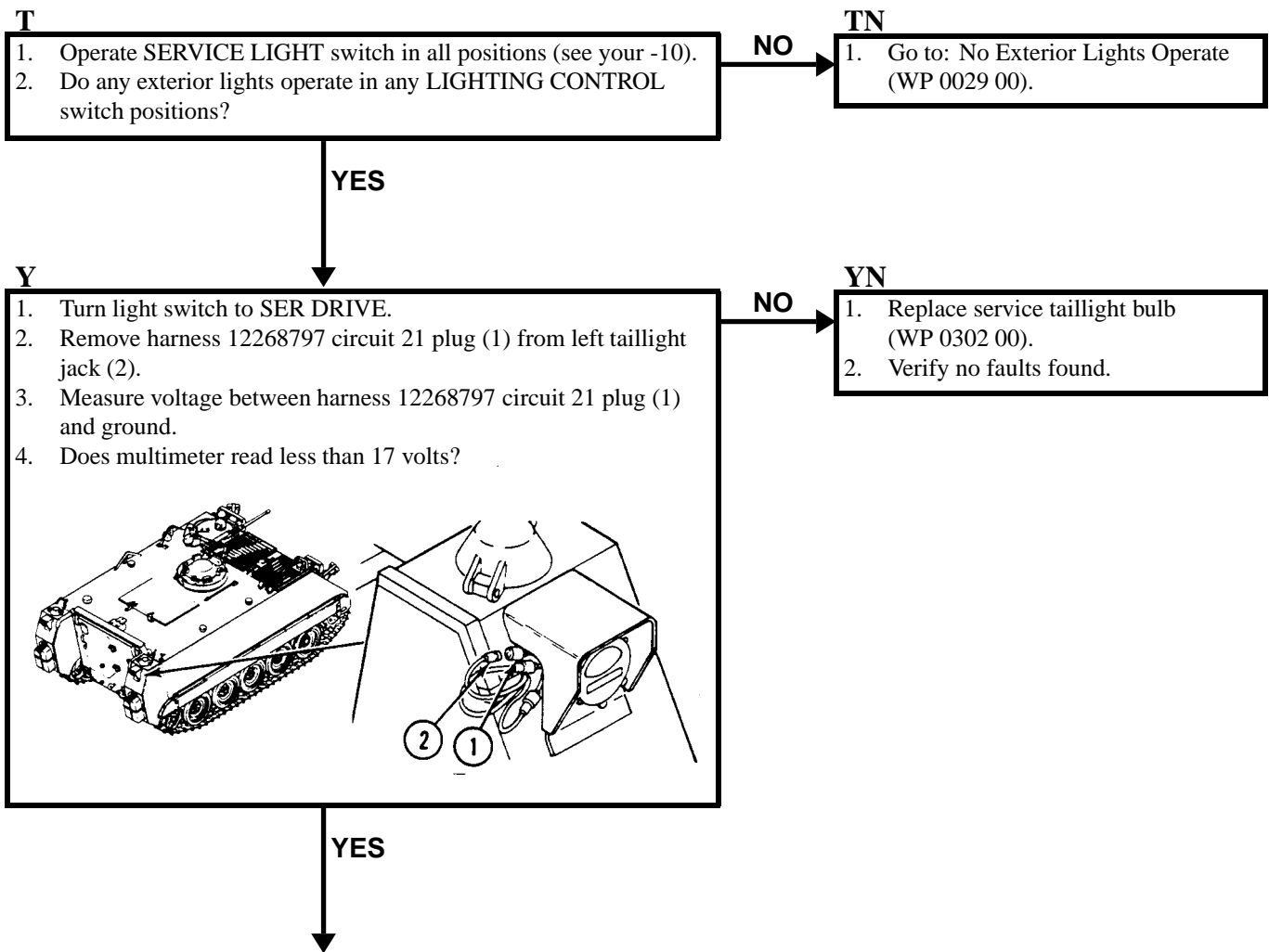
Engine stopped (see your -10)

Vehicle blocked (see your -10)

Personnel Required

Unit Mech 63T10

Helper (H)

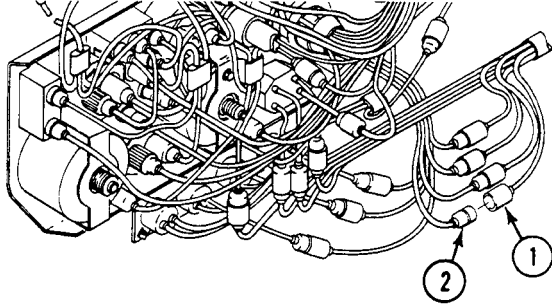


SERVICE TAILLIGHT DOESN'T WORK—Continued

0035 00

2Y

1. Remove harness 12268797 circuit 21 plug (1) from harness 12349881 circuit 21 jack (2) on panel.
2. Measure voltage between harness 12349881 jack (2) and ground.
3. Does multimeter read less than 17 volts?



NO

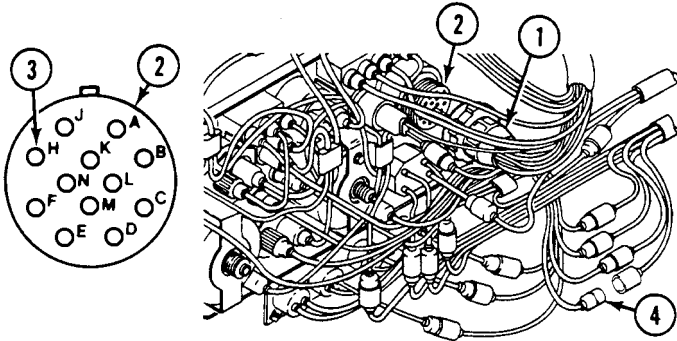
2YN

1. Repair harness 12268797 circuit 21 (WP 0382 00).
2. Verify no faults found.

YES

3Y

1. Turn MASTER SWITCH OFF.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 plug (1) from LIGHTING CONTROL switch jack (2)
4. Measure resistance between LIGHTING CONTROL switch jack (1), pin H (2), and circuit 21 jack (4).
5. Does multimeter read 0 ohms?



NO

3YN

1. Install harness 1268797 circuit 21 plug on left taillight jack.
2. Faulty harness 12349881 circuit 21. Beyond unit maintenance repair.
3. Notify supervisor.

YES

4Y

1. Install harness 1268797 circuit 21 plug on left taillight jack.
2. Replace main light switch (WP 0283 00).
3. Verify no faults found.

TRAILER LIGHTS DON'T WORK

0036 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
Trailer TM

Tools and Special Tools

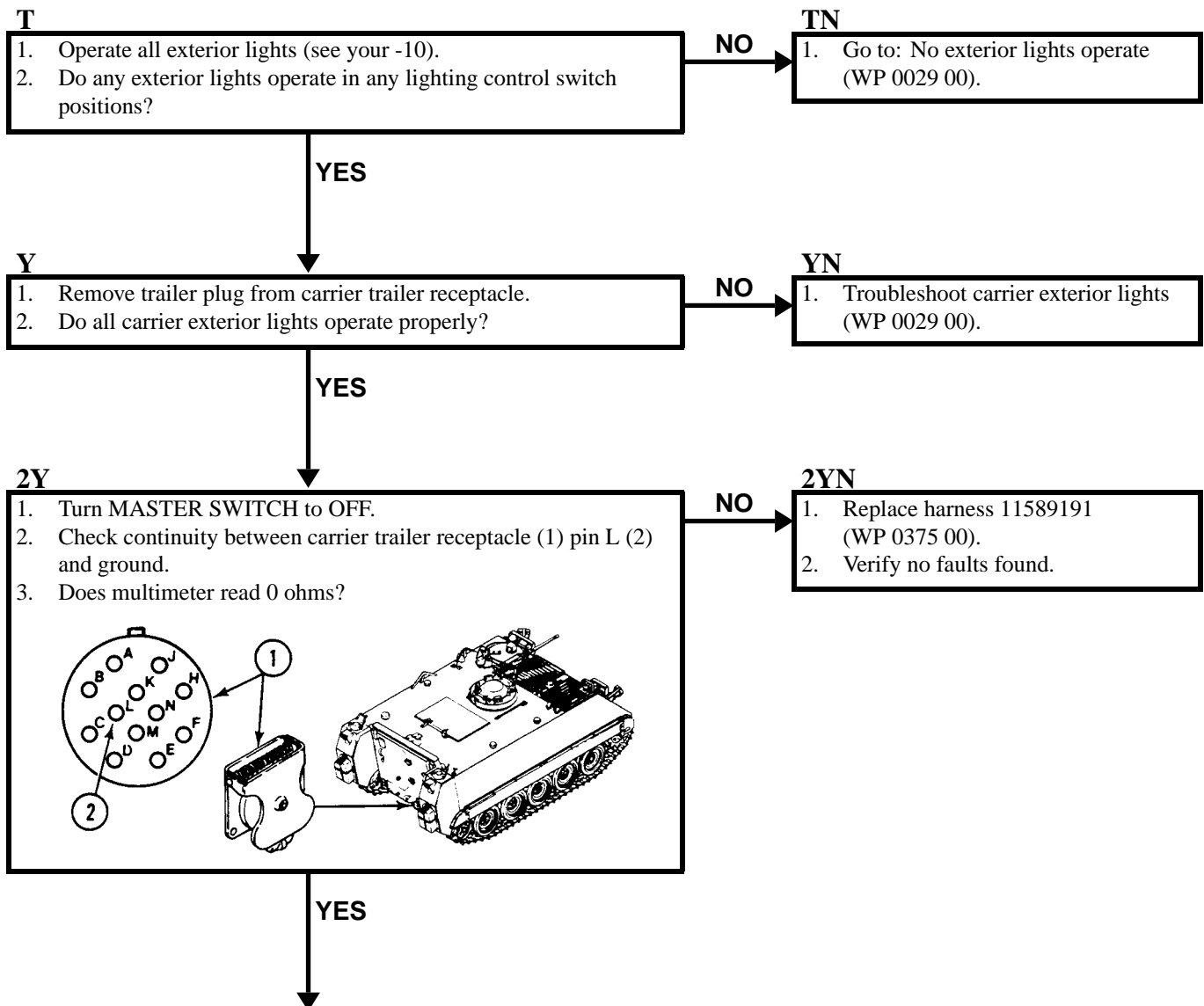
General Mechanic's Tool Kit (WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

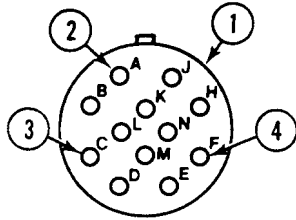
Personnel Required

Unit Mechanic 63T10
Helper (H)



3Y

1. Turn MASTER SWITCH to ON.
2. Turn lighting control switch to BO marker.
3. Measure voltage between trailer receptacle (1) pins A (2), C (3), and F (4) to ground while depressing brake pedal.
4. Does multimeter read 17 volts or more for all readings?



NO

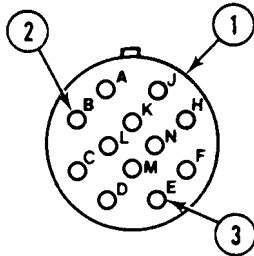
3YN

1. Replace harness 11589191 (WP 0375 00).
2. Verify no faults found.

YES

4Y

1. Turn lighting control switch to SER DRIVE.
2. Measure voltage between trailer receptacle (1) pins B (2) and E (3) to ground while depressing brake pedal.
3. Does multimeter read 17 volts or more?



NO

4YN

1. Replace harness 11589191 (WP 0375 00).
2. Verify no faults found.

YES

5Y

1. Faulty trailer harness(es) and/or lights. Beyond unit maintenance repair.
2. Troubleshoot trailer lights. See Trailer TM.

HORN DOES NOT WORK

0037 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Jumper wire

Equipment Condition

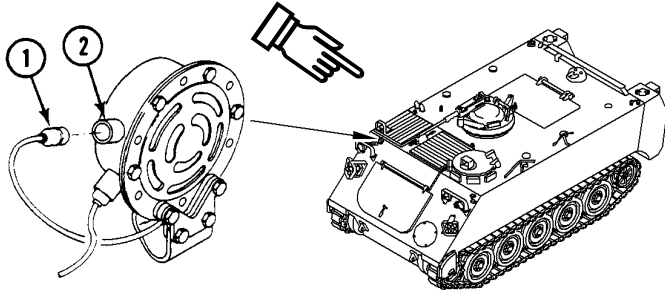
Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant rear access panels removed (WP 0439 00)

T

1. Remove lead 10863474 plug (1) from horn jack (2).
2. Measure resistance between lead 10863474 plug (1) and ground.
3. Does multimeter read 0 ohms?



NO

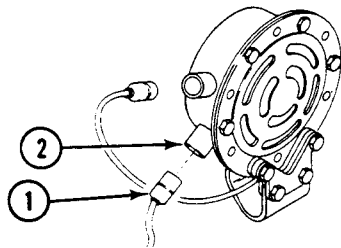
TN

1. Replace lead 10863474 and/or connector (WP 0382 00).
2. Verify no faults found.

YES

Y

1. Remove harness 8763491 circuit 25 plug (1) from horn jack (2).
2. Move MASTER POWER switch to ON.
3. Measure voltage between harness 8763491 circuit 25 plug (1) and ground with horn button depressed.
4. Does multimeter read less than 17 volts?



NO

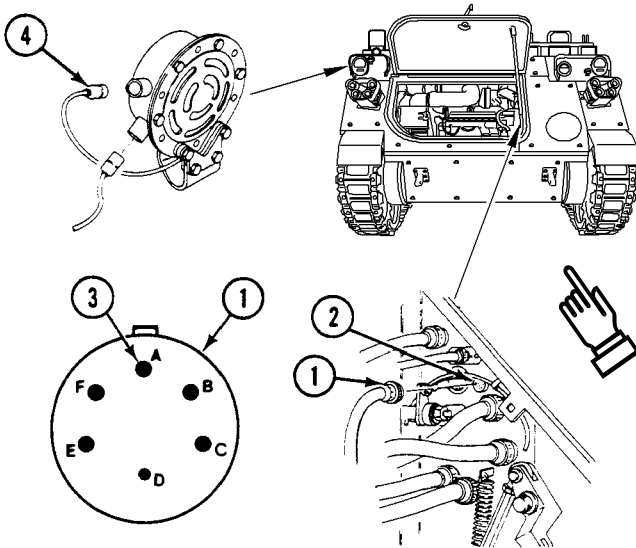
YN

1. Replace horn (WP 0336 00).
2. Verify no faults found.

YES

2Y

1. Release horn button.
2. (H) Move MASTER POWER switch to OFF.
3. Remove harness 8763491 plug (1) from harness 12349881 jack (2) at fire wall.
4. Measure resistance between harness 8763491 plug (1), pin A (3) to lead 25 (4).
5. Does multimeter read 0 ohms?



NO

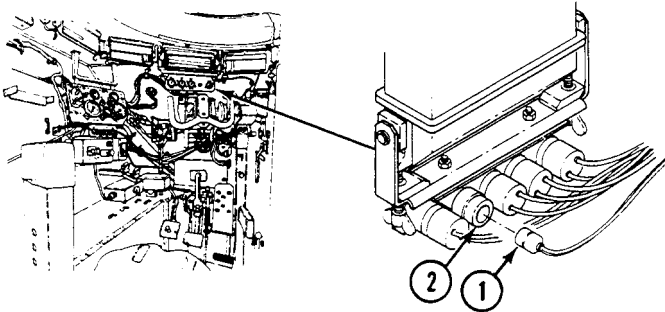
2YN

1. Replace wiring harness 8763491 circuit 25 (WP 0373 00).
2. Verify no faults found.

YES

3Y

1. Remove circuit 25/25A plug (1) from horn switch jack (2).
2. Measure resistance between horn switch jack pins (2) with horn switch depressed.
3. Does multimeter read 0 ohms?



NO

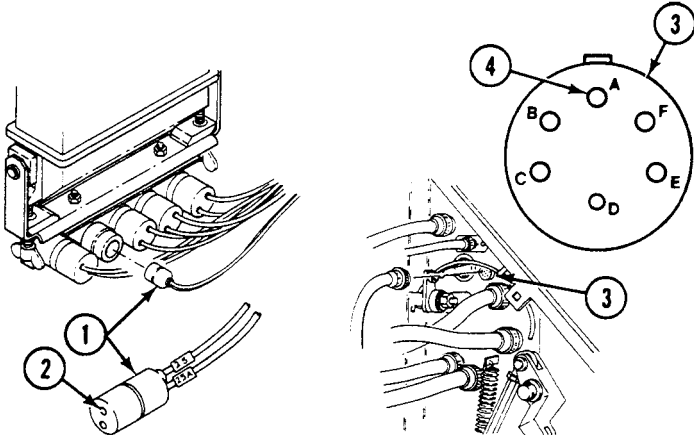
3YN

1. Install harness 8763491 plug to harness 12349881 jack at fire wall.
2. Install lead 10863474 plug to horn jack.
3. Install harness 8763491 circuit 25 plug onto horn jack.
4. Replace horn switch (WP 0293 00).
5. Verify no faults found.

YES

4Y

1. Install jumper wire between horn switch plug (1), circuit 25 pin (2) and ground.
2. Measure resistance between harness 12349881 jack (3), pin A (4) and ground.
3. Does multimeter read 0 ohms?



NO

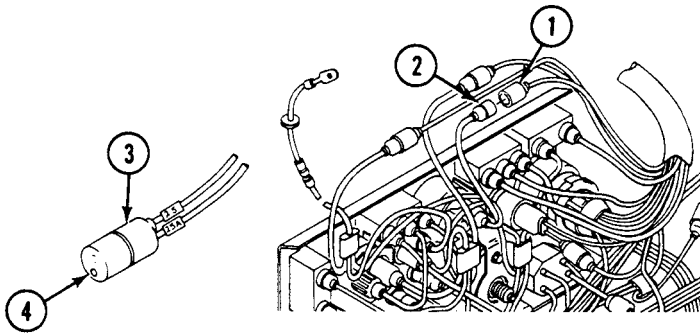
4YN

1. Remove jumper wire from horn switch plug.
2. Faulty harness 12349881 circuit 25A. Beyond unit maintenance repair.
3. Notify supervisor.

YES

5Y

1. Remove jumper wire from horn switch plug.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 circuit 25A plug (1) from cable assembly 12349858 circuit 25A jack (2).
4. Install jumper wire between 12349858 jack, circuit 25A pin (2) and ground.
5. Measure resistance between horn switch plug (3), circuit 25A pin (4) and ground.
6. Does multimeter read 0 ohms?



NO

5YN

1. Remove jumper wire from harness 12349858 circuit 25A.
2. Faulty harness 12349881 circuit 25A. Beyond unit maintenance repair.
3. Notify supervisor.

YES

6Y

1. Remove jumper wire from harness 123498558 circuit 25A plug.
2. Install circuits 25 and 25A on horn switch.
3. Install harness 8761491 plug on harness 12349881 jack on fire wall.
4. Repair harness 12349858 circuit 25A (WP 0382 00).
5. Verify no faults found.

INSTRUMENT PANEL AND/OR TRANS CONTROLLER ILLUMINATION LIGHTS MALFUNCTION

0038 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

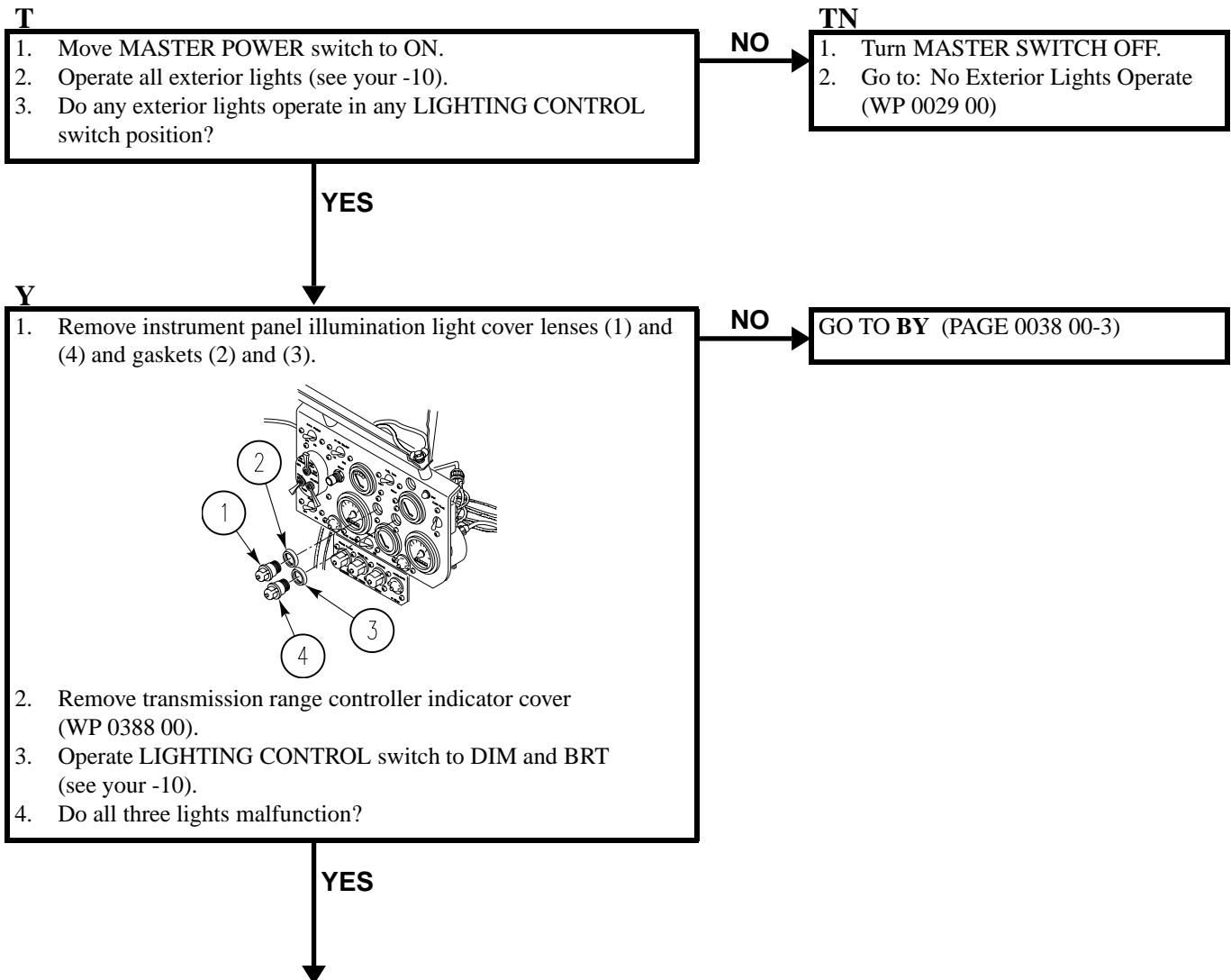
Equipment Condition

Engine stopped (see your -10)

Vehicle blocked (see your -10)

Personnel Required

Unit Mech 63T10

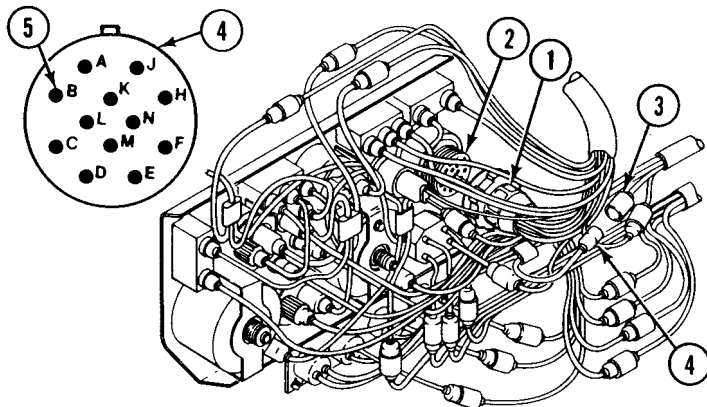
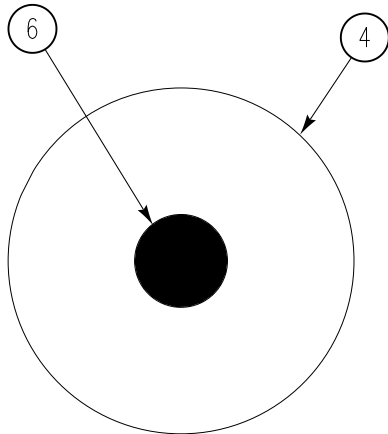


**INSTRUMENT PANEL AND/OR TRANS CONTROLLER ILLUMINATION LIGHTS
MALFUNCTION—Continued**

0038 00

2Y

1. Move MASTER POWER switch to OFF.
2. Install instrument panel illumination light and controller indicator cover lenses and gaskets.
3. Remove instrument panel for access (WP 0295 00).
4. Remove harness 12349881 plug (1) from LIGHTING CONTROL switch jack (2).
5. Remove harness 12349813 circuit 40 plug (3) from harness 12349881 circuit 40 jack (4).
6. Measure resistance between harness 12349881 LIGHTING CONTROL switch plug (1), pin B (5), and circuit 40 jack (4) pin (6).
7. Does multimeter read 0 ohms?



NO

2YN

1. Faulty harness 12349881, circuit 40. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Replace main light switch (WP 0283 00).
2. Verify no faults found.

**INSTRUMENT PANEL AND/OR TRANS CONTROLLER ILLUMINATION LIGHTS
MALFUNCTION—Continued**

0038 00

BY

1. Remove malfunctioning bulb(s) from instrument panel illumination light(s) and/or TRANS CONTROLLER indicator.
2. Check continuity between bulb center contact and bulb base.
3. Does multimeter read less than infinity?

NO

BYN

1. Replace light bulb(s), as required (WP 0388 00).
2. Verify no faults found.

YES

B2Y

1. Does either instrument panel illumination light malfunction?

NO

B2YN

1. Replace harness 12349813 (WP 0374 00).
2. Verify no faults found.

YES

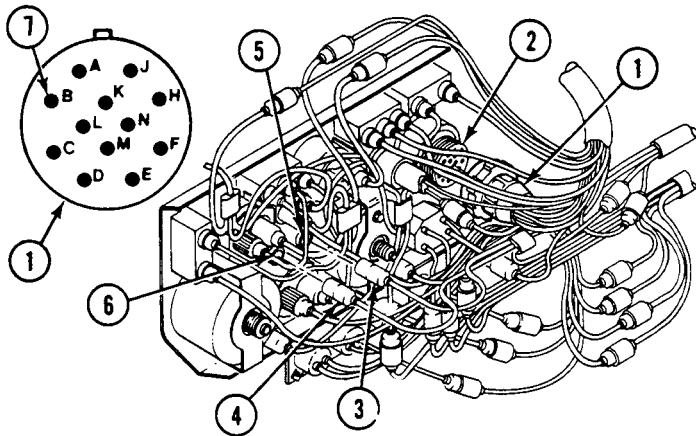
B3Y

1. Remove instrument panel for access (WP 0295 00).
2. Remove harness 12349881 plug (1) from LIGHTING CONTROL switch jack (2).
3. Remove harness 12349881 circuit 40 plug (3) or (4) from failing instrument panel light (5) or (6).
4. Measure resistance between harness 12349881 LIGHTING CONTROL switch plug (1), pin B (7), and failing circuit 40 light plug (3) or (4).
5. Does multimeter read 0 ohms?

NO

B3YN

1. Install bulbs.
2. Faulty harness 12349881, circuit 40. Beyond unit maintenance repair.
3. Notify supervisor.



YES

**INSTRUMENT PANEL AND/OR TRANS CONTROLLER ILLUMINATION LIGHTS
MALFUNCTION—Continued**

0038 00

B4Y

1. Install harness 12349881 plug on LIGHTING CONTROL switch jack.
2. Replace instrument panel light assembly (WP 0287 00).
3. Verify no faults found.

DOME LIGHT(S) DO NOT WORK

0039 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your-10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)

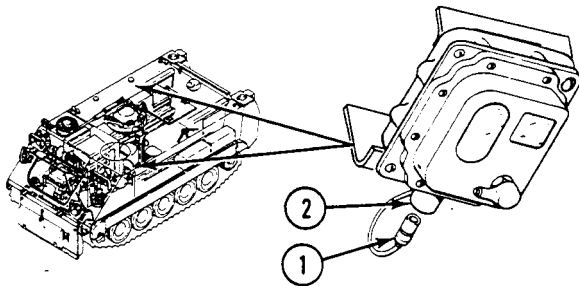
Personnel Required

Unit Mech 63T10
Helper (H)

Vehicle blocked (see your -10)

T

1. Remove harness 12268797 plug (1) from jack (2) on faulty dome light.
2. Turn MASTER SWITCH ON.
3. Measure voltage between harness 12268797 plug (1) and ground.
4. Does multimeter read 17 volts or more?



NO

GO TO BY (PAGE 0039 00-3)

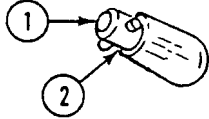
YES

DOME LIGHT(S) DO NOT WORK—Continued

0039 00

Y

1. Turn MASTER SWITCH OFF.
2. Install harness 12268797 plug on dome light.
3. Remove dome light bulbs from dome light assembly (WP 0309 00) or (WP 0311 00).
4. Check continuity between light bulb center contact (1) and bulb base (1).
5. Is there continuity?



NO

YN

1. Repair dome light assembly (WP 0310 00) or (WP 0312 00).
2. Verify no faults found.

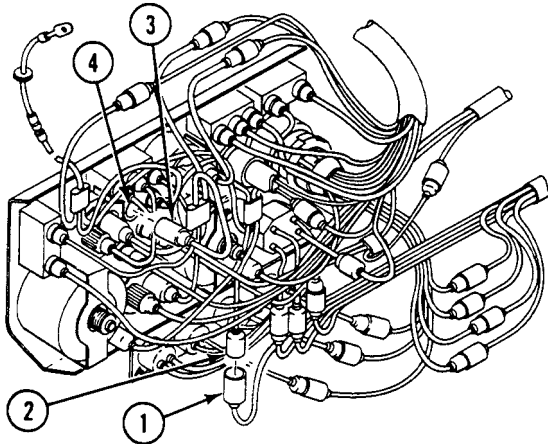
YES

2Y

1. Replace dome light bulbs (WP 0310 00) or (WP 0312 00).
2. Verify no faults found.

BY

1. Turn MASTER SWITCH OFF.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12268797 circuit 38 plug (1) from harness 12349858 circuit 38 jack (2).
4. Remove harness 12349858 circuit 27 plug (3) from instrument panel circuit breaker jack (4).
5. Measure resistance between harness 12349858 circuit 38 jack (2) and circuit 27 plug (3).



6. Does multimeter read 0 ohms?

NO

BYN

1. Install harness 2268797 plug on dome light jack.
2. Repair harness 12349858 circuit 38 (WP 0382 00).
3. Verify no faults found.

YES

B2Y

1. Repair harness 12268797 circuit 38 (WP 0382 00).
2. Verify no faults found.

DOME LIGHT MALFUNCTION (M577A3 ONLY)

0040 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your-10

Tools and Special Tools

General mechanic's tool kit: automotive
(WP 0926 00, Item 65)
Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Vehicle blocked (see your -10)

Personnel Required

Unit Mech 63T10
Helper (H)

T

1. Turn MASTER SWITCH to ON (see your -10).
2. Turn BLACKOUT BYPASS switch to ON.
3. Do white dome lights come on?

NO

GO TO BY (PAGE 0040 00-4)

YES

Y

1. Turn BLACKOUT BYPASS switch to OFF.
2. Operate rear dome light switch.
3. Operate front dome light switch.
4. Do blackout lights malfunction?

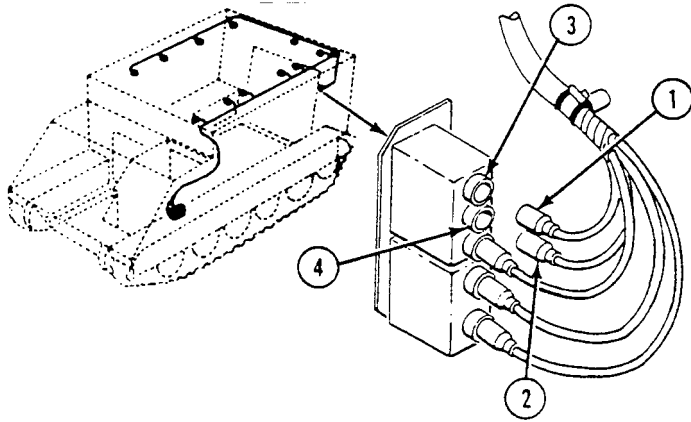
NO

GO TO CY (PAGE 0040 00-4)

YES

2Y

1. Remove circuit 38E (1) and 38A (2) plugs form rear dome light switch jacks (3)(4).
2. Install a jumper wire between circuit 38E (1) and 38A (2) plugs.
3. Operate front dome light switch.
4. Do blackout dome lights malfunction?



NO → GO TO **DY** (PAGE 0040 00-5)

YES

3Y

1. Remove jumper from circuit 38E and 38A plugs.
2. Measure voltage at circuit 38E plug.
3. Does multimeter read 17 volts or more?

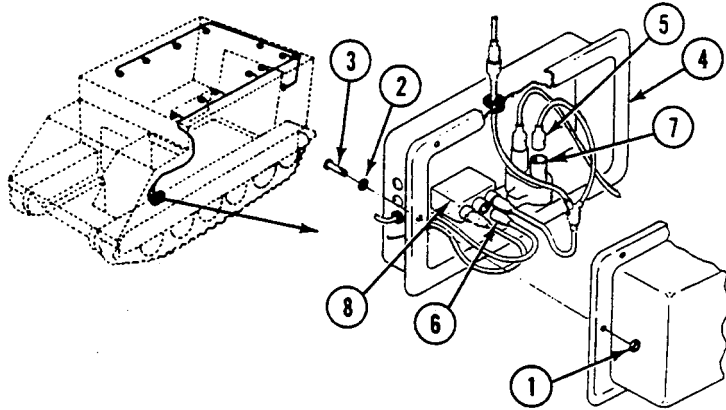
NO → **3YN**

1. Turn MASTER SWITCH to OFF.
2. Repair rear main harness circuit 38E (WP 0382 00).
3. Verify no faults found.

YES

4Y

1. Turn MASTER SWITCH to OFF.
2. Install circuit 38E and 38A plugs on rear dome light.
3. Remove eight nuts (1), washers (2), and screws (3) from master switch panel (4). Pull panel away from distribution box.
4. Remove circuits 10 (5) and 38A (6) plugs from circuit breaker (7) and front dome light switch (8).
5. Install a jumper wire between circuit 10 and 38A plugs.
6. Turn MASTER SWITCH to ON.
7. Operate rear dome light switch.
8. Do blackout dome lights still malfunction?



NO

GO TO EY (PAGE 0040 00-5)

YES

5Y

1. Remove jumper wire from circuits 10 and 38A plugs.
2. Measure voltage at circuit 10 plug.
3. Does multimeter read 17 volts or more?

NO

5YN

1. Turn MASTER SWITCH to OFF.
2. Repair/replace wiring harness 10917788 (WP 0382 00).
3. Verify no faults found.

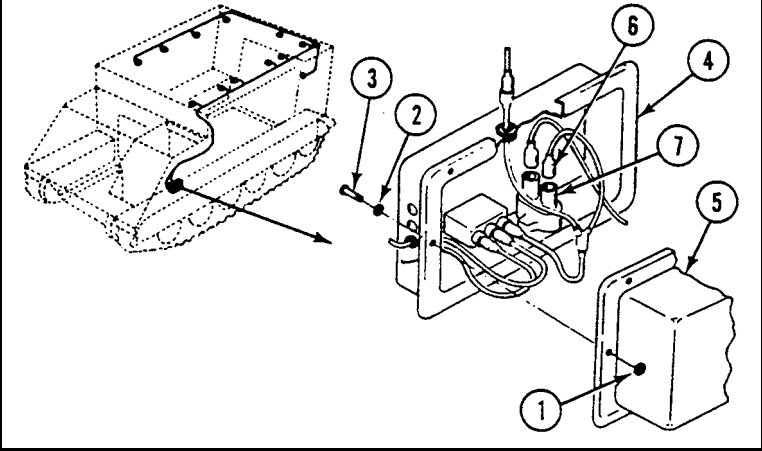
YES

6Y

1. Turn MASTER SWITCH to OFF.
2. Repair wiring harness circuit 38A (WP 0382 00).
3. Verify no faults found.

BY

1. Turn MASTER SWITCH to OFF.
2. Remove eight nuts (1), washers (2), and screws (3) from master switch panel (4). Pull panel away from distribution box (5).
3. Remove circuit 10 plugs from circuit breaker jacks (7).
4. Measure resistance between circuit breaker jacks (7).
5. Does multimeter read 0 ohm?



NO

BYN

1. Replace circuit breaker (WP 0316 00).
2. Verify no faults found.

YES

B2Y

1. Repair circuit 10 lead assembly from the circuit breaker to the front dome light switch (WP 0382 00).
2. Verify no faults found.

CY

1. Has the ramp door switch been adjusted?

NO

CYN

1. Adjust ramp door switch (WP 0335 00).
2. Verify no faults found.

YES

C2Y

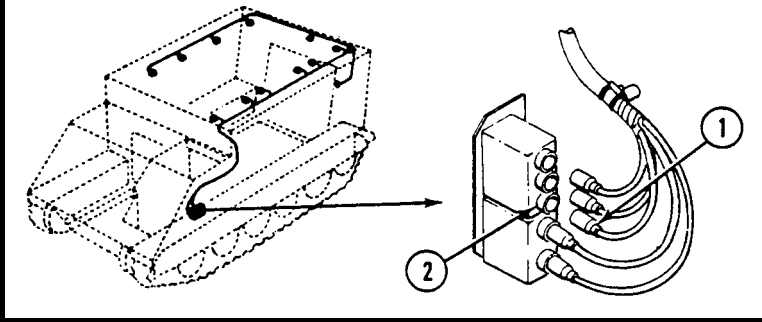
1. Replace ramp door switch (WP 0335 00).
2. Verify no faults found.

DOME LIGHT MALFUNCTION (M577A3 ONLY)—Continued

0040 00

DY

1. Turn blackout dome lights on using front dome light switch.
2. Remove circuit 38 plug (1) from rear dome light switch jack (2).
3. Measure voltage between circuit 38 plug (1) and ground.
4. Does multimeter read 17 volts or more?



NO

DYN

1. Turn MASTER SWITCH to OFF.
2. Repair rear main harness circuit 38 (WP 0382 00).
3. Verify no faults found.

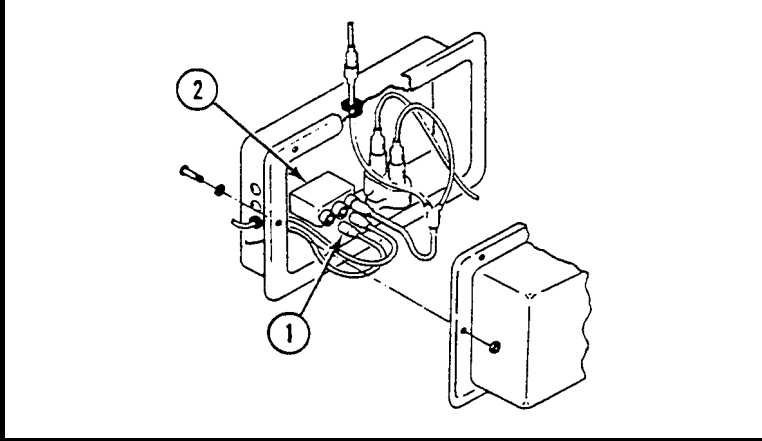
YES

D2Y

1. Turn MASTER SWITCH to OFF.
2. Replace rear dome light switch (WP 0315 00).
3. Verify no faults found.

EY

1. Turn dome lights on using rear dome light switch.
2. Remove circuit 38 plug (1) from front dome light switch jack.
3. Measure voltage between circuit 38 plug (1) and ground.
4. Does multimeter read 17 volts or more?



NO

EYN

1. Turn MASTER SWITCH to OFF.
2. Repair wiring harness circuit 38 (WP 0382 00).
3. Install master switch panel on distribution box (WP 0261 00).
4. Verify no faults found.

YES

DOMELIGHT MALFUNCTION (M577A3 ONLY)—Continued

0040 00**E2Y**

1. Turn MASTER SWITCH to OFF.
2. Remove jumper wire from circuit 10 and 38 plugs.
3. Replace front dome light switch (WP 0314 00).
4. Verify no faults found.

BLACKOUT DOME LIGHTS DO NOT WORK (M1068A3 ONLY)

0041 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

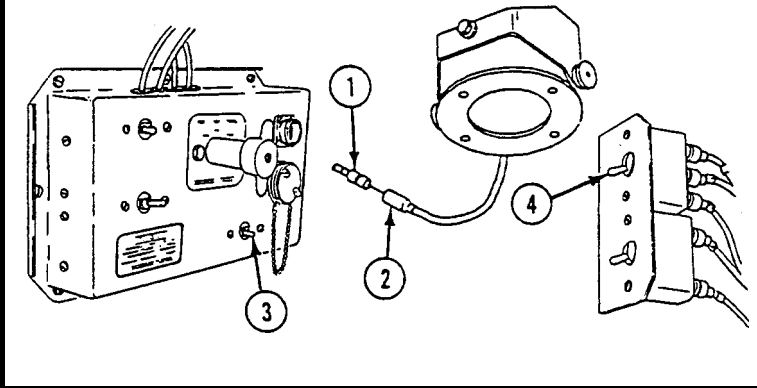
Engine stopped (see your -10)
 Carrier blocked (see your -10)
 Ramp lowered or ramp door open (see your -10)

Personnel Required

Unit Mechanic

T

1. Disconnect W28 plug P2 (1) from dome light lead (2).
2. Turn MASTER SWITCH to ON.
3. Turn on front dome light switch (3) (master switch panel in driver's compartment); or rear dome light switch (4) (switch panel next to ramp).
4. Measure voltage between plug P2 (1) and ground.
5. Does multimeter read 17 volts or more?



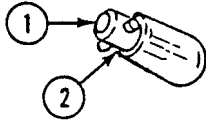
NO

GO TO AY (PAGE 0041 00-2)

YES

Y

1. Turn MASTER SWITCH to OFF.
2. Remove light bulbs from dome light (WP 0312 00).
3. Check continuity between light bulb center contact (1) and bulb base (2).
4. Is there continuity?



NO

YN

1. Replace dome light bulbs (WP 0312 00).
2. Verify no faults found.

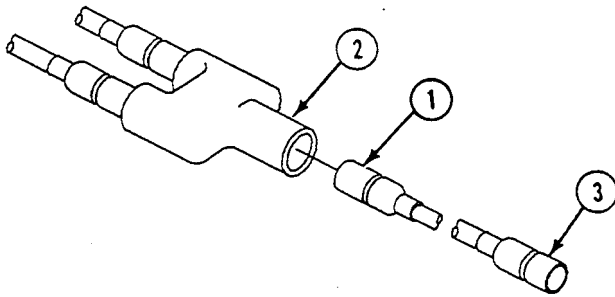
YES

2Y

1. Repair dome light assembly (WP 0312 00).
2. Verify no faults found.

AY

1. Turn MASTER SWITCH to OFF.
2. Remove cable W28 plug P1 (1) from adapter plug (2).
3. Measure resistance between cable W28 plugs P1 (1) and P2 (3).
4. Does multimeter read zero ohms?



NO

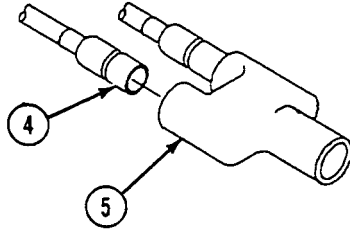
AYN

1. Replace cable W28 (WP 0849 00).
2. Verify no faults found.

YES

A2Y

1. Remove lead 38B (1) from adapter plug P3 (5).
2. Turn MASTER SWITCH to ON.
3. Measure voltage between lead 38B (4) and ground.
4. Does multimeter read 17 volts or more?



NO

A2YN

1. Go to Dome Lights Malfunction (M577A3 Only) (WP 0040 00).

YES

A3Y

1. Replace adapter (WP 0849 00).
2. Verify no faults found.

RIGHT REAR UTILITY OUTLET/ADMITTANCE BUZZER WORKS IMPROPERLY (M577A3 AND M1068A3 ONLY)

0042 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Digital Multimeter (WP 0926 00, Item 30)

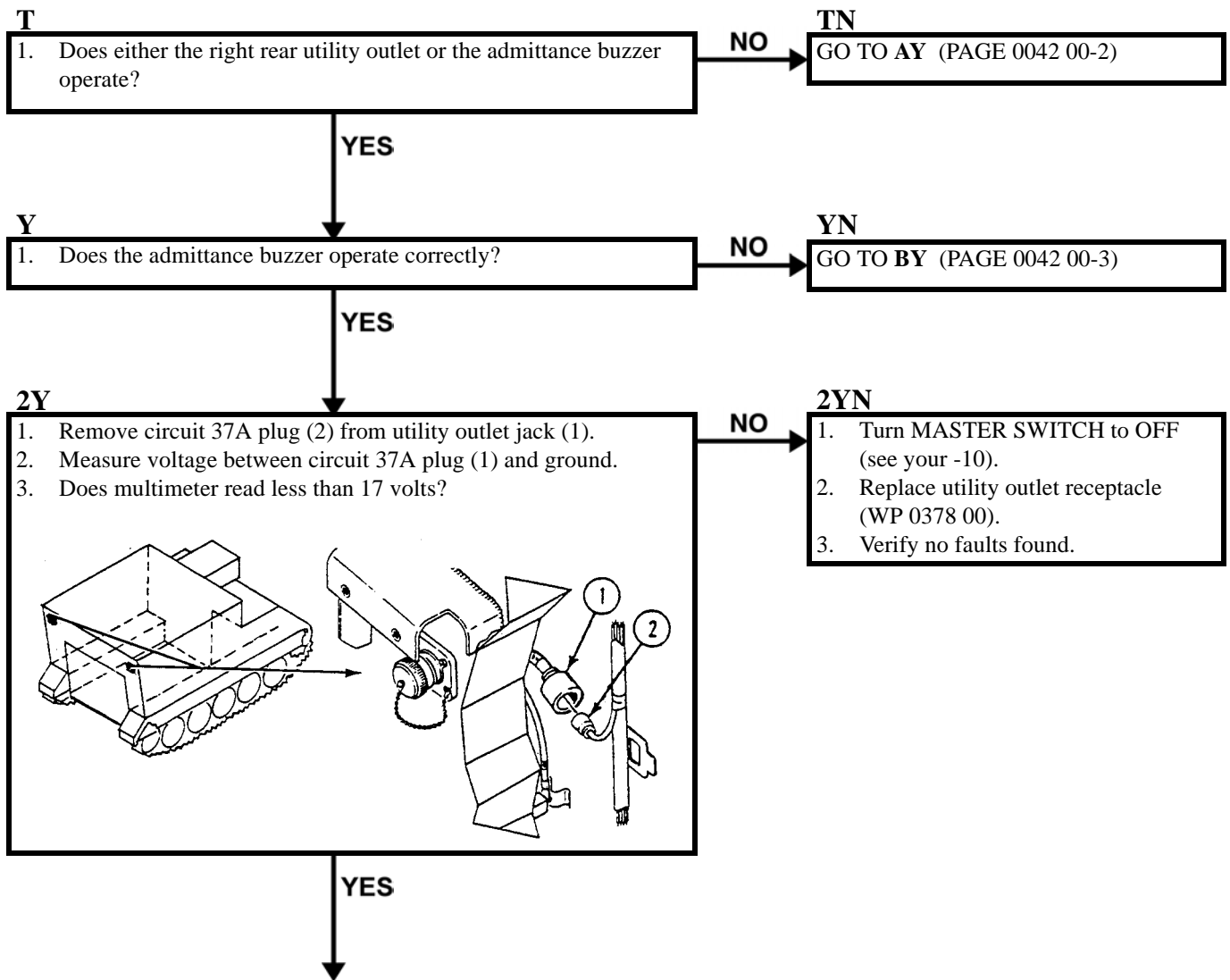
Jumper Wire

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

MASTER SWITCH turned to ON (see your -10)



**RIGHT REAR UTILITY OUTLET/ADMITTANCE BUZZER WORKS IMPROPERLY
(M577A3 AND M1068A3 ONLY) — Continued**

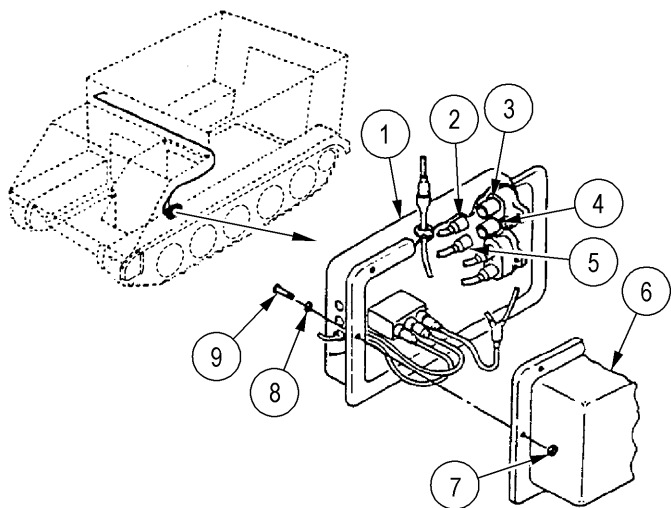
0042 00

3Y

1. Turn MASTER SWITCH to OFF.
2. Faulty rear main wiring harness. Beyond unit maintenance repair.
3. Notify supervisor.

AY

1. Remove eight nuts (7), washers (8), and screws (9) from master switch panel (6). Pull panel away from distribution box (1).
2. Remove circuit 10 and 37A plugs (2) and (5) from circuit breaker jacks (3) and (4).
3. Measure resistance between circuit breaker jacks (3) and (4).
4. Does multimeter read 0 ohms?



NO

AYN

1. Replace circuit breaker (WP 0280 00).
2. Verify no faults found.

YES

A2Y

1. Turn MASTER SWITCH to ON.
2. Measure voltage at circuit 10 plug.
3. Does multimeter read less than 17 volts?

NO

A2YN

1. Turn MASTER SWITCH to OFF.
2. Faulty rear main wiring harness circuit 37A. Beyond unit maintenance repair.
3. Notify supervisor.

YES

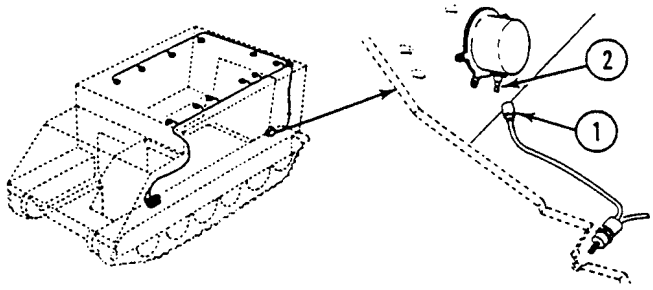
**RIGHT REAR UTILITY OUTLET/ADMITTANCE BUZZER WORKS IMPROPERLY
(M577A3 AND M1068A3 ONLY) — Continued**

0042 00

A3Y

1. Turn MASTER SWITCH to OFF.
2. Replace circuit 10 in master switch panel from the bus bar to the circuit breaker (WP 0382 00).
3. Verify no faults found.

BY

1. Remove circuit 509 plug (1) from admittance buzzer jack (2).
 2. (H): Depress admittance buzzer switch.
 3. Measure voltage between circuit 509 plug (1) and ground.
 4. Does multimeter read less than 17 volts?
- 

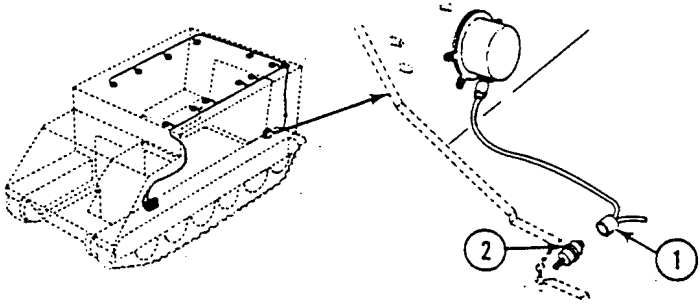
NO

BYN

1. Turn MASTER SWITCH to OFF.
2. Replace admittance buzzer (WP 0334 00).
3. Verify no faults found.

YES

B2Y

1. Remove rear main harness circuit 509 plug (1) from admittance buzzer switch (2).
 2. Install a jumper wire between admittance buzzer circuit 509 plug (1) and ground.
 3. Measure voltage across two pin contacts of circuit 509 plug (1) from admittance buzzer switch.
 4. Does multimeter read less than 17 volts?
- 

NO

B2YN

1. Turn MASTER SWITCH to OFF.
2. Replace admittance buzzer switch (WP 0334 00).
3. Verify no faults found.

YES

**RIGHT REAR UTILITY OUTLET/ADMITTANCE BUZZER WORKS IMPROPERLY
(M577A3 AND M1068A3 ONLY) — Continued**

0042 00

B3Y

1. Turn MASTER SWITCH to OFF.
2. Remove jumper wire.
3. Faulty rear main wiring harness circuit 509. Beyond unit maintenance repair.
4. Notify supervisor.

LEFT REAR UTILITY OUTLET/BLOWER DOES NOT WORK (M577A3 AND M1068A3 ONLY)

0043 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Digital Multimeter (WP 0926 00, Item 30)

Jumper wire

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

MASTER SWITCH turned to ON (see your -10)

Personnel Required

Unit Mechanic

Helper (H)

T

1. Does either the blower or the left rear utility outlet work?

NO

GO TO **BY** (PAGE 0043 00-3)

YES

Y

1. Does the blower operate normally?

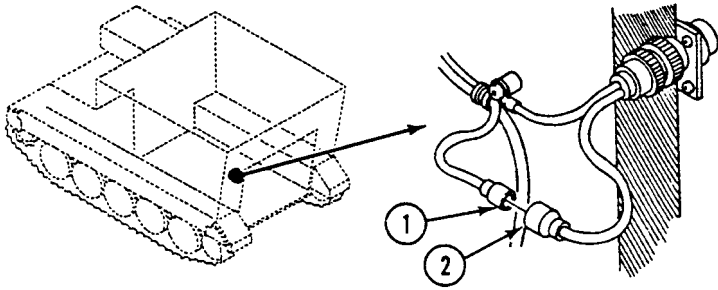
NO

GO TO **CY** (PAGE 0043 00-4)

YES

2Y

1. Remove rear main harness circuit 37B plug (1) from left rear utility outlet jack (2).
 2. Measure voltage between circuit 37B plug (1) and ground.
 3. Does multimeter read less than 17 volts?



NO

2YN

1. Turn MASTER SWITCH to OFF.
 2. Replace utility outlet receptacle (WP 0378 00).
 3. Verify no faults found.

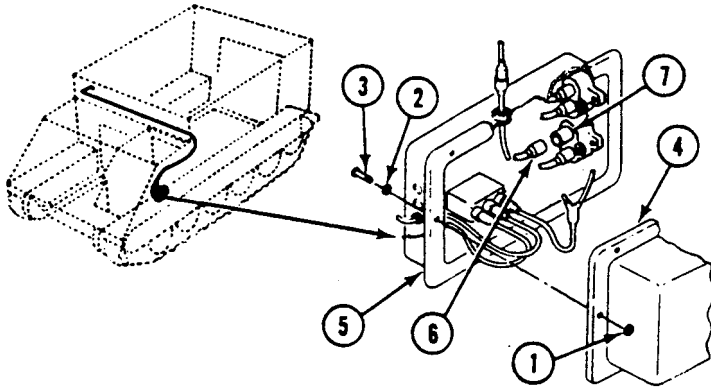
YES

LEFT REAR UTILITY OUTLET/BLOWER DOES NOT WORK (M577A3 AND M1068A3 ONLY)—Continued

0043 00

3Y

1. Turn MASTER SWITCH to OFF.
2. Remove eight nuts (1), washers (2), and screws (3) from master switch panel (4) and distribution box (5). Pull panel away from distribution box.
3. Remove circuit 37B plug (6) from circuit breaker jack (7).
4. Turn MASTER SWITCH to ON.
5. Measure voltage between circuit breaker jack (7) and ground.
6. Does multimeter read less than 17 volts?



NO

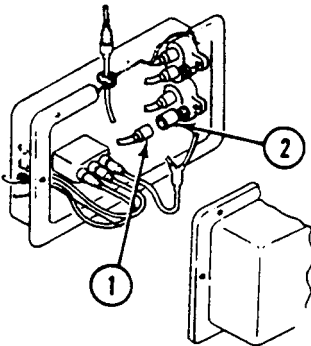
3YN

1. Turn MASTER SWITCH to OFF.
2. Faulty rear main wiring harness circuit 37B. Beyond unit maintenance repair.
3. Notify supervisor.

YES

4Y

1. Remove circuit 10 plug (1) from circuit breaker jack (2).
2. Measure voltage between circuit 10 plug (1) and ground.
3. Does multimeter read less than 17 volts?



NO

4YN

1. Turn MASTER SWITCH to OFF.
2. Replace circuit breaker (WP 0280 00).
3. Verify no faults found.

YES

LEFT REAR UTILITY OUTLET/BLOWER DOES NOT WORK (M577A3 AND M1068A3 ONLY)—Continued

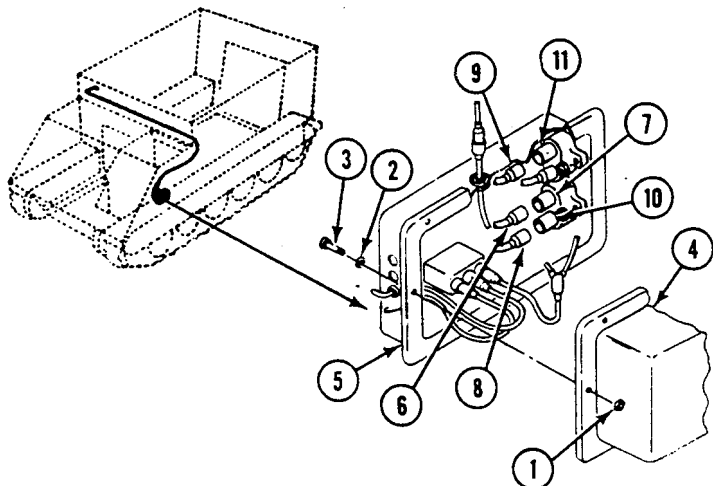
0043 00

5Y

1. Turn MASTER SWITCH to OFF.
2. Faulty circuit 10 lead from bus bar to circuit breaker. Beyond unit maintenance repair.
3. Install master switch panel on distribution box (WP 0261 00).
4. Notify supervisor.

BY

1. Turn MASTER SWITCH to OFF.
2. Remove eight nuts (1), washers (2), and screws (3) from master switch panel (4) and distribution box (5). Pull panel away from distribution box.
3. Remove circuit 37B plug (6) from circuit breaker jack (7) and two circuit 10 plugs (8) and (9) from circuit breaker jacks (10) and (11).
4. Measure resistance between circuit breaker contacts.
5. Does multimeter read 0 ohms?



YES

B2Y

1. Faulty circuit 10 from bus bar to circuit breaker. Beyond unit maintenance repair.
2. Install master switch panel on distribution box (WP 0261 00).
3. Notify supervisor.

NO

BYN

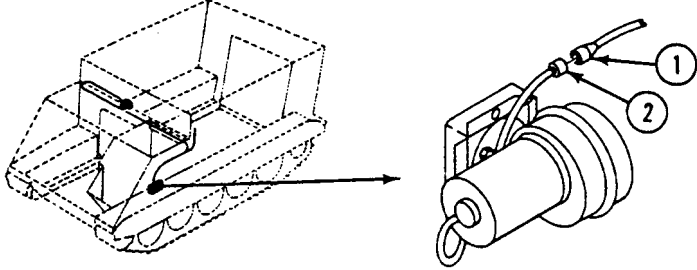
1. Replace circuit breaker (WP 0280 00).
2. Verify no faults found.

LEFT REAR UTILITY OUTLET/BLOWER DOES NOT WORK (M577A3 AND M1068A3 ONLY)—Continued

0043 00

CY

1. Turn BLOWER SWITCH to OFF.
2. Remove circuit 59 plug (1) from blower motor jack (2).
3. Turn BLOWER SWITCH to ON.
4. Measure voltage between circuit 59 plug (1) and ground.
5. Does multimeter read less than 17 volts?



NO

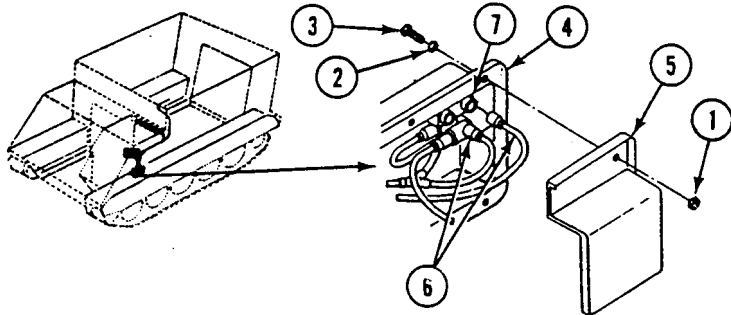
CYN

1. Replace blower motor (WP 0383 00).
2. Verify no faults found.

YES

C2Y

1. Turn MASTER SWITCH to OFF.
2. Install a jumper wire between circuit 59 plug at blower motor and ground.
3. Remove eight nuts (1), washers (2), and screws (3) from master switch panel (4) and distribution box (5). Pull panel away from distribution box.
4. Remove circuit 59 plugs (6) from blower switch (7).
5. Check for continuity between circuit 59 plugs (6).
6. Does multimeter read 0 ohms?



NO

C2YN

1. Replace blower switch (WP 0278 00).
2. Install master switch panel on distribution box.
3. Verify no faults found.

YES

LEFT REAR UTILITY OUTLET/BLOWER DOES NOT WORK (M577A3 AND M1068A3 ONLY)—Continued

0043 00

C3Y

1. Faulty wiring harness circuit 59 from circuit breaker to blower switch. Beyond unit maintenance repair.
2. Install master switch panel on distribution box (WP 0261 00).
3. Notify supervisor.

RADIO(S) DON'T WORK

0044 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

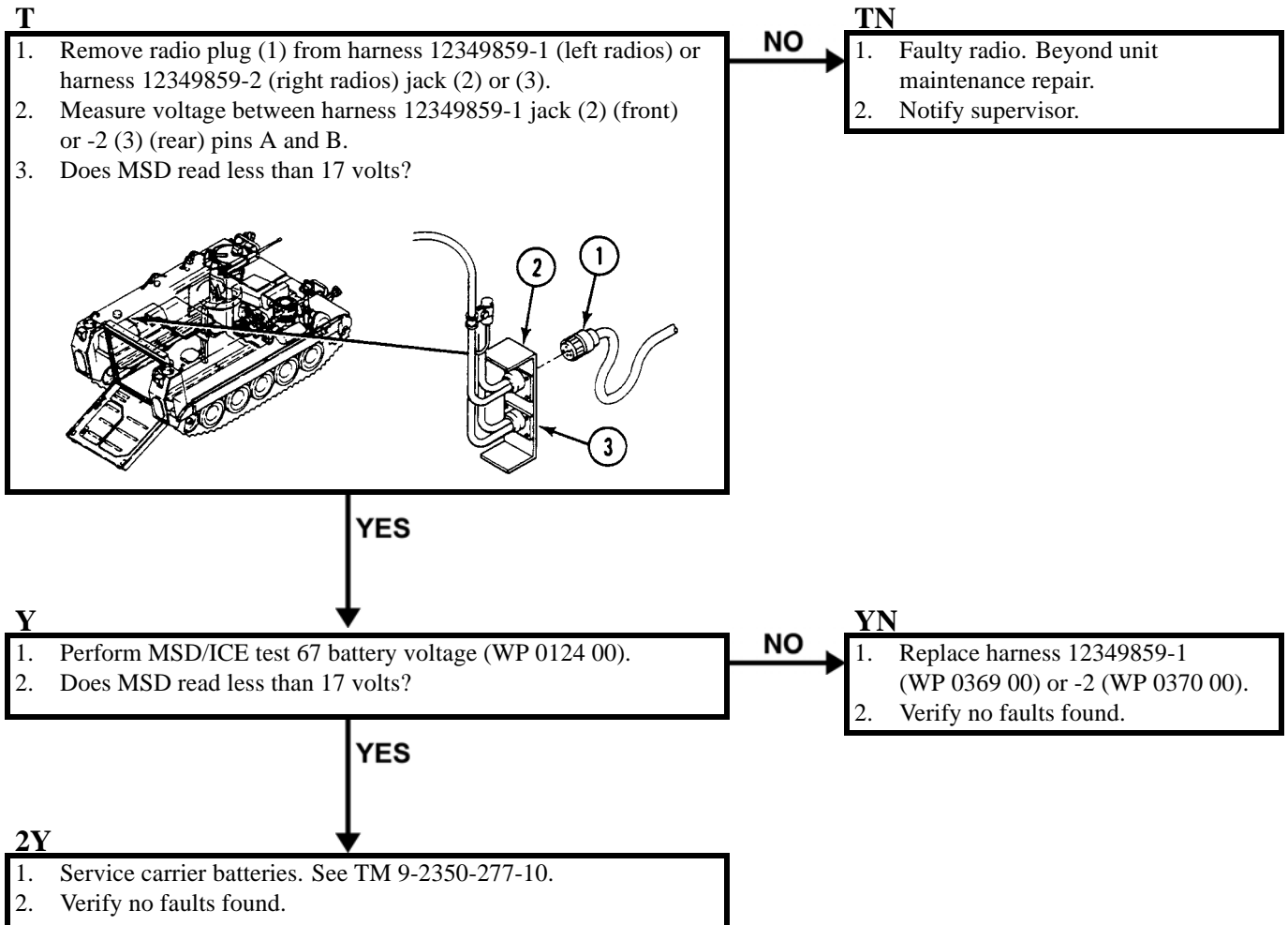
Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

NOTE

Location varies by model.



SMOKE GRENADE LAUNCHER(S) MALFUNCTION (M113A3 AND M1059A3 ONLY)

0045 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

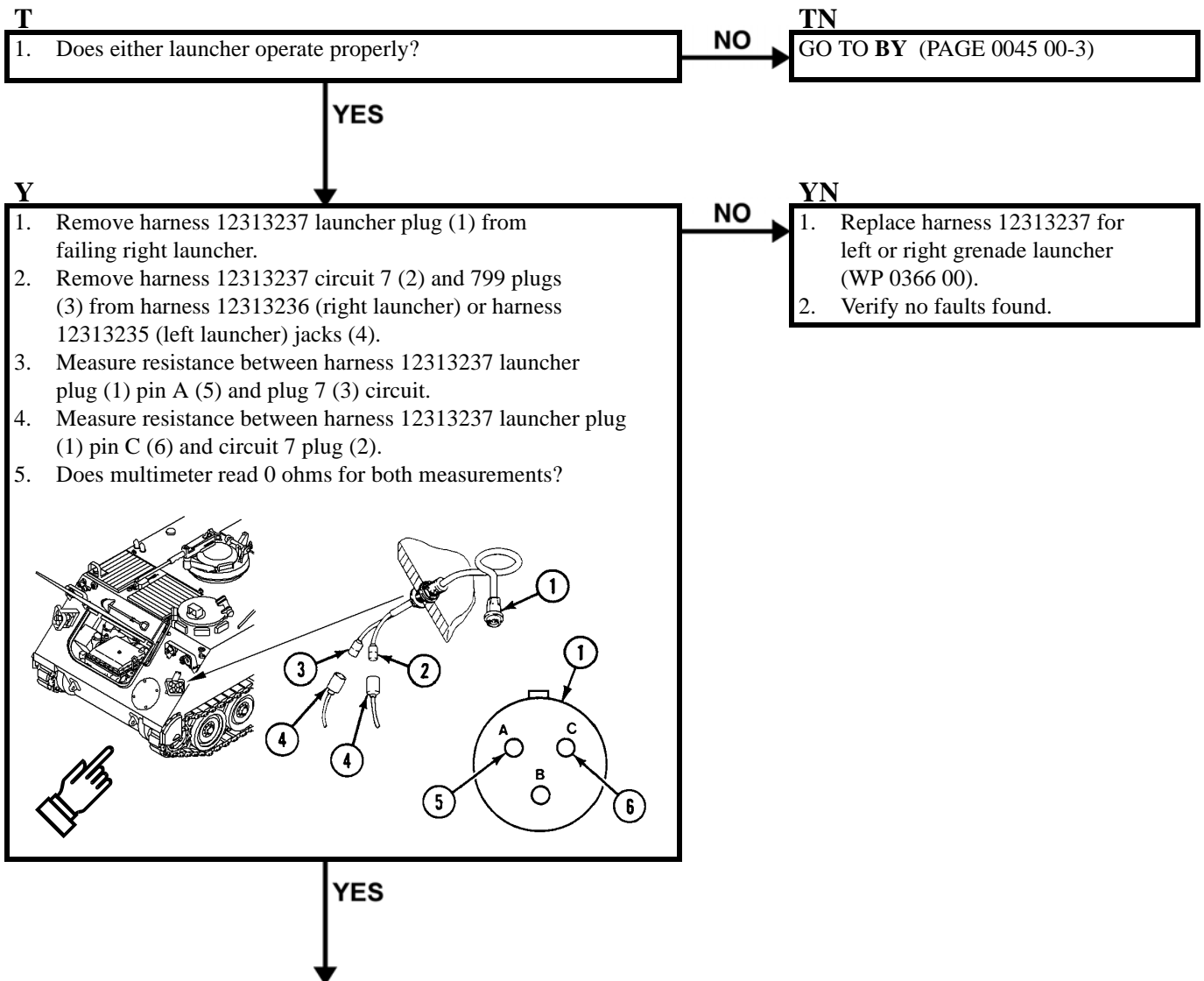
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)
- Jumper Wire

Personnel Required

- Mechanic
- Helper (H)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Harness 12313235 removed from launcher arming/firing unit (WP 0366 00)

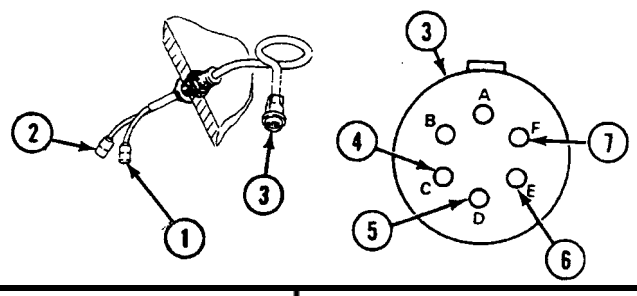


SMOKE GRENADE LAUNCHER(S) MALFUNCTION (M113A3 AND M1059A3 ONLY) — Continued

0045 00

2Y

1. Install jumper wire between harness 12313236 (right launcher) or harness 12313235 (left launcher) and circuit 7 (1) or 799 jacks (2).
2. Remove smoke grenade wiring harness from arming/firing unit.
3. Measure resistance between harness 12313235 arming/firing unit plug (3) pins C (4) and D (5) (left launcher check) or pins E (6) and F (7) (right launcher check).
4. Does multimeter read more than 0 ohms for both measurements?



NO

2YN

1. Smoke grenade wiring harness is OK. Faulty launcher or arming firing unit. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Is failing launcher on right side of carrier?

NO

3YN

1. Smoke grenade wiring harness is OK. Faulty launcher or arming/firing unit. Beyond unit maintenance repair.
2. Notify supervisor.

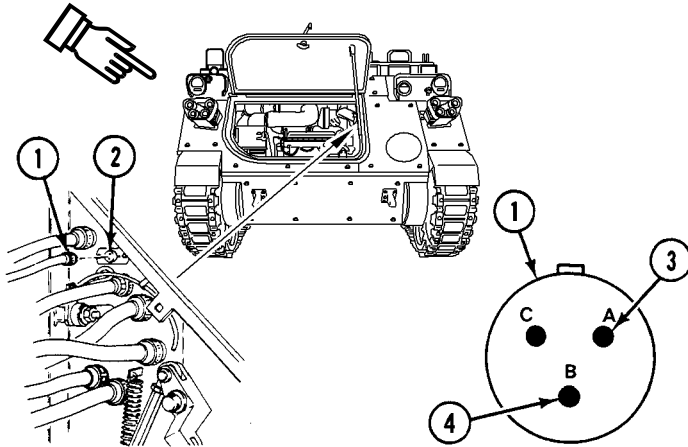
YES

SMOKE GRENADE LAUNCHER(S) MALFUNCTION (M113A3 AND M1059A3 ONLY) — Continued

0045 00

4Y

1. Remove harness 12313236 plug (1) from harness 12313235 jack (2) at vehicle bulkhead.
2. Measure resistance between harness 12313236 plug (1) pins A (3) and B (4).
3. Does multimeter read continuity?



NO

4YN

1. Replace harness 12313236 (WP 0366 00).
2. Verify no faults found.

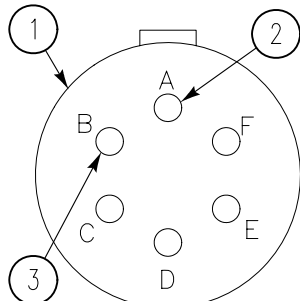
YES

5Y

1. Carrier wiring is OK. Faulty launcher or arming/firing unit. Beyond unit maintenance repair.
2. Notify supervisor.

BY

1. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
2. Measure voltage between harness 12313235 firing/arming unit plug (1) pin A (2) and B (3).
3. Does multimeter read at least 17 volts?



NO

BYN

1. Replace harness 12313235 (WP 0366 00).
2. Verify no faults found.

YES

**SMOKE GRENADE LAUNCHER(S) MALFUNCTION (M113A3 AND
M1059A3 ONLY) — Continued**

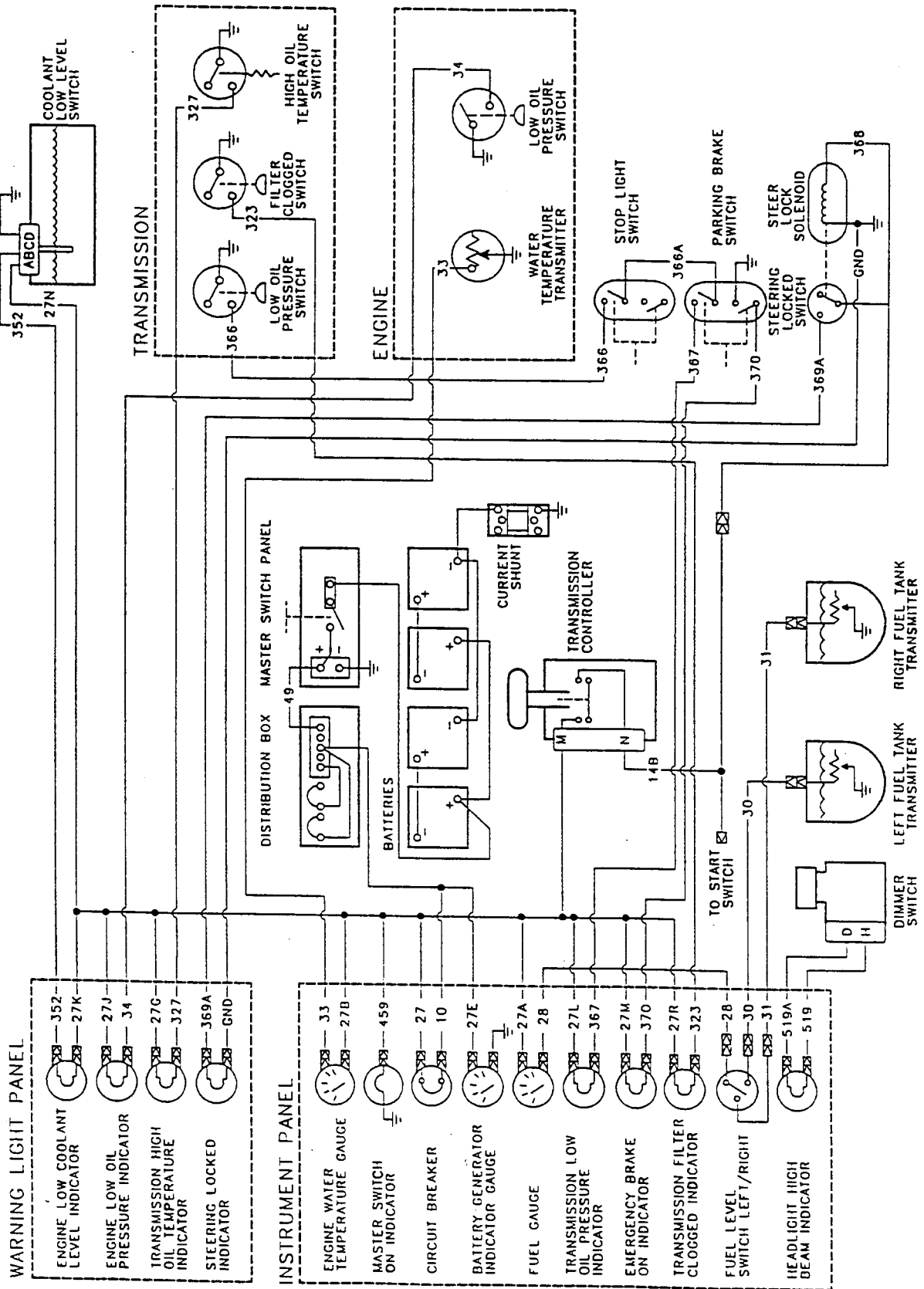
0045 00

B2Y

- | |
|---|
| <ol style="list-style-type: none">1. Faulty arming/firing unit. Beyond unit maintenance repair.2. Notify supervisor. |
|---|

INDICATORS SCHEMATIC

0046 00



MASTER SWITCH ON INDICATOR DOESN'T LIGHT

0048 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

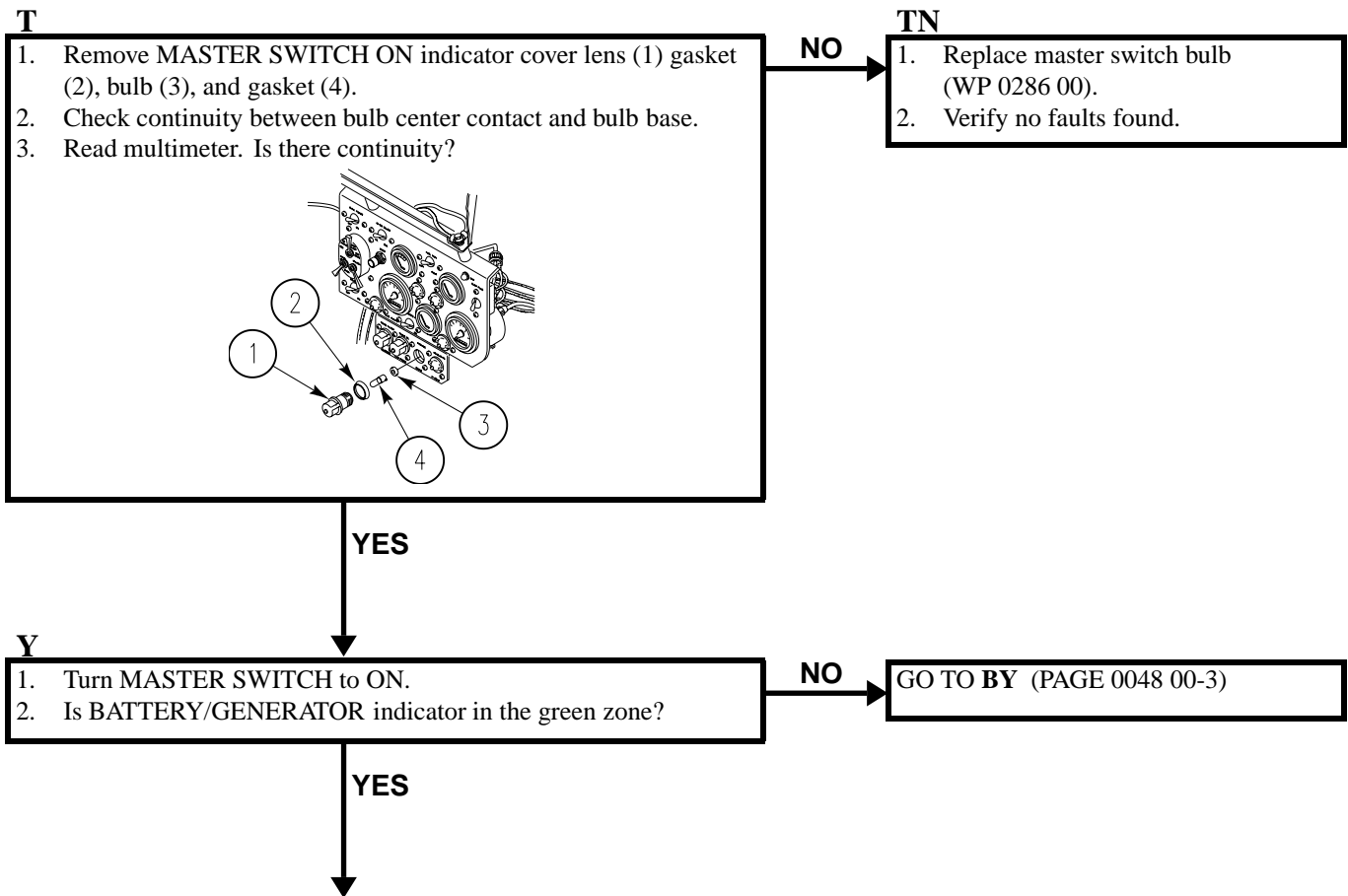
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)

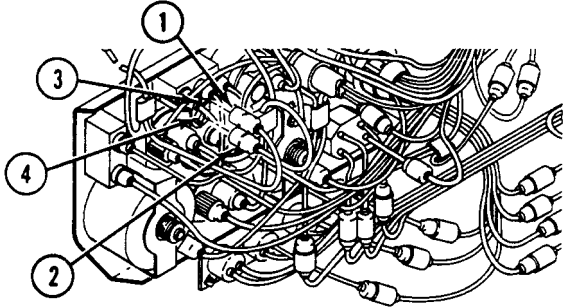
Personnel Required

- Unit Mechanic 63T10
- Helper (H)



2Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access (WP 0296 00).
3. Remove harness 10933038 circuit 10 plug (1) and cable assembly 12349858 circuit 27 plug (2) from instrument panel circuit breaker jacks (3) and (4).
4. Measure resistance between circuit breaker jacks (3) and (4).
5. Does multimeter read 0 ohms?



NO

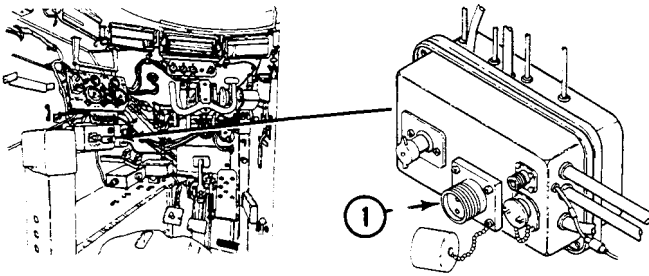
2YN

1. Replace instrument panel circuit breaker (WP 0280 00).
2. Verify no faults found.

YES

3Y

1. Measure resistance between harness 10933038 circuit 10 plug pin and master switch panel power receptacle positive jack pin (1).
2. Does multimeter read 0 ohms?



NO

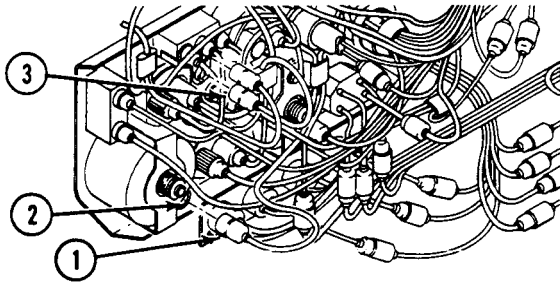
3YN

1. Replace harness 10933038 (WP 0266 00).
2. Verify no faults found.

YES

4Y

1. Remove cable assembly 12349858 circuit 459 plug (1) from MASTER SWITCH indicator jack (2)
2. Measure resistance between cable assembly circuit 27 plug (3) and circuit 459 plug (1).
3. Does multimeter read 0 ohms?



NO

4YN

1. Repair/replace cable 12349858 (WP 0382 00), (WP 0289 00).
2. Verify no faults found.

YES

5Y

1. Replace indicator light assembly (WP 0286 00).
2. Verify no faults found.

BY

1. Turn MASTER SWITCH to OFF.
2. Inspect carrier batteries (see your —10).
3. Are batteries in proper maintenance and well charged?

NO

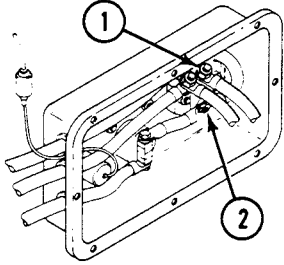
BYN

1. Service carrier batteries (see your -10).
2. Verify no faults found.

YES

B2Y

1. Remove master switch panel (WP 0260 00) or (WP 0261 00).
2. Turn MASTER SWITCH to ON.
3. Measure resistance between master switch terminals (1) and (2).
4. Does multimeter read 0 ohms?



NO

B2YN

1. Replace master switch (WP 0262 00).
2. Verify no faults found.

YES

B3Y

1. Replace harness 10933038 (WP 0266 00).
2. Verify no faults found.

FUEL LEVEL INDICATOR MALFUNCTIONS

0049 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Jumper Wire

Equipment Condition

Personnel Required

Unit Mechanic

Helper (H)

Engine stopped (see your -10)

Carrier blocked (see your -10)

T

1. Does indicator malfunction with FUEL TANK indicator switch on LEFT and on RIGHT?

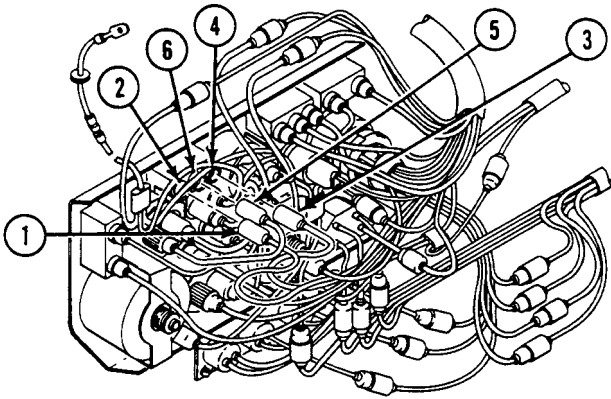
NO

GO TO BY (PAGE 0049 00-3)

YES

Y

1. Remove instrument panel for access (WP 0295 00).
2. Remove circuit 30 plug (1) from FUEL TANK switch jack (2).
3. Remove circuit 31 plug (3) from FUEL TANK switch jack (4).
4. Remove circuit 28 plug (5) from FUEL TANK switch jack (6).
5. Turn FUEL TANK switch to LEFT and measure resistance between FUEL TANK switch jack (6) and FUEL TANK switch jack (2).
6. Turn FUEL TANK switch to RIGHT and measure resistance between FUEL TANK switch jack (6) and FUEL TANK switch jack (4).
7. Did multimeter read 0 ohms both times?



NO

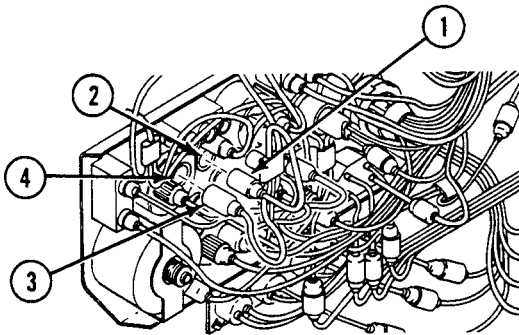
YN

1. Replace FUEL TANK select switch (WP 0277 00) or (WP 0282 00).
2. Verify no faults found.

YES

2Y

1. Remove circuit 27 plug (1) from instrument panel circuit breaker jack (2).
2. Remove circuit 27A plug (3) from fuel level indicator jack (4).
3. Check continuity between circuit 27 plug (1) and circuit 27A plug (3).
4. Does multimeter read 0 ohms?



NO

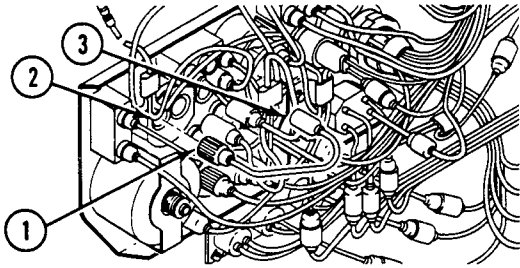
2YN

1. Install circuit 30 and 31 leads on FUEL TANK switch.
2. Replace cable assembly 12349858 circuit 27A (WP 0290 00).
3. Verify no faults found.

YES

3Y

1. Install circuit 30 and 31 plugs on FUEL TANK switch.
2. Remove circuit 28 plug (1) from FUEL LEVEL indicator jack (2).
3. Check continuity between circuit 28 plugs (1) and (3).
4. Does multimeter read 0 ohms?



NO

3YN

1. Replace lead 12268805 (WP 0281 00).
2. Verify no faults found.

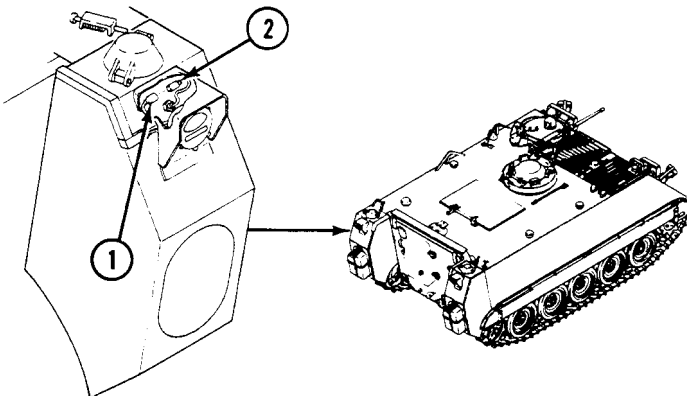
YES

4Y

1. Install circuit 28 plug on FUEL TANK switch jack.
2. Replace FUEL LEVEL indicator (WP 0285 00).
3. Verify no faults found.

BY

1. Remove harness 12268797 circuit 30 (left tank) plug (1) or circuit 31 (right tank) plug from failing fuel tank jack (2).
2. Turn FUEL TANK switch to failing side.
3. Does indicator read full scale?



NO

BYN

1. Do steps Step 2 and Step 3 for all carriers except M577A3 and M1068A3. Do steps Step 4 and Step 5 for M577A3 and M1068A3.
2. Replace harness 12268797 circuit 30 or 31 (WP 0290 00).
3. Verify no faults found.
4. Faulty circuit 29 or 30. Beyond unit maintenance repair.
5. Notify supervisor.

YES

B2Y

1. Install jumper wire between harness 12268797 circuit 30 or 31 and ground.
2. Does fuel indicator read empty?

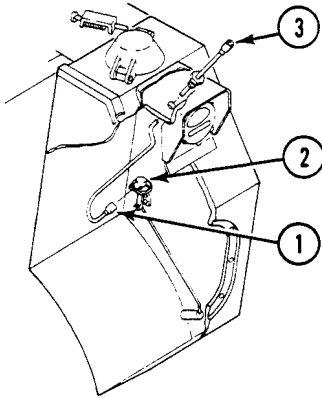
NO

GO TO CY (PAGE 0049 00-5)

YES

B3Y

1. Access failing fuel level transmitter (WP 0190 00).
2. Remove lead 12268804 -1 (or -2) plug (1) from failing transmitter jack (2).
3. Check continuity between plugs (1) and (3).
4. Does multimeter read 0 ohms?



NO

B3YN

1. Replace FUEL QUANTITY transmitter lead, 12268804 -1 (WP 0190 00) or 12268804-2 (for M577A3/M1068A3) (WP 0191 00).
2. Verify no faults found.

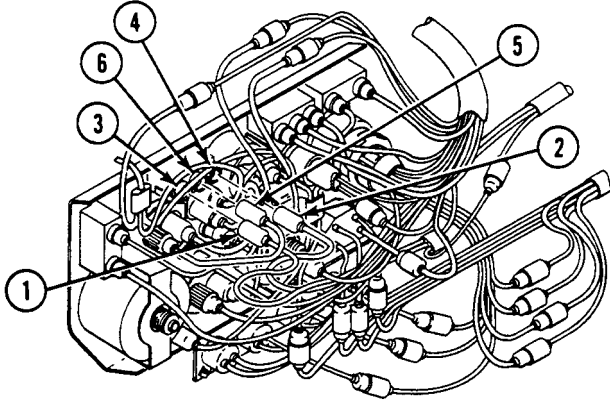
YES

B4Y

1. Replace FUEL QUANTITY transmitter (WP 0190 00) or (for M577A3/M1068A3) (WP 0191 00).
2. Verify no faults found.

CY

1. Remove instrument panel for access (WP 0295 00).
2. Remove harness 12268797 circuit 30 plug (1) (left tank) or circuit 31 plug (2) (right tank) from FUEL TANK switch jack (3) or jack (4).
3. Remove circuit 28 plug (5) from FUEL TANK switch jack (6).
4. Check continuity between exposed jack pins on FUEL TANK switch (3).
5. Does multimeter read 0 ohms?



NO

CYN

1. Install harness circuit 30 or 31 on fuel tank transmitter.
2. Replace FUEL TANK switch (WP 0277 00 or WP 0282 00).
3. Verify no faults found.

YES

C2Y

1. Do Step 2 and Step 3 for all carriers except M577A3 and M1068A3. Do Step 4 and Step 5 for M577A3 and M1068A3.
2. Replace harness 12268797 circuit 30 or 31 (WP 0290 00).
3. Verify no faults found.
4. Faulty harness circuit 29 or 30. Beyond unit maintenance repair.
5. Notify supervisor.

HIGH BEAM INDICATOR LIGHT DOESN'T WORK

0050 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

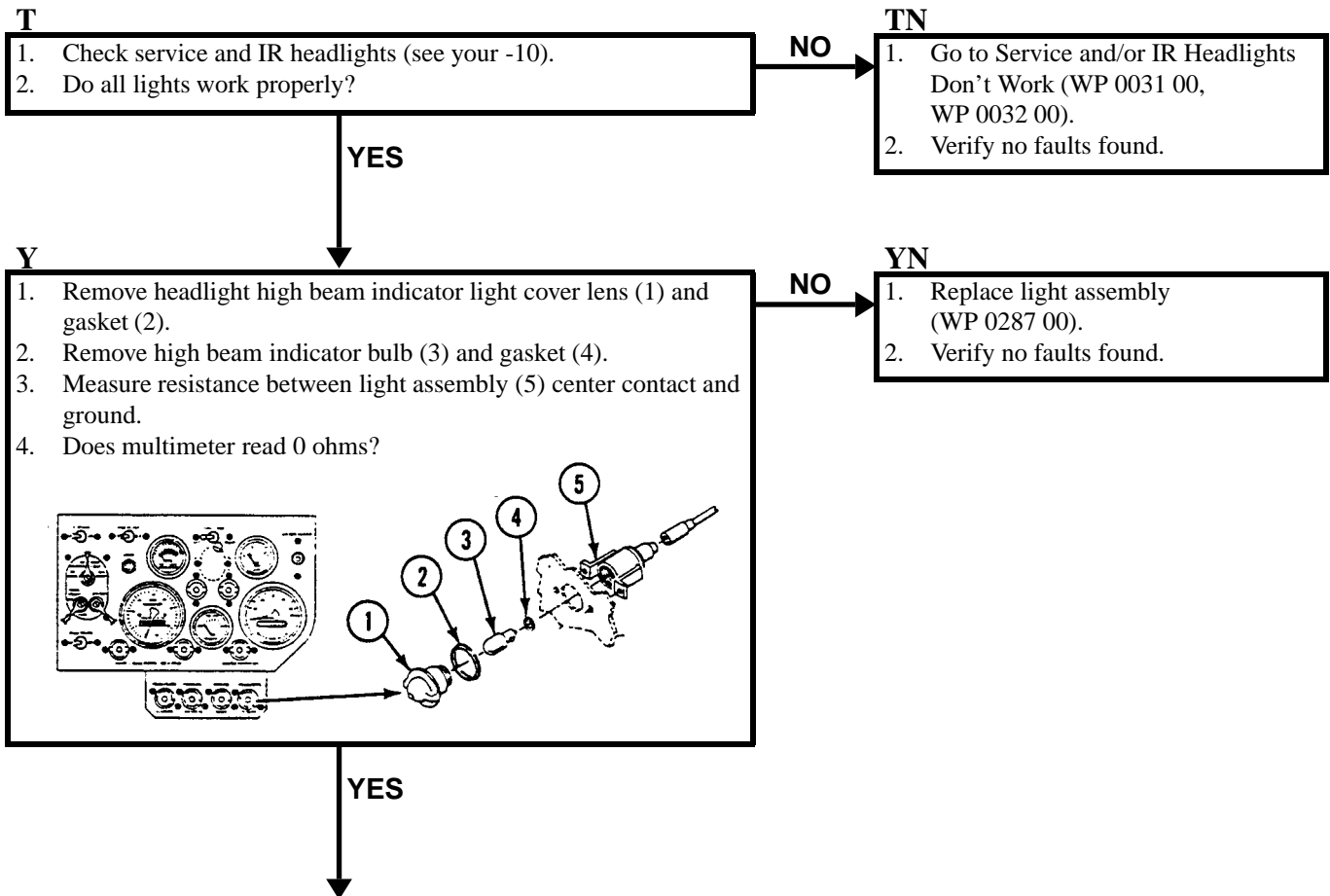
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)
- Jumper Wire

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)

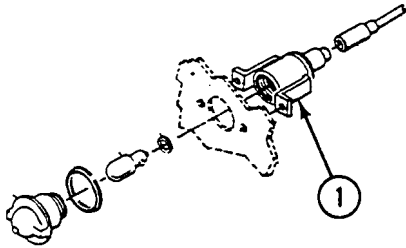
Personnel Required

- Unit Mechanic
- Helper (H)



2Y

1. Check continuity between light assembly (1) bulb base contact and ground.
2. Is there continuity?



NO

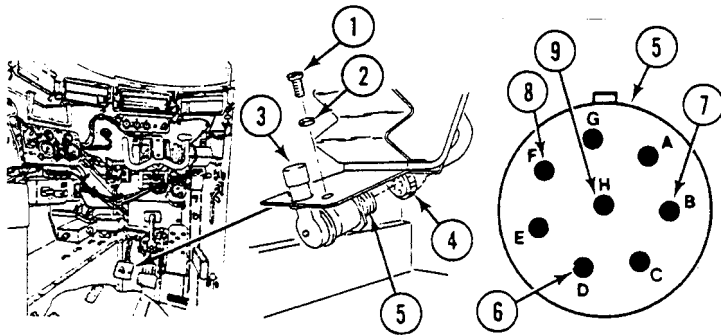
2YN

1. Replace headlight high beam indicator bulb (WP 0287 00).
2. Verify no faults found.

YES

3Y

1. Remove two screws (1), washers (2), and dimmer switch (3).
2. Remove harness 12349881 plug (4) from dimmer switch jack (5).
3. Measure resistance between dimmer switch jack (5) pins D (6) and B (7) and between pins F (8) and H (9).
4. Did multimeter read 0 ohms for both measurements?



NO

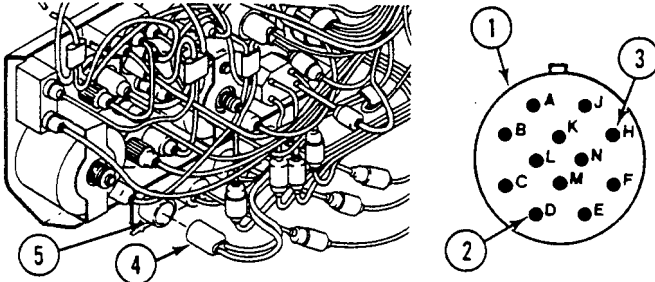
3YN

1. Replace dimmer switch (WP 0333 00).
2. Verify no faults found.

YES

4Y

1. Install jumper wire between harness 12349881 dimmer switch plug (1) pins D (2) and H (3).
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 circuit 519/519A plug (4) from high beam indicator light jack (5).
4. Measure resistance between harness 12349881 circuit 519/519A plug (4) pins.
5. Does multimeter read 0 ohms?



NO

4YN

1. Faulty harness 12349881 circuits 519 and 519A. Beyond unit maintenance repair.
2. Notify supervisor.

YES

5Y

1. Install dimmer switch and plug (WP 0333 00).
2. Replace high beam indicator light assembly (WP 0287 00).
3. Verify no faults found.

BATTERY/GENERATOR INDICATOR MALFUNCTIONS

0051 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

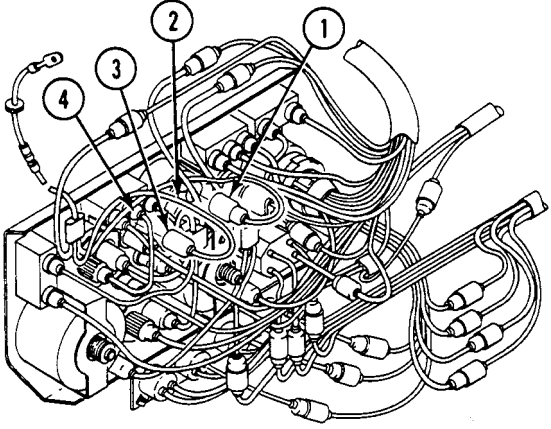
- Engine stopped (see your -10)
- Carrier blocked (see your -10)

Personnel Required

Unit Mechanic

T

1. Remove instrument panel for access (WP 0295 00).
2. Remove circuit 27E plug (1) from battery generator indicator jack (2).
3. Remove circuit 10 plug (3) from instrument panel circuit breaker jack (4).
4. Check continuity between circuit 27E plug (1) and circuit 10 plug (3).
5. Read multimeter. Is there continuity?



NO

TN

1. Replace harness 10933038 (WP 0289 00).
2. Verify no faults found.

YES

Y

1. Replace BATTERY/GENERATOR indicator (WP 0285 00).
2. Verify no faults found.

PARKING BRAKE INDICATOR MALFUNCTIONS

0052 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Jumper Wire

Equipment Condition

Engine stopped (see your -10)

Personnel Required

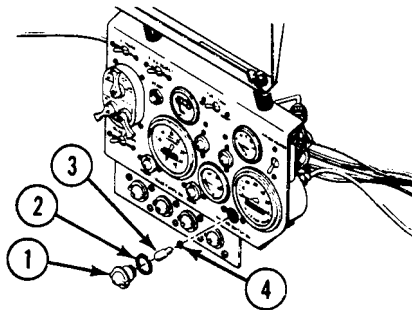
Unit Mechanic

Helper (H)

Carrier blocked (see your -10)

T

1. Remove PARKING BRAKE indicator cover lens (1), gasket (2), bulb (3), and gasket (4).
2. Check continuity between bulb center contact and bulb base.
3. Read multimeter. Is there continuity?



YES



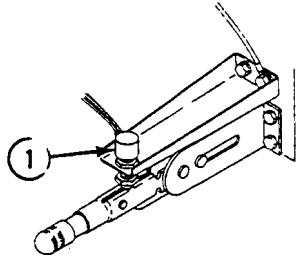
NO

TN

1. Replace indicator bulb (WP 0286 00).
2. Verify no faults found.

Y

1. Install PARKING BRAKE indicator cover lens, bulb and gaskets.
2. Release parking brake (see your -10).
3. Manually depress hand brake indicator switch (1).
4. Observe parking brake indicator.
5. Release hand brake indicator switch (1).
6. Did indicator fail to light with switch depressed, or fail to go off with switch released?



NO

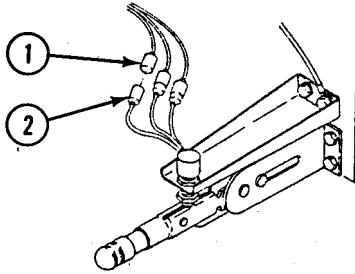
YN

1. Adjust parking brake indicator switch (WP 0331 00).
2. Verify no faults found.

YES

2Y

1. Remove harness 12349881 circuit 370 plug (1) from parking brake light switch jack (2).
2. Check continuity between parking brake light switch jack (2) and ground with parking brake switch depressed.
3. Read multimeter. Is there continuity?



NO

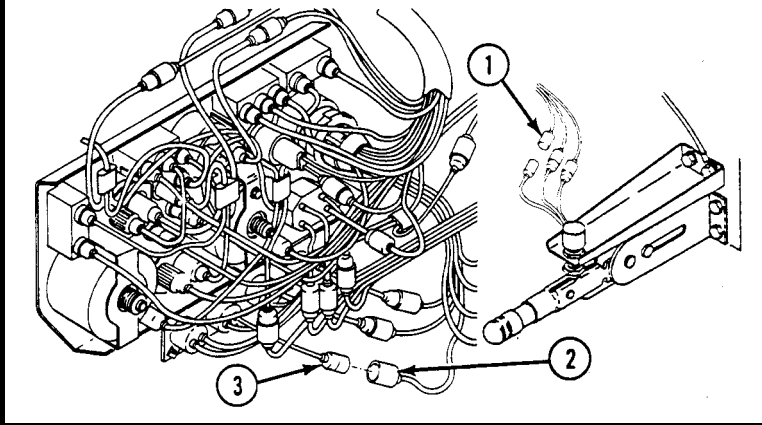
2YN

1. Replace parking brake switch (WP 0331 00).
2. Verify no faults found.

YES

3Y

1. Install jumper wire between parking brake light switch harness 12349881 circuit 370 plug (1) and ground.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 circuit 370 (2) from cable assembly 12349858 circuit 370 (3).
4. Check continuity between harness 12349881 circuit 370 (2) and ground.
5. Read multimeter. Is there continuity?



YES

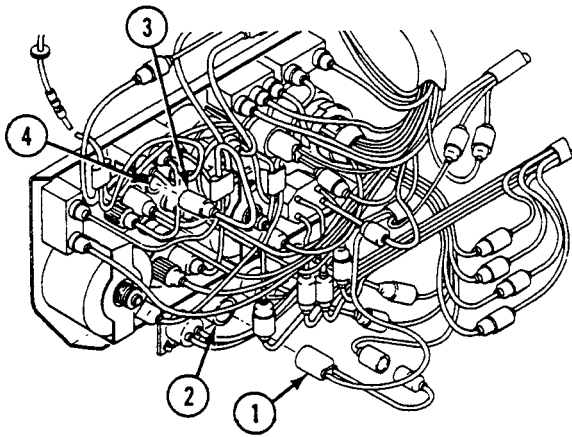
NO

3YN

1. Faulty harness 12349881 circuit 370. Beyond unit maintenance repair.
2. Notify supervisor.

4Y

1. Remove jumper wire from harness 12349881 circuit 370.
2. Install harness 12349881 on brake light switch.
3. Remove cable assembly 12349858 circuit 27M plug (1) from parking brake indicator jack (2).
4. Remove cable assembly 12349858 circuit 27 plug (3) from instrument panel circuit breaker jack (4).
5. Check continuity between cable assembly 12349858 circuit 27 plug (3) and circuit 27M plug (1). Use multimeter.
6. Check continuity between cable assembly 12349858 circuit 27 (3) and circuit 370 plugs.
7. Read multimeter. Is there continuity both times?



NO

4YN

1. Replace cable assembly 12349858 (WP 0290 00).
2. Verify no faults found.

YES

5Y

1. Replace indicator light assembly 8729063 (WP 0286 00).
2. Verify no faults found.

COOLANT TEMP INDICATOR MALFUNCTIONS

0053 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)
- Jumper Wire

Personnel Required

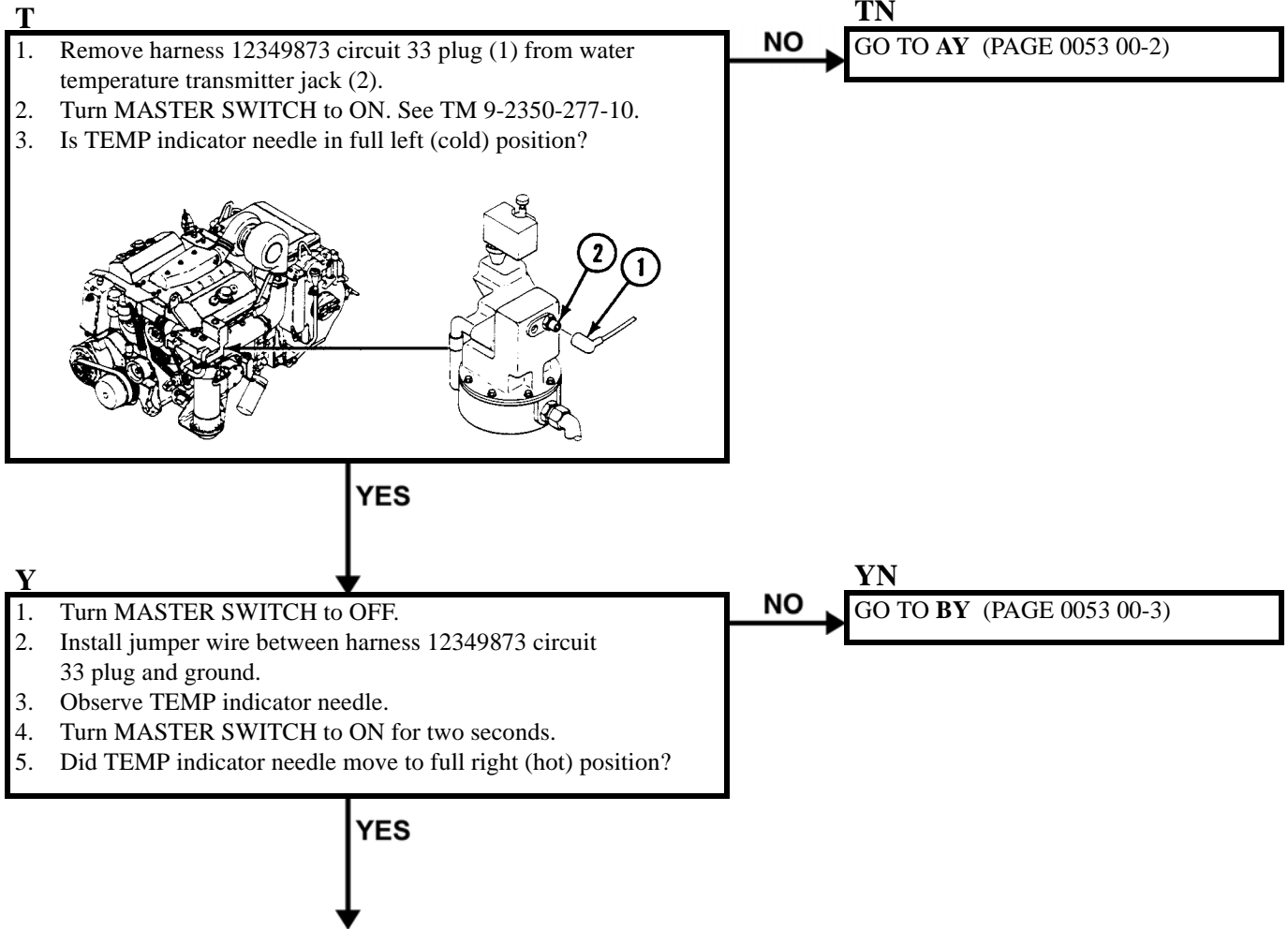
Mechanic

References

TM 9-2350-277-10

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)

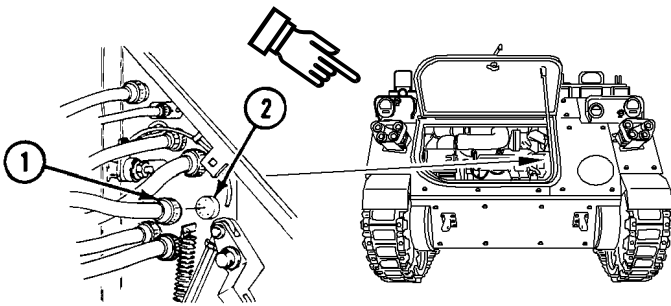


2Y

1. Remove jumper wire.
2. Replace water temperature transmitter (WP 0321 00).
3. Verify no faults found.

AY

1. Turn MASTER SWITCH to OFF.
2. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
3. Turn MASTER SWITCH to ON.
4. Is TEMP indicator still not in full left (cold) position?



NO

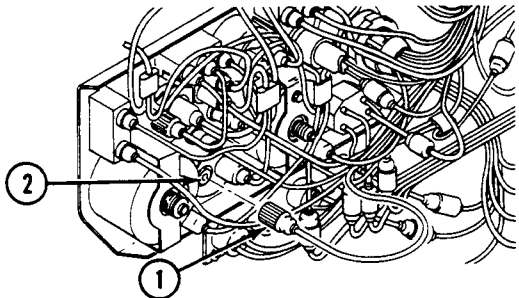
AYN

1. Replace harness 12349873 circuit 33 (WP 0359 00).
2. Verify no faults found.

YES

A2Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 circuit 33 plug (1) from TEMP indicator jack (2).
4. Measure resistance between harness 12349881 circuit 33 plug (1) and ground.
5. Is reading 0 ohms?



NO

A2YN

1. Faulty harness 12349881 circuit 33. Beyond unit maintenance repair.
2. Notify supervisor.

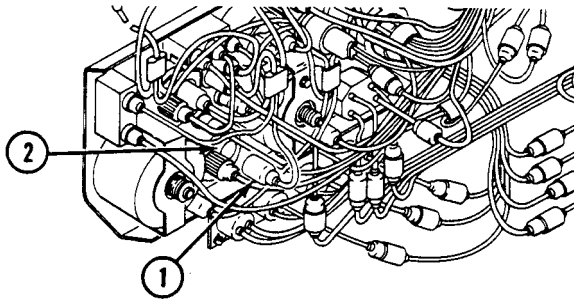
YES

A3Y

1. Install harness 12349881 plug on harness 12349881 jack at carrier bulkhead.
2. Install harness 12349873 circuit 33 plug on TEMP transmitter jack.
3. Replace TEMP indicator (WP 0285 00).
4. Verify no faults found.

BY

1. Remove special purpose cable 12349858 circuit 27B plug (1) from coolant temperature gauge (2).
2. Turn MASTER SWITCH to ON.
3. Measure voltage between harness 12349858 circuit 27B plug (1) pin and ground.
4. Does multimeter read at least 17 volts?



YES

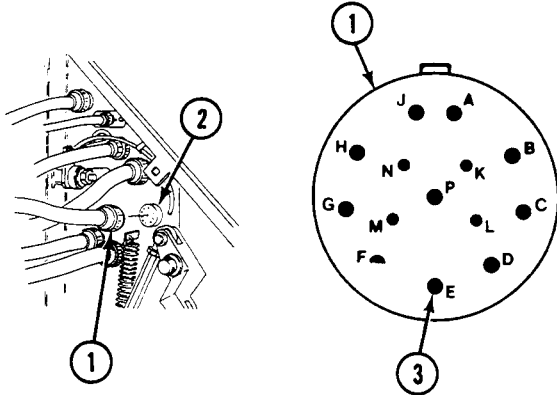
BYN

1. Repair/replace faulty special purpose cable 12349858 circuit 27B (WP 0290 00).
2. Verify no faults found.

NO

B2Y

1. Turn MASTER SWITCH to OFF.
2. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
3. Check continuity between harness 12349873 plug (1) pin E (3) and ground.
4. Is there continuity?



YES

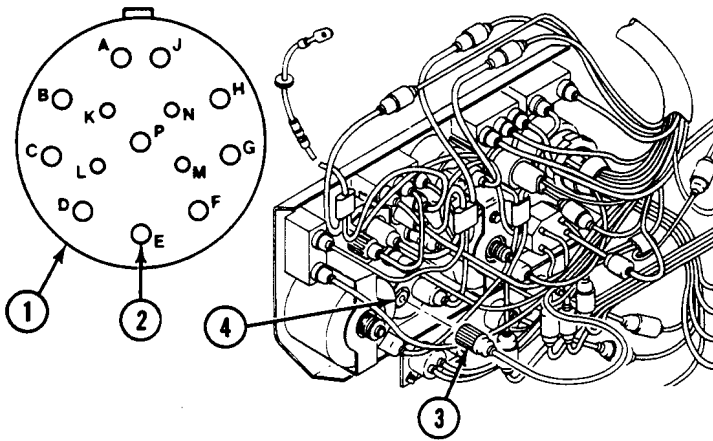
NO

B2YN

1. Repair harness 12349873 circuit 33 (WP 0382 00).
2. Verify no faults found.

B3Y

1. Remove jumper wire.
2. Install harness 12349873 circuit 33 plug on water temperature transmitter.
3. Install jumper wire between harness 12349881 jack (1) pin E (2) and ground.
4. Remove harness 12349881 circuit 33 plug (3) from TEMP indicator jack (4).
5. Check continuity between harness 12349881 circuit 33 (3) and ground.
6. Is there continuity?



NO

B3YN

1. Remove jumper wire.
2. Repair harness 12349881 circuit 33 (WP 0382 00).
3. Verify no faults found.

YES

B4Y

1. Remove jumper wire.
2. Install harness 12349873 plug onto harness 12345881 jack at carrier bulkhead.
3. Replace TEMP indicator (WP 0285 00).
4. Verify no faults found.

STEERING LOCKED INDICATOR MALFUNCTIONS

0054 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

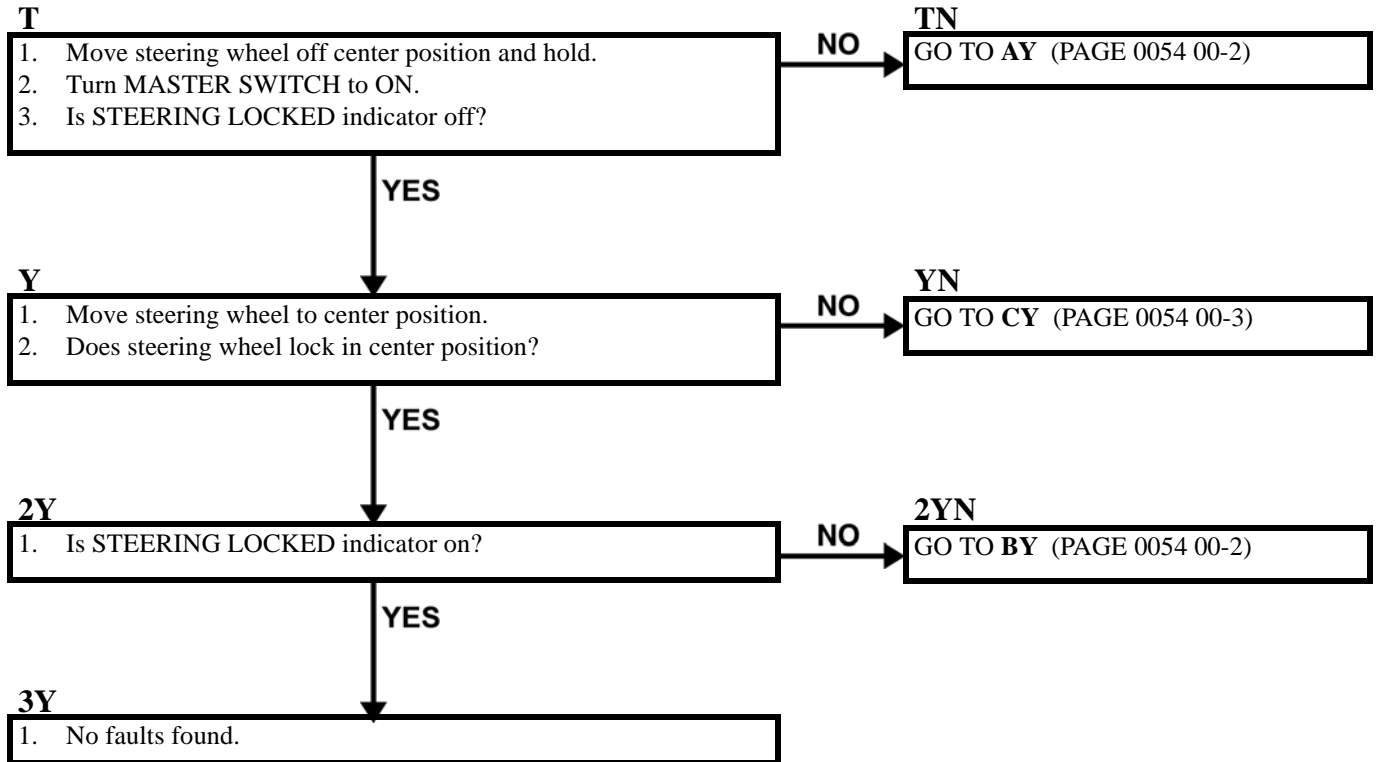
Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

NOTE

Some vehicles are equipped with a solenoid-activated steering lock and some with a cable-activated lock. Unless noted otherwise, the steps in this procedure apply to both configurations.



AY

1. Check adjustment of steering locked indicator switch. See WP 0428 00 for solenoid-activated lock. See WP 0429 00 for cable-activated lock.
2. Is switch properly adjusted?

NO → **AYN**

1. Adjust steering locked switch. See WP 0428 00 for solenoid-activated lock. See WP 0429 00 for cable-activated lock.
2. Verify no faults found.

YES ↓

A2Y

1. Replace steering lock switch (WP 0330 00).
2. Verify no faults found.

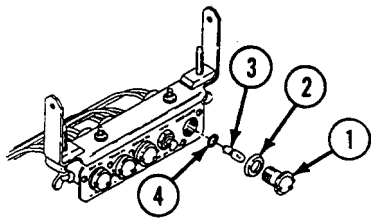
BY

1. Remove STEERING LOCKED indicator light cover lens (1), gasket (2), bulb (3), and gasket (4).
2. Check continuity between bulb center contact and base.
3. Does multimeter indicate continuity?

NO → **BYN**

1. Replace STEERING LOCKED indicator bulb (WP 0294 00).
2. Verify no faults found.

YES ↓



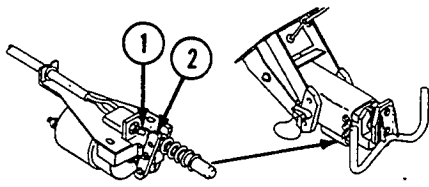
B2Y

1. Install STEERING LOCKED indicator cover lens, bulb, and gaskets.
2. Inspect distance between steering locked switch (1) and steering locked lever (2).
3. Is steering locked switch touching steering locked lever?

NO → **B2YN**

B2YN GO TO CY (PAGE 0054 00-3)

YES ↓

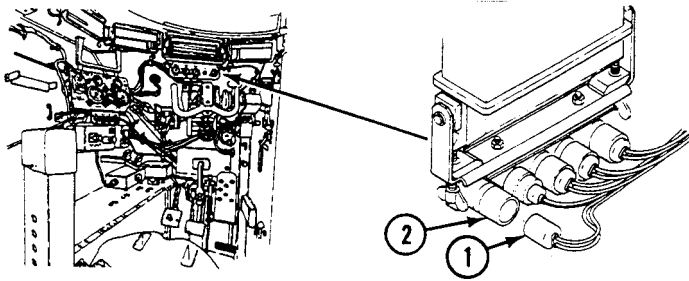


B3Y

1. Adjust steering locked switch. See WP 0428 00 for solenoid-activated lock. See WP 0429 00 for cable-activated lock.
2. Verify no faults found.

CY

1. Remove harness 12354722 (for solenoid-activated lock) or 12369685 (for cable-activated lock) plug (1) from STEERING LOCKED indicator assembly jack (2) on back side of warning light panel.
2. Measure voltage between plug (1) pins.
3. Does multimeter read less than 17 volts?



YES

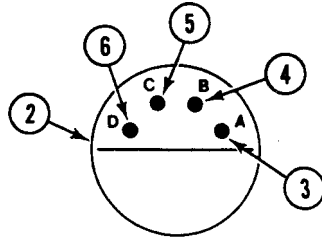
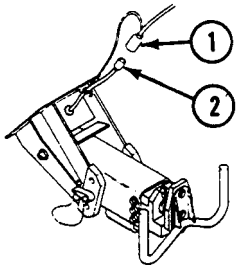
CYN

1. Replace STEERING LOCKED warning light assembly (WP 0294 00).
2. Verify no faults found.

NO

C2Y

1. Turn MASTER SWITCH to OFF.
2. For solenoid-activated lock, remove harness 12354722 plug (1) from harness 12349911 jack (2). For cable-activated lock, remove harness 12369685 plug (1) from harness 1236984 jack (2).
3. H: For solenoid-activated lock, push and hold solenoid plunger while measuring resistance.
4. For solenoid-activated lock, measure resistance between harness 12349911 jack (2) pins A (3) to B (4) and pins C (5) to D (6). For cable-activated lock, measure resistance between harness 12369684 jack (2) pins A (3) to B (4).
5. Did multimeter read more than 0 ohms either time?



YES



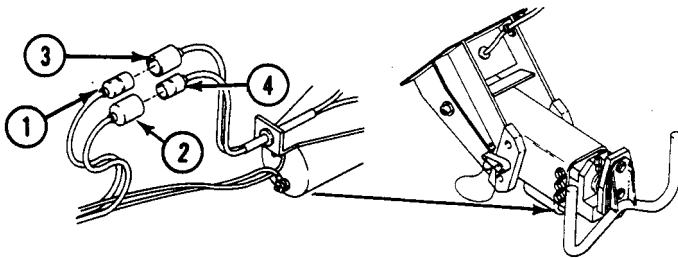
NO

C2YN

1. Replace harness 12354722 (for solenoid-activated lock) or 12369685 (for cable- activated lock) circuit 369A and/or ground circuit (WP 0374 00).
2. Verify no faults found.

C3Y

1. Install harness 12369685 (for cable-activated lock) plug on STEERING LOCKED indicator jack.
2. For solenoid-activated lock, remove harness 12349911 lead 369A plug (1) and lead 369 plug (2) from steering locked switch jacks (3) and (4). For cable-activated lock, remove harness 12369684 lead 368 plug (1) and lead 369A plug (2) from steering locked switch jacks (3) and (4).
3. H: For solenoid-activated lock, push and hold solenoid plunger while measuring resistance.
4. Measure resistance between steering locked switch jacks (3) and (4).
5. Does multimeter read 0 ohms?



YES

C4Y

1. Replace harness 12349911 (for solenoid-activated lock) circuit 369, 369A, 368, 368A, or harness 12369684 (for cable-activated lock) circuit 369A and 368, and/or ground (WP 0367 00).
2. Verify no faults found.

NO

C3YN

1. Replace steering locked switch (WP 0330 00).
2. Verify no faults found.

ENGINE OIL LOW PRESSURE INDICATOR MALFUNCTIONS

0055 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Jumper Wire

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

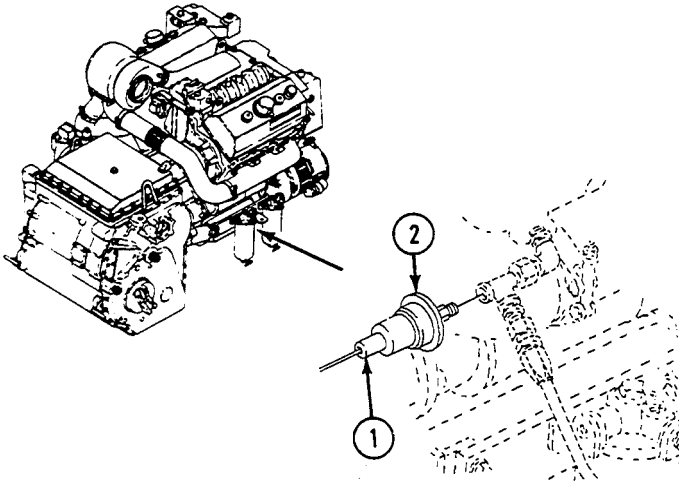
Personnel Required

Unit Mechanic

Front power plant access door open (see your -10)

T

1. Remove harness 12349873 circuit 34 plug (1) from engine oil low pressure transmitter (2).
2. Turn MASTER SWITCH to ON (see your -10).
3. Is ENGINE OIL LOW PRESSURE indicator off?



NO

GO TO AY (PAGE 0055 00-2)

YES

Y

1. Install jumper wire between harness 12349873 circuit 34 plug pin and ground.
2. Is ENGINE OIL LOW PRESSURE indicator on?

NO

GO TO BY (PAGE 0055 00-3)

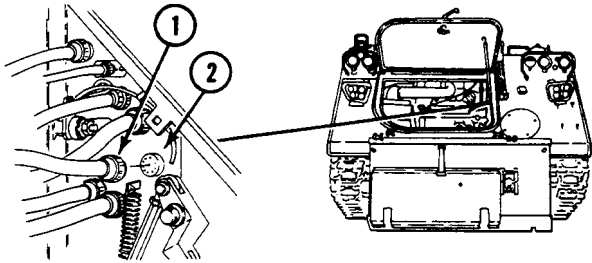
YES

2Y

1. Replace the engine oil low pressure transmitter (WP 0320 00).
2. Verify no faults found.

AY

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Is ENGINE OIL LOW PRESSURE indicator still on?



NO

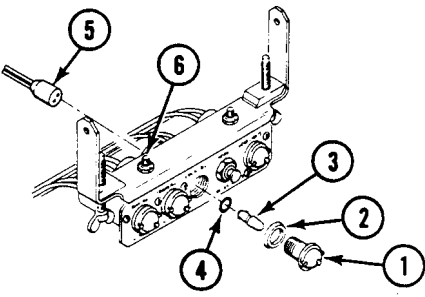
AYN

1. Replace harness 12349873 circuit 34 (WP 0382 00).
2. Verify no faults found.

YES

A2Y

1. Remove ENGINE OIL LOW PRESSURE indicator cover lens (1) gasket (2), bulb (3), and gasket (4).
2. Remove harness 12349881 circuit 27J/34 plug (5) from ENGINE OIL LOW PRESSURE indicator jack (6).
3. Measure resistance between indicator jack (6) pins and ground one at a time.
4. Did multimeter read 0 ohms for either measurement?



NO

A2YN

1. Faulty harness 12349881 circuit 34. Beyond unit maintenance repair.
2. Notify supervisor

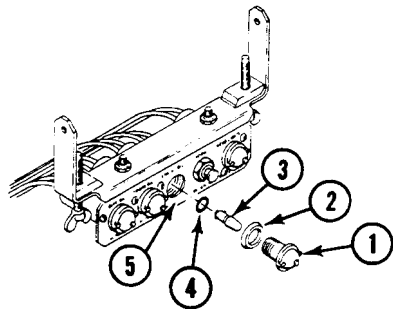
YES

A3Y

1. Replace ENGINE OIL LOW PRESSURE indicator light assembly (WP 0320 00).
2. Verify no faults found.

BY

1. Remove ENGINE OIL LOW PRESSURE indicator cover lens (1), gasket (2), bulb (3), and gasket (4) from indicator assembly (5).
2. Measure voltage between indicator assembly (5) center contact and ground.
3. Does multimeter read less than 17 volts?



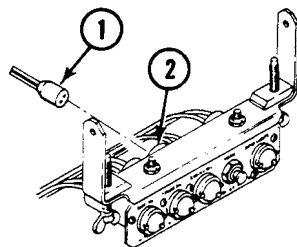
NO

GO TO CY (PAGE 0055 00-5)

YES

B2Y

1. Remove harness 12349881 circuit 27J/34 plug (1) from ENGINE OIL LOW PRESSURE indicator assembly jack (2).
2. Measure voltage between circuit 27J plug pin and ground.
3. Does multimeter read less than 17 volts?



NO

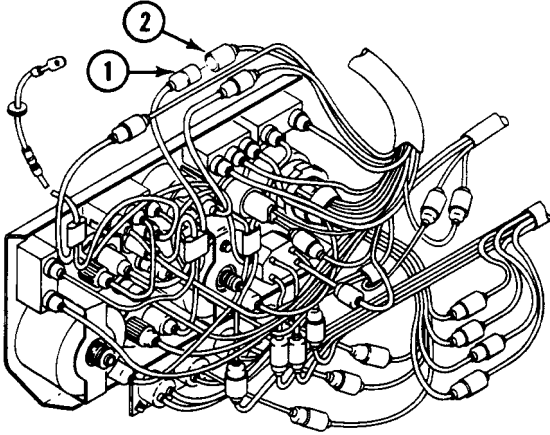
B2YN

1. Replace ENGINE OIL LOW PRESSURE indicator assembly (WP 0320 00).
2. Verify no faults found.

YES

B3Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access. See task: remove instrument panel mounts and ground lead (WP 0295 00).
3. Remove harness 12349881 circuit 27F plug (1) from cable assembly 12349858 circuit 27F jack (2).
4. Measure resistance between harness 12349881 circuit 27J plug and circuit 27F plug (1).
5. Does multimeter read 0 ohms?



NO

B3YN

1. Faulty harness 12349881 circuit 27F/27J. Beyond unit maintenance repair.
2. Notify supervisor

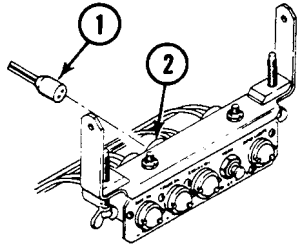
YES

B4Y

1. Repair special purpose cable 12349858 circuit 27F (WP 0382 00).
2. Verify no faults found.

CY

1. Remove harness 12349881 circuit 27J/34 plug (1) from ENGINE OIL LOW PRESSURE indicator assembly jack (2).
2. Measure resistance between circuit 34 plug pin and ground.
3. Does multimeter read more than 0 ohms?



NO

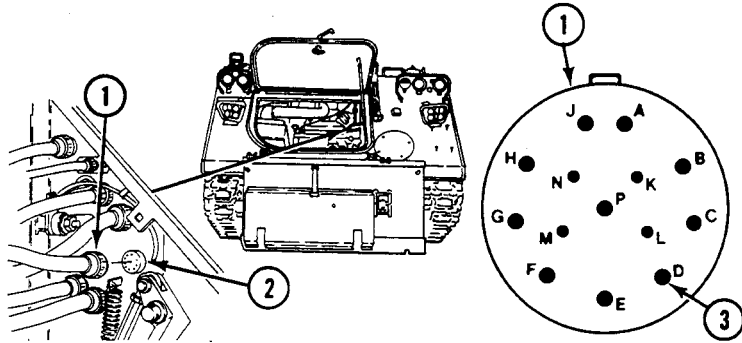
CYN

1. Install harness 12349881 plug on ENGINE OIL LOW PRESSURE indicator jack.
2. Remove jumper wire.
3. Replace engine oil low pressure switch (WP 0320 00).
4. Verify no faults found.

YES

C2Y

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Measure resistance between harness 12349873 plug (1) pin D (3) and ground.
3. Does multimeter read 0 ohms?



NO

C2YN

1. Remove jumper wire.
2. Install harness 12349881 plug on ENGINE OIL LOW PRESSURE indicator assembly jack.
3. Install indicator cover lens and bulb.
4. Replace harness 12349873 circuit 34 (WP 0382 00).
5. Verify no faults found.

YES

C3Y

1. Remove jumper wire.
2. Install harness 12349873 onto ENGINE OIL LOW PRESSURE switch.
3. Faulty harness 12349881 circuit 34. Beyond unit maintenance repair.
4. Notify supervisor.

TRANSMISSION OIL LOW PRESSURE INDICATOR MALFUNCTIONS

0056 00

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Parking brake off (TM 9-2350-277-10)

Service brake off (TM 9-2350-277-10)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Jumper Wire

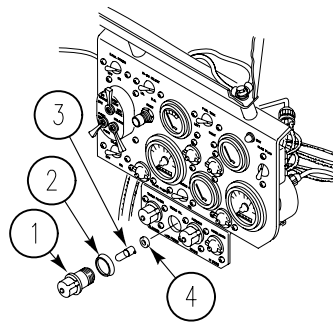
Personnel Required

Mechanic

Helper (H)

T

1. Remove TRANS OIL LOW PRESS indicator lens (1), gasket (2), bulb (3), and gasket (4).
2. Check continuity between bulb base and bulb center contact.
3. Is there continuity?



YES

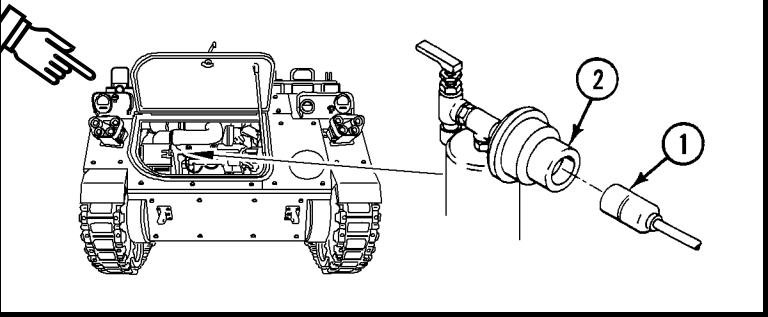
NO

TN

1. Replace TRANS OIL LOW PRESS bulb (WP 0287 00).
2. Verify no faults found.

Y

1. Install TRANS OIL LOW PRESS bulb and cover lens.
2. Remove harness 12349810 circuit 366 plug (1) from TRANS OIL LOW PRESS switch assembly jack (2).
3. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
4. Is TRANS OIL LOW PRESS indicator off?



NO → **YN**
GO TO AY (PAGE 0056 00-3)

YES

2Y

1. Install jumper wire between harness 12349810 circuit 366 plug and ground.
2. Is TRANS OIL LOW PRESS indicator on?

NO → **2YN**
GO TO BY (PAGE 0056 00-6)

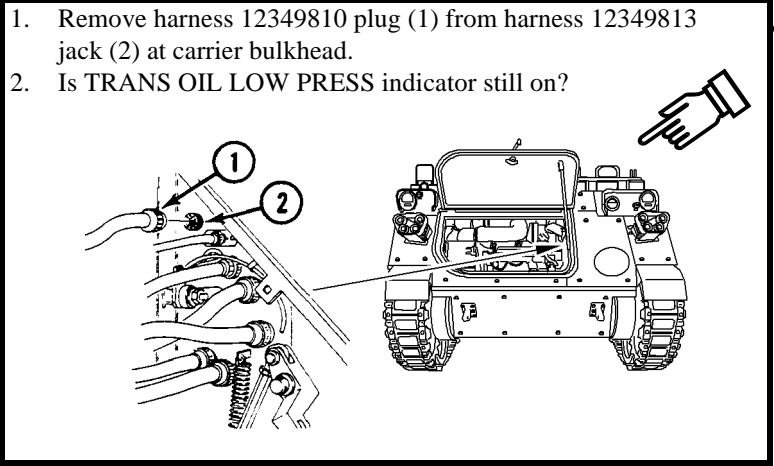
YES

3Y

1. Replace TRANS OIL LOW PRESS switch (WP 0400 00).
2. Verify no faults found.

AY

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Is TRANS OIL LOW PRESS indicator still on?



NO

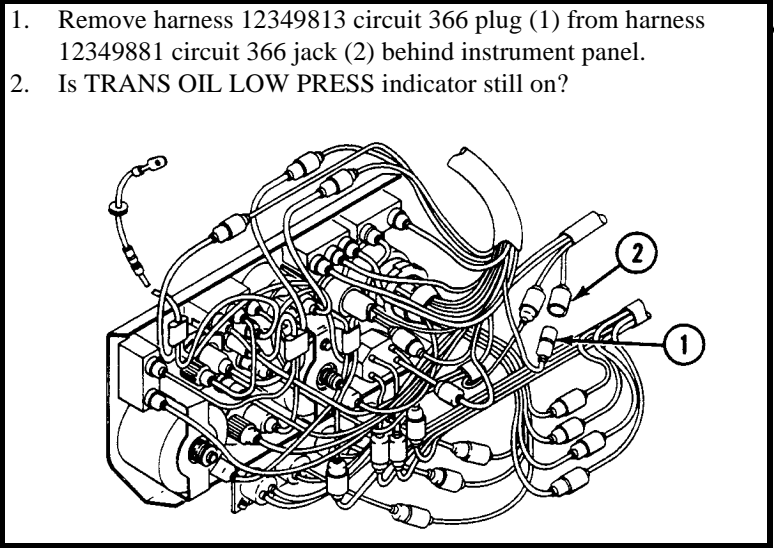
AYN

1. Replace harness 12349810 (WP 0361 00).
2. Verify no faults found.

YES

A2Y

1. Remove harness 12349813 circuit 366 plug (1) from harness 12349881 circuit 366 jack (2) behind instrument panel.
2. Is TRANS OIL LOW PRESS indicator still on?



NO

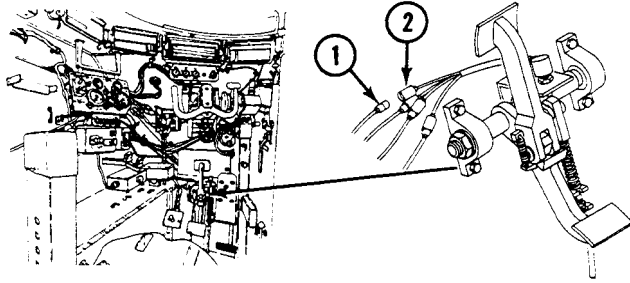
A2YN

1. Replace harness 12349813 (WP 0360 00).
2. Verify no faults found.

YES

A3Y

1. Install harness 12349810 plug on harness 12349813 at carrier bulkhead.
2. Install harness 12349810 circuit 366 on trans oil low press switch.
3. Remove harness 12349881 circuit 366 plug (1) from stop light switch jack (2).
4. Is TRANS OIL LOW PRESS indicator still on?



NO

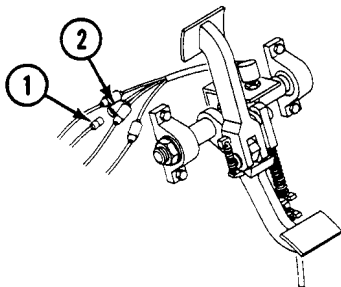
A3YN

1. Shorted harness 12349881 circuit 366. Beyond unit maintenance repair.
2. Notify supervisor.

YES

A4Y

1. Install harness 12349813 circuit 366 plug onto harness 12349881 circuit 366 jack.
2. Remove harness 12349881 circuit 366A plug (1) from stop light switch jack (2).
3. Is TRANS OIL LOW PRESS indicator still on?



NO

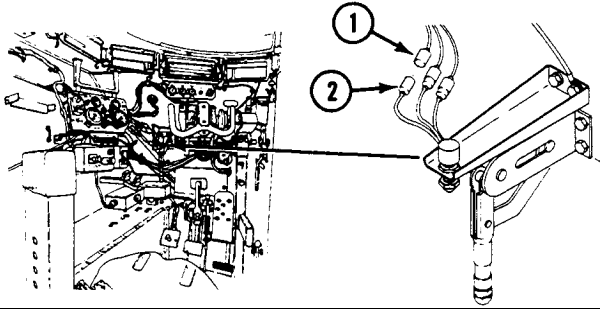
A4YN

1. Replace brake light switch (WP 0332 00).
2. Verify no faults found.

YES

A5Y

1. Install harness 12349881 circuit 366 plug on stop light switch circuit 366 jack.
2. Remove harness 12345881 circuit 366A plug (1) from parking brake switch 366A jack (2).
3. Is TRANS OIL LOW PRESS indicator still on?

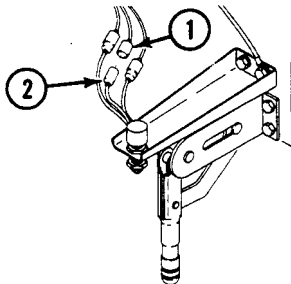


YES



A6Y

1. Install harness 12349881 circuit 366A on stop light switch 366A jack.
2. Remove harness 12349881 circuit 367 plug (1) from parking brake switch jack (2).
3. Is TRANS OIL LOW PRESS indicator still on?



YES



NO

A5YN

1. Faulty harness 12349881 circuit 366A. Beyond unit maintenance repair.
2. Notify supervisor.

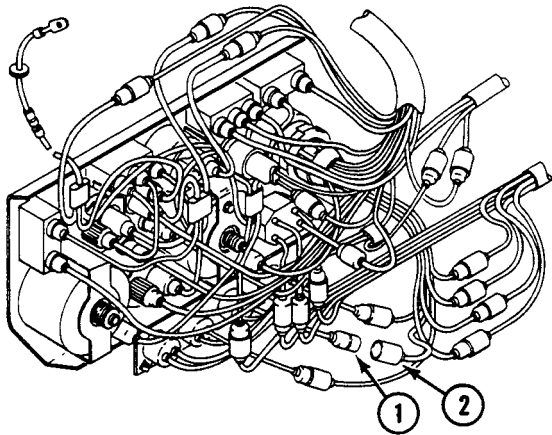
NO

A6YN

1. Replace parking brake switch (WP 0331 00).
2. Verify no faults found.

A7Y

1. Install harness 12349881 circuit 366A on stop light switch circuit 366 jack.
2. Remove harness 12349881 circuit 367 plug (1) from cable assembly 12349858 circuit 367 jack (2).
3. Is TRANS OIL LOW PRESS indicator still on?



NO

A7YN

1. Faulty harness 12349881 circuit 367. Beyond unit maintenance repair.
2. Notify supervisor.

YES

A8Y

1. Install harness 12349881 circuit 367 plug on parking brake switch circuit 366 jack.
2. Replace TRANS OIL LOW PRESS indicator assembly (WP 0287 00).
3. Verify no faults found.

BY

1. Remove TRANS OIL LOW PRESS lens, gasket, bulb, and gasket from indicator assembly.
2. Measure voltage between center contact on indicator assembly and ground.
3. Does multimeter read 17 volts or more?

NO

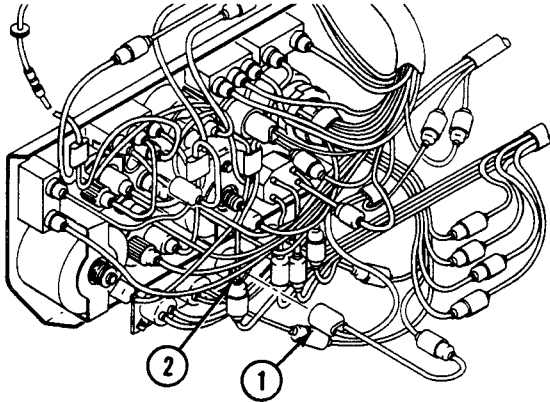
BYN

GO TO CY (PAGE 0056 00-9)

YES

B2Y

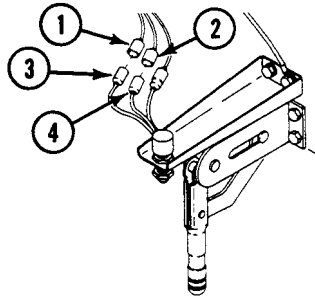
1. Remove cable assembly 12349858 circuit 367/27L plug (1) from TRANS OIL LOW PRESS indicator assembly (2).
2. Check continuity between cable assembly 12349858 circuit 367/27L plug (1) circuit 367 pin and ground.
3. Is there continuity?



YES

B3Y

1. Remove harness 12349881 circuits 367 plug (1) and 366A (2) plug from parking brake switch jacks (3) and (4).
2. Check continuity between parking brake switch jacks (3) and (4).
3. Is there continuity?



YES

B2YN

1. Remove jumper wire and install harness 12349881 circuit 366 plug on trans oil low press switch.
2. Replace TRANS OIL LOW PRESS indicator assembly (WP 0287 00).
3. Verify no faults found.

NO

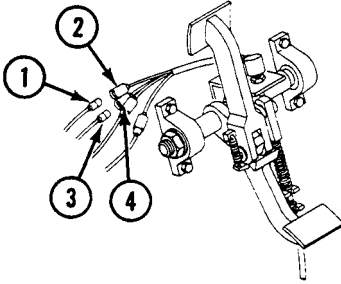
B3YN

1. Install harness 12349881 circuit 367/27L plug on TRANS OIL LOW PRESS indicator.
2. Remove jumper wire and install harness 12349881 circuit 366 plug on trans oil low press switch.
3. Replace parking brake switch (WP 0331 00).
4. Verify no faults found.

NO

B4Y

1. Remove harness 12349881 circuit 366A (1) and circuit 366 (2) from stop light switch circuit jack 366A (3) and jack 366 (4).
2. Check continuity between switch circuit jack 366A (3) and jack 366 (4).
3. Is there continuity?



NO

B4YN

1. Remove jumper and install harness 12349810 circuit 366 plug.
2. Install harness 12349881 circuit 367/27L, 366A and 367 plugs.
3. Replace stop light switch (WP 0331 00).
4. Verify no faults found.

YES

B5Y

1. Check continuity between harness 12349881 circuit 366 plug pin at stop light switch and ground.
2. Is there continuity?

NO

B5YN

GO TO DY (PAGE 0056 00-10)

YES

B6Y

1. Remove jumper wire and install harness 12349881 circuit 366 plug on trans oil low pressure switch.
2. Check continuity between harness 12349881 circuit 366A plug at brake switch and circuit 366A plug at parking brake light switch.
3. Is there continuity?

NO

B6YN

1. Faulty harness 12349881 circuit 366A. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B7Y

1. Check continuity between harness 12349881 circuit 367 plugs.
2. Is there continuity?

NO

B7YN

1. Install harness 12349881 circuit 366 plugs.
2. Faulty harness 12349881 circuit 367. Beyond unit maintenance repair.
3. Notify supervisor.

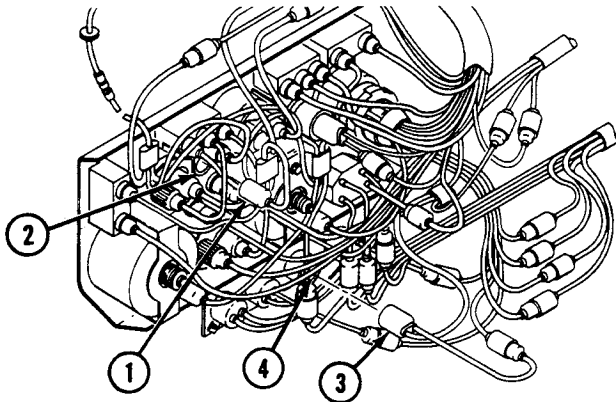
YES

B8Y

1. Install harness 12349881 circuit 367 plugs on switch and cable assembly 12345898.
2. Replace TRANS OIL LOW PRESS indicator assembly (WP 0287 00).
3. Verify no faults found.

CY

1. Remove jumper wire and install harness 12349810 on trans oil low press switch.
2. Remove instrument panel for access (WP 0295 00).
3. Remove cable assembly 12349858 circuit 27 plug (1) from circuit beaker (2).
4. Remove harness 12349858 circuit 367/27L plug (3) from TRANS OIL LOW PRESS indicator jack (4).
5. Check continuity between harness 12349858 circuit 27 plug (1) and circuit 367/27L plug (3) circuit 27L pin.
6. Is there continuity?



YES

C2Y

1. Install special purpose cable 12349858 on circuit breaker.
2. Replace TRANS OIL LOW PRESS indicator (WP 0287 00).
3. Verify no faults found.

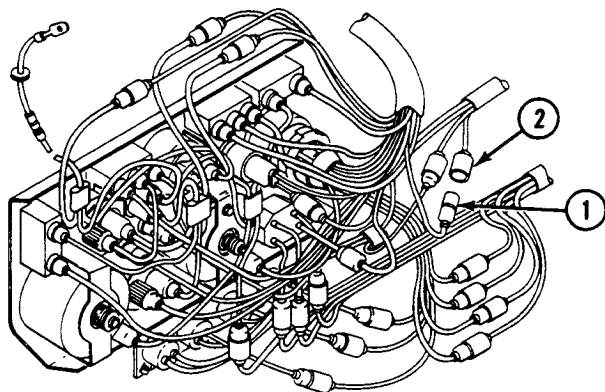
NO

CYN

1. Install gasket, bulb, gasket, cover lens on TRANS OIL LOW PRESS indicator assembly.
2. Replace special purpose cable 12349858 circuit 27L (WP 0290 00).
3. Verify no faults found.

DY

1. Install harness 12349881 circuit 366A plugs on brake switches and 367/27L plug on indicator assembly.
2. Remove harness 12349813 circuit 366 plug (1) from harness 12349881 circuit 366 jack (2) behind instrument panel.
3. Check continuity between harness 12349813 circuit 366 plug (1) and ground.
4. Is there continuity?



NO

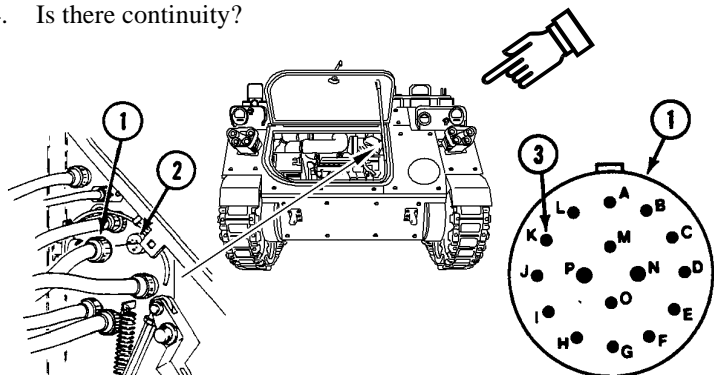
DYN

1. Remove jumper wire and install harness 12349810 on switch.
2. Faulty harness 12349881 circuit 366. Beyond unit maintenance repair.
3. Notify supervisor.

YES

D2Y

1. Install harness 12349881 circuit 366 plug on stop light switch circuit 366 jack.
2. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
3. Check continuity between harness 12349810 plug (1) pin K (3) and ground.
4. Is there continuity?



NO

D2YN

1. Install harness 12349813 circuit 366 plug on harness 12349881 circuit 366 jack behind instrument panel.
2. Replace harness 12349810 circuit 366 (WP 0361 00).
3. Verify no faults found.

YES

D3Y

1. Remove jumper wire and install harness 12349810 circuit 366 plug on trans oil low press switch.
2. Replace harness 12349813 circuit 366 (WP 0360 00).
3. Verify no faults found.

TRANS OIL HI TEMP INDICATOR MALFUNCTIONS

0057 00

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Engine and transmission cooled down

Driver's power plant access panel removed
(WP 0441 00)

Power plant rear access panels removed (WP 0439 00)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Jumper Wire

Multimeter (WP 0926 00, Item 30)

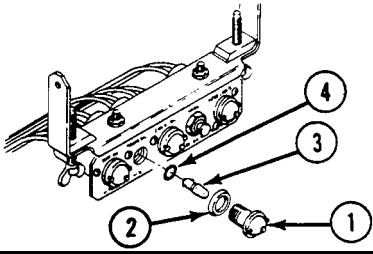
Personnel Required

Mechanic

Helper (H)

T

1. Remove TRANS OIL HI TEMP indicator cover lens (1), gasket (2), bulb (3), and gasket (4).
2. Check continuity between bulb center contact and bulb base.
3. Does multimeter indicate continuity?



YES



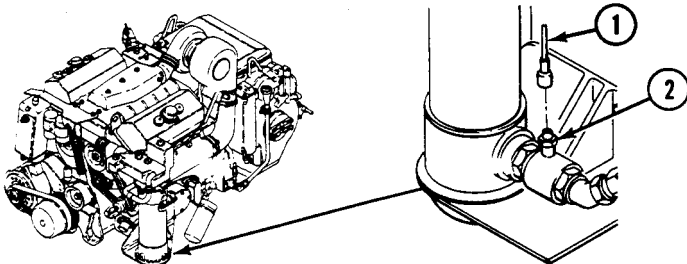
NO

TN

1. Replace TRANS OIL HI TEMP indicator bulb (WP 0294 00).
2. Verify no faults found.

Y

1. Install TRANS OIL HI TEMP indicator cover lens bulb and gaskets.
2. Remove harness 12349873 circuit 327 plug (1) from trans oil hi temp switch (2).
3. Turn MASTER SWITCH to ON.
4. Is TRANS OIL HI TEMP indicator off?



NO

YN

GO TO AY (PAGE 0057 00-3)

YES

2Y

1. Install jumper wire between harness 12349873 circuit 327 plug and ground.
2. Is TRANS OIL HI TEMP indicator on?

NO

2YN

GO TO BY (PAGE 0057 00-4)

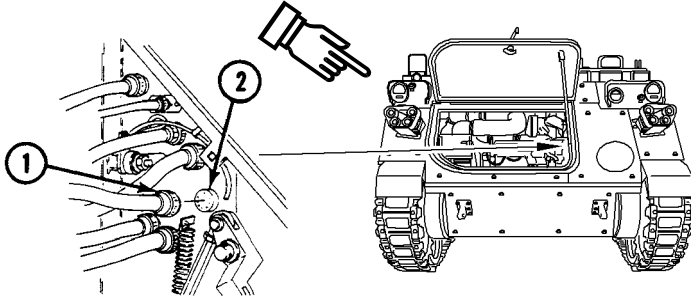
YES

3Y

1. Remove jumper wire.
2. Replace trans oil hi temp switch (WP 0322 00).
3. Verify no faults found.

AY

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Is TRANS OIL HI TEMP indicator still on?



NO

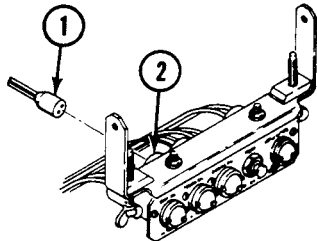
AYN

1. Replace harness 12349873 (WP 0359 00).
2. Verify no faults found.

YES

A2Y

1. Turn MASTER SWITCH to OFF.
2. Remove harness 12349881 circuit 327/27G plug (1) from TRANS OIL HI TEMP indicator (2).
3. Measure resistance between harness 12349881 circuit 327/27G plug (1) circuit 327 pin and ground.
4. Does multimeter read 0 ohms?



NO

A2YN

1. Replace TRANS OIL HI TEMP indicator assembly (WP 0294 00).
2. Verify no faults found.

YES

A3Y

1. Shorted harness 12349881 circuit 327. Beyond unit maintenance repair.
2. Notify supervisor.

BY

1. Remove TRANS OIL HI TEMP indicator cover lens, gasket, bulb, and gasket.
2. Measure voltage between assembly center contact and ground.
3. Does multimeter read less than 17 volts?

NO → **BYN**

GO TO CY (PAGE 0057 00-5)

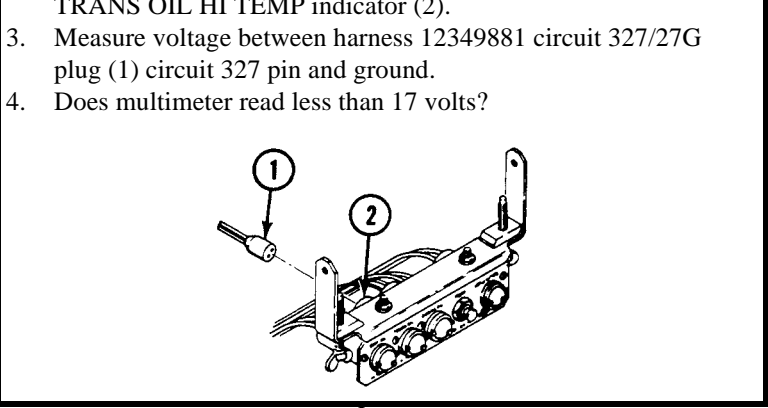
YES

B2Y

1. Remove jumper wire and install harness 12349873 circuit 327 plug on trans oil hi temp switch.
2. Remove harness 12349881 circuit 327/27G plug (1) from TRANS OIL HI TEMP indicator (2).
3. Measure voltage between harness 12349881 circuit 327/27G plug (1) circuit 327 pin and ground.
4. Does multimeter read less than 17 volts?

NO → **B2YN**

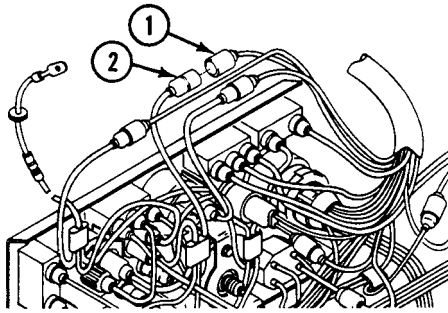
1. Replace TRANS OIL HI TEMP indicator assembly (WP 0294 00).
2. Verify no faults found.



YES

B3Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 circuit 27F plug (1) from cable assembly 12349858 circuit 27F jack (2).
4. Measure resistance between harness 12349881 circuit 27F plug (1) and circuit 27G pin on circuit 327/27G plug.
5. Does multimeter read 0 ohms?



NO

B3YN

1. Faulty harness 12349881 circuit 27G/27F. Beyond unit maintenance repair.
2. Notify supervisor.

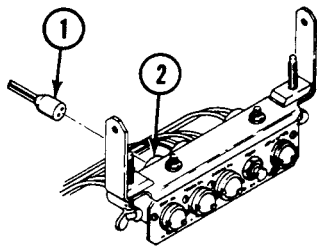
YES

B4Y

1. Install harness 12349881 circuit 327/27G plug on TRANS OIL HI TEMP indicator jack.
2. Repair special purpose cable 12349858 circuit 27F (WP 0382 00).
3. Verify no faults found.

CY

1. Turn MASTER SWITCH to OFF.
2. Remove harness 12349881 circuit 327/27G plug (1) from TRANS OIL HI TEMP indicator (2).
3. Measure resistance between harness 12349881 circuit 327/27G plug (1) circuit 327 pin and ground.
4. Does multimeter read more than 0 ohms?



NO

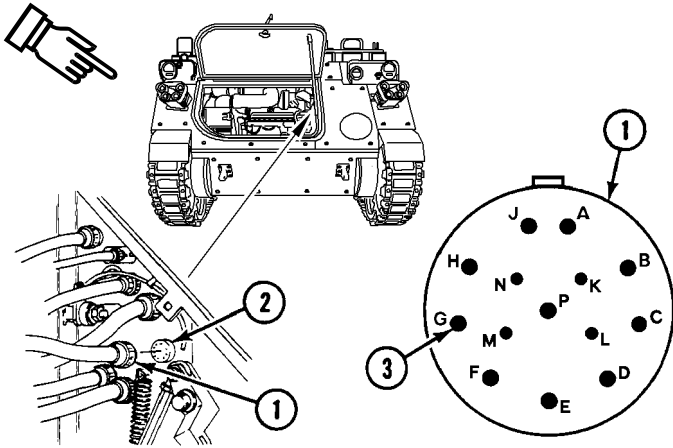
CYN

1. Remove jumper cable and install harness 12349873 plug on trans hi oil temp switch.
2. Replace TRANS OIL HI TEMP indicator assembly (WP 0294 00).
3. Verify no faults found.

YES

C2Y

1. Install TRANS OIL HI TEMP indicator cover lens, gasket, bulb, and gasket.
2. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
3. Measure resistance between harness 12349873 plug (1) pin G (3) and ground.
4. Does multimeter read more than 0 ohms?



NO

C2YN

1. Remove jumper wire and install harness 12349873 circuit 327 plug on trans oil hi temp switch.
2. Faulty harness 12349881 circuit 327. Beyond unit maintenance repair.
3. Notify supervisor.

YES

C3Y

1. Install harness 12349881 circuit 327/27G plug on trans oil hi temp indicator.
2. Repair harness 12349873 circuit 327 (WP 0382 00).
3. Verify no faults found.

ENGINE COOLANT LOW LEVEL INDICATOR MALFUNCTIONS

0058 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Jumper Wire

Equipment Condition

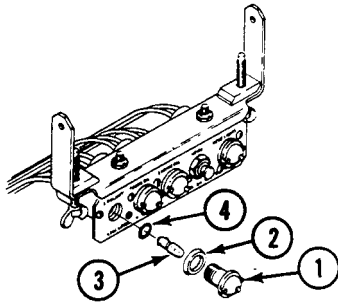
Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

T

1. Remove ENGINE COOLANT LOW LEVEL indicator cover (1), gasket (2), and bulb (3), and gasket (4).
2. Check continuity between bulb center contact and bulb base.
3. Does multimeter indicate continuity?



YES



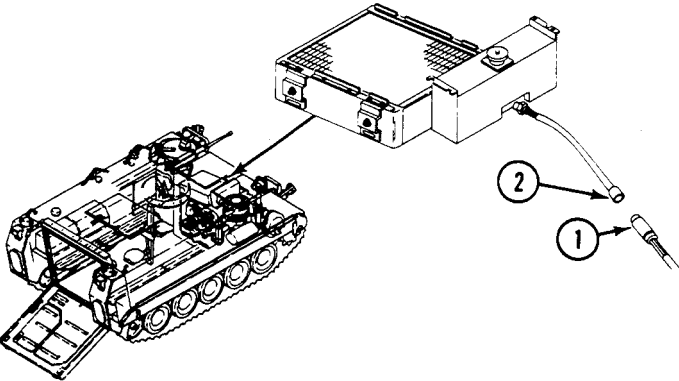
NO

TN

1. Replace ENGINE COOLANT LOW LEVEL indicator bulb (WP 0294 00).
2. Verify no faults found.

Y

1. Install ENGINE COOLANT LOW LEVEL indicator cover, bulb and gaskets.
2. Remove harness 12349873 plug (1) from coolant level detector jack (2).
3. Turn MASTER SWITCH to ON.
4. Is ENGINE COOLANT LOW LEVEL indicator off?



NO → **YN**
GO TO AY (PAGE 0058 00-3)

YES

2Y

1. Install jumper wire between harness 12349873 plug pin B and ground.
2. Is ENGINE COOLANT LOW LEVEL indicator on?

NO → **2YN**
GO TO BY (PAGE 0058 00-4)

YES

3Y

1. Remove jumper wire.
2. Measure voltage between harness 12349873 plug pin A and ground.
3. Does multimeter read 17 volts or more?

NO → **3YN**
GO TO CY (PAGE 0058 00-5)

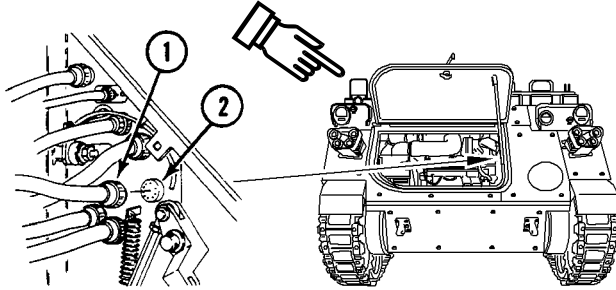
YES

4Y

1. Replace auxiliary tank fluid level detector (WP 0329 00).
2. Verify no faults found.

AY

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Is ENGINE COOLANT LOW LEVEL indicator still on?



NO

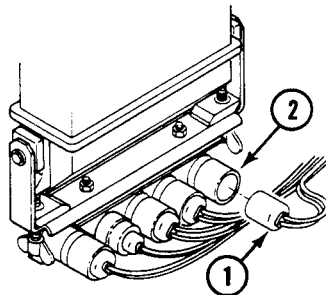
AYN

1. Shorted harness 12349873. Beyond unit maintenance repair.
2. Notify supervisor.

YES

A2Y

1. Turn MASTER SWITCH to OFF.
2. Remove harness 12349881 circuit 352/27K (1) from backside of ENGINE COOLANT LOW LEVEL indicator jack (2).
3. Measure resistance between harness 12349881 plug circuit 352 pin and ground.
4. Does multimeter read infinity?



NO

A2YN

1. Install harness 12349873 plug on coolant level detector.
2. Shorted harness 12349881 circuit 352. Beyond unit maintenance repair.
3. Notify supervisor.

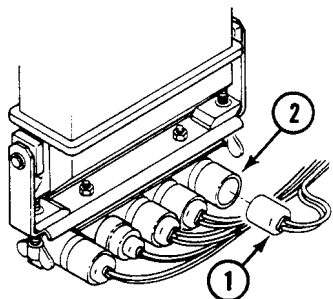
YES

A3Y

1. Replace ENGINE COOLANT LOW LEVEL indicator assembly (WP 0294 00).
2. Verify no faults found.

BY

1. Remove harness 12349881 circuit 352/27K (1) from ENGINE COOLANT LOW LEVEL indicator (2).
2. Measure voltage between harness 12349881 plug (1) circuit 27K pin and ground.
3. Does multimeter read less than 17 volts?



NO

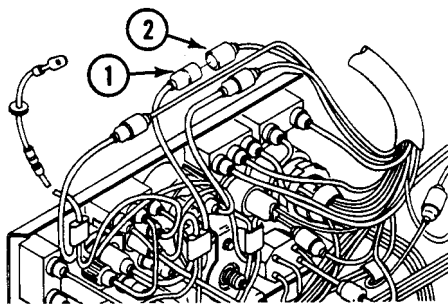
BYN

1. Remove jumper wire and install harness 12349873 plug on coolant level detector.
2. Replace ENGINE COOLANT LOW LEVEL indicator assembly (WP 0294 00).
3. Verify no faults found.

YES

B2Y

1. Turn MASTER SWITCH to OFF.
2. Remove instrument panel for access (WP 0295 00).
3. Remove harness 12349881 circuit 27F plug (1) from cable assembly 12349858 circuit 27F jack (2).
4. Measure resistance between harness 12349881 circuit 27K plug and circuit 27F plug (1).
5. Does multimeter read 0 ohms?



NO

B2YN

1. Faulty harness 12349881 circuit 27K. Beyond unit maintenance repair.
2. Notify supervisor.

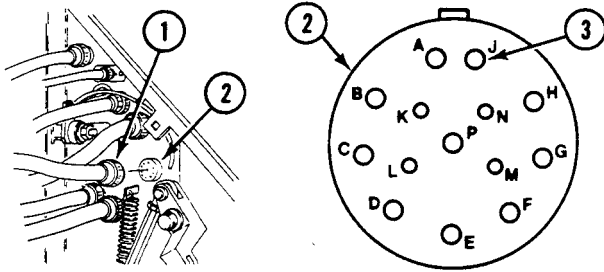
YES

B3Y

1. Install harness 12349881 circuit 352/27K plug on ENGINE COOLANT LOW LEVEL indicator.
2. Replace cable assembly 12349858 circuit 27F (WP 0290 00).
3. Verify no faults found.

CY

1. Remove harness 12349873 plug (1) from harness 12349881 jack (2) at carrier bulkhead.
2. Measure voltage between harness 12349881 jack (2) pin J (3) and ground.
3. Does multimeter read less than 17 volts?



NO

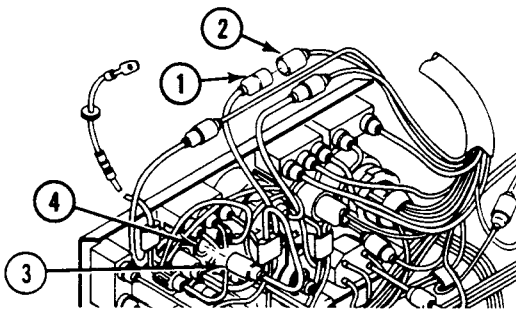
CYN

1. Replace harness 12349873 circuit 27N (WP 0359 00).
2. Verify no faults found.

YES

C2Y

1. Turn MASTER SWITCH to OFF.
2. Install harness 12349873 plug on coolant level detector.
3. Remove instrument panel for access (WP 0295 00).
4. Remove harness 12349881 circuit 27F plug (1) from cable assembly 12349858 circuit 27F jack (2).
5. Remove cable assembly 12349858 circuit 27 plug (3) from instrument panel circuit breaker (4).
6. Measure resistance between cable assembly 12349858 circuit 27 plug (3) and circuit 27F plug (1).
7. Does multimeter read 0 ohms?



NO

C2YN

1. Install harness 12349873 plug on harness 12349881 jack on carrier bulkhead.
2. Replace cable assembly 12349858 circuit 27/27F (WP 0290 00).
3. Verify no faults found.

YES

C3Y

1. Faulty harness 12349881 circuit 27N. Beyond unit maintenance repair.
2. Notify supervisor.

TRANS FILTER CLOGGED INDICATOR MALFUNCTIONS

0059 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

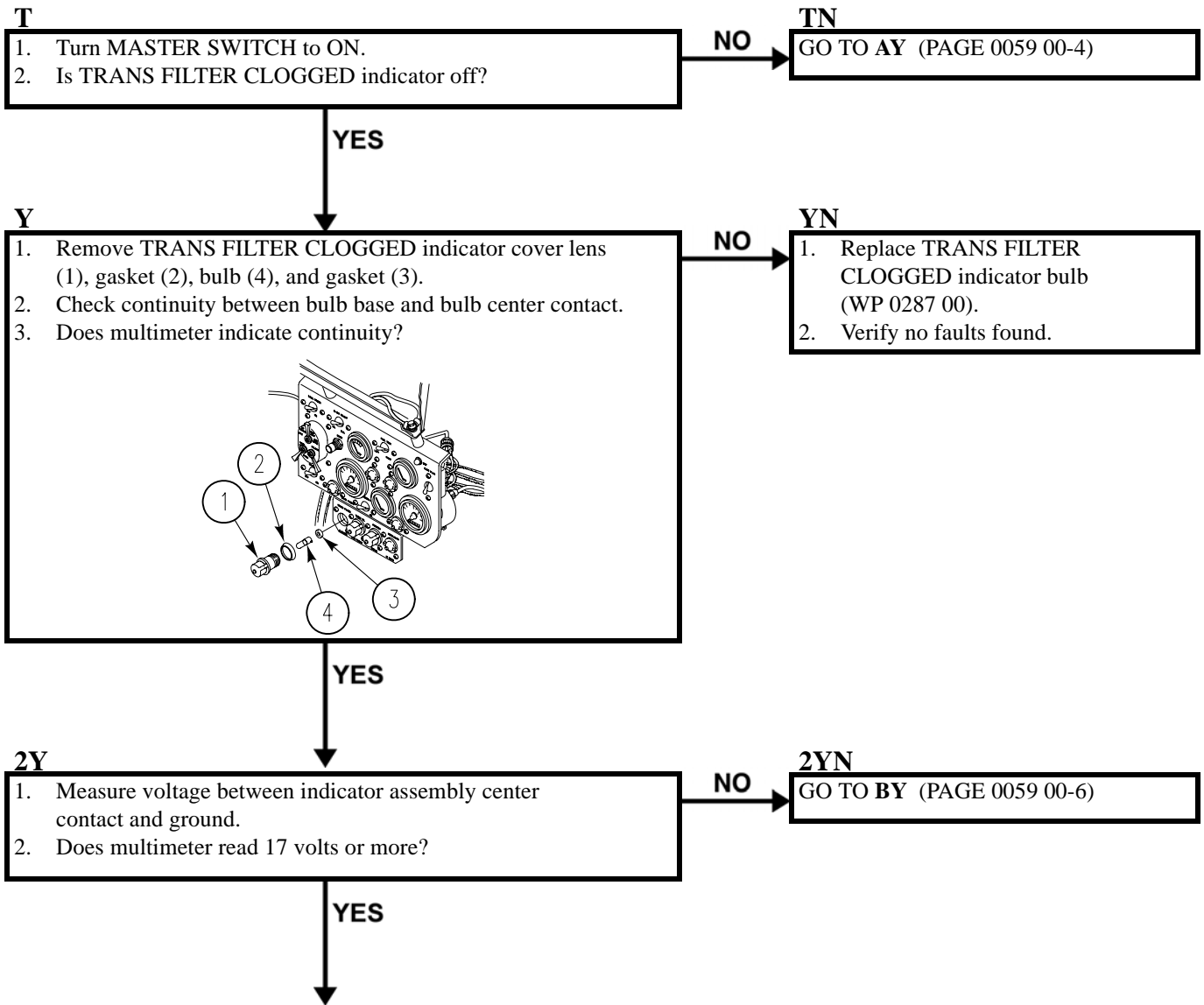
Jumper Wire

Equipment Condition

Engine stopped (TM 9-2350-277-10)

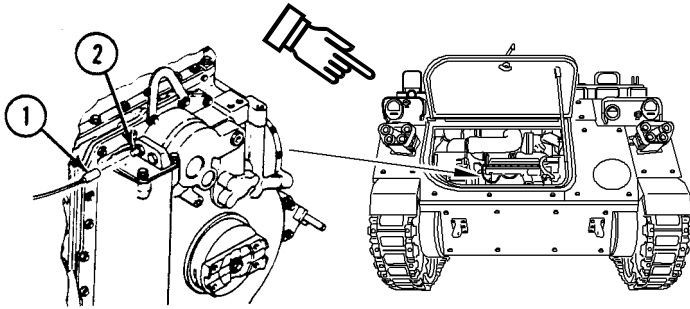
Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)



3Y

1. Install TRANS FILTER CLOGGED indicator cover lens, bulb and gaskets.
2. Remove harness 12349810 plug (1) from pressure differential switch (2).
3. Install jumper wire between harness 12349810 plug (1) pin B and ground.
4. Is TRANS FILTER CLOGGED indicator off?



NO

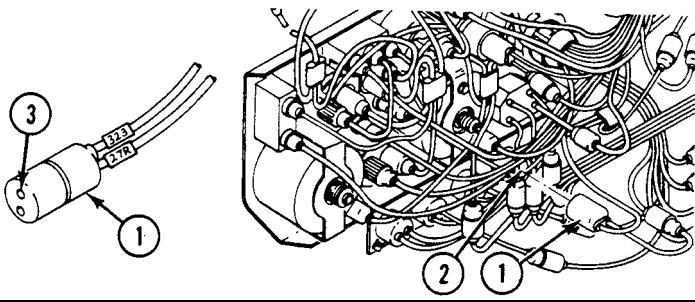
3YN

1. Turn MASTER SWITCH to OFF.
2. Replace differential pressure switch (WP 0401 00).
3. Verify no faults found.

YES

4Y

1. Turn MASTER SWITCH to OFF.
2. Remove cable assembly 12349858 circuit 323/27R plug (1) from TRANS FILTER CLOGGED indicator jack (2).
3. Measure resistance between harness 12349858 circuit 323/27R plug (1) circuit 323 pin (3) and ground.
4. Does multimeter read more than 0 ohms?



NO

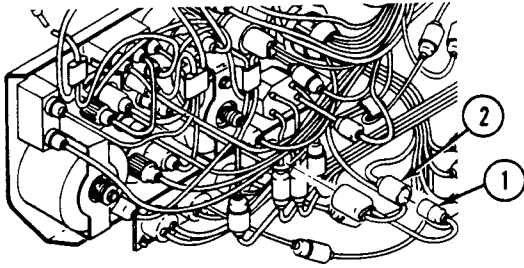
4YN

1. Remove jumper wire and install harness 12349810 plug on pressure differential switch jack.
2. Replace TRANS FILTER CLOGGED indicator assembly (WP 0287 00).
3. Verify no faults found.

YES

5Y

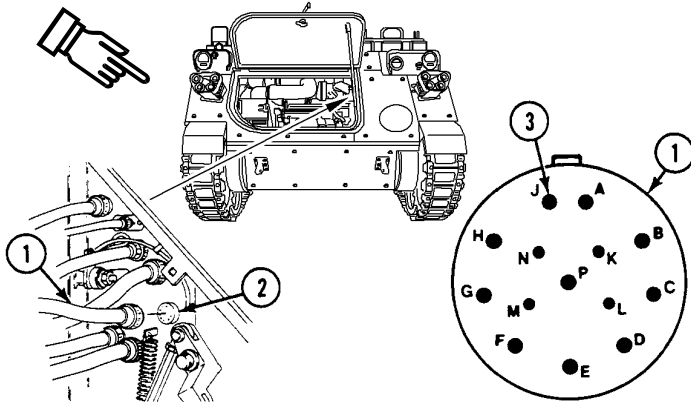
1. Remove harness 12349813 circuit 323 plug (1) from cable assembly 12349858 circuit 323 jack (2).
2. Measure resistance between harness 12349813 circuit 323 plug pin (1) and ground.
3. Does multimeter read more than 0 ohms?



YES

6Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure resistance between harness 12349810 plug (1) pin J (3) and ground.
3. Does multimeter read 0 ohms?



YES

5YN

1. Remove jumper wire and install harness 12349813 plug on pressure differential switch jack.
2. Replace cable assembly 12349858 circuit 323 (WP 0290 00).
3. Verify no faults found.

6YN

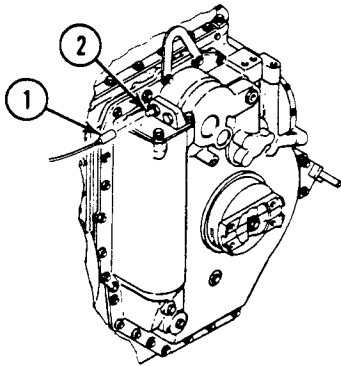
1. Install harness 12349813 circuit 323/27R plug on TRANS FILTER CLOGGED indicator jack.
2. Install harness 12349813 circuit 323 plug on cable assembly 12349858 circuit 323 jack.
3. Remove jumper wire and replace harness 12349810 circuit 323 (WP 0360 00).
4. Verify no faults found.

7Y

1. Remove jumper wire and install harness 12349810 plug on pressure differential switch.
2. Replace harness 12349813 circuit 323 (WP 0361 00).
3. Verify no faults found.

AY

1. Remove harness 12349810 plug (1) from pressure differential switch (2).
2. Is TRANS FILTER CLOGGED indicator still on?



NO

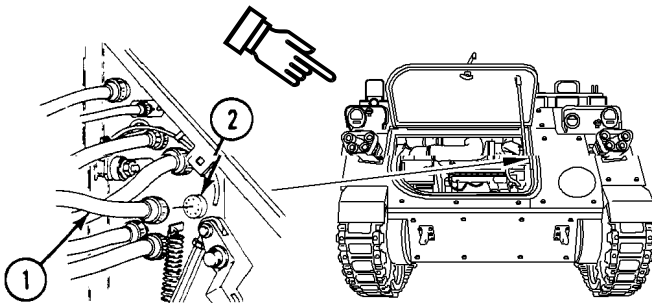
AYN

1. Turn MASTER SWITCH to OFF.
2. Replace differential pressure switch (WP 0401 00).
3. Verify no faults found.

YES

A2Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Is TRANS FILTER CLOGGED indicator still on?



NO

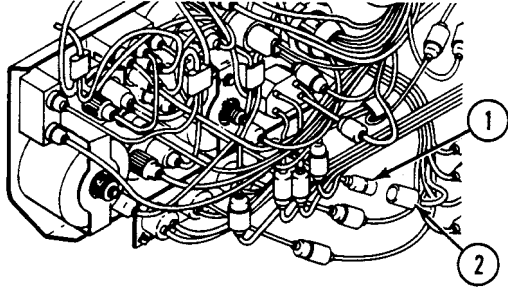
A2YN

1. Turn MASTER SWITCH to OFF.
2. Replace harness 12349810 (WP 0360 00).
3. Verify no faults found.

YES

A3Y

1. Install harness 12349810 circuit 323 plug on pressure differential switch.
2. Remove harness 12349813 circuit 323 plug (1) from cable assembly 12349858 circuit 323 jack (2) behind indicator assembly.
3. Is TRANS FILTER CLOGGED indicator still on?



NO

A3YN

1. Turn MASTER SWITCH to OFF.
2. Replace harness 12349813 (WP 0361 00).
3. Verify no faults found.

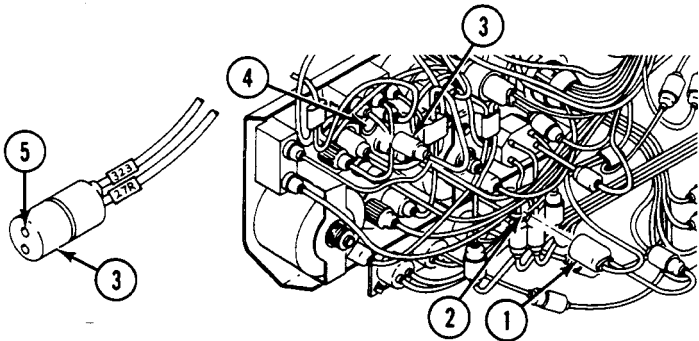
YES

A4Y

1. Turn MASTER SWITCH to OFF.
2. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
3. Install harness 12349813 circuit 323 plug on cable assembly 12349858 circuit 323 jack behind instrument panel.
4. Replace TRANS FILTER CLOGGED indicator assembly (WP 0287 00).
5. Verify no faults found.

BY

1. Remove instrument panel for access (WP 0295 00).
2. Remove plug (1) from TRANS FILTER CLOGGED indicator jack (2).
3. Remove circuit 27 plug (3) from circuit breaker jack (4).
4. Measure resistance between filter clogged indicator plug (1) circuit 27R (5) pin and circuit breaker plug (3) circuit 27 plug pin (3).
5. Does multimeter read 0 ohms?



NO

BYN

1. Replace cable assembly 12349858 circuit 27R (WP 0290 00).
2. Verify no faults found.

YES

B2Y

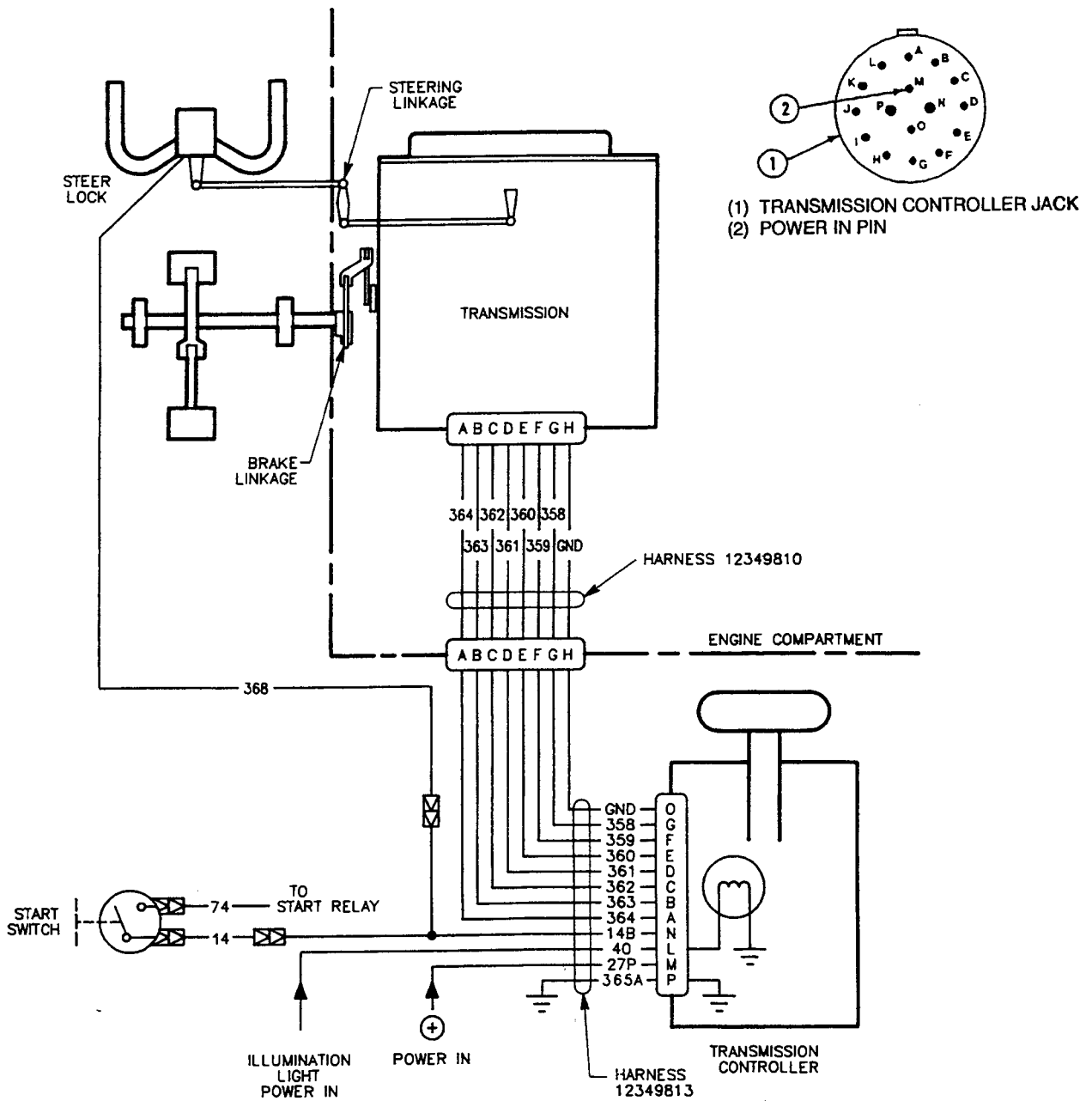
1. Replace TRANS FILTER CLOGGED indicator assembly (WP 0287 00).
2. Verify no faults found.

TRANSMISSION SYSTEM SCHEMATIC

0060 00

TRANSMISSION CONTROLLER SWITCH
PIN TO PIN CONTINUITY CHECK

RANGES> PINS	SL	R	PV	1-4	1-3	1-2	
A	Off	Off	Off	On	On	On	On
B	On	On	On	Off	Off	Off	Off
C	Off	On	Off	On	On	On	On
D	On	Off	On	Off	Off	Off	Off
E	On	On	On	Off	On	On	On
F	Off	Off	Off	Off	On	Off	Off
G	Off	Off	Off	Off	On	On	Off
N	On	Off	Off	Off	Off	Off	Off



CARRIER MOVES WITH TRANSMISSION IN SL

0061 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

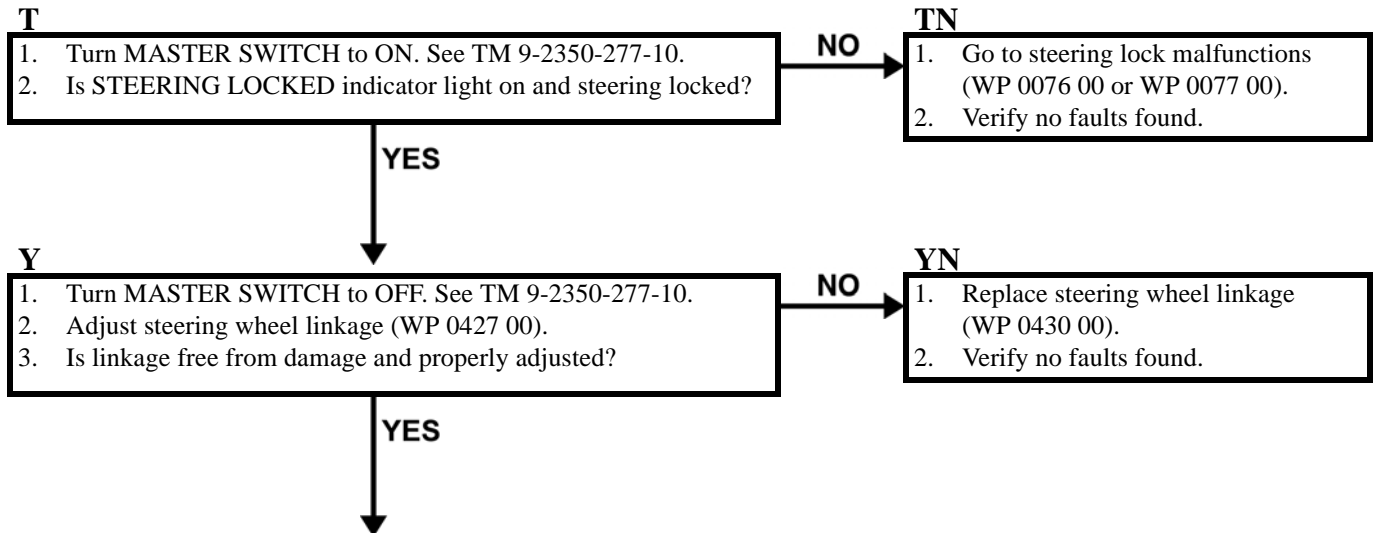
- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Transmission in SL position
- Power plant access door open (TM 9-2350-277-10)

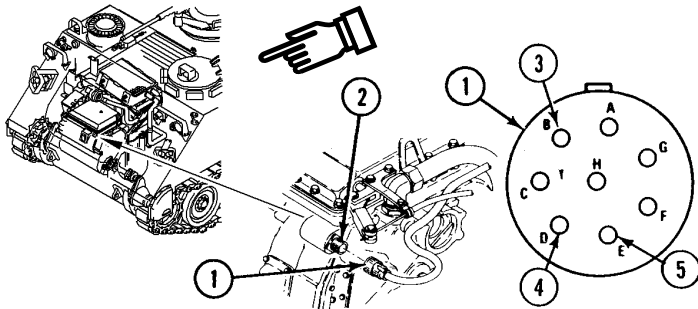
Personnel Required

- Mechanic
- Helper (H)



2Y

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
3. Measure voltage between each socket on harness 12349810 plug (1) and ground. Multimeter should read 18 volts or more at sockets B (3), D (4), and E (5), and 0 volts for all remaining socket checks.
4. Does multimeter read less than 18 volts for sockets B, D, and E, and does not read 0 volts for all other sockets?



NO

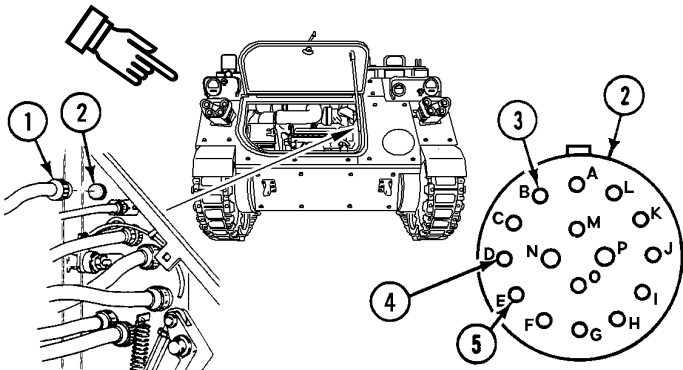
2YN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure voltage between each socket on harness 12349813 jack (2) and ground. Multimeter should read 18 volts or more for sockets B (3), D (4), and E (5), and 0 volts for the remaining socket checks.
3. Does multimeter read less than 18 volts for sockets B, D, and E, and does not read 0 volts for all other sockets?



NO

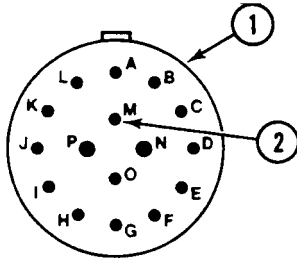
3YN

1. Faulty transmission control wiring harness 12349810. Beyond unit maintenance repair.
2. Notify supervisor.

YES

4Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Install harness 12349810 plug on transmission jack.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Measure resistance between transmission controller jack (1) pin M (2) and pins A thru G.
5. Does multimeter read more than 0 ohms for pins B, D, and E, and/or continuity for all remaining pins?



NO

4YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty transmission wiring harness 12349813. Beyond unit maintenance repair.
3. Notify supervisor.

YES

5Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller (WP 0386 00 or WP 0387 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

CARRIER DOES NOT ATTAIN HIGH SPEED

0061 01

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Pressure Gauge Kit (WP 0926 00, Item 35)

Equipment Condition

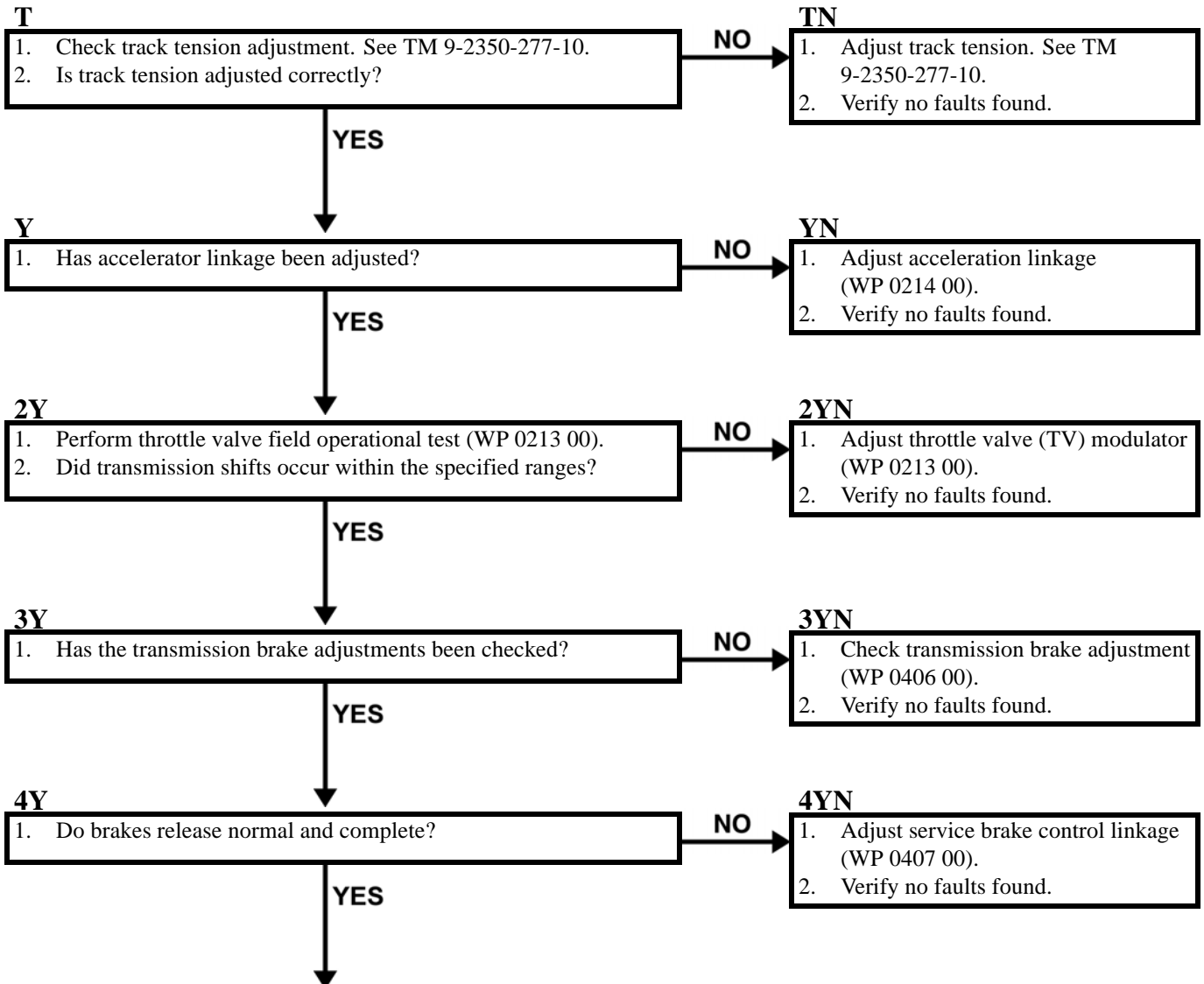
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Driver's power plant access panel removed (TM 9-2350-277-10)

Materials/Parts

Rag, wiping (WP 0928 00, Item 65)

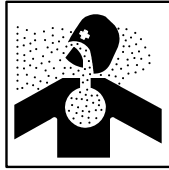
Personnel Required

Mechanic



5Y

WARNING

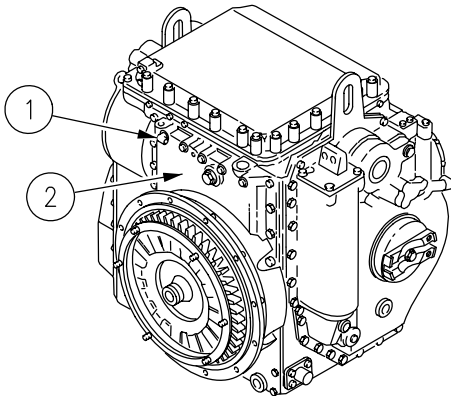


Perform test outdoors or in a well ventilated area to avoid illness or death caused by inhalation of carbon monoxide from the engine exhaust.

CAUTION

Use extreme care when making pressure checks with vehicle in motion. Watch for pivot steer.

1. If carrier is blocked unblock carrier. See TM 9-2350-277-10.
2. Remove 9/16 in. hex plug from the LOCKUP (LU) pressure test port (1) in the transmission input housing (2).
3. Install pressure gauge and adapters in the LOCKUP (LU) pressure test port (1) in the transmission input housing (2).
4. Check lockup pressure while operating vehicle on level, flat terrain with engine at 2500 RPM and shift lever at 1-4 position. Lockup pressure must be 140-160 (965-1103 kPa).
5. Is lockup pressure within the specified limits?



NO

5YN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

YES

6Y

1. Does original symptom still exist?

NO

6YN

1. If no faults found return carrier to service.

YES

7Y

- | |
|--|
| <ol style="list-style-type: none">1. Faulty transmission. Beyond unit maintenance repair. Notify supervisor. |
|--|

CARRIER DOES NOT MOVE IN ANY SHIFT LEVER POSITION

0062 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition


- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Transmission oil level normal

Personnel Required

Mechanic

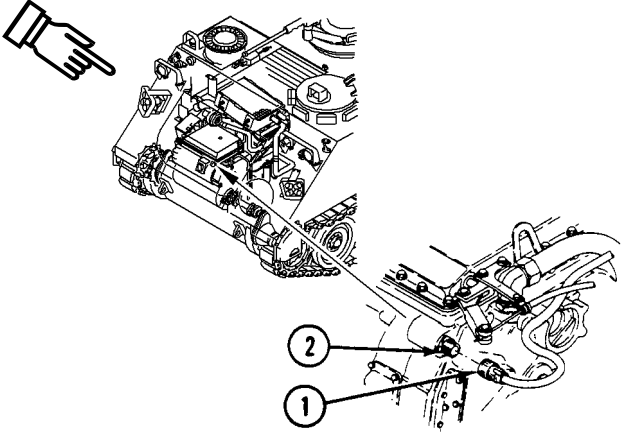
T

WARNING



Carrier may move forward. Personnel may be injured or killed. Keep personnel away from front of carrier.

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Pull TOW START cable and LOCK ON. See TM 9-2350-277-10.
3. Start engine. See TM 9-2350-277-10.
4. Release TOW START cable.
5. Release parking brake.
6. Apply throttle.
7. Does carrier move forward?



NO

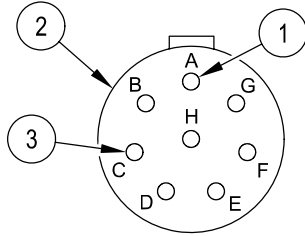
TN

GO TO AY (PAGE 0062 00-3)

YES

Y

1. Stop engine. See TM 9-2350-277-10.
2. Place transmission controller in 1-4 position.
3. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
4. Measure voltage between each socket on harness 12349810 plug (2) and ground.
5. Does multimeter read less than 18 volts at sockets A (1) or C (3), or more than 0 volts at any remaining sockets?



NO

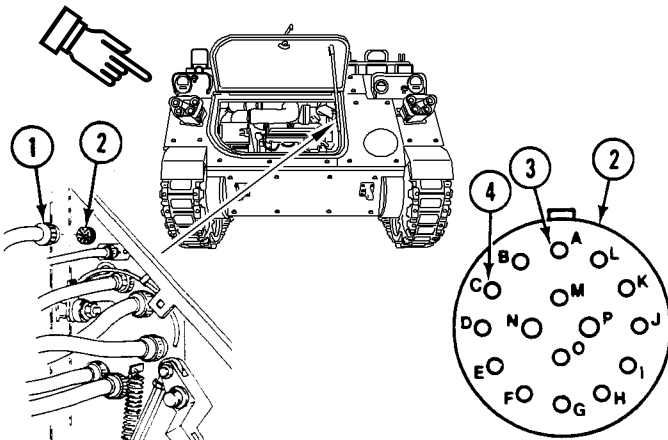
YN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
3. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
4. Measure voltage between each socket on harness 12349813 jack (2) and ground.
5. Does multimeter read less than 18 volts at sockets A (3) or C (4), or more than 0 volts at any remaining sockets?



NO

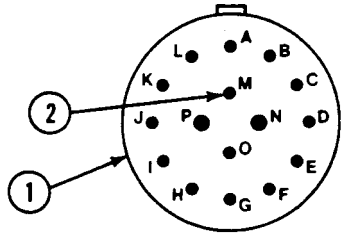
2YN

1. Faulty transmission control wiring harness 12349810. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Remove transmission controller (WP 0386 00 or WP 0387 00).
3. Measure resistance between transmission controller jack (1) pin M (2) and pins A thru G.
4. Does multimeter read more than 0 ohms for pins A and C, and less than infinity for all remaining pins?



NO

3YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty transmission wiring harness 12349813. Beyond unit maintenance repair.
3. Notify supervisor.

YES

4Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller switch (WP 0389 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

AY

1. Stop engine. See TM 9-2350-277-10.
2. Check brake linkage and brake adjustment (WP 0406 00 and WP 0407 00).
3. Is brake linkage free from damage and brakes properly adjusted?

NO

AYN

1. Repair linkage and/or adjust brakes (WP 0410 00 or WP 0394 00).
2. Verify no faults found.

YES

A2Y

1. Disconnect track. See TM 9-2350-277-10.
2. Disconnect propeller shaft (WP 0405 00).
3. Does final drive/sprocket turn?

NO

A2YN

1. Replace faulty final drive (WP 0403 00).
2. Verify no faults found.

YES

A3Y

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

CARRIER DRIFTS OR DOES NOT STEER

0063 00

INITIAL SETUP:

Maintenance Level

Unit

References

WP 0427 00

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

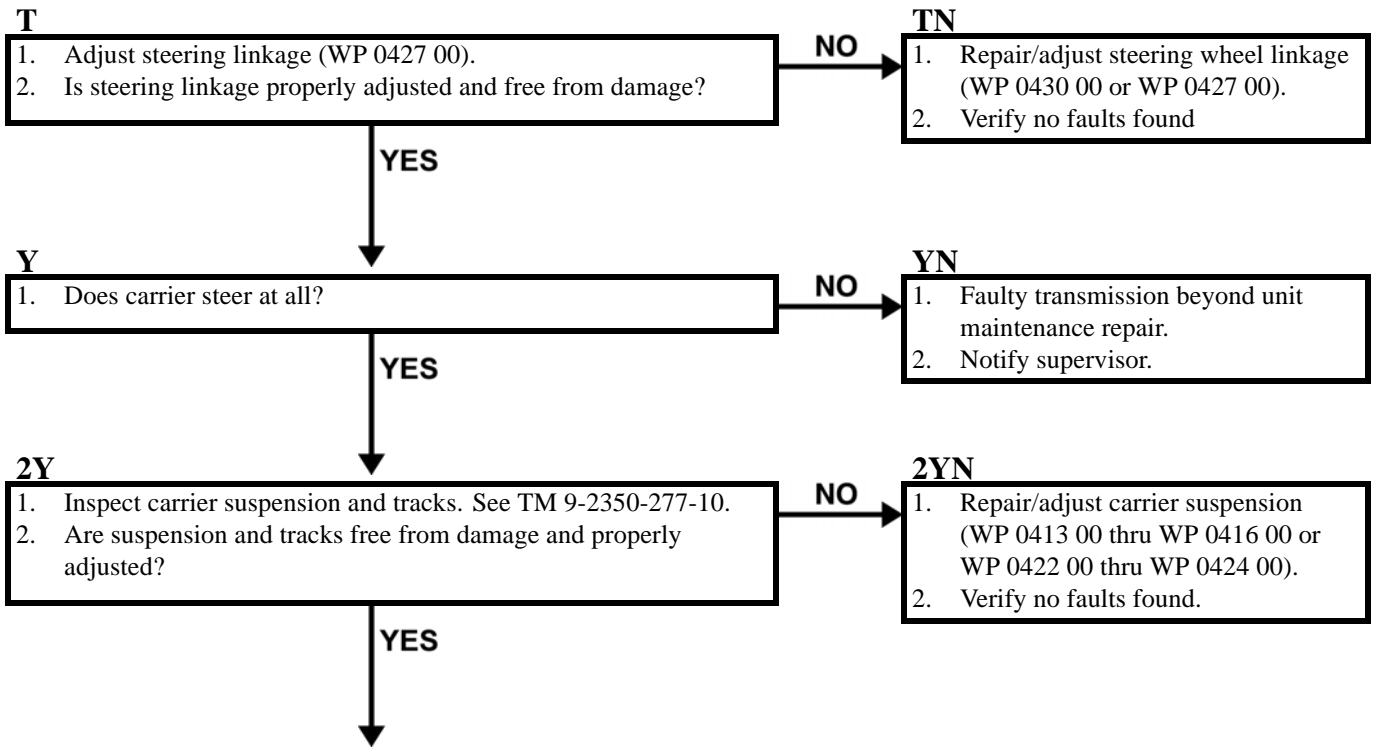
Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Personnel Required

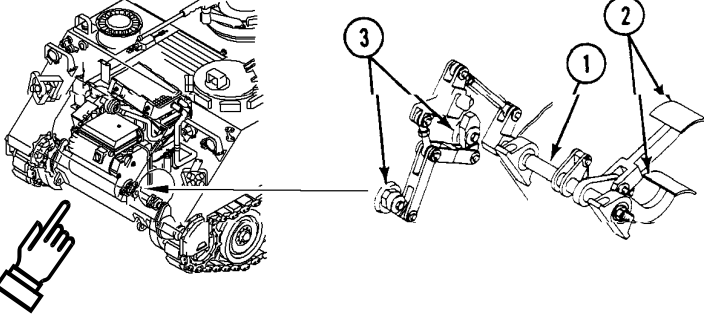
Mechanic

Helper (H)



3Y

1. Check operation of service brake linkage (1) between brake pedal (2) and transmission (3).
2. Is linkage free from obstruction, binding, and damage?



The diagram shows a side view of a vehicle's rear end with the service brake linkage system highlighted. A hand icon points to the rear wheel area. Three callouts are present: '1' points to the brake pedal linkage, '2' points to the brake pedal, and '3' points to the transmission linkage. The linkage consists of several rods and joints connecting the pedal to the transmission.

NO

3YN

1. Replace/adjust service brakes control linkage (WP 0410 00 or WP 0407 00).
2. Verify no faults found.

YES

4Y

1. Has steering been adjusted?

NO

4YN

1. Adjust steering (WP 0393 00).
2. Verify no faults found.

YES

5Y

1. Check transmission brake adjustment (WP 0406 00).
2. Did brakes require adjustment?

NO

5YN

1. Faulty transmission brakes beyond unit maintenance repair.
2. Notify supervisor.

YES

6Y

1. Adjust service brake control linkage (WP 0407 00).
2. Verify no faults found.

SERVICE AND/OR PARKING BRAKE WON'T HOLD CARRIER

0064 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

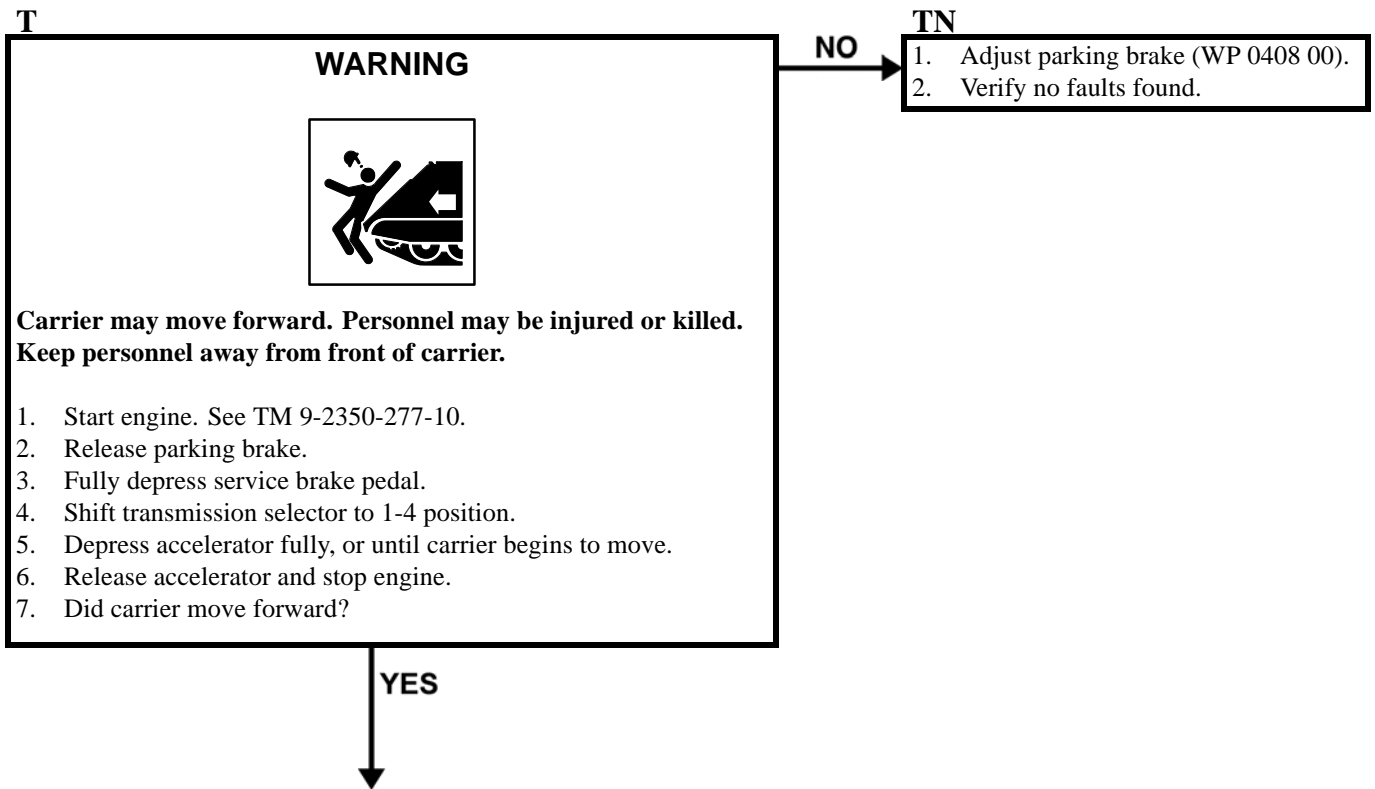
Engine stopped (TM 9-2350-277-10)

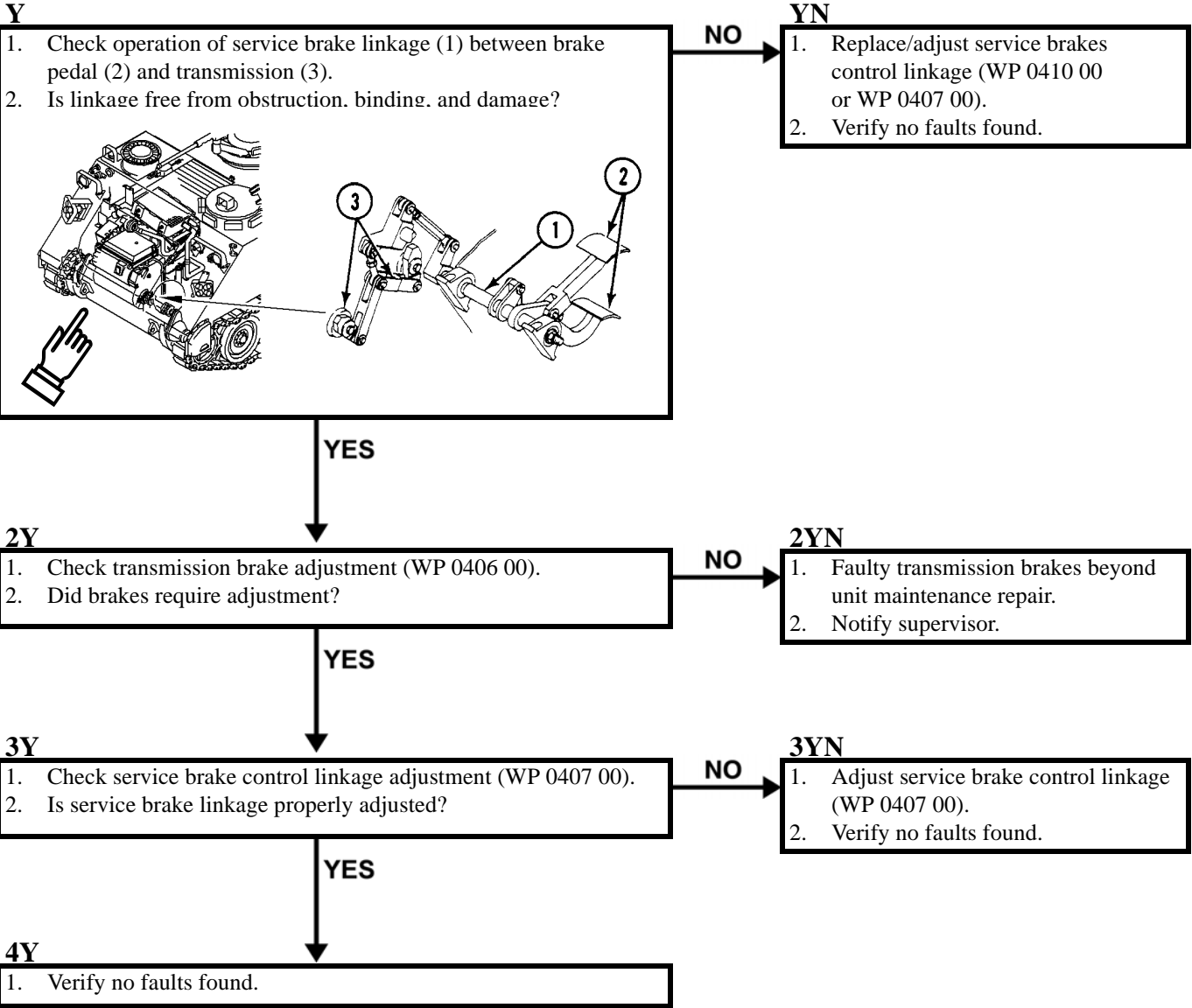
Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Personnel Required

Mechanic





**TRANSMISSION WON'T UPSHIFT OR SHIFTS ERRATICALLY
IN 1-4 POSITION**

0065 00

INITIAL SETUP:

Maintenance Level

Unit

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Power plant rear access panels removed (WP 0439 00)

Transmission in SL position

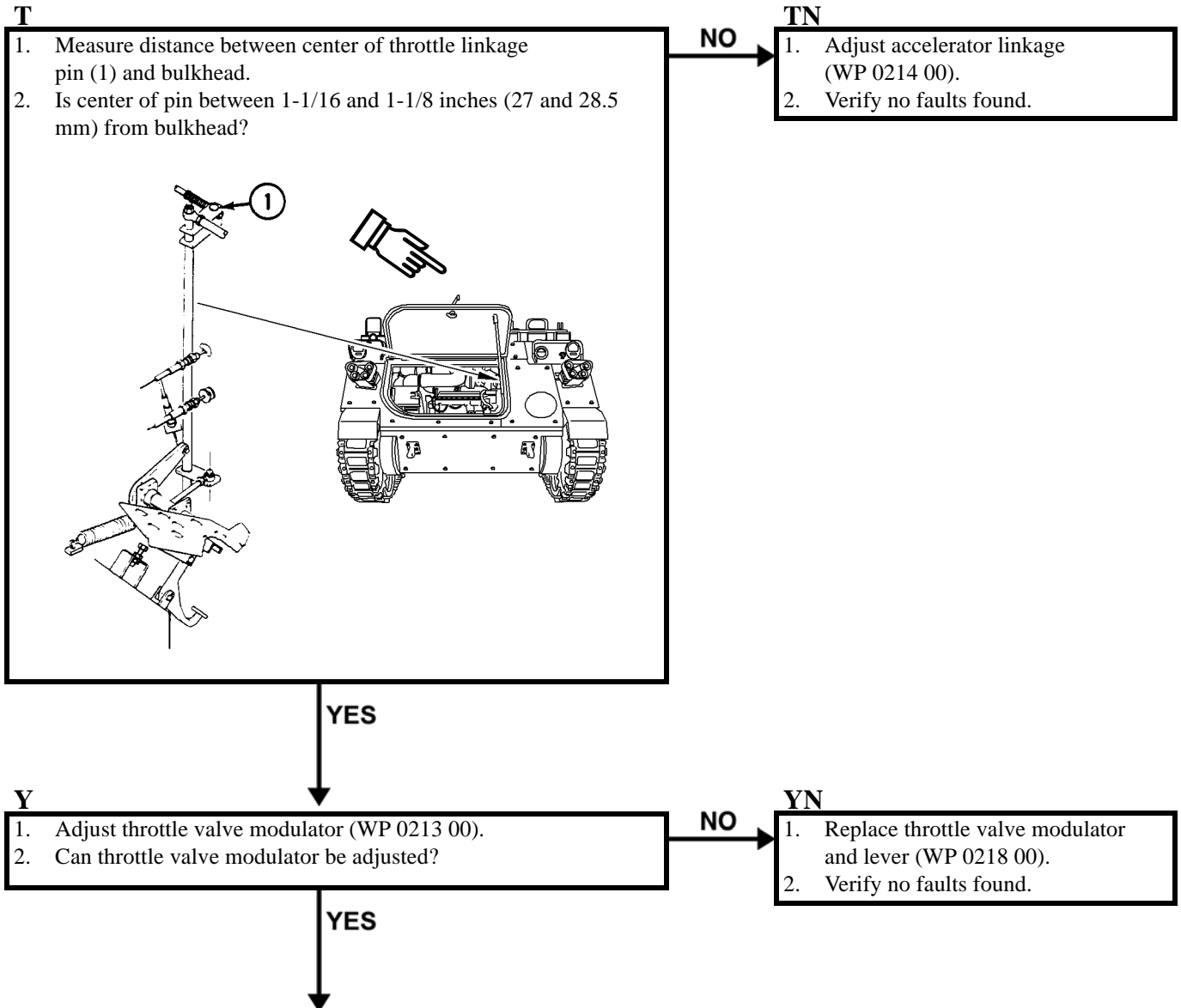
Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

MSD/ICE Test Set (WP 0926 00, Item 61)

Personnel Required

Mechanic



TRANSMISSION WON'T UPSHIFT OR SHIFTS ERRATICALLY IN 1-4 POSITION — Continued

0065 00

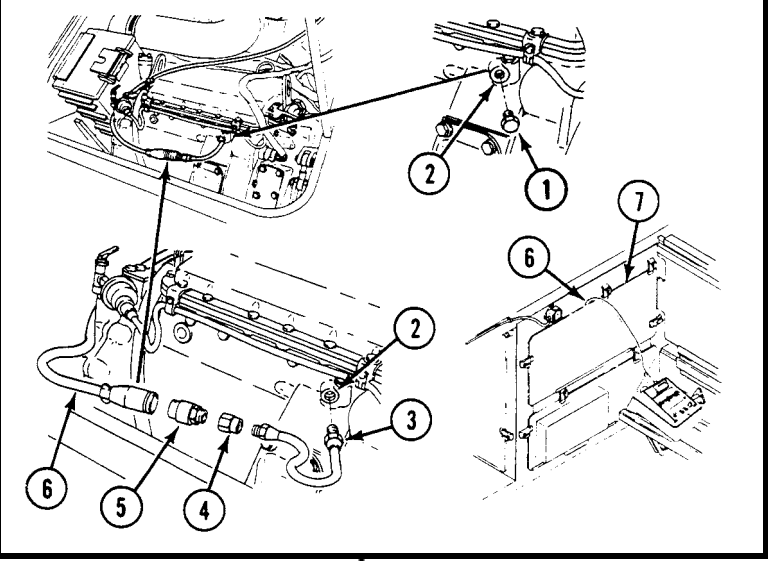
2Y

1. Remove plug (1) from GOVERNOR TWO (G2) pressure port (2).
2. Install MSD/ICE 11669236 hose (3) into (G2) pressure port (2).
3. Install MSD/ICE 444012 adapter (4) onto 11669236 hose (3).
4. Install MSD/ICE 12258876 pressure transducer (5) onto 444012 adapter (4).
5. Hook up MSD/ICE W4 cable (6) to transducer (5).
6. Route MSD/ICE W4 cable (6) around left side of transmission, over engine, and thru power plant rear access opening (7) as shown.
7. Install rear upper access panel allowing W4 cable slack to reach MSD. See TM 9-2350-277-10.
8. Close front power plant access door. See TM 9-2350-277-10.
9. Hook up MSD to DCA 6.
10. Hook up MSD/ICE W4 cable (6) to MSDjack J2TK.
11. Perform MSD/ICE test 50 (TM 9-4910-571-12&P) with carrier traveling over flat, level terrain at 30 MPH and transmission selector in 1-4 position.
12. Does MSD read between 92 and 107 psi?

NO

2YN

1. Replace governor assembly (WP 0397 00).
2. Verify no faults found.



YES

3Y

1. G2 pressure is OK.
2. Faulty transmission beyond unit maintenance repair.
3. Notify supervisor.

TRANSMISSION DOES NOT DOWNSHIFT IN 1-4 POSITION

0066 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Pressure Gauge Kit (WP 0926 00, Item 35)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)
- Transmission in SL position

Personnel Required

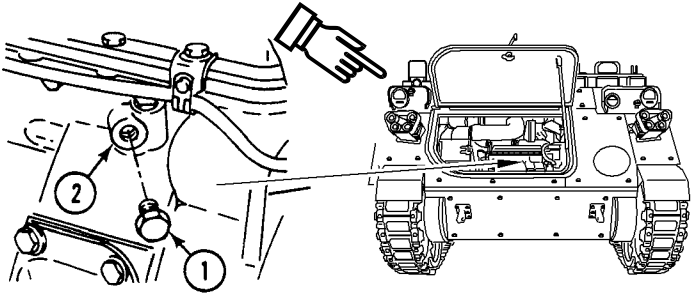
Mechanic

NOTE

Pressure tester must read 4 psi. Any other reading indicates a fault.

T

1. Remove plug (1) from GOVERNOR TWO (G2) port (2).
2. Install 1/16 inch pressure tester adapter in G2 port (2).
3. Install pressure tester on pressure tester adapter.
4. Start engine and let idle. See TM 9-2350-277-10.
5. Does pressure tester read more than 4 psi?



NO

TN

1. Faulty transmission beyond unit maintenance repair.
2. Notify supervisor.

YES

Y

1. Has governor assembly been replaced?

NO

YN

1. Replace governor assembly (WP 0397 00).
2. Verify no faults found.

YES

2Y

1. Faulty transmission beyond unit maintenance repair.
2. Notify supervisor.

TRANSMISSION DOES NOT HOLD 1ST POSITION

0067 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

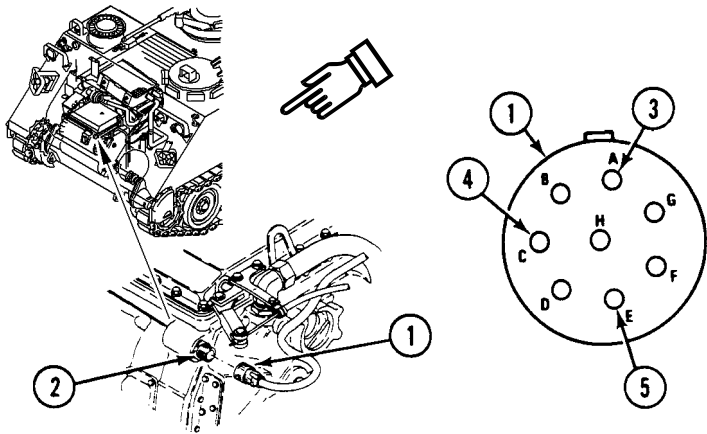
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Transmission in 1 position
- Power plant access door open (TM 9-2350-277-10)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
3. Measure voltage between each socket on harness 12349810 plug (1) and ground. Multimeter should read 18 volts or more at sockets A (3), C (4), E (5), and 0 volts for all remaining socket checks.
4. Does multimeter read less than 18 volts at sockets A (3), C (4), and E (5), or 0 volts at all remaining sockets?



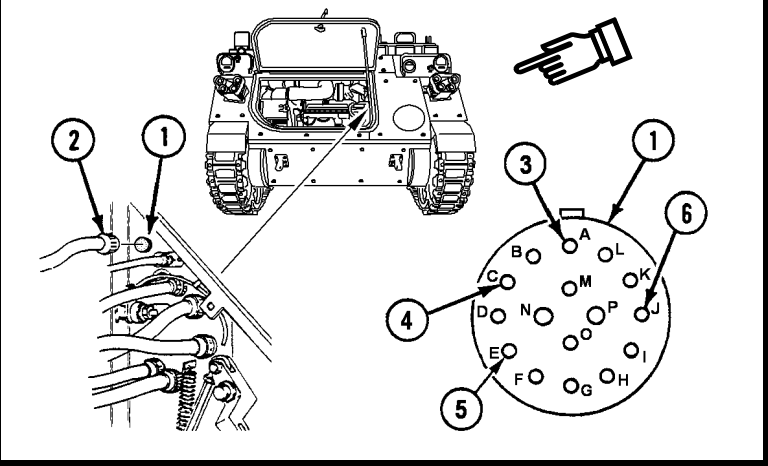
YES

TN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure voltage between each socket on harness 12349813 jack (2) and ground. Multimeter should read 18 volts or more for sockets A (3), C (4), E (5), J (6), and 0 volts for the remaining socket checks.
3. Does multimeter read less than 18 volts at sockets A (3), C (4), E (5), and J (6), or more than 0 volts at all remaining sockets?



NO

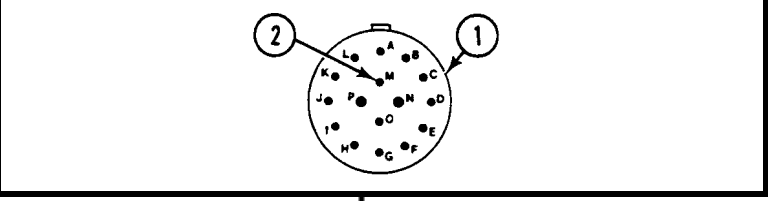
YN

1. Faulty harness 12349810 (transmission control wiring harness). Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Install harness 12349810 plug on transmission jack.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Measure resistance between transmission controller jack (1) pin M (2) and pins A thru G. Multimeter should read 0 ohms for pins A, C, and E, and infinity for all remaining pin checks.
5. Does multimeter read more than 0 ohms for pins A, C, and E, or less than infinity for all remaining pins?



NO

2YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty harness 12349813 (transmission wiring harness). Beyond unit maintenance repair.
3. Notify supervisor.

YES

3Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller switch (WP 0389 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

TRANSMISSION DOES NOT HOLD 2ND POSITION

0068 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

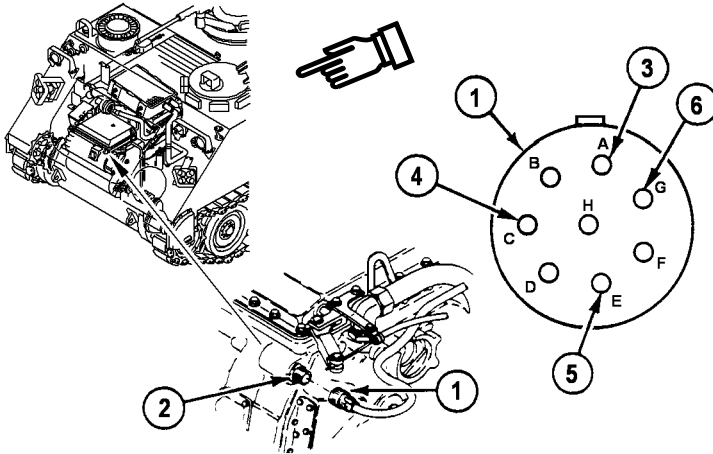
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Transmission in 1-2 position
- Power plant access door open (TM 9-2350-277-10)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
3. Measure voltage between each socket on harness 12349810 plug (1) and ground. Multimeter should read 18 volts or more at socket A (3), C (4), E (5), and G (6), and read 0 volts for all remaining sockets.
4. Does multimeter read less than 18 volts at sockets A (3), C (4), E (5), and G (6), or more than 0 volts at all remaining sockets?



YES

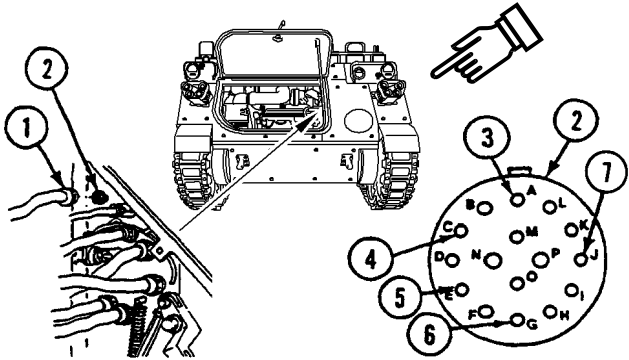
NO

TN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure voltage between each socket on harness 12349813 jack (2) and ground. Multimeter should read 18 volts or more for socket A (3), C (4), E (5), G (6), and J (7), and 0 volts for the remaining socket checks.
3. Does multimeter read less than 18 volts at sockets A (3), C (4), E (5), G (6), and J (7), or more than 0 volts at all remaining sockets?



NO

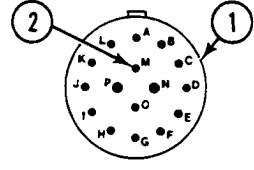
YN

1. Faulty harness 12349810 (transmission control wiring harness). Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Turn MASTER SWITCH to OFF. See TM9-2350-277-10.
2. Install harness 12349810 plug on transmission jack.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Measure resistance between transmission controller jack (1) pin M (2), and pins A thru G. Multimeter should read 0 ohms for pins A, C, E and G, and infinity for all other pins.
5. Does multimeter read more than 0 ohms for pins A, C, E, and G, or less than infinity for all remaining pins?



NO

2YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty harness 12349813 (transmission wiring harness). Beyond unit maintenance repair.
3. Notify supervisor.

YES

3Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller switch (WP 0389 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

TRANSMISSION DOES NOT HOLD 3RD POSITION

0069 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

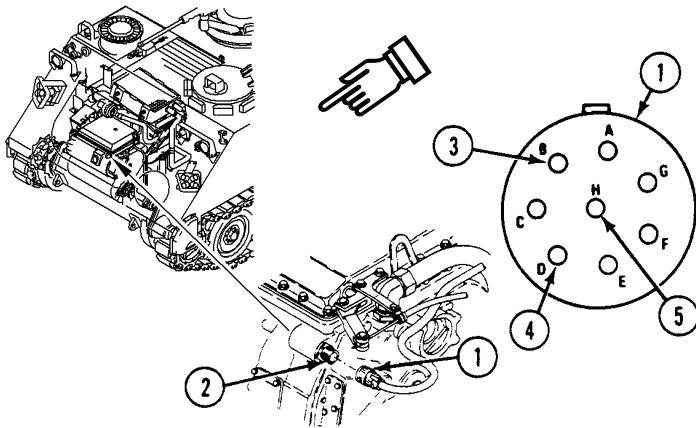
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Transmission in 1-3 position
- Power plant access door open (TM 9-2350-277-10)

Personnel Required

Mechanic

T

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
3. Measure voltage between each socket on harness 12349810 plug (1) and ground. Multimeter should read 0 volts at socket B (3), D (4), and H (5), and at least 18 volts for all remaining socket checks.
4. Does multimeter read more than 0 volts at sockets B (3), D (4), and H (5), or less than 18 volts at all remaining sockets?



YES

NO

TN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

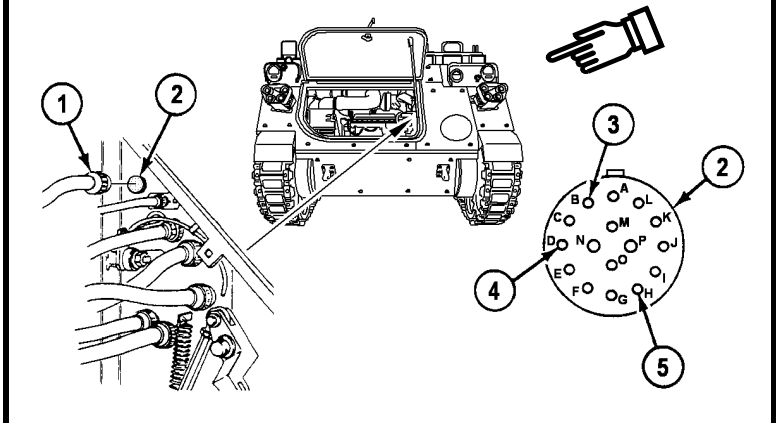
Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure voltage between each socket on harness 12349813 jack (2) and ground. Multimeter should read 0 volts for sockets B (3), D (4), and H (5), and at least 18 volts for the remaining socket checks.
3. Does multimeter read more than 0 volts at sockets B (3), D (4), and H (5), or less than 18 volts at all remaining sockets?

NO

YN

1. Faulty harness 12349810 (transmission control wiring harness). Beyond unit maintenance repair.
2. Notify supervisor.



YES

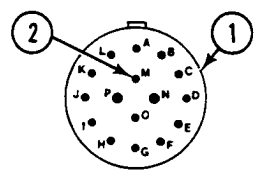
2Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Install harness 12349810 plug on transmission jack.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Measure resistance between transmission controller jack (1) pin M (2), and pins A thru G. Multimeter should read infinity for pins B and D, and read 0 ohms for pins A, C, E, F, and G.
5. Does multimeter read less than infinity for pins B and D, or more than 0 ohms for pins A, C, E, and G?

NO

2YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty harness 12349813 (transmission wiring harness). Beyond unit maintenance repair.
3. Notify supervisor.



YES

3Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller switch (WP 0389 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

TRANSMISSION DOES NOT REVERSE

0070 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

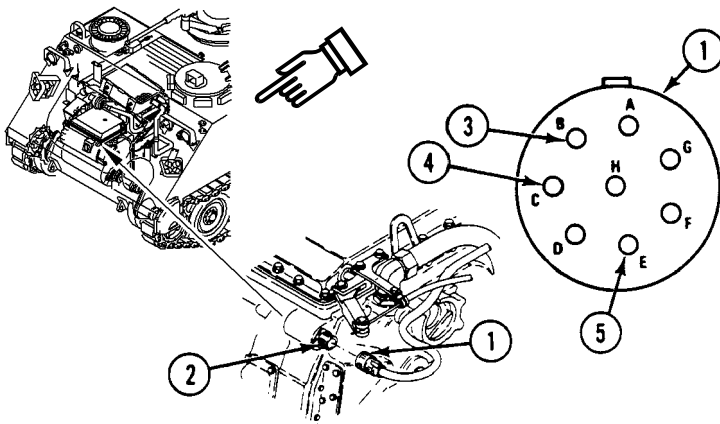
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Transmission in R position
- Power plant access door open (TM 9-2350-277-10)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
3. Measure voltage between each socket on harness 12349810 plug (1) and ground. Multimeter should read 18 volts or more at socket B (3), C (4), and E (5), and 0 volts for all remaining socket checks.
4. Does multimeter read less than 18 volts at sockets B (3), C (4), and E (5), or more than 0 volts at all remaining sockets?



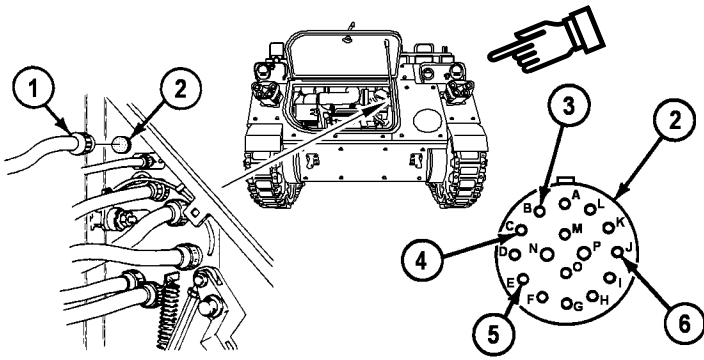
YES

TN

1. Faulty transmission, Beyond unit maintenance repair.
2. Notify supervisor.

Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure voltage between each socket on harness 12349813 jack (2) and ground. Multimeter should read 18 volts or more for socket B (3), C (4), E (5), and J (6), and 0 volts for the remaining socket checks.
3. Does multimeter read less than 18 volts at sockets B (3), C (4), E (5), and J (6), or more than 0 volts at all remaining sockets?



NO

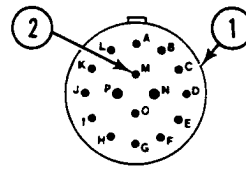
YN

1. Faulty harness 12349810 (transmission control wiring harness). Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Install harness 12349810 plug on transmission jack.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Measure resistance between transmission controller jack (1) pin M (2) and pins A through G. Multimeter should read 0 ohms for pins B, C, and E, and read infinity for all remaining pins.
5. Does multimeter read more than 0 ohms for pins B, C, and E, or less than infinity for all remaining pins?



NO

2YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty harness 12349813 (transmission wiring harness). Beyond unit maintenance repair.
3. Notify supervisor.

YES

3Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller switch (WP 0389 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

TRANSMISSION DOES NOT PIVOT STEER

0071 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

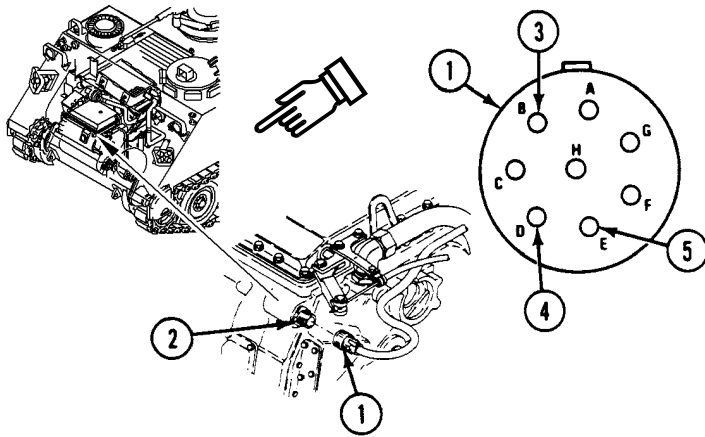
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Transmission in PV position
- Power plant access door open (TM 9-2350-277-10)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove harness 12349810 plug (1) from transmission jack (2).
2. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
3. Measure voltage between each socket on harness 12349810 plug (1) and ground. Multimeter should read 18 volts or more at sockets B (3), D (4), and E (5), and 0 volts for all remaining socket checks.
4. Does multimeter indicate an incorrect reading?



YES

TN

1. Faulty transmission. Beyond unit maintenance repair.
2. Notify supervisor.

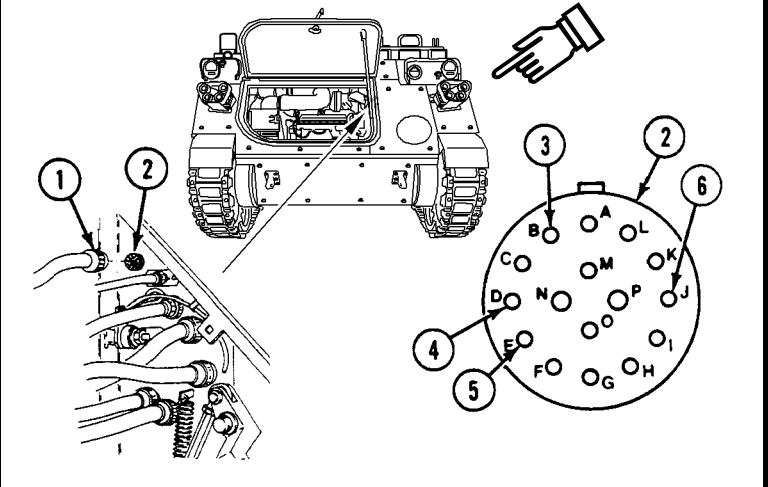
Y

1. Remove harness 12349810 plug (1) from harness 12349813 jack (2) at carrier bulkhead.
2. Measure voltage between each socket on harness 12349813 jack (2) and ground. Multimeter should read 18 volts or more for socket B (3), D (4), E (5), and J (6), and 0 volts for all remaining socket checks.
3. Does multimeter indicate an incorrect reading?

NO

YN

1. Faulty harness 12349810 (transmission control wiring harness). Beyond unit maintenance repair.
2. Notify supervisor.



YES

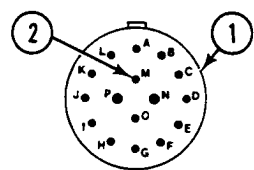
2Y

1. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
2. Install harness 12349810 plug on transmission jack.
3. Remove transmission controller (WP 0386 00 or WP 0387 00).
4. Measure resistance between transmission controller jack (1) pin M (2) and pins A thru G. Multimeter should read 0 ohms for pins B, D, and E, and infinity for all remaining pin checks.
5. Does multimeter indicate an incorrect reading?

NO

2YN

1. Install transmission controller (WP 0386 00 or WP 0387 00).
2. Faulty harness 12349813 (transmission wiring harness). Beyond unit maintenance repair.
3. Notify supervisor.



YES

3Y

1. Install harness 12349810 plug on harness 12349813 jack at carrier bulkhead.
2. Replace faulty transmission controller switch (WP 0389 00).
3. Perform pin to pin check (WP 0060 00).
4. Verify no faults found.

TRANSMISSION HIGH TEMP INDICATOR COMES ON

0072 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Pressure Gauge Kit (WP 0926 00, Item 35)

Personnel Required

Mechanic

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

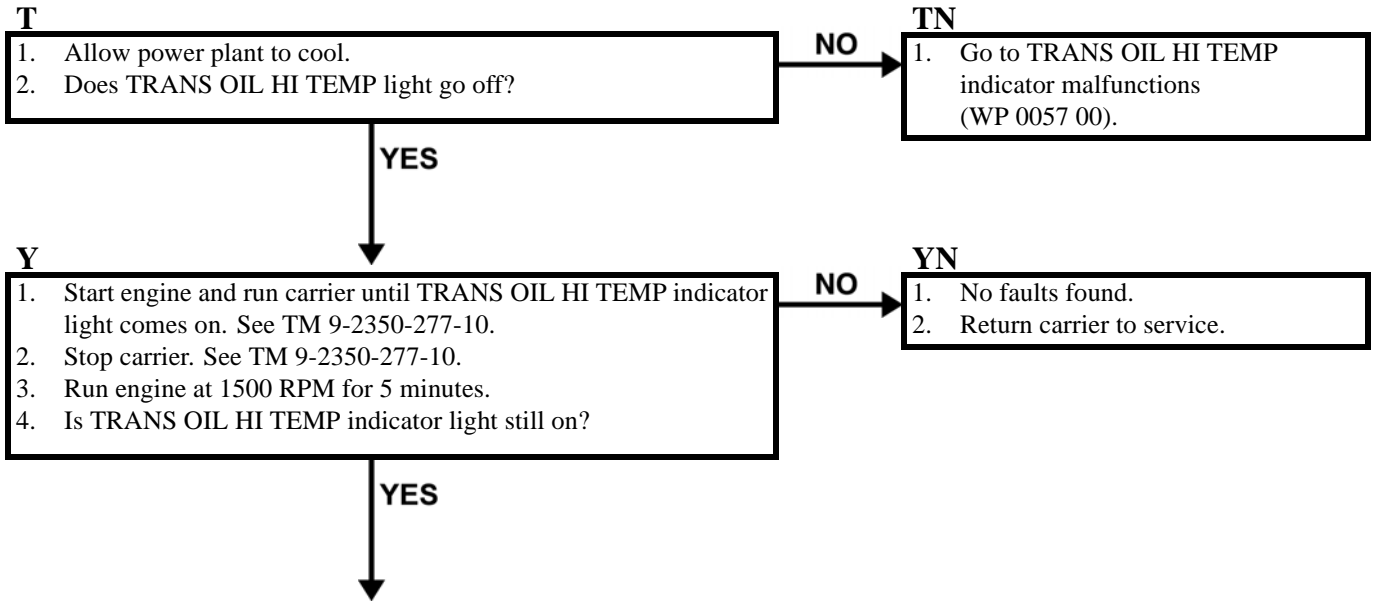
Transmission in SL

Transmission oil level checked (WP 0155 00)

Power plant access door open (TM 9-2350-277-10)

Driver's power plant access panel removed
(WP 0441 00)

Power plant rear access panels removed (WP 0439 00)



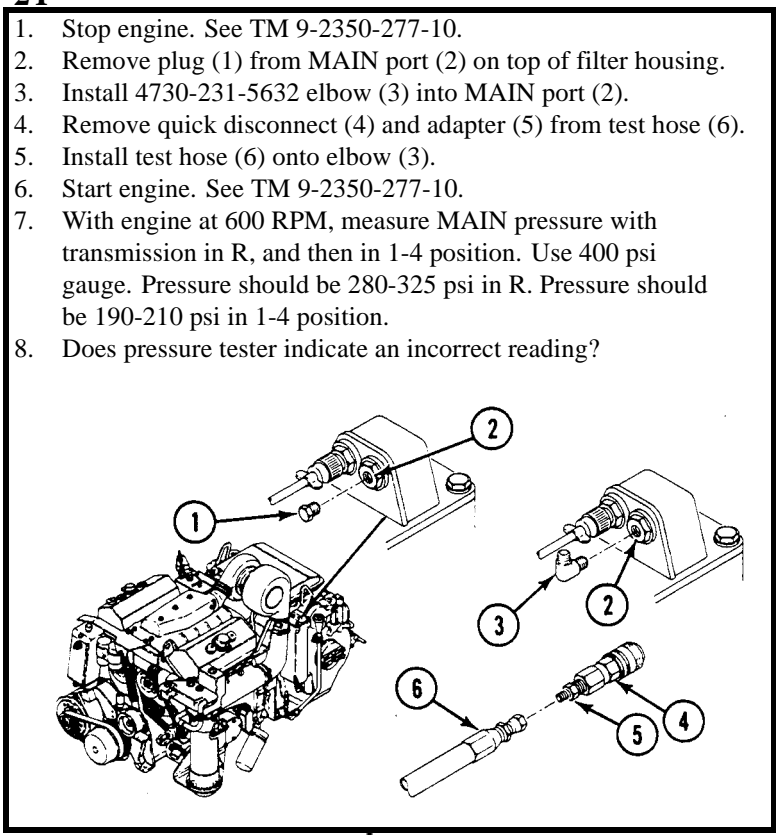
2Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove plug (1) from MAIN port (2) on top of filter housing.
3. Install 4730-231-5632 elbow (3) into MAIN port (2).
4. Remove quick disconnect (4) and adapter (5) from test hose (6).
5. Install test hose (6) onto elbow (3).
6. Start engine. See TM 9-2350-277-10.
7. With engine at 600 RPM, measure MAIN pressure with transmission in R, and then in 1-4 position. Use 400 psi gauge. Pressure should be 280-325 psi in R. Pressure should be 190-210 psi in 1-4 position.
8. Does pressure tester indicate an incorrect reading?

NO

2YN

GO TO BY (PAGE 0072 00-4)

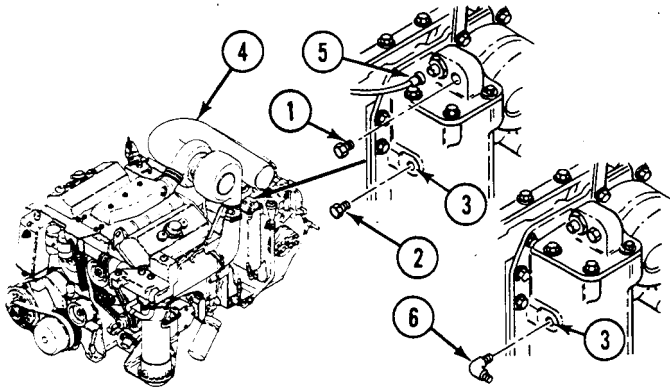


YES



3Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove pressure tester, elbow, and install MAIN port plug (1).
3. Remove plug (2) from FILTER IN port (3).
4. Remove turbo air inlet duct (4) and trans filter clogged switch plug (5).
5. Install 4730-766-9000 elbow (6) into FILTER IN port (3).
6. Install pressure tester into elbow (6).
7. Install turbo air inlet duct (4).
8. Start engine. See TM 9-2350-277-10.
9. With engine at 600 RPM, measure FILTER IN pressure with transmission in R, and then in 1-4 position. Pressure should be 280-325 psi in R. Pressure should be 190-210 psi in 1-4 position.
10. Is FILTER IN pressure 35 psi or more greater than MAIN pressure?



NO → **3YN**
GO TO CY (PAGE 0072 00-4)

YES

4Y

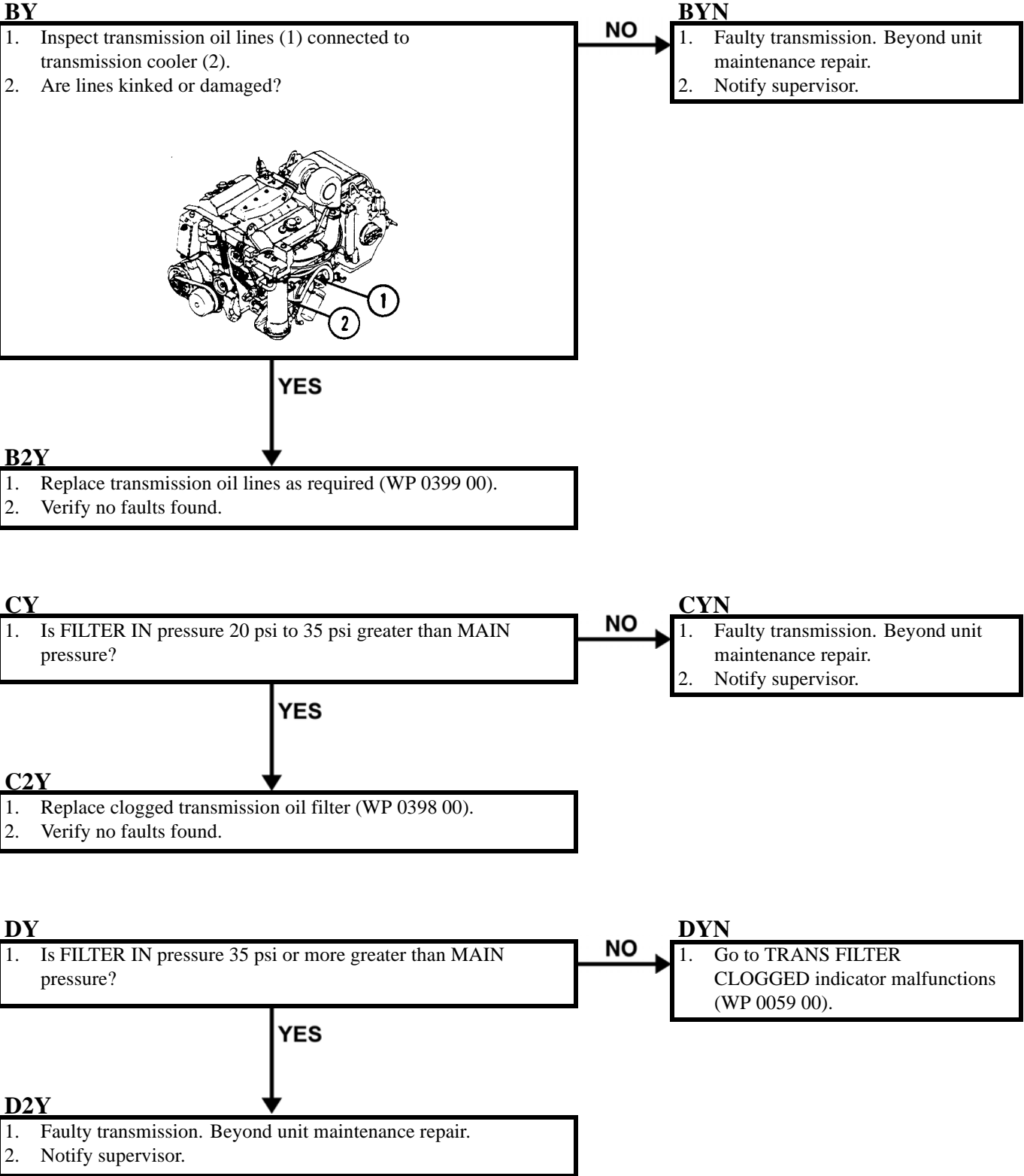
1. Is TRANS FILTER CLOGGED indicator ON?

NO → **4YN**
GO TO DY (PAGE 0072 00-4)

YES

5Y

1. Stop engine. See TM 9-2350-277-10.
2. Replace transmission oil filter element (WP 0398 00).
3. Verify no faults found.



TRANSMISSION LOW LUBE INDICATOR COMES ON

0073 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- Fitting Kit (WP 0926 00, Item 21)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Pressure Gauge Kit (WP 0926 00, Item 35)

Personnel Required

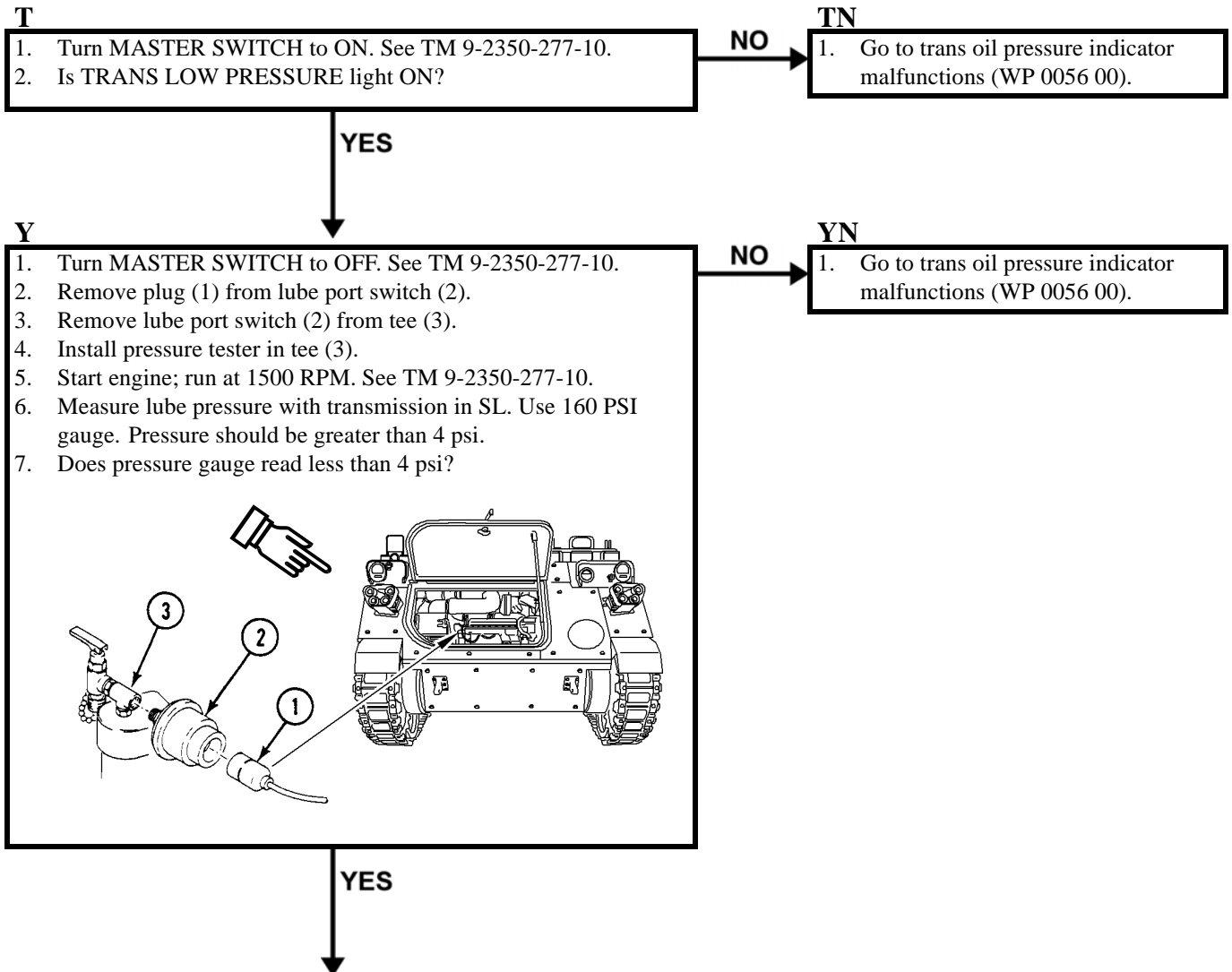
Mechanic

References

TM 9-2350-277-10

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Parking brake off (TM 9-2350-277-10)
- Transmission in SL position
- Transmission oil level checked (WP 0155 00)
- Power plant warm
- Idle speed set at 600 RPM
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)



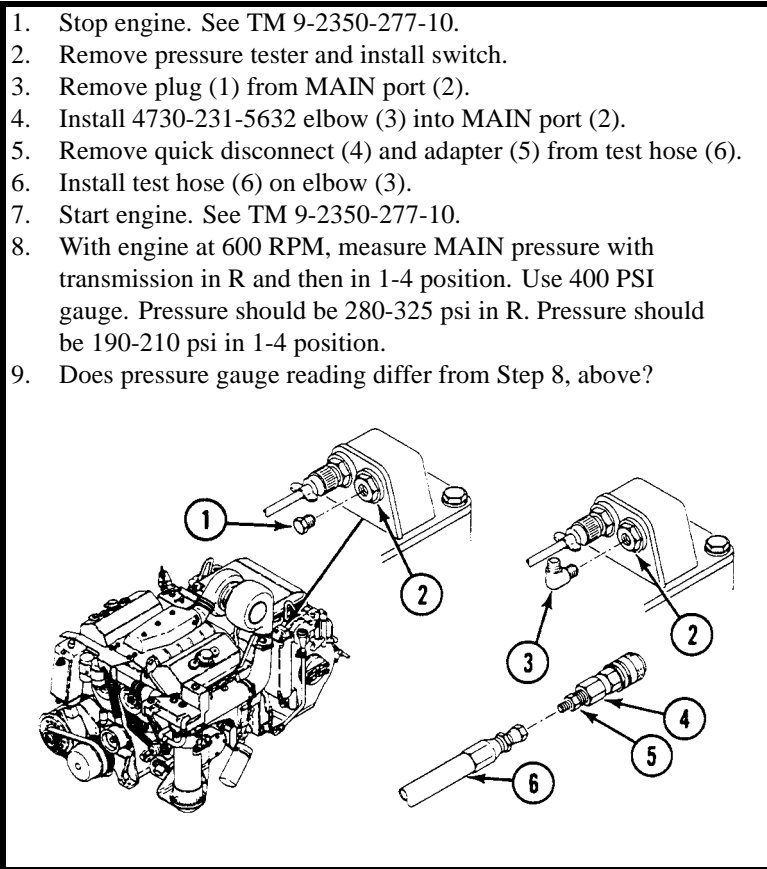
2Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove pressure tester and install switch.
3. Remove plug (1) from MAIN port (2).
4. Install 4730-231-5632 elbow (3) into MAIN port (2).
5. Remove quick disconnect (4) and adapter (5) from test hose (6).
6. Install test hose (6) on elbow (3).
7. Start engine. See TM 9-2350-277-10.
8. With engine at 600 RPM, measure MAIN pressure with transmission in R and then in 1-4 position. Use 400 PSI gauge. Pressure should be 280-325 psi in R. Pressure should be 190-210 psi in 1-4 position.
9. Does pressure gauge reading differ from Step 8, above?

NO

2YN

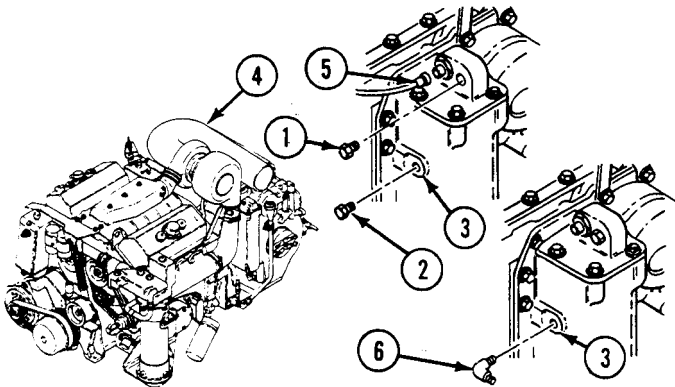
1. Transmission low lube pressure. Beyond unit maintenance repair.
2. Notify supervisor.



YES

3Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove pressure tester and install MAIN port plug (1).
3. Remove plug (2) from FILTER IN port (3).
4. Remove turbo air inlet duct (4) and trans filter clogged switch plug (5).
5. Install 4730-766-9000 elbow (6) into FILTER IN port (3).
6. Install pressure tester onto elbow (6). Use 400 PSI gauge.
7. Install turbo air inlet duct (4).
8. Start engine. See TM 9-2350-277-10.
9. With engine at 600 RPM, measure FILTER IN pressure with transmission in R and then in 1-4 position. FILTER IN pressure should be within 35 psi of MAIN pressure.
10. Is FILTER IN pressure, at 35 psi or more, greater than MAIN pressure?



NO → **3YN**
GO TO AY (PAGE 0073 00-4)

YES

4Y

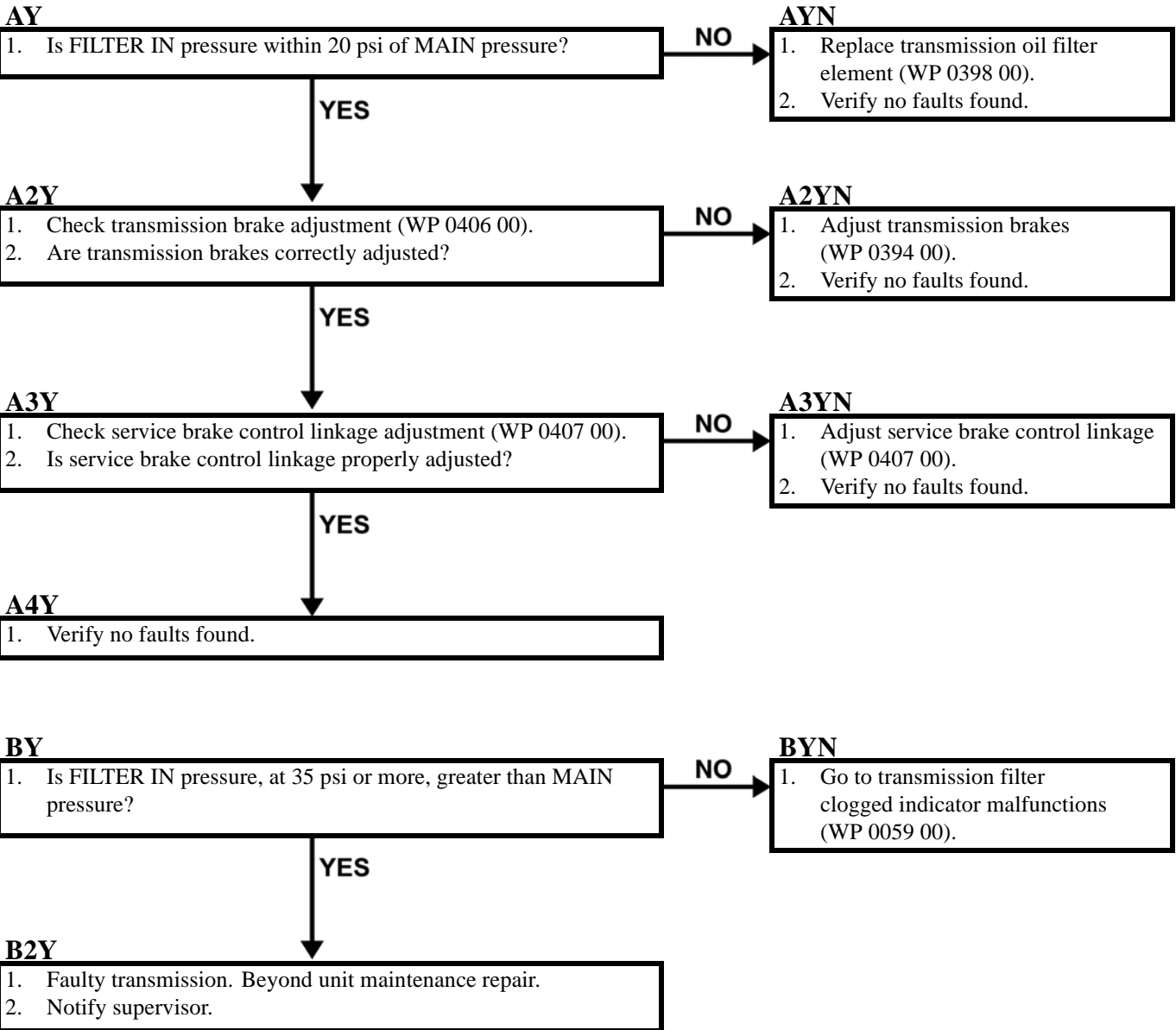
1. Is trans filter clogged indicator ON?

NO → **4YN**
GO TO BY (PAGE 0073 00-4)

YES

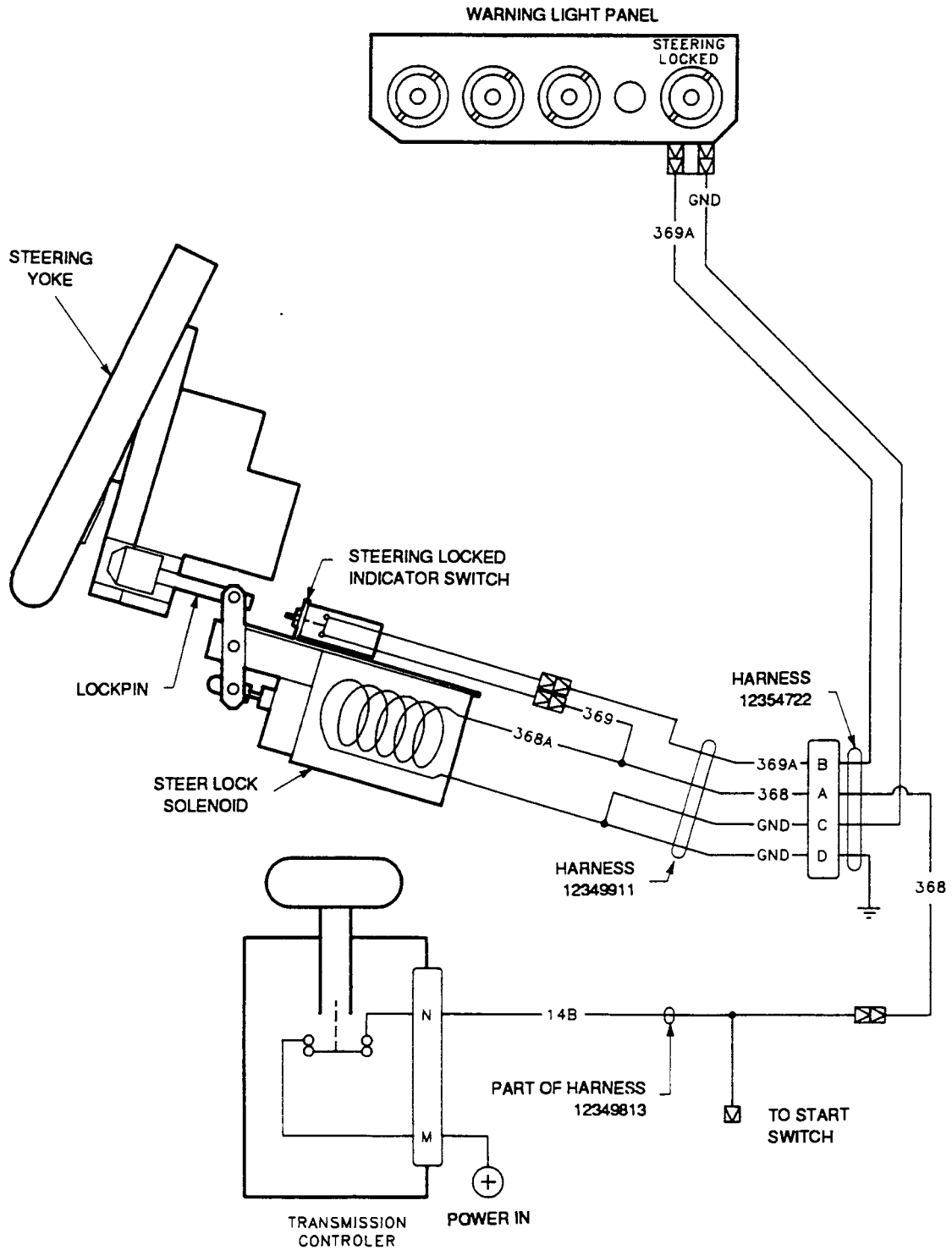
5Y

1. Stop engine. See TM 9-2350-277-10.
2. Replace transmission oil filter element (WP 0398 00).
3. Verify no faults found.



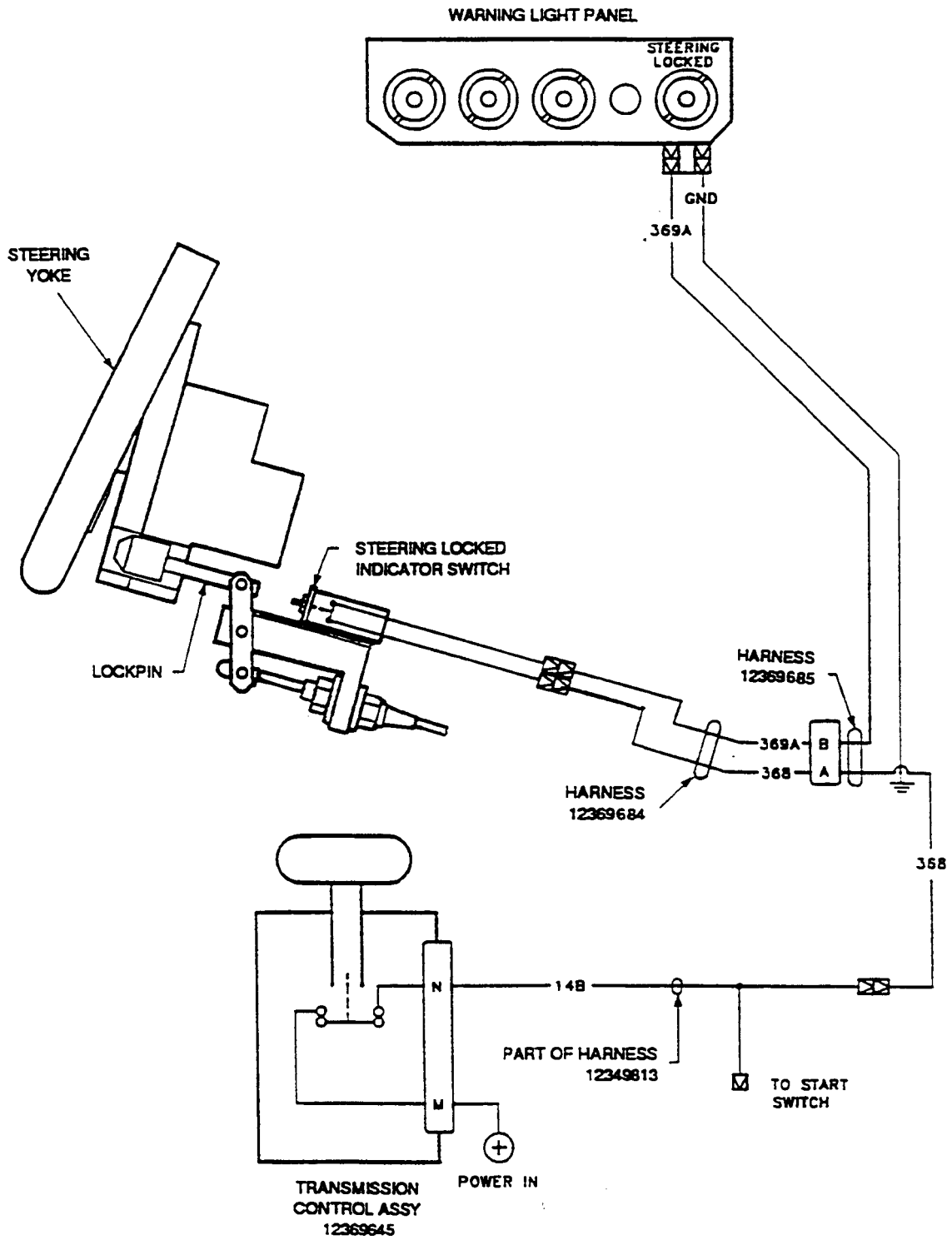
STEERING LOCK SCHEMATIC (SOLENOID-ACTIVATED LOCK)

0074 00



STEERING LOCK SCHEMATIC (CABLE-ACTIVATED LOCK)

0075 00



SOLENOID-ACTIVATED STEERING LOCK MALFUNCTIONS

0076 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

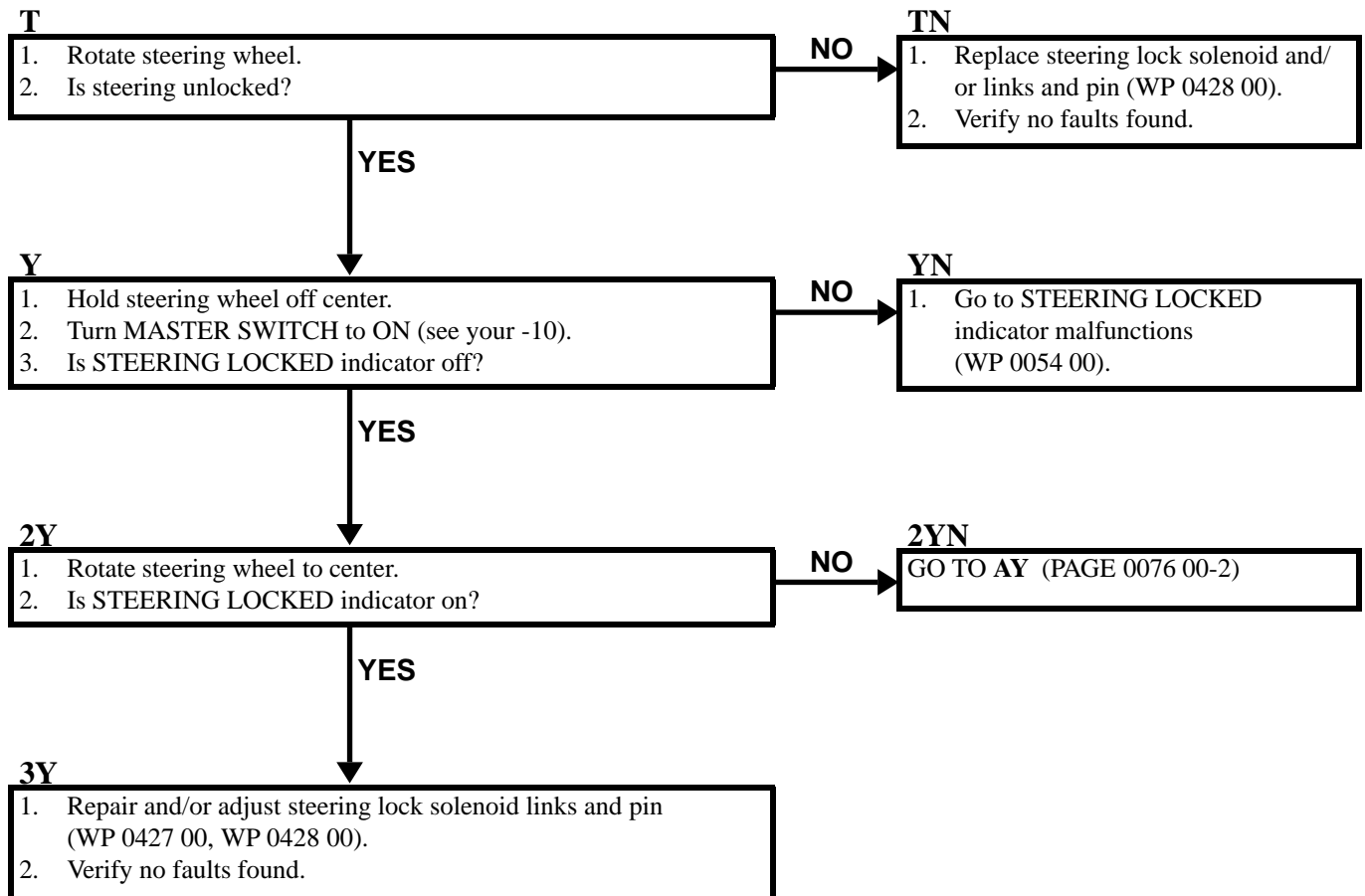
Engine stopped (see your -10)

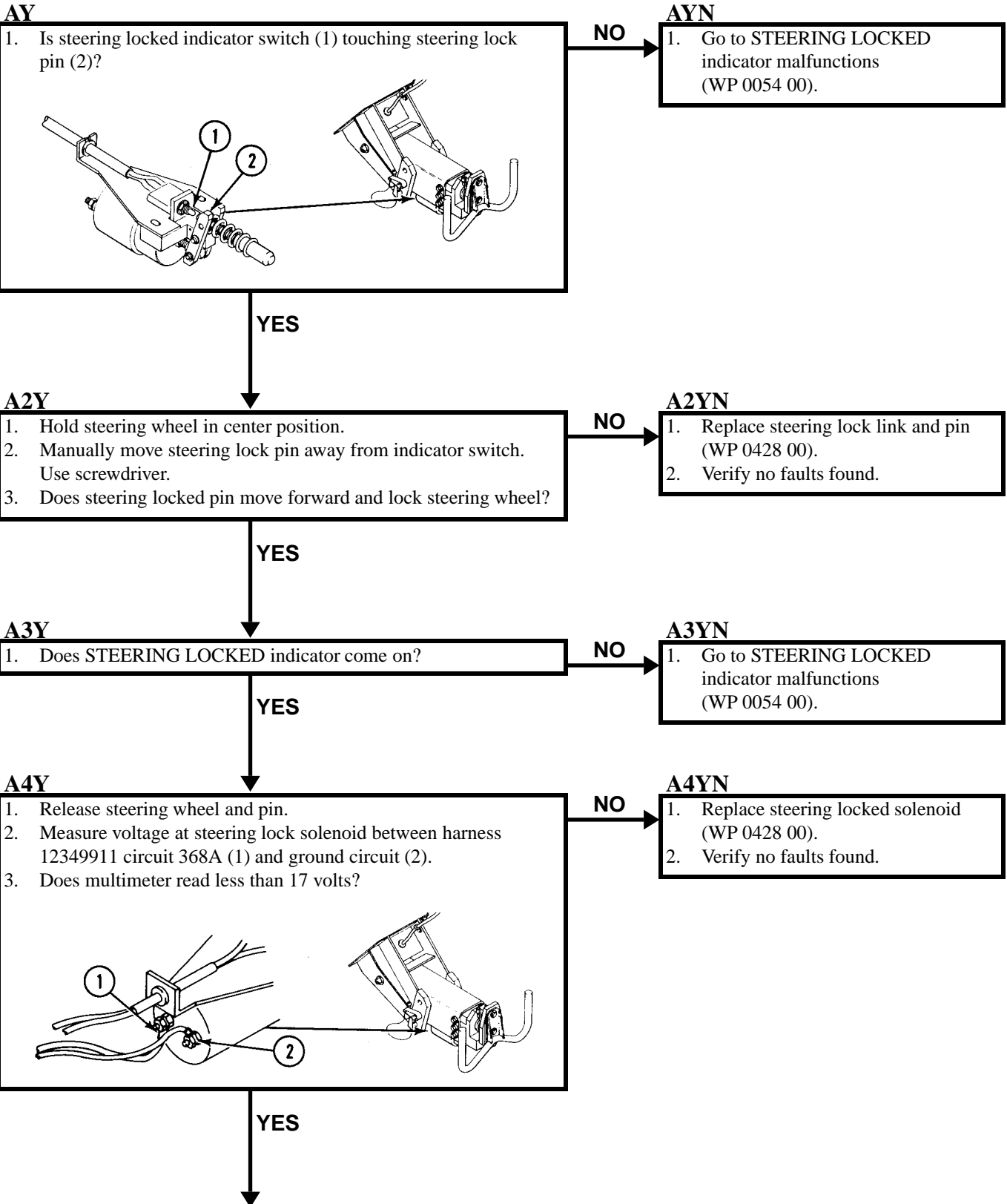
Carrier blocked (see your -10)

Transmission controller in SL

Personnel Required

Unit Mechanic





A5Y

- | |
|---|
| <ol style="list-style-type: none">1. Repair harness 12345911 (WP 0367 00).2. Verify no faults found. |
|---|

CABLE-ACTIVATED STEERING LOCK MALFUNCTIONS

0077 00

INITIAL SETUP:

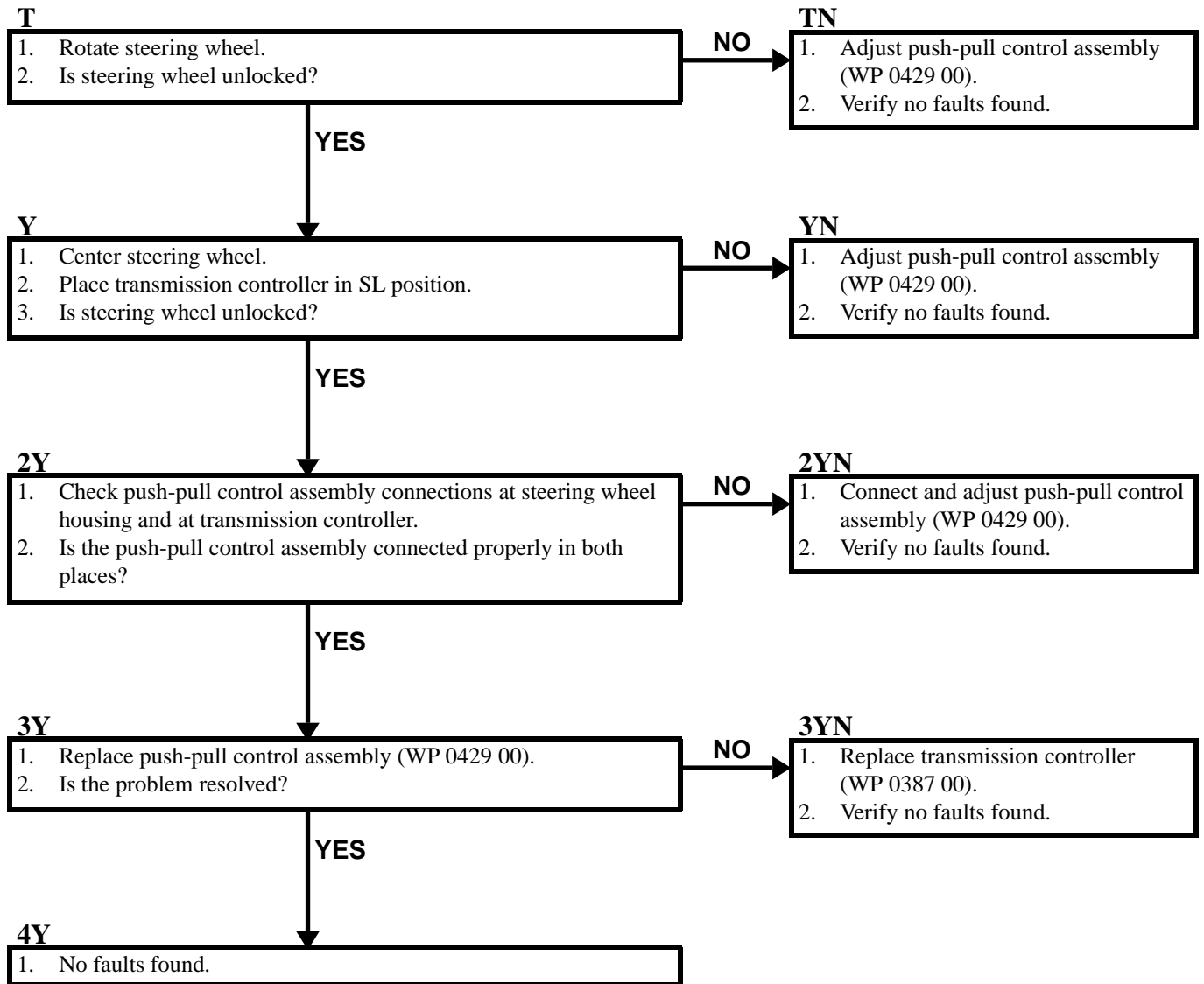
Maintenance Level
Unit

References
See your -10

Tools and Special Tools
General Mechanic's Tool Kit (WP 0926 00, Item 65)

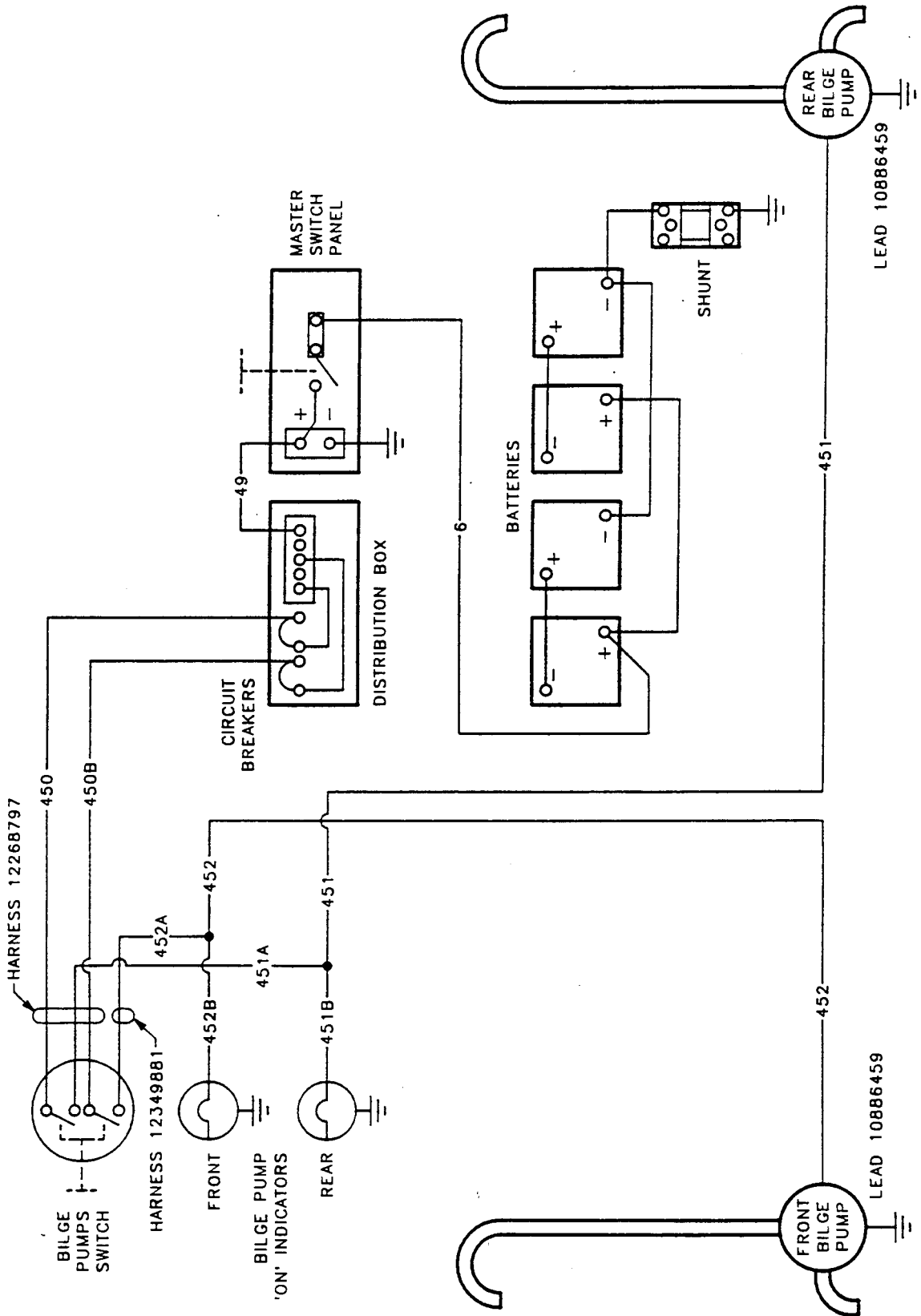
Equipment Condition
Engine stopped (see your -10)
Carrier blocked (see your -10)
Transmission controller in any position except SL

Personnel Required
Unit Mechanic



BILGE PUMP SCHEMATIC

0078 00



FRONT AND/OR REAR BILGE PUMP(S) AND/OR LIGHTS DON'T WORK

0080 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Personnel Required

Unit Mechanic

References

See your -10

Equipment Condition

- Engine stopped (see your -10)
- Carrier blocked (see your -10)
- MASTER SWITCH OFF (see your -10)
- Driver's engine access panel removed (front bilge pump) (WP 0441 00)
- Ramp lowered (rear bilge pump) (see your -10)
- Rear floor plate removed (rear bilge pump) (WP 0539 00)
- Fog oil tank removed (rear bilge pump-M1059A3 only) (WP 0753 00)

T

1. Turn BILGE PUMP switch to ON (see your -10).
2. Do both bilge pump lights come on?

NO

GO TO BY (PAGE 0080 00-2)

YES

Y

1. Does either bilge pump (front or rear) fail to start?

NO

GO TO CY (PAGE 0080 00-5)

YES

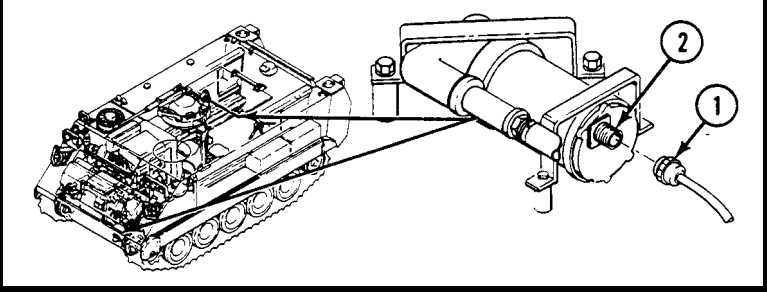
2Y

1. Locate bilge pump that is not operating.
2. Remove circuit 451 (rear pump), or circuit 452 (front pump), plug (1) from pump jack (2).
3. Measure voltage between plug 451 or 452 and ground.
4. Does multimeter read 17 or more volts?

NO

2YN

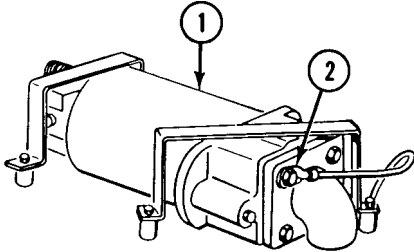
1. Repair harness 12349881 (front bilge pump), WP 0382 00); or repair harness 12268797 (rear bilge pump), WP 0382 00).
2. Verify no faults found.



YES

3Y

1. Turn MASTER SWITCH to OFF.
2. Check continuity between bilge pump body (1) and ground lead (2).
3. Is there continuity?



NO

3YN

1. Replace ground lead 10886459 to bilge pump (WP 0632 00), front; (WP 0635 00), rear.
2. Verify no faults found.

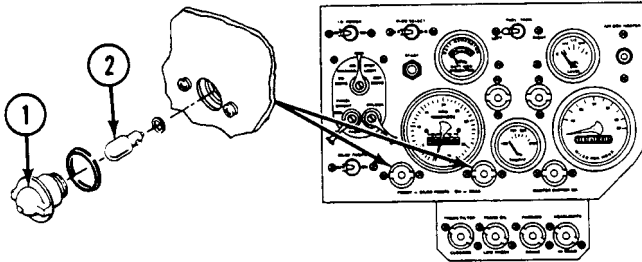
YES

4Y

1. Replace bilge pump (WP 0632 00), front; (WP 0635 00), rear.
2. Verify no faults found.

BY

1. Remove BILGE PUMP ON indicator lens (1) and bulb (2).
2. Check continuity between bulb center contact and bulb base.
3. Is there any continuity?



NO

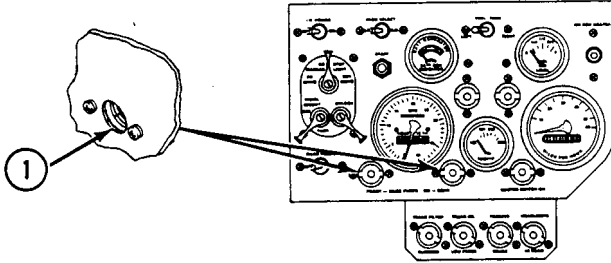
BYN

1. Replace BILGE PUMP ON indicator light bulb (WP 0286 00).
2. Verify no faults found.

YES

B2Y

1. Measure voltage between bulb socket center contact (1) and ground.
2. Does multimeter read less than 17 volts?



NO

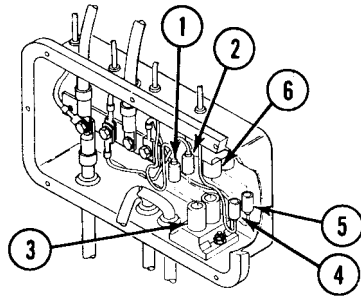
B2YN

1. Replace BILGE PUMP ON light assembly (WP 0286 00).
2. Verify no faults found.

YES

B3Y

1. Turn MASTER SWITCH to OFF.
2. Install plug 451 B or 452 B on indicator light assembly.
3. Remove master switch panel from distribution box (WP 0260 00 or WP 0261 00).
4. Remove plug 450 B (1) and plug 450 C (2) from front bilge pump circuit breaker (3); or remove plug 450 (4) and plug 450 A (5) from rear bilge pump circuit breaker (6).
5. Check continuity across circuit breaker jacks.
6. Is there continuity?



NO

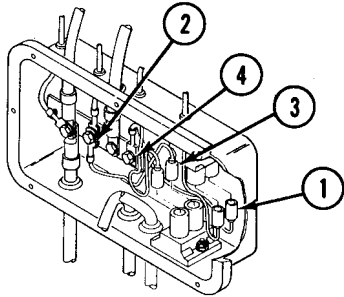
B3YN

1. Replace bilge pump circuit breaker (WP 0275 00).
2. Verify no faults found.

YES

B4Y

1. Check continuity between plug 450 A (1) to 450 A lead end at bus bar (2) for rear pump; or plug 450 C (3) to 450 C lead end at bus bar (4) for front pump.
2. Is there continuity?



NO

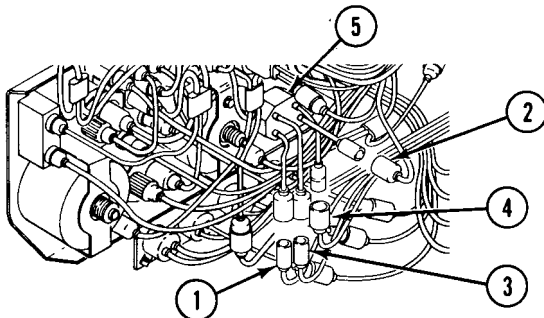
B4YN

1. Replace lead 10861710 (front), (WP 0270 00), or replace lead 10861711 (rear), (WP 0270 00).
2. Install bilge pump leads.
3. Verify no faults found.

YES

B5Y

1. Remove instrument panel for access (WP 0295 00).
2. Remove plug 450 B (1) and plug 452 B (2) (front) or plug 450 (3) and 451 A (4) (rear) from bilge pump switch (5).
3. Check continuity between bilge pump switch jacks with BILGE PUMPS switch on.
4. Is there continuity?



NO

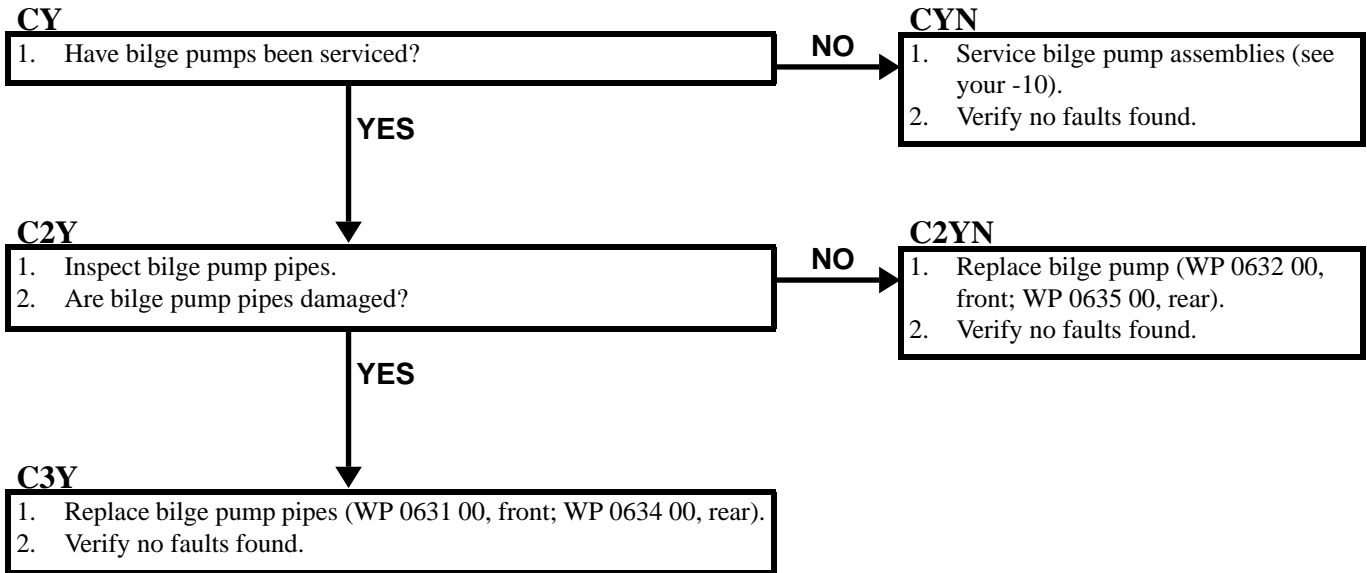
B5YN

1. Install master switch panel (WP 0260 00).
2. Replace bilge pump switch (WP 0281 00).
3. Verify no faults found.

YES

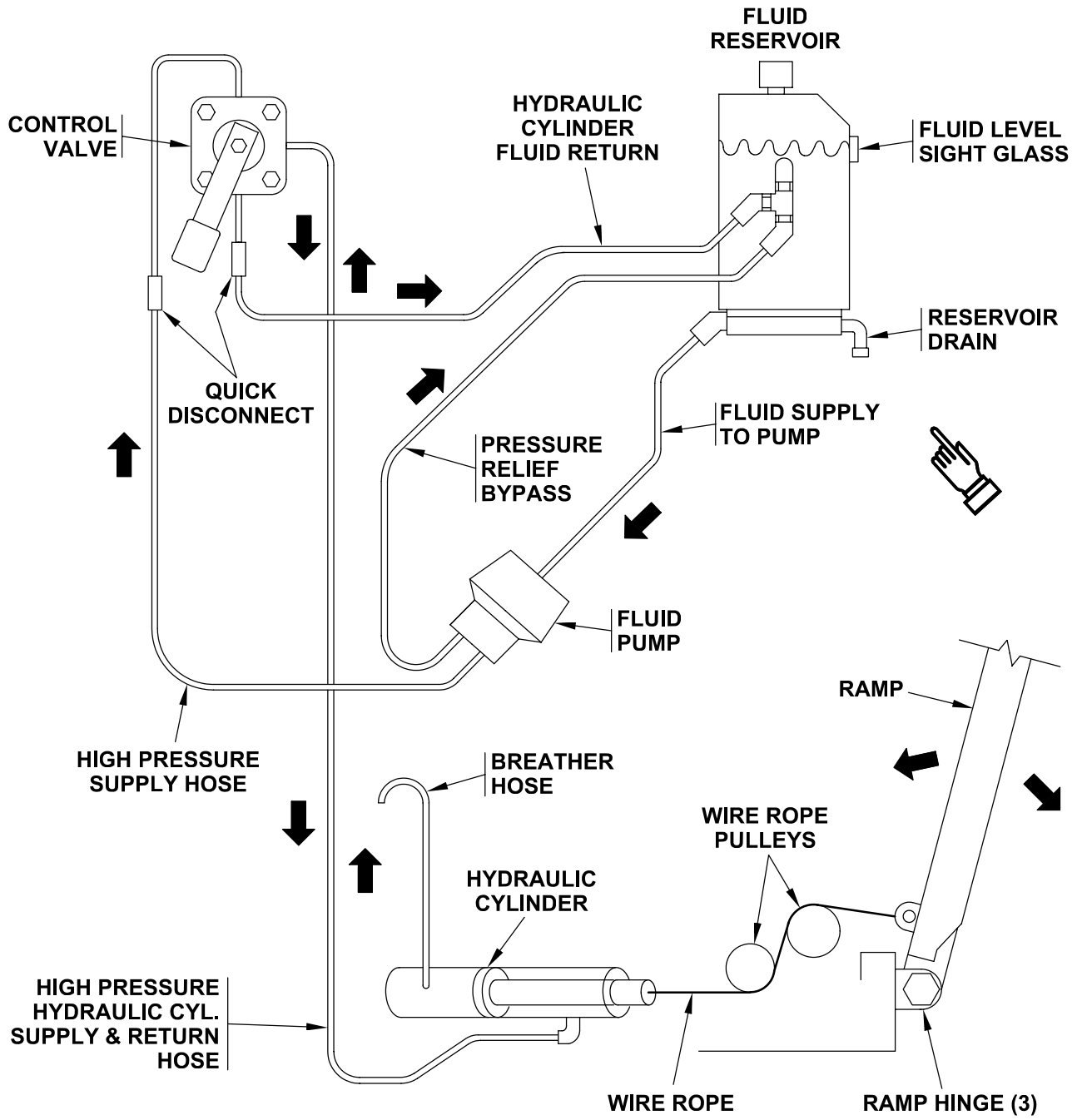
B6Y

1. Repair harness 12268797 circuit 450 or 450B (WP 0382 00).
2. Verify no faults found.



RAMP SCHEMATIC

0081 00



RAMP WILL NOT LOWER

0082 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your 10)

Carrier blocked (see your -10)

Rear floor plates removed (WP 0539 00)

Driver's power plant access panel removed (WP 0441 00)

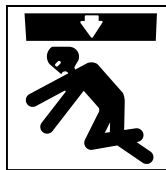
Personnel Required

Unit Mechanic

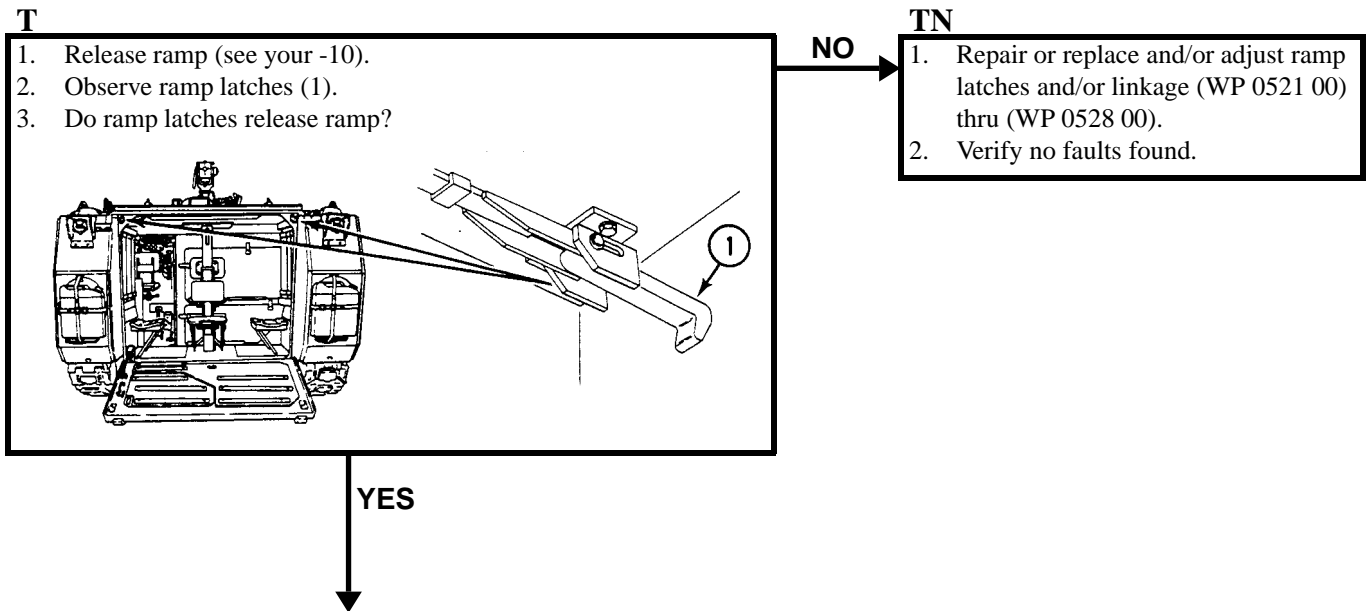
Helper (H)

Power plant rear access panels removed (WP 0439 00)

WARNING



Lowering ramp could injure personnel. Make sure no one is in ramp zone before you lower ramp. If tactical situation permits, sound horn before dropping ramp.



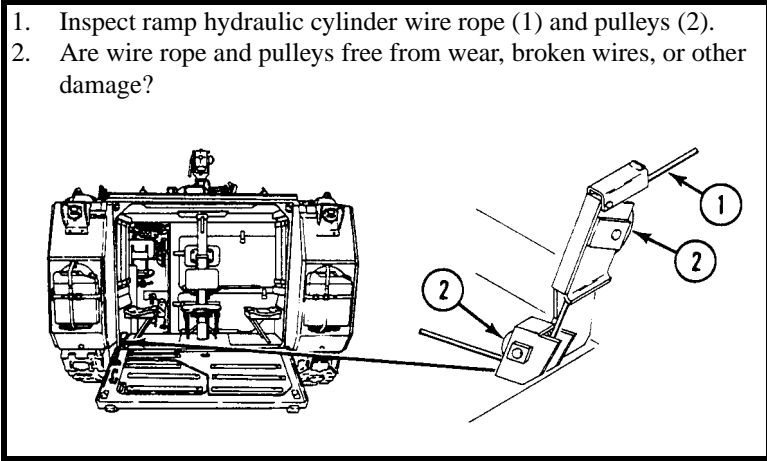
Y

1. Inspect ramp hydraulic cylinder wire rope (1) and pulleys (2).
2. Are wire rope and pulleys free from wear, broken wires, or other damage?

NO

YN

1. Replace wire rope and/or pulleys (WP 0657 00 or WP 0658 00).
2. Verify no faults found.



YES

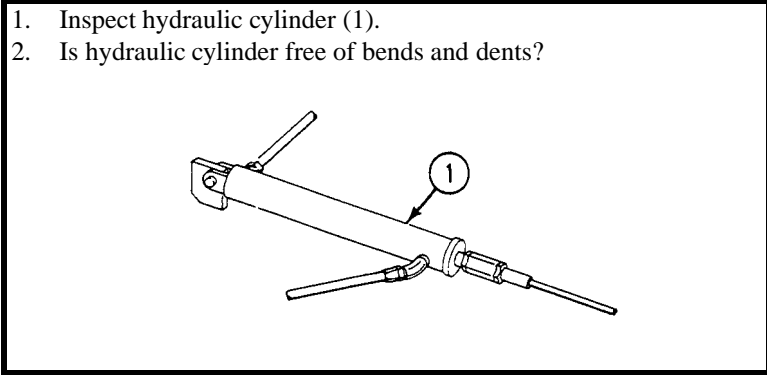
2Y

1. Inspect hydraulic cylinder (1).
2. Is hydraulic cylinder free of bends and dents?

NO

2YN

1. Replace hydraulic cylinder (WP 0656 00).
2. Verify no faults found.



YES

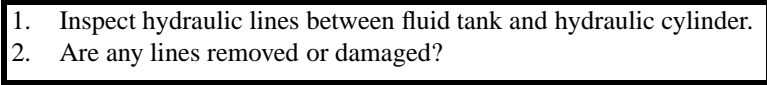
3Y

1. Inspect hydraulic lines between fluid tank and hydraulic cylinder.
2. Are any lines removed or damaged?

NO

3YN

1. Replace control valve (WP 0659 00 or WP 0661 00).
2. Verify no faults found.



YES

4Y

1. Repair/replace lines as necessary. (See Table of Contents).
2. Verify no faults found.

RAMP OPERATION IS SLOW OR SLUGGISH

0083 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Equipment Condition

Engine stopped (see your -10)

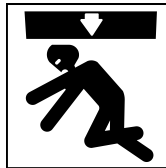
Carrier blocked (see your -10)

Power plant rear access panel removed (WP 0439 00)

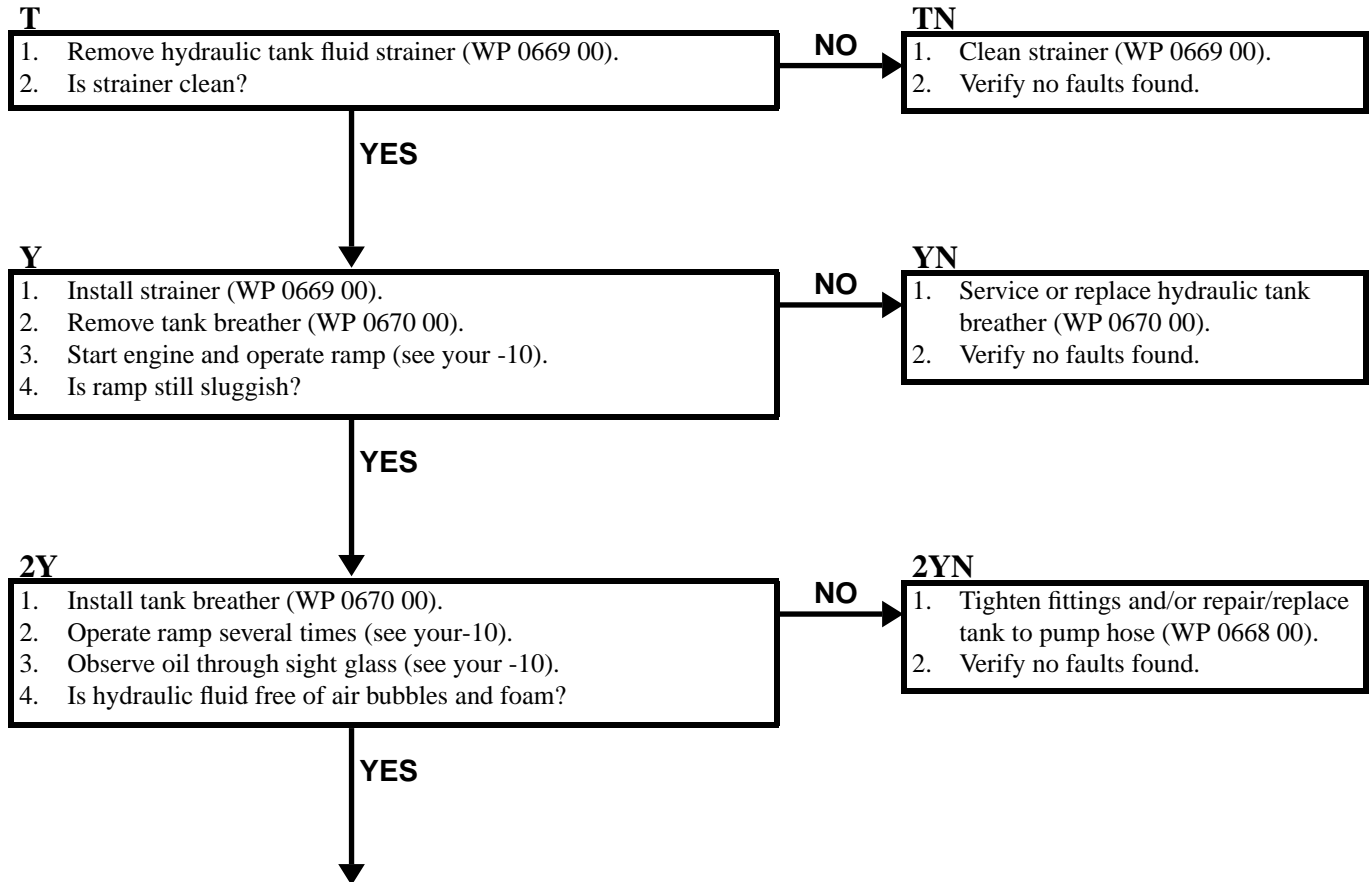
Personnel Required

Unit Mechanic

WARNING



Lowering ramp could injure personnel. Make sure no one is in ramp zone before you lower ramp. If tactical situation permits, sound horn before dropping ramp.



3Y

1. Go to: Ramp Will Not Raise or Free Falls (WP 0084 00).

RAMP WILL NOT RAISE OR FREE FALLS

0084 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Personnel Required

Mechanic

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Ramp lowered (TM 9-2350-277-10)

Power plant access door opened (TM 9-2350-277-10)

Driver's power plant access panel removed
(WP 0441 00)

Power plant rear access panels removed (WP 0439 00)

Rear floor plates removed (WP 0539 00, WP 0542 00,
WP 0543 00, WP 0544 00, or WP 0545 00)

WARNING



Lowering ramp could injure personnel. Make sure no one is in ramp zone before you lower ramp. If tactical situation permits, sound horn before dropping ramp.

T

1. Check ramp hydraulic fluid level in sight-glass. See TM 9-2350-277-10.
2. Is fluid level correct?

YES



NO

TN

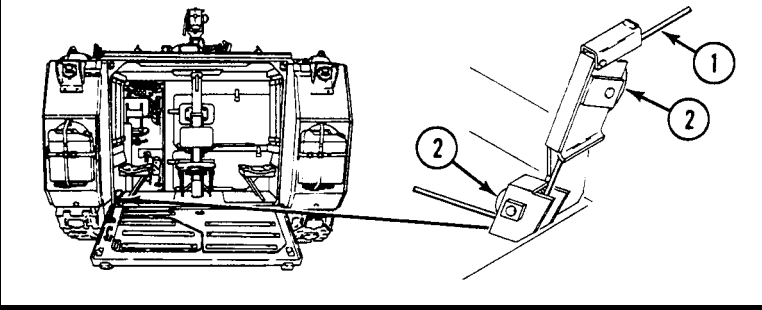
GO TO AY (PAGE 0084 00-3)

RAMP WILL NOT RAISE OR FREE FALLS — Continued

0084 00

Y

1. Inspect ramp wire rope (1) and pulleys (2).
2. Are pulleys and wire rope free of damage or frayed and broken wires?



NO

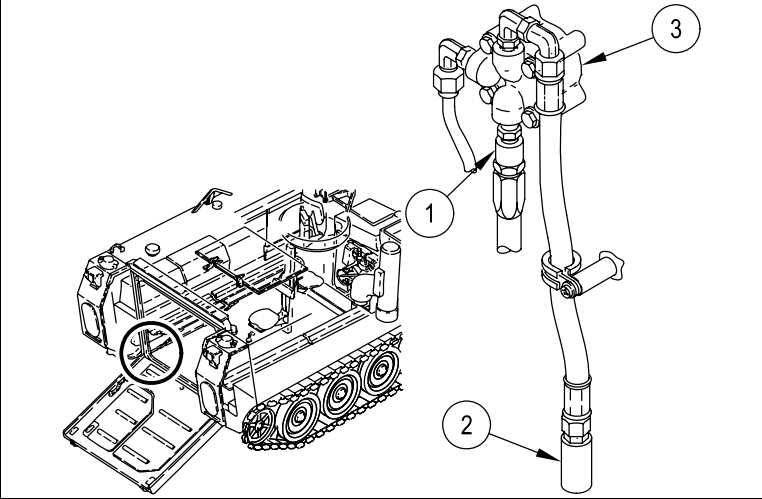
YN

1. Replace wire rope and/or pulleys (WP 0657 00) or (WP 0658 00).

YES

2Y

1. Inspect quick-disconnect fittings (1) and (2) on control valve (3), and inspect control valve (3).
2. Are fittings hooked up to control valve, and are all parts undamaged and free from leaks?



NO

2YN

1. Repair and/or replace parts as needed (WP 0659 00 thru WP 0668 00).
2. Verify no faults found.

YES

3Y

1. Has ramp control valve been replaced?

NO

3YN

1. Replace ramp control valve (WP 0660 00 or WP 0661 00).
2. Verify no faults found.

YES

4Y

1. Has hydraulic pump been replaced?

NO

4YN

1. Replace hydraulic pump (WP 0655 00).
2. Verify no faults found.

YES

5Y

1. Replace hydraulic cylinder (WP 0656 00).
2. Verify no faults found.

AY

1. Check all ramp hydraulic lines for damaged or loose fittings.
2. Are all lines free of leaks?

NO

AYN

1. Tighten any loose fittings and/or replace any damaged fluid lines (WP 0659 00 thru WP 0668 00).
2. Verify no faults found.

YES

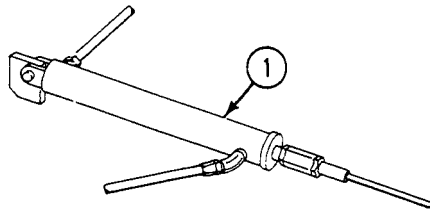
A2Y

1. Inspect ramp hydraulic cylinder (1) for leaks.
2. Is hydraulic cylinder free of leaks?

NO

A2YN

1. Replace hydraulic cylinder (WP 0656 00).
2. Verify no faults found.



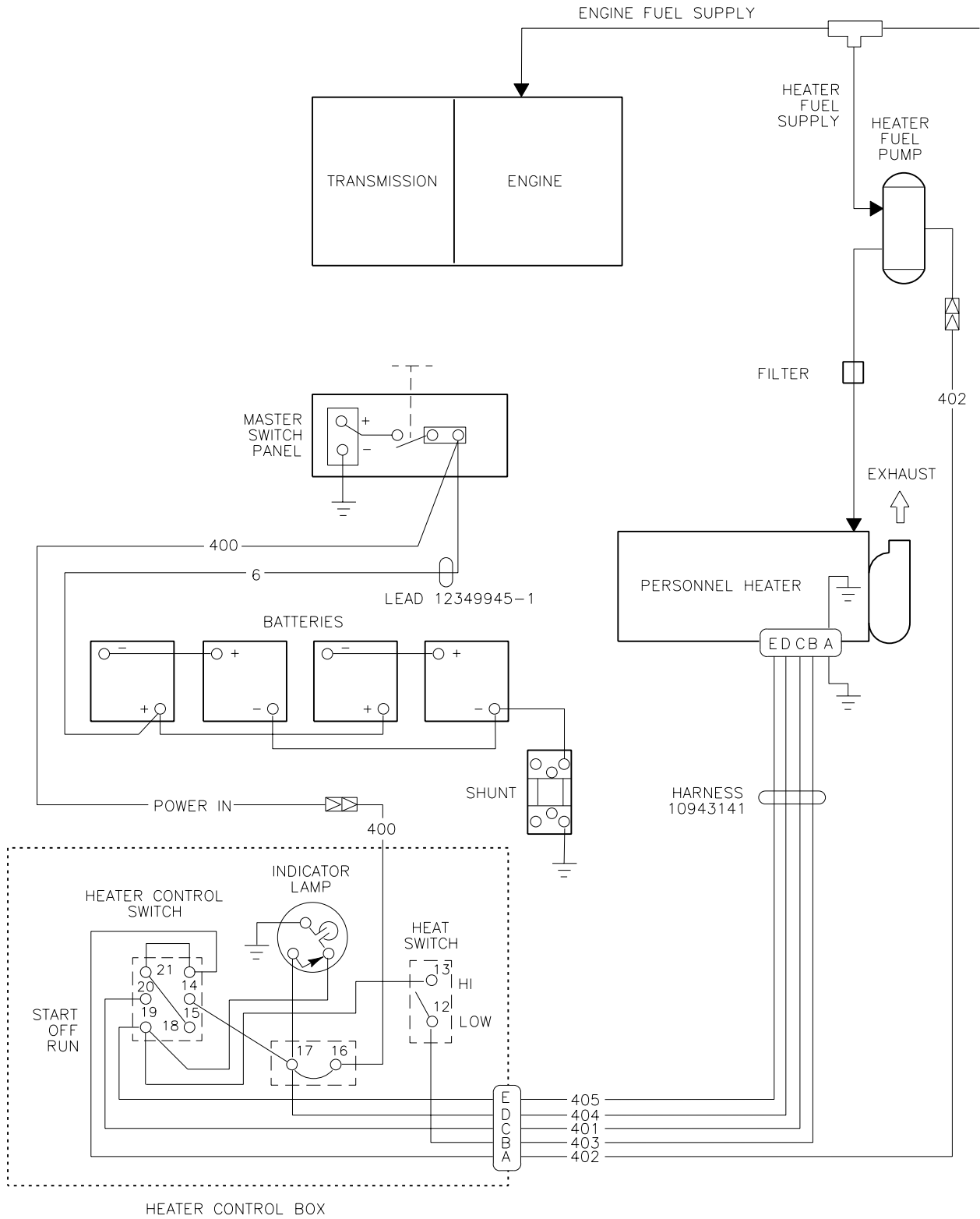
YES

A3Y

1. Refill hydraulic tank (WP 0155 00).
2. Verify no faults found.

PERSONNEL HEATER SCHEMATIC

0085 00



PERSONNEL HEATER MALFUNCTIONS

0086 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Personnel Required

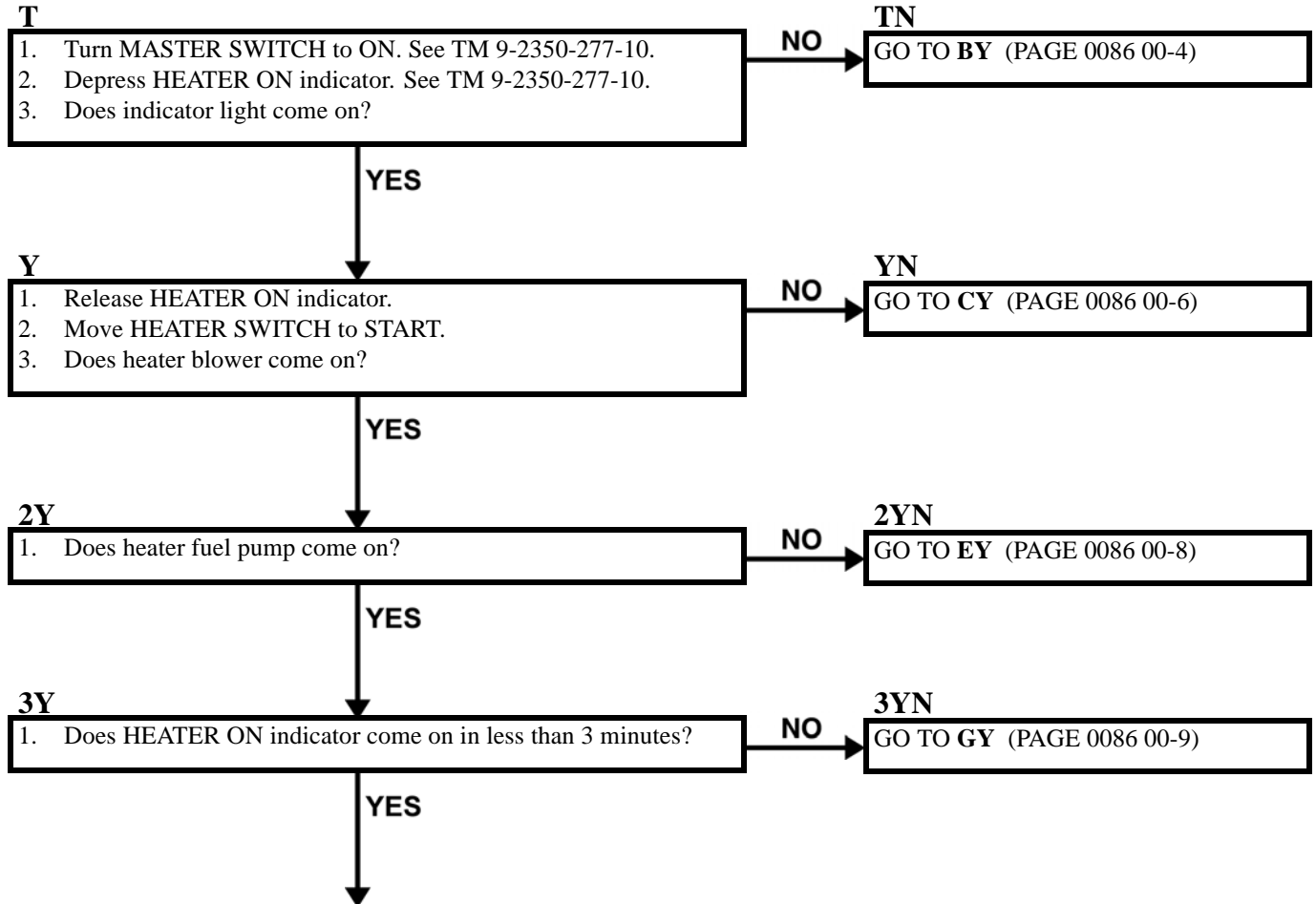
Mechanic

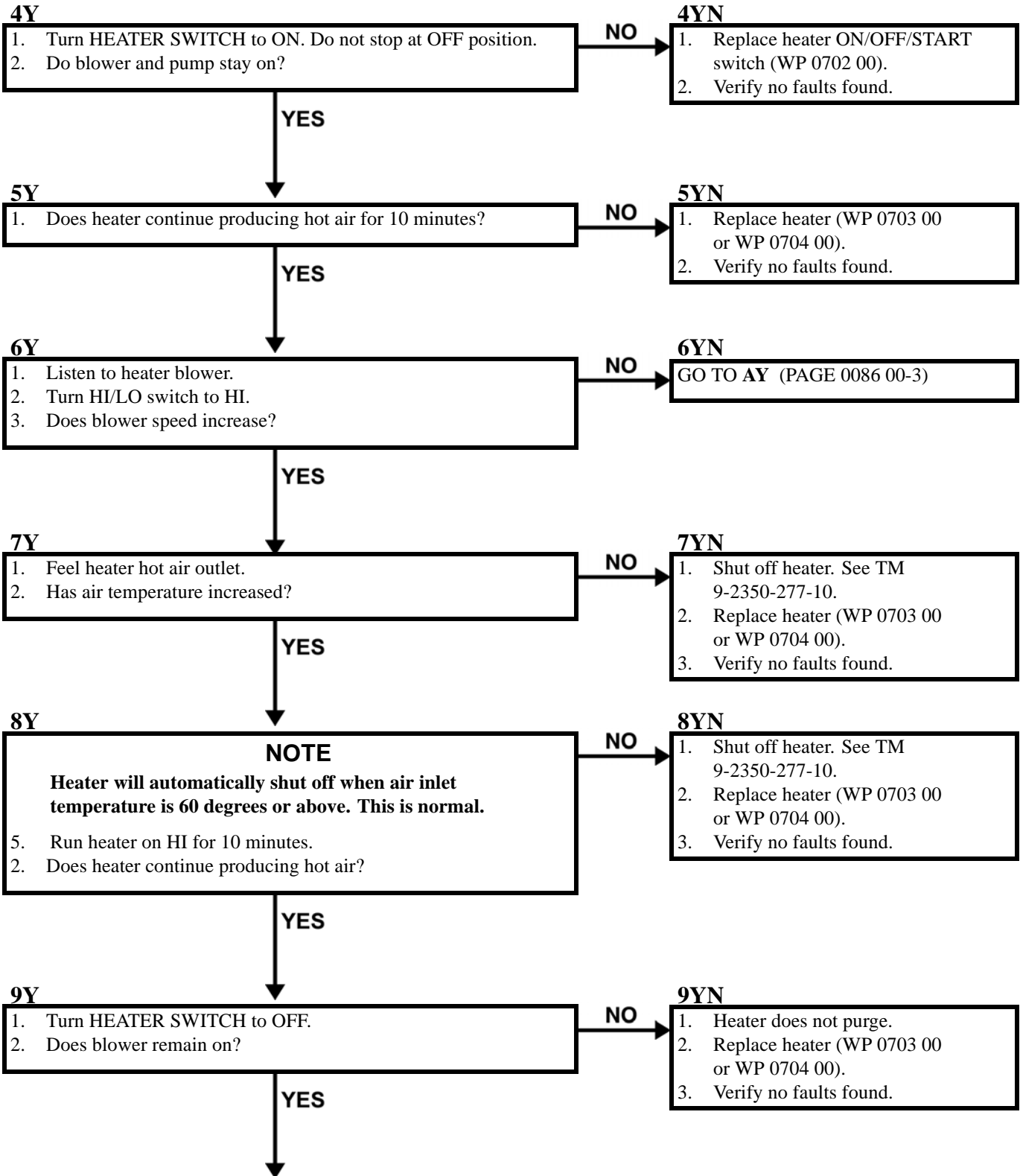
References

TM 9-2350-277-10

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Ramp lowered (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)
- Heater on LOW (TM 9-2350-277-10)
- Rear floor plates removed (WP 0539 00, WP 0542 00, WP 0543 00, WP 0544 00, or WP 0545 00)





10Y

1. Listen to heater until blower shuts off.
2. Does blower shut off in less than 5 minutes?

NO

10YN

1. Replace heater (WP 0703 00 or WP 0704 00).
2. Verify no faults found.

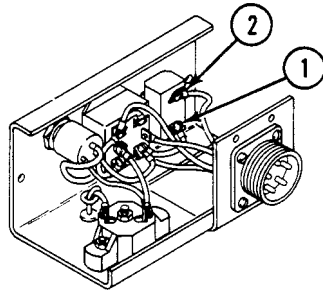
YES

11Y

1. Heater is operating properly.
2. No faults found.

AY

1. Remove heater control box (WP 0701 00).
2. Check continuity on HI/LO switch between terminals 12 (1) and 13 (2).
3. Does multimeter read 0 ohms?



NO

AYN

1. Replace heater HI/LO switch (WP 0702 00).
2. Verify no faults found.

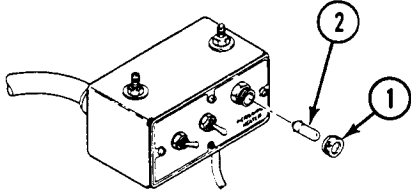
YES

A2Y

1. Repair lead between heater switch and jack or heater switch and ON/OFF/START switch (WP 0382 00).
2. Verify no faults found.

BY

1. Remove heater indicator cover lens (1) and bulb (2).
2. Check continuity between bulb center contact and base.
3. Is there continuity?



NO

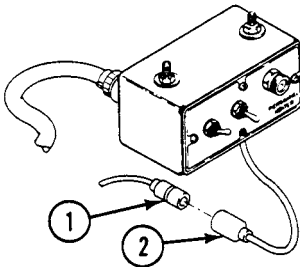
BYN

1. Replace heater bulb (WP 0702 00).
2. Verify no faults found.

YES

B2Y

1. Remove harness 12268797 circuit 400 plug (1) from control box jack (2).
2. Measure voltage between harness 12268797 circuit 400 plug (1) pin and ground.
3. Does multimeter read 17 volts or more?



NO

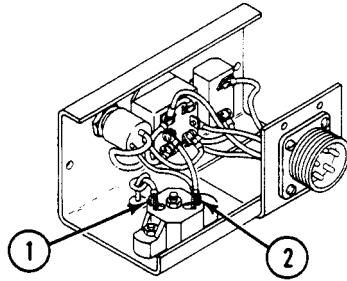
B2YN

1. Repair harness 12268797 circuit 400 between MASTER SWITCH and heater control box (WP 0382 00).
2. Verify no faults found.

YES

B3Y

1. Remove heater control box (WP 0701 00).
2. Check continuity between circuit breaker terminals 16 (1) and 17 (2).
3. Does multimeter read 0 ohms?



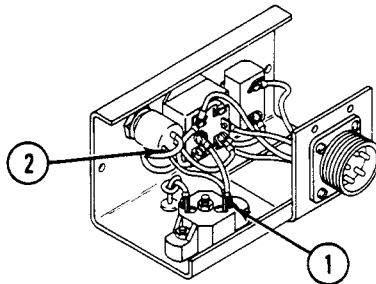
YES

B3YN

1. Replace heater circuit breaker (WP 0702 00).
2. Verify no faults found.

B4Y

1. Check continuity between lead ends, from circuit breaker terminal 17 (1) to indicator light terminal 3 (2).
2. Does multimeter read 0 ohms?



YES

B4YN

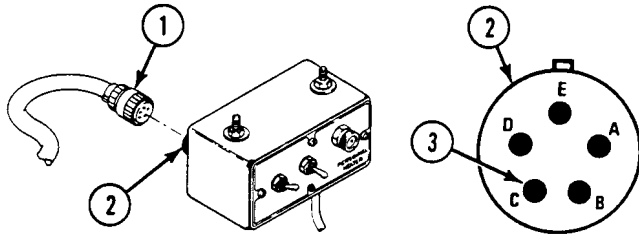
1. Repair/replace faulty lead (WP 0382 00 or WP 0702 00).
2. Verify no faults found.

B5Y

1. Replace indicator light assembly (WP 0702 00).
2. Verify no faults found.

CY

1. Remove harness 10942956 plug (1) from heater control box jack (2).
2. Measure voltage between heater control box jack (2), pin C (3), and ground, with HEATER switch on START.
3. Does multimeter read 17 volts or more?



NO

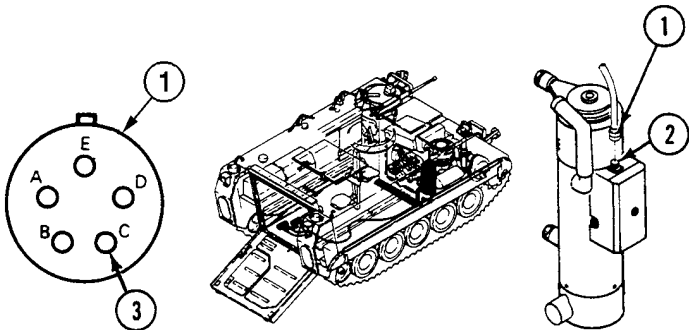
CYN

GO TO **DY** (PAGE 0086 00-7)

YES

C2Y

1. Install harness 10942956 plug on heater control box jack.
2. Remove harness 10942956 plug (1) from heater jack (2).
3. Measure voltage between harness 10942956 plug (1), pin C (3), and ground, with HEATER switch on START.
4. Does multimeter read 17 volts or more?



NO

C2YN

1. Replace heater wiring harness.
2. Verify no faults found.

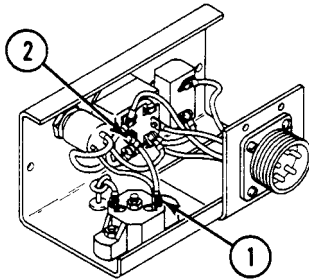
YES

C3Y

1. Replace heater (WP 0703 00 or WP 0704 00).
2. Verify no faults found.

DY

1. Remove heater control box (WP 0701 00).
2. Check continuity between lead ends, from circuit breaker terminal 17 (1) and ON/OFF/START switch terminal 15 (2).
3. Does multimeter read 0 ohms?



NO

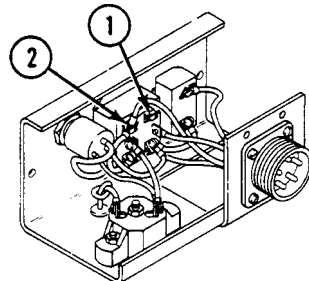
DYN

1. Repair faulty lead (WP 0382 00).
2. Verify no faults found.

YES

D2Y

1. Check continuity between lead ends from ON/OFF/START switch terminals 21 (1) and 14 (2).
2. Does multimeter read 0 ohms?



NO

D2YN

1. Repair heater switch jumper lead between terminal 21 and 14 (WP 0382 00).
2. Verify no faults found.

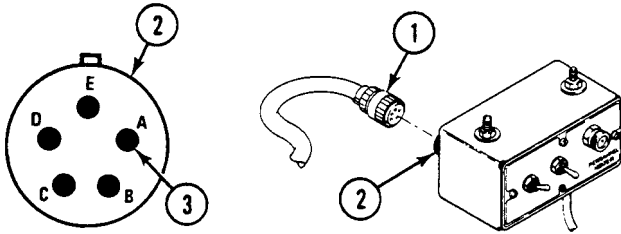
YES

D3Y

1. Replace heater ON/OFF/START switch (WP 0702 00).
2. Verify no faults found.

EY

1. Remove harness 10942956 plug (1) from heater control jack (2).
2. Measure voltage between heater control jack (2), pin A (3), and ground, with HEATER switch on START.
3. Does multimeter read 17 volts or more?



NO

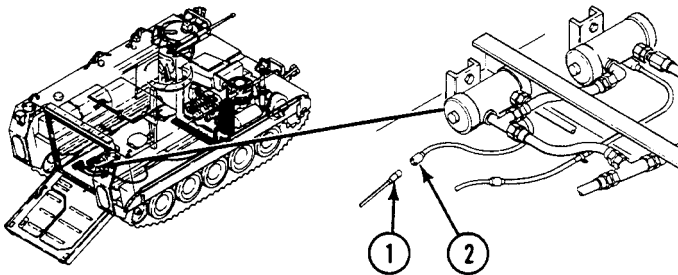
EYN

GO TO FY (PAGE 0086 00-9)

YES

E2Y

1. Install harness 10942956 on heater control box jack.
2. Remove harness 10942956 plug (1) from heater fuel pump jack (2).
3. Measure voltage between harness 10942956, plug (1) pin, and ground, with HEATER switch on START.
4. Does multimeter read 17 volts or more?



NO

E2YN

1. Replace harness 10942956 circuit 402.
2. Verify no faults found.

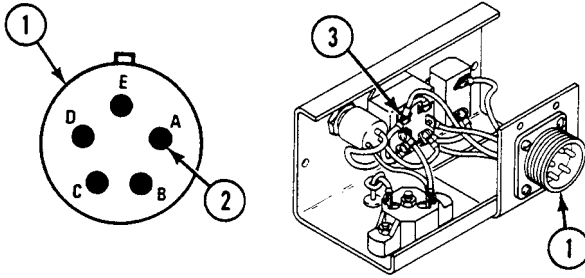
YES

E3Y

1. Replace heater fuel pump (WP 0695 00, WP 0696 00, or WP 0697 00).
2. Verify no faults found.

FY

1. Remove heater control box (WP 0702 00).
2. Check continuity between lead ends of heater output jack (1), pin A (2), and ON/OFF/START switch terminal 14 (3).
3. Does multimeter read 0 ohms?



NO

FYN

1. Replace faulty lead (WP 0702 00).
2. Verify no faults found.

YES

F2Y

1. Replace heater ON/OFF/START switch (WP 0702 00).
2. Verify no faults found.

GY

1. Is heater exhaust cold?

NO

GYN

1. Replace heater (WP 0703 00 or WP 0704 00).
2. Verify no faults found.

YES

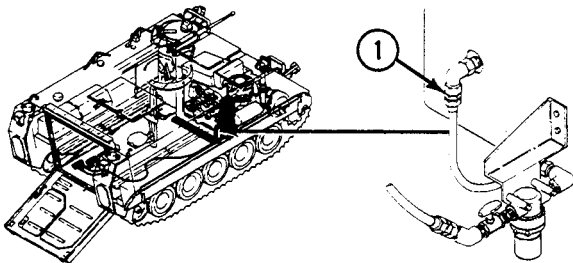
G2Y

1. Loosen fuel inlet line (1) to heater with heater switch on START.
2. Does fuel fail to flow out of loosened fitting?

NO

G2YN

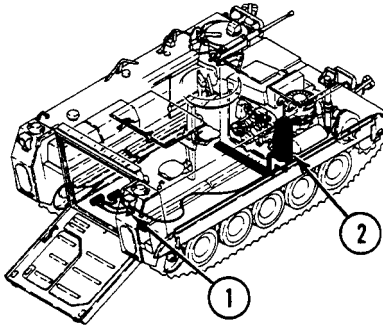
1. Replace heater (WP 0703 00 or WP 0704 00).
2. Verify no faults found.



YES

G3Y

1. Inspect fuel lines between tee valve (1) and heater (2).
2. Are all lines free from kinks, restrictions, or other damage?



NO

G3YN

1. Replace heater fuel lines as required (WP 0685 00).
2. Verify no faults found.

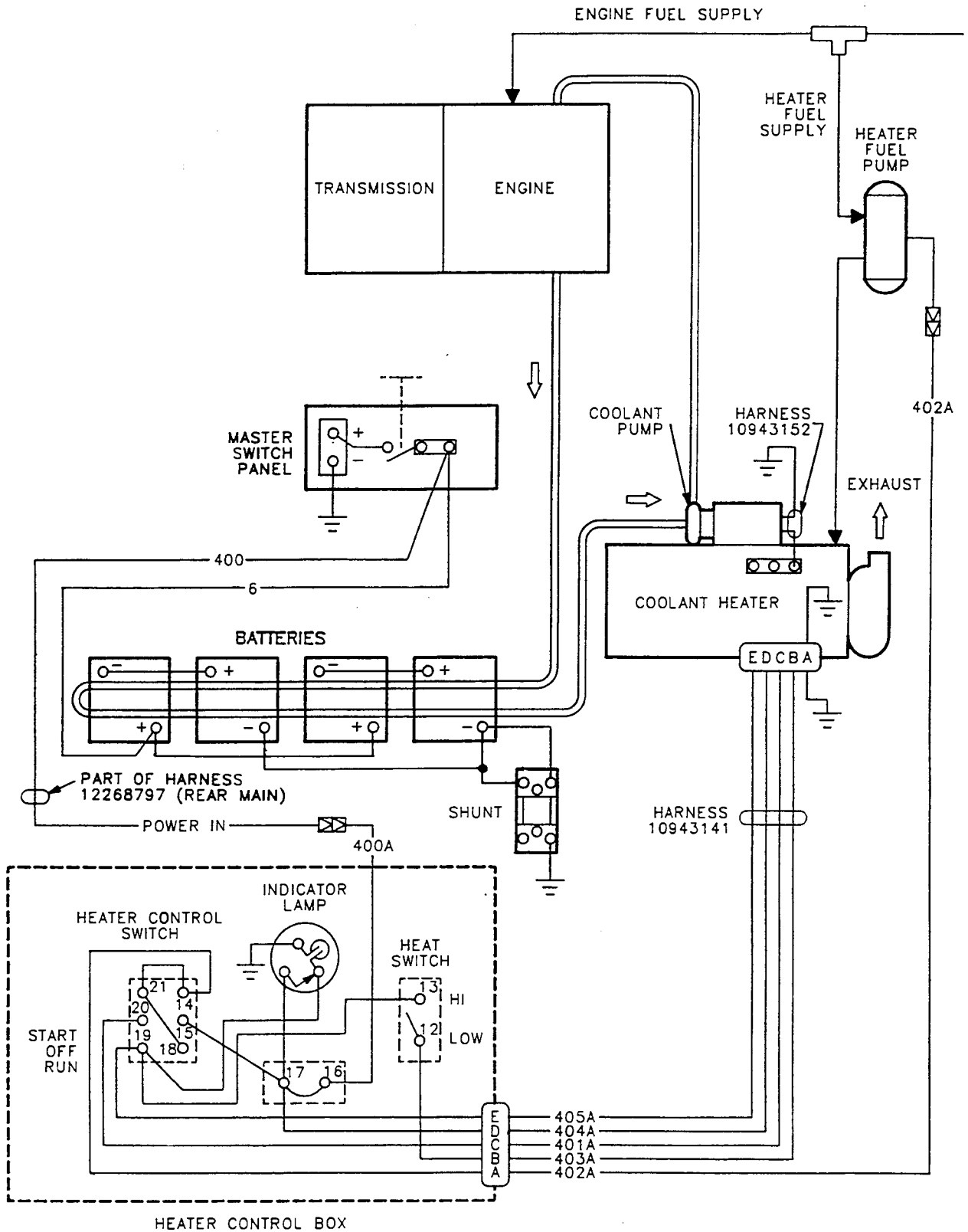
YES

G4Y

1. Replace heater fuel pump (WP 0695 00, WP 0696 00, or WP 0697 00).
2. Verify no faults found.

COOLANT HEATER SCHEMATIC

0087 00



COOLANT HEATER MALFUNCTIONS

0089 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- General Mechanic's Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Personnel Required

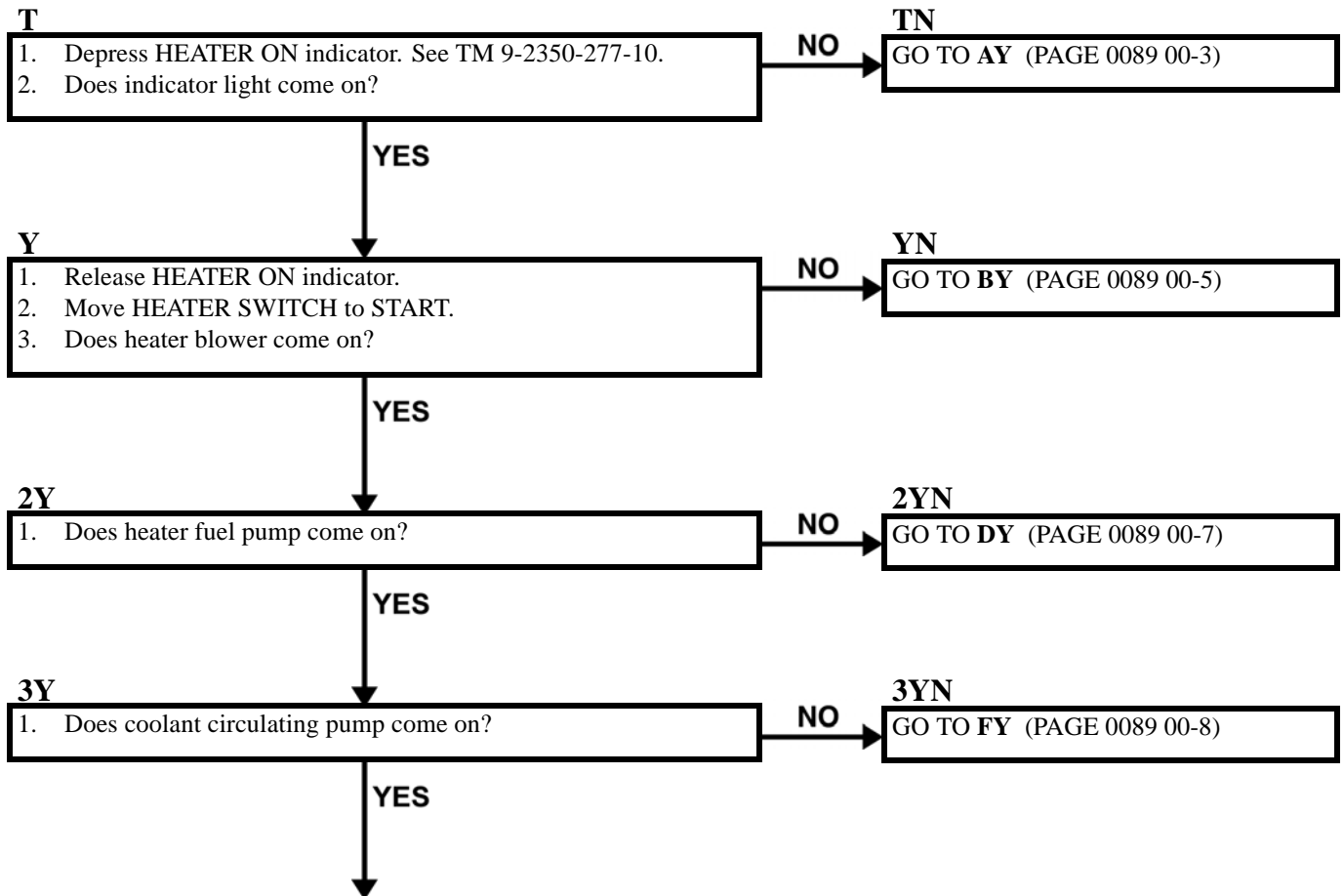
Mechanic

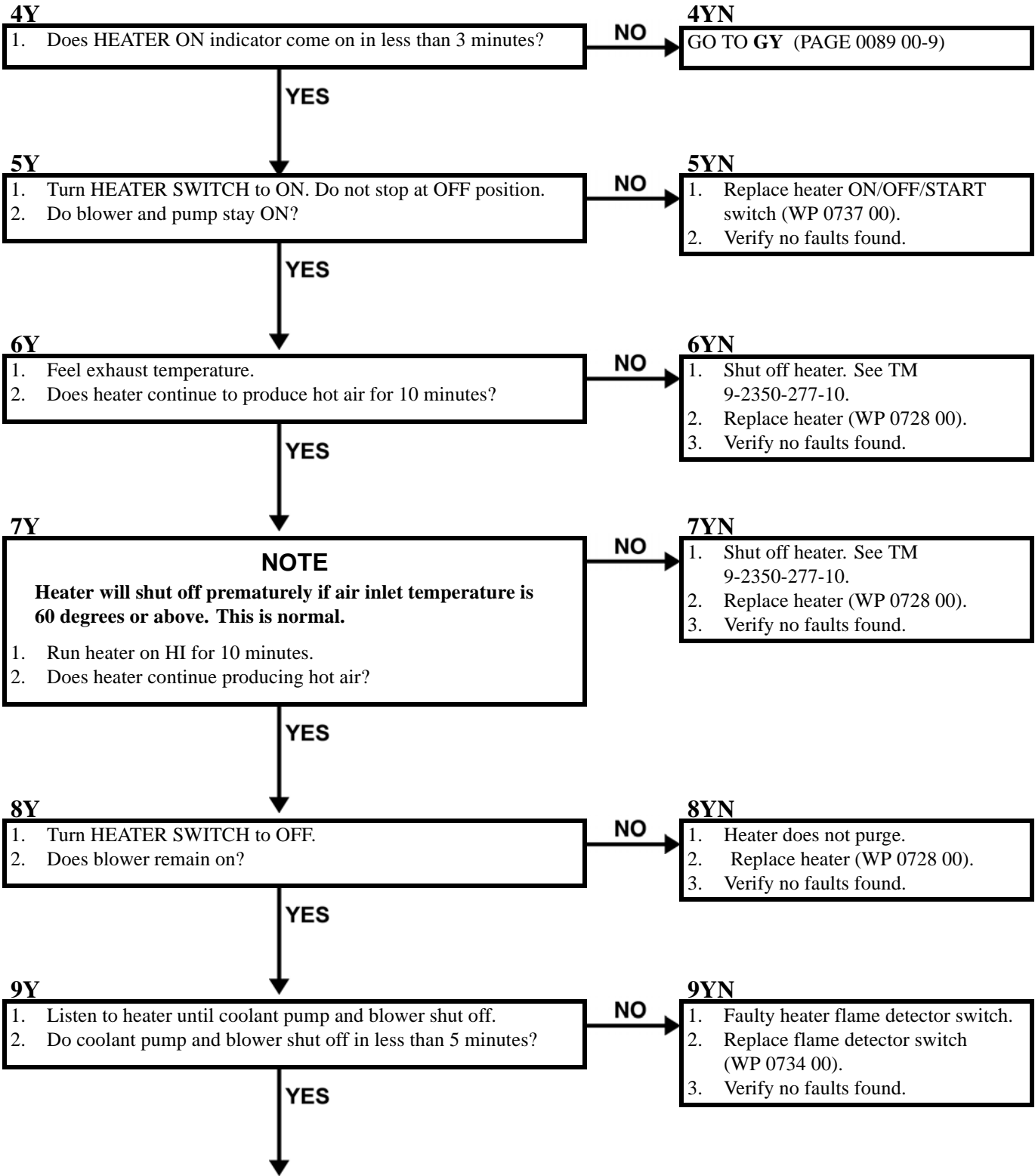
References

TM 9-2350-277-10

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)
- Ramp lowered (TM 9-2350-277-10)
- Heater on HI (TM 9-2350-277-10)
- Rear floor plates removed (WP 0539 00, WP 0542 00, WP 0543 00, WP 0544 00, or WP 0545 00)
- Engine cold



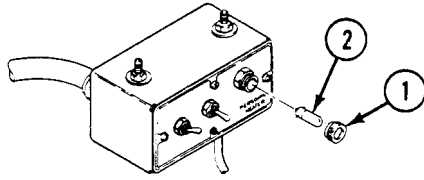


10Y

1. Replace heater (WP 0728 00).
2. Verify no faults found.

AY

1. Remove heater indicator cover lens (1) and bulb (2).
2. Measure resistance between bulb center contact and base.
3. Does multimeter read less than 100 ohms?



NO

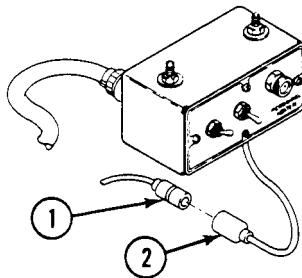
AYN

1. Replace heater bulb (WP 0702 00).
2. Verify no faults found.

YES

A2Y

1. Remove harness 12268797 circuit 400 plug (1) from control box jack (2).
2. Measure voltage between harness 12268797 circuit 400 plug (1) pin and ground.
3. Does multimeter read 17 volts or more?



NO

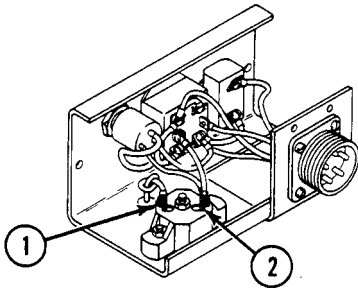
A2YN

1. Repair harness 12268797 circuit 400 between MASTER SWITCH and heater control box (WP 0382 00).
2. Verify no faults found.

YES

A3Y

1. Remove heater control box (WP 0736 00).
2. Measure resistance between lead ends from circuit breaker terminals 16 (1) and 17 (2).
3. Does multimeter read 0 ohms?



NO

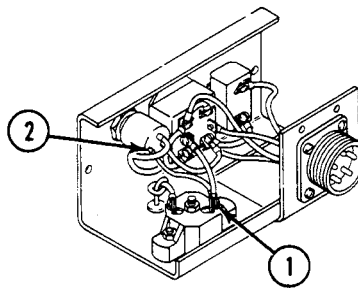
A3YN

1. Replace heater circuit breaker (WP 0737 00).
2. Verify no faults found.

YES

A4Y

1. Measure resistance between lead ends from circuit breaker terminal 17 (1) to indicator light terminal 3 (2).
2. Does multimeter read 0 ohms?



NO

A4YN

1. Repair/replace faulty lead (WP 0382 00 or WP 0737 00).
2. Verify no faults found.

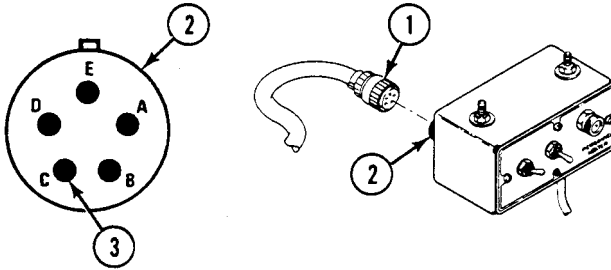
YES

A5Y

1. Replace indicator light assembly (WP 0737 00).
2. Verify no faults found.

BY

1. Remove harness 10943141 plug (1) from heater control box jack (2).
2. Measure voltage between heater control box jack (2) pin C (3) and ground with HEATER switch on START.
3. Does multimeter read at 17 volts or more?



NO

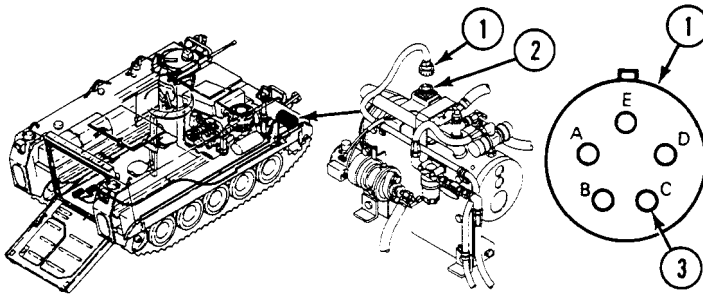
BYN

GO TO CY (PAGE 0089 00-6)

YES

B2Y

1. Install harness 10943141 plug on heater control box jack.
2. Remove harness 10943141 plug (1) from heater jack (2).
3. Measure voltage between harness 10943141 plug (1) pin C (3) and ground with HEATER switch on START.
4. Does multimeter read at least 17 volts?



NO

B2YN

1. Replace faulty harness 10943141 (WP 0382 00).
2. Verify no faults found.

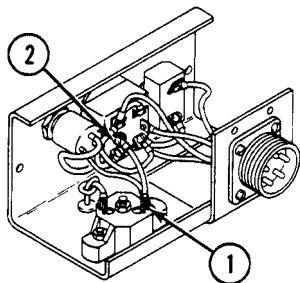
YES

B3Y

1. Replace heater (WP 0728 00).
2. Notify supervisor.

CY

1. Remove heater control box (WP 0736 00).
2. Measure resistance between lead ends from circuit breaker terminal 17 (1) and ON/OFF/START switch terminal 15 (2) lead ends.
3. Does multimeter read 0 ohms?



NO

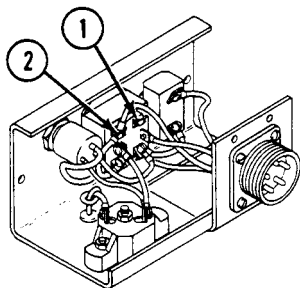
CYN

1. Repair faulty lead (WP 0382 00).
2. Verify no faults found.

YES

C2Y

1. Measure resistance between lead ends from ON/OFF/START switch terminals 21 (1) and 14 (2).
2. Does multimeter read 0 ohms?



NO

C2YN

1. Repair heater switch jumper lead between terminal 21 and 14 (WP 0382 00).
2. Verify no faults found.

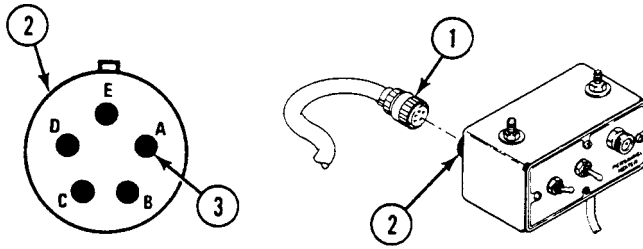
YES

C3Y

1. Replace heater ON/OFF/START switch (WP 0737 00).
2. Verify no faults found.

DY

1. Remove harness 10943141 plug (1) from heater control jack (2).
2. Measure voltage between heater control jack (2) pin A (3) and ground with HEATER switch on START.
3. Does multimeter read 17 volts or more?



NO

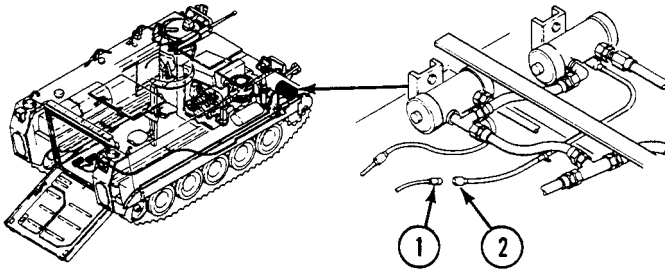
DYN

1. GO TO EY (PAGE 0089 00-8)

YES

D2Y

1. Install harness 10943141 on heater control box jack.
2. Remove harness 10943141 plug (1) from heater fuel pump jack (2).
3. Measure voltage between harness 10943141 plug (1) pin and ground with HEATER switch on START.
4. Does multimeter read 17 volts or more?



NO

D2YN

1. Replace harness 10943141 circuit 402 (WP 0382 00).
2. Verify no faults found.

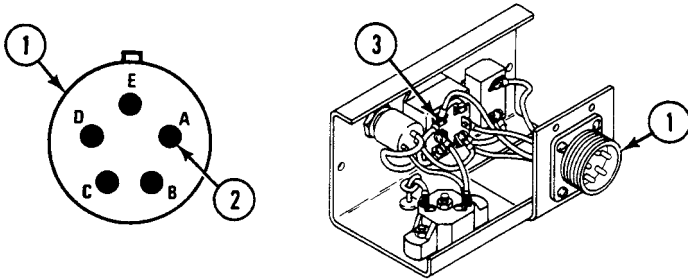
YES

D3Y

1. Replace coolant heater fuel pump (WP 0731 00).
2. Verify no faults found.

EY

1. Remove heater control box (WP 0736 00).
2. Measure resistance between lead ends of heater output jack (1) pin A (2) and ON/OFF/START switch terminal 14 (3).
3. Does multimeter read 0 ohms?



NO

EYN

1. Replace faulty lead (WP 0737 00).
2. Verify no faults found.

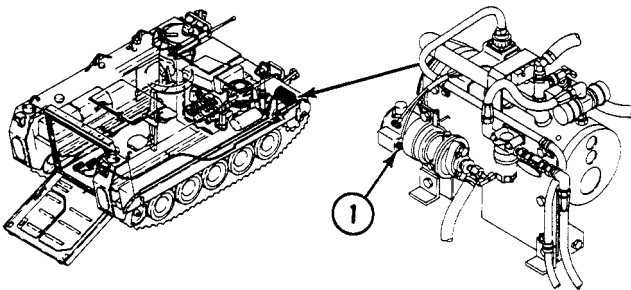
YES

E2Y

1. Replace heater ON/OFF/START switch (WP 0737 00).
2. Verify no faults found.

FY

1. Measure voltage between harness 10943152 circuit 402B terminal (1) on coolant pump and ground (switch on start).
2. Does multimeter read less than 17 volts?



NO

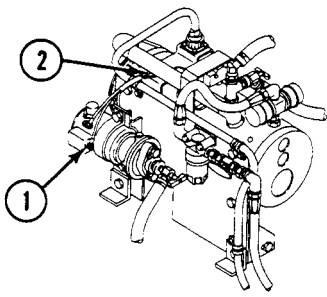
FYN

1. Replace coolant heater pump (WP 0731 00).
2. Verify no faults found.

YES

F2Y

1. Measure voltage between harness 10943152 circuit 402B (1) on terminal strip (2) and ground (switch on start).
2. Does multimeter read less than 17 volts?



NO

F2YN

1. Replace harness 10943152 (WP 0382 00).
2. Verify no faults found.

YES

F3Y

1. Faulty heater wiring. Beyond unit maintenance repair.
2. Notify supervisor.

GY

1. Is heater exhaust cold?

NO

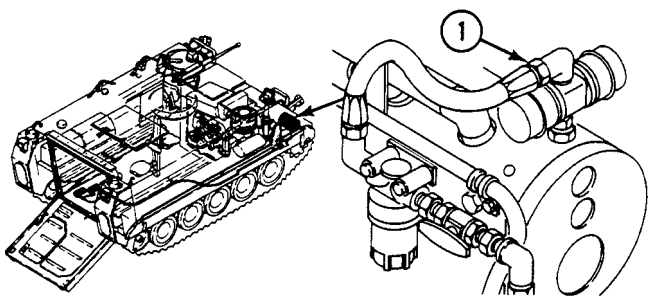
GYN

1. Replace flame detector switch (WP 0734 00).
2. Verify no faults found.

YES

G2Y

1. Loosen fuel inlet line (1) to heater with heater switch on start.
2. Does fuel fail to flow out of loosened fitting?



NO

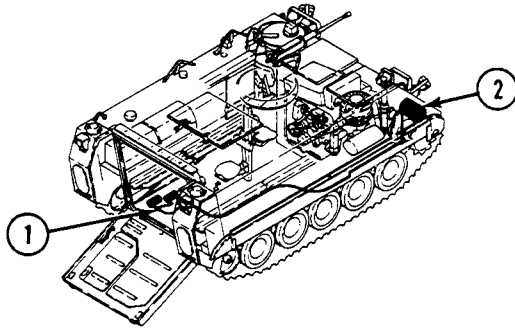
G2YN

1. Replace heater (WP 0728 00).
2. Verify no faults found.

YES

G3Y

1. Inspect fuel lines between tee valve (1) and heater (2).
2. Are all lines free from kinks, restrictions, or other damage?



NO

G3YN

1. Replace heater fuel lines as required (WP 0708 00 thru WP 0737 00).
2. Verify no faults found.

YES

G4Y

1. Replace coolant heater fuel pump (WP 0723 00).
2. Verify no faults found.

**POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE
(M1068A3 ONLY)**

0090 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Materials/Parts

Lockwasher (10)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Battery box cover removed (see your -10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

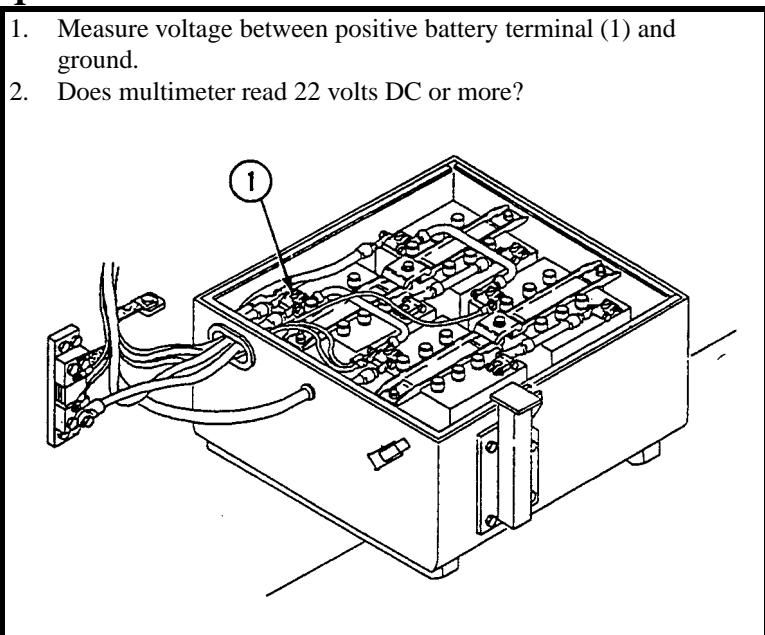
BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

T

1. Measure voltage between positive battery terminal (1) and ground.
2. Does multimeter read 22 volts DC or more?



NO

TN

1. Service carrier batteries (see your -10).
2. Verify no faults found.

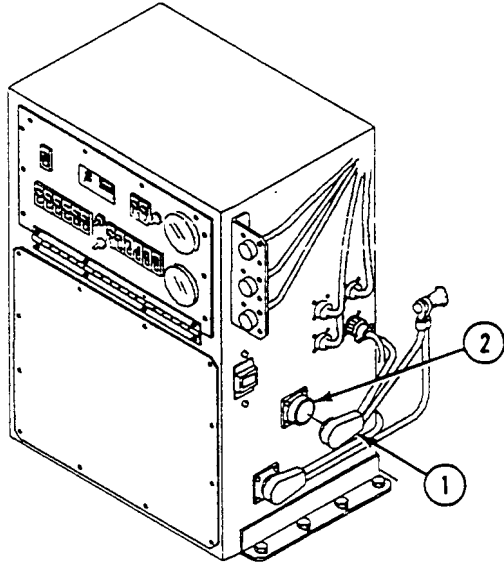
YES

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

Y

1. Remove cable W4 plug P1 (1) from Power Control Enclosure jack J25 (2).
2. Measure voltage between center of P1 (1) and ground.
3. Does multimeter read 22 volts DC or more?



YES



NO

YN

1. Replace cable W4 (WP 0838 00).
2. Verify no faults found.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

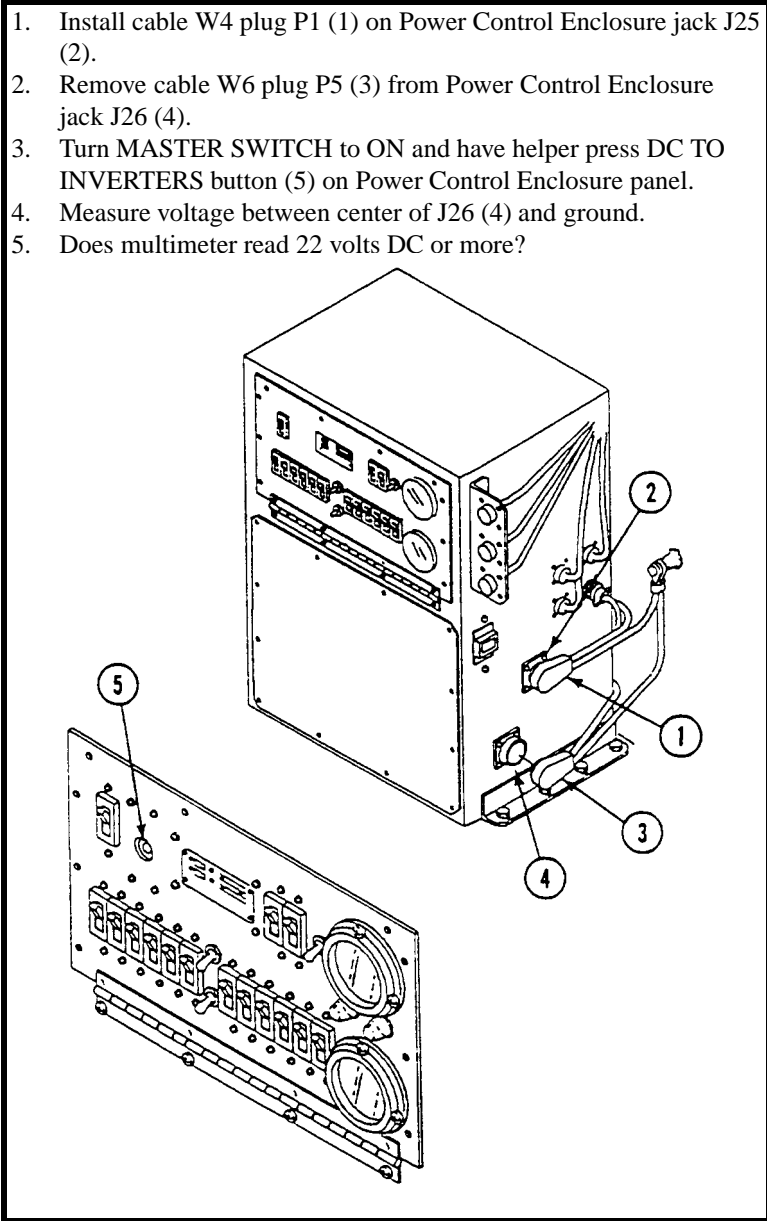
0090 00

2Y

1. Install cable W4 plug P1 (1) on Power Control Enclosure jack J25 (2).
2. Remove cable W6 plug P5 (3) from Power Control Enclosure jack J26 (4).
3. Turn MASTER SWITCH to ON and have helper press DC TO INVERTERS button (5) on Power Control Enclosure panel.
4. Measure voltage between center of J26 (4) and ground.
5. Does multimeter read 22 volts DC or more?

NO

GO TO AY (PAGE 0090 00-6)



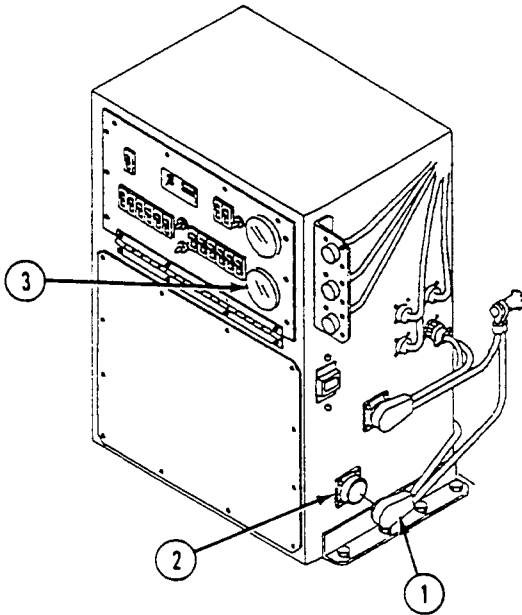
YES

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

3Y

1. Set MASTER SWITCH to OFF.
2. Install cable W6 plug P5 (1) on Power Control Enclosure jack J26 (2).
3. Set MASTER SWITCH to ON.
4. Does voltage on DC VOLTS meter (3) on Power Control Enclosure panel read the same as voltage at carrier batteries?



NO

GO TO BY (PAGE 0090 00-11)

YES

4Y

1. Verify no faults found.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

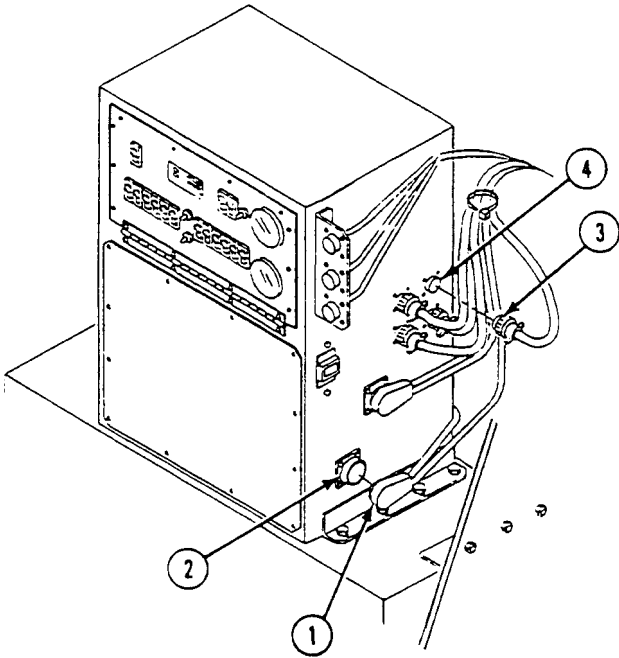
0090 00

AY

1. Set MASTER SWITCH to OFF.
2. Install cable W6 plug P5 (1) on Power Control Enclosure jack J26 (2).
3. Remove cable W38 plug P7 (3) from Power Control Enclosure jack J28 (4).
4. Set MASTER SWITCH to ON.
5. Measure voltage between center of P7 (3) and ground.
6. Does multimeter read 22 volts DC or more?

NO

GO TO CY (PAGE 0090 00-12)



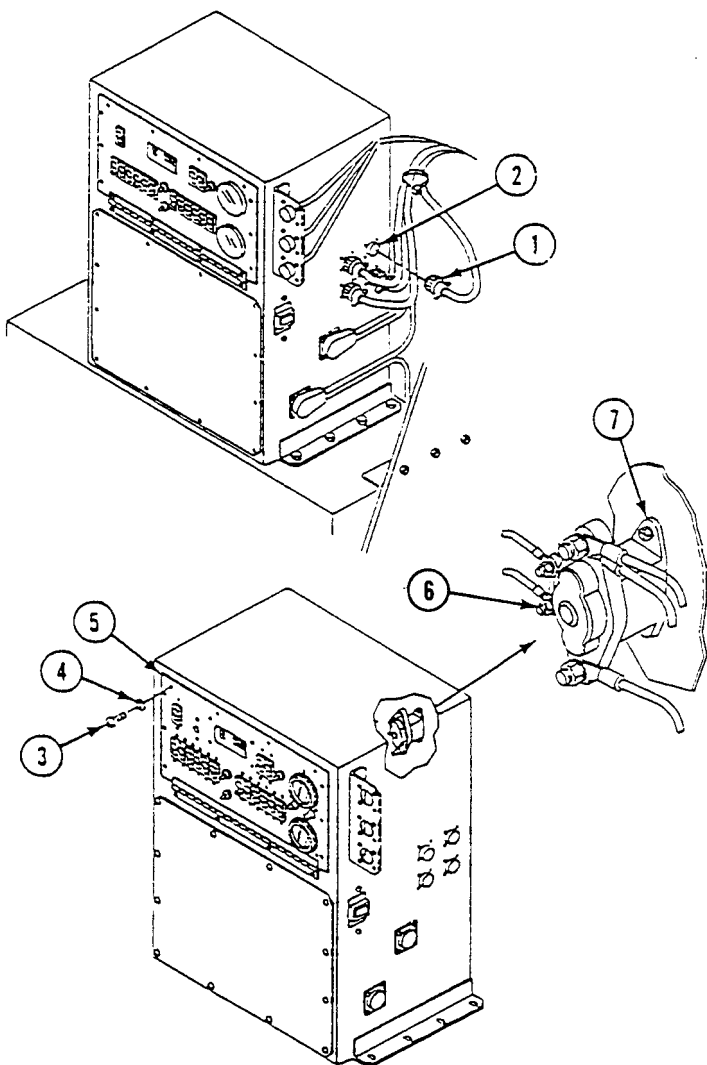
YES

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

A2Y

1. Set MASTER SWITCH to OFF.
2. Install cable W38 plug P7 (1) on Power Control Enclosure jack J28 (2).
3. Remove ten screws (3) and lockwashers (4), and lower faceplate (5). Discard lockwashers.
4. Set MASTER SWITCH to ON.
5. Measure voltage between terminal X1 (6) of relay K6 (7) and ground.
6. Does multimeter read 22 volts DC or more?



NO

A2YN

1. Replace circuit 44A lead (WP 0829 00).
2. Verify no faults found.

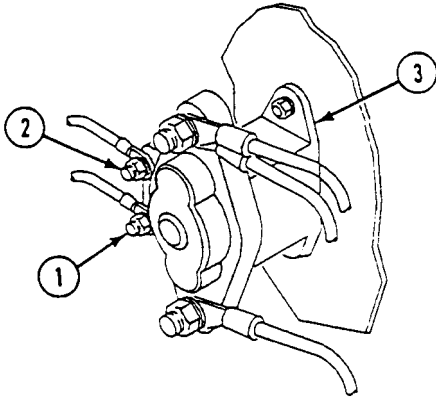
YES

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

A3Y

1. Measure voltage between terminals X1 (1) and X2 (2) of relay K6 (3).
2. Does multimeter read 22 volts DC or more?



NO

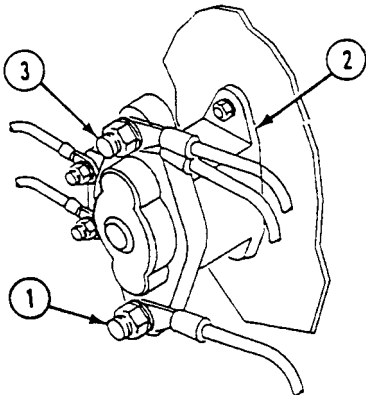
A3YN

1. Faulty relay K6 in Power Control Enclosure. Beyond unit maintenance repair.
2. Notify supervisor.

YES

A4Y

1. Measure voltage between terminal A1 (1) of relay K6 (2) and ground.
2. Repeat measurement between terminal A2 (3) and ground.
3. Does multimeter read 22 volts DC or more for both measurements?



NO

A4YN

1. Faulty relay K6 in Power Control Enclosure. Beyond unit maintenance repair.
2. Notify supervisor.

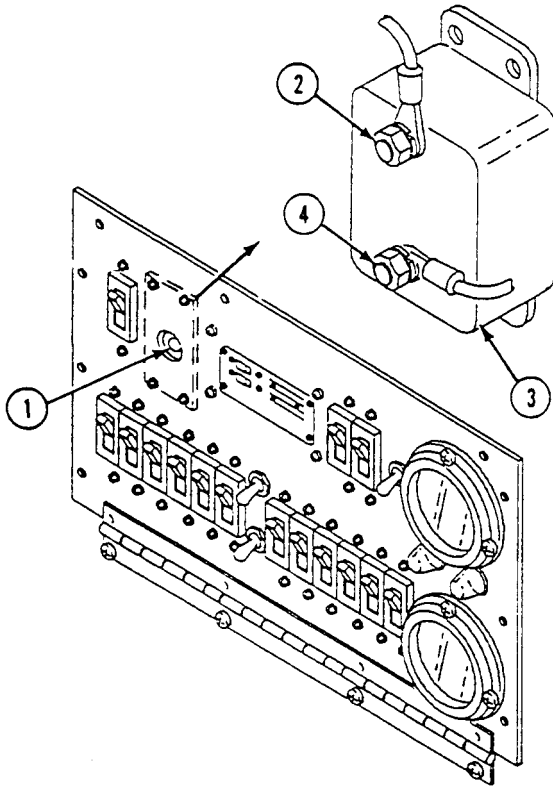
YES

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

A5Y

1. Have helper depress DC TO INVERTERS button (1) on Power Control Enclosure panel.
2. Measure voltage between terminal 1 (2) of circuit breaker CB2 (3) and ground.
3. Repeat measurement between terminal 2 (4) and ground.
4. Does multimeter read 22 volts DC or more for both measurements?

**YES****A5YN**

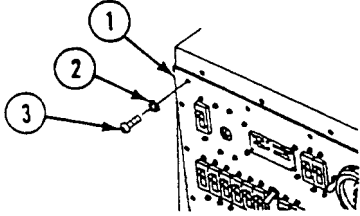
1. Replace circuit breaker CB2 (WP 0828 00).
2. Verify no faults found.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

A6Y

1. Raise faceplate (1) and secure to Power Control Enclosure with ten new lockwashers (2) and screws(3).



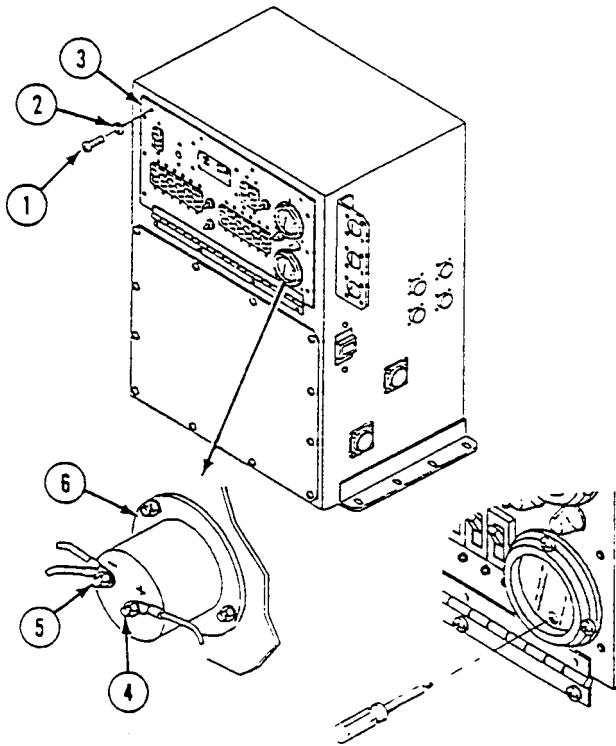
2. Verify no faults found.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

BY

1. Turn all vehicle power OFF (see your -10 and TM 11-7010-256-12&P).
2. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
3. Set MASTER SWITCH to ON
4. Measure voltage between positive (4) and negative (5) terminals on meter M2 (6).
5. Does multimeter read 22 volts DC or more, and the same as meter M2?



YES

NO

BYN

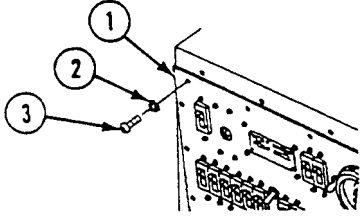
1. Adjust meter M2 needle to match multimeter reading.
2. If meter cannot be adjusted, replace DC meter M2 (WP 0827 00).
3. Verify no faults found.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

B2Y

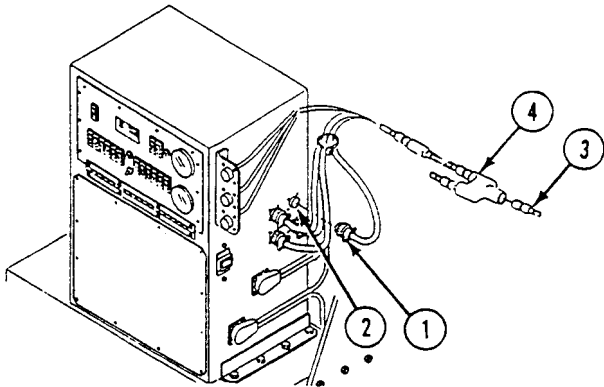
1. Raise faceplate (1) and secure to Power Control Enclosure with ten new lockwashers (2) and screws(3).



2. Verify no faults found.

CY

1. Set MASTER SWITCH to OFF.
2. Install cable W38 plug P7 (1) on Power Control Enclosure jack J28 (2).
3. Remove circuit 415 plug P1 (3) from adapter T2 plug P1 (4).
4. Set MASTER SWITCH to ON.
5. Measure voltage between circuit 415 plug P1 (3) and ground.
6. Does multimeter read 22 volts DC or more?



YES

NO

CYN

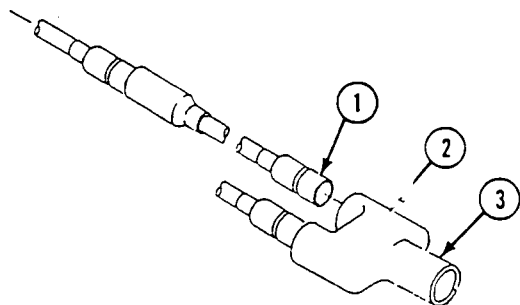
1. Go to: MASTER SWITCH ON indicator does not light (WP 0048 00).

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

C2Y

1. Set MASTER SWITCH to OFF.
2. Remove cable W29 plug P1 (1) from adapter T2 plug P2 (2).
3. Measure resistance between adapter T2 plugs P2 (2) and P1 (3).
4. Does multimeter read 0 ohms?



NO

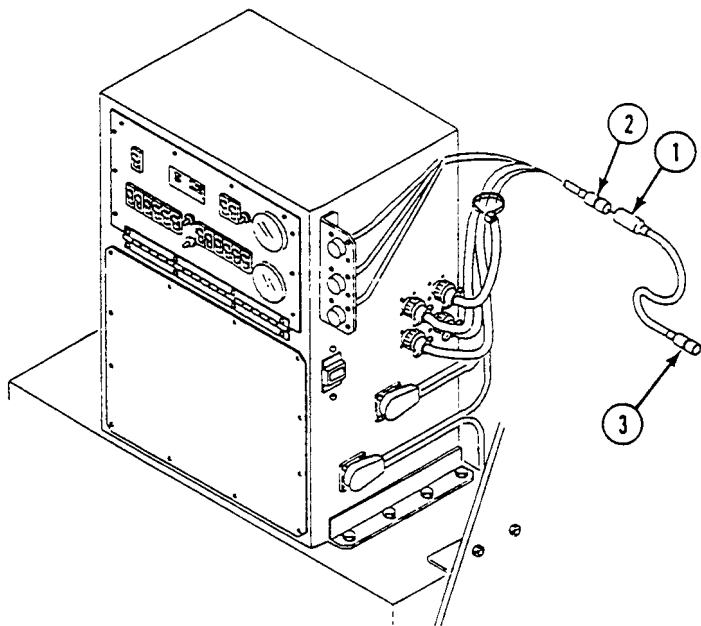
C2YN

1. Replace adapter T2 (WP 0850 00).
2. Verify no faults found.

YES

C3Y

1. Remove cable W29 plug P2 (1) from cable W38 plug P6 (2).
2. Measure resistance between plugs P2 (1) and P1 (3) of cable W29.
3. Does multimeter read 0 ohms?



NO

C3YN

1. Replace cable W29 (WP 0850 00).
2. Verify no faults found.

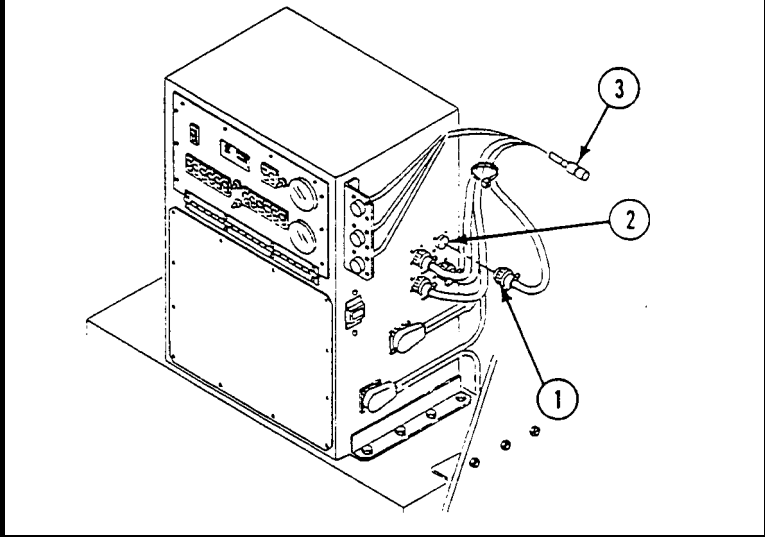
YES

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

C4Y

1. Remove cable W38 plug P7 (1) from Power Control Enclosure jack J28 (2).
2. Measure resistance between center of plugs P7 (1) and P6 (3) of cable W38.
3. Does multimeter read 0 ohms?



YES



NO

C4YN

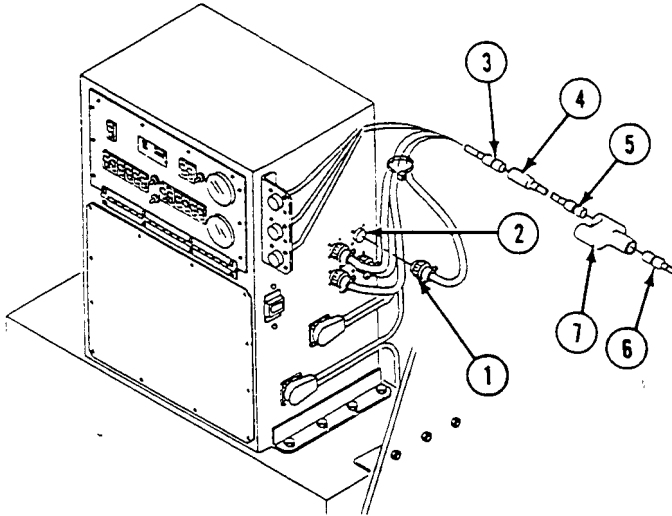
1. Replace cable W38 (WP 0850 00).
2. Verify no faults found.

POWER CONTROL ENCLOSURE A1 DC INPUT/OUTPUT INOPERATIVE (M1068A3 ONLY)—Continued

0090 00

C5Y

1. Install cable W38 plug P7 (1) on Power Control Enclosure jack J28(2).
2. Install cable W38 plug P6 (3) on cable W29 plug P2 (4).
3. Install cable W29 plug P1 (5) and circuit 415 plug P1 (6) on adapter T2 (7).



4. Verify no faults found.

NO AC POWER FROM TENT INTERFACE PANEL A5 (M1068A3 ONLY)

0091 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

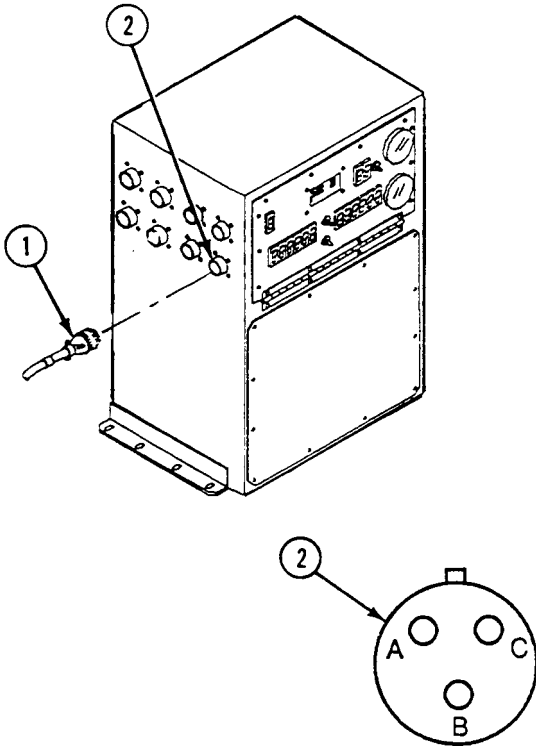
BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

T

1. Remove cable W32, plug P15 (1) from Power Control Enclosure jack J32 (2).
2. Apply AC power to SICPS system, TM 11-7010-256-12&P.
3. Measure voltage between socket A and socket B of jack J32 (2) and then between socket A and socket C.
4. Does multimeter read 110 volts AC or more for each measurement?

NO

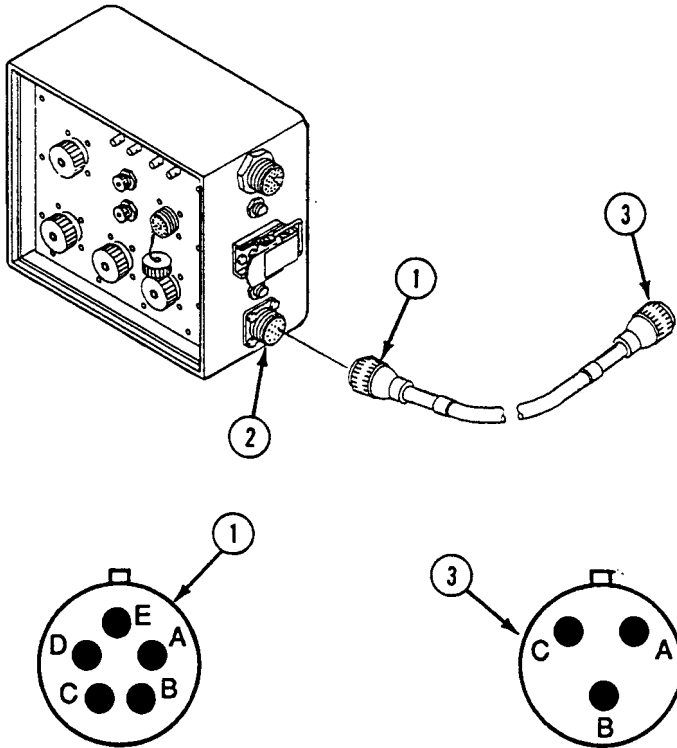
GO TO BY (PAGE 0091 00-4)



YES

Y

1. Turn all power OFF, (see your -10) and TM 11-7010-256-12&P.
2. Remove cable W32, plug P6 (1) from Tent Interface Panel jack J7 (2).
3. Measure resistance between pins on P6 (1) and P15 (3) of cable W32 as follows:
 P6 pin C to P15 pin A
 P6 pin D to P15 pin B
 P6 pin E to P15 pin C
4. Does multimeter read 0 ohms for each set of measurements?



NO

YN

1. Replace cable W32 (WP 0848 00).
2. Verify no faults found.

YES

2Y

1. Faulty Tent Interface Panel. Beyond unit maintenance repair.
2. Notify supervisor.

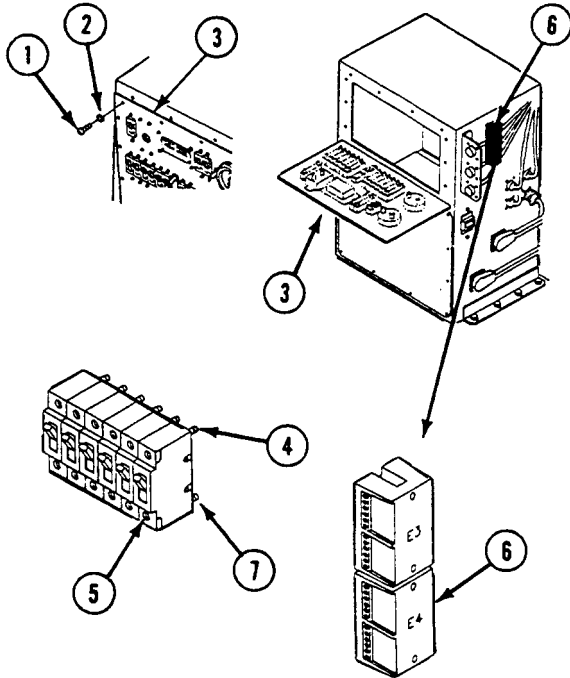
BY

1. Remove ALL power from SICPS system, (see your -10) and TM 11-7010-256-12&P.
2. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
3. Apply AC power to the SICPS system, (see your -10) and TM 11-7010-256-12&P.
4. Set AC TENT INTERFACE PANEL circuit breaker to ON, TM 11-7010-256-12&P.
5. Measure voltage between terminal 1 (4) of circuit breaker CB10 (5) to anywhere on bus bar E4 (6). Repeat measurement for terminal 2 (7) to bus bar E4.
6. Does multimeter read 110 volts AC for each measurement?

NO

BYN

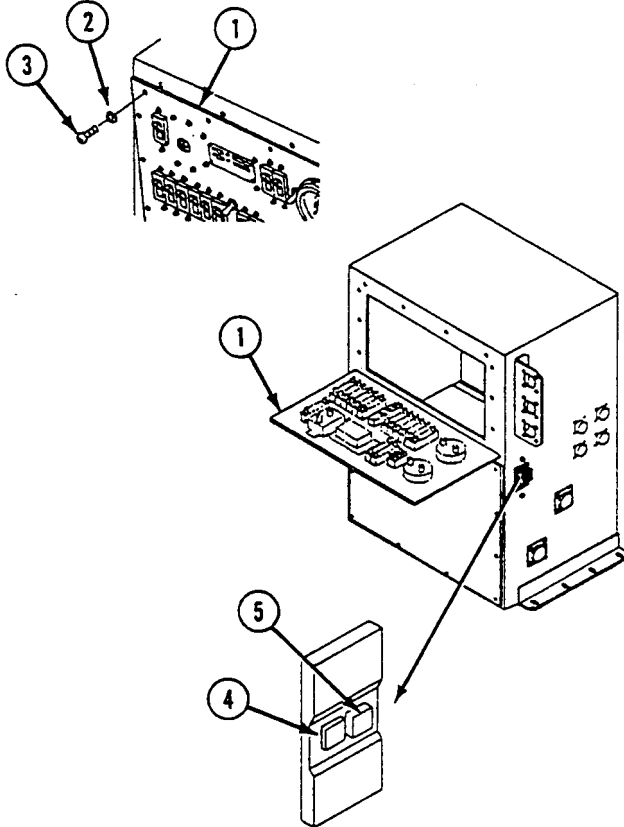
1. Replace circuit breaker CB10 (WP 0828 00).
2. Verify no faults found.



YES

B2Y

1. Raise faceplate (1) and secure to Power Control Enclosure with ten new lockwashers (2) and screws (3).
2. Press ground fault interrupter TEST button (4).
3. Does RESET button (5) pop out?



NO

B2YN

1. Faulty ground fault interrupter. Beyond unit maintenance repair.
2. Verify no faults found.

YES

B3Y

1. Go to: No Power To AC Circuits (M1068A3 Only) (WP 0107 00).

NO DC POWER FROM TENT INTERFACE PANEL A5 (M1068A3 ONLY)

0092 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

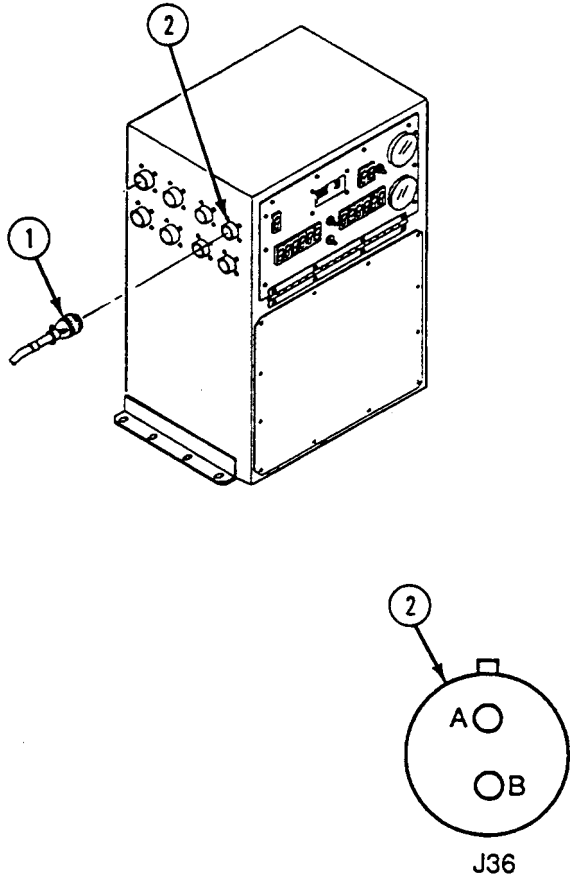
DO NOT attempt power cable connections until grounding system and signal/data cabling have been completed.

T

1. Remove cable W32, plug P16 (1) from Power Control Enclosure jack J36 (2).
2. Turn MASTER SWITCH to ON (see your -10).
3. Set DC TENT INTERFACE panel switch to ON TM 11-7010-256-12&P.
4. Measure voltage between jack J36 (2) socket A to socket B.
5. Does multimeter read 22 volts DC or more?

NO

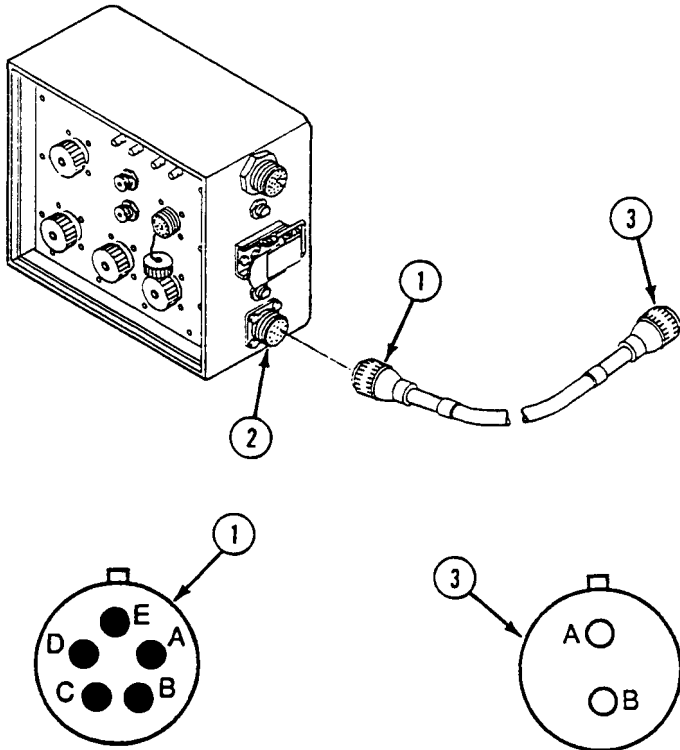
GO TO BY (PAGE 0092 00-4)



YES

Y

1. Turn MASTER SWITCH to OFF (see your -10).
2. Remove cable W32, plug P6 (1) from TENT INTERFACE panel jack J7 (2).
3. Measure resistance between pin A on plug P6 (1) and pin A on plug P16 (3) of cable W32.
3. Measure resistance between pin B on plug P6 (1) and pin B on plug P16 (3) of cable W32.
4. Does multimeter read 0 ohms for each set of measurements?



NO

YN

1. Replace cable W32 (WP 0848 00).
2. Verify no faults found.

YES

2Y

1. Faulty Tent Interface Panel. Beyond unit maintenance repair.
2. Notify supervisor.

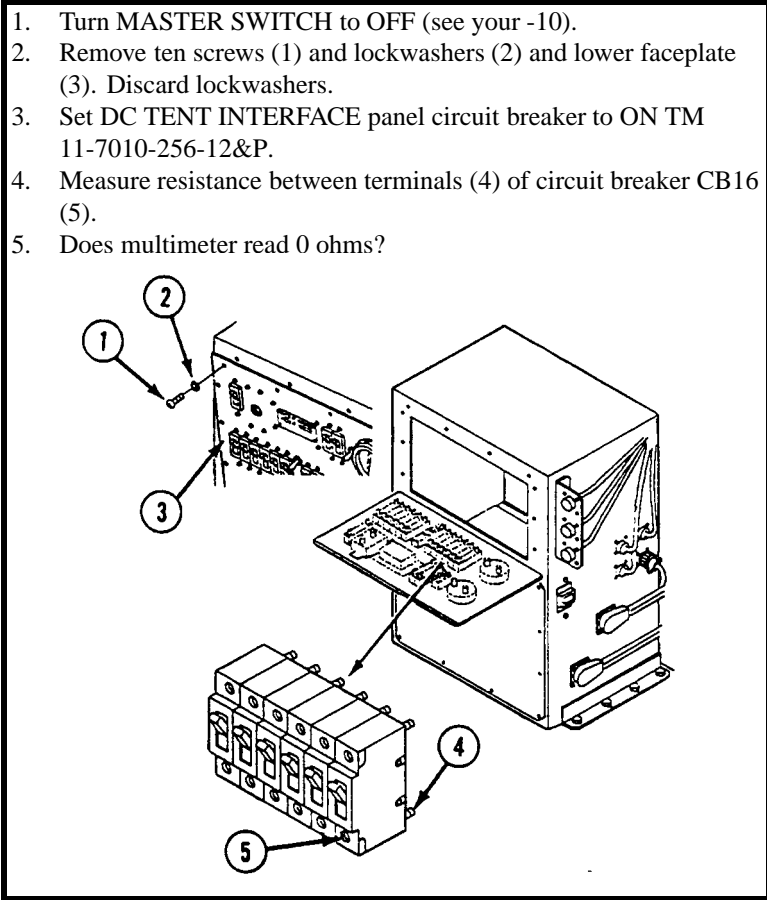
BY

1. Turn MASTER SWITCH to OFF (see your -10).
2. Remove ten screws (1) and lockwashers (2) and lower faceplate (3). Discard lockwashers.
3. Set DC TENT INTERFACE panel circuit breaker to ON TM 11-7010-256-12&P.
4. Measure resistance between terminals (4) of circuit breaker CB16 (5).
5. Does multimeter read 0 ohms?

NO

BYN

1. Replace circuit breaker CB16 (WP 0827 00).
2. Verify no faults found.



YES

B2Y

1. Raise faceplate and secure to Power Control Enclosure with ten new lockwashers and screws.
2. Go to: Power Control Enclosure A1 DC Input/Output Inoperative (M1068A3 Only) (WP 0090 00).

NO POWER FROM ROADSIDE AC POWER EXTENSION BOX A6 (M1068A3 ONLY)

0093 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

NO POWER FROM ROADSIDE AC POWER EXTENSION BOX A6 (M1068A3 ONLY)—Continued

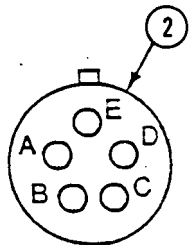
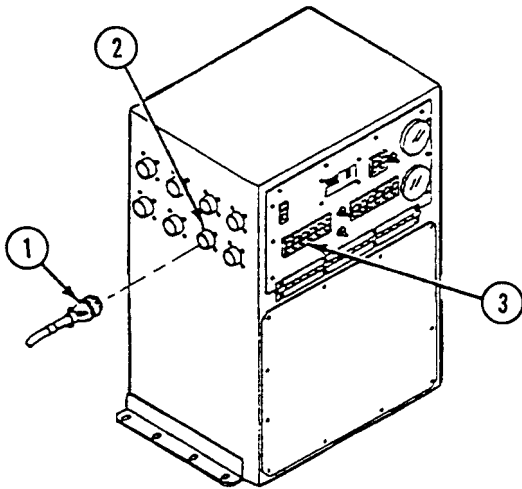
0093 00

T

1. Remove cable W7 plug P10 (1) from Power Control Enclosure jack J30 (2).
2. With AC power accepted, set AC LEFT OUTLETS switches (3) on Power Control Enclosure panel to ON, see TM 11-7010-256-12&P.
3. Measure voltage between sockets A and B of jack J30 (2).
4. Measure voltage between sockets C and D of jack J30 (2).
5. Does multimeter read 110 volts AC or more for both measurements?

NO

GO TO BY (PAGE 0093 00-4)



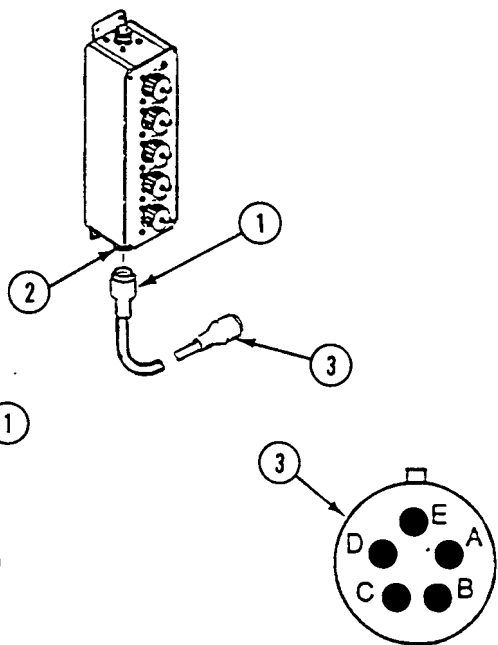
YES

NO POWER FROM ROADSIDE AC POWER EXTENSION BOX A6 (M1068A3 ONLY)—Continued

0093 00

Y

1. Set AC LEFT OUTLETS switches to OFF and remove all power from SICPS system (see your -10) and TM 11-7010-256-12&P.
2. Remove cable W7 plug P1 (1) from Roadside AC Power Extension Box jack J1 (2).
3. Measure resistance between pins of plugs P1 (1) and P10 (3) on cable W7 as follows:
 - P1 pin A to P10 pin A
 - P1 pin B to P10 pin B
 - P1 pin C to P10 pin C
 - P1 pin D to P10 pin D
 - P1 pin E to P10 pin E
4. Does multimeter read 0 ohms for each set of pins?



NO

YN

1. Replace cable W7 (WP 0842 00).
2. Verify no faults found.

YES

2Y

1. Replace Roadside AC Power Extension Box A6 (WP 0834 00).
2. Verify no faults found.

NO POWER FROM ROADSIDE AC POWER EXTENSION BOX A6 (M1068A3 ONLY)—Continued

0093 00

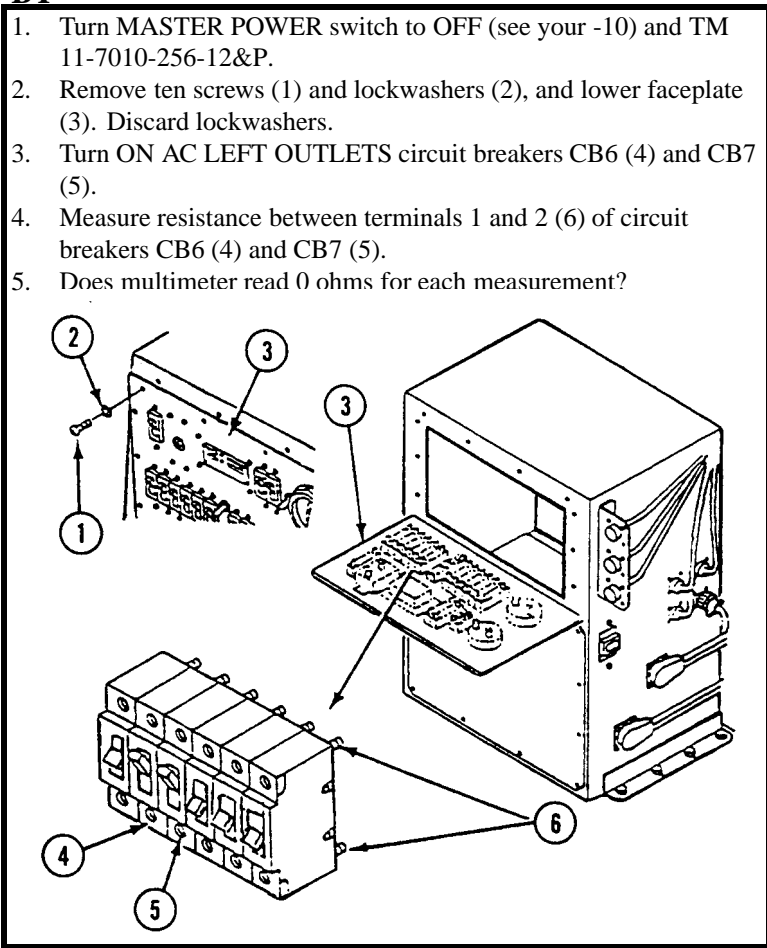
BY

1. Turn MASTER POWER switch to OFF (see your -10) and TM 11-7010-256-12&P.
2. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
3. Turn ON AC LEFT OUTLETS circuit breakers CB6 (4) and CB7 (5).
4. Measure resistance between terminals 1 and 2 (6) of circuit breakers CB6 (4) and CB7 (5).
5. Does multimeter read 0 ohms for each measurement?

NO

BYN

1. Resistance in CB6 and CB7 should be 0 ohms. If any resistance is present, replace that CB (WP 0828 00).
2. Verify no faults found.



YES

B2Y

1. Raise faceplate and secure to Power Control Enclosure with ten new lockwashers and screws.
2. Go to: No Power To AC Circuits (M1068A3 Only) (WP 0107 00).

NO POWER FROM CURBSIDE AC POWER EXTENSION BOX A7 (M1068A3 ONLY)

0094 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

NO POWER FROM CURBSIDE AC POWER EXTENSION BOX A7 (M1068A3 ONLY)—Continued

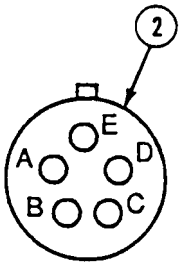
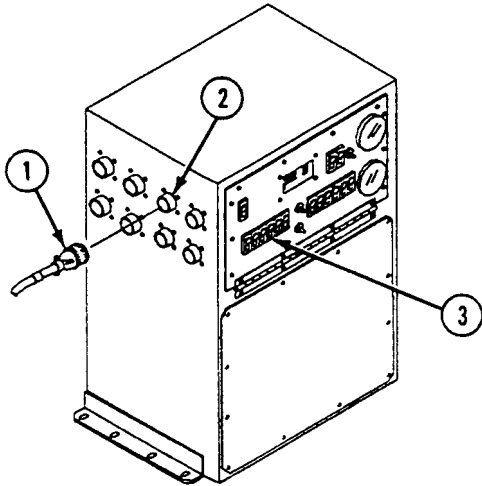
0094 00

T

1. With AC power accepted, set AC RIGHT OUTLETS switches (3) on Power Control Enclosure panel to ON, see TM 11-7010-256-12&P.
2. Measure voltage between sockets A and B of jack J31 (2).
3. Measure voltage between sockets C and D of jack J31 (2).
4. Does multimeter read 110 volts AC or more for both measurements?

NO

GO TO BY (PAGE 0094 00-4)



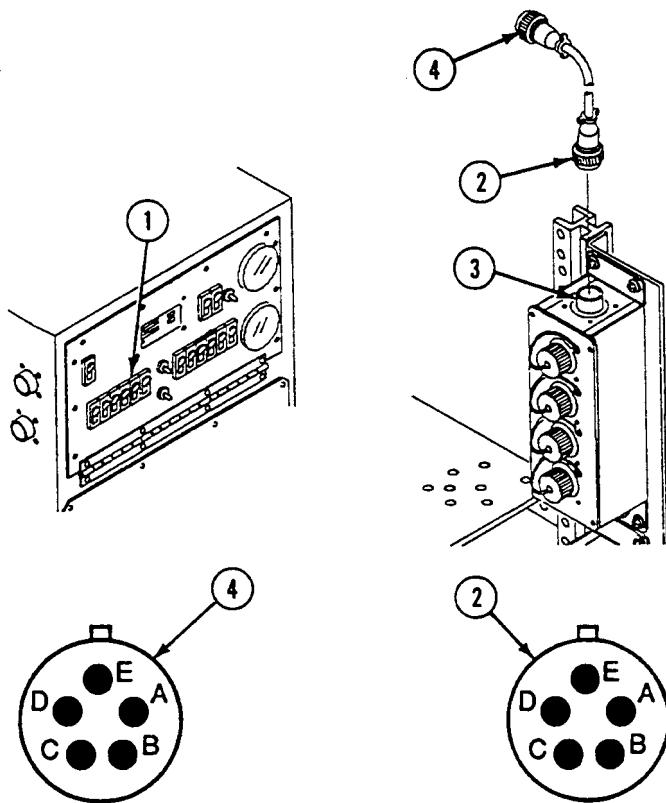
YES

NO POWER FROM CURBSIDE AC POWER EXTENSION BOX A7 (M1068A3 ONLY)—Continued

0094 00

Y

1. Set AC RIGHT OUTLETS switches (1) to OFF and remove ALL power from SICPS system (see your -10) and TM 11-7010-256-12&P.
2. Remove cable W8 plug P1 (2) from Curbside AC Power Extension Box jack J1 (3).
3. Measure resistance between pins of plugs P1 (2) and P11 (4) on cable W8 as follows:
 - P1 pin A to P11 pin A
 - P1 pin B to P11 pin B
 - P1 pin C to P11 pin C
 - P1 pin D to P11 pin D
 - P1 pin E to P11 pin E
4. Does multimeter read 0 ohms for each set of pins?



NO

YN

1. Replace cable W8 (WP 0843 00).
2. Verify no faults found.

YES

2Y

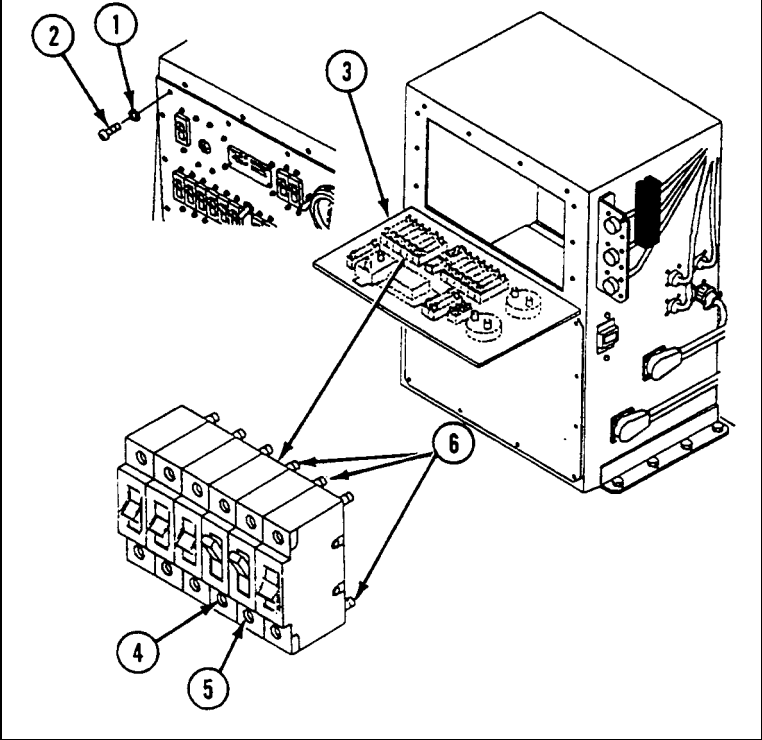
1. Replace Curbside AC Power Extension Box A7 (WP 0815 00).
2. Verify no faults found.

NO POWER FROM CURBSIDE AC POWER EXTENSION BOX A7 (M1068A3 ONLY)—Continued

0094 00

BY

1. Turn MASTER POWER switch to OFF (see your -10) and TM 11-7010-256-12&P.
2. Remove ten screws (1) and lockwashers (2). Lower faceplate (3). Discard lockwashers.
3. Turn ON AC RIGHT OUTLETS circuit breakers CB8 (4) and CB9 (5).
4. Measure resistance between terminal 1 and terminal 2 (6) of circuit breaker CB8 (4).
5. Measure resistance between terminal 1 and terminal 2 (6) of circuit breaker CB9 (5).
6. Does multimeter read 0 ohms for each measurement?



NO

BYN

1. Resistance in CB8 and CB9 should be 0 ohms. If any resistance is present, replace that CB (WP 0828 00).
2. Verify no faults found.

YES

B2Y

1. Raise faceplate and secure to Power Control Enclosure with ten new lockwashers and screws.
2. Go to: No Power To AC Circuits (M1068A3 Only) (WP 0107 00).

NO POWER FROM DC POWER EXTENSION BOX A9 (ALL EXCEPT JACK J23) (M1068A3 ONLY)

0095 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

NO POWER FROM DC POWER EXTENSION BOX A9 (ALL EXCEPT JACK J23) (M1068A3 ONLY)—Continued

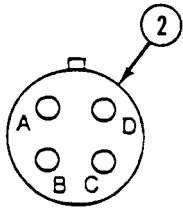
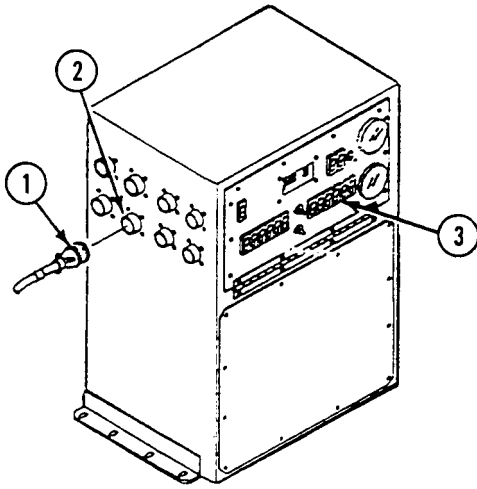
0095 00

T

1. Remove cable W10 plug P14 (1) from Power Control Enclosure jack J34 (2).
2. Turn MASTER SWITCH to ON.
3. Set DC LEFT OUTLETS switches (3) on Power Control Enclosure panel to ON (see TM 11-7010-256-12&P).
4. Measure voltage between sockets A and B of jack J34 (2). Repeat measurement for sockets C and D.
5. Does multimeter read 22 volts DC or more for each measurement?

NO

GO TO AY (PAGE 0095 00-4)



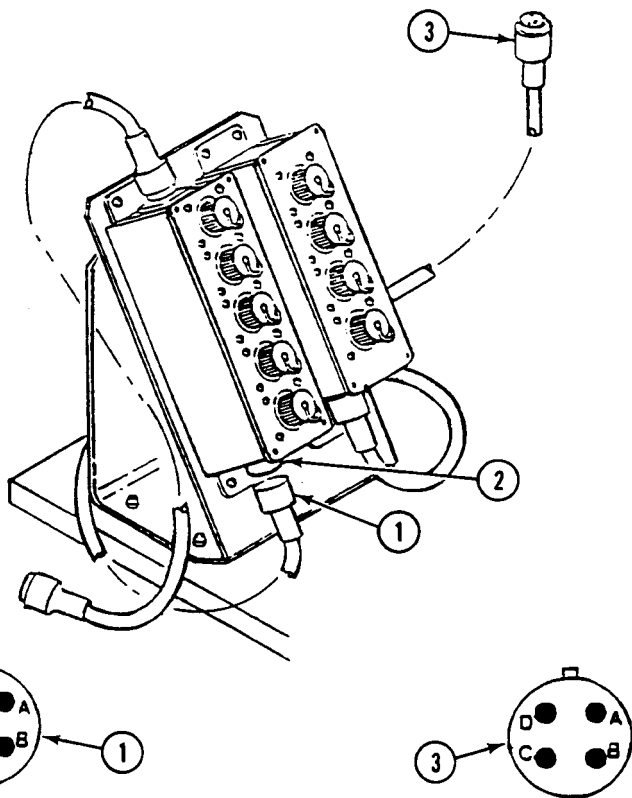
YES

NO POWER FROM DC POWER EXTENSION BOX A9 (ALL EXCEPT JACK J23) (M1068A3 ONLY)—Continued

0095 00

Y

1. Turn MASTER SWITCH to OFF.
2. Remove cable W10 plug P1 (1) from DC Power Extension Box A9 jack J1 (2).
3. Measure resistance between pins of plugs P1 (1) and P14 (3) on cable W10 as follows:
 - P1 pin A to P14 pin A
 - P1 pin B to P14 pin B
 - P1 pin C to P14 pin C
 - P1 pin D to P14 pin D
4. Does multimeter read 0 ohms for each set of pins?



NO

YN

1. Replace cable W10 (WP 0844 00).
2. Verify no faults found.

YES

2Y

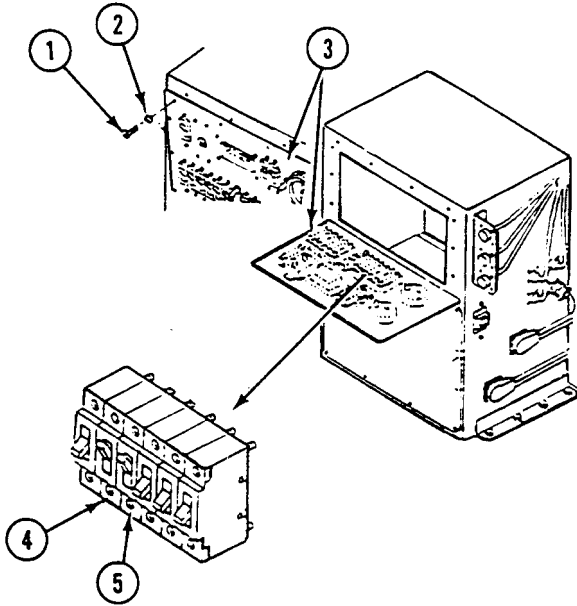
1. Replace DC Power Extension Box A9 (WP 0834 00).
2. Verify no faults found.

NO POWER FROM DC POWER EXTENSION BOX A9 (ALL EXCEPT JACK J23) (M1068A3 ONLY)—Continued

0095 00

AY

1. Turn MASTER SWITCH to OFF.
2. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
3. Turn ON DC LEFT OUTLETS circuit breakers CB12 (4) and CB13 (5).
4. Measure resistance between terminals 1 and 2 of circuit breakers CB12 (4) and CB13 (5).
5. Does multimeter read 0 ohms for each measurement?

**NO****AYN**

1. Resistance in CB12 and CB13 should be 0 ohms. If any resistance is present, replace that CB (WP 0828 00).
2. Verify no faults found.

YES**A2Y**

1. Raise faceplate and secure to Power Control Enclosure with ten new lockwashers and screws.
2. Go to: Power Control Enclosure A1 DC Input/Output Inoperative (M1068A3 Only) (WP 0090 00).

**NO POWER FROM DC POWER EXTENSION BOX A9, JACK
J23 (JTIDS) (M1068A3 ONLY)**

0096 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Digital Multimeter (WP 0926 00, Item 30)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10

Helper (H)

References

See your -10

TM 11-7010-256-12&P

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

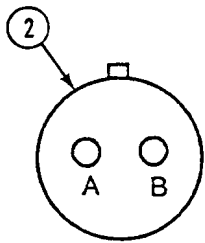
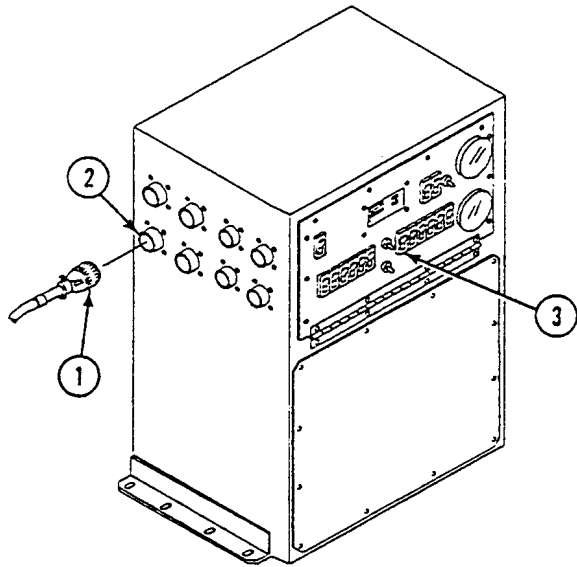
BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

**NO POWER FROM DC POWER EXTENSION BOX A9, JACK J23 (JTIDS)
(M1068A3 ONLY) — Continued**

0096 00

T

1. Remove cable W45 plug P13 (1) from power control enclosure jack J33 (2).
2. Turn MASTER SWITCH to ON (see your -10).
3. Set JTIDS switch (3) on power control enclosure panel to ON. See TM 11-7010-256-12&P.
4. Measure voltage between sockets A and B of J33 (2).
5. Does multimeter read 22 volts DC or more?



NO

TN

GO TO AY (PAGE 0096 00-4)

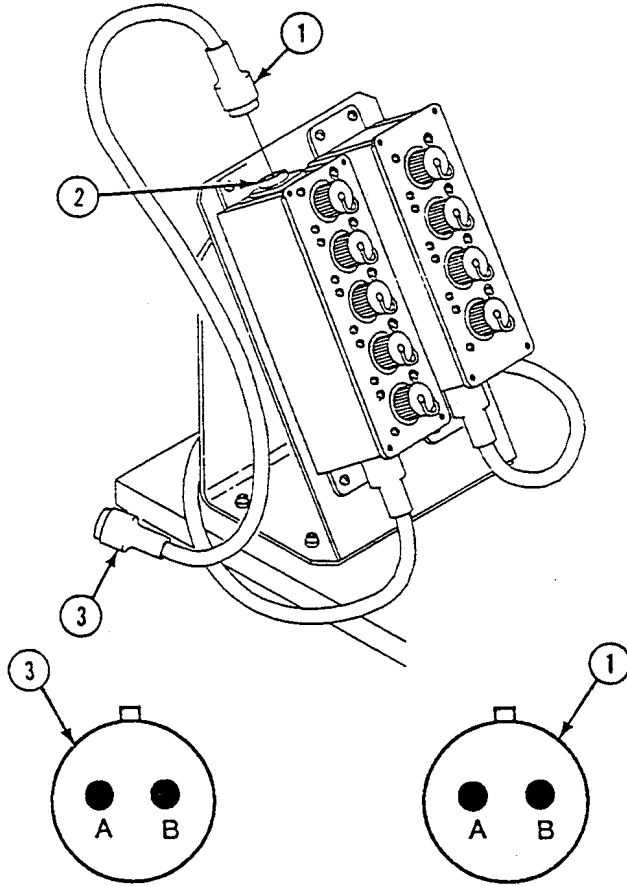
YES

**NO POWER FROM DC POWER EXTENSION BOX A9, JACK J23 (JTIDS)
(M1068A3 ONLY) — Continued**

0096 00

Y

1. Turn MASTER SWITCH to OFF (see your -10).
2. Remove cable W45 plug P1 (1) from DC power extension box A9 jack J2 (2).
3. Measure resistance between plug P1 (1) pin A and P13 (3) pin A of cable W45. Repeat measurement for pins B.
4. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace cable W45 (WP 0853 00).
2. Verify no faults found.

YES

2Y

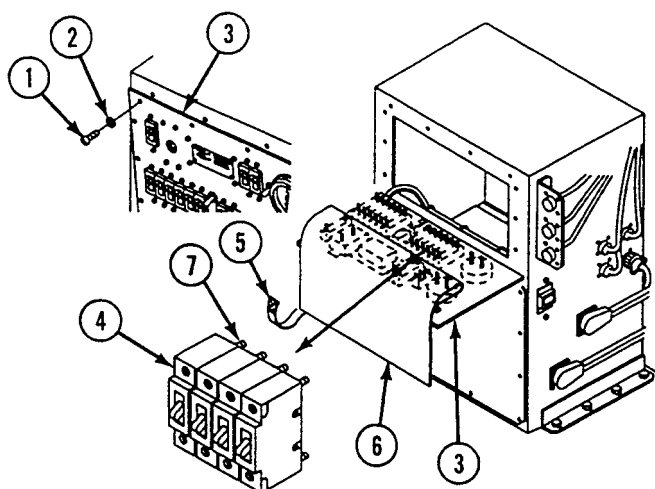
1. Replace DC power extension box A9 (WP 0834 00).
2. Verify no faults found.

**NO POWER FROM DC POWER EXTENSION BOX A9, JACK J23 (JTIDS)
(M1068A3 ONLY) — Continued**

0096 00

AY

1. Turn MASTER SWITCH to OFF (see your -10).
2. Remove 10 screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
3. Turn ON JTIDS circuit breaker CB11 (4).
4. Undo velcro strap (5) and lift safety cover (6) over top of faceplate (3).
5. Measure resistance between terminals 1 and 2 (7) of circuit breaker CB11 (4).
6. Does multimeter read 0 ohms?



NO

AYN

1. Replace circuit breaker CB11 (WP 0828 00).
2. Verify no faults found.

YES

A2Y

1. Place safety cover over inside of faceplate and secure with velcro strap.
2. Raise faceplate and secure to power control enclosure with 10 new lockwashers and screws.
3. Go to Power Control Enclosure A1 DC Input/Output Inoperative (M1068A3 Only) (WP 0090 00).

NO DC POWER TO SINGLE POINT LAN GROUND BOX A15 (M1068A3 ONLY)

0097 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Personnel Required

Power-Generation Equipment Repairer 52D10
 Helper (H)

Engine stopped (see your -10)

Carrier blocked (see your -10)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

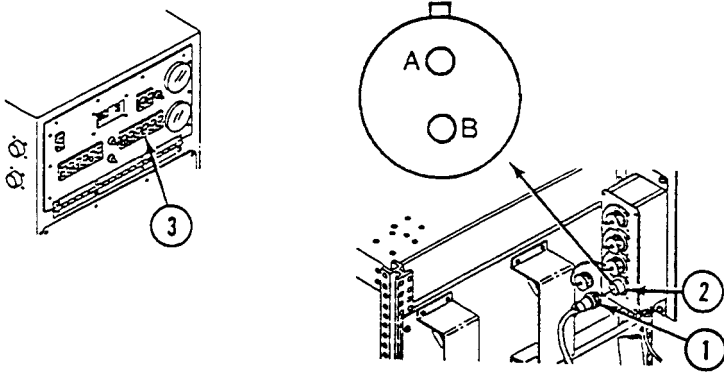
NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

T

1. Remove cable W40 plug P1 (1) from DC Power Extension Box A8 jack J17 (2).
2. Turn MASTER SWITCH to ON (See your -10).
3. Set DC RIGHT OUTLETS switches (3) on Power Control Enclosure to ON (see TM 11-7010-256-12&P).
4. Measure voltage between sockets A and B of J17 (2).
5. Does multimeter read 22 volts DC or more?



NO

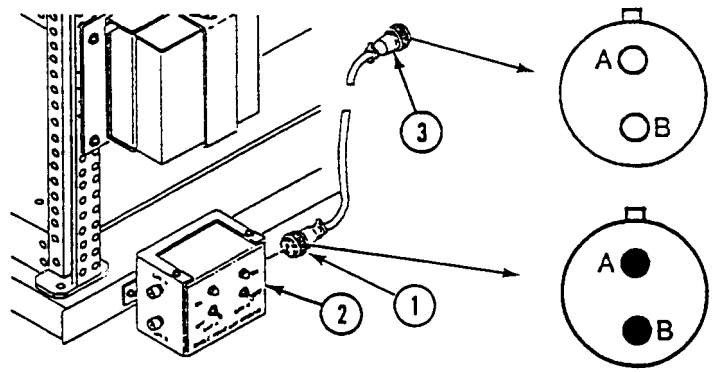
TN

1. Go To: No Power From DC Power Extension Box A8.
2. Verify no faults found.

YES

Y

1. Turn MASTER SWITCH to OFF (see your -10).
2. Disconnect cable W40 plug P2 (1) from Single Point LAN Ground Box A15 jack J1 (2).
3. Measure resistance between plug P1 (3) pin A and P2 (1) pin A of cable W40. Repeat measurement for pins B.
4. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace cable W40 (WP 0851 00).
2. Verify no faults found.

YES

2Y

- | |
|---|
| <ol style="list-style-type: none">1. Repair LAN Ground Box A15 (WP 0820 00).2. Verify no faults found. |
|---|

NO POWER FROM UPS POWER EXTENSION BOX A18 (M1068A3 ONLY)

0098 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

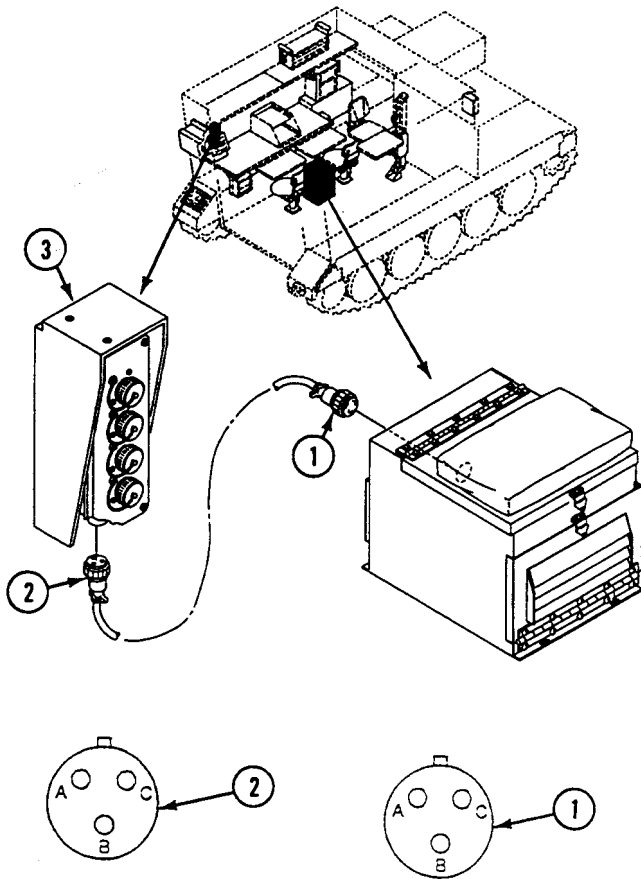
T

1. Open front cover on ATCCS UPS Storage Box and remove cable W251 plug P1 (1) from UPS jack AC OUT.
2. Remove cable W251 plug P2 (2) from UPS Power Extension Box A18 jack J6 (3).
3. Measure resistance between pins of plugs P1 (1) and P2 (2) of cable W251 as follows:
 - P1 pin A to P2 socket A
 - P1 pin B to P2 socket B
 - P1 pin C to P2 socket C
4. Does multimeter read 0 ohms for each measurement?

NO

TN

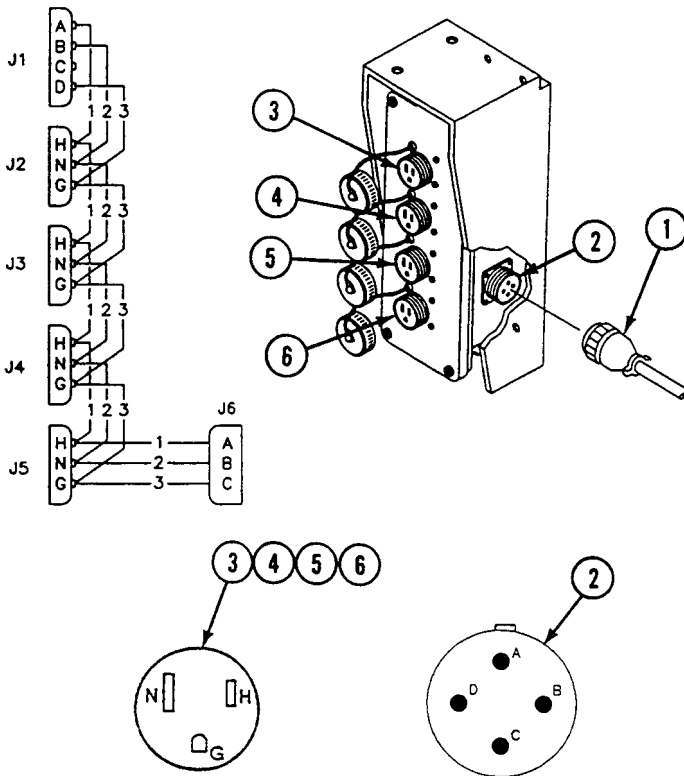
1. Replace cable W251 (WP 0852 00).
2. Verify no faults found.



YES

Y

1. Remove cable W252 plug P1 (1) from UPS Power Extension Box A18 jack J1 (2).
2. Measure resistance between jacks J1 (2), J2 (3), J3 (4), J4 (5), J5 (6), and J6 (7) of UPS Power Extension Box A18 as follows:
 - J1 socket A to J2, J3, J4, and J5 socket H
 - J1 socket B to J2, J3, J4, and J5 socket N
 - J1 socket D to J2, J3, J4, and J5 socket G
 - J1 pin A to J6 socket A
 - J1 pin B to J6 socket B
 - J1 pin D to J6 socket C
3. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace/repair UPS Power Extension Box A18 (WP 0836 00).
2. Verify no faults found.

YES

2Y

1. Faulty ATCCS UPS Power. Beyond unit maintenance repair.
2. Notify supervisor.

**NO POWER FROM CURBSIDE UPS POWER EXTENSION BOX A19
(M1068A3 ONLY)**

0099 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

NO POWER FROM CURBSIDE UPS POWER EXTENSION BOX A19 (M1068A3 ONLY)—Continued

0099 00

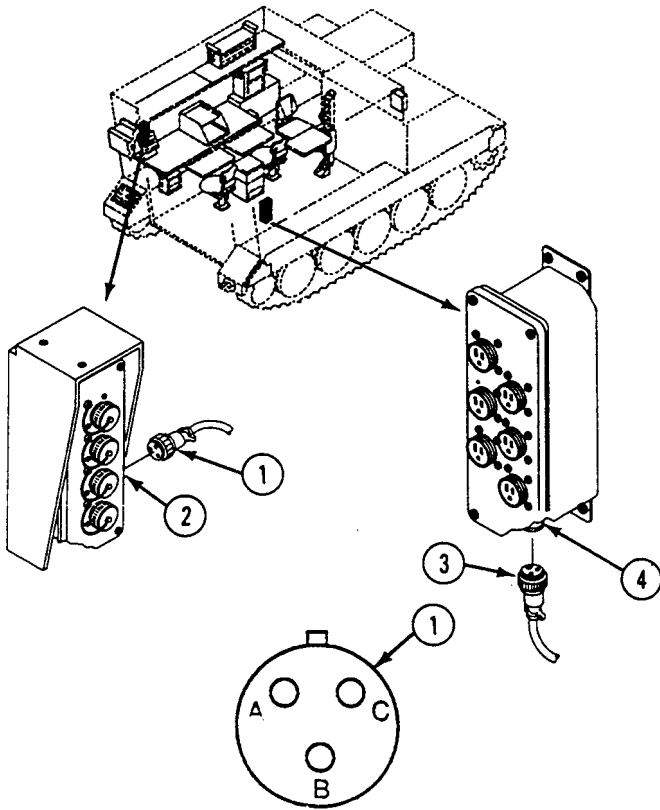
T

1. Remove cable W252 plug P1 (1) from UPS Power Extension Box A18 jack J1 (2).
2. Remove cable W252 plug P2 (3) from UPS Power Extension Box A19 jack J15 (4).
3. Measure resistance between pins of plugs P1 (1) and P2 (3) of cable W252 as follows:
 - P1 pin A to P2 socket A
 - P1 pin B to P2 socket B
 - P1 pin C to P2 socket C
4. Does multimeter read 0 ohms for each measurement?

NO

TN

1. Replace cable W252 (WP 0857 00).
2. Verify no faults found.



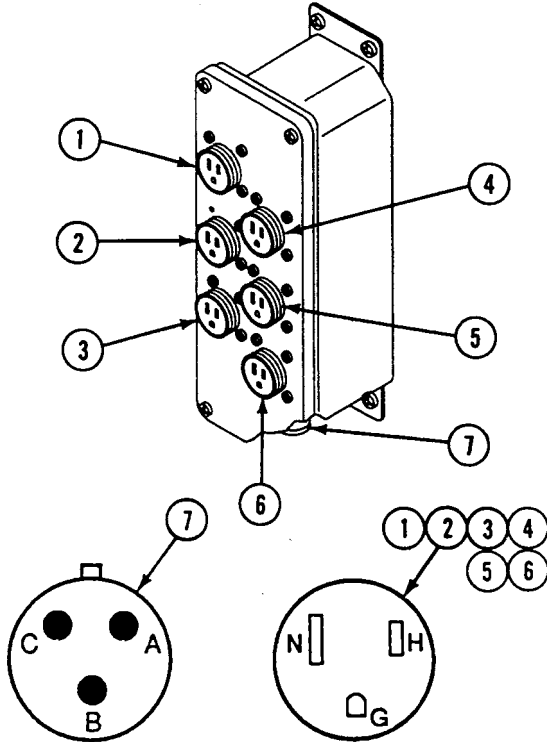
YES

NO POWER FROM CURBSIDE UPS POWER EXTENSION BOX A19 (M1068A3 ONLY)—Continued

0099 00

Y

1. Measure resistance between jacks J9 (1), J10 (2), J11 (3), J12 (4), J13 (5), J14 (6), and J15 (7) of UPS Power Extension Box A19 as follows:
 - J15 socket A to J9, J10, J11, J12, J13, and J14 socket H.
 - J15 socket B to J9, J10, J11, J12, J13, and J14 socket N.
 - J15 socket C to J9, J10, J11, J12, J13, and J14 socket G.
2. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace/repair UPS Power Extension Box A19 (WP 0822 00).
2. Verify no faults found.

YES

2Y

1. Faulty ATCCS UPS Power. Beyond unit maintenance repair.
2. Notify supervisor.

NO AC/DC INPUT TO ATCCS UPS POWER BOX (M1068A3 ONLY)

0100 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (2)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

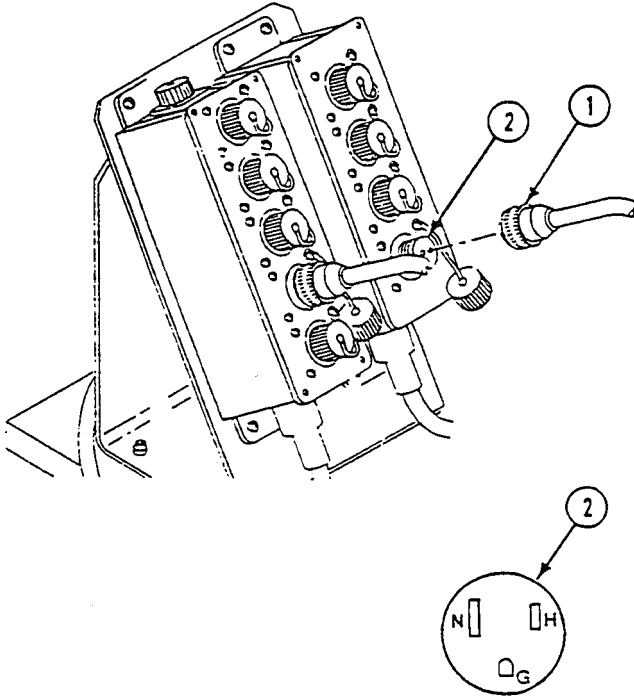
T

1. Remove cable W43 plug P2 (1) from Roadside AC Power Extension Box A6 jack J6 (2).
2. Apply AC power to SICPS system (TM 11-7010-256-12&P).
3. Set AC LEFT OUTLETS switches on Power Control Enclosure panel to ON.
4. Measure voltage between sockets H and N of J6 (2).
5. Does multimeter read 110 volts AC or more?

NO

TN

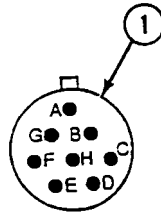
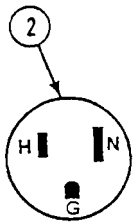
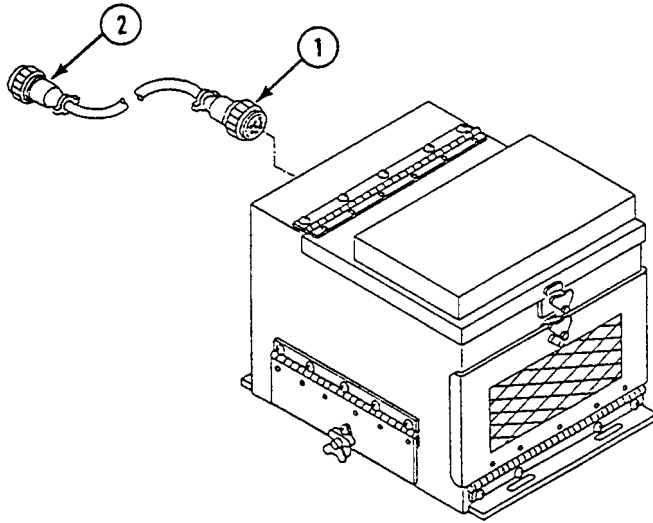
1. Go to: No Power From Roadside AC Power Extension Box A6 (WP 0093 00).



YES

Y

1. Turn all AC power OFF (TM 11-7010-256-12&P).
2. Open front cover on ATCCS UPS Storage Box and remove cable W43 plug P1 (1) from UPS jack AC IN.
3. Measure resistance between pins of plugs P2 (2) and P1 (1) of cable W43 as follows:
 - P2 pin H to P1 pin B
 - P2 pin N to P1 pin A
 - P2 pin G to P1 pin D
 - P1 pin F to P1 pin G
4. Does multimeter read 0 ohms for each measurement?



NO

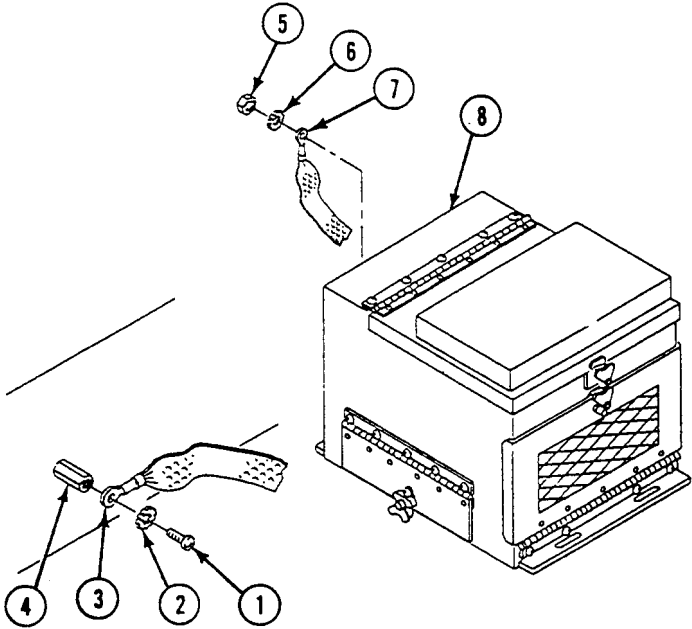
YN

1. Replace cable W43 (WP 0852 00).
2. Verify no faults found.

YES

2Y

1. Remove screw (1), lockwasher (2), and ground strap W12 terminal (3) from ground lug (4). Discard lockwasher.
2. Remove nut (5), lockwasher (6), and ground strap W12 terminal (7) from ATCCS UPS storage box (8). Discard lockwasher.
3. Measure resistance between terminals (3) and (7) of ground strap W12.
4. Does multimeter read 0 ohms?



NO

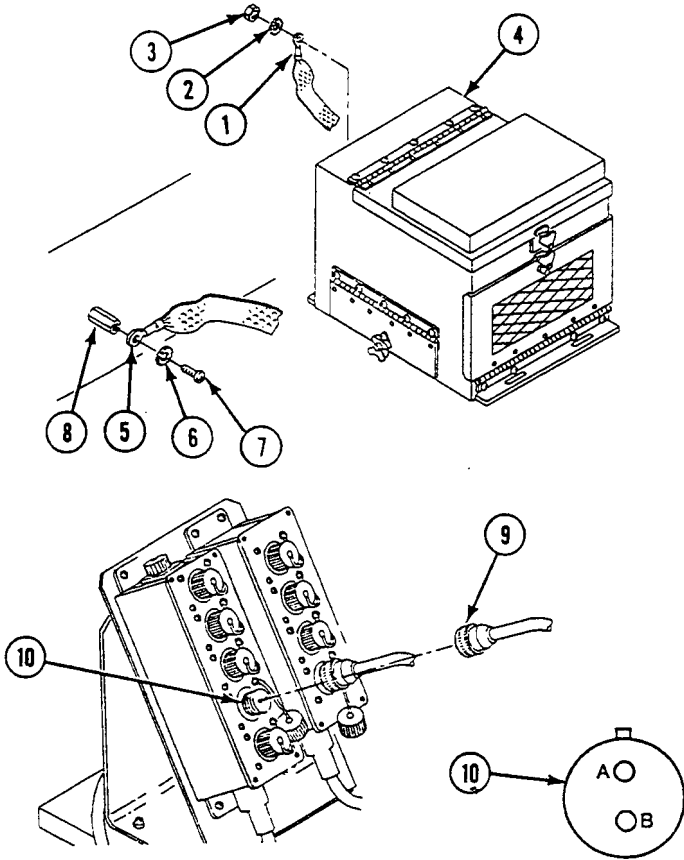
2YN

1. Replace ground strap W12 (WP 0846 00).
2. Verify no faults found.

YES

3Y

1. Install ground strap W12 terminal (1), new lockwasher (2), and nut (3) on ATCCS UPS storage box (4).
2. Install ground strap W12 terminal (5), new lockwasher (6), and screw (7) on ground lug (8).
3. Remove cable W42 plug P2 (9) from DC Power Extension Box A9 jack J21 (10).
4. Set MASTER SWITCH to ON.
5. Set DC LEFT OUTLETS switches on Power Control Enclosure panel to ON (TM 11-7010-256-12&P).
6. Measure voltage between sockets A and B of J21 (10).
7. Does multimeter read 22 volts DC or more?



NO

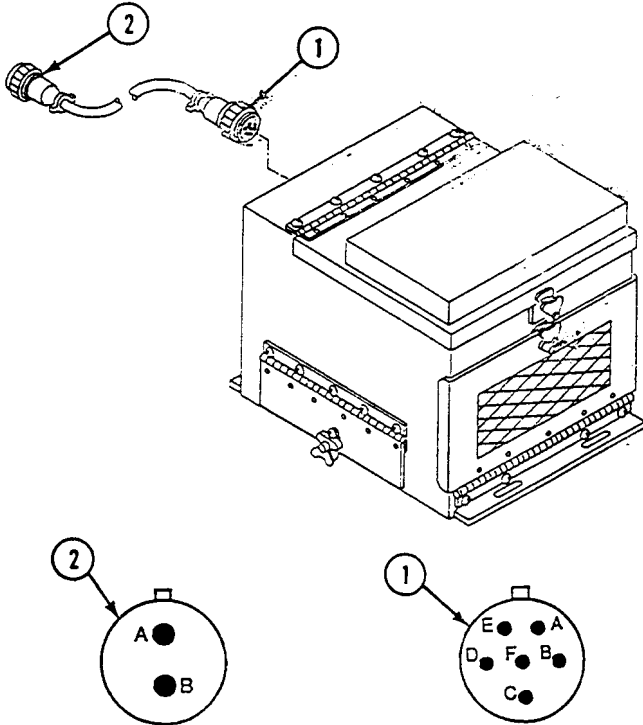
3YN

1. Go to: No Power from DC Power Extension Box A9 (WP 0095 00).

YES

4Y

1. Set MASTER SWITCH to OFF.
2. Open front cover on ATCCS UPS Storage Box and remove cable W42 plug P1 (1) from UPS jack DC IN.
3. Measure resistance between pins of plugs P2 (2) and P1 (1) of cable W42 as follows:
 P2 pin A to P1 pin A, E, and F
 P2 pin B to P1 pin B, C, and D
4. Does multimeter read 0 ohms for each measurement?



NO

4YN

1. Replace cable W42 (WP 0852 00).
2. Verify no faults found.

YES

5Y

1. Faulty ATCCS UPS Power. Beyond unit maintenance repair.
2. Notify supervisor.

**IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY
(M1068A3 ONLY)**

0101 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)

Materials/Parts

Lockwasher (10)

Carrier blocked (see your -10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

All AC External and Internal Power is OFF (see TM 710-256-12&P)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

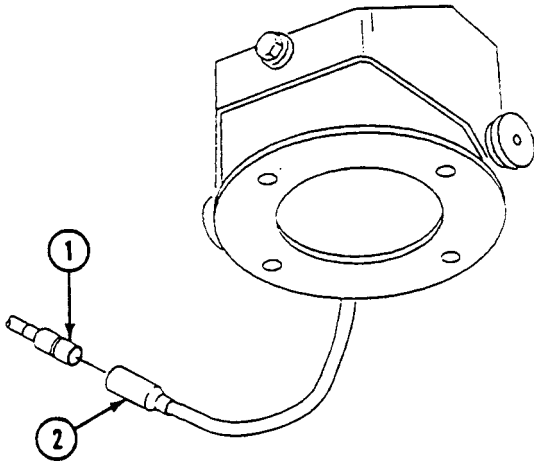
BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)—Continued

0101 00

T

1. Disconnect cable W28, plug P2 (1) from light lead (2).
2. Ensure ramp door is open or down. Set MASTER SWITCH to ON (see your -10).
3. Turn on dome lights from either the front dome light switch (on master switch panel) or at the rear dome light switch near the ramp. To do this, the blackout-bypass switch must be OFF, the ramp up, and the rear door closed.
4. Measure voltage between plug P2 (1) and ground.
5. Does multimeter read 22 volts DC or more?



NO

GO TO AY (PAGE 0101 00-3)

YES

Y

1. Turn MASTER SWITCH to OFF (see your -10).
2. Have light bulbs been replaced?

NO

YN

1. Replace light bulbs (WP 0312 00).
2. Verify no faults found.

YES

2Y

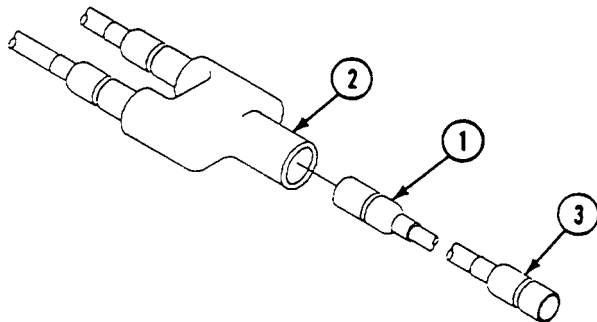
1. Repair light assembly (WP 0310 00).
2. Verify no faults found.

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)—Continued

0101 00

AY

1. Set MASTER SWITCH to OFF.
2. Remove cable W28, plug P1 (1) from adapter plug P1 (2).
3. Measure resistance between cable W28 plugs P1 and P2 (3).
4. Does multimeter read 0 ohms?



NO

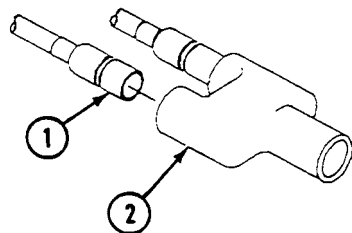
AYN

1. Replace cable W28 (WP 0849 00).
2. Verify no faults found.

YES

A2Y

1. Remove lead 38B (1) from adapter plug P3 (2).
2. Set MASTER SWITCH to ON.
3. Measure voltage between lead 38B (1) and ground.
4. Does multimeter read 22 volts DC or more?



NO

A2YN

1. Refer to: Dome Light Malfunction (M577A3 Only) (WP 0040 00).

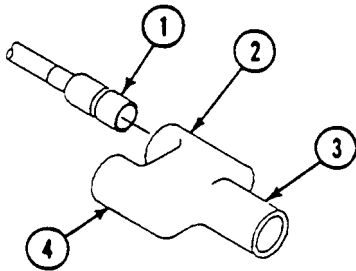
YES

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)—Continued

0101 00

A3Y

1. Set MASTER SWITCH to OFF.
2. Remove cable W35, plug P1 (1) from adapter plug P2 (2).
3. Measure resistance between plugs P1 (3), P2 (2), and P3 (4) of adapter.
4. Does multimeter read 0 ohms for each measurement?



NO

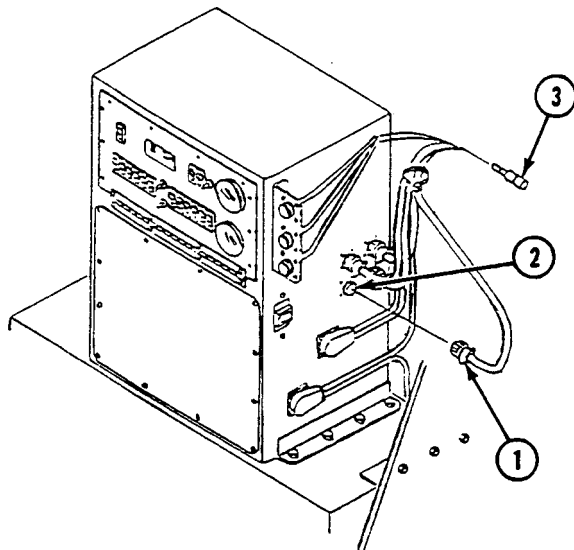
A3YN

1. Replace adapter (WP 0849 00).
2. Verify no faults found.

YES

A4Y

1. Remove cable W35 plug P9 (1) from jack J29 (2) of Power Control Enclosure.
2. Measure resistance between plugs P1 (3) and P9 (1) of cable W35.
3. Does multimeter read 0 ohms?



NO

A4YN

1. Replace cable W35 (WP 0849 00).
2. Verify no faults found.

YES

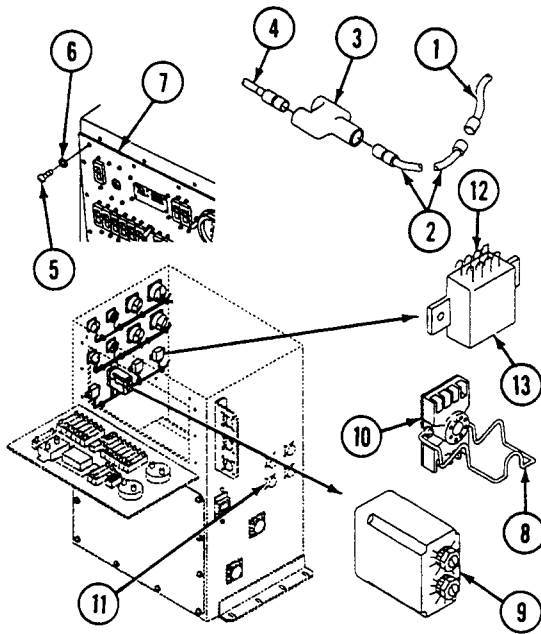
A5Y

WARNING



Make sure ALL AC external and internal power is OFF.

1. Install front light lead 38B (1) on cable W28 P2 (2) and cable to plug P1 of adapter (3).
2. Install rear domelight lead 38B (4) on plug P3 of adapter (3).
3. Remove ten screws (5) and lockwashers (6), and lower faceplate (7). Discard lockwashers.
4. Lift relay bail (8) and remove XK2 relay (9) from relay socket (10).
5. Measure resistance between jack J29 center pin (11) and pin X1 (12) of relay XK5 (13).
6. Does multimeter read 0 ohms?



YES

NO

A5YN

1. Faulty inside lead 34A of Power Control Enclosure. Beyond unit maintenance repair.
2. Notify Supervisor.

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)—Continued

0101 00

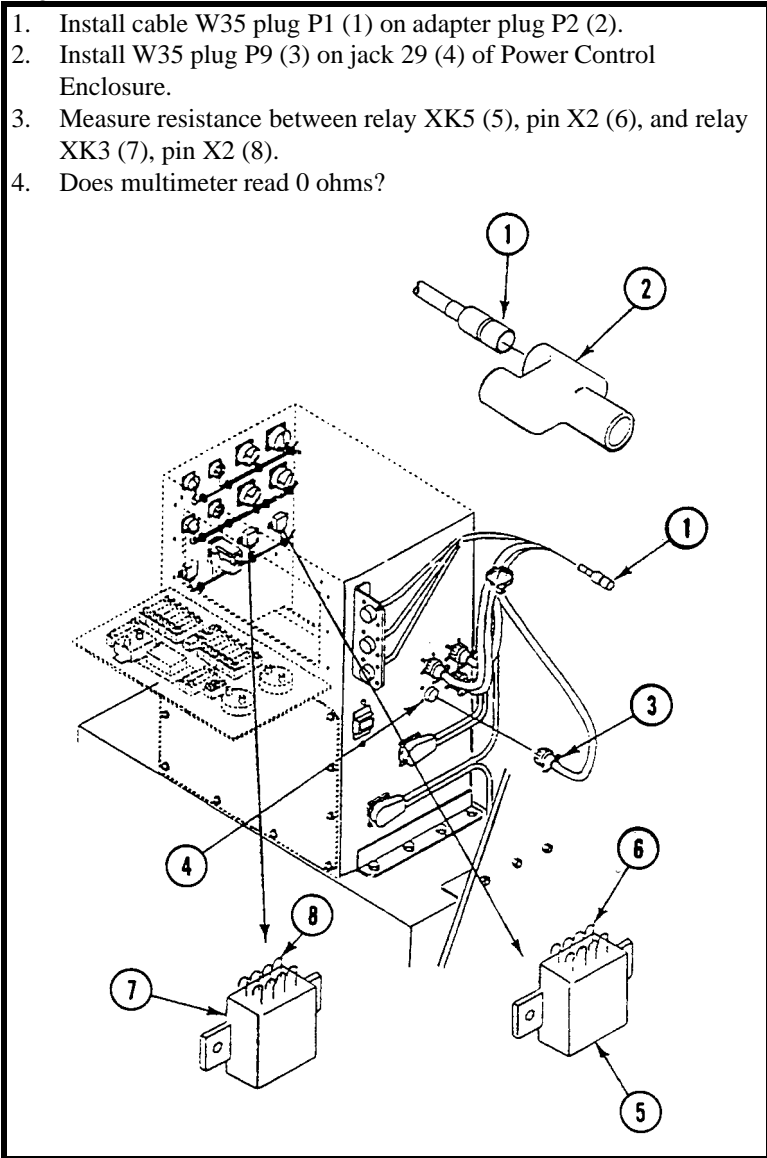
A6Y

1. Install cable W35 plug P1 (1) on adapter plug P2 (2).
2. Install W35 plug P9 (3) on jack 29 (4) of Power Control Enclosure.
3. Measure resistance between relay XK5 (5), pin X2 (6), and relay XK3 (7), pin X2 (8).
4. Does multimeter read 0 ohms?

NO

A6YN

1. Faulty lead 3F of XK2. Beyond unit maintenance repair.
2. Notify Supervisor.



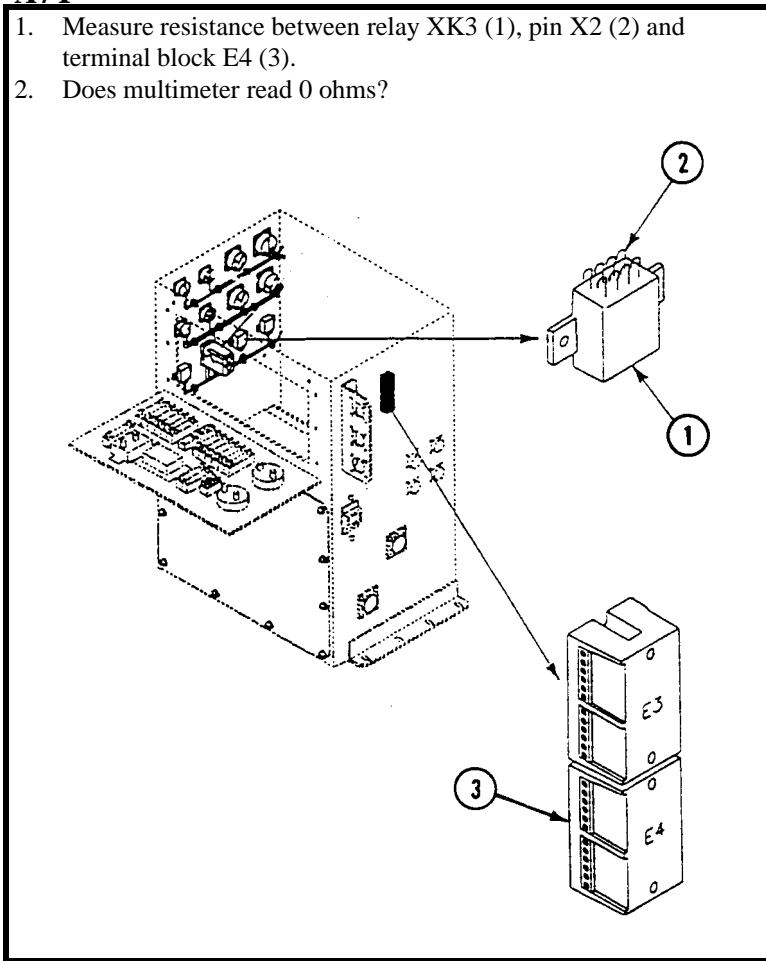
YES

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)—Continued

0101 00

A7Y

1. Measure resistance between relay XK3 (1), pin X2 (2) and terminal block E4 (3).
2. Does multimeter read 0 ohms?



NO

A7YN

1. Faulty lead 3E of XK3. Beyond unit maintenance repair.
2. Notify Supervisor.

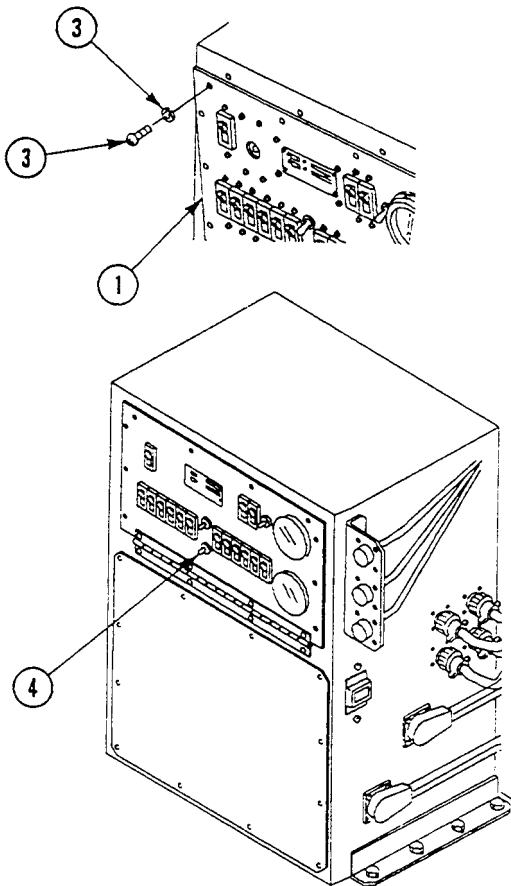
YES

IN BLACKOUT MODE, FLUORESCENT LIGHTS OPERATE INCORRECTLY (M1068A3 ONLY)—Continued

0101 00

A8Y

1. Lift relay bail and install XK2 relay on relay socket.
2. Raise faceplate (1) and secure to enclosure with ten new lockwashers (2) and screws (3).
3. Set MASTER SWITCH to ON. Set vehicle BLACKOUT LIGHT to ON. Be sure ramp door is open.
4. Apply AC power to SICPS system. Set BLACKOUT ENABLE switch (4) on Power Control Enclosure panel in upward position (TM 11-7010-256-12&P).
5. Do fluorescent lights illuminate?



NO

A8YN

1. Faulty relay XK5. Beyond unit maintenance repair.
2. Notify Supervisor.

YES

A9Y

1. Verify no faults found.

FLUORESCENT LIGHTS DO NOT OPERATE (M1068A3 ONLY)

0102 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 10-5410-229-13&P
 TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
 Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

Personnel Required

Power-Generation Equipment Repairer 52D10
 Helper (H)

WARNING



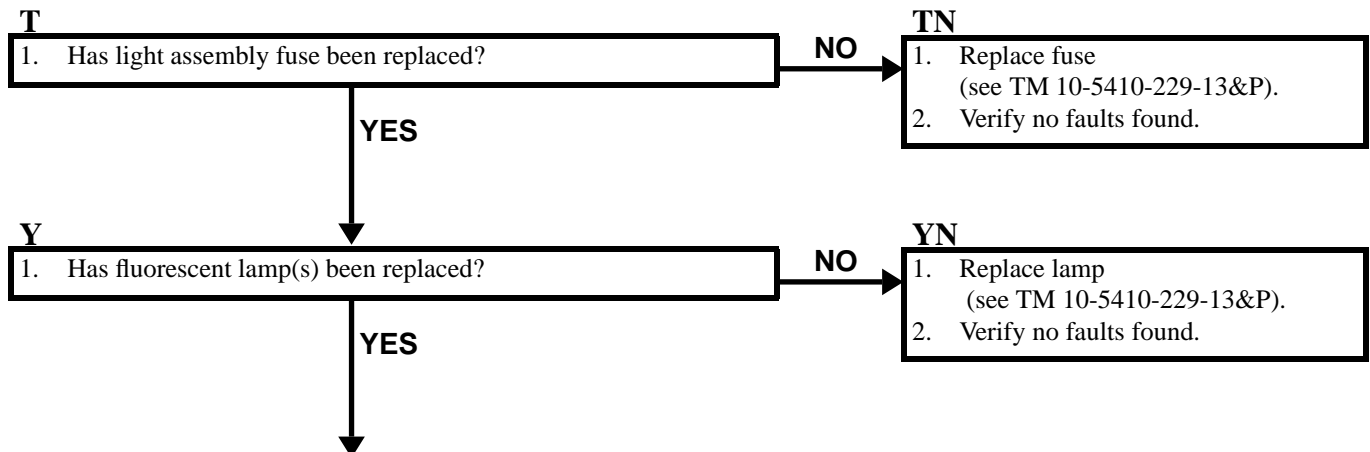
HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

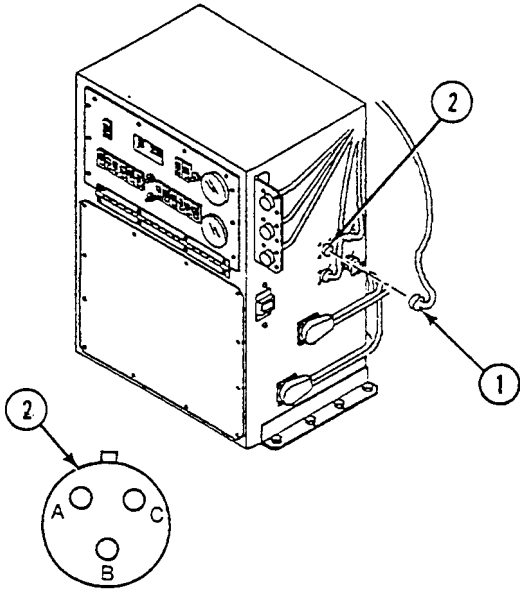
SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.



2Y

1. Remove all power (see your -10 and TM 11-7010-256-12&P).
2. Remove cable W11, plug P17 (1) from power control enclosure jack J37 (2).
3. Apply AC power and set AC LIGHTS and BLACKOUT ENABLE switches to upward position (see TM 11-7101-256-12&P).
4. Measure voltage between sockets A and B of jack J37 (2).
5. Does multimeter read 110 volts AC or more?



NO

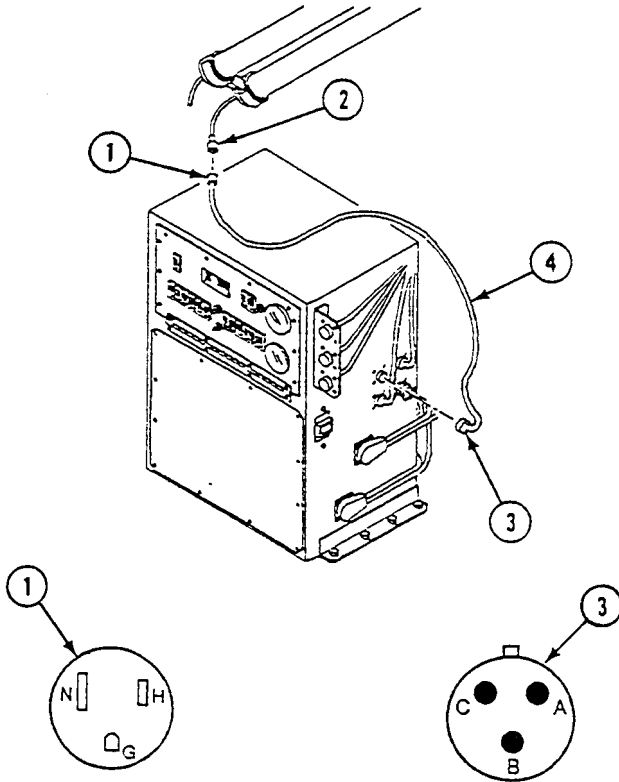
2YN

1. Go to: No Power To AC Circuits (M1068A3 Only) (WP 0107 00).

YES

3Y

1. Set power control enclosure AC MAIN switch to OFF (see TM 11-7010-256-12&P).
2. Remove cable W11 plug P2 (1) from light assembly plug P1 (2).
3. Measure resistance between sockets of P2 (1) and pins of plug P17 (3) on cable W11 (4) as follows:
 P2 socket H to P17 pin A
 P2 socket N to P17 pin B
 P2 socket G to P17 pin C
4. Does multimeter read 0 ohms for each measurement?



NO

3YN

1. Replace cable W11 (WP 0845 00).
2. Verify no faults found.

YES

4Y

1. Replace/repair light set assembly (WP 0825 00 and TM 10-5410-229-13&P).

**VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED
(M1068A3 ONLY)**

0103 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwashers (22)

Personnel Required

Power-generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

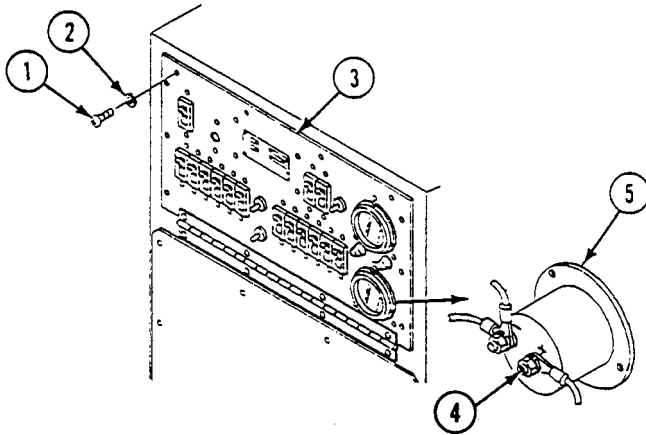
BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

T

1. Remove ten screws (1), lockwashers (2), and lower faceplate (3) on Power Control Enclosure. Discard lockwashers.
2. Set MASTER SWITCH to ON.
3. Measure voltage between positive (+) terminal (4) on meter M2 (5) and ground.
4. Does multimeter read 22 volts DC or more?



NO

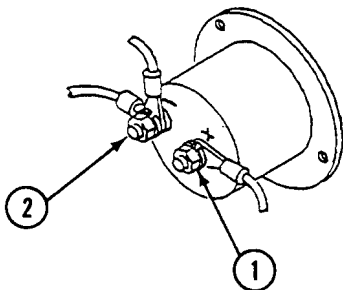
TN

1. Go to: Power Control Enclosure A1 DC Input/Output Inoperative (M1068A3 Only) (WP 0090 00).

YES

Y

1. Measure voltage between positive (+) terminal (1) and negative (-) terminal (2) of Power Control Enclosure A1 meter M2 (3).
2. Does multimeter read 22 volts DC or more?



NO

YN

1. Replace Power Control Enclosure A1 meter M2 (WP 0827 00).
2. Verify no faults found.

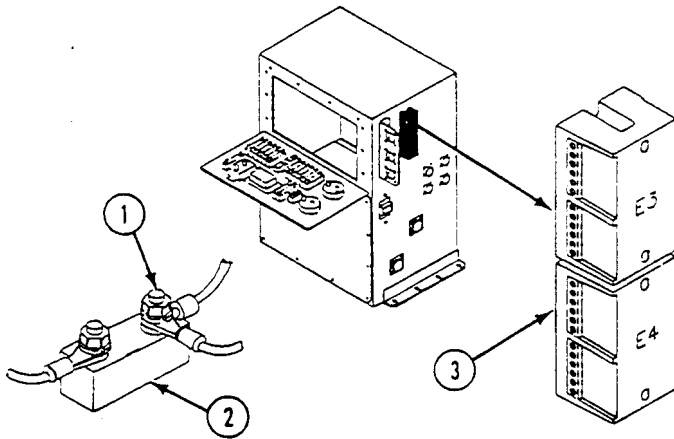
YES

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

2Y

1. Set MASTER SWITCH to OFF.
2. Apply external AC power to SICPS vehicle (TM 11-7010-256-12&P).
3. Measure voltage between terminal 1 (1) of circuit breaker CB1 (2) and terminal block E4 (3).
4. Does multimeter read 110 volts AC or more?



YES



NO

2YN

1. Go to: Vehicle Will Not Accept External AC Power (M1068A3 Only) (WP 0104 00).

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

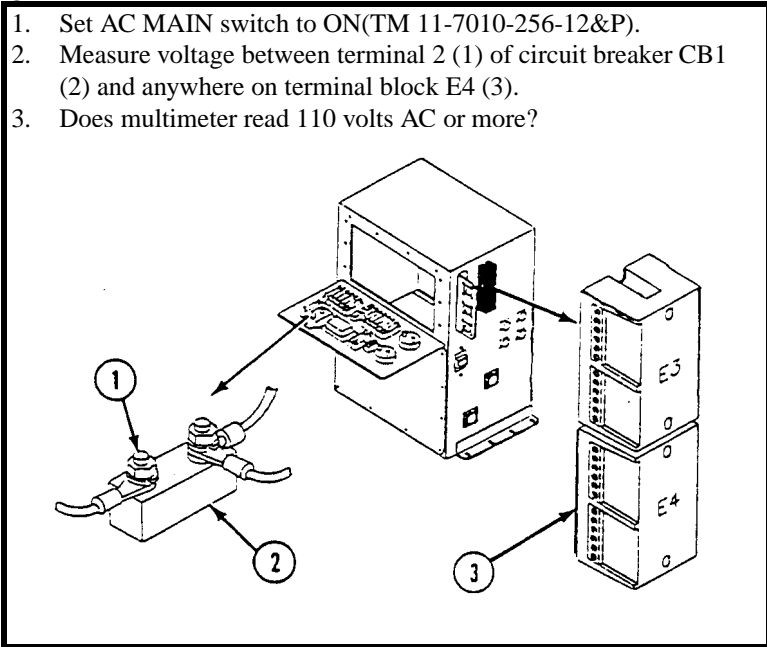
3Y

1. Set AC MAIN switch to ON(TM 11-7010-256-12&P).
2. Measure voltage between terminal 2 (1) of circuit breaker CB1 (2) and anywhere on terminal block E4 (3).
3. Does multimeter read 110 volts AC or more?

NO

3YN

1. Replace circuit breaker CB1 (WP 0828 00).
2. Verify no faults found.



YES

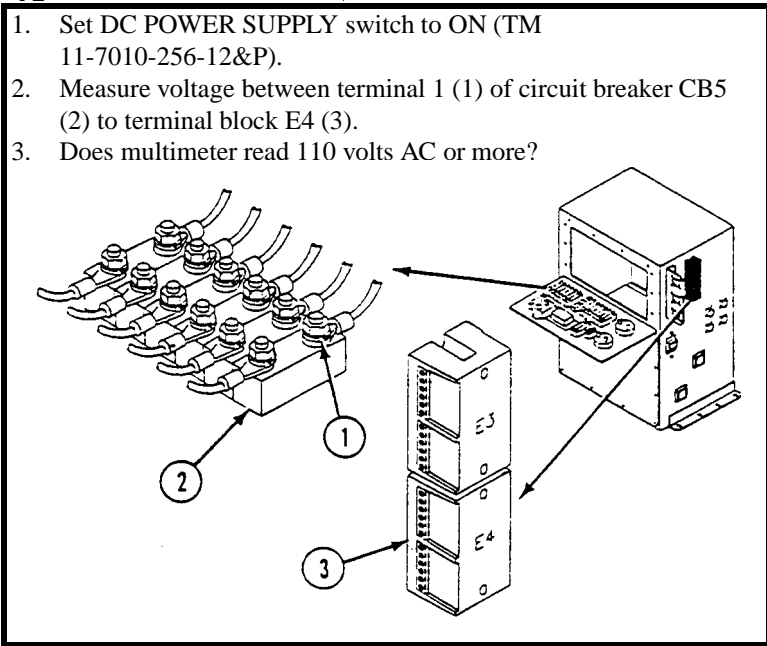
4Y

1. Set DC POWER SUPPLY switch to ON (TM 11-7010-256-12&P).
2. Measure voltage between terminal 1 (1) of circuit breaker CB5 (2) to terminal block E4 (3).
3. Does multimeter read 110 volts AC or more?

NO

4YN

1. Faulty circuit 9D. Beyond unit maintenance repair.
2. Notify supervisor.



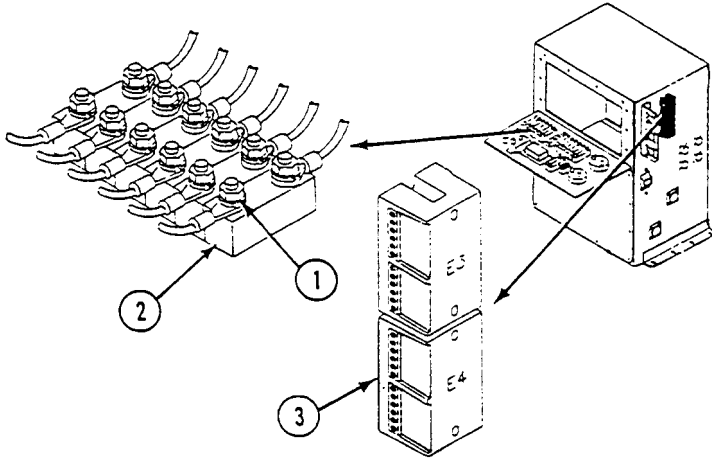
YES

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

5Y

1. Measure voltage between terminal 2 (1) of circuit breaker CB5 (2) and terminal block E4 (3).
2. Does multimeter read 110 volts AC or more?



NO

5YN

1. Replace circuit breaker CB5 (WP 0828 00).
2. Verify no faults found.

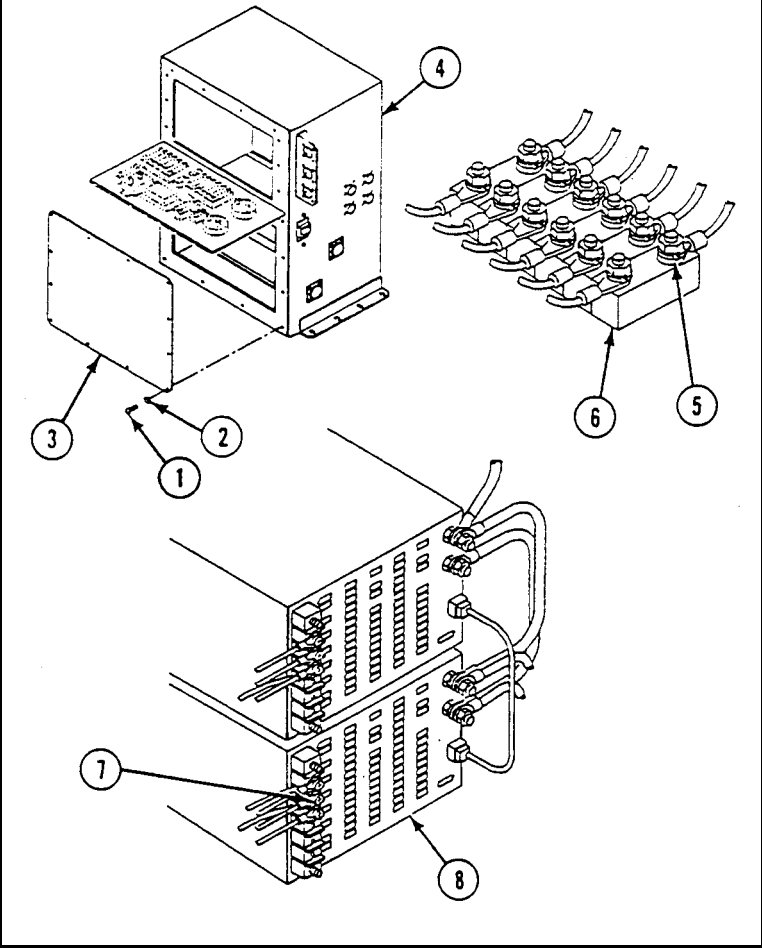
YES

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

6Y

1. Turn OFF AC and DC Power (TM 11-7010-256-12&P).
2. Remove 12 screws (1), lockwashers (2), and cover (3) from Power Control Enclosure (4). Discard lockwashers.
3. Measure resistance between terminal 2 (5) of circuit breaker CB5 (6) and AC HIGH terminal (7) of power supply PS2 (8).
4. Does multimeter read 0 ohms?



NO

6YN

1. Faulty circuit 10A. Beyond unit maintenance repair.
2. Notify supervisor.

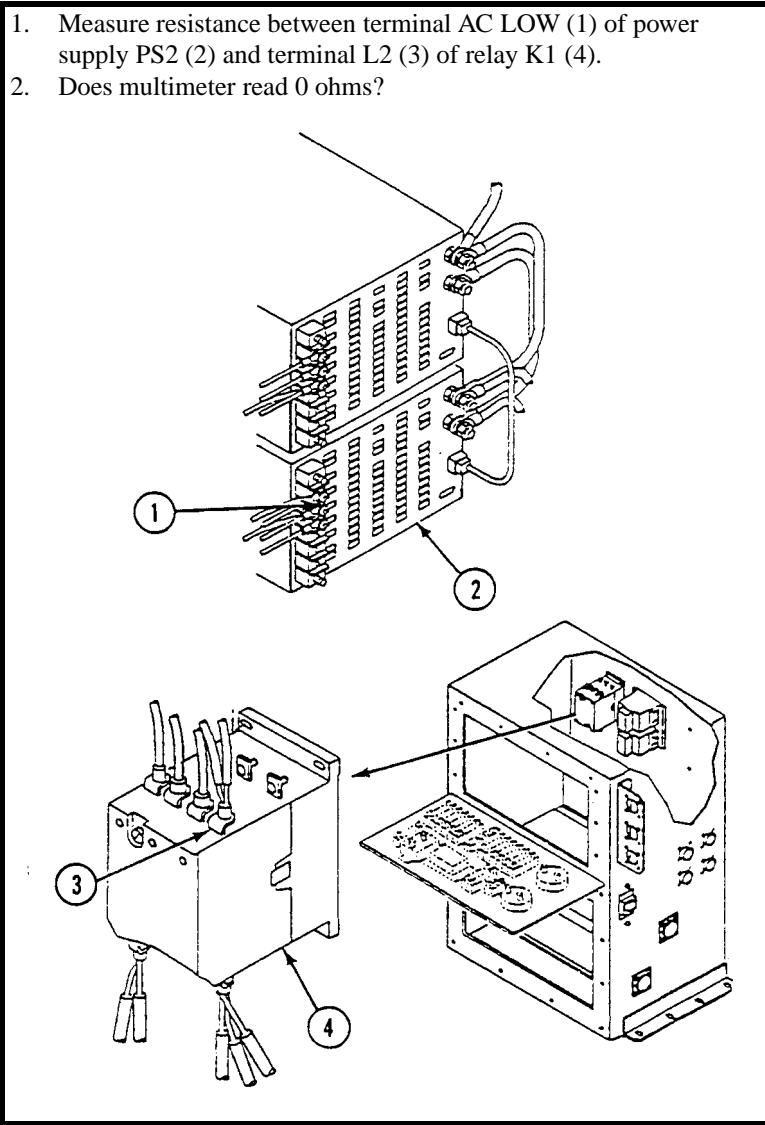
YES

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

7Y

1. Measure resistance between terminal AC LOW (1) of power supply PS2 (2) and terminal L2 (3) of relay K1 (4).
2. Does multimeter read 0 ohms?



NO

7YN

1. Faulty circuit 8B. Beyond unit maintenance repair.
2. Notify supervisor.

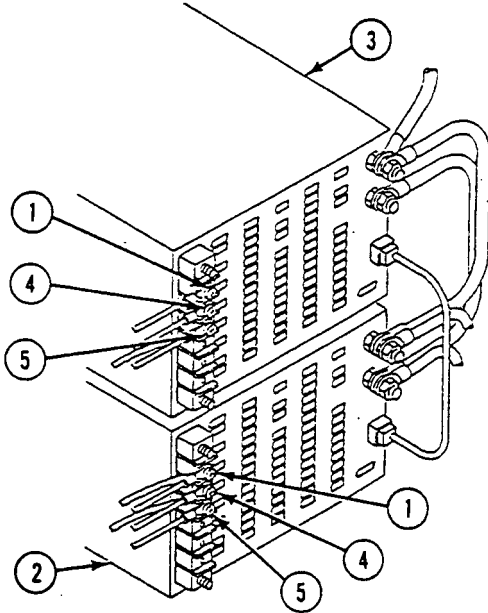
YES

VEHICLE BATTERIES DISCHARGE WITH EXTERNAL AC POWER APPLIED (M1068A3 ONLY)—Continued

0103 00

8Y

1. Measure resistance between circuit 10B terminals (1) on power supply PS2 (2) and power supply PS1 (3).
2. Measure resistance between circuit 8C terminals (4) on power supply PS2 (2) and power supply PS1 (3).
3. Measure resistance between circuit 3Z terminals (5) on power supply PS2 (2) and power supply PS1 (3).
4. Does multimeter read 0 ohms for each measurement?

**NO****8YN**

1. Faulty circuit 10B, 8C, and/or 3Z. Beyond unit maintenance repair.
2. Notify supervisor.

YES**9Y**

1. Install 12 screws, new lockwashers, and cover on Power Control Enclosure A1.
2. Raise faceplate on Power Control Enclosure A1 and secure with ten screws and new lockwashers.
3. Faulty power supply(s). Beyond unit maintenance repair.
4. Notify supervisor.

VEHICLE WILL NOT ACCEPT EXTERNAL AC POWER (M1068A3 ONLY)

0104 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Vehicle grounded (see your -10) and
(TM 11-7010-256-12&P)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



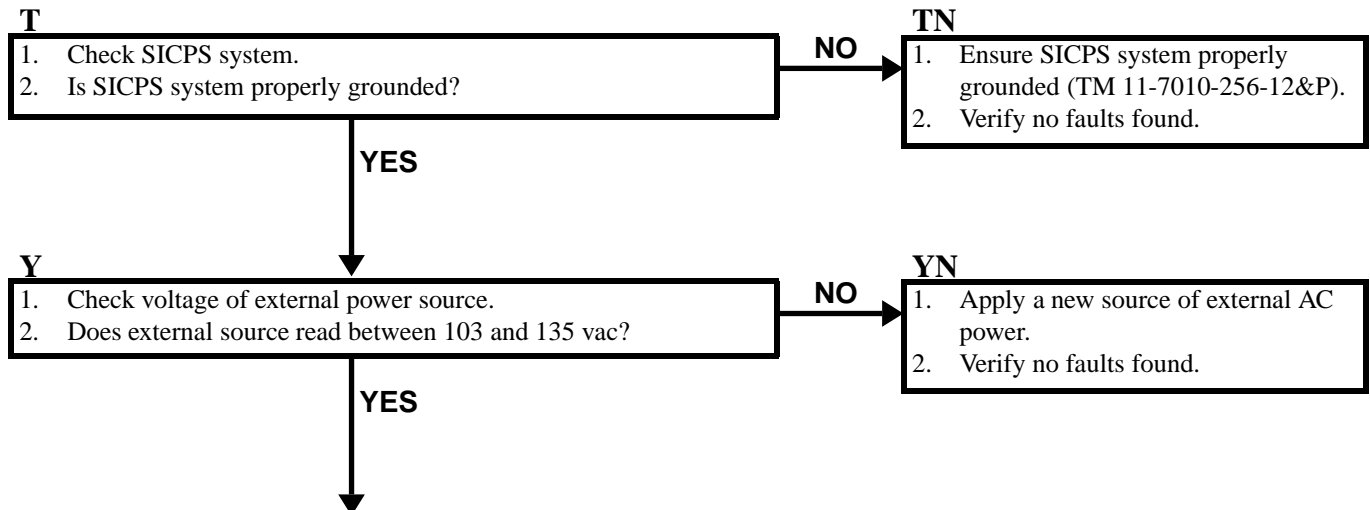
HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

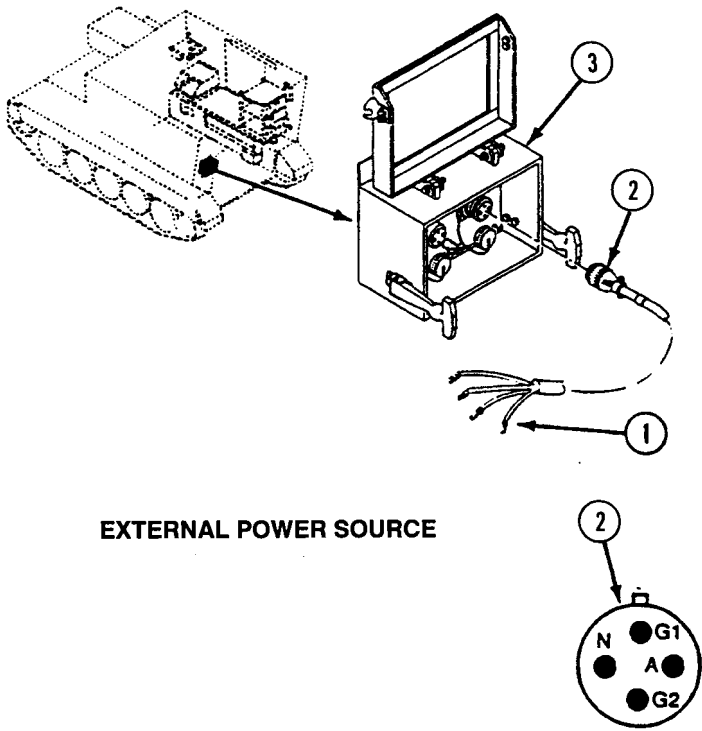
SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.



2Y

1. Apply external source of AC power to SICPS vehicle (TM 11-7010-256-12&P).
2. Remove cable W1 leads (1) from external power source, if applicable.
3. Remove cable W2, J1 (2) from Power Entry Box (3).
4. Measure resistance between W1 leads and W2 plug J1 (2) as follows:
 - W1 HOT to J1 pin A
 - W1 NEU to J1 pin N
 - W1 GND1 to J1 pin G1
 - W1 GND2 to J1 pin G2
5. Does multimeter read 0 ohms for all readings?



EXTERNAL POWER SOURCE

NO

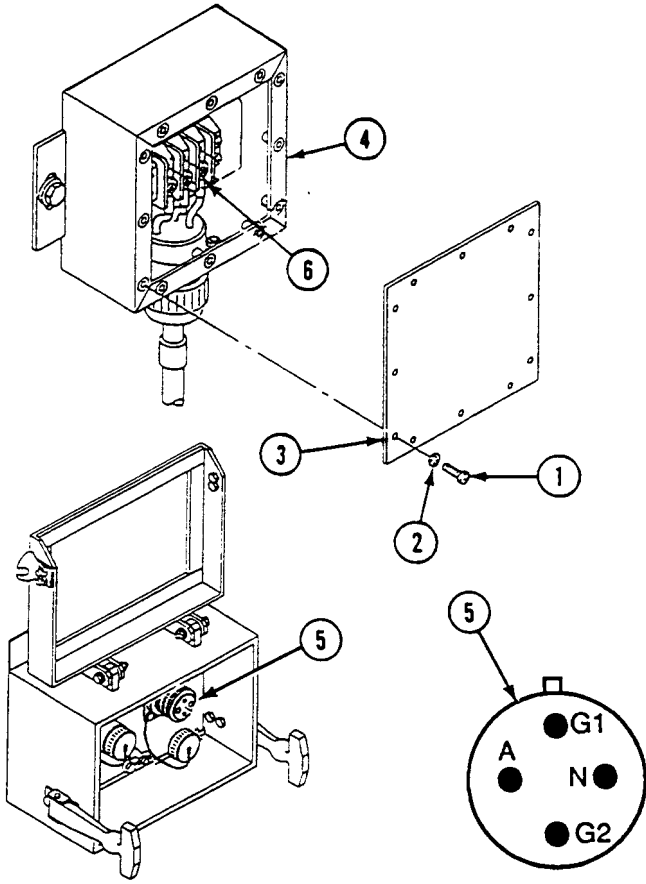
2YN

1. Replace cable W1/2 (see TM 11-7010-256-12&P).
2. Verify no faults found.

YES

3Y

1. Remove 12 screws (1), lockwashers (2), and cover (3) from Power Distribution Box (4).
2. Measure resistance between Power Entry Box A4 plug P1 (5) and Power Distribution Box A3 (4) terminal block as follows:
 - P1 socket A to post E1
 - P1 socket N to post E2
 - P1 socket G1 to post E3
 - P1 socket G2 to post E3
3. Does multimeter read 0 ohms for each reading?



YES
↓

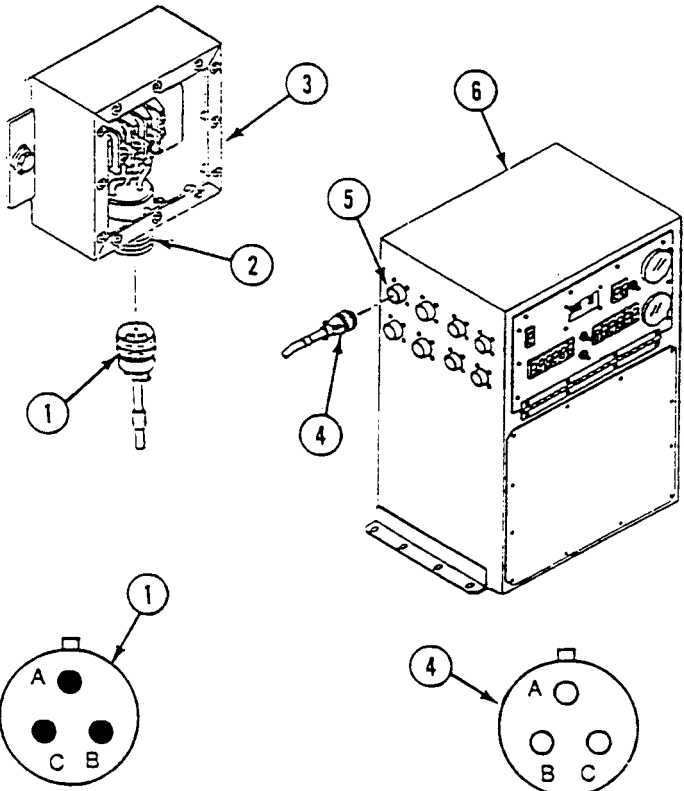
NO →

3YN

1. Replace Power Entry Box Assembly A4 (M1068A3 Only) (WP 0832 00).
2. Verify no faults found.

4Y

1. Remove cable W3 plug P1 (1) from jack J1 (2) on Power Distribution Box (3) and plug P3 (4) from jack J24 (5) on Power Control Enclosure (6).
2. Measure resistance between plug P1 (1) and plug P3 (4) as follows:
 - P1 pin A to P3 socket A
 - P1 pin B to P3 socket B
 - P1 pin C to P3 socket C
3. Does multimeter read 0 ohms for each reading?



NO

4YN

1. Replace cable W3 (WP 0837 00).
2. Verify no faults found.

YES

5Y

1. Faulty Power Control Enclosure. Beyond unit maintenance repair.
2. Notify supervisor.

VEHICLE WILL NOT ACCEPT INVERTER AC POWER (M1068A3 ONLY)

0105 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)
Carrier grounded (see your -10) and
(TM 11-7010-256-12&P)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

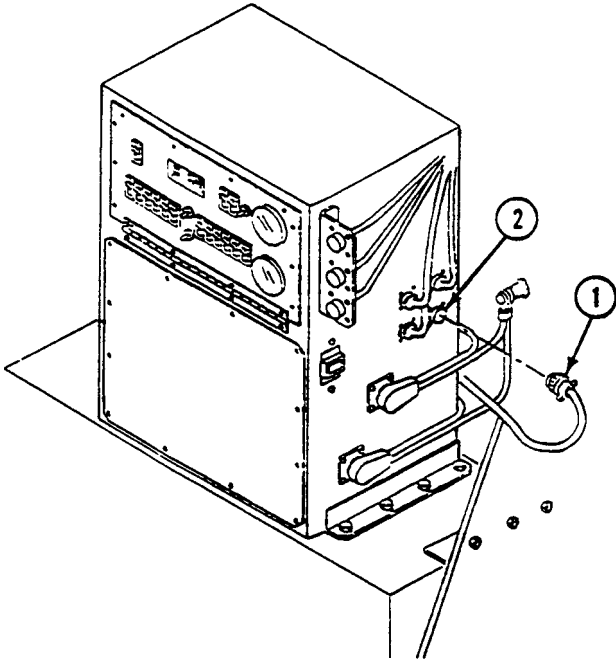
T

1. Remove all external power from SICPS system (see your -10) and (TM 11-7010-256-12&P).
2. Remove cable W5 plug P6 (1) from power enclosure jack J27 (2).
3. Turn MASTER POWER switch ON.
4. Turn on inverters (TM 11-7010-256-12&P).
5. Measure voltage between pins A and B of plug P6 (1). Repeat measure for pins C and D.
6. Does multimeter read 110 volts AC or more for both measurements?

NO

TN

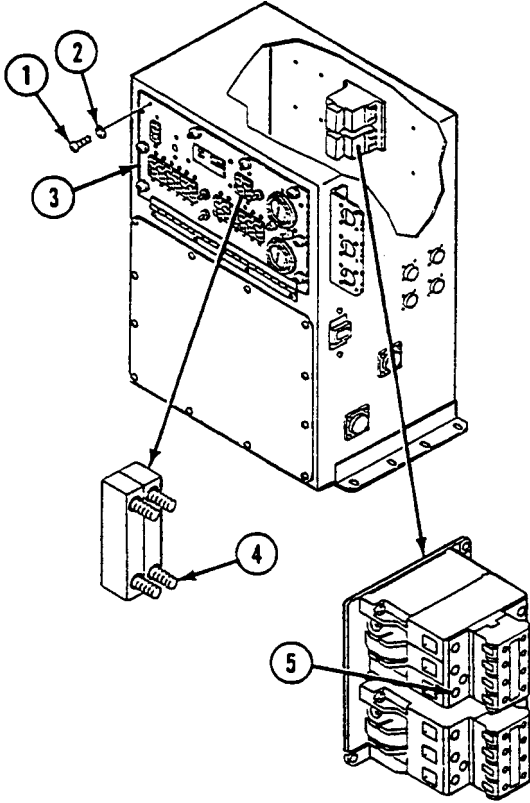
1. Go to: No AC Power From Inverters (M1068A3 Only) (WP 0109 00).



YES

Y

1. Turn MASTER POWER switch OFF.
2. Install cable W5 on power enclosure.
3. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
4. Measure resistance between circuit breaker CB3 pin 2 (4) and reversing contactor RC1-REV terminal L1 (5).
5. Does multimeter read 0 ohms?



NO

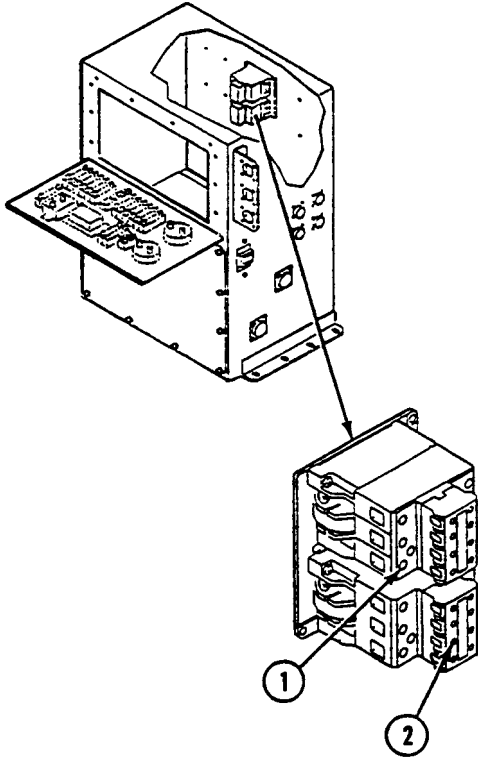
YN

1. Faulty lead 13A. Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Measure resistance between reversing contactor RC1-REV terminal L1 (1) and reversing contactor RC1-FWD terminal 51 (2).
2. Does multimeter read 0 ohms?



NO

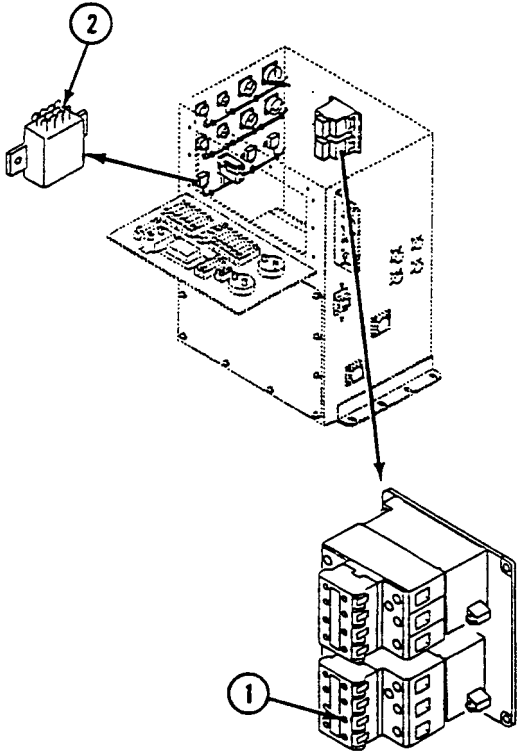
2YN

1. Faulty lead 13D. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Measure resistance between reversing contactor RC1-FWD terminal 52 (1) and relay K4 terminal A3 (2).
2. Does multimeter read 0 ohms?



YES



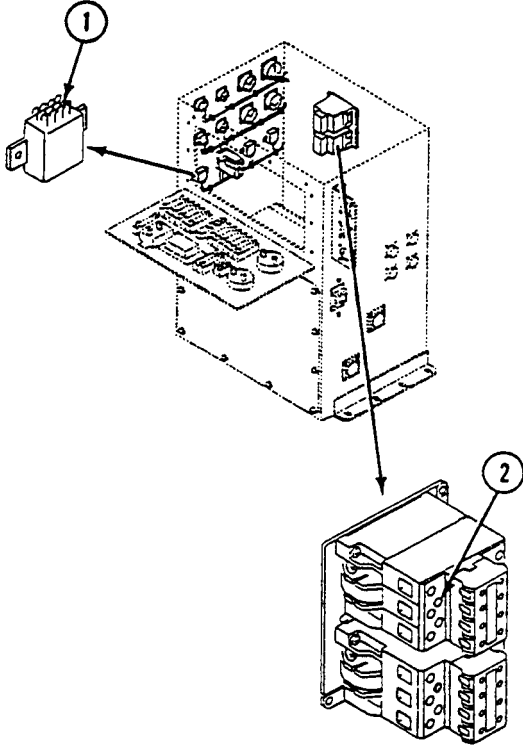
NO

3YN

1. Faulty lead 14A. Beyond unit maintenance repair.
2. Notify supervisor.

4Y

1. Measure resistance between relay K4 terminal A2 (1) and reversing contactor RC1-REV terminal A2 (2).
2. Does multimeter read 0 ohms?



NO

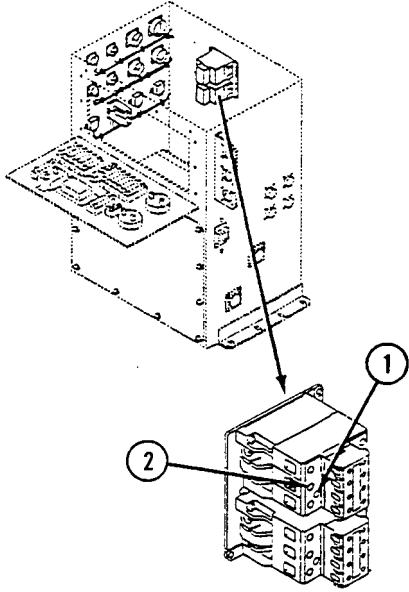
4YN

1. Faulty lead 16A. Beyond unit maintenance repair.
2. Notify supervisor.

YES

5Y

1. Measure resistance between reversing contactor RC1-REV terminal A1 (1) and terminal L2 (2).
2. Does multimeter read 0 ohms?



YES

NO

5YN

1. Faulty lead 28D. Beyond unit maintenance repair.
2. Notify supervisor.

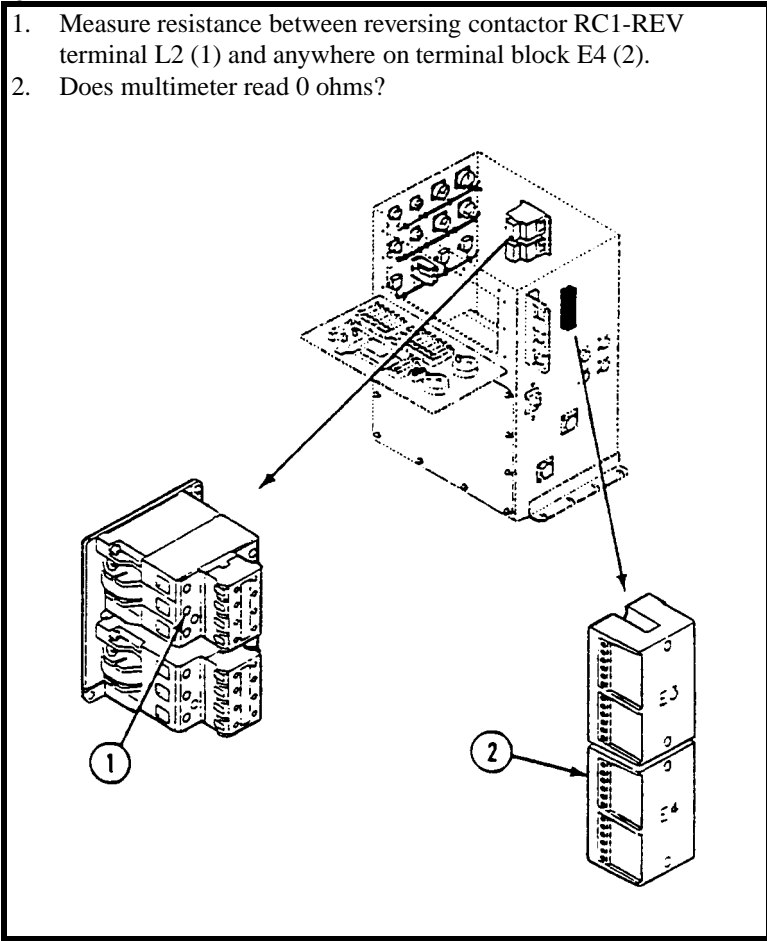
6Y

1. Measure resistance between reversing contactor RC1-REV terminal L2 (1) and anywhere on terminal block E4 (2).
2. Does multimeter read 0 ohms?

NO

6YN

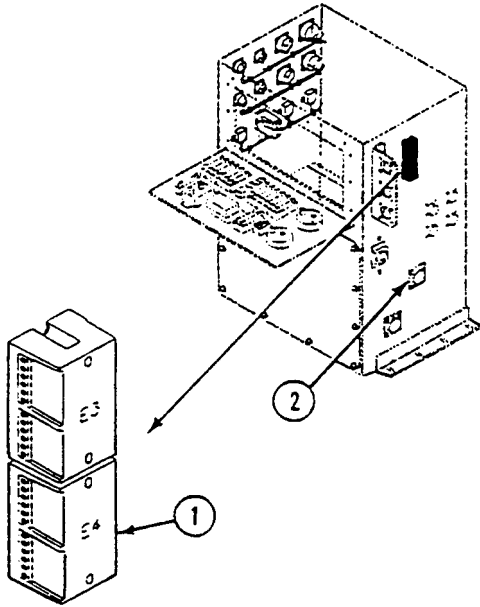
1. Faulty lead 28G. Beyond unit maintenance repair.
2. Notify supervisor.



YES

7Y

1. Measure resistance between anywhere on terminal block E4 (1) and power enclosure jack J26 outer shell (2).
2. Does multimeter read 0 ohms?



YES

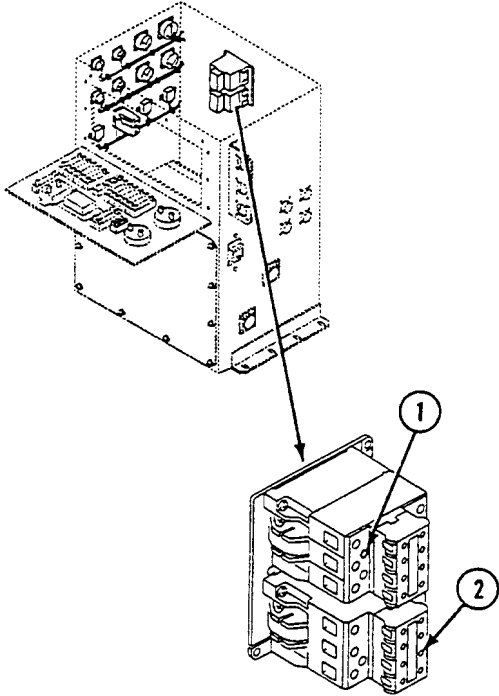
NO

7YN

1. Faulty lead 32C. Beyond unit maintenance repair.
2. Notify supervisor.

8Y

1. Measure resistance between reversing contactor RC1-REV terminal A2 (1) and reversing contactor RC1-FWD terminal 52 (2).
2. Does multimeter read 0 ohms?



NO

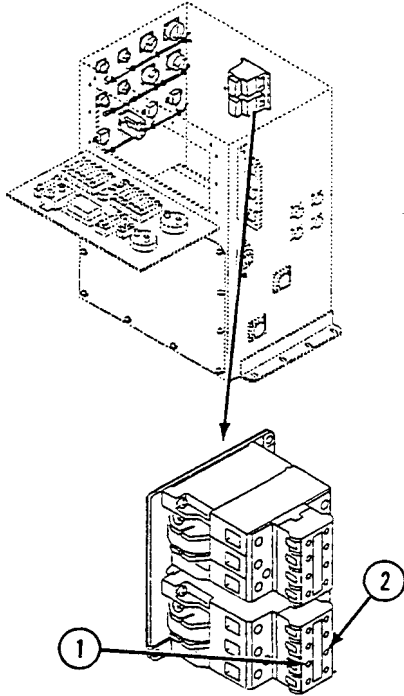
8YN

1. Faulty relay K4. Beyond unit maintenance repair.
2. Notify supervisor.

YES

9Y

1. Measure resistance between reversing contactor RC1-FWD terminal 51 (1) and terminal 52 (2).
2. Does multimeter read 0 ohms?



NO

9YN

1. Faulty reversing contactor. Beyond unit maintenance repair.
2. Notify supervisor.

YES

10Y

1. Raise faceplate and secure with ten new lockwashers and screws.
2. Verify no faults found.

NO POWER TO DC CIRCUITS (M1068A3 ONLY)

0106 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

References

See your -10
TM 11-7010-256-12&P

Materials/Parts

Lockwasher (22)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

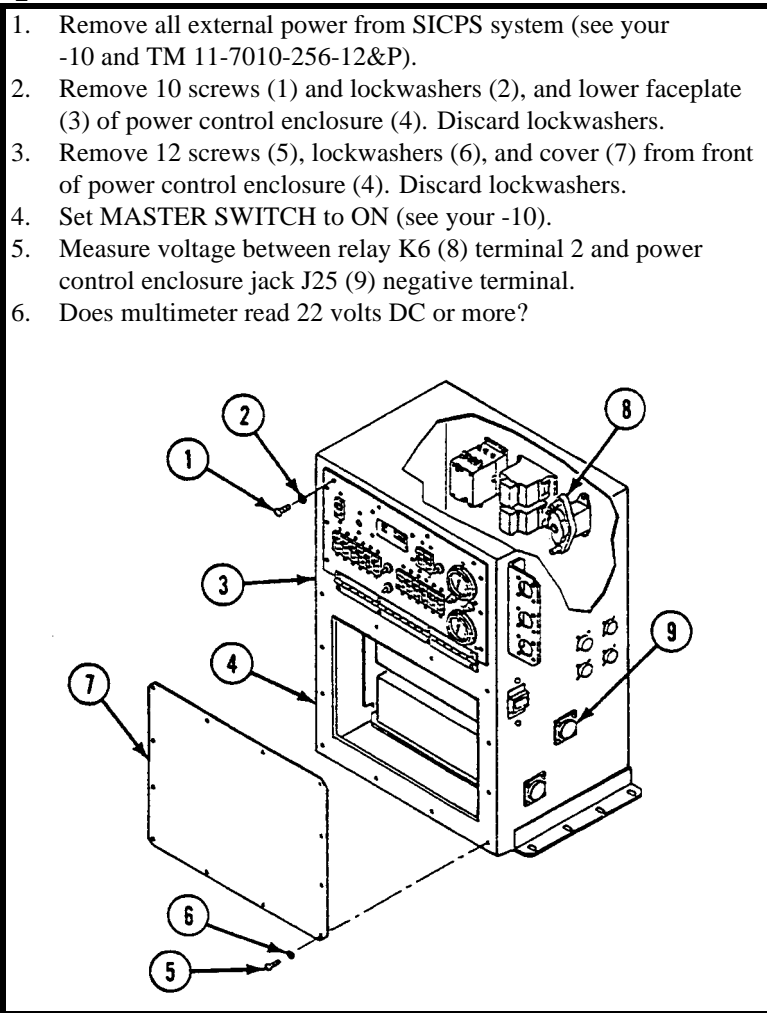
T

1. Remove all external power from SICPS system (see your -10 and TM 11-7010-256-12&P).
2. Remove 10 screws (1) and lockwashers (2), and lower faceplate (3) of power control enclosure (4). Discard lockwashers.
3. Remove 12 screws (5), lockwashers (6), and cover (7) from front of power control enclosure (4). Discard lockwashers.
4. Set MASTER SWITCH to ON (see your -10).
5. Measure voltage between relay K6 (8) terminal 2 and power control enclosure jack J25 (9) negative terminal.
6. Does multimeter read 22 volts DC or more?

NO

TN

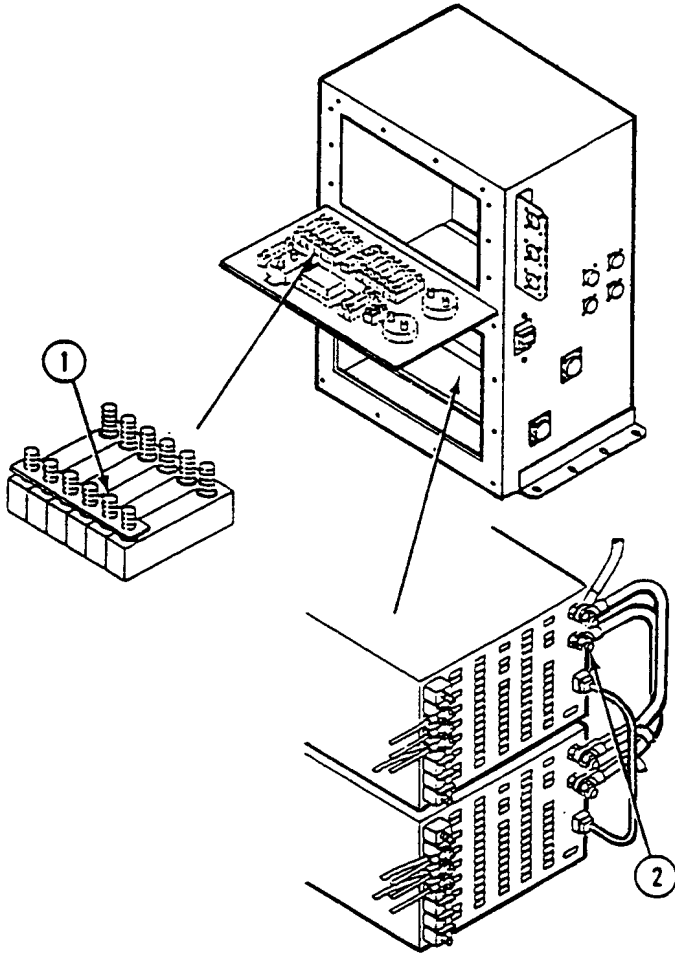
1. Go to Power Enclosure A1 DC Input/Output Inoperative (M1068A3 Only) (WP 0090 00).



YES

Y

1. Measure voltage between circuit breaker CB15 (1) terminal 1 at DC bus bar and power supply PS1 output negative terminal (2).
2. Does multimeter read 22 volts DC or more?



YES



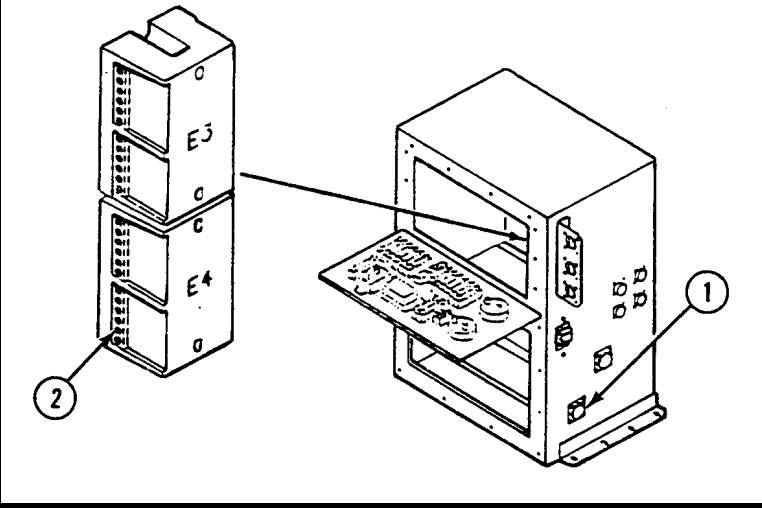
NO

YN

1. Go to Vehicle Batteries Discharge with External AC Power Applied (WP 0103 00).

2Y

1. Set MASTER SWITCH to OFF (see your -10).
2. Measure resistance of circuit 32C between power control enclosure jack J26 (1) and terminal block E4 terminal 2 (2).
3. Does multimeter read 0 ohms?



NO

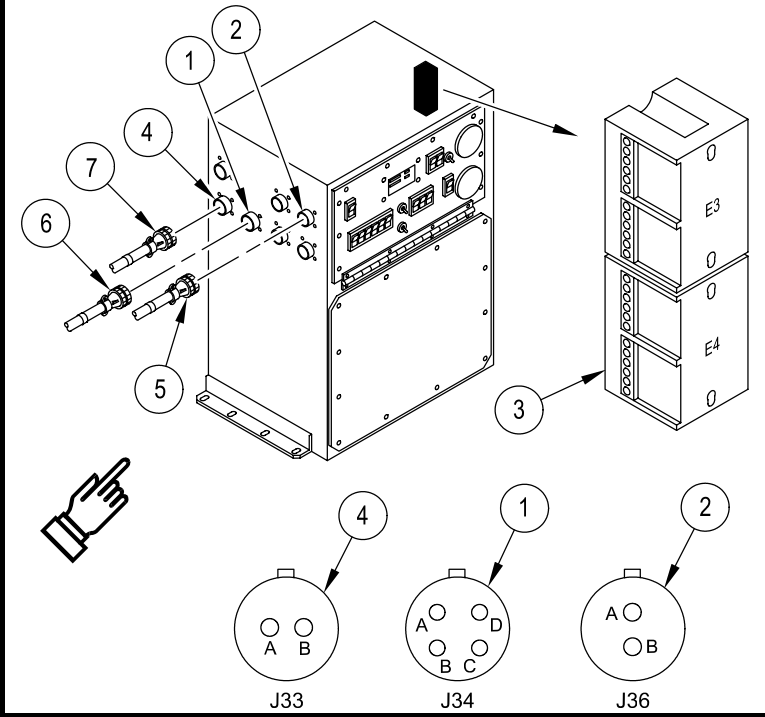
2YN

1. Faulty lead 32C in power control enclosure. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Remove the following cable plugs from jacks on power control enclosure:
 - W45 plug P13 (7) from jack J33 (4)
 - W10 plug P14 (6) from jack J34 (1)
 - W32 plug P16 (5) from jack J36 (2)
2. Measure resistance of the following leads between terminal block E4 (3) and the following jacks on Power Control Enclosure:
 - Lead 32G to J33 (4) socket B
 - Lead 32H to J34 (1) socket B
 - Lead 32J to J34 (1) socket D
 - Lead 32P to J36 (2) socket B
3. Does multimeter read 0 ohms for all readings?



YES



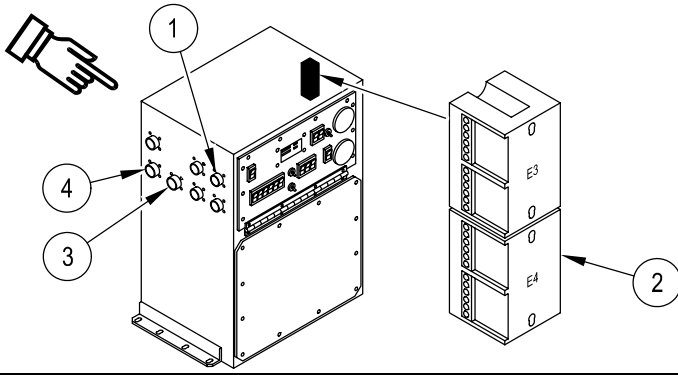
NO

3YN

1. Faulty leads 32G, H, J, and P in power control enclosure. Beyond unit maintenance repair.
2. Notify supervisor.

4Y

1. Set MASTER SWITCH to ON (see your -10).
2. Set all DC CIRCUITS circuit breakers on power control enclosure panel to ON.
3. Measure voltage between terminal block E4 (2) and the following jacks on Power Control Enclosure:
 J33 (4) socket A
 J34 (3) socket A
 J36 (1) socket A
4. Does multimeter read 22 volts DC or more for all readings?



YES

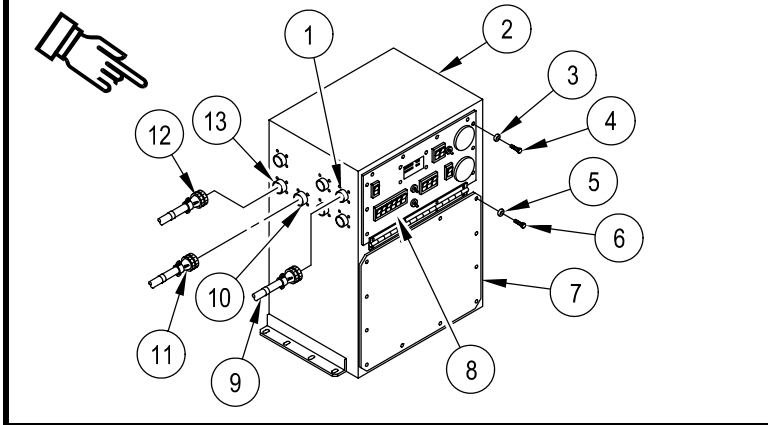
NO

4YN

1. Go to Power Enclosure A1 DC Input/Output Inoperative (WP 0090 00).

5Y

1. Install cover (7) on power control enclosure (2) and secure with 12 new lockwashers (5) and screws (6).
2. Raise faceplate (8) and secure to power control enclosure (2) with 10 new lockwashers (3) and screws (4).
3. Install the following cable plugs:
 - W45 plug P13 (12) on jack J33 (13)
 - W10 plug P14 (11) on jack J34 (10)
 - W32 plug P16 (9) on jack J36 (1)
4. Verify no faults found.



NO POWER TO AC CIRCUITS (M1068A3 ONLY)

0107 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with operation and hazards of equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is **OFF/disconnected**.

BE CAREFUL not to touch high-voltage connections when installing or operating this equipment.

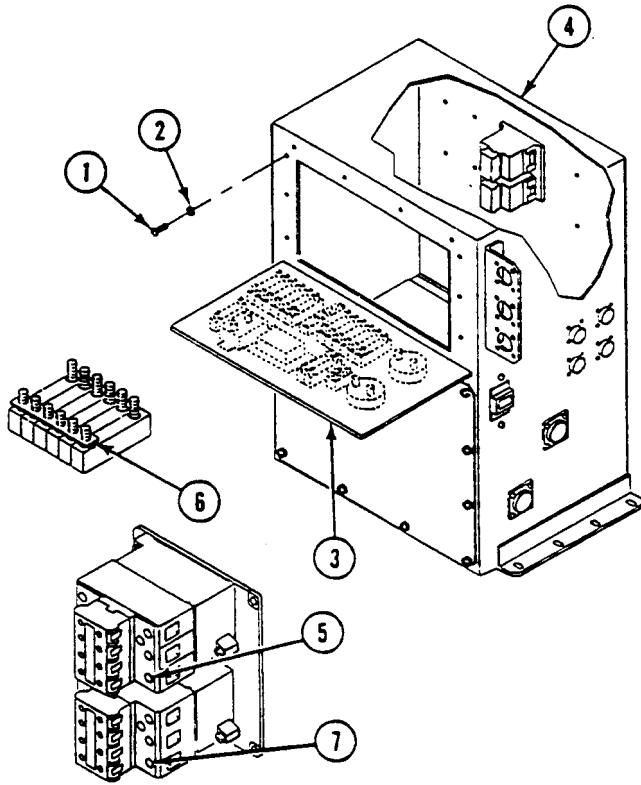
T

1. Turn off all power from SICPS system (see your -10 and TM 11-7010-256-12&P).
2. Remove ten screws (1), lockwashers (2), and lower faceplate (3) of power enclosure (4). Discard lockwashers.
3. Measure resistance of circuit 17B between reversing contactor reverse terminal T1 (5) and circuit breaker CB10 terminal 1 (6).
4. Measure resistance of circuit 17A between terminal T1 and forward terminal T1 (7).
5. Does multimeter read 0 ohms for both readings?

NO

TN

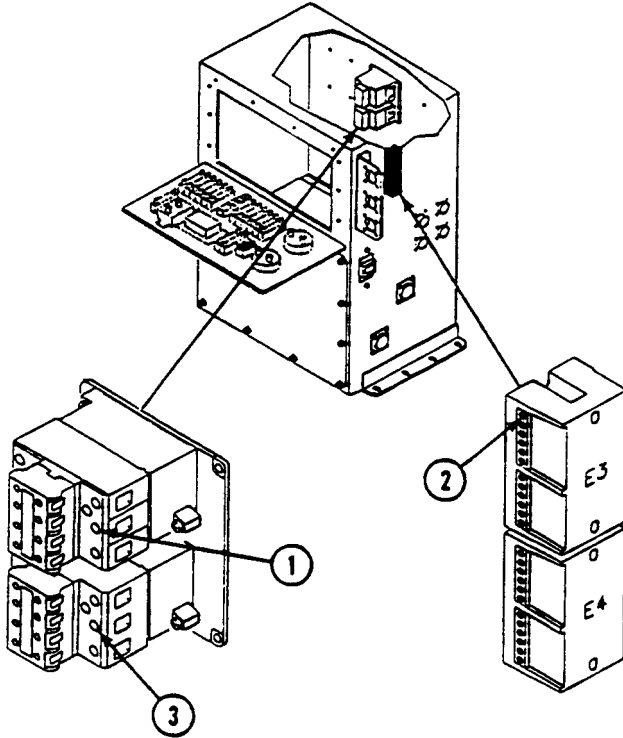
1. Faulty lead 17A and/or lead 17B. Beyond unit maintenance repair.
2. Notify supervisor.



YES

Y

1. Measure resistance of circuit 18B between reversing contactor reverse terminal T2 (1) and terminal block E3 terminal 1 (2).
2. Measure resistance of circuit 18A between terminal T2 (1) and forward terminal T2 (3).
3. Does multimeter read 0 ohms for both readings?



NO

YN

1. Faulty lead 18A and/or lead 18B. Beyond unit maintenance repair.
2. Notify supervisor.

YES

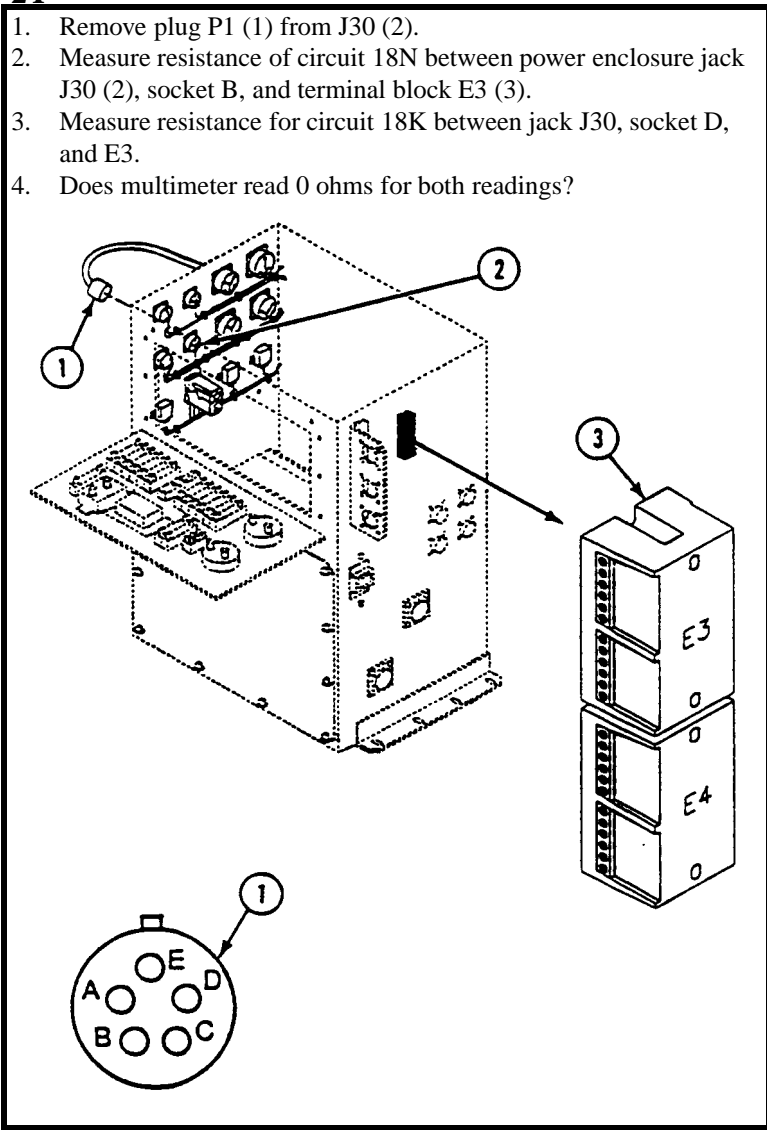
2Y

1. Remove plug P1 (1) from J30 (2).
2. Measure resistance of circuit 18N between power enclosure jack J30 (2), socket B, and terminal block E3 (3).
3. Measure resistance for circuit 18K between jack J30, socket D, and E3.
4. Does multimeter read 0 ohms for both readings?

NO

2YN

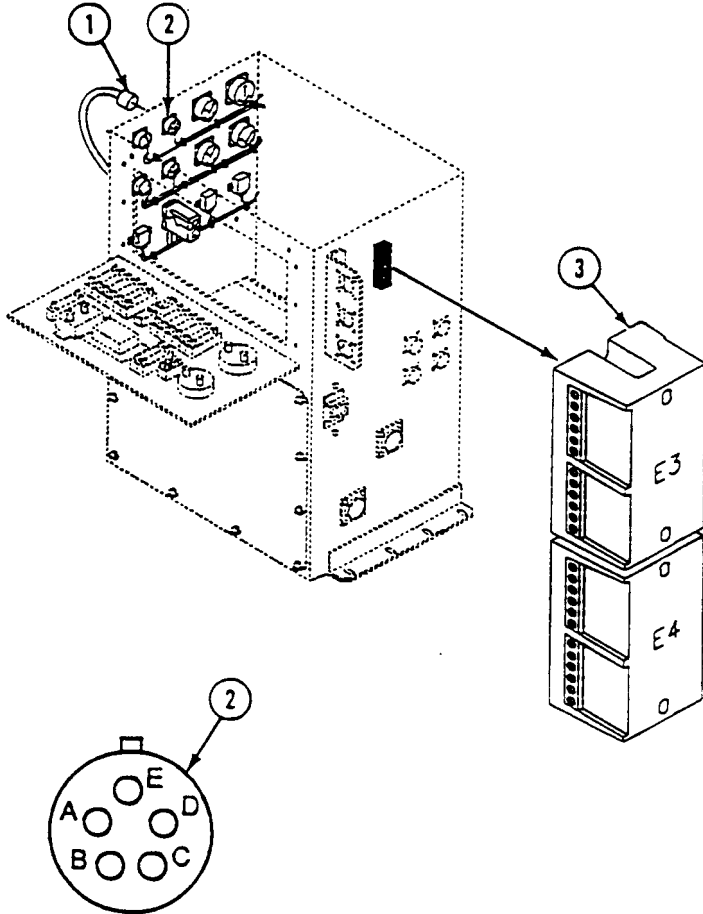
1. Faulty lead 18N and/or lead 18K.
Beyond unit maintenance repair.
2. Notify supervisor.



YES

3Y

1. Remove plug P11 (1) from J31 (2).
2. Measure resistance of circuit 18H between power enclosure jack J31 (2), socket B, and terminal block E3 (3).
3. Measure resistance for circuit 18E between jack J31, socket D, and E3.
4. Does multimeter read 0 ohms for both readings?



3YN

1. Faulty lead 18E and/or lead 18H. Beyond unit maintenance repair.
2. Notify supervisor.

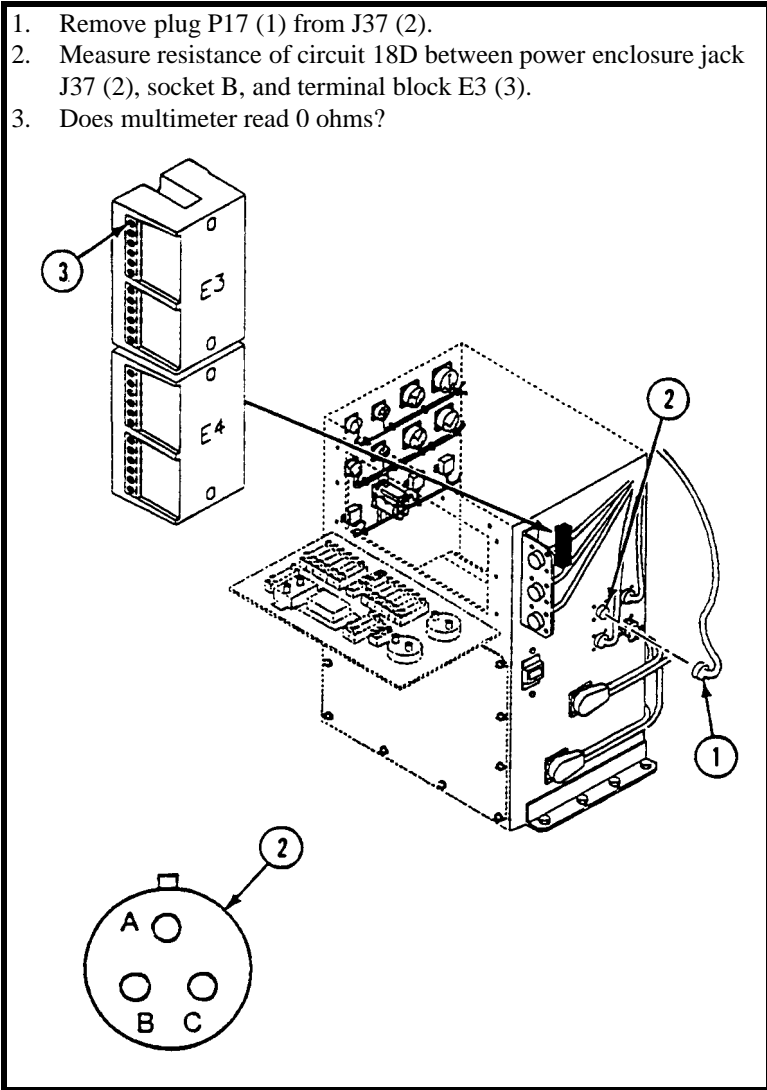
4Y

1. Remove plug P17 (1) from J37 (2).
2. Measure resistance of circuit 18D between power enclosure jack J37 (2), socket B, and terminal block E3 (3).
3. Does multimeter read 0 ohms?

NO

4YN

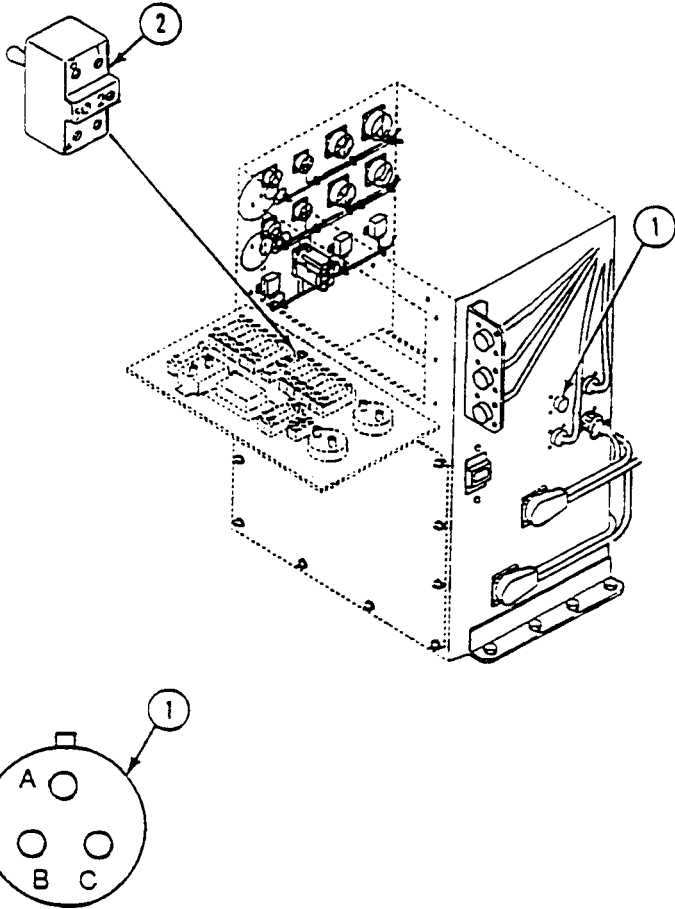
1. Faulty lead 18D. Beyond unit maintenance repair.
2. Notify supervisor.



YES

5Y

1. Set BLACKOUT ENABLE switch to upward position.
2. Measure resistance of circuit 20B between power enclosure jack J37 (1), socket A, and BLACKOUT ENABLE switch S1 (2), terminal 3.
3. Does multimeter read 0 ohms?

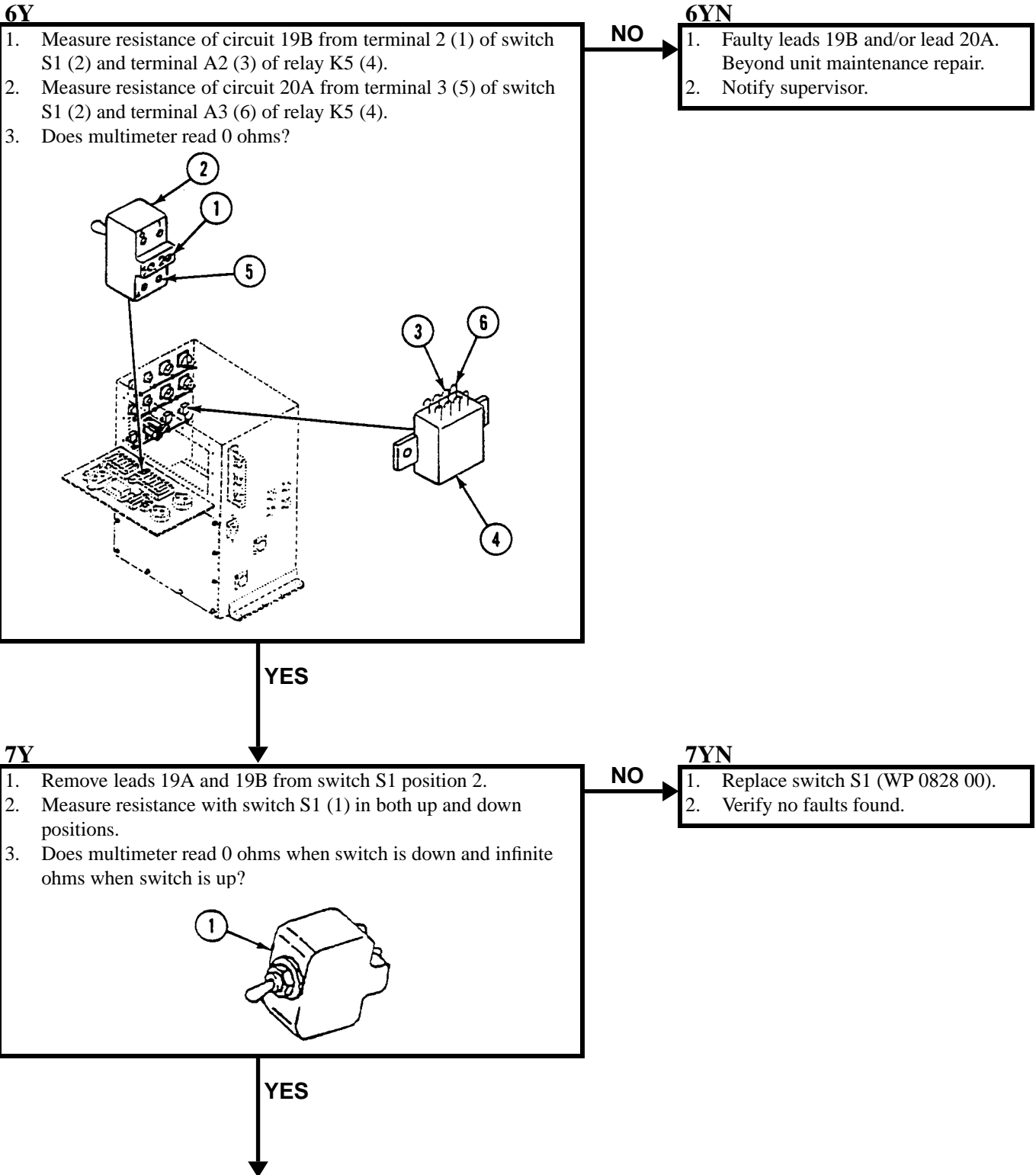


NO

5YN

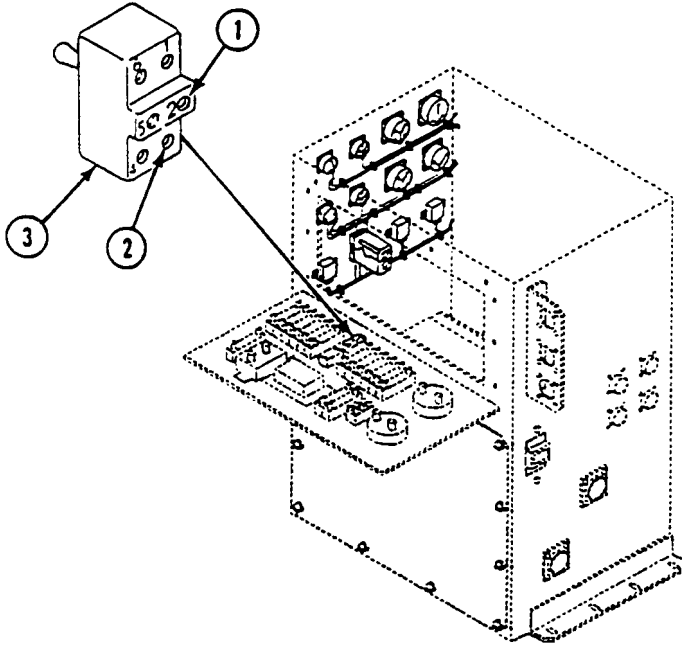
1. Faulty lead 20B. Beyond unit maintenance repair.
2. Notify supervisor.

YES



8Y

1. Reconnect leads 19A and 19B to S1 position 2.
2. Set BLACKOUT ENABLE switch to upward position.
3. Measure resistance between terminal 2 (1) and terminal 3 (2) of BLACKOUT ENABLE switch S1 (3).
4. Does multimeter read infinite ohms?



YES



NO

8YN

1. Faulty relay K5. Beyond unit maintenance repair.
2. Notify supervisor.

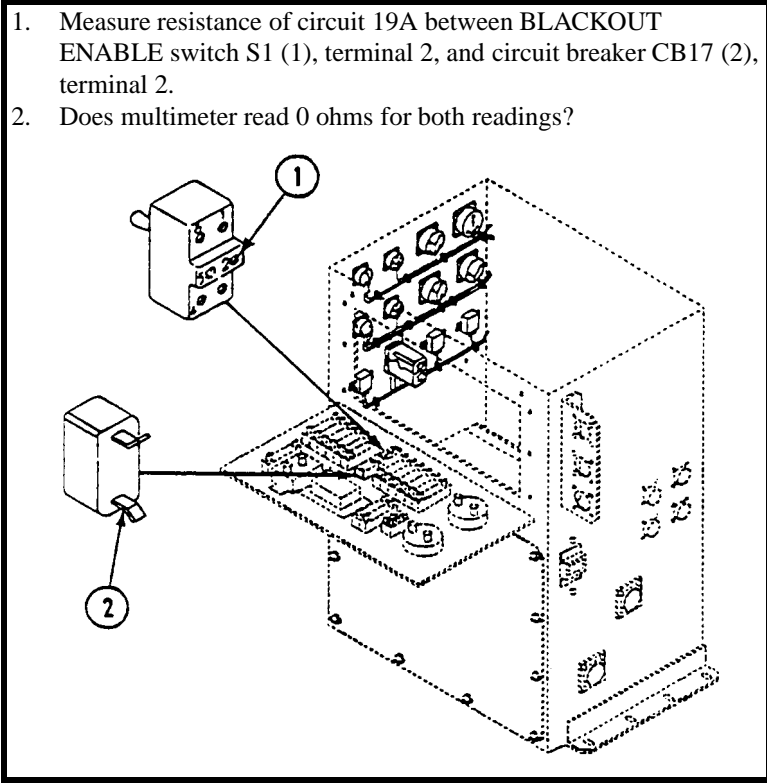
9Y

1. Measure resistance of circuit 19A between BLACKOUT ENABLE switch S1 (1), terminal 2, and circuit breaker CB17 (2), terminal 2.
2. Does multimeter read 0 ohms for both readings?

NO

9YN

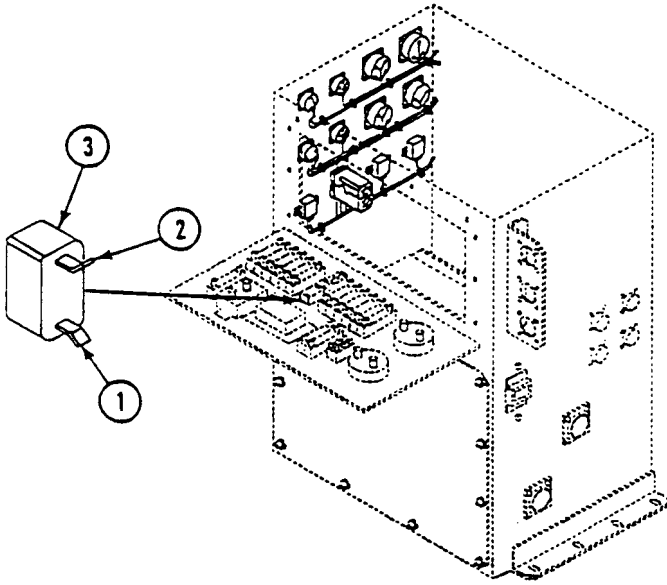
1. Replace lead 19A (WP 0828 00).
2. Verify no faults found.



YES

10Y

1. Set BLACKOUT ENABLE switch to down position.
2. Set AC LIGHTS switch in upward position.
3. Measure resistance between terminal 2 (1) and terminal 1 (2) of circuit breaker CB17 (3).
4. Does multimeter read 0 ohms?



YES



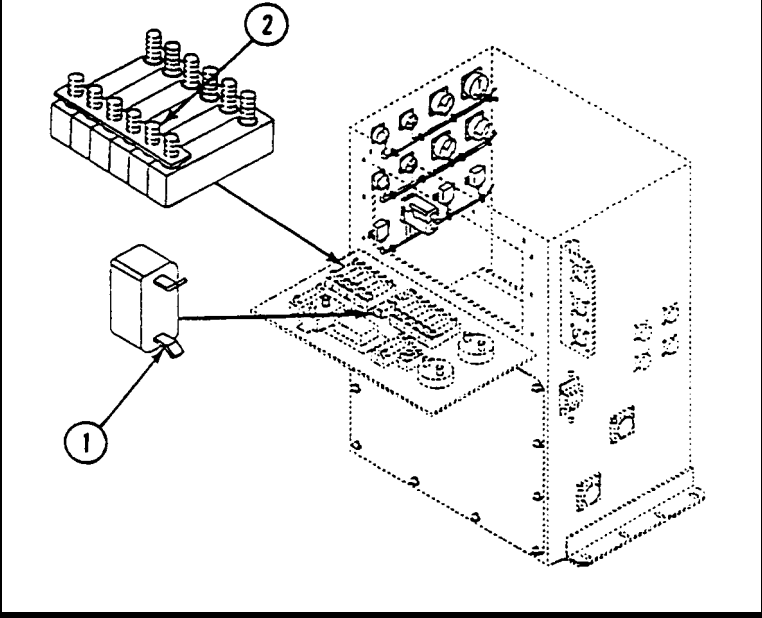
NO

10YN

1. Replace circuit breaker CB17 (WP 0828 00).
2. Verify no faults found.

11Y

1. Set AC LIGHTS switch in upward position.
2. Measure resistance of circuit 17C between circuit breaker CB17, terminal 2 (1), and AC bus bar at CB9 (2) terminal 1.
3. Does multimeter read 0 ohms?



NO

11YN

1. Replace lead 17C (WP 0828 00).
2. Verify no faults found.

YES

12Y

1. Raise faceplate and secure with 10 new lockwashers and screws.
2. Verify no faults found.

NO DC OUTPUT FROM DC POWER SUPPLY (M1068A3 ONLY)

0108 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (22)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

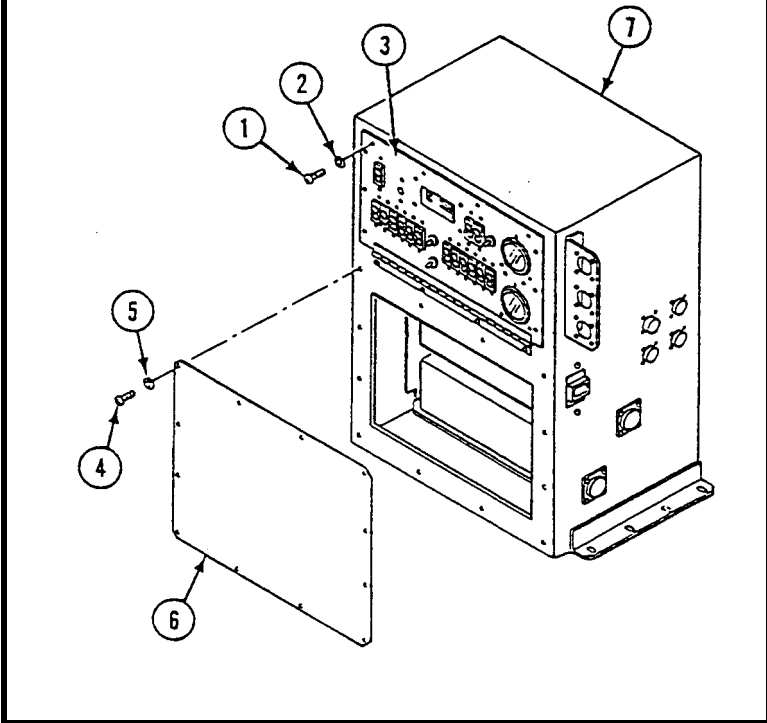
T

1. Remove ten screws (1) and lockwashers (2), and lower faceplate (3). Discard lockwashers.
2. Remove twelve screws (4), lockwashers (5), and cover (6) from Power Control Enclosure (7). Discard lockwashers.
3. Apply an external source of AC power (TM 11-7010-256-12&P).
4. Set AC MAIN circuit breaker on Power Control Enclosure panel to ON.
5. Is external source of AC power accepted by Power Control Enclosure?

NO

TN

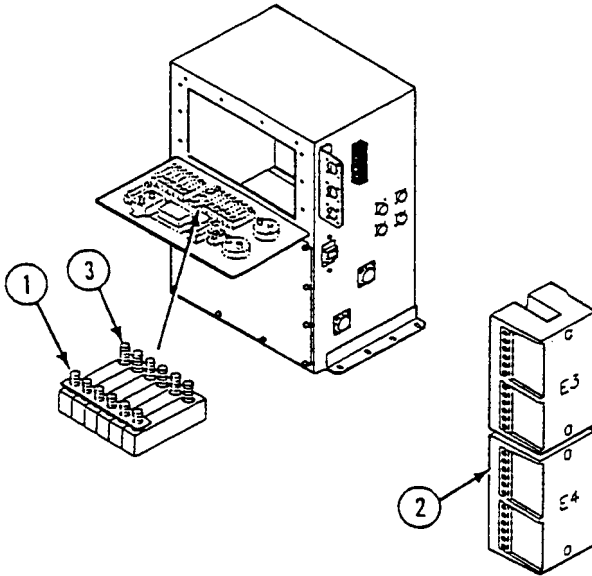
1. Go to: Vehicle Will Not Accept External AC Power (WP 0104 00).



YES

Y

1. Set DC POWER SUPPLY circuit breaker on Power Control Enclosure panel to ON.
2. Measure voltage between CB5 terminal 1 (1) and terminal block E4 (2). Also measure voltage from CB5 terminal 2 (3) to E4 (2).
3. Does multimeter read 110 volts AC or more for both measurements?



YES



NO

YN

1. Replace circuit breaker CB5 (WP 0828 00).
2. Verify no faults found.

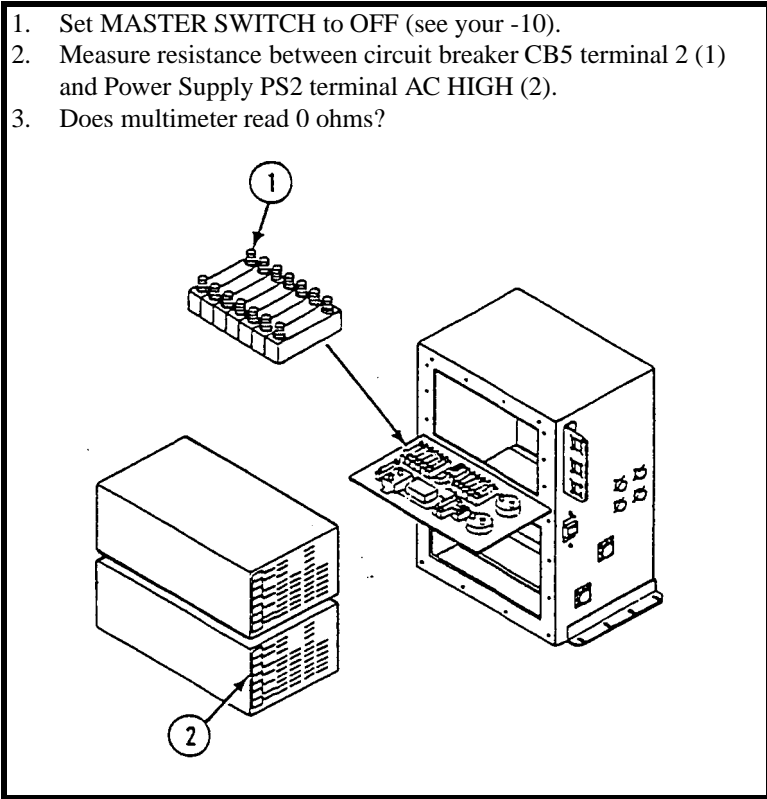
2Y

1. Set MASTER SWITCH to OFF (see your -10).
2. Measure resistance between circuit breaker CB5 terminal 2 (1) and Power Supply PS2 terminal AC HIGH (2).
3. Does multimeter read 0 ohms?

NO

2YN

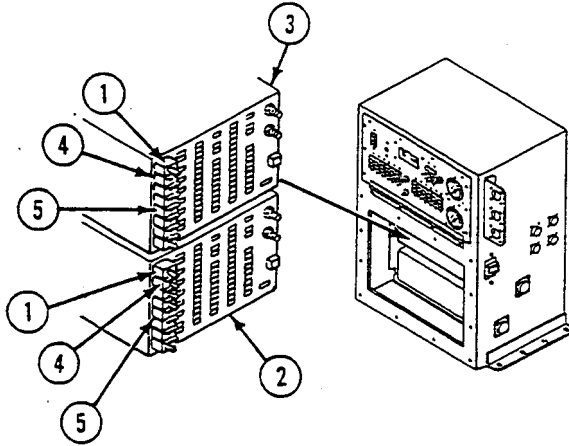
1. Faulty lead 10A in Power Control Enclosure. Beyond unit maintenance repair.
2. Notify supervisor.



YES

3Y

1. Measure resistance between circuit 10B terminals (1) on Power Supply PS2 (2) and Power Supply PS1 (3).
2. Measure resistance between circuit 8C terminals (4) on Power Supply PS2 (2) and Power Supply PS1 (3).
3. Measure resistance between circuit 3Z terminals (5) on Power Supply PS2 (2) and Power Supply PS1 (3).
4. Does multimeter read 0 ohms for each measurement?



NO

3YN

1. Faulty lead 10B, 8C, and 3Z in Power Control Enclosure. Beyond unit maintenance repair.
2. Notify supervisor.

YES

4Y

1. Faulty Power Supply. Beyond unit maintenance repair.
2. Notify supervisor.

NO AC POWER FROM INVERTERS (M1068A3 ONLY)

0109 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
TM 11-7010-256-12&P

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)
Digital Multimeter (WP 0926 00, Item 30)
Inverter Test Solo Plug (WP 0927 00, Figure 0927 00-2)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

Materials/Parts

Lockwasher (10)

Personnel Required

Power-Generation Equipment Repairer 52D10
Helper (H)

All external power disconnected
(TM 11-7010-256-12&P)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel do not observe safety precautions.

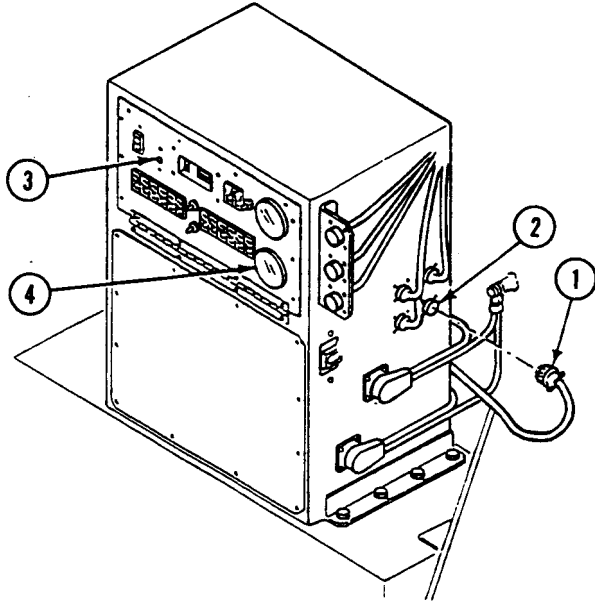
NEVER work on equipment unless at least one other person is nearby, familiar with the operation and hazards of the equipment and is familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

T

1. Remove cable W5 plug P6 (1) from Power Control Enclosure jack J27 (2).
2. Set MASTER SWITCH to ON.
3. If popped out, press DC TO INVERTERS button (3) on Power Control Enclosure panel.
4. Does DC VOLTS meter (4) on Power Control Enclosure panel read 26 volts DC or more?



YES



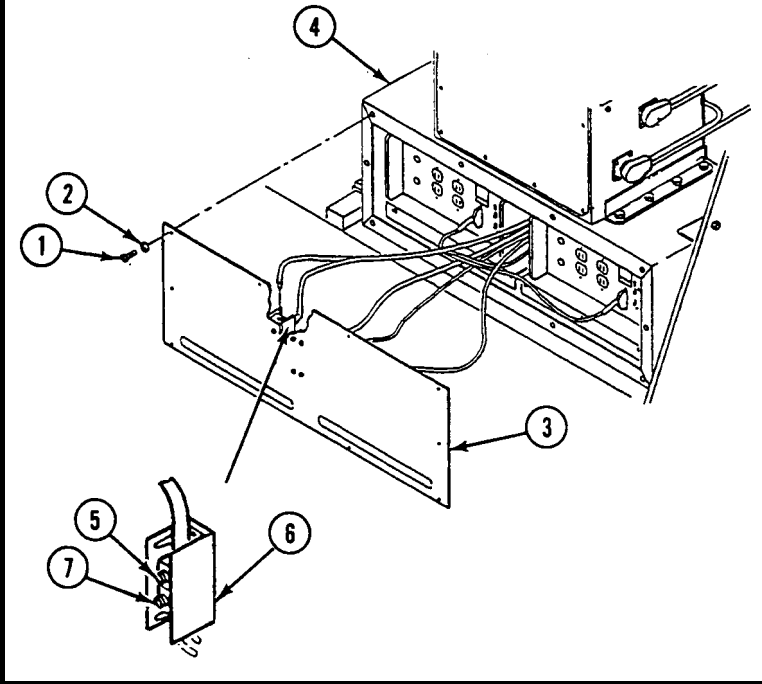
NO

TN

1. Go to: Power Control Enclosure A1 DC Input/Output Inoperative (WP 0090 00).

Y

1. Remove ten screws (1), lockwashers (2), and cover (3) from inverter housing (4). Discard lockwashers.
2. Measure voltage between terminal E2 (5) on terminal block TB1 (6) and ground.
3. Repeat measurement between terminal E4 (7) and ground.
4. Does multimeter read 22 volts DC or more for both measurements?



YES

NO

YN

1. Faulty terminal block TB1. Beyond unit maintenance repair.
2. Notify supervisor

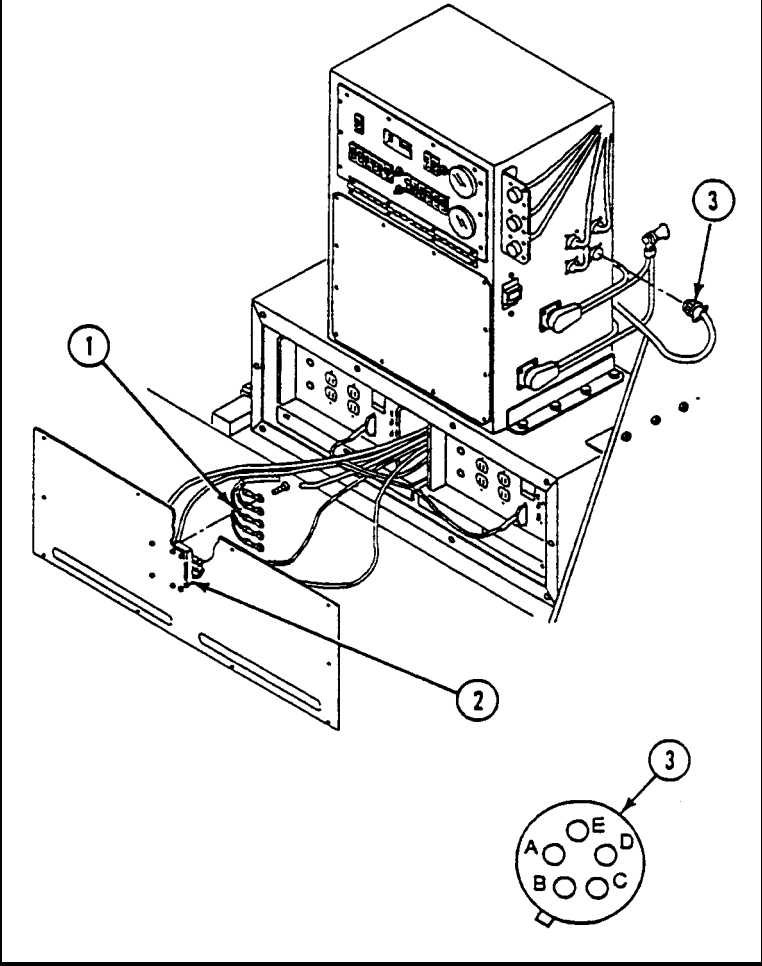
2Y

1. Set MASTER SWITCH to OFF.
2. Tag leads E1 thru E5 before removal. Remove cable W5 leads (1) from posts on terminal block TB2 (2).
3. Measure resistance between sockets of plug P6 (3) and W5 leads (1) as follows:
 - Socket A to lead E1
 - Socket B to lead E2
 - Socket C to lead E3
 - Socket D to lead E4
 - Socket E to lead E5
4. Does multimeter read 0 ohms for each measurement?

NO

2YN

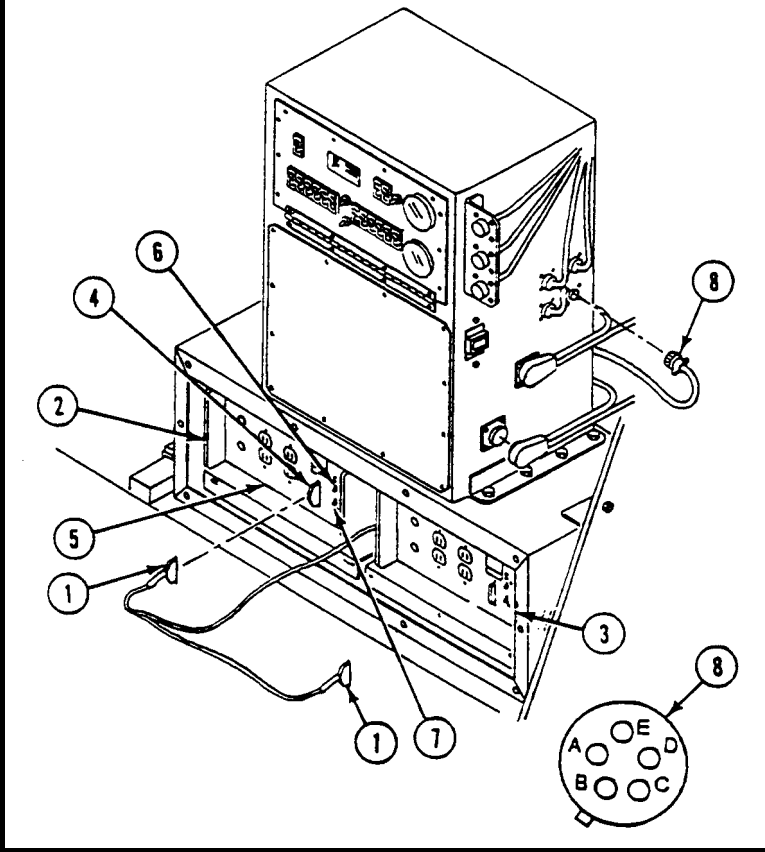
1. Replace cable W5 (WP 0839 00).
2. Verify no faults found.



YES

3Y

1. Install cable W5 leads on terminal block TB2.
2. Remove cable W15 plugs (1) from inverters IN1 (2) and IN2 (3).
3. Install inverter test solo plug (4) in inverter IN1 (2).
4. Set MASTER SWITCH to ON.
5. On inverter front panel (5), set POWER switch (6) to ON and momentarily move RESET switch (7) up.
6. Measure voltage between sockets A and B of cable W5 plug P6 (8).
7. Does multimeter read 110 volts AC or more?



NO

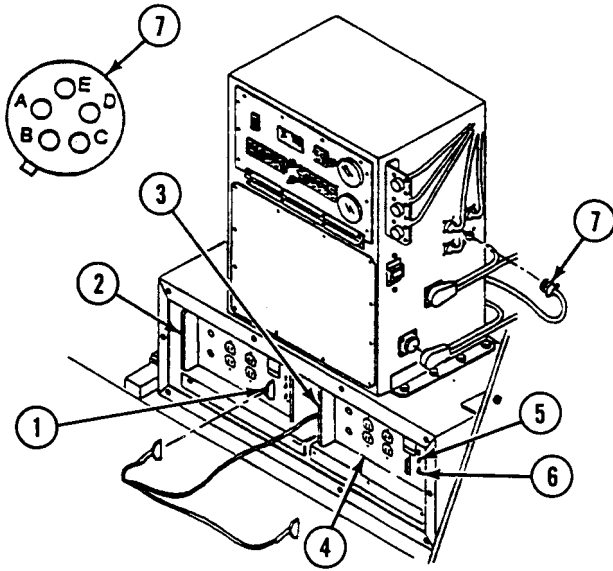
3YN

1. Faulty inverter IN1 (with solo plug installed). Beyond unit maintenance repair.
2. Notify supervisor.

YES

4Y

1. Set MASTER SWITCH to OFF.
2. Remove solo plug (1) from tested inverter IN1 (2) and install in other inverter IN2 (3).
3. Set MASTER SWITCH to ON.
4. On inverter front panel (4), set POWER switch (5) to ON and momentarily move RESET switch (6) up.
5. Measure voltage between sockets C and D of cable W5 plug P6 (7).
6. Does multimeter read 110 volts AC or more?



NO

4YN

1. Faulty inverter IN2 (with solo plug installed). Beyond unit maintenance repair.
2. Notify supervisor.

YES

5Y

1. Install cable W5 plug P6 on Power Control Enclosure jack J27.
2. Replace cascade remote harness W15 (WP 0847 00).
3. Verify no faults found.

INVERTER POWER-UP FAILURE (M1068A3 ONLY)

0109 01

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

References

TM 9-2350-277-10

Equipment Condition

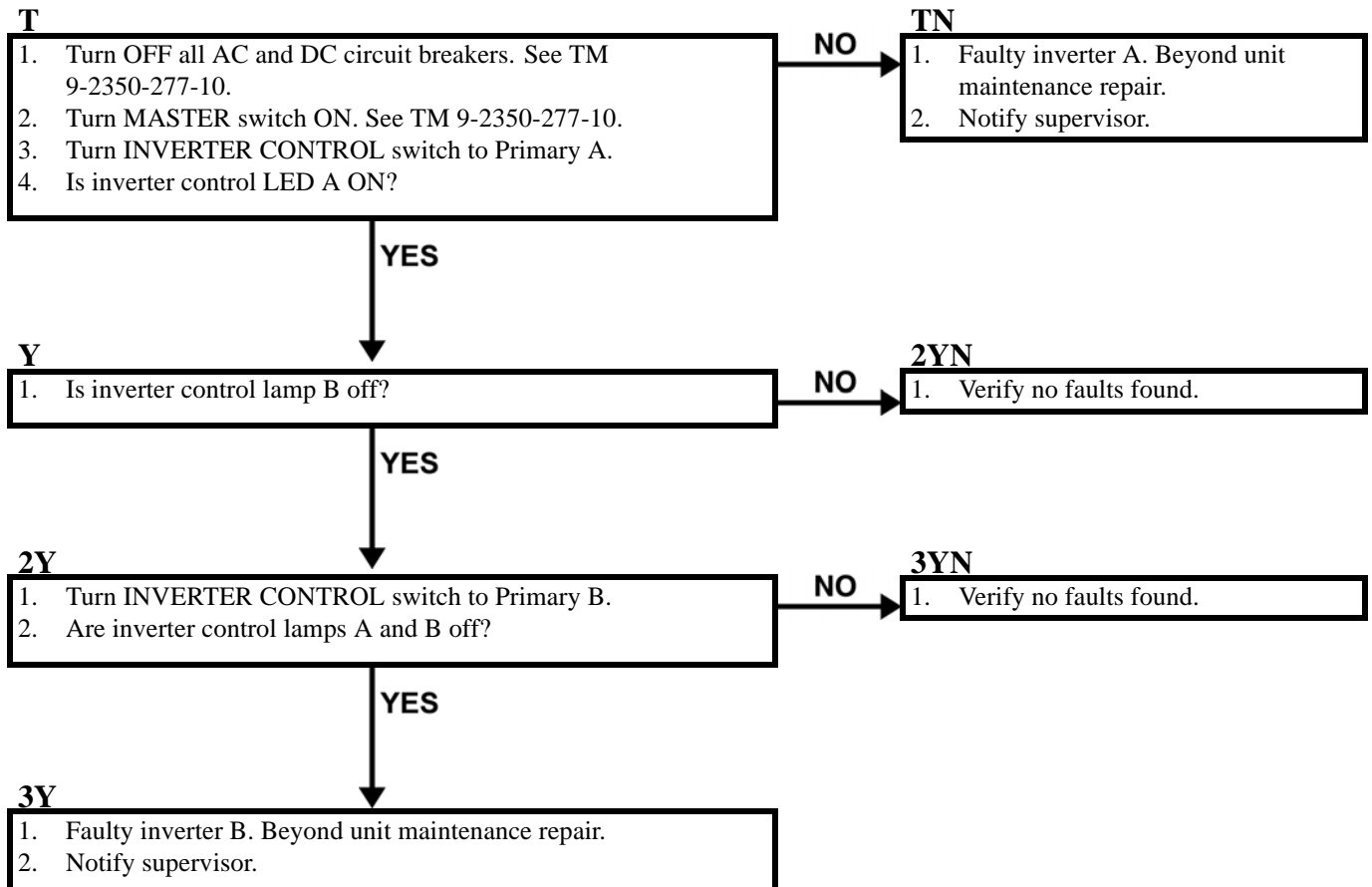
Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Inverter control switch in the OFF position

NOTE

During power-up, the only indication the inverters are on is the sound of their turbo fans.



NO DATA OUTPUT FROM DATA PANEL A12 (M1068A3 ONLY)

0110 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio equipment tool kit (WP 0926 00, Item 66)

Multimeter (WP 0926 00, Item 30)

Personnel Required

Signal Support System Specialist 31U10

Helper (H)

References

See your -10

TM 11-7010-256-12&P

Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

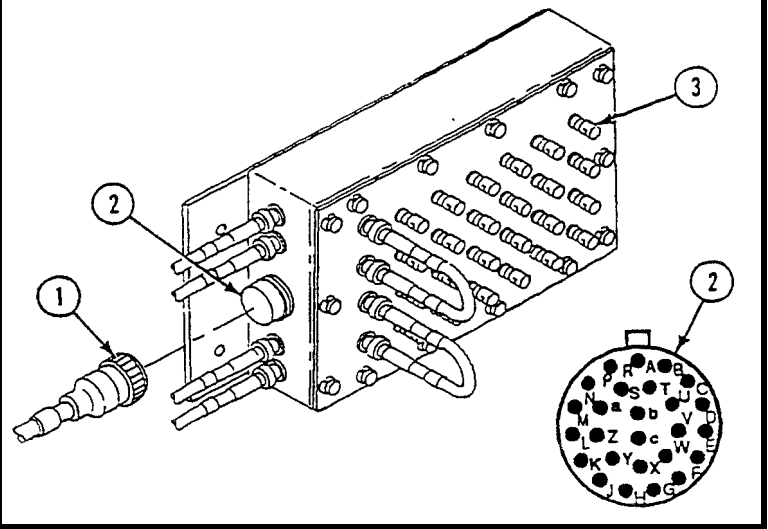
T

1. Remove cable W124 plug P1 (1) from Data Panel A12 jack J3 (2).
2. Measure resistance between posts (3) and pins of jack J3 (2) as follows:
 - Post 1 (Red) to pin A
 - Post 1 (Blk) to pin B
 - Post 2 (Red) to pin C
 - Post 2 (Blk) to pin D
 - Post 3 (Red) to pin E
 - Post 3 (Blk) to pin F
 - Post 4 (Red) to pin G
 - Post 4 (Blk) to pin H
 - Post 5 (Red) to pin J
 - Post 5 (Blk) to pin K
 - Post 6 (Red) to pin L
 - Post 6 (Blk) to pin M
 - Post 7 (Red) to pin N
 - Post 7 (Blk) to pin P
 - Post 8 (Red) to pin R
 - Post 8 (Blk) to pin S
 - Post 9 (Red) to pin T
 - Post 9 (Blk) to pin U
 - Post 10 (Red) to pin V
 - Post 10 (Blk) to pin W
 - Post 11 (Red) to pin X
 - Post 11 (Blk) to pin Y
 - Post 12 (Red) to pin Z
 - Post 12 (Blk) to pin a
3. Does multimeter read 0 ohms for each measurement?

NO

TN

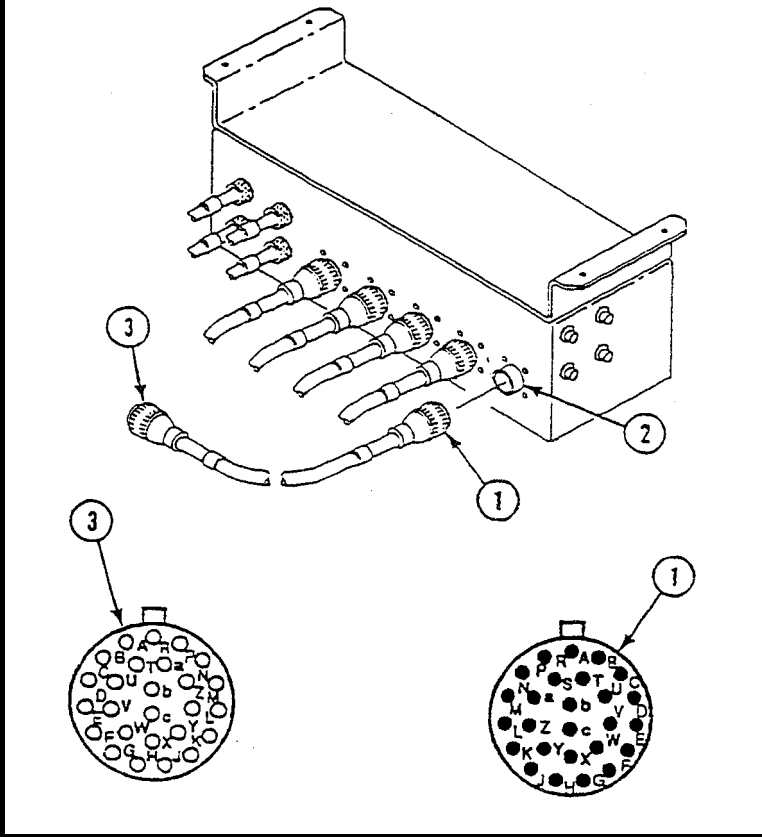
1. Replace Data Panel A12 (WP 0819 00).
2. Verify no faults found.



YES

Y

1. Remove cable W124 plug P109 (1) from Patch Panel Box A10 jack J140 (2).
2. Measure resistance between pin A on plug P109 (1) and socket A on plug P1 (3) of cable W124. Repeat for pins B through a.
3. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace cable W124 (WP 0855 00).
2. Verify no faults found.

YES

2Y

1. Replace Signal Patch Panel Box A10 (WP 0816 00).
2. Verify no faults found.

NO LAN OUTPUT FROM DATA PANEL A12 (M1068A3 ONLY)

0111 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio equipment tool kit (WP 0926 00, Item 66)
Multimeter (WP 0926 00, Item 30)

Personnel Required

Signal Support System Specialist 31U10
Helper (H)

References

See your -10
TM 11-7010-256-12&P
See M1068A3 Wiring Diagram (FO-7 and FO-8)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

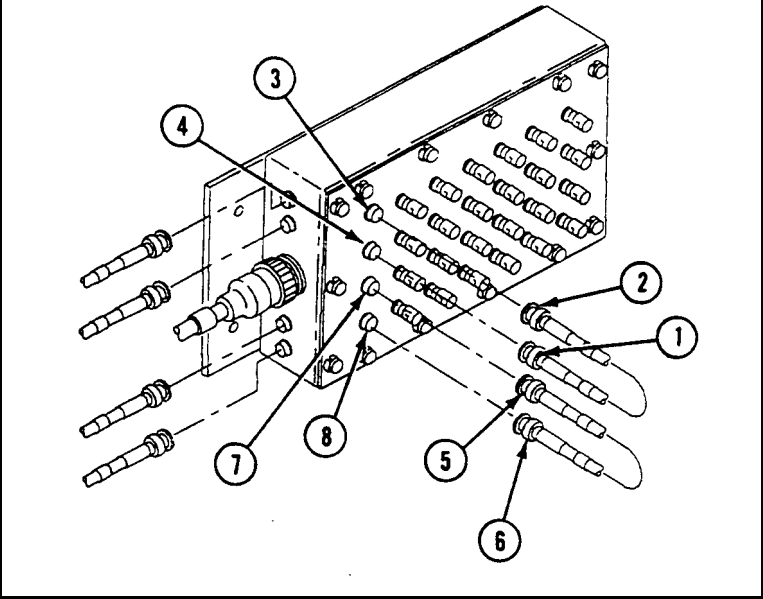
T

1. Remove cable W108 plugs P1 (1) and P2 (2) from Data Panel A12 jacks J107 (3) and J108 (4).
2. Remove cable W107 plugs P1 (5) and P2 (6) from Data Panel A12 jacks J105 (7) and J106 (8).
3. Measure resistance between center pins of plugs P1 and P2 of each cable.
4. Does multimeter read 0 ohms for each measurement?

NO

TN

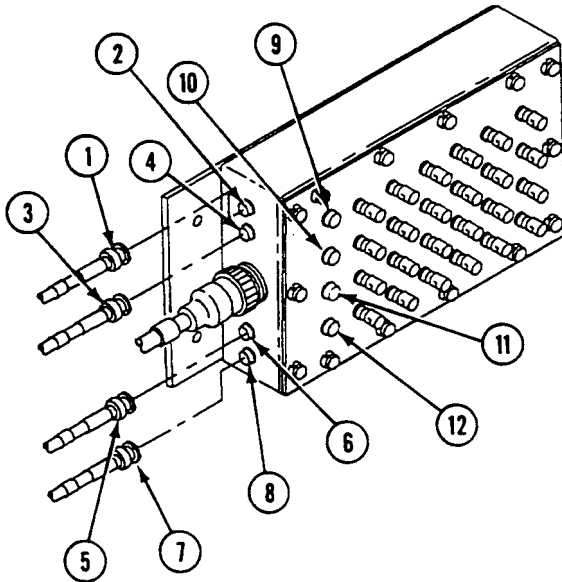
1. Replace cable W107 and/or W108 (WP 0819 00).
2. Verify no faults found.



YES

Y

1. Remove the following cable plugs from jacks on Data Panel A12:
 - W101 plug P1 (1) from jack J1 (2)
 - W103 plug P1 (3) from jack J2 (4)
 - W102 plug P1 (5) from jack J4 (6)
 - W104 plug P1 (7) from jack J5 (8)
2. Measure resistance between pins of the following jacks on Data Panel A12:
 - J1 (2) to J105 (9)
 - J2 (4) to J106 (10)
 - J4 (6) to J107 (11)
 - J5 (8) to J108 (12)
3. Does multimeter read 0 ohms for each measurement?



YES

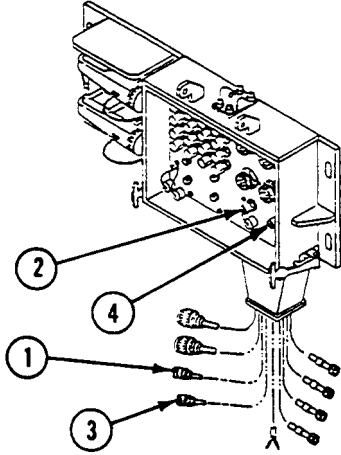
NO

YN

1. Replace Data Panel A12 (WP 0819 00).
2. Verify no faults found.

2Y

1. Measure resistance between cable W101 plug P1 (1) and External Communication Box A11 jack J103 (2).
2. Measure resistance between cable W102 plug P1 (3) and External Communication Box A11 jack J104 (4).
3. Does multimeter read 0 ohms for each measurement?



YES

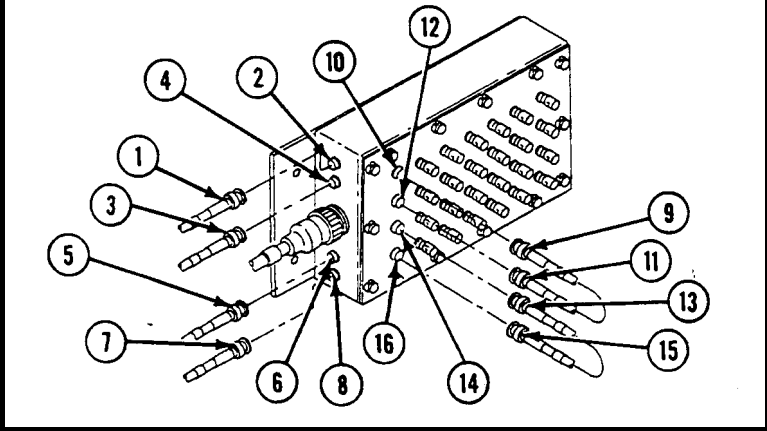
NO

2YN

1. Faulty cables W101 and/or W102. Beyond unit maintenance repair.
2. Notify supervisor.

3Y

1. Install the following plugs and cables on Data Panel A12 jacks:
 - W101 plug P1 (1) on jack J1 (2)
 - W103 plug P1 (3) on jack J2 (4)
 - W102 plug P1 (5) on jack J4 (6)
 - W104 plug P1 (7) on jack J5 (8)
 - W107 plug P1 (9) on jack J105 (10)
 - W107 plug P2 (11) on jack J106 (12)
 - W108 plug P1 (13) on jack J107 (14)
 - W108 plug P2 (15) on jack J108 (16)
2. Verify no faults found.



NO DATA OUTPUT FROM DATA PANEL A13 (M1068A3 ONLY)

0112 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio equipment tool kit (WP 0926 00, Item 66)

Multimeter (WP 0926 00, Item 30)

Personnel Required

Signal Support System Specialist 31U10

Helper (H)

References

See your -10

TM 11-7010-256-12&P

See M1068A3 Wiring Diagram (FO-7 and FO-8)

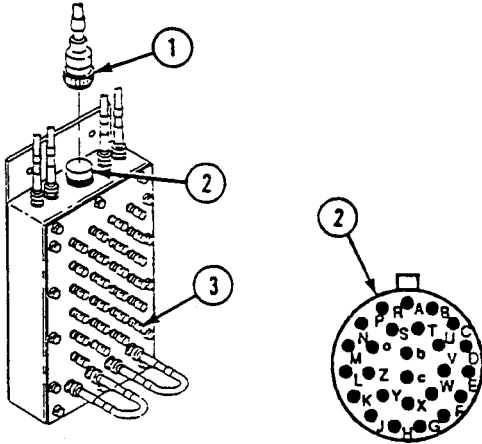
Equipment Condition

Engine stopped (see your -10)

Carrier blocked (see your -10)

T

1. Remove cable W126 plug P1 (1) from Data Panel A13 jack J3 (2).
2. Measure resistance between posts (3) and pins of jack J3 (2) as follows:
 - Post 1 (Red) to pin A
 - Post 1 (Blk) to pin B
 - Post 2 (Red) to pin C
 - Post 2 (Blk) to pin D
 - Post 3 (Red) to pin E
 - Post 3 (Blk) to pin F
 - Post 4 (Red) to pin G
 - Post 4 (Blk) to pin H
 - Post 5 (Red) to pin J
 - Post 5 (Blk) to pin K
 - Post 6 (Red) to pin L
 - Post 6 (Blk) to pin M
 - Post 7 (Red) to pin N
 - Post 7 (Blk) to pin P
 - Post 8 (Red) to pin R
 - Post 8 (Blk) to pin S
 - Post 9 (Red) to pin T
 - Post 9 (Blk) to pin U
 - Post 10 (Red) to pin V
 - Post 10 (Blk) to pin W
 - Post 11 (Red) to pin X
 - Post 11 (Blk) to pin Y
 - Post 12 (Red) to pin Z
 - Post 12 (Blk) to pin a
3. Does multimeter read 0 ohms for each measurement?



NO

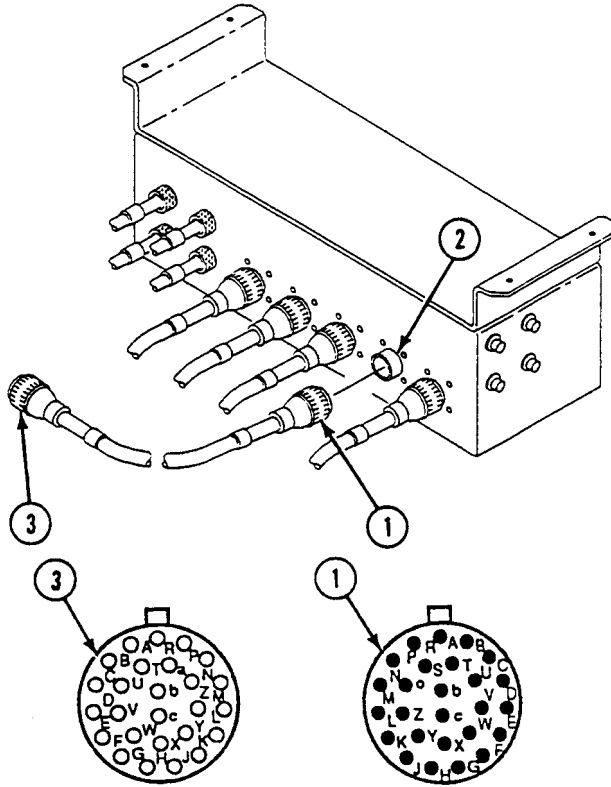
TN

1. Replace Data Panel A13 (WP 0835 00).
2. Verify no faults found.

YES

Y

1. Remove cable W126 plug P108 (1) from Patch Panel Box A10 jack J139 (2).
2. Measure resistance between pin A on plug P108 (1) and socket A on plug P1 (3) of cable W126. Repeat for pins B through a.
3. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace cable W126 (WP 0856 00).
2. Verify no faults found.

YES

2Y

1. Replace Signal Patch Panel Box A10 (WP 0816 00).
2. Verify no faults found.

NO LAN OUTPUT FROM DATA PANEL A13 (M1068A3 ONLY)

0113 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Radio equipment tool kit (WP 0926 00, Item 66)
Multimeter (WP 0926 00, Item 30)

Personnel Required

Signal Support System Specialist 31U10
Helper (H)

References

See your -10
TM 11-7010-256-12&P
See M1068A3 Wiring Diagram(FO-7 and FO-8)

Equipment Condition

Engine stopped (see your -10)
Carrier blocked (see your -10)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

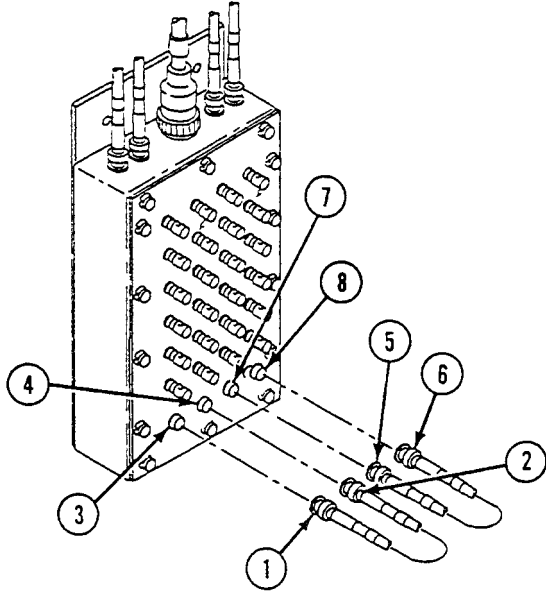
NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

T

1. Remove cable W109 plugs P1 (1) and P2 (2) from Data Panel A13 jacks J109 (3) and J110 (4).
2. Remove cable W110 plugs P1 (5) and P2 (6) from Data Panel A13 jacks J111 (7) and J112 (8).
3. Measure resistance between center pins of plugs P1 and P2 of each cable.
4. Does multimeter read 0 ohms for each measurement?



YES

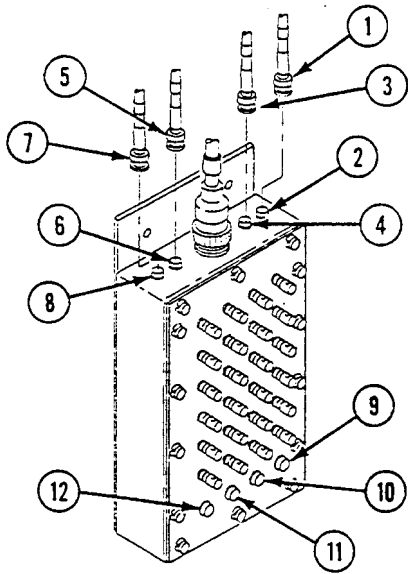
NO

TN

1. Replace cable W109 and/or W110 (WP 0835 00).
2. Verify no faults found.

Y

1. Remove the following cable plugs from jacks on Data Panel A13:
 - W32 plug P5 (1) from jack J1 (2)
 - W104 plug P2 (3) from jack J2 (4)
 - W32 plug P4 (5) from jack J4 (6)
 - W103 plug P2 (7) from jack J5 (8)
2. Measure resistance between pins of the following jacks on Data Panel A13:
 - J1 (2) to J112 (9)
 - J2 (4) to J111 (10)
 - J4 (6) to J110 (11)
 - J5 (8) to J109 (12)
3. Does multimeter read 0 ohms for each measurement?



YES

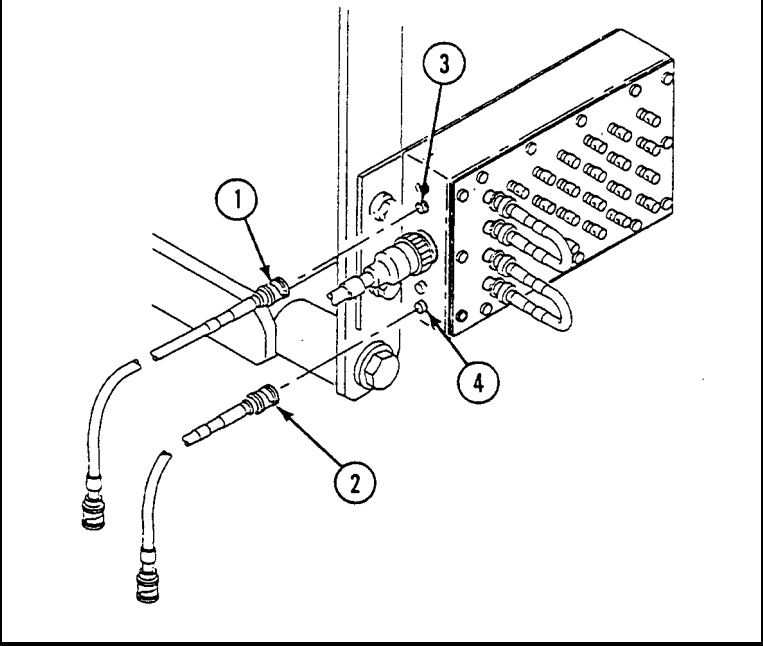
NO

YN

1. Replace Data Panel A13 (WP 0835 00).
2. Verify no faults found.

2Y

1. Remove cables W103 plug P1 (1) and W104 plug P2 (2) from jacks J2 (3) and J5 (4) on Data Panel A12.
2. Measure resistance between center pins of plugs P1 and P2 of cables W103 and W104.
3. Does multimeter read 0 ohms for each measurement?



NO

2YN

1. Replace cable W103 and/or W104 (WP 0854 00).
2. Verify no faults found.

YES

3Y

1. Go to: No LAN Output from Data Panel A12 (WP 0111 00).

PHONE EXTENSION BOX A14 POST(S) INOPERATIVE (M1068A3 ONLY)

0114 00

INITIAL SETUP:

Maintenance Level

Unit

References

See your -10
 TM 11-7010-256-12&P
 See M1068A3 Wiring Diagram (FO-7 and FO-8)

Tools and Special Tools

Radio Equipment Tool Kit (WP 0926 00, Item 66)
 Digital Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (see your -10)
 Carrier blocked (see your -10)

Personnel Required

Signal Support System Specialist 31U10
 Helper (H)

WARNING



HIGH VOLTAGE is used in the operation of this equipment.

DEATH ON CONTACT may result if personnel fail to observe safety precautions.

NEVER work on equipment unless at least one other person familiar with the operation and hazards of the equipment is nearby. That person should also be familiar with giving first aid. When an operator helps a mechanic, that operator must be warned about dangerous areas.

SHUT OFF POWER supply to equipment before beginning work. Make sure all external power is off/disconnected.

BE CAREFUL not to contact high-voltage connections when installing or operating this equipment.

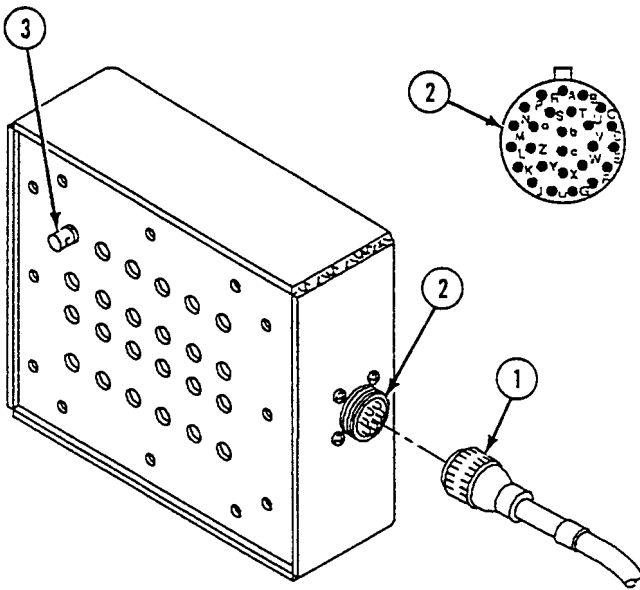
T

1. Remove cable W129 plug P2 (1) from Phone Extension Box A14 jack J1 (2).
2. Measure resistance between posts (3) and pins of jack J1 (2) as follows:
 - Post 1 (Blk) to pin A
 - Post 1 (Red) to pin B
 - Post 2 (Blk) to pin C
 - Post 2 (Red) to pin D
 - Post 3 (Blk) to pin E
 - Post 3 (Red) to pin F
 - Post 4 (Blk) to pin G
 - Post 4 (Red) to pin H
 - Post 5 (Blk) to pin J
 - Post 5 (Red) to pin K
 - Post 6 (Blk) to pin L
 - Post 6 (Red) to pin M
 - Post 7 (Blk) to pin N
 - Post 7 (Red) to pin P
 - Post 8 (Blk) to pin R
 - Post 8 (Red) to pin S
 - Post 9 (Blk) to pin T
 - Post 9 (Red) to pin U
 - Post 10 (Blk) to pin V
 - Post 10 (Red) to pin W
 - Post 11 (Blk) to pin X
 - Post 11 (Red) to pin Y
 - Post 12 (Blk) to pin Z
 - Post 12 (Red) to pin a
3. Does multimeter read 0 ohms for each measurement?

NO

TN

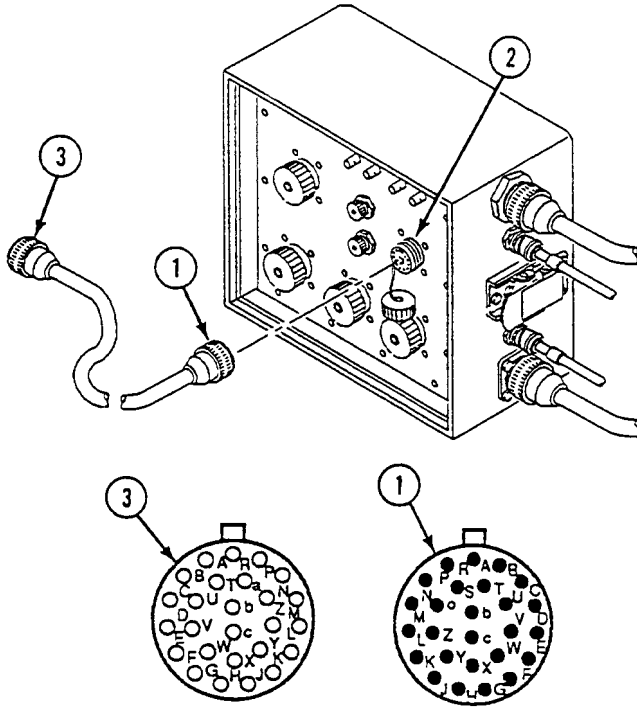
1. Replace Phone Extension Box A14. See TM 11-7010-256-12&P.
2. Verify no faults found.



YES

Y

1. Remove cable W129 plug P1 (1) from Tent Interface Panel jack J137 (2).
2. Measure resistance between pin A on plug P1 (1) and socket A on plug P2 (3) of cable W129. Repeat for pins B through a
3. Does multimeter read 0 ohms for each measurement?



NO

YN

1. Replace cable W129.
2. Verify no faults found.

YES

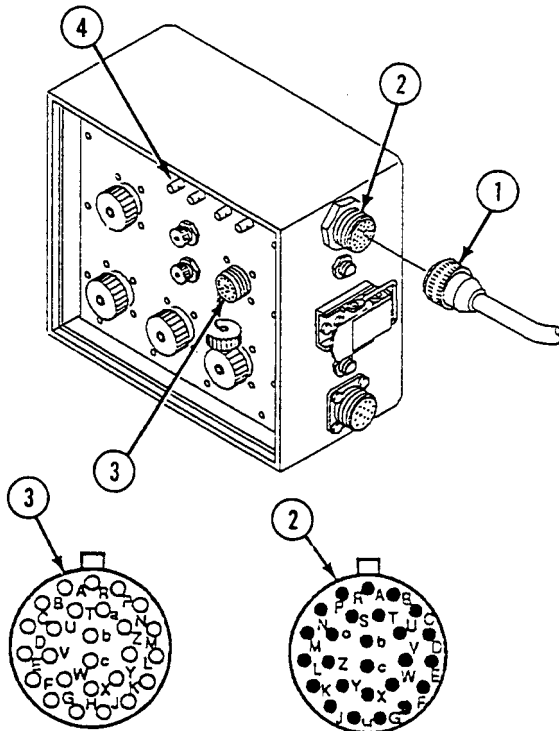
2Y

1. Remove cable W32 plug P7 (1) from Tent Interface Panel jack J8 (2).
2. Measure resistance between socket A of jack J137 (3) and pin A of jack J8 (2). Repeat for sockets/pins B through a.
3. Measure resistance between sockets of J137 (3) and posts (4) as follows:
 - Socket A to E117
 - Socket B to E118
 - Socket C to E119
 - Socket D to E120
4. Does multimeter read 0 ohms for each measurement?

NO

2YN

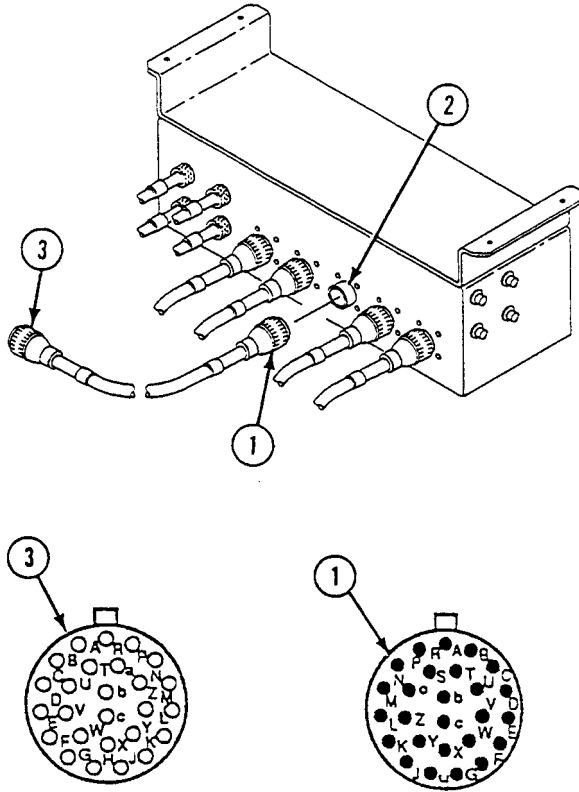
1. Replace Tent Interface Panel Box A5 (WP 0833 00).
2. Verify no faults found.



YES

3Y

1. Remove cable W32 plug P107 (1) from jack J138 (2) on Patch Panel Box A10.
2. Measure resistance between socket A of plug P7 (3) and pin A of plug P107 (1). Repeat for socket/pins B through a.
3. Does multimeter read 0 ohms for each measurement?



NO

3YN

1. Replace cable W32 (WP 0848 00).
2. Verify no faults found.

YES

4Y

1. Replace Signal Patch Panel Box A10 (WP 0816 00).
2. Verify no faults found.

SPEEDOMETER MALFUNCTIONS

0115 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Personnel Required

Mechanic

Helper (H)

Equipment Condition

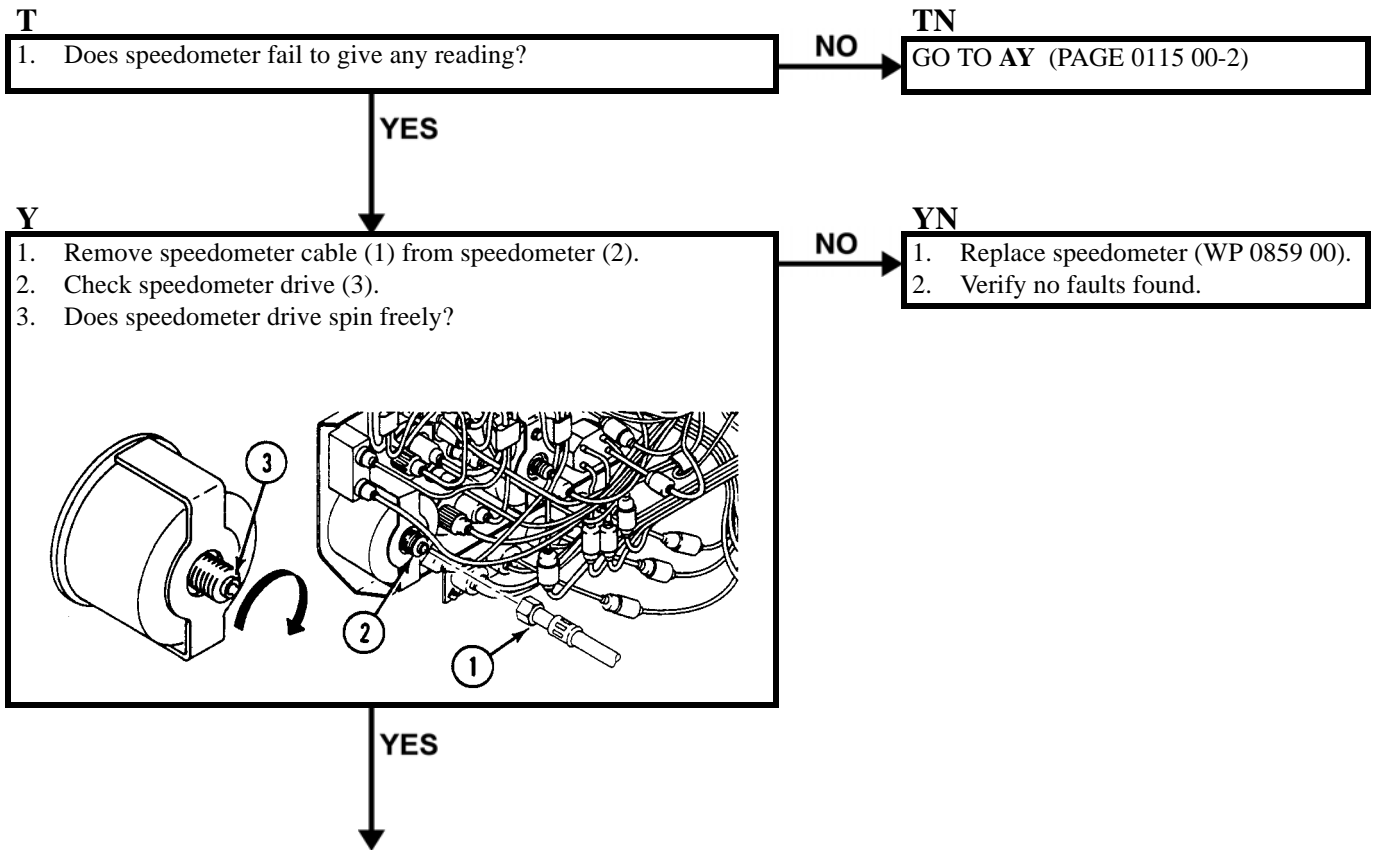
Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

Power plant rear access panels removed (WP 0441 00)

Driver's power plant access panel removed (WP 0441 00)



2Y

1. Remove speedometer cable (1) and packing (2) from final drive adapter (3).
2. Check speedometer cable ends (4).
3. Does cable spin freely?

NO

2YN

1. Repair/replace speedometer cable (WP 0861 00 or WP 0860 00).
2. Verify no faults found.

YES

3Y

1. Remove speedometer drive adapter from final drive (WP 0860 00).
2. Inspect final drive adapter.
3. Is final drive adapter seized or damaged?

NO

3YN

1. Replace speedometer (WP 0859 00).
2. Verify no faults found.

YES

4Y

1. Install speedometer cable on speedometer.
2. Replace final drive adapter (WP 0860 00).
3. Verify no faults found.

AY

1. Has speedometer cable flexible core been serviced?

NO

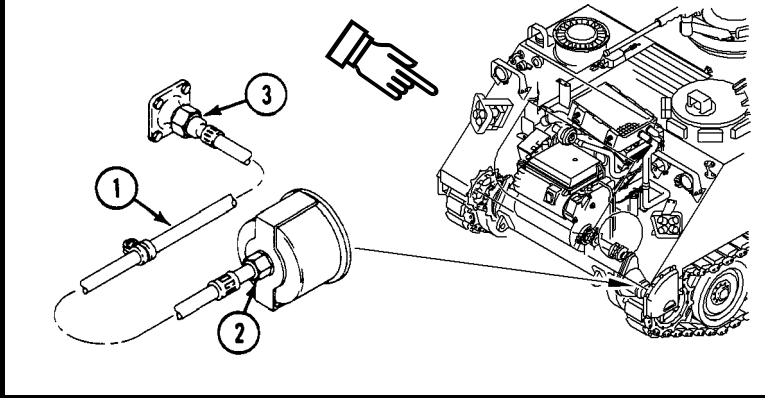
AYN

1. Service speedometer cable flexible core (WP 0858 00).
2. Verify no faults found.

YES

A2Y

1. Inspect speedometer cable assembly (1) for damage between speedometer (2) and final drive (3).
2. Is cable assembly free of damage?



NO

A2YN

1. Replace speedometer cable assembly (WP 0860 00).
2. Verify no faults found.

YES

A3Y

1. Replace speedometer (WP 0859 00).
2. Verify no faults found.

TACHOMETER MALFUNCTIONS

0116 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Personnel Required

Mechanic

Helper (H)

References

TM 9-2350-277-10

Equipment Condition

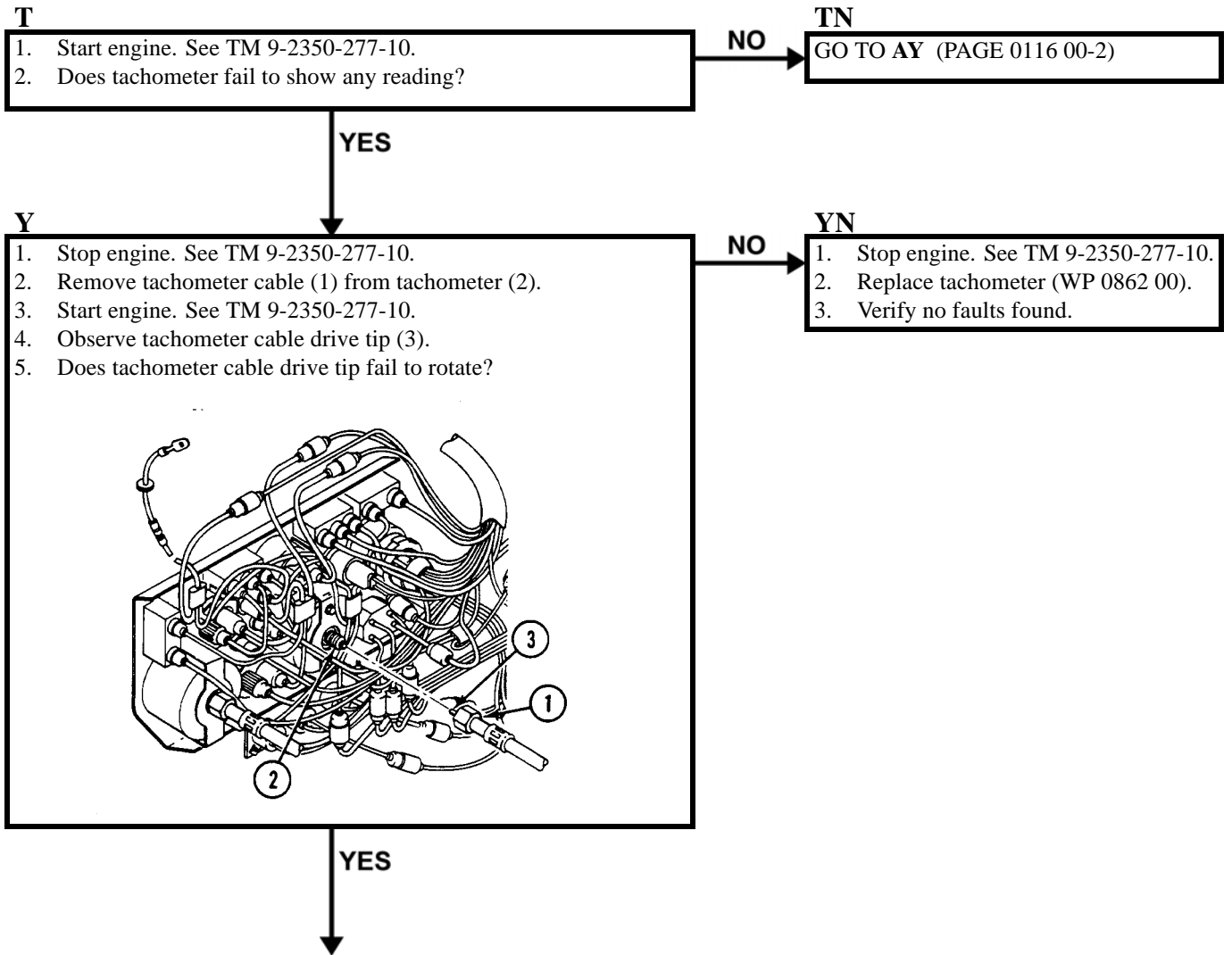
Engine stopped (TM 9-2350-277-10)

Carrier blocked (TM 9-2350-277-10)

Power plant access door open (TM 9-2350-277-10)

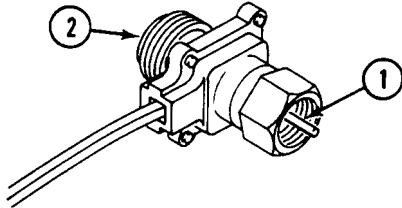
Power plant rear access panels removed (WP 0441 00)

Driver's power plant access panel removed (WP 0441 00)



2Y

1. Stop engine. See TM 9-2350-277-10.
2. Remove pulse tachometer (WP 0867 00).
3. Manually rotate pulse transducer input (1)
4. Observe pulse transducer output (2).
5. Does output rotate without binding?



NO

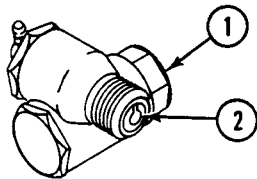
2YN

1. Install tachometer cable on tachometer.
2. Replace pulse tachometer (WP 0867 00).
3. Verify no faults found.

YES

3Y

1. Remove tachometer adapter (WP 0863 00).
2. Manually rotate tachometer adapter input (1)
3. Observe tachometer adapter output (2).
4. Does output rotate without binding?



NO

3YN

1. Replace tachometer adapter (WP 0863 00).
2. Install tachometer cable onto tachometer.
3. Verify no faults found.

YES

4Y

1. Install tachometer adapter and pulse tachometer (WP 0863 00 and WP 0867 00).
2. Replace tachometer cable assembly (WP 0864 00).
3. Verify no faults found.

AY

1. Does tachometer fail to give steady reading?

NO

AYN

1. Replace tachometer (WP 0862 00).
2. Verify no faults found.

YES

A2Y

1. Has tachometer cable flexible core been serviced?

NO

A2YN

1. Service flexible core (WP 0858 00).
2. Verify no faults found.

YES

A3Y

1. Repair/replace tachometer cable assembly (WP 0865 00 or WP 0864 00).
2. Verify no faults found.

DRIVER’S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK

0116 01

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

- General Mechanic’s Tool Kit (WP 0926 00, Item 65)
- Multimeter (WP 0926 00, Item 30)

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- DVE power switch off (TM 9-2350-277-10)

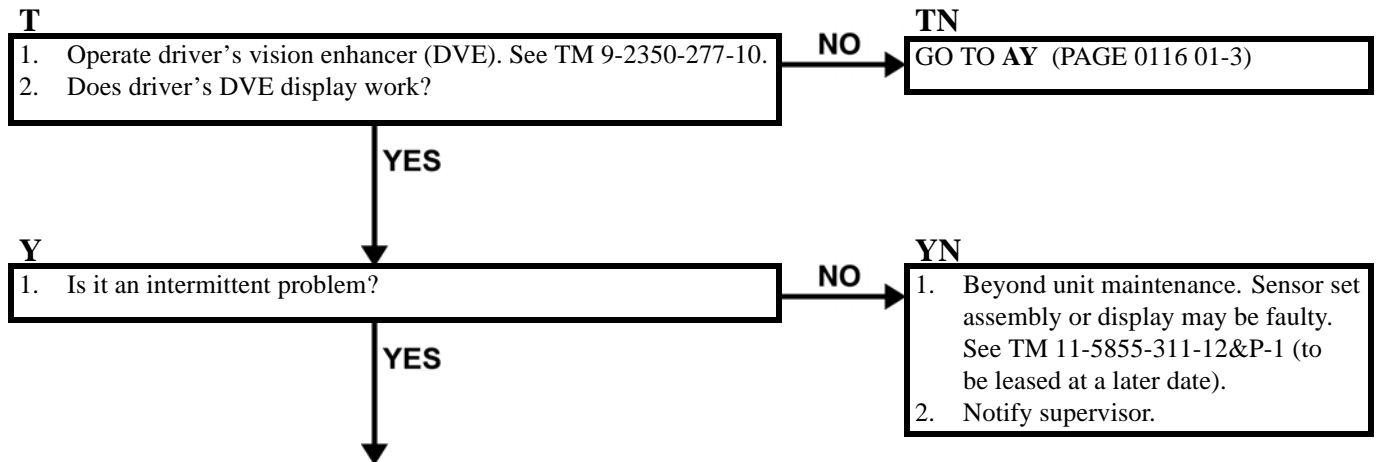
Personnel Required

Mechanic

NOTE

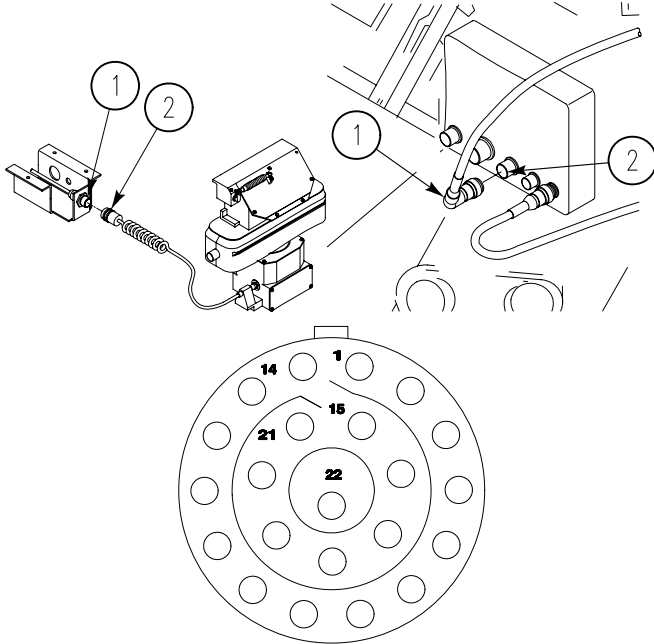
These procedures cover the DVE with a commander’s DVE installed. Cable 12461152 includes power and video cable to commander’s display and power to the driver’s display through cable 12460610. See TM 11-5855-311-12&P-1 (to be released at a later date) for the sensor set assembly or display. If vehicle does not have commander’s DVE display installed, power cable 12460610 is plugged directly into DVE power switch.

If problems in operation are because of the sensor set assembly or driver’s/commander’s display, see TM 11-5855-311-12&P-1 (to be released at a later date).



2Y

1. Remove sensor video cable 12461148 connector W2P1 (2) from connector W1P2 (1) on driver's hatch and connector W2P2 (1) from connector A1J2 (2) on driver's display.
2. Measure continuity between cable 12461148 connector W2P1 (2) and connector W2P2 (1). Check pins 1, 2, 3, 4, 5, 8, 9, 10, 11, 18, and 19.
3. Does multimeter read 0 ohms?



NO

2YN

1. Faulty sensor video cable 12461148. Replace sensor video cable 12461148 (WP 0866 01).
2. Verify no faults found.

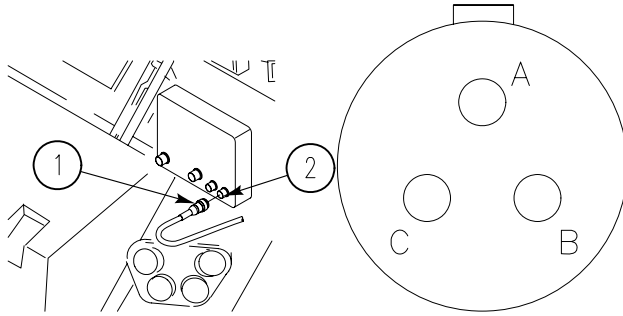
YES

3Y

1. Bad driver's display. Replace driver's display. See TM 9-2350-277-10.
2. Verify no faults found.

AY

1. Remove power cable connector 516B P2 (1) from connector A1J1 (2) on driver's display. Use a multimeter on connector 516B P2 pin A (1) and pin B to check for voltage.



2. Turn DVE power switch ON. See TM 9-2350-277-10.
3. Is voltage reading less than 16 volts?

NO

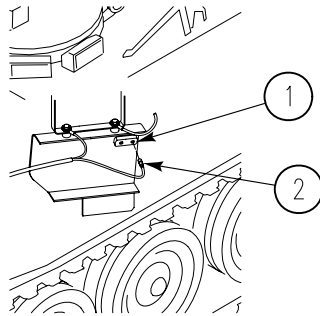
AYN

1. Faulty display. Replace display. See TM 9-2350-277-10. If commander's display is good, swap with driver's display to verify (M58 only).
2. Verify no faults found.

YES

A2Y

1. Turn DVE power switch OFF. See TM 9-2350-277-10.
2. Remove power cable connector 516B P1 or connector W3P4 (2) from DVE power switch (1). Use a multimeter on DVE power switch to check for continuity. Turn DVE power switch ON and OFF.



3. Does multimeter read 0 ohms when DVE power switch is ON?

NO

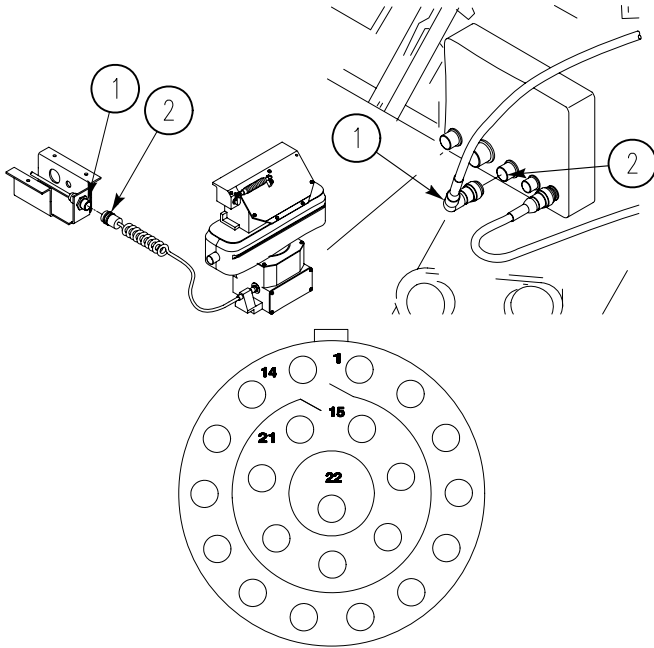
A2YN

1. Faulty DVE power switch. Replace DVE power switch (WP 0282 00).
2. Verify no faults found.

YES

A3Y

1. Remove sensor video cable 12461148 connector W2P1 (2) from connector W1P2 (1) on driver's hatch and connector W2P2 (1) from connector A1J2 (2) on driver's display. Use multimeter to measure continuity. Check pins 1, 2, 3, 4, 5, 8, 9, 10, 11, 18, and 19.
2. Does multimeter read 0 ohms?



NO

A3YN

1. Faulty sensor video cable 12461148. Replace sensor video cable 12461148 (WP 0866 01).
2. Verify no faults found.

YES

A4Y

1. Faulty sensor set assembly or DVE display.
2. Notify supervisor.

COMMANDER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK (M58 ONLY)

0116 02

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10

Tools and Special Tools

General Mechanic's Tool Kit (WP 0926 00, Item 65)

Multimeter (WP 0926 00, Item 30)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

DVE power switch off (TM 9-2350-277-10)

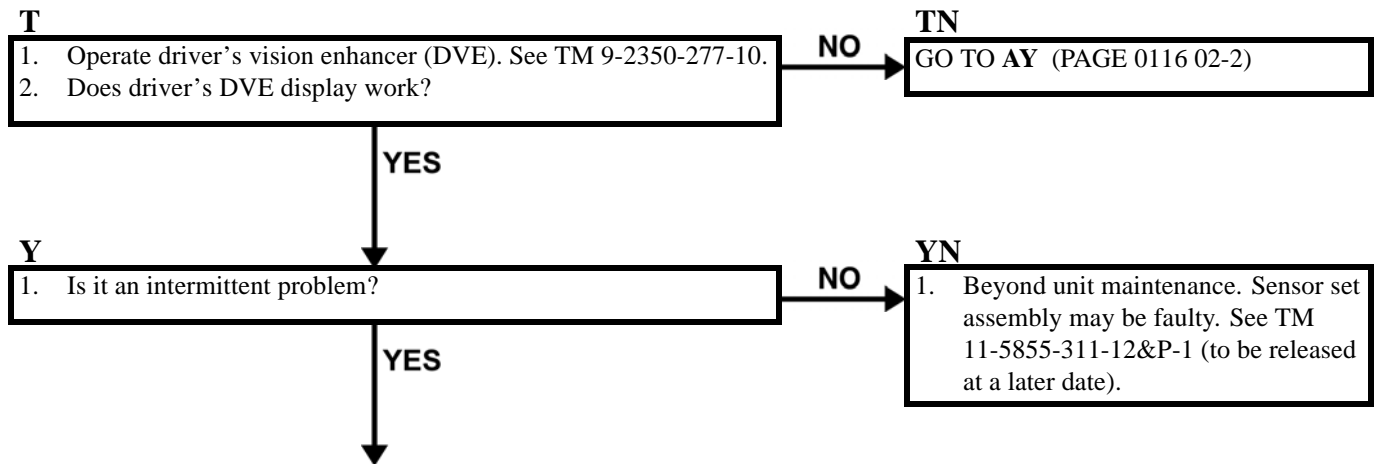
Personnel Required

Mechanic

NOTE

These procedures cover the DVE with a commander's DVE. Cable 12461152 includes the power and video cable to commander's display. See TM 11-5855-311-12&P-1 (to be released at a later date) for sensor set assembly or display.

If problems in operation are because of the sensor set assembly or driver's/commander's display, see TM 11-5855-311-12&P-1 (to be released at a later date).

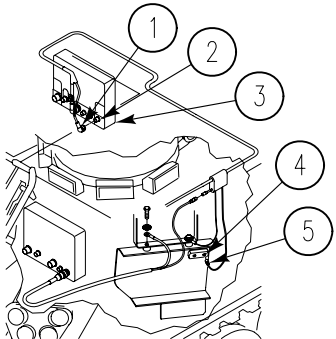


**COMMANDER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK
(M58 ONLY) — Continued**

0116 02

2Y

1. Measure continuity between cable 12461152 connector W3P3 pin A (1) and connector W3P4 (4) and between connector W3P3 pin B (1) and ground point (5) on instrument panel.



2. Does multimeter read 0 ohms?

NO

2YN

1. Faulty cable 12461152. Replace cable 12461152 (WP 0866 04).
2. Verify no faults found.

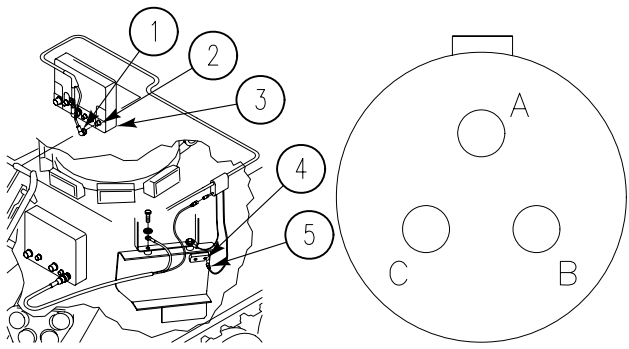
YES

3Y

1. Bad commander's display. Replace commander's display. See TM 9-2350-277-10.
2. Verify no faults found.

AY

1. Remove power cable connector W3P3 (1) from connector A1J1 (2) on commander's display (3). Use a multimeter on connector W3P3 pin A and pin B (1) to check for voltage.



2. Is voltage reading less than 18 volts?

NO

AYN

1. Faulty display. Replace display. See TM 9-2350-277-10.
2. Verify no faults found.

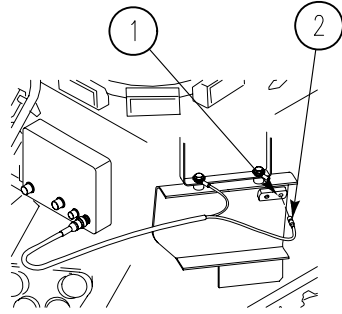
YES

**COMMANDER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK
(M58 ONLY) — Continued**

0116 02

A2Y

1. Remove cable connector W3P4 (2) from DVE power switch (1). Use a multimeter on DVE power switch to check for continuity. Turn DVE power switch ON and OFF.



2. Does multimeter read 0 ohms when DVE power switch is in ON position?

NO

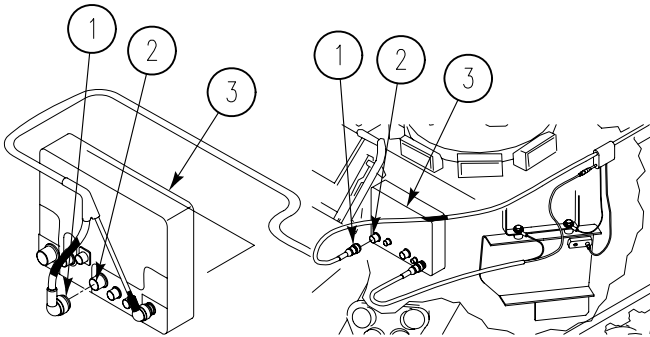
A2YN

1. Faulty DVE power switch. Replace DVE power switch (WP 0282 00).
2. Verify no faults found.

YES

A3Y

1. Remove cable 12461152 connector W3P2 (1) from connector A1J2 (2) on commander's display (3) and connector W3P1 (1) from connector A1J5 (2) on driver's display (3). Use multimeter to measure continuity.



2. Does multimeter read 0 ohms?

NO

A3YN

1. Faulty cable 12461152. Replace cable 12461152 (WP 0866 04).
2. Verify no faults found.

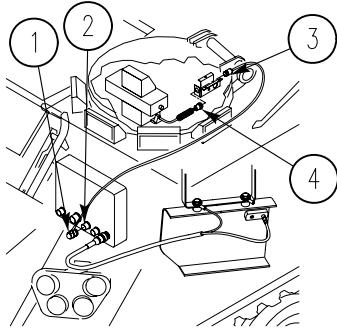
YES

**COMMANDER'S VISION ENHANCER (DVE) DISPLAY DOES NOT WORK
(M58 ONLY) — Continued**

0116 02

A4Y

1. Remove sensor video cable 12461148 connector W2P2 (1) from connector A1J2 (2) on driver's display and connector W2P1 (3) from connector W1P2 (4) on driver's hatch. Use multimeter to measure continuity.



2. Does multimeter read 0 ohms?

NO

A4YN

1. Faulty sensor video cable 12461148. Replace sensor video cable 12461148.
2. Verify no faults found.

YES

A5Y

1. Faulty sensor set assembly or DVE display.
2. Notify supervisor.

HOOK UP/REMOVE MSD/ICE TEST SET TO DCA 6

0117 00

THIS WORK PACKAGE COVERS:

- Hook-up (page 0117 00-1).
- Removal (page 0117 00-2).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

Tools and Special Tools

- MSD/ICE Test Set (WP 0926 00, Item 61)
- Electrical connector pliers (WP 0926 00, Item 31)

Equipment Condition

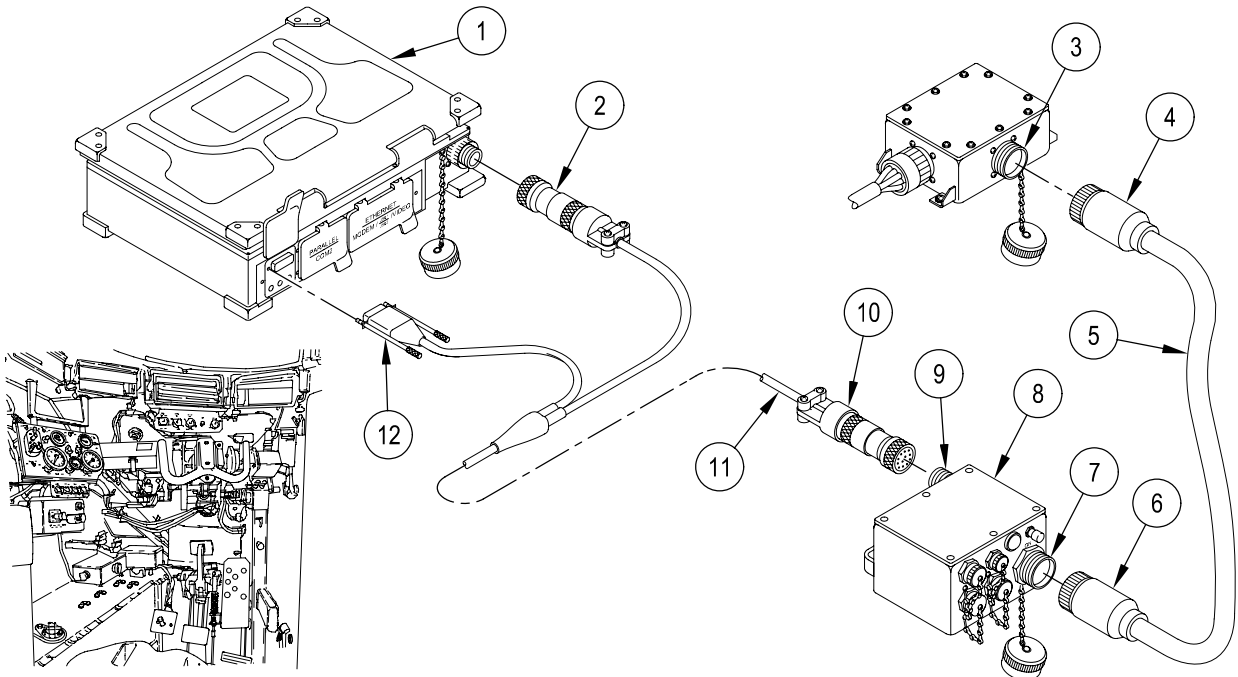
- Engine stopped (TM 9-2350-277-10)
- Vehicle blocked (TM 9-2350-277-10)
- All external/internal power OFF
(TM 11-7010-256-12&P) M1068A3

HOOK-UP

NOTE

Ensure vehicle engine and all internal/external components are turned off.

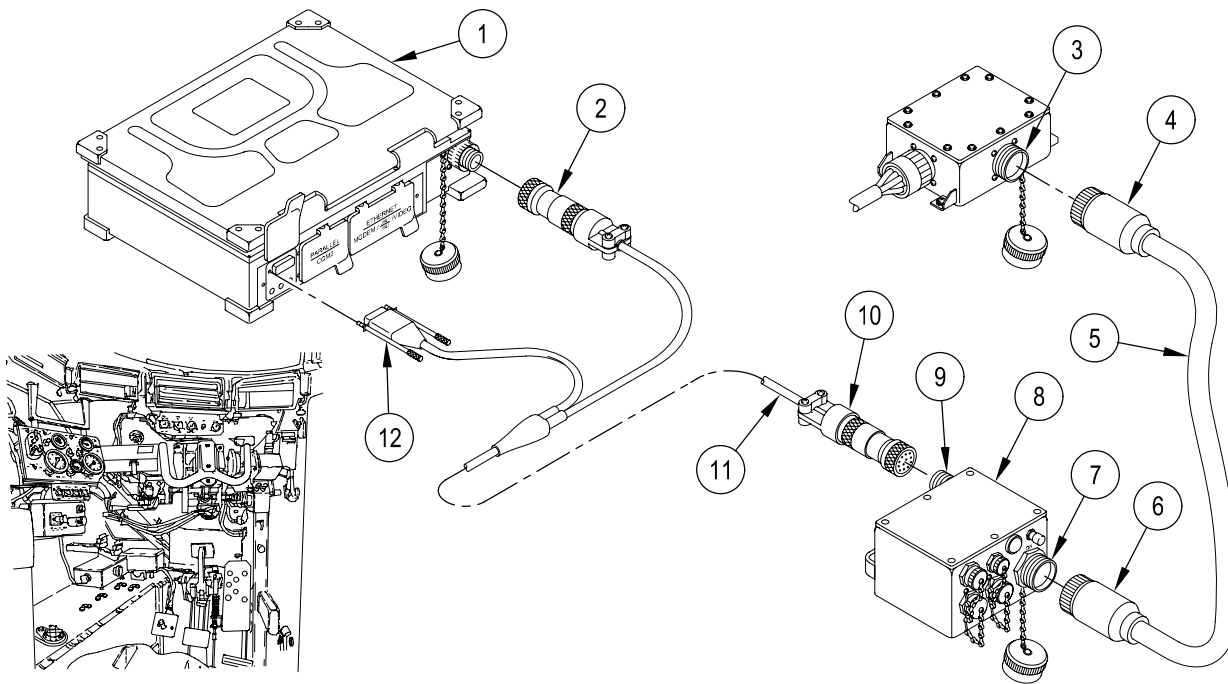
1. Remove MSD (1), ICE Box (8), and two cable assemblies 18876/13608011 (11) and W1 12258784 (5) from transit case.
2. Connect wiring harness 18876/13608011 (11) connectors P2 (2) and P3 (12) to MSD (1).
3. Connect wiring harness 18876/13608011 (11) connector P1 (10) to ICE Box (8) jack J6 (9).
4. Remove cap from DCA 6 jack J2 (3).
5. Connect wiring harness W1 12258784 (5) connector P1 (6) to ICE Box (8) jack J1 (7).
6. Connect wiring harness W1 12258784 (5) connector P2 (4) to DCA 6 jack J2 (3).



7. Power up MSD/ICE, push ICE Box circuit breaker in and press MSD PWR button.
8. If MSD/ICE fails to power up, notify supervisor.

REMOVAL

1. Power down MSD/ICE, select shutdown from MSD start menu and pull ICE Box circuit breaker out.
2. Disconnect wiring harness W1 12258784 (5) connector P2 (4) from DCA 6 jack J2 (3).
3. Install cap on DCA 6 jack J2 (3).
4. Disconnect wiring harness W1 12258784 (5) connector P1 (6) from ICE Box (8) jack J1 (7).
5. Disconnect wiring harness 18876/13608011 (11) connector P1 (10) from ICE Box (8) jack J6 (9).
6. Disconnect wiring harness 18876/13608011 (11) connectors P2 (2) and P3 (12) from MSD (1).
7. Stow MSD (1), ICE Box (8), and two cable assemblies 18876/13608011 (11) and W1 12258784 (5) in transit case.



MSD/ICE TEST 10 ENGINE RPM

0118 00

THIS WORK PACKAGE COVERS:

Test (page 0118 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **10 DCA Engine RPM** from **ENGINE** list box. Select **Run Test(s)** button.

CONDITION

Cranking

Idle

Governed speed (no load)

ENGINE RPM

100 Minimum

600-700

2900-3050

- a. If error message appears, see TM 9-6625-2301-14&P.
11. Return to troubleshooting.

MSD/ICE TEST 24 FUEL SUPPLY PRESSURE**0119 00****THIS WORK PACKAGE COVERS:**

Test (page 0119 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

ReferencesTM 9-2350-277-10
WP 0155 00Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE**All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection**

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE**Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.**

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **24 Fuel Pressure** from **FUEL SYSTEM** list box. Select **Run Test(s)** button.
11. Start engine and run at governed no load speed (WP 0155 00).
 - a. If MSD reads 55 (psi) or more, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
12. Stop engine. See TM 9-2350-277-10.
13. Return to troubleshooting.

MSD/ICE TEST 25 FUEL RETURN PRESSURE**0120 00****THIS WORK PACKAGE COVERS:**

Test (page 0120 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

ReferencesTM 9-2350-277-10
WP 0155 00Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE**All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection**

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE**Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.**

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **25 Fuel Return Press** from **FUEL SYSTEM** list box. Select **Run Test(s)** button.
11. Start engine and run at governed no load speed (WP 0155 00).
 - a. If MSD reads 18 (psi) or more, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
12. Stop engine. See TM 9-2350-277-10.
13. Return to Troubleshooting.

MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP

0121 00

THIS WORK PACKAGE COVERS:

Test (page 0121 00-1).

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-2350-277-10
WP 0155 00

Personnel Required

Unit Mech 63T10
Helper

Equipment Condition

Engine stopped (TM 9-2350-277-10)
Vehicle blocked (TM 9-2350-277-10)
MSD/ICE hooked up to DCA 6 (WP 0117 00)

NOTE

After testing should you want to re-test, press **Alt F4** to re-establish serial connection.

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All **M113A3** variants are covered under **M113A3-M1068A3 APC** vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once **MSD/ICE** hook up screen **OK** button is selected, the **MSD/ICE** will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the **MSD/ICE** hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for **DCA** offsets tests. Select **OK** button.
8. Use **Tab** and **Shift-Tab** to move from one list box to another.
9. Use **spacebar** to select/deselect the test.
10. Select **26 Fuel Filter Press Drp** from **FUEL SYSTEM** list box. Select **Run Test(s)** button.
11. Start engine. See TM 9-2350-277-10.
12. Perform road test (WP 0155 00).
13. When engine **RPM** reaches **2400** during road test, press **enter** to run test. Have helper assist.
14. **MSD** should display **PASS** or **FAIL**.
 - a. If error message appears, see TM 9-6625-2301-14&P.
15. Stop engine. See TM 9-2350-277-10.
16. Return to troubleshooting.

MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE**0122 00****THIS WORK PACKAGE COVERS:**

Test (page 0122 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

WP 0155 00

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **30 Turbo Discharge Press** from **ENGINE** list box. Select **Run Test(s)** button.
11. Start engine. See TM 9-2350-277-10.
12. Perform road test (run acceleration portion after warming up) (WP 0155 00).
 - a. If MSD reads 20 or more, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
13. Stop engine. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 32 AIR BOX PRESSURE**0123 00****THIS WORK PACKAGE COVERS:**

Test (page 0123 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

WP 0155 00

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE**All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection**

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE**Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.**

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **32 Airbox Pressure** from **ENGINE** list box. Select **Run Test(s)** button.
11. Start engine. See TM 9-2350-277-10.
12. Accelerate engine to governed no load speed (WP 0155 00). Record reading.
 - a. If MSD reads 6.0 or more at no load governed RPM, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
13. Stop engine. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 67 BATTERY VOLTAGE

0124 00

THIS WORK PACKAGE COVERS:

Test (page 0124 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **67 Battery Voltage** from **STARTING SYSTEM** list box. Select **Run Test(s)** button.

CONDITIONS

Engine off/MASTER SWITCH OFF

Cranking engine fuel off

Charging 1100-1300 RPM/service lights on

VOLTS

21 or more

17 or more

26 to 29.5

- a. If error message appears, see TM 9-6625-2301-14&P.
11. Return to troubleshooting.

MSD/ICE TEST 68 STARTER MOTOR VOLTAGE

0125 00

THIS WORK PACKAGE COVERS:

Test (page 0125 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **68 Starter Motor Voltage** from **STARTING SYSTEM** list box. Select **Run Test(s)** button.
11. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
12. Press START switch for 3 seconds and observe MSD reading.
 - a. If display reads 16 (volts) or more, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
13. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP**0126 00****THIS WORK PACKAGE COVERS:**

Test (page 0126 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE**All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection**

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE**Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.**

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **69 Starter Neg Cable Drp** from **STARTING SYSTEM** list box. Select **Run Test(s)** button.
11. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
12. Press START switch for 3 seconds and observe MSD reading.
 - a. If display reads .60 (volts) or less, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
13. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE

0127 00

THIS WORK PACKAGE COVERS:

Test (page 0127 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **70 Starter Solenoid Volts** from **STARTING SYSTEM** list box. Select **Run Test(s)** button.
11. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
12. Press START switch for 3 seconds and observe MSD reading.
 - a. If display reads 16 (volts) or more, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
13. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 71 STARTER CURRENT (AVERAGE)

0128 00

THIS WORK PACKAGE COVERS:

Test (page 0128 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **71/80 Start/Battery Current** from **STARTING SYSTEM** list box. Select **Run Test(s)** button.
11. Crank engine for five seconds and note steady reading.
 - a. If MSD reads between 200 and 490, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
12. Return to troubleshooting.

MSD/ICE TEST 72 STARTER CURRENT (FIRST PEAK)

0129 00

THIS WORK PACKAGE COVERS:

Test (page 0129 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **72 DCA 1stPeak** from **SPECIAL TESTS** list box. Select **Run Test(s)** button.
11. Crank engine for one second and note reading displayed on MSD.
 - a. If MSD reads between 900 and 1540, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
12. Return to troubleshooting.

MSD/ICE TEST 73 BATTERY RESISTANCE

0130 00

THIS WORK PACKAGE COVERS:

Test (page 0130 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

All electrical accessories turned off (TM 9-2350-277-10)

Fuel OFF, engine must not start(TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **73 1stPeak: TK current** from **SPECIAL TESTS** list box. Select **Run Test(s)** button.
 - a. If MSD display is erratic or cannot be obtained, go to MSD/ICE DCA battery voltage diagnostic troubleshooting (WP 0141 00).
11. When **GO** appears , crank engine over for two seconds or until one of the following appears on display:

DISPLAY	PERFORM/RESULT
OFF	Stop cranking and wait for message to appear.
A number	BATTERY RESISTANCE (go to Step 11)
.9.9.9.9	Beyond range of MSD cannot be measured
Error message	See TM 9-6625-2301-14&P
(—)	MSD lost power during test. Batteries may be too weak. Try powering MSD using external source.

12. Observe MSD reading.
 - a. If MSD reading is **30** (milliohms) or less, test passes.
 - b. If MSD reading is more than **30** (milliohms), test fails.

MSD/ICE TEST 80 BATTERY CURRENT

0132 00

THIS WORK PACKAGE COVERS:

Test (page 0132 00-1).

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

Electrical connector pliers (WP 0926 00, Item 31)

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

All electrical accessories turned off (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **71/80 Start/Battery Current** from **STARTING SYSTEM** list box. Select **Run Test(s)** button.
11. Turn MASTER SWITCH to ON. See TM 9-2350-277-10.
12. Depress START button for five seconds.
 - a. If MSD reads **0.0** or less, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
 - c. If engine cranks normally, but reading is erratic or cannot be obtained, go to MSD/ICE DCA current shunt diagnostic troubleshooting (WP 0142 00).
13. Turn MASTER SWITCH to OFF. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE**0133 00****THIS WORK PACKAGE COVERS:**

Test (page 0133 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **82 Alt/Gen Out Voltage** from **CHARGING SYSTEM** list box. Select **Run Test(s)** button.
11. Start engine and run at 1400-1600 RPM. See TM 9-2350-277-10.
12. Turn MASTER LIGHT switch to SERV DRIVE.
13. Observe MSD reading.
 - a. If MSD reads between **26** to **29.5** (volts), test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
 - c. If reading is erratic or cannot be obtained, go to MSD/ICE test 82 diagnostic troubleshooting (WP 0151 00).
14. Stop engine. See TM 9-2350-277-10.
15. Turn MASTER LIGHT switch to OFF.
16. Return to troubleshooting.

MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE**0134 00****THIS WORK PACKAGE COVERS:**

Test (page 0134 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE**All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection**

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

NOTE**Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.**

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **83 Alt/Gen Field Voltage** from **CHARGING SYSTEM** list box. Select **Run Test(s)** button.
11. Start engine and run at 1400-1600 RPM. See TM 9-2350-277-10.
12. Observe MSD display.
 - a. If MSD reads **26** to **29.5** (volts), test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
 - c. If reading is erratic or cannot be obtained, go to MSD/ICE test 83 diagnostic troubleshooting (WP 0152 00).
13. Stop engine. See TM 9-2350-277-10.
14. Return to troubleshooting.

MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP**0135 00****THIS WORK PACKAGE COVERS:**

Test (page 0135 00-1).

INITIAL SETUP:Maintenance Level

Unit

Personnel Required

Unit Mech 63T10

References

TM 9-2350-277-10

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

MSD/ICE hooked up to DCA 6 (WP 0117 00)

TEST

1. Select **ICE Testing** from programs menu.
2. Select button **1. Serial ICE**
3. Select button **1. ICE Tests**

NOTE

All M113A3 variants are covered under M113A3-M1068A3 APC vehicle selection

4. Select **M113A3-M1068A3 APC**, then select the **OK** button.

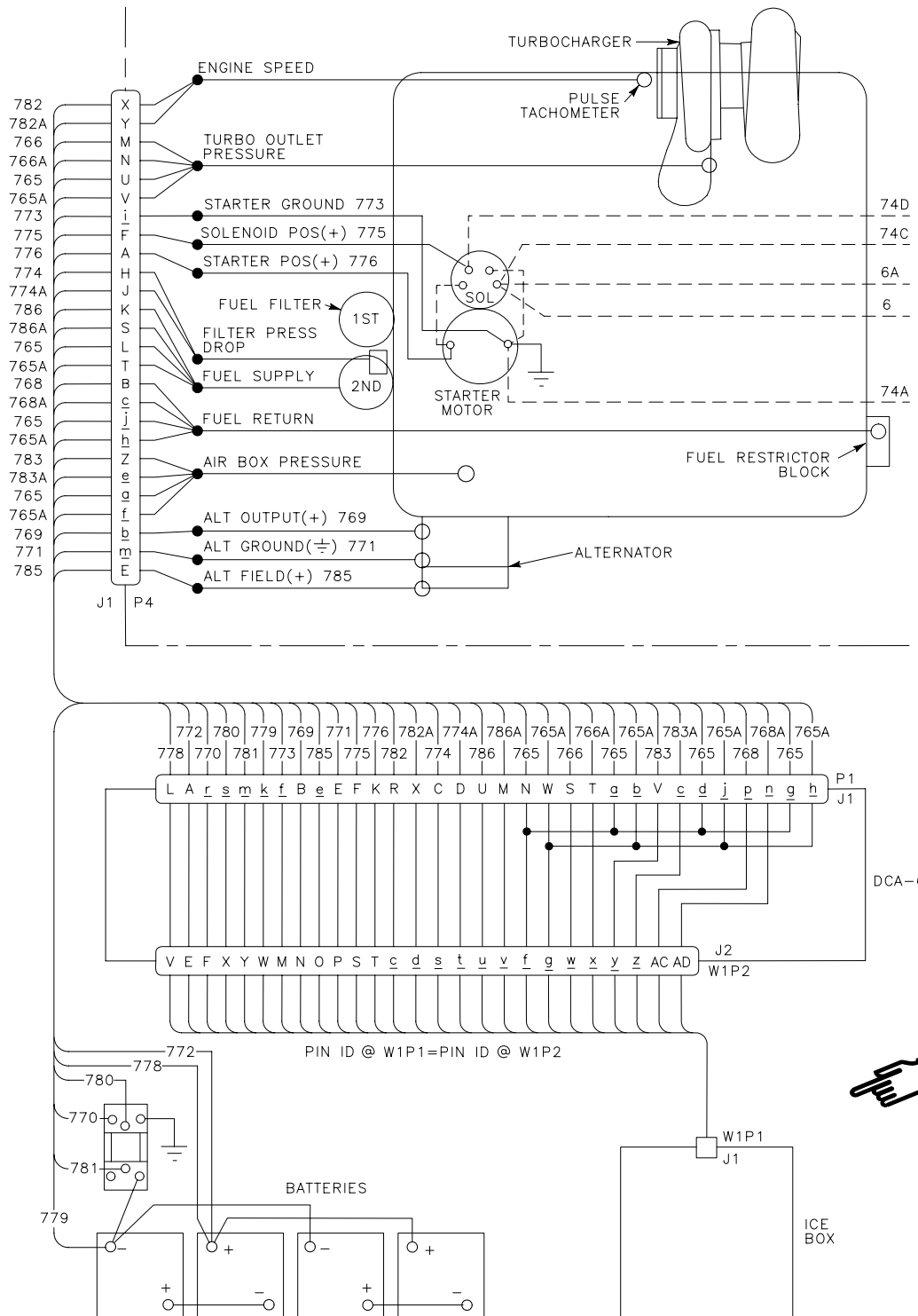
NOTE

Once MSD/ICE hook up screen OK button is selected, the MSD/ICE will perform a self test. If self test fails, notify supervisor.

5. Select **OK** button on the MSD/ICE hook up screen to proceed.
6. Select **OK** button after successful self test.
7. Follow on screen preparation for DCA offsets tests. Select **OK** button.
8. Use Tab and Shift-Tab to move from one list box to another.
9. Use spacebar to select/deselect the test.
10. Select **84 Alt/Gen Neg Cable Drp** from **CHARGING SYSTEM** list box. Select **Run Test(s)** button.
11. Start engine and run at 1400-1600 RPM. See TM 9-2350-277-10.
12. Turn MASTER LIGHT switch to SER DRIVE.
13. Observe MSD display.
 - a. If MSD reads **0.60** (volts), or less, test passes.
 - b. If error message appears, see TM 9-6625-2301-14&P.
 - c. If reading is erratic or cannot be obtained, go to MSD/ICE test 84 diagnostic troubleshooting (WP 0153 00).
14. Stop engine. See TM 9-2350-277-10.
15. Turn MASTER LIGHT switch to OFF.
16. Return to troubleshooting.

MSD/ICE SCHEMATIC

0136 00



MSD/ICE TEST 10, 11, 12 AND 13 DIAGNOSTIC TROUBLESHOOTING

0140 00

INITIAL SETUP:

Maintenance Level

Unit

References

WP 0118 00

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- MSD/ICE MSD hooked up to DCA 6 (WP 0117 00)
- Transmission in SL position
- Power plant access door open (TM 9-2350-277-10)

Materials/Parts

- Insulating Tape (WP 0928 00, Item 39)

Personnel Required

Mechanic

T

1. Perform MSD/ICE test 10 engine RPM (WP 0118 00).
2. Is display 0 or erratic?

TN

1. Faulty MSD.
2. Notify supervisor.

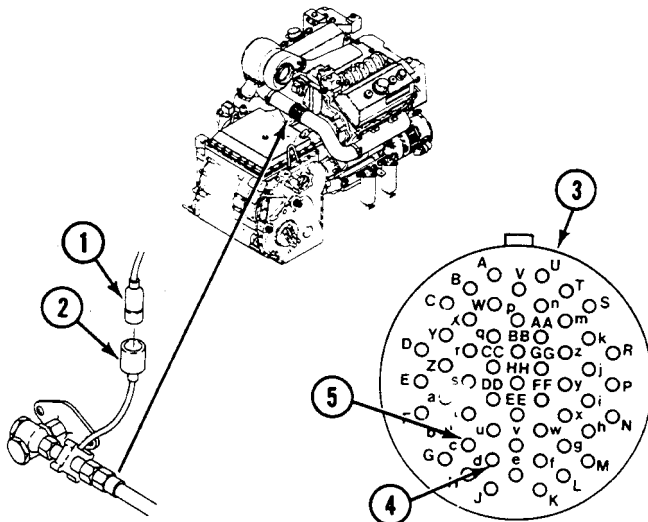
YES

Y

1. Remove plug W1P1 from MSD jack J1.
2. Remove harness 12354672 P2 (1) from pulse tachometer (2).
3. Measure resistance between plug W1P1 (3), pins d (4) and c (5).
4. Does MSD read infinity?

YN

GO TO BY (PAGE 0140 00-2)

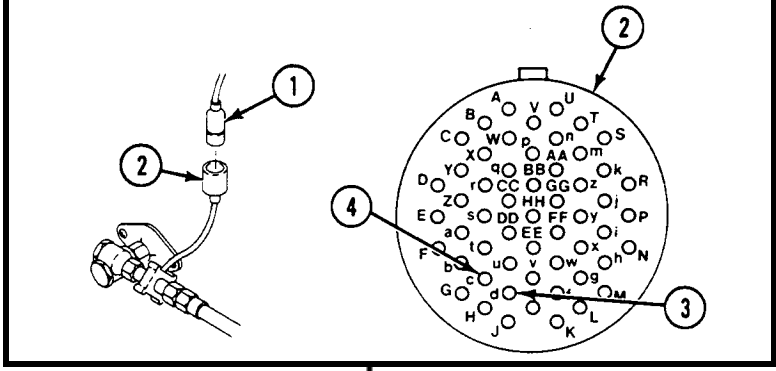


YES

2Y

1. Install jumper wire on harness 12354672 P2 (1) between pins.
2. Measure resistance between plug W1P1 (2), pins d (3) and c (4).
3. Does MSD read 0 ohm?

NO → **2YN**
GO TO CY (PAGE 0140 00-4)



YES

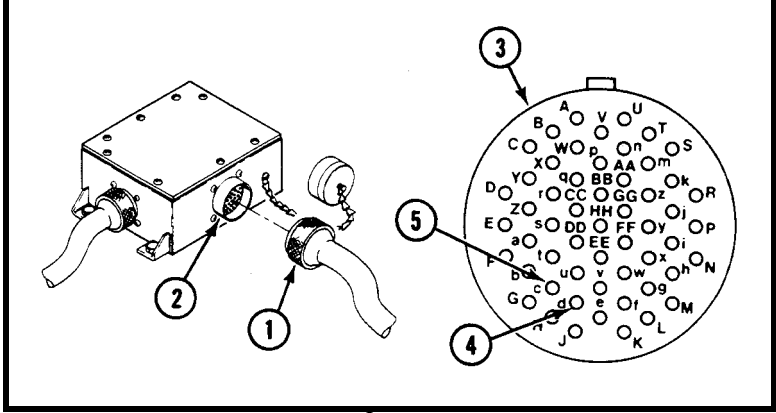
3Y

1. Replace pulse tachometer (WP 0867 00).
2. Verify no faults found.

BY

1. Remove plug W1P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between plug W1P1 (3), pins d (4) and c (5).
3. Does MSD read infinity?

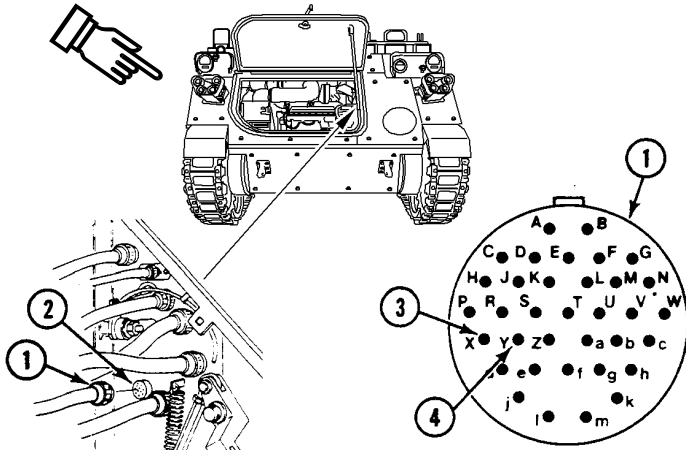
NO → **BYN**
1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.



YES

B2Y

1. Remove harness 12354672 P4 (1) from jack 12354593 J1 (2) at bulkhead.
2. Measure resistance between harness 12354672 P4 (1), pins X (3) and Y (4).
3. Does MSD read infinity?



NO

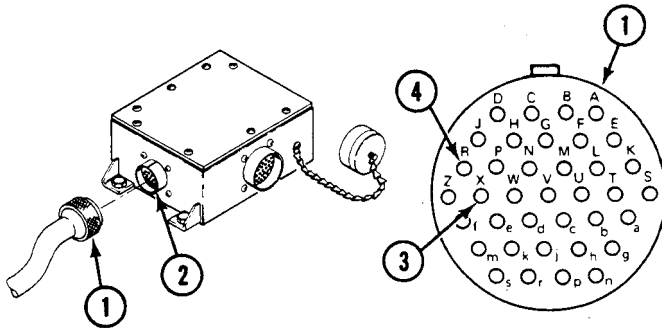
B2YN

1. Replace harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

B3Y

1. Remove harness 12354593 P1 (1) MSD/ICE distribution box jack J1 (2).
2. Measure resistance between harness 12354593 P1 (1), pins X (3) and R (4).
3. Does MSD read infinity?



NO

B3YN

1. Replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

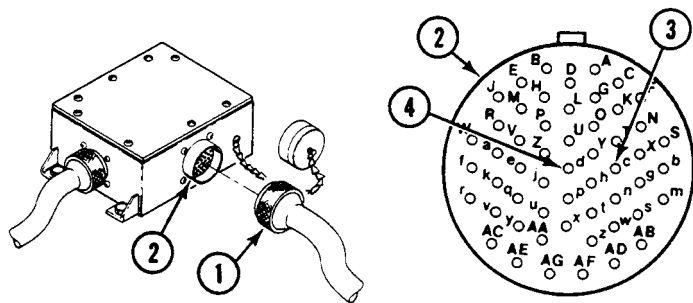
YES

B4Y

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

CY

1. Remove plug W1P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins c (3) and d (4).
3. Does MSD read more than 0 ohm?



NO

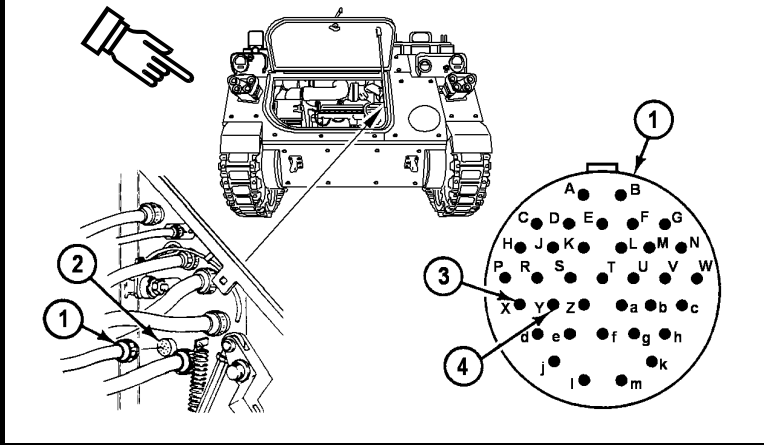
CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Remove harness 12354672 P4 (1) from harness 12354593 J1 (2) at bulkhead.
2. Measure continuity between harness 12354672 P4 (1), pins X (3) and Y (4).
3. Does MSD read 0 ohm?



NO

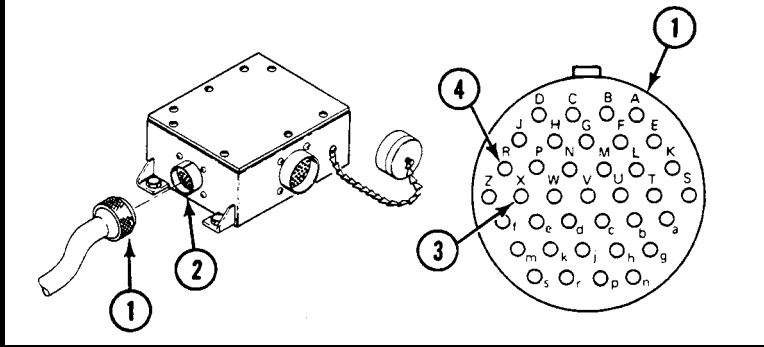
C2YN

1. Repair/replace wiring harness 12354672 (WP 0382 00 or WP 0882 00).
2. Verify no faults found.

YES

C3Y

1. Install harness 12354672 P4 on jack 12354593 J1 at bulkhead.
2. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
3. Measure resistance between harness 12354593 P1 (1), pins X (3) and R (4).
4. Does MSD read 0 ohm?



NO

C3YN

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

C4Y

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

DCA BATTERY VOLTAGE DIAGNOSTIC TROUBLESHOOTING

0141 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

MSD/ICE Test Set (WP 0926 00, Item 61)

Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

Battery compartment cover opened (TM 9-2350-277-10)

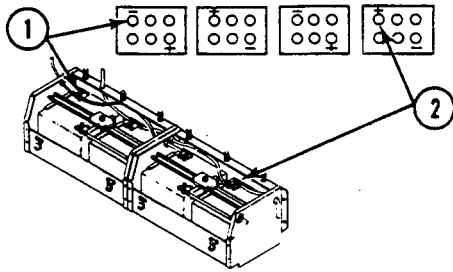
Personnel Required

Mechanic

Helper (H)

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 89. See TM 9-6625-2301-14&P.
4. Measure voltage between battery terminals (1) and (2) with engine cranking for 3 seconds.
5. Does MSD read 17 volts or more?



YES

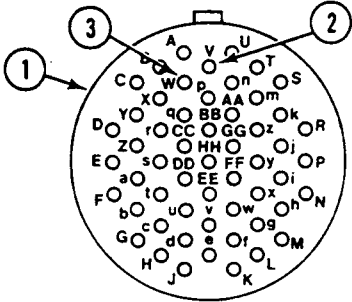
NO

TN

1. Service vehicle batteries (WP 0337 00 thru WP 0358 00).
2. Verify no faults found.

Y

1. Measure voltage between plug W1 P1 (1), pin V (+) (2) and ground. MSD should read 22 volts or more.
2. Set up Test 91. See TM 9-6625-2301-14&P.
3. Measure voltage between plug W1 P1 (1), pin W (-) (3) and ground. MSD should read 22 volts or more.
4. Does MSD indicate a fault?



NO

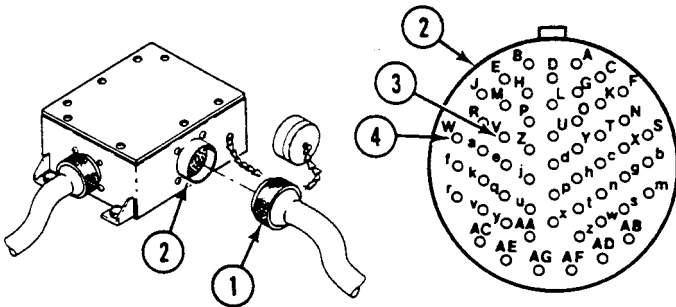
YN

1. Faulty MSD.
2. Notify supervisor.

YES

2Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure voltage between MSD/ICE distribution box jack J2 (2), pins V (+) (3) and W (-) (4).
3. Does MSD indicate other than battery voltage?



NO

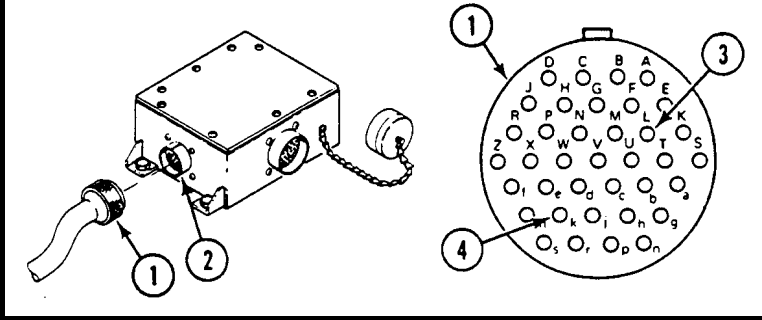
2YN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

3Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure voltage between 12354593 P1 (1), pins L (+) (3) and k (-) (4).
3. Does MSD indicate other than battery voltage?



NO

3YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

YES

4Y

1. Repair/replace wiring harness 12354593 circuit 778 or 779 (WP 0382 00 or WP 0882 00).
2. Verify no faults found.

DCA CURRENT SHUNT DIAGNOSTIC TROUBLESHOOTING

0142 00

INITIAL SETUP:

Maintenance Level

Unit

Personnel Required

Mechanic

Tools and Special Tools

MSD/ICE Test Set (WP 0926 00, Item 61)

Jumper wire

References

TM 9-6625-2301-14&P

Materials/Parts

Insulating Tape (WP 0928 00, Item 39)

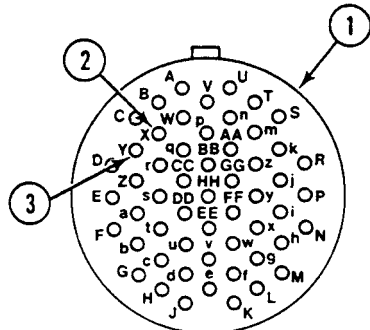
Equipment Condition

Engine stopped (TM 9-2350-277-10)

Vehicle blocked (TM 9-2350-277-10)

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 89. See TM 9-6625-2301-14&P.
4. Measure resistance between plug W1 P1 (1), sockets X (2) and Y (3).
5. Does MSD read 0 ohms?



YES

NO

TN

GO TO BY (PAGE 0142 00-3)

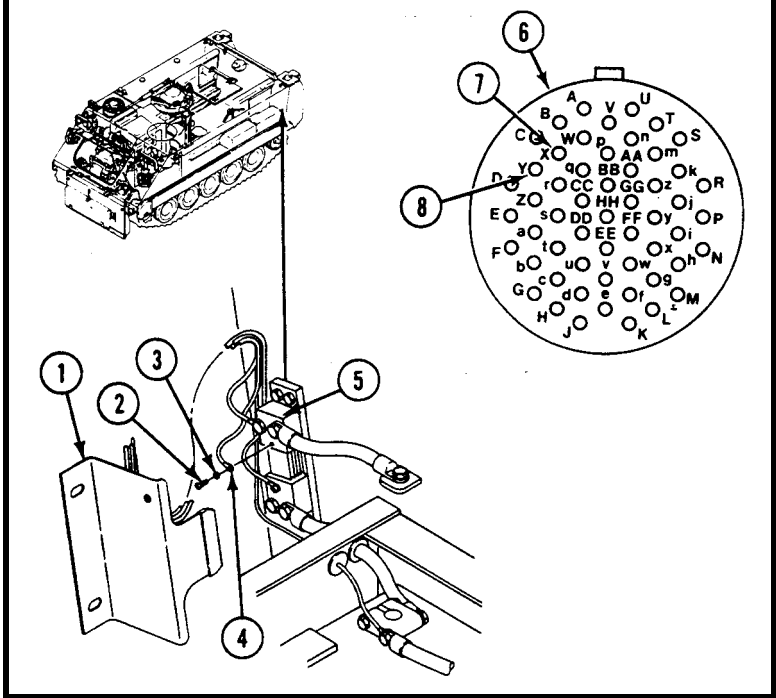
Y

1. Remove shunt guard (1) with attached lead.
2. Remove screw (2), lockwasher (3), and harness 12354593 circuit 780 terminal lead E1 (4) from current shunt 1228937 (5).
3. Wrap terminal lead E1 (4) with insulating tape.
4. Measure resistance between plug W1 P1 (6), socket X (7) and Y (8).
5. Does MSD read infinity?

NO

YN

GO TO CY (PAGE 0142 00-4)



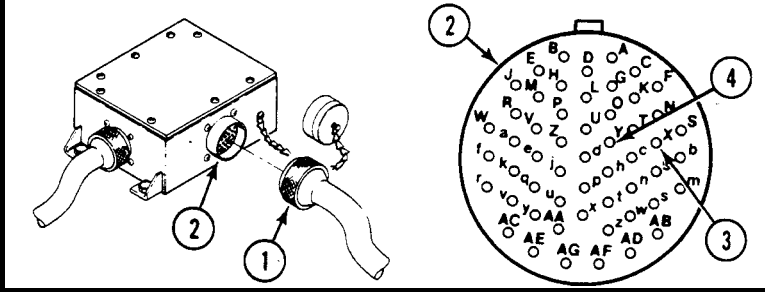
YES

2Y

1. Faulty MSD.
2. Notify supervisor.

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), socket X (3) and Y (4).
3. Does MSD read more than one ohm?



NO

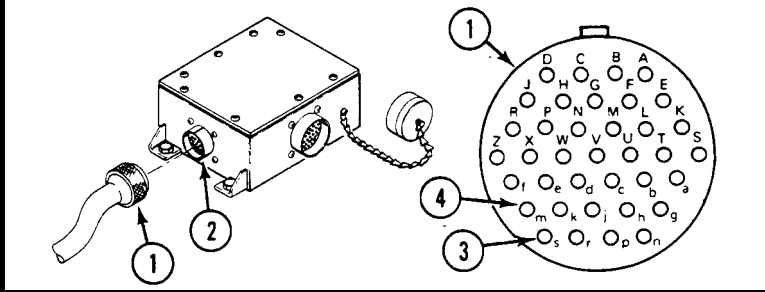
BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between harness 12354593 P1 (1), socket s (3) and m (4).
3. Does MSD read more than one ohm?



NO

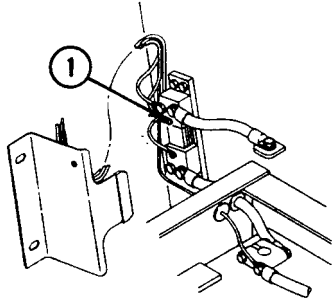
B2YN

1. Replace MSD/ICE distribution box (WP 0874 00 thru WP 0877 00).
2. Verify no faults found.

YES

B3Y

1. Inspect harness 123454593 circuit 780 and 781 terminals (1) on current shunt.
2. Are all connections tight, clean, and free from damage?



NO

B3YN

1. Clean, tighten or replace parts, as necessary (WP 0337 00 thru WP 0358 00).
2. Verify no faults found.

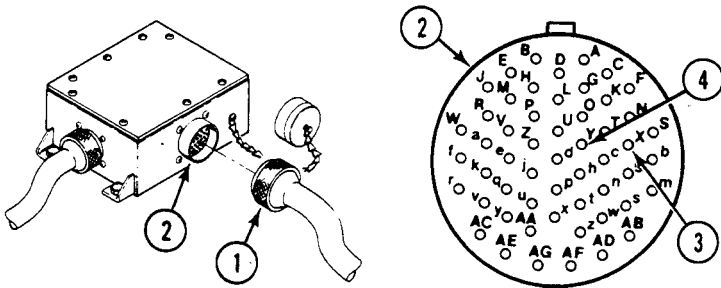
YES

B4Y

1. Repair/replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

CY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), socket X (3) and Y (4).
3. Does MSD still fail to read infinity?



NO

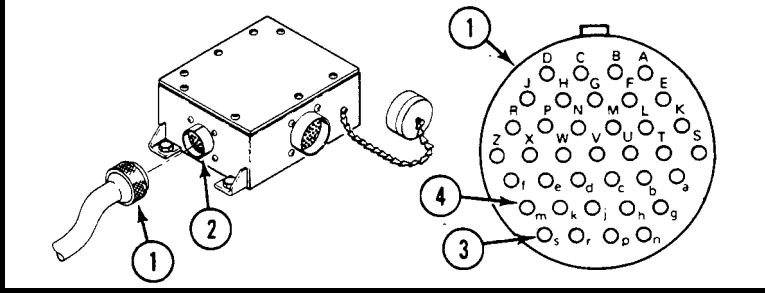
CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between harness 12354593 P1 (1), socket s (3) and m (4).
3. Does MSD still fail to read infinity?



NO

C2YN

1. Replace MSD/ICE distribution box (WP 0874 00 thru WP 0877 00).
2. Verify no faults found.

YES

C3Y

1. Repair/Replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC TROUBLESHOOTING

0143 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

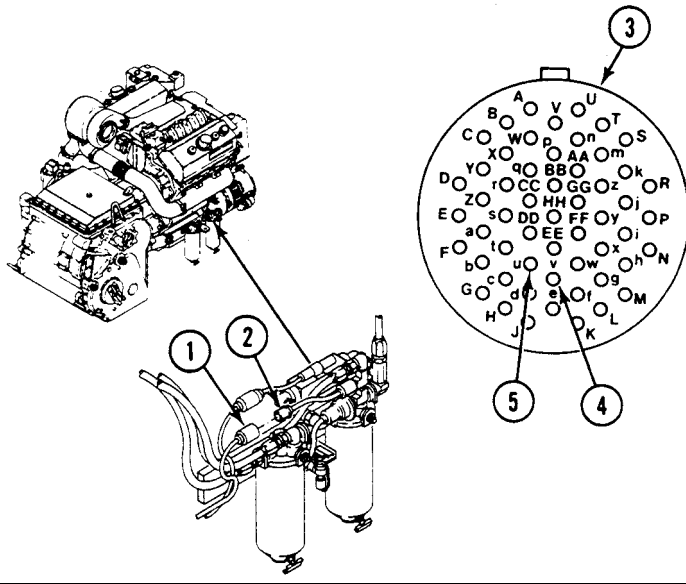
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)

Personnel Required

Mechanic

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Remove harness 12345672 plug P8 (1) from fuel supply pressure tachometer (2).
4. Set up Test 91. See TM 9-6625-2301-14&P.
5. Measure resistance between plug W1 P1 (3), pins v (4) and u (5).
6. Does MSD read infinity?



NO

TN

GO TO BY (PAGE 0143 00-5)

YES

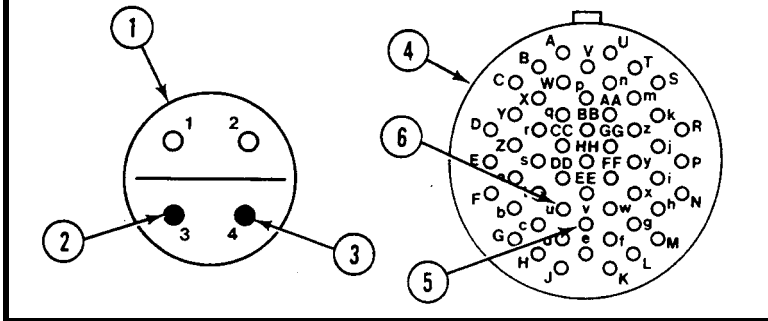
**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

Y

1. Install jumper wire between harness 12354672 plug P8 (1), pins 3 (2) and 4 (3).
2. Measure resistance between plug W1 P1 (4), pins v (5) and u (6).
3. Does MSD read 0 ohms?

NO → **YN**
GO TO CY (PAGE 0143 00-6)

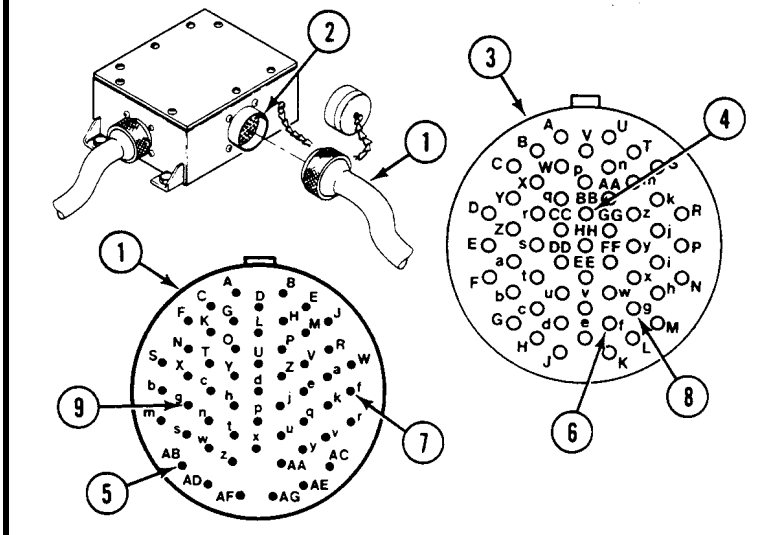


YES

2Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between the following plug pins:
W1 P1 (3), pin BB (4) to W1 P2 (1), pin AB (5),
W1 P1 (3), pin f (6) to W1 P2 (1), pin f (7),
W1 P1 (3), pin g (8) to W1 P2 (1), pin g (9).
3. Does MSD read 0 ohms for each measurement?

NO → **2YN**
1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.



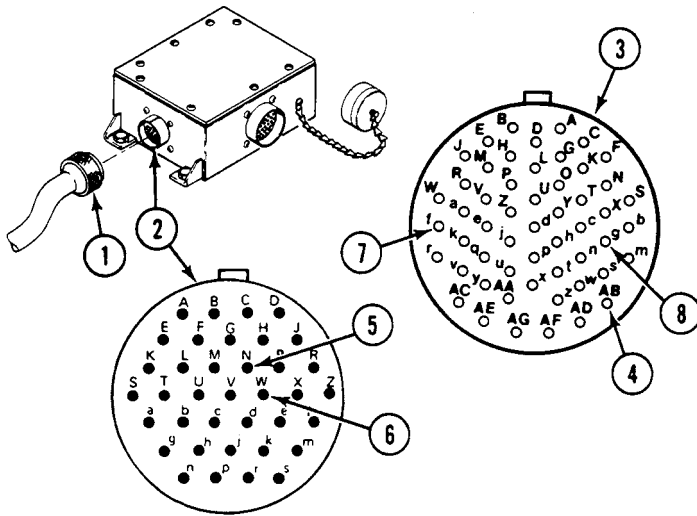
YES

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

3Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Set up Test 92. See TM 9-6625-2301-14&P.
3. Measure MSD/ICE distribution box resistance as follows:
 - between J2 (3) pin AB (4) and J2 (3) pin f (7),
 - between J2 (3) pin AB (4) and J2 (3) pin g (8),
 - between J2 (3) pin AB (4) and jack J1 (2) pin N (5),
 - between J2 (3) pin AB (4) and jack J1 (2) pin W (6).
4. Does MSD read between 3600 and 4400 ohms for each measurement?



NO

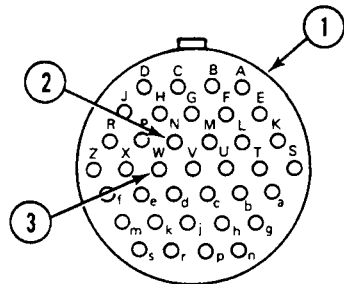
3YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

YES

4Y

1. Set up Test 91. See TM 9-6625-2301-14&P.
2. Measure resistance between harness 12354593 plug P1 (1), pins N (2) and W (3).
3. Does MSD read infinity?



NO

4YN

GO TO DY (PAGE 0143 00-8)

YES

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

5Y

1. Move jumper wire on harness 12354672 plug P8 (1) from pins 3 and 4 to pins 1 (2) and 2 (3).
2. Measure resistance between harness 12354593 plug P1 (1), pins N (5) and W (6).
3. Does MSD read 0 ohms?

NO → **5YN**
GO TO EY (PAGE 0143 00-9)

YES

6Y

1. Has fuel supply pressure tachometer been replaced?

NO → **6YN**
1. Replace fuel supply pressure tachometer (WP 0324 00).
2. Verify no faults found.

YES

7Y

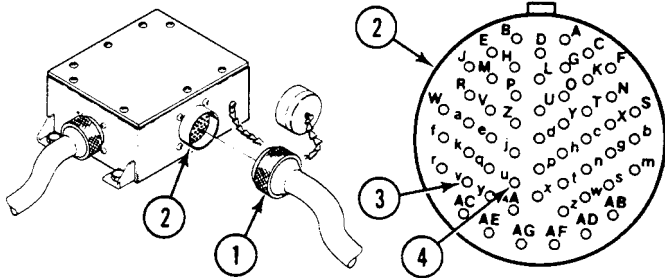
1. Faulty MSD.
2. Notify supervisor.

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins v (3) and u (4). MSD should read infinity.
3. Does MSD indicate a fault?



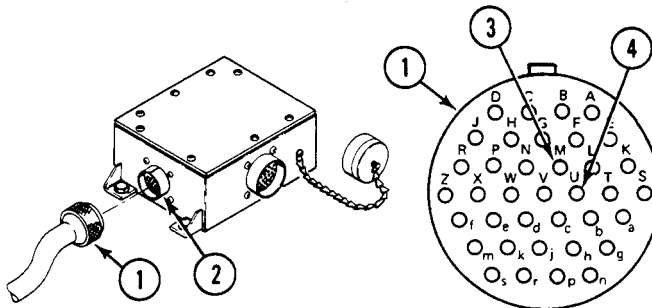
YES

BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins M (3) and U (4). MSD should read infinity.
3. Does MSD indicate a fault?



YES

B2YN

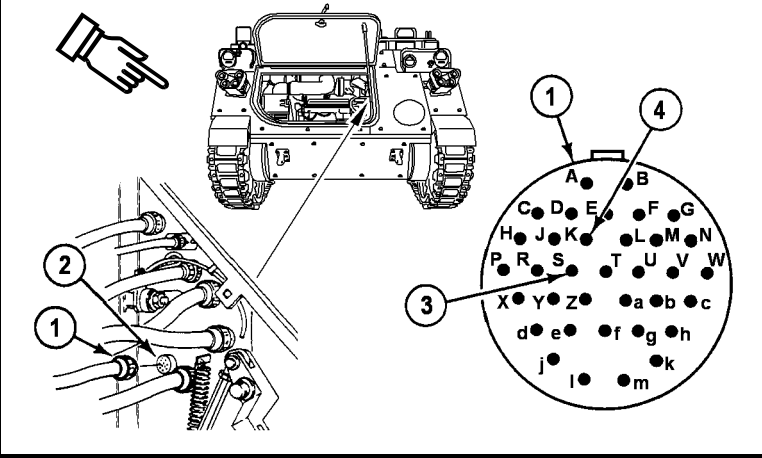
1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins S (3) and K (4).
3. Does MSD read infinity?



NO

B3YN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

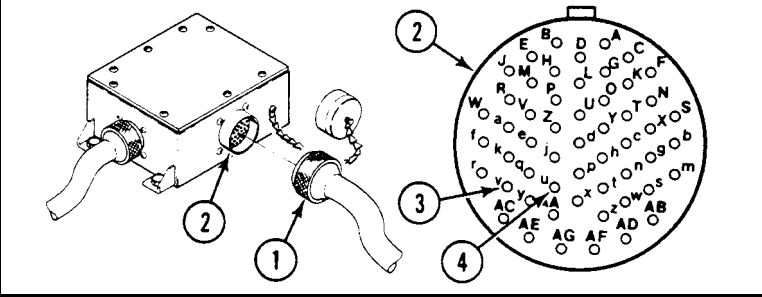
YES

B4Y

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

CY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins v (3) and u (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

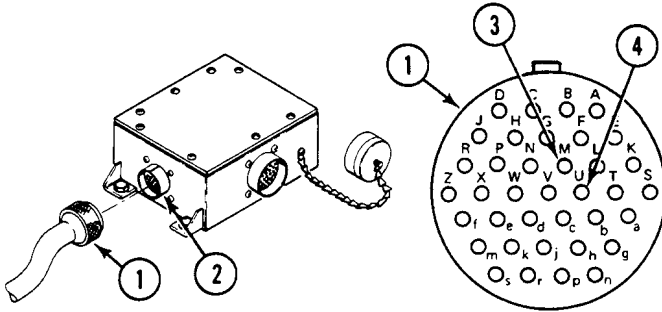
YES

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins M (3) and U (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

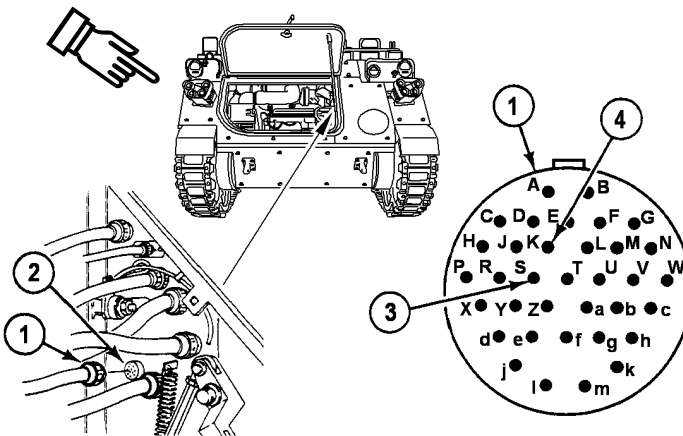
C2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

YES

C3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins S (3) and K (4).
3. Does MSD read 0 ohms?



NO

C3YN

1. Repair/replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

C4Y

1. Repair/replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

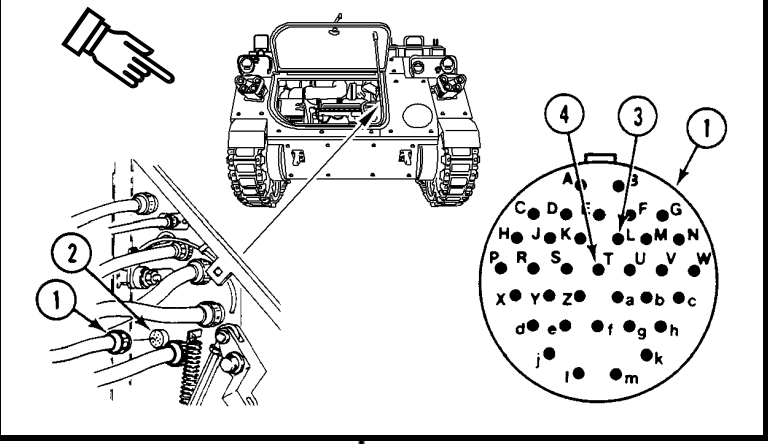
DY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins L (3) and T (4). Use MSD.
3. Does MSD read infinity?

NO

DYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.



YES

D2Y

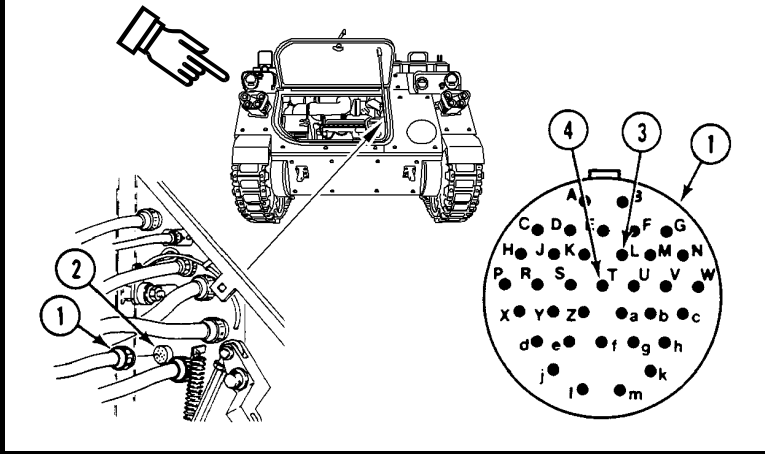
1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 24 FUEL SUPPLY PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0143 00

EY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins L (3) and T (4).
3. Does MSD read 0 ohms?



NO

EYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

E2Y

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC TROUBLESHOOTING

0144 00

INITIAL SETUP:

Maintenance Level

Unit

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)

Personnel Required

Mechanic

References

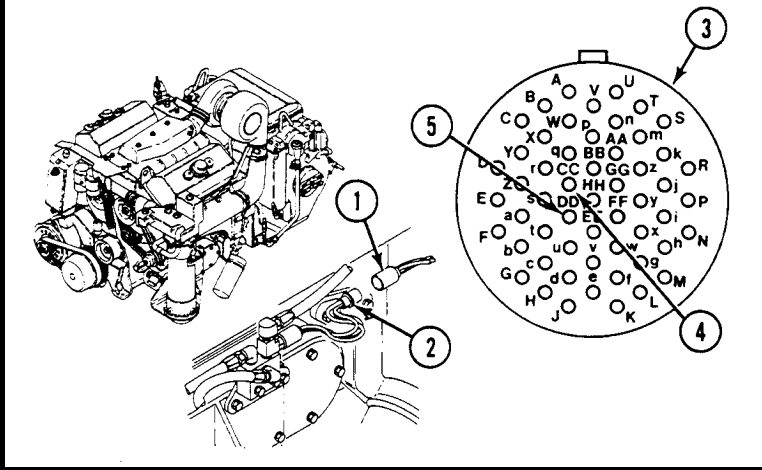
TM 9-6625-2301-14&P

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- MSD/ICE hooked up to vehicle batteries (TM 9-6625-2301-14&P)
- Power plant access door open (TM 9-2350-277-10)
- Power plant rear access panels removed (WP 0439 00)

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Remove harness 12345672 plug (1) from fuel pressure tachometer jack (2).
5. Measure resistance between W1 P1 (3), pins CC (4) and DD (5).
6. Does MSD read infinity?



YES



TN

GO TO BY (PAGE 0144 00-5)

NO



**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

Y

1. Install jumper wire between harness 12354672 plug P1 (1), pins 3 (2) and 4 (3).
2. Measure resistance between plug W1 P1 (4), pins CC (5) and DD (6).
3. Does MSD read 0 ohms?

NO → **YN**
GO TO CY (PAGE 0144 00-7)

YES

2Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between the following plug pins:
W1 P1 (3), pin BB (4) to W1 P2 (1), pin AB (5),
W1 P1 (3), pin f (6) to W1 P2 (1), pin f (7),
W1 P1 (3), pin g (8) to W1 P2 (1), pin g (9).
3. Does MSD read 0 ohms for each measurement?

NO → **2YN**
1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

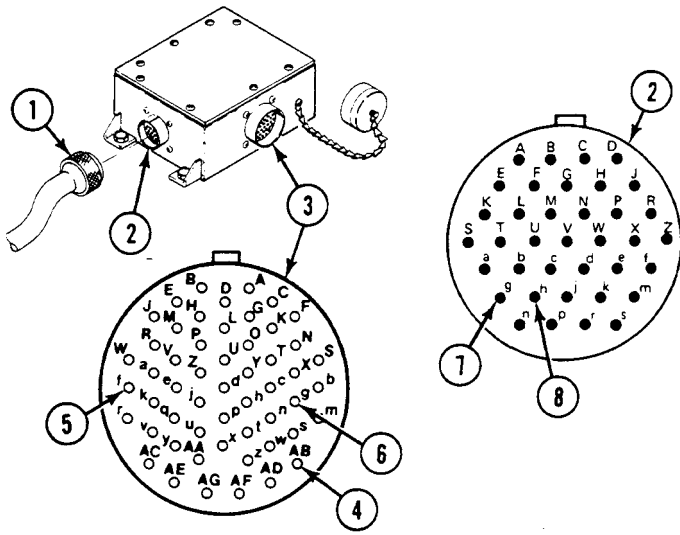
YES

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

3Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (3), pin AB (4) and the following jack pins:
 J2 (3), pin f (5)
 J2 (3), pin g (6)
 J1 (2), pin g (7)
 J1 (2), pin h (8)
3. Does MSD read between 3600 and 4400 ohms for each measurement?



NO

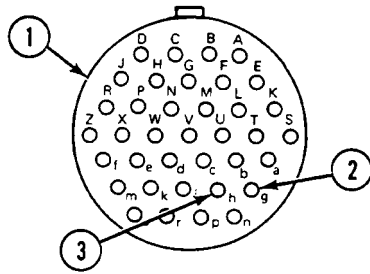
3YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

YES

4Y

1. Measure resistance between harness 12354593 plug P1 (1), pins g (2) and h (3).
2. Does MSD read infinity?



NO

4YN

GO TO DY (PAGE 0144 00-9)

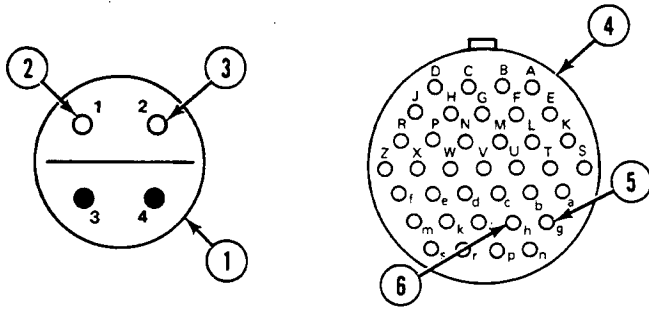
YES

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

5Y

1. Move jumper wire on harness 12354672 plug P1 (1) from pins 3 and 4 to pins 1 (2) and 2 (3).
2. Measure resistance between harness 12354593 plug P1 (4), pins g (5) and h (6).
3. Does MSD read 0 ohms?



NO → **5YN**
GO TO EY (PAGE 0144 00-10)

YES

6Y

1. Has fuel return pressure tachometer been replaced?

NO → **6YN**
1. Replace fuel return pressure tachometer (WP 0325 00).
2. Verify no faults found.

YES

7Y

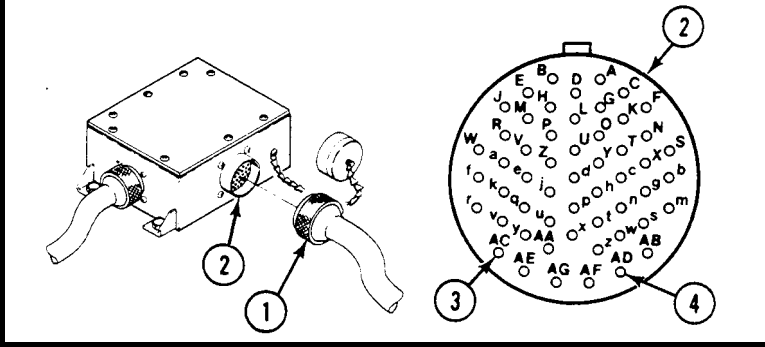
1. Faulty MSD.
2. Notify supervisor.

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

BY

1. Remove plug W1 P2 (1) from DCA 6 jack J2 (2).
2. Measure resistance between DCA 6 jack J2 (2), pins AC (3) and AD (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

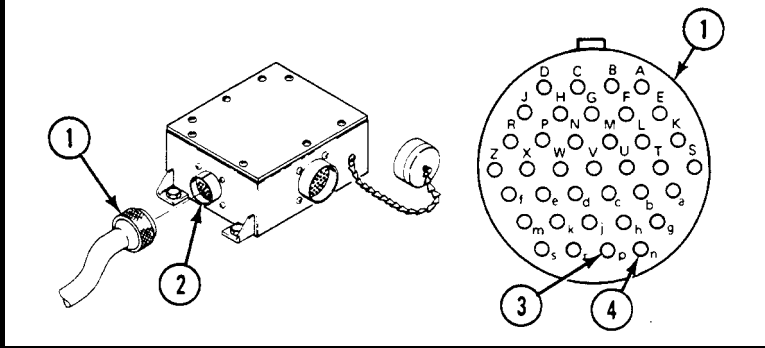
BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins p (3) and n (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

B2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

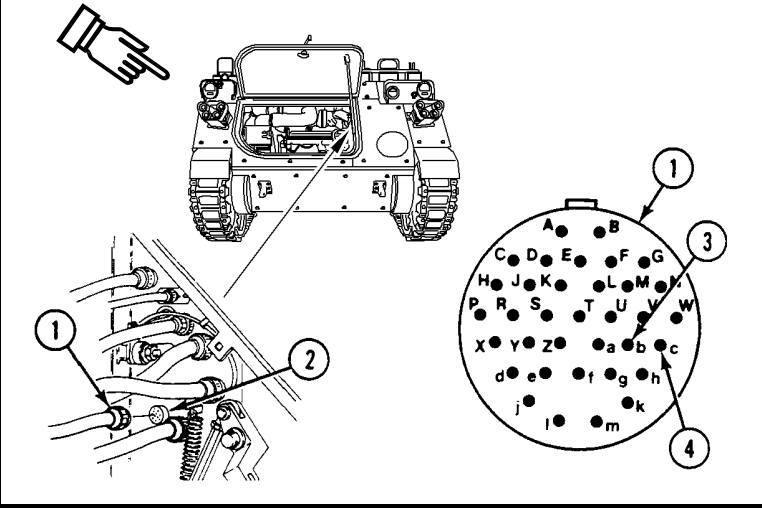
YES

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins b (3) and c (4).
3. Does MSD read infinity?



NO

B3YN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

B4Y

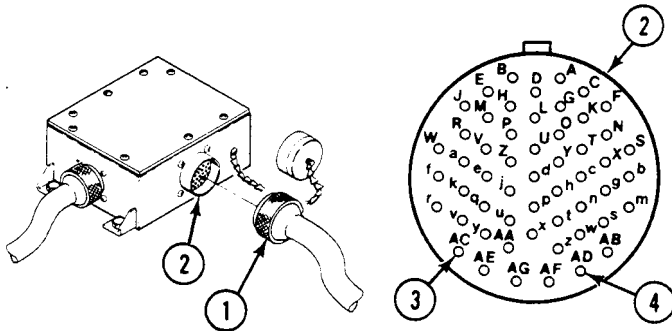
1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

CY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins AC (3) and AD (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

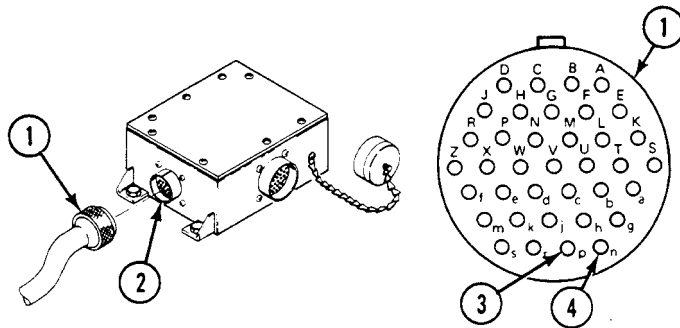
CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins p (3) and n (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

C2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

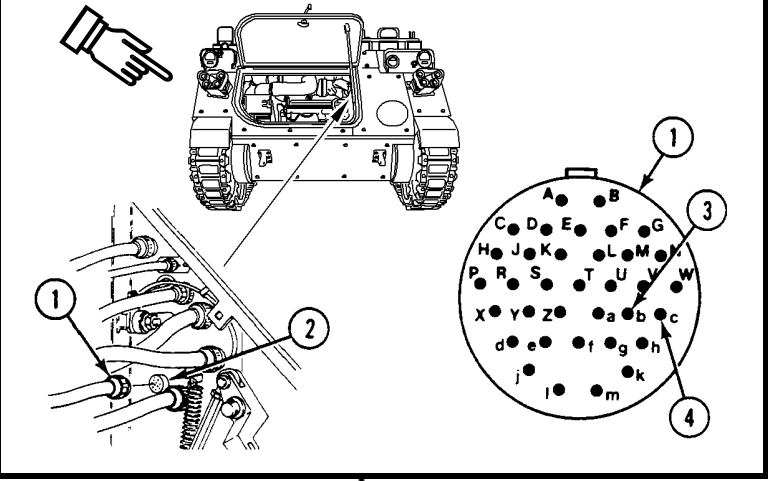
YES

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

C3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins b (3) and c (4).
3. Does MSD read 0 ohms?



NO

C3YN

1. Repair/replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

C4Y

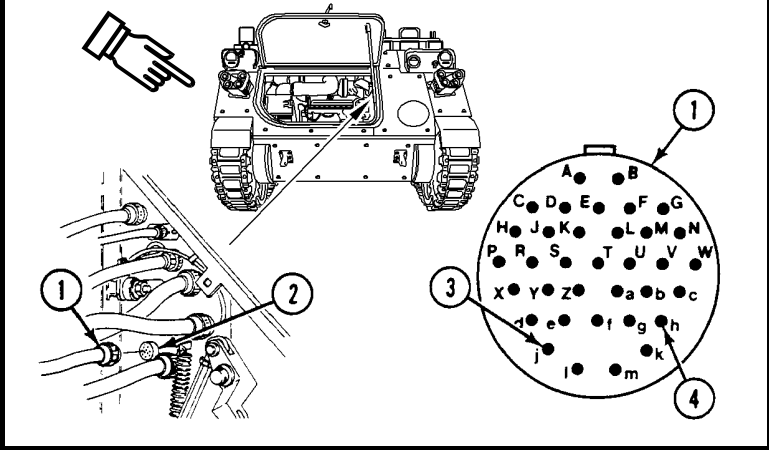
1. Repair/replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

DY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins j (3) and h (4).
3. Does MSD read infinity?



NO

DYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

D2Y

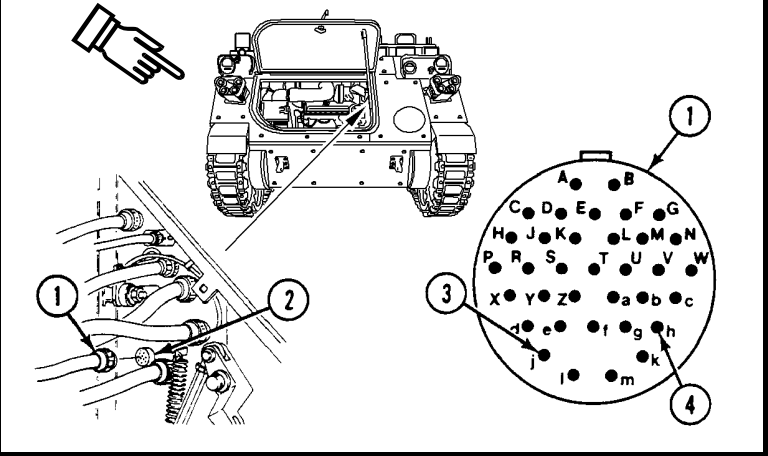
1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 25 FUEL RETURN PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0144 00

EY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins j (3) and h (4).
3. Does MSD read 0 ohms?



NO

EYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

E2Y

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC TROUBLESHOOTING

0145 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

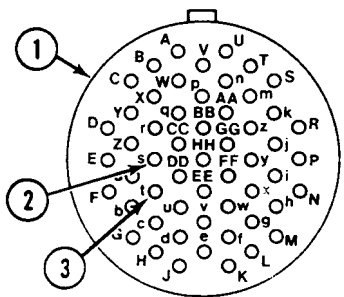
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)

Personnel Required

Mechanic

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Measure resistance between W1 P1 (1), pins s (2) and t (3).
5. Does MSD read 0 ohms?



NO

TN

GO TO 2Y (PAGE 0145 00-2)

YES

**MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

0145 00

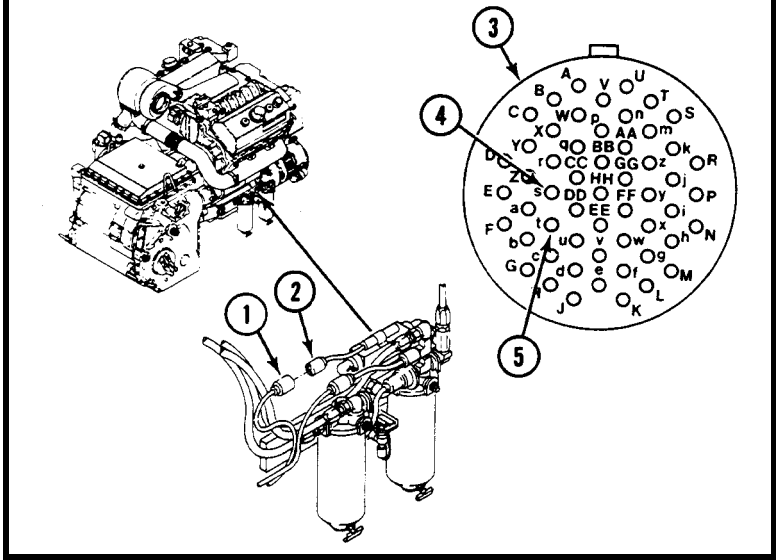
Y

1. Remove harness 12354672 plug P7 (1) from FUEL FILTER PRESSURE DROP switch (2).
2. Measure resistance between plug W1 P1 (3), pins s (4) and t (5).
3. Does MSD read more than 0 ohms?

NO

YN

GO TO CY (PAGE 0145 00-5)



YES

2Y

1. Set up Test 92. See TM 9-6625-2301-14&P.
2. Repeat Item Y (page 0145 00-2) Step 2.
3. Does MSD read more than 52k ohms?

NO

2YN

GO TO BY (PAGE 0145 00-3)

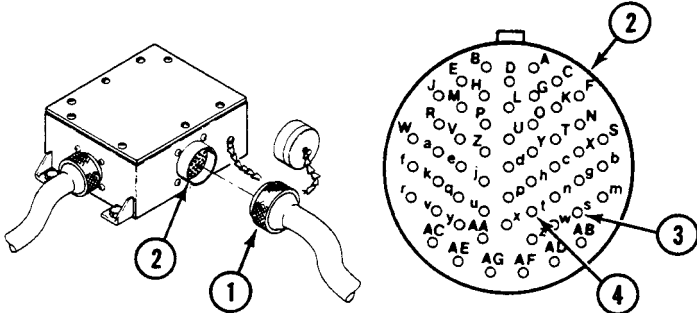
YES

**MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

0145 00

3Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins s (3) and t (4).
3. Does MSD read more than 52k ohms?



NO

3YN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

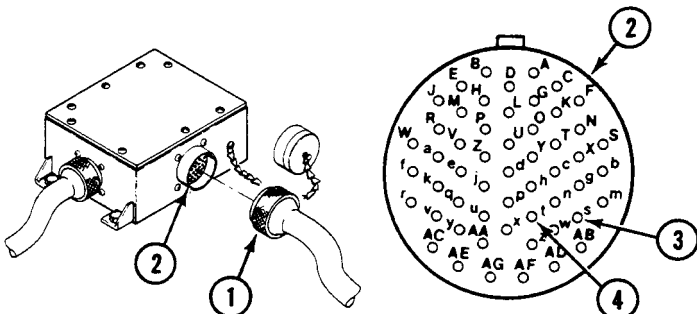
YES

4Y

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure continuity between MSD/ICE distribution box jack J2 (2), pins s (3) and t (4).
3. Does MSD read more than 0 ohms?



NO

BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

**MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

0145 00

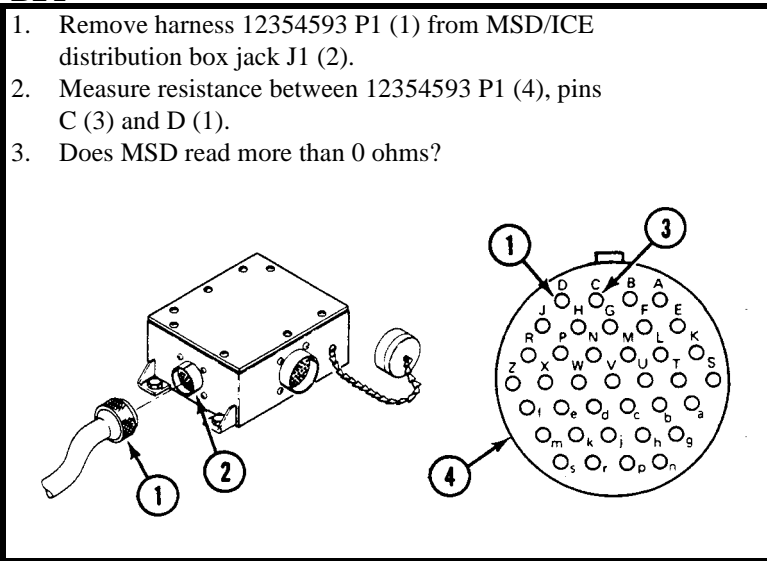
B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (4), pins C (3) and D (1).
3. Does MSD read more than 0 ohms?

NO

B2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.



YES

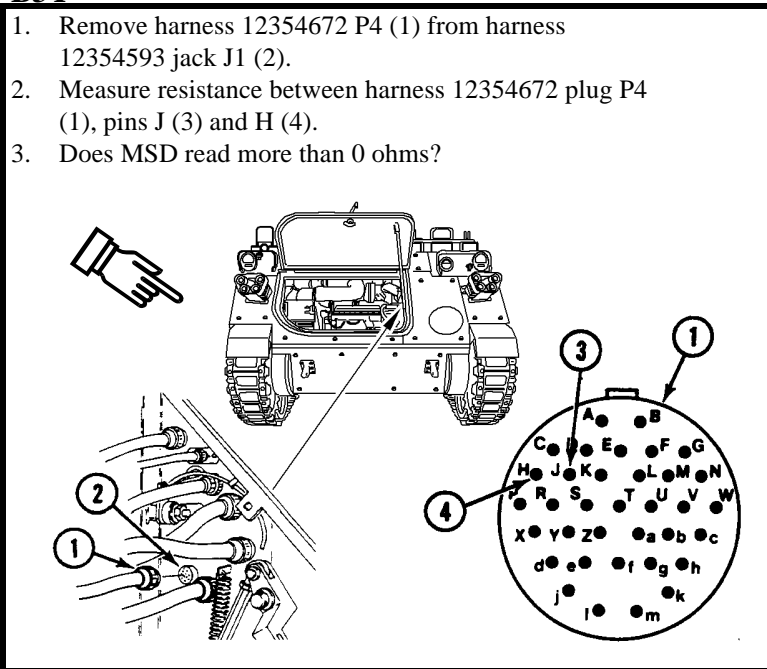
B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins J (3) and H (4).
3. Does MSD read more than 0 ohms?

NO

B3YN

1. Replace FUEL FILTER PRESSURE DROP switch (WP 0328 00).
2. Verify no faults found.



YES

**MSD/ICE TEST 26 FUEL FILTER PRESSURE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

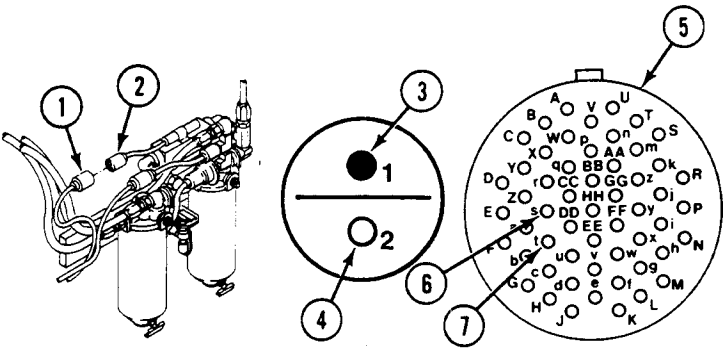
0145 00

B4Y

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

CY

1. Remove harness 12354672 plug P7 (1) from FUEL FILTER PRESSURE DROP switch (2).
2. Short harness 12354672 plug P7 (1), pins 1 (3) to 2 (4).
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Measure resistance between W1 P1 (5), pins s (6) and t (7).
5. Does MSD read 0 ohms?



CYN
GO TO BY (PAGE 0145 00-3)

YES

C2Y

1. Replace FUEL FILTER PRESSURE DROP switch (WP 0328 00).
2. Verify no faults found.

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE
DIAGNOSTIC TROUBLESHOOTING**

0146 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

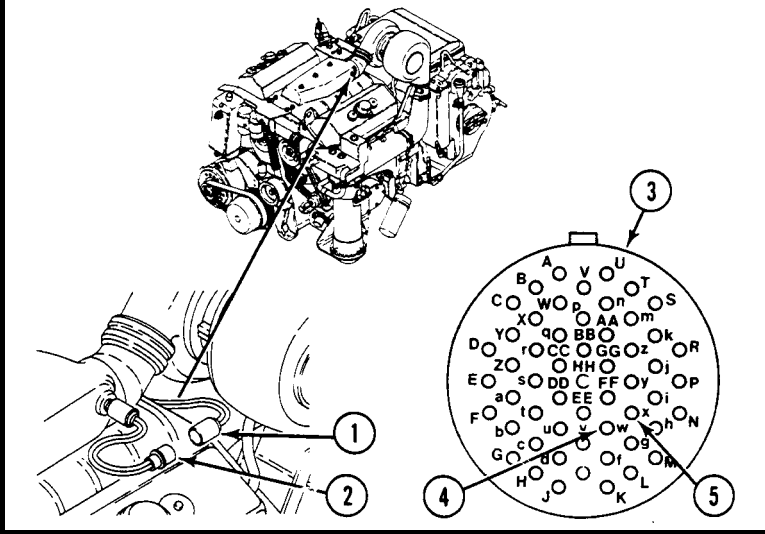
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Remove harness 12345672 plug P3 (1) from turbo pressure tachometer jack (2).
5. Measure resistance between W1 P1 (3), pins w (4) and x (5).
6. Does MSD read infinity?



YES



NO

TN

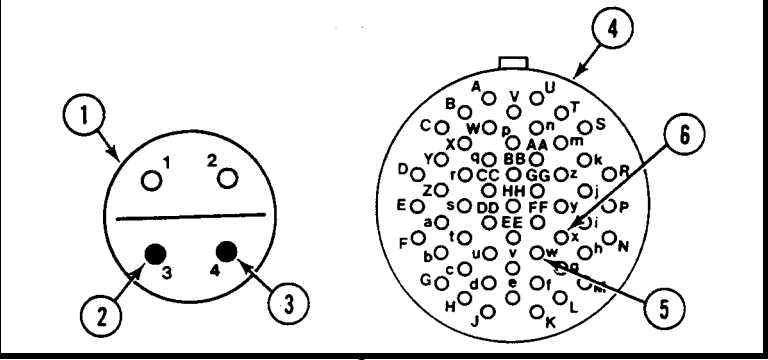
GO TO BY (PAGE 0146 00-5)

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

Y

1. Install jumper wire between harness 12354672 plug P3 (1), pins 3 (2) and 4 (3).
2. Measure resistance between plug W1 P1 (4), pins w (5) and x (6).
3. Does MSD read 0 ohms?

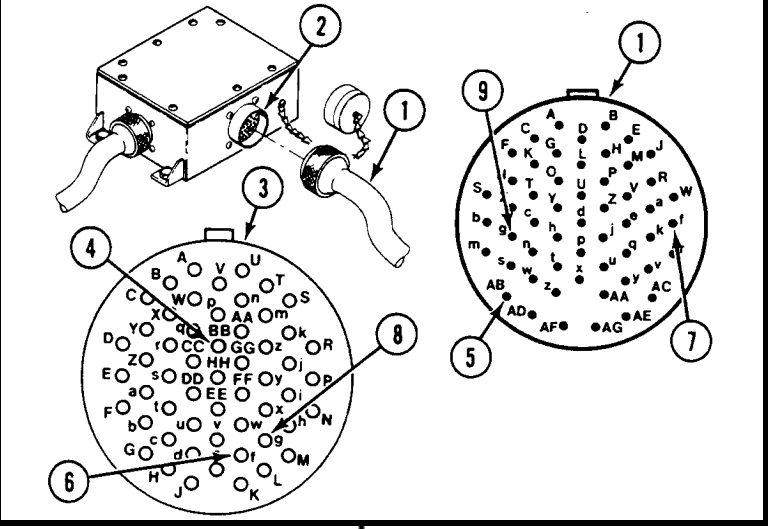


NO → **YN** GO TO CY (PAGE 0146 00-7)

YES

2Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between the following plug pins:
 W1 P1 (3), pin BB (4) to W1 P2 (1), pin AB (5)
 W1 P1 (3), pin f (6) to W1 P2 (1), pin f (7)
 W1 P1 (3), pin g (8) to W1 P2 (1), pin g (9)
3. Does MSD read 0 ohms for each measurement?



NO → **2YN**
 1. Faulty W1 cable. Beyond unit maintenance repair.
 2. Notify supervisor.

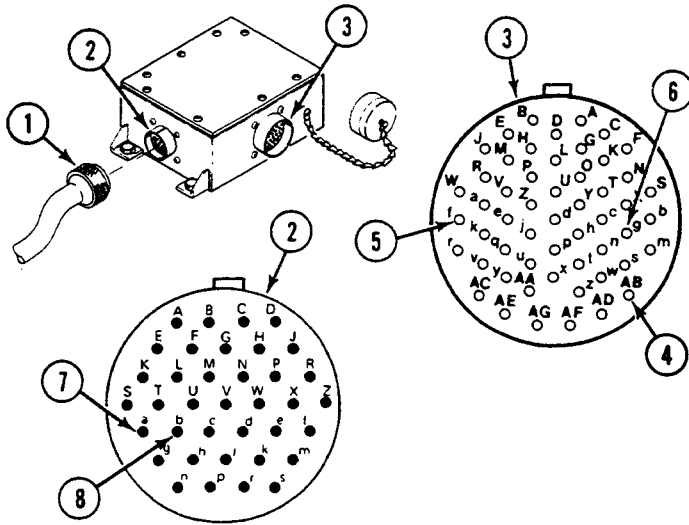
YES

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

3Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (1).
2. Set up Test 92. See TM 9-6625-2301-14&P.
3. Measure resistance between MSD/ICE distribution box jack J2 (1), pin AB (1) and the following jack pins:
 - J2 (3), pin f (5)
 - J2 (3), pin g (6)
 - J1 (2), pin a (7)
 - J1 (2), pin b (8)
4. Does MSD read between 3600 and 4400 ohms for each measurement?



3YN

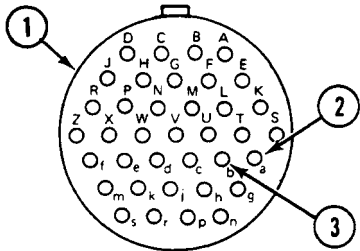
1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

4Y

1. Set up Test 91. See TM 9-6625-2301-14&P.
2. Measure resistance between harness 12354593 plug P1 (1), pins a (2) and b (3).
3. Does MSD read infinity?

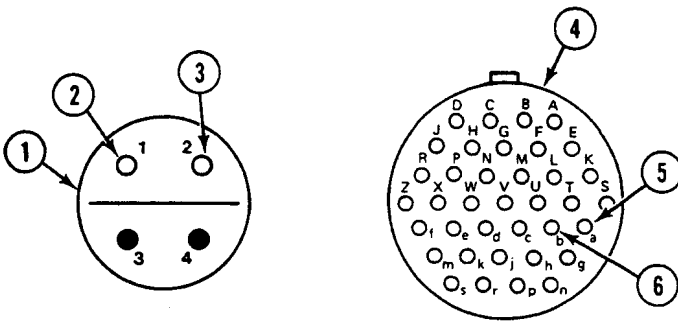


NO → **4YN**
GO TO DY (PAGE 0146 00-9)

YES

5Y

1. Move jumper wire on harness 12354672 plug P3 (1) from pins 3 and 4 to pins 1 (2) and 2 (3).
2. Measure resistance between harness 12354593 plug P1 (4), pins a (5) and b (6).
3. Does MSD read 0 ohms?



NO → **5YN**
GO TO EY (PAGE 0146 00-10)

YES

6Y

1. Has turbo outlet pressure tachometer been replaced?

NO → **6YN**
1. Replace turbo outlet pressure tachometer (WP 0326 00).
2. Verify no faults found.

YES

MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC TROUBLESHOOTING — Continued

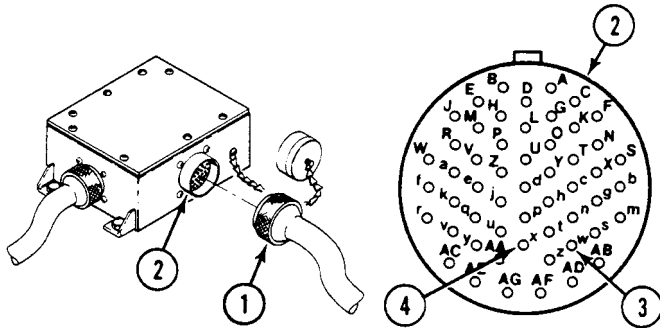
0146 00

7Y

1. Faulty MSD.
2. Notify supervisor.

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins w (3) and x (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

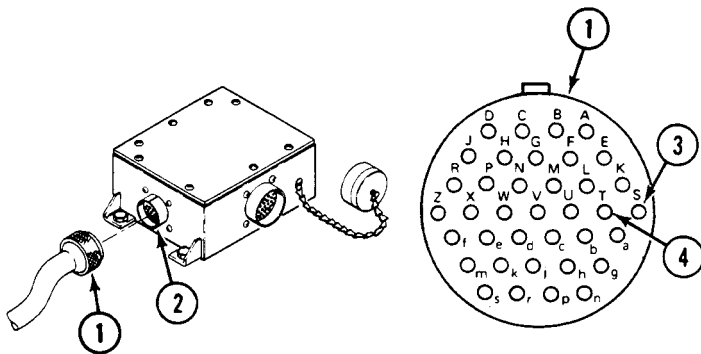
BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins S (3) and T (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

B2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

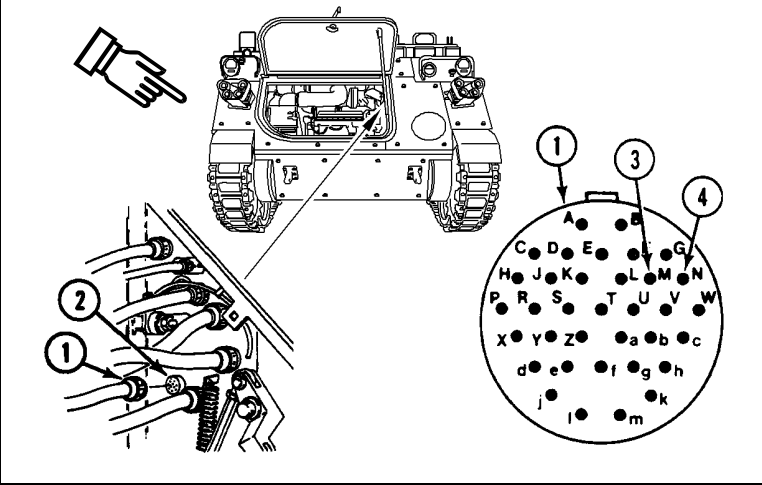
YES

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins M (3) and N (4).
3. Does MSD read infinity?



NO

B3YN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

B4Y

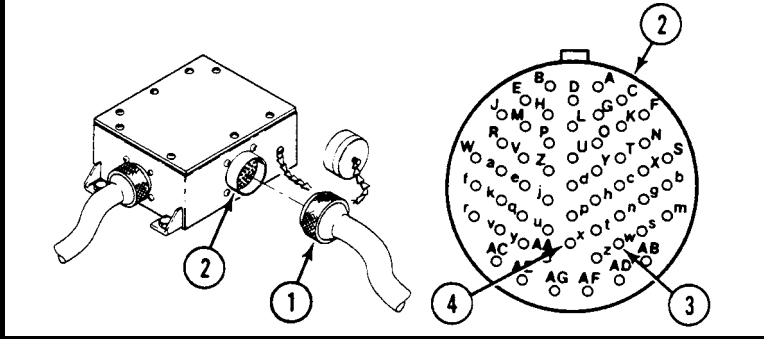
1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

CY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins w (3) and x (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

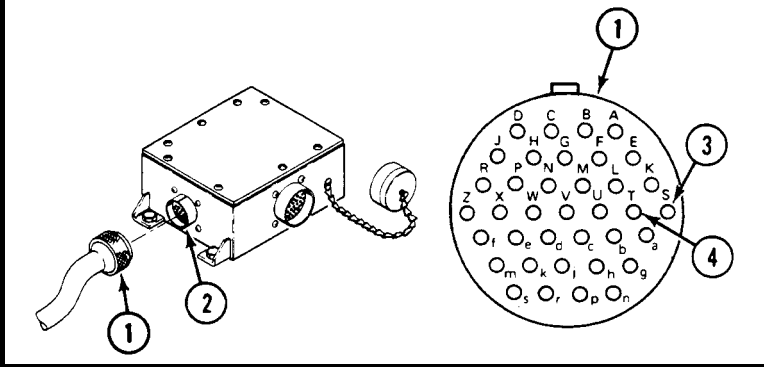
CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins S (3) and T (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

C2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

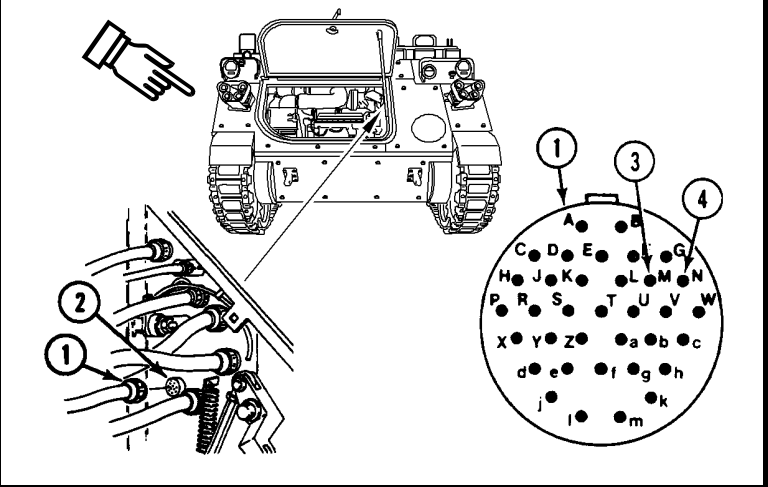
YES

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

C3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins M (3) and N (4).
3. Does MSD read 0 ohms?



NO

C3YN

1. Repair/replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

C4Y

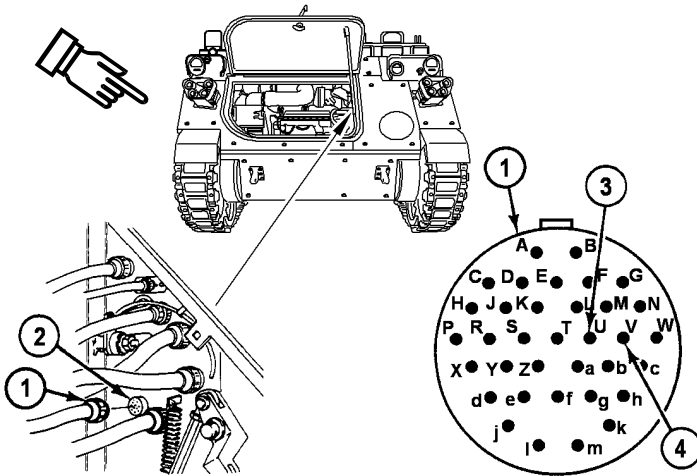
1. Repair/replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

DY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins U (3) and V (4).
3. Does MSD read infinity?



NO

DYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

D2Y

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 30 TURBOCHARGER OUTLET PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0146 00

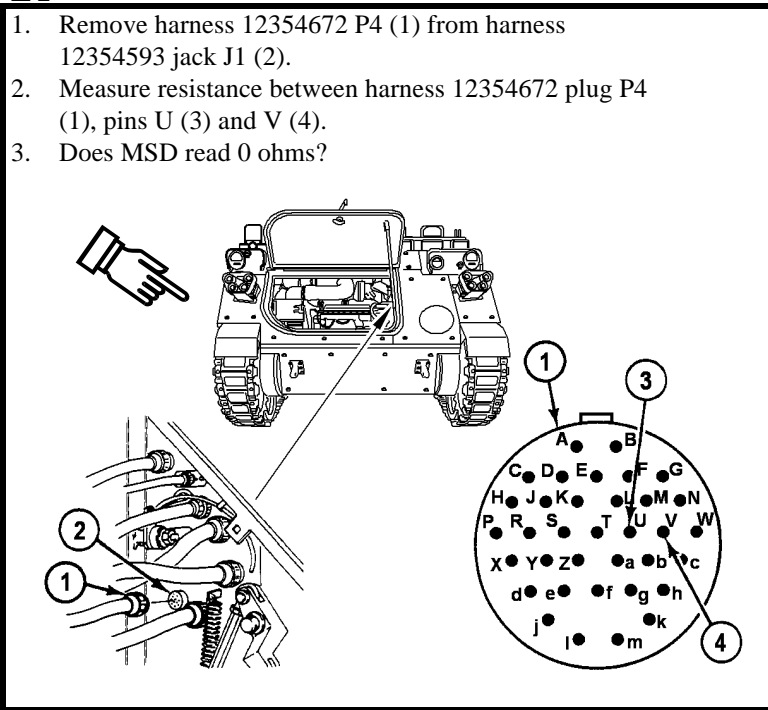
EY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins U (3) and V (4).
3. Does MSD read 0 ohms?

NO

EYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.



YES

E2Y

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC TROUBLESHOOTING

0147 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

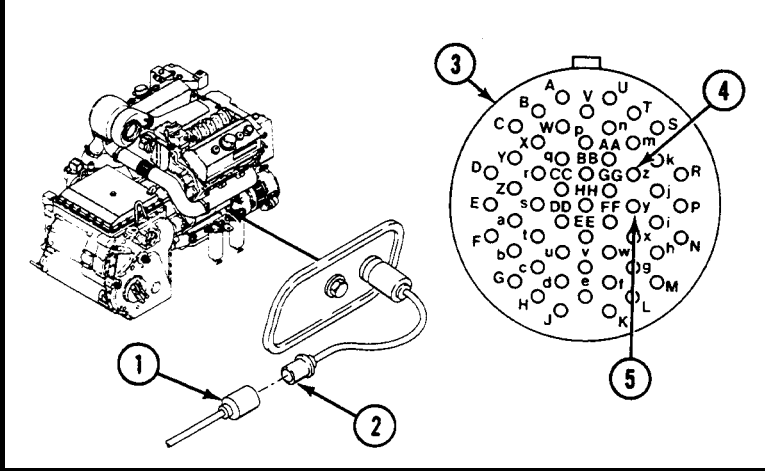
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)
- Power plant rear access panels removed (WP 0439 00)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove plug W1 P1 from MSD jack J1. See TM 9-6625-2301-14&P.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Remove harness 12345672 plug P9 (1) from air box pressure tachometer (2).
5. Measure resistance between W1 P1 (3), pins z (4) and y (5).
6. Does MSD read infinity?



YES



NO

TN

GO TO BY (PAGE 0147 00-5)

MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued

0147 00

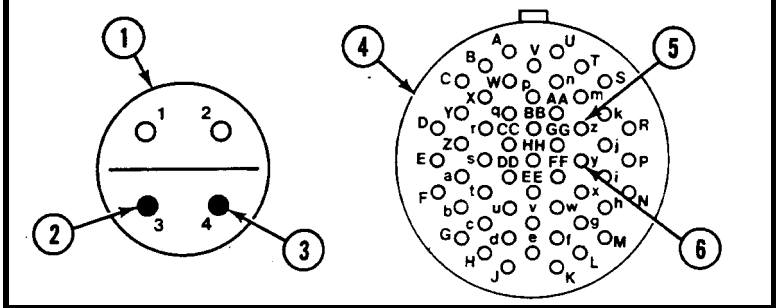
Y

1. Install jumper wire between harness 12354672 plug P9 (1), pins 3 (2) and 4 (3).
2. Measure resistance between plug W1 P1 (4), pins z (5) and y (6).
3. Does MSD read 0 ohms?

NO

YN

GO TO CY (PAGE 0147 00-7)



YES

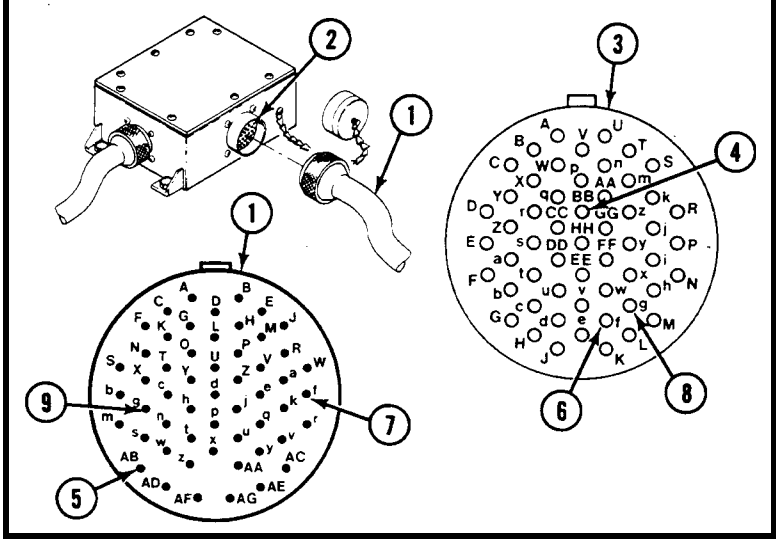
2Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between the following plug pins:
 W1 P1 (3), pin BB (4) to W1 P2 (1), pin AB (5)
 W1 P1 (3), pin f (6) to W1 P2 (1), pin f (7)
 W1 P1 (3), pin g (8) to W1 P2 (1), pin g (9)
3. Does MSD read 0 ohms for each measurement?

NO

2YN

1. Faulty W1 cable. Beyond unit maintenance repair.
 2. Notify supervisor.



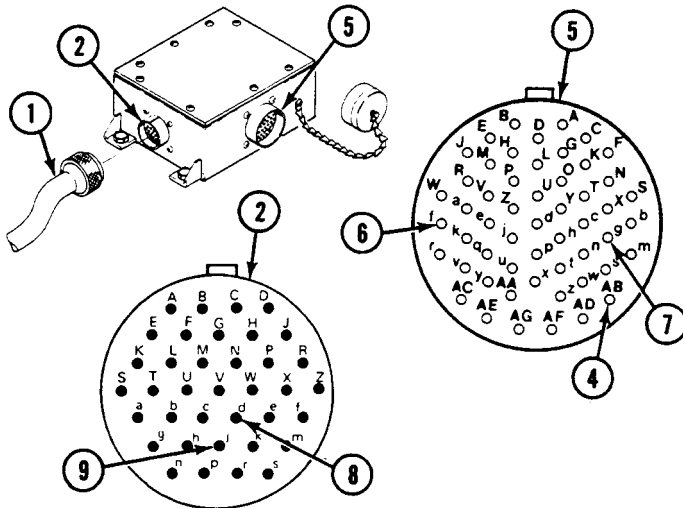
YES

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

3Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Set up Test 92. See TM 9-6625-2301-14&P.
3. Measure resistance between MSD/ICE distribution box jack J2 (3), pin AB (4) and the following jack pins:
 J2 (5), pin f (6)
 J2 (5), pin g (7)
 J1 (2), pins d (8)
 J1 (2), pins i (9)
4. Does MSD read between 3600 and 4400 ohms for each measurement?



YES

NO

3YN

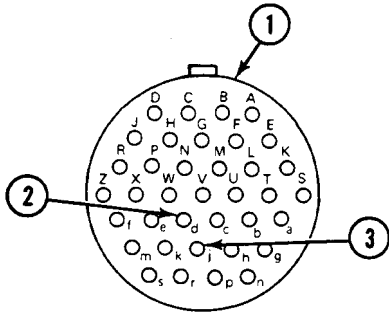
1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

4Y

1. Set up Test 91. See TM 9-6625-2301-14&P.
2. Measure resistance between harness 12354593 plug P1 (1), pins d (2) and j (3).
3. Does MSD read infinity?



NO

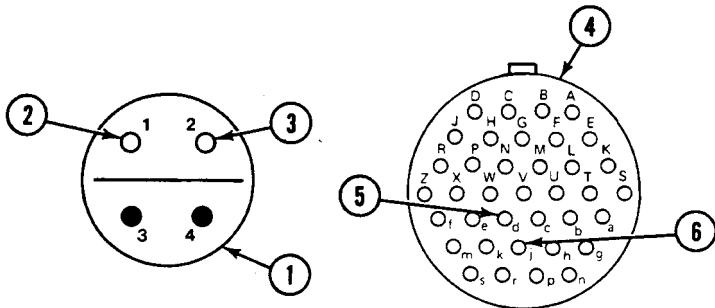
4YN

GO TO DY (PAGE 0147 00-9)

YES

5Y

1. Move jumper wire on harness 12354672 plug P9 (1) from pins 3 and 4 to pins 1 (2) and 2 (3).
2. Measure resistance between harness 12354593 plug P1 (4), pins d (5) and j (6).
3. Does MSD read 0 ohms?



NO

5YN

GO TO EY (PAGE 0147 00-10)

YES

6Y

1. Has air box pressure tachometer been replaced?

NO

6YN

1. Replace air box pressure tachometer (WP 0327 00).
2. Verify no faults found.

YES

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

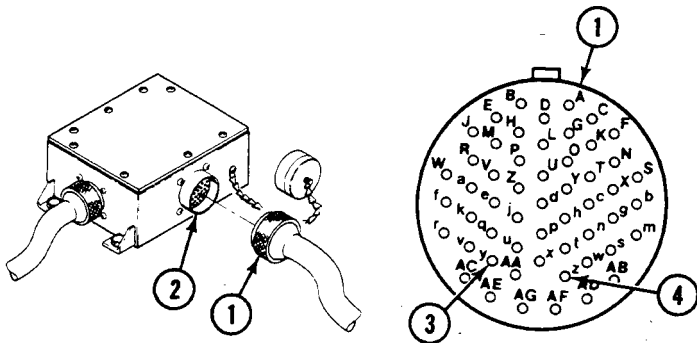
0147 00

7Y

1. Faulty MSD.
2. Notify supervisor.

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins y (3) and z (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

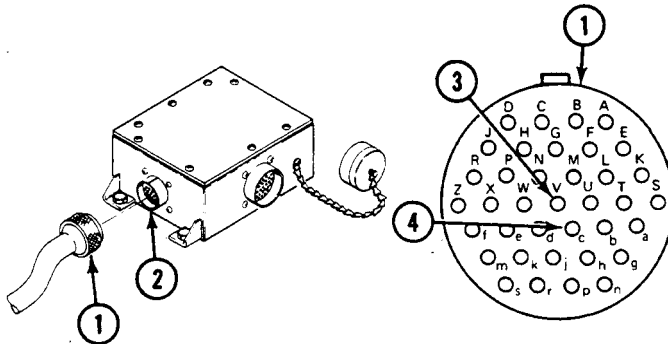
BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins V (3) and c (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

B2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

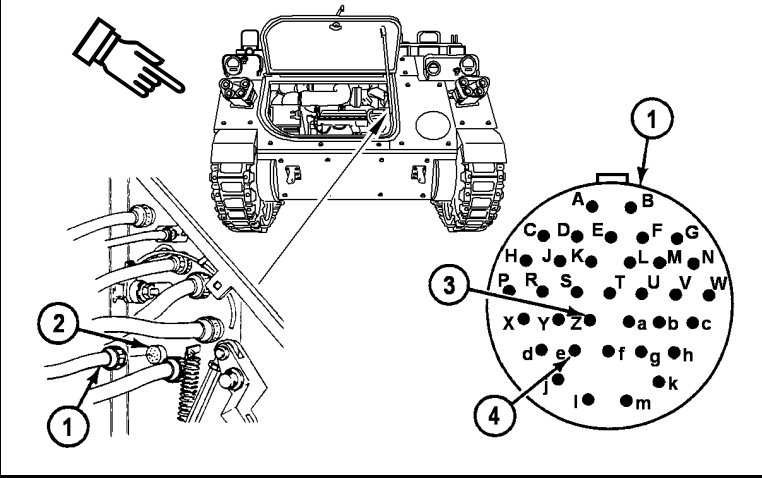
YES

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins Z (3) and e (4).
3. Does MSD read infinity?



NO

B3YN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

B4Y

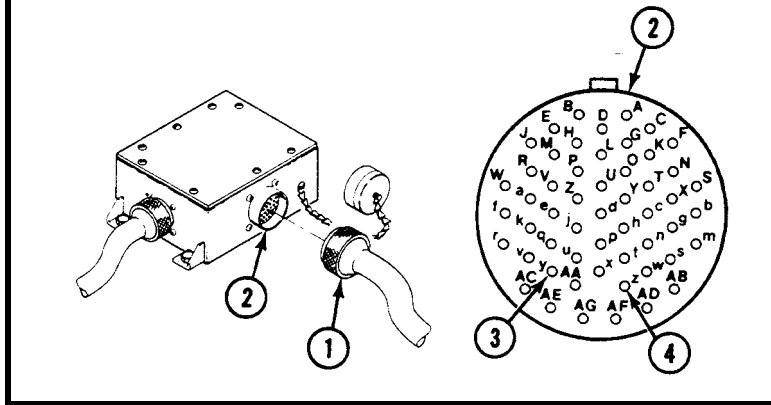
1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

CY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins y (3) and z (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

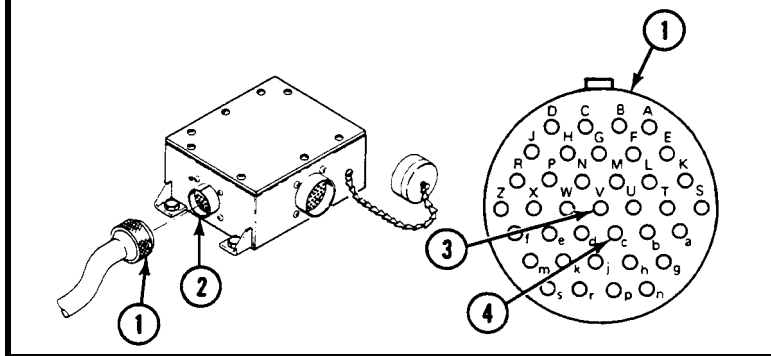
CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins V (3) and c (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

C2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

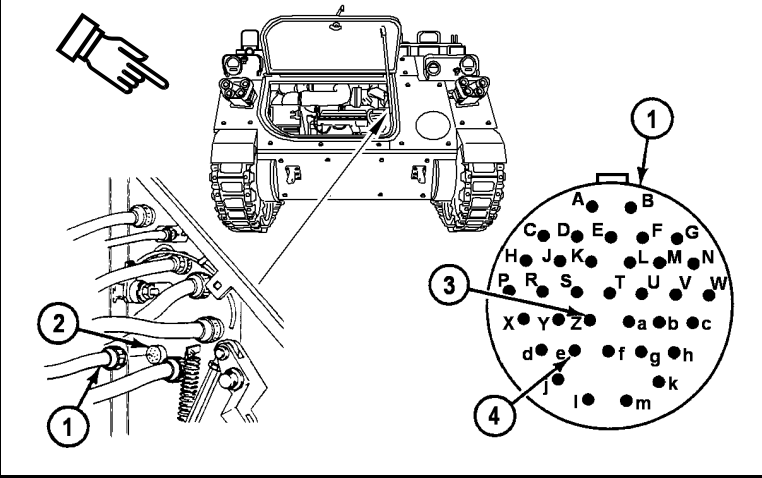
YES

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

C3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins Z (3) and e (4).
3. Does MSD read 0 ohms?



NO

C3YN

1. Repair/replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

C4Y

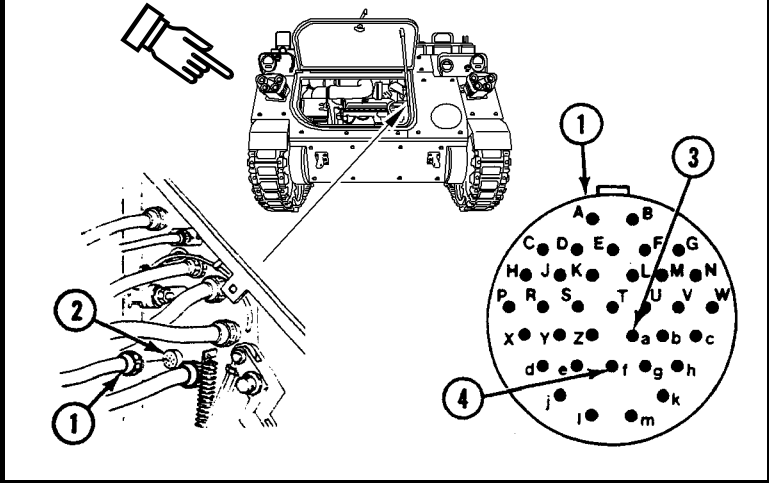
1. Repair/replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

DY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins a (3) and f (4).
3. Does MSD read infinity?



NO

DYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

D2Y

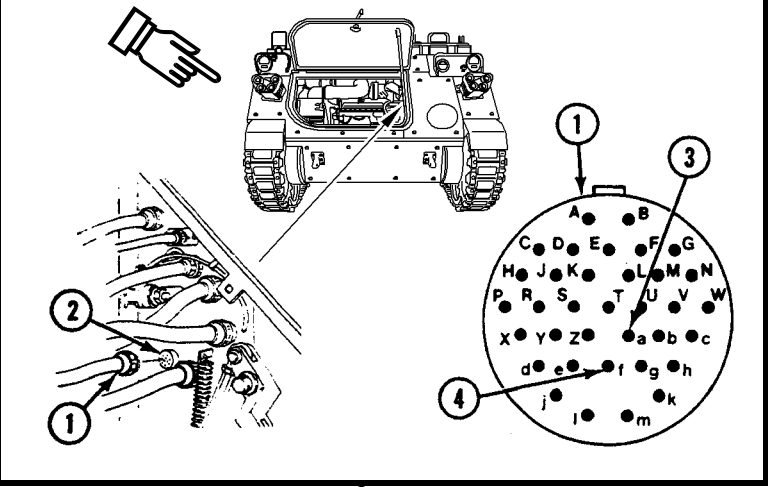
1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 32 AIR BOX PRESSURE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0147 00

EY

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins a (3) and f (4).
3. Does MSD read 0 ohms?



NO

EYN

1. Replace wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

YES

E2Y

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 68 STARTER MOTOR VOLTAGE DIAGNOSTIC TROUBLESHOOTING

0148 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P
 TM 9-2350-277-10

Tools and Special Tools

Electrical Connector Pliers (WP 0926 00, Item 31)
 MSD/ICE Test Set (WP 0926 00, Item 61)
 Jumper Wire

Equipment Condition

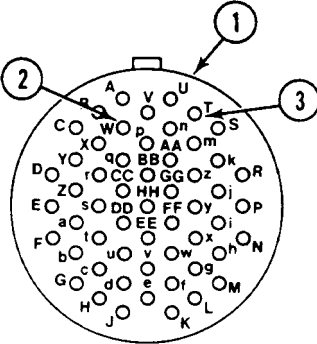
Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 Power plant access door open (TM 9-2350-277-10)
 Driver's power plant access panel removed (WP 0441 00)

Personnel Required

Mechanic

T

1. Remove plug W1 P1 from MSD jack J1.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Turn MASTER SWITCH ON. See TM 9-2350-277-10.
4. Set up Test 89 TM 9-6625-2301-14&P.
5. Measure voltage between W1 P1 (1) pins W (2) and T (3) with START switch pressed.
6. Does MSD read 0 volts?



NO

TN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

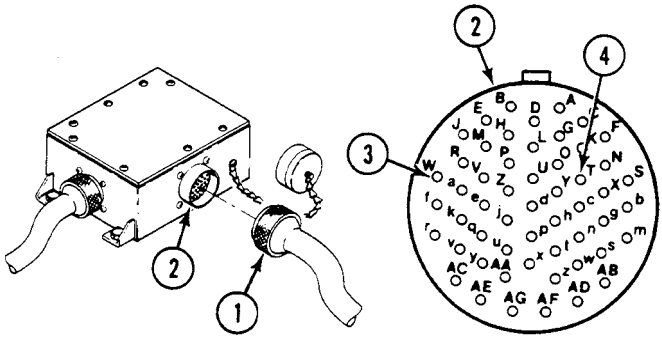
YES

**MSD/ICE TEST 68 STARTER MOTOR VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0148 00

Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure voltage between MSD/ICE distribution box jack J2 (2), pins W (3) and T (4).
3. Press START button for 2 to 4 seconds.
4. Does MSD read 0 volts?



NO

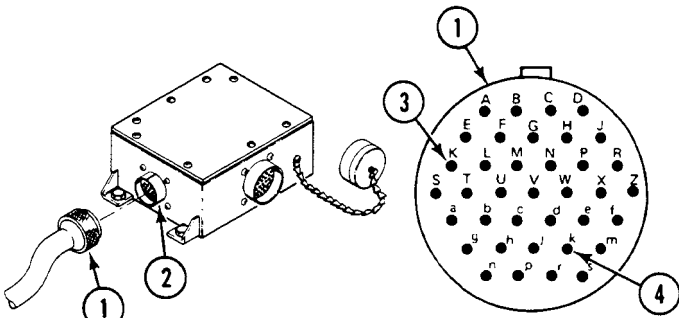
YN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure voltage between 12354593 P1 (1), pins K (+) (3) and k (-) (4).
3. Press START button for 2 to 4 seconds.
4. Does MSD read 0 volts?



NO

2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

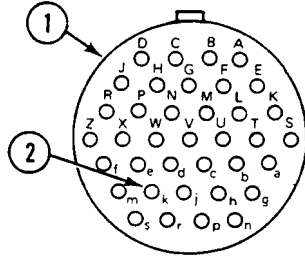
YES

**MSD/ICE TEST 68 STARTER MOTOR VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0148 00

3Y

1. Turn MASTER SWITCH OFF. See TM 9-2350-277-10.
2. Set up Test 91. See TM 9-6625-2301-14&P.
3. Measure resistance between harness 12354593 plug P1 (1), pin k (2) and ground.
4. Does MSD read more than 0 ohms?



NO

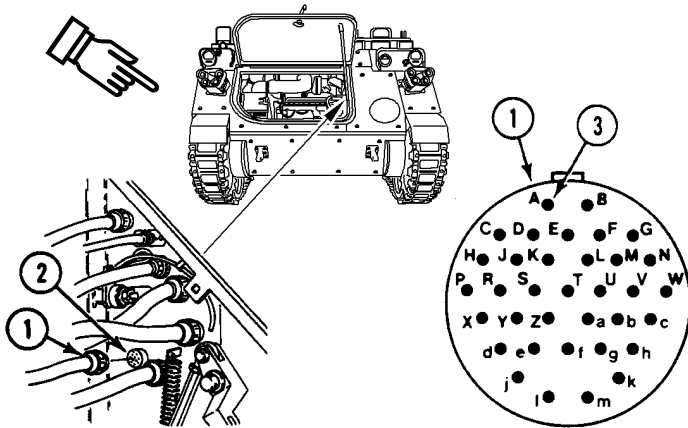
3YN

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

4Y

1. Set up Test 89. See TM 9-6625-2301-14&P.
2. Remove harness 12354672 plug P4 (1) from harness 12354593 jack J1 (2).
3. Turn MASTER SWITCH ON. See TM 9-2350-277-10.
4. Measure voltage between harness 12354672 plug P4 (1), pin A (3) and ground.
5. Press START button for 2 to 4 seconds.
6. Does MSD read 0 volts?



NO

4YN

1. Repair/replace wiring harness 12354593 circuit 799 (WP 0382 00 or WP 0882 00).
2. Verify no faults found.

YES

**MSD/ICE TEST 68 STARTER MOTOR VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0148 00

5Y

1. Repair/replace wiring harness 12354672 circuit 776 (WP 0382 00 or WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP
DIAGNOSTIC TROUBLESHOOTING**

0149 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)

Personnel Required

Mechanic

T

1. Remove plug W1P1 from MSD jack J1.
2. Hook up MSD to carrier batteries. See TM 9-6625-2301-14&P.
3. Set up Test 89. See TM 9-6625-2301-14&P.
4. Measure resistance between W1P1 (1), pin W (2) and harness 12354593 circuit 779 terminal E4 (3) on battery negative terminal (4).
5. Measure resistance between W1P1 (1), pin M (5) and harness 12354672 circuit 773 terminal E2 (6) on starter ground stud (7).
6. Does MSD read more than one ohm either time?

TN

1. Faulty MSD.
2. Notify supervisor.

NO

YES

MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued

0149 00

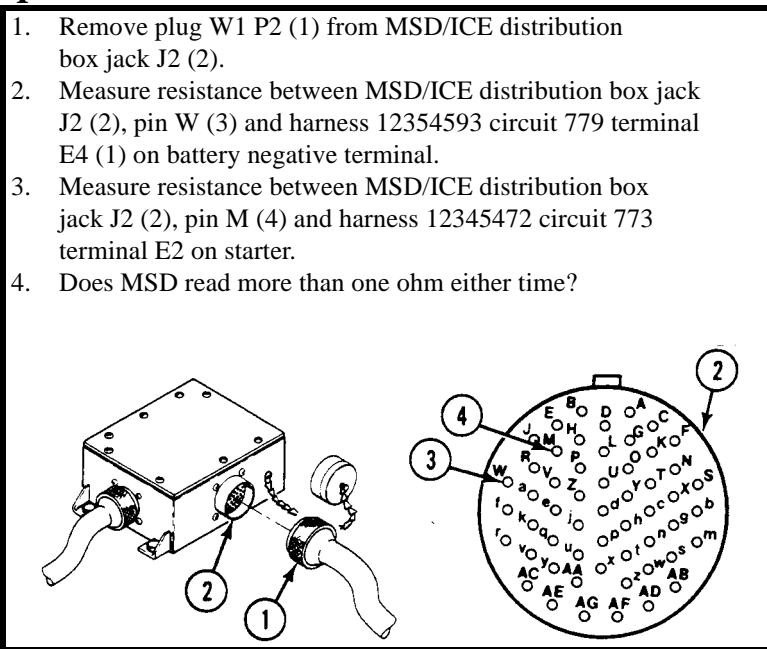
Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pin W (3) and harness 12354593 circuit 779 terminal E4 (1) on battery negative terminal.
3. Measure resistance between MSD/ICE distribution box jack J2 (2), pin M (4) and harness 12345472 circuit 773 terminal E2 on starter.
4. Does MSD read more than one ohm either time?

NO

YN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.



YES

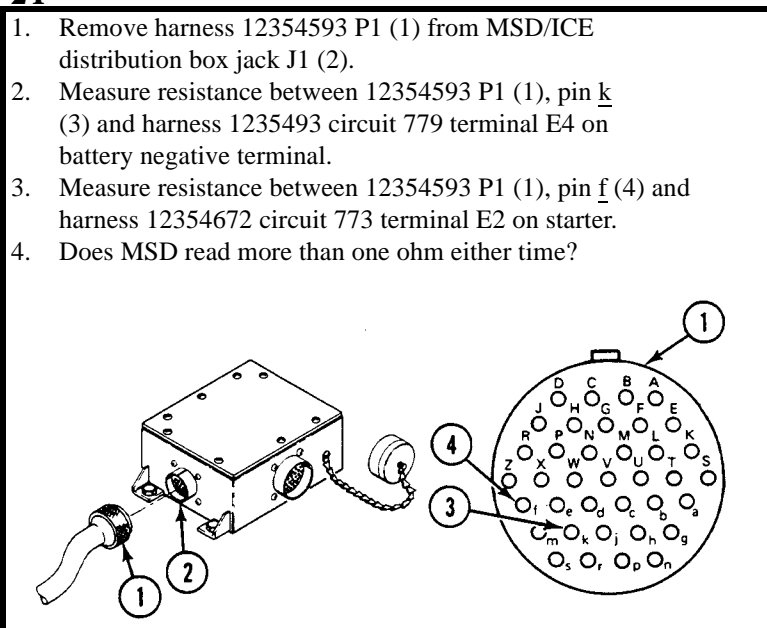
2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pin k (3) and harness 1235493 circuit 779 terminal E4 on battery negative terminal.
3. Measure resistance between 12354593 P1 (1), pin f (4) and harness 12354672 circuit 773 terminal E2 on starter.
4. Does MSD read more than one ohm either time?

NO

2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.



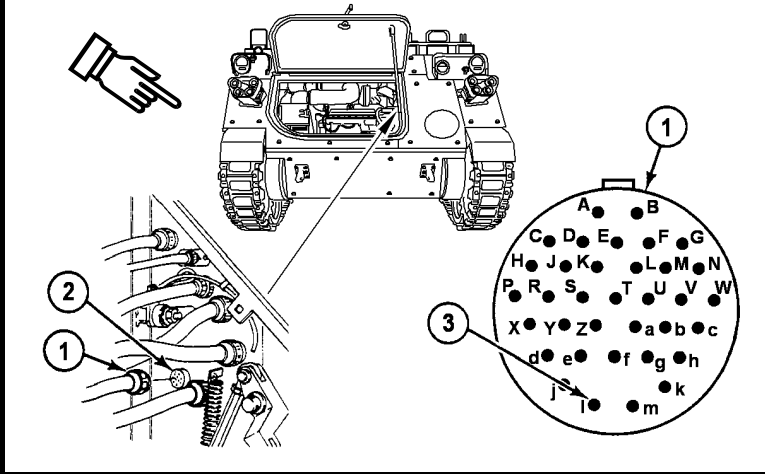
YES

**MSD/ICE TEST 69 STARTER NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

0149 00

3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pin l (3) and starter ground stud (4).
3. Does MSD read more than 1 ohms?



NO

3YN

1. Replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

4Y

1. Replace MSD/ICE engine wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE DIAGNOSTIC TROUBLESHOOTING

0150 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P
 TM 9-2350-277-10

Tools and Special Tools

Electrical Connector Pliers (WP 0926 00, Item 31)
 MSD/ICE Test Set (WP 0926 00, Item 61)
 Jumper Wire

Equipment Condition

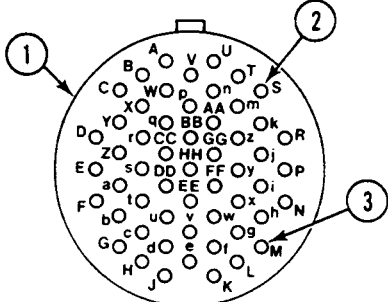
Engine stopped (TM 9-2350-277-10)
 Carrier blocked (TM 9-2350-277-10)
 Power plant access door open (TM 9-2350-277-10)
 Driver's power plant access panel removed (WP 0441 00)

Personnel Required

Mechanic

T

1. Remove plug W1 P1 from MSD jack J1.
2. Hook up MSD to carrier batteries. See TM 9-6625-2301-14&P.
3. Set up Test 89. See TM 9-6625-2301-14&P.
4. Turn MASTER SWITCH ON. See TM 9-2350-277-10.
5. Measure voltage between W1 P1 (1), pins S (+) (2) and M (-) (3).
6. Does MSD read 0 volts?



YES

NO

TN

1. Faulty MSD.
2. Notify supervisor.

**MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0150 00

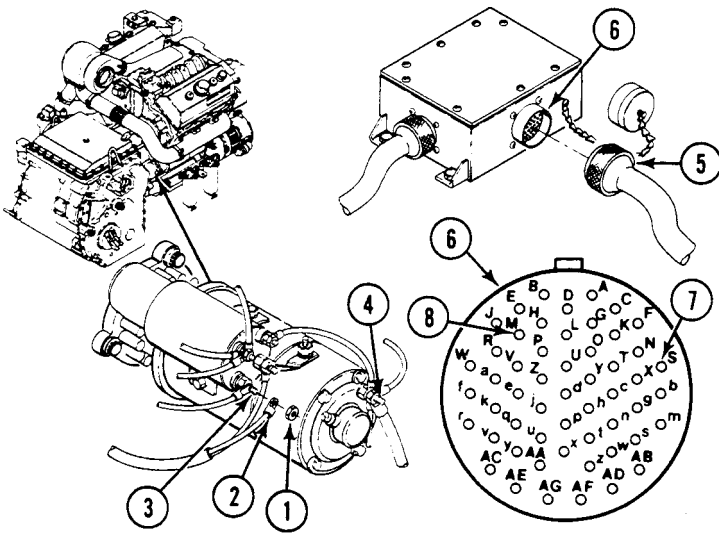
Y

1. Turn MASTER SWITCH OFF. See TM 9-2350-277-10.
2. Set up Test 91. See TM 9-6625-2301-14&P.
3. Remove nut (1) and harness 12354672 circuit 775 terminal end E3 (2) from solenoid positive terminal (3).
4. Ground terminal E3 to starter ground stud (4).
5. Remove plug W1 P2 (5) from MSD/ICE distribution box jack J2 (6).
6. Measure resistance between MSD/ICE distribution box jack J2 (6), pins S (7) and M (8).
7. Does MSD read more than 0 ohms?

NO

YN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.



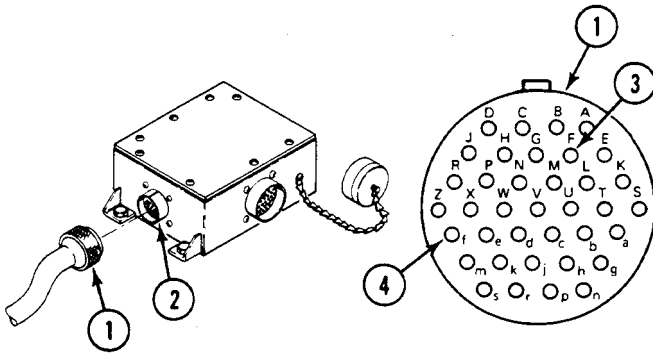
YES

**MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0150 00

2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins F (3) and f (4).
3. Does MSD read more than 0 ohms?



NO

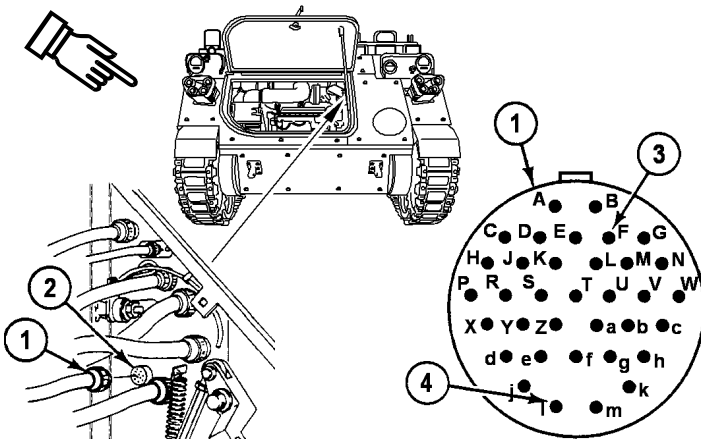
2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

YES

3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins F (3) and l (4).
3. Does MSD read more than 0 ohms?



NO

3YN

1. Replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

**MSD/ICE TEST 70 STARTER SOLENOID VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0150 00

4Y

1. Replace MSD/ICE engine wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE DIAGNOSTIC TROUBLESHOOTING

0151 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

Electrical Connector Pliers (WP 0926 00, Item 31)
MSD/ICE Test Set (WP 0926 00, Item 61)

Equipment Condition

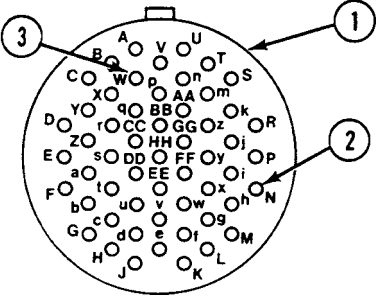
Engine stopped (TM 9-2350-277-10)
Carrier blocked (TM 9-2350-277-10)
Power plant access door open (TM 9-2350-277-10)
Driver's power plant access panel removed (WP 0441 00)

Personnel Required

Mechanic
Helper (H)

T

1. Remove plug W1 P1 from MSD jack J1.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 89. See TM 9-6625-2301-14&P.
4. Measure voltage between W1 P1 (1), pins N (+) (2) and W (-) (3).
5. Does MSD read 0 volts?



YES



NO

TN

1. Faulty MSD.
2. Notify supervisor.

**MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0151 00

Y

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure voltage between MSD/ICE distribution box jack J2 (2), pins N (3) and W (4).
3. Does MSD read 0 volts?

NO

YN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins B (+) (3) and k (-) (4).
3. Does MSD read 0 volts?

NO

2YN

1. Replace wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

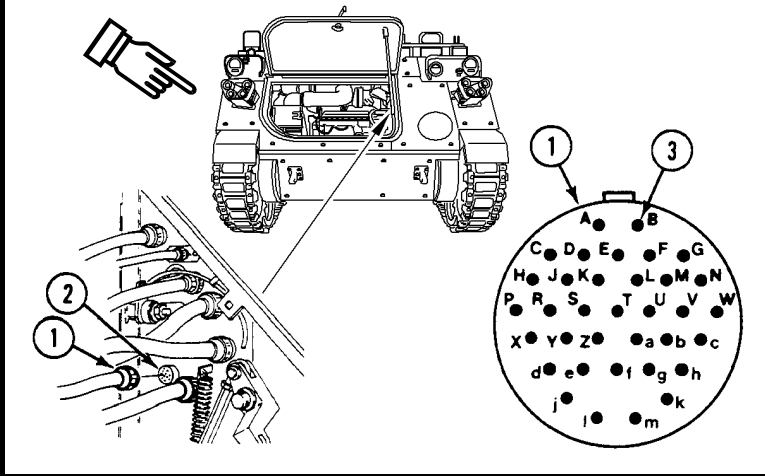
YES

**MSD/ICE TEST 82 GENERATOR OUTPUT VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0151 00

3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure voltage between harness 12354672 plug P4 (1), pin B (3) and ground.
3. Does MSD read 0 volts?



NO

3YN

1. Replace MSD/ICE crew wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

4Y

1. Replace MSD/ICE engine wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC TROUBLESHOOTING

0152 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

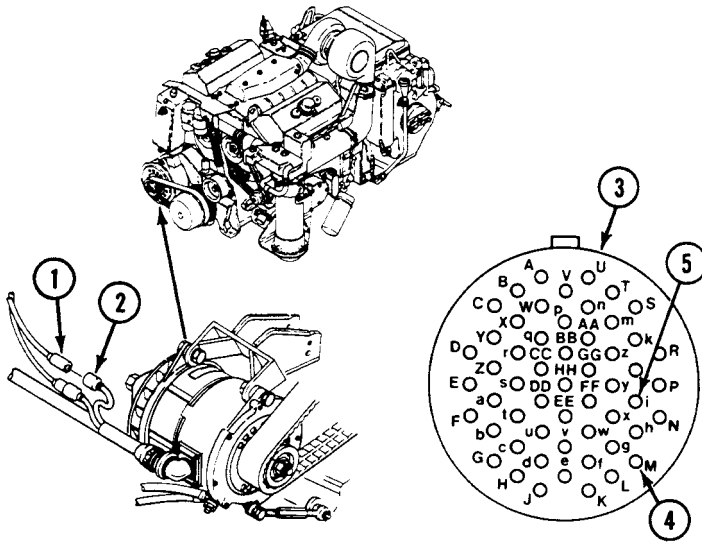
- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)

Personnel Required

- Mechanic
- Helper (H)

T

1. Remove plug W1 P1 from MSD jack J1.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Remove harness 12354672 circuit 785 plug P6 (1) from harness 12349873 (2).
5. Measure resistance between W1 P1 (3), pins M (4) and i (5).
6. Does MSD read infinity?



NO

TN

GO TO BY (PAGE 0152 00-3)

YES

**MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0152 00

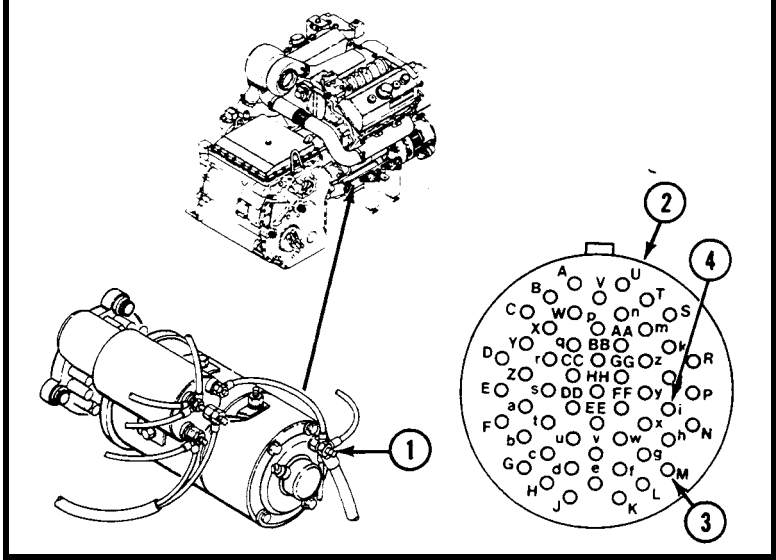
Y

1. Install jumper wire between harness 12354672 circuit 785 plug P6 and starter ground post (1).
2. Measure resistance between plug W1 P1 (2), pins M (3) and i (4).
3. Does MSD read 0 ohms?

NO

YN

GO TO CY (PAGE 0152 00-5)



YES

2Y

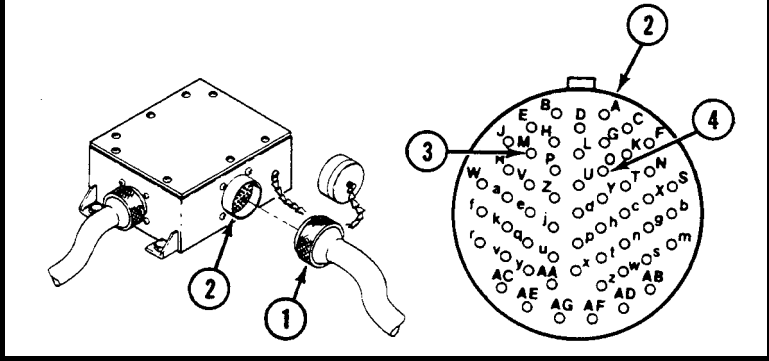
1. Faulty MSD.
2. Notify supervisor.

**MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0152 00

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MD/ICE distribution box jack J2 (2), pins M (3) and O (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

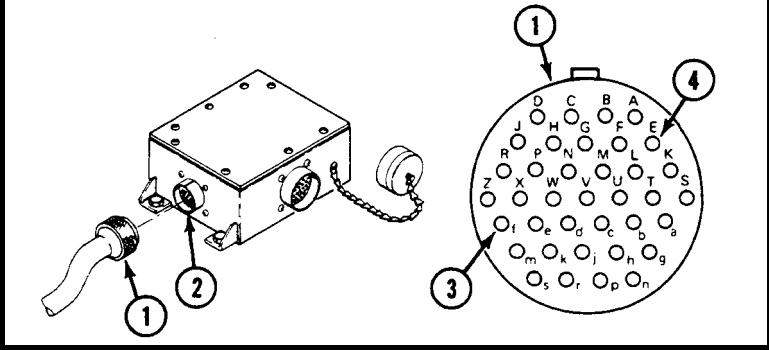
BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins f (3) and E (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

B2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

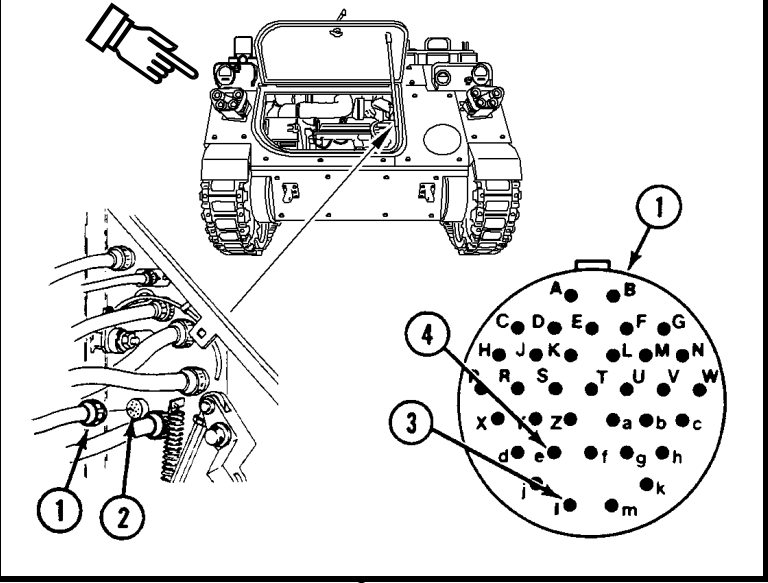
YES

**MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0152 00

B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure voltage between harness 12354672 plug P4 (1), pins I (3) and E (4). MSD should read infinity.
3. Does MSD indicate a fault?



NO

B3YN

1. Replace MSD/ICE crew wiring harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

B4Y

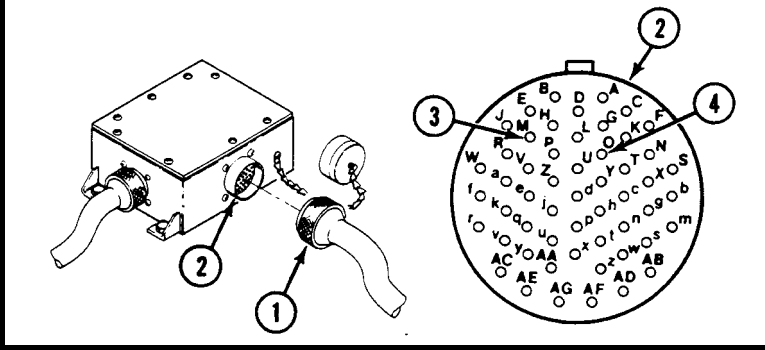
1. Replace MSD/ICE engine wiring harness 12354672 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0152 00

CY

1. Remove W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins M (3) and O (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

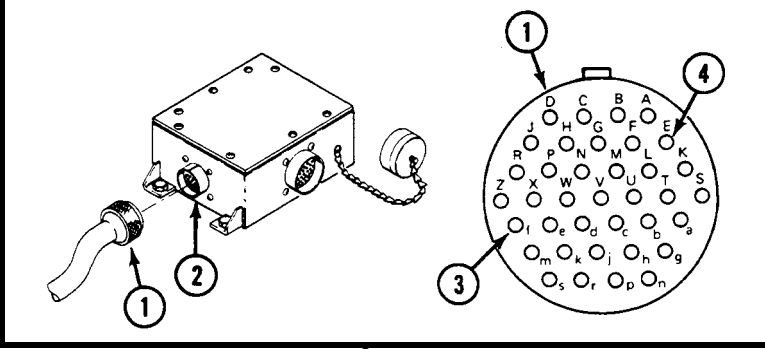
CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins f (3) and E (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

C2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

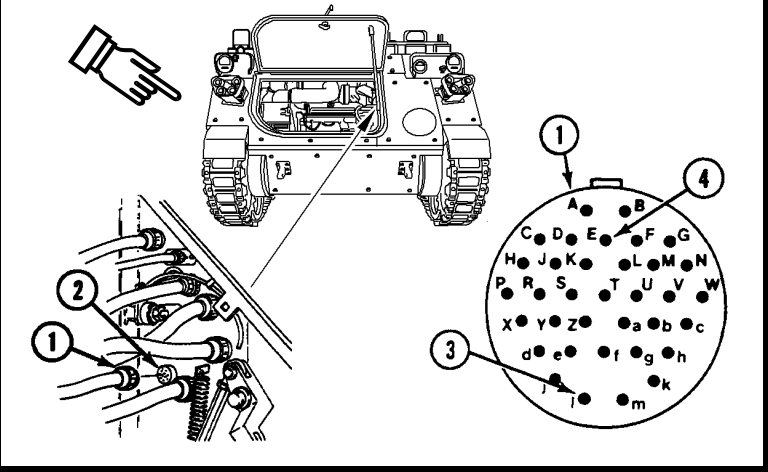
YES

**MSD/ICE TEST 83 GENERATOR FIELD VOLTAGE DIAGNOSTIC
TROUBLESHOOTING — Continued**

0152 00

C3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure voltage between harness 12354672 plug P4 (1), pins I (3) and E (4). MSD should read 0 ohms.
3. Does MSD indicate a fault?



NO

C3YN

1. Replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

C4Y

1. Replace harness 12354672 (WP 0882 00).
2. Verify no faults found.

**MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE
DROP DIAGNOSTIC TROUBLESHOOTING**

0153 00

INITIAL SETUP:

Maintenance Level

Unit

References

TM 9-6625-2301-14&P

Tools and Special Tools

- Electrical Connector Pliers (WP 0926 00, Item 31)
- MSD/ICE Test Set (WP 0926 00, Item 61)
- Jumper Wire

Equipment Condition

- Engine stopped (TM 9-2350-277-10)
- Carrier blocked (TM 9-2350-277-10)
- Power plant access door open (TM 9-2350-277-10)
- Driver's power plant access panel removed (WP 0441 00)

Materials/Parts

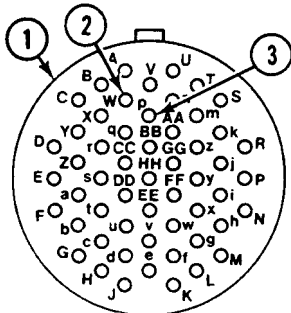
- Insulation tape (WP 0928 00, Item 39)

Personnel Required

Mechanic

T

1. Remove plug W1 P1 from MSD jack J1.
2. Hook up MSD to vehicle batteries. See TM 9-6625-2301-14&P.
3. Set up Test 91. See TM 9-6625-2301-14&P.
4. Measure resistance between W1 P1 (1), pins W (2) and P (3).
5. Does MSD read less than one ohm?



YES

TN

GO TO BY (PAGE 0153 00-3)

NO

MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued

0153 00

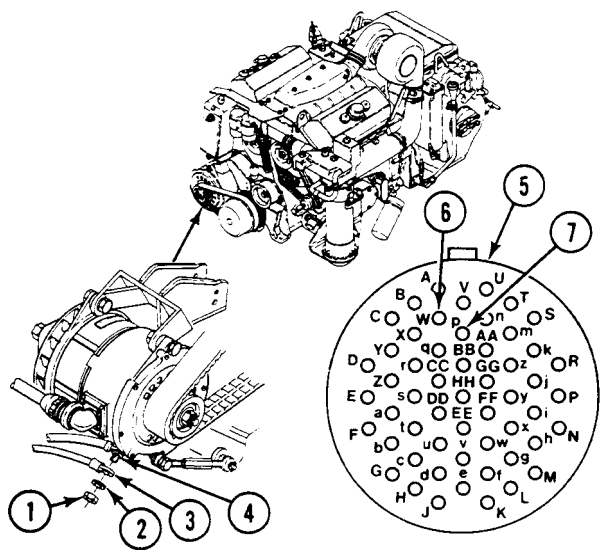
Y

1. Remove nut (1), lockwasher (2), and harness 12354672 circuit 771 terminal end E2 (3) from generator ground stud (4).
2. Wrap harness 12354672 circuit 771 terminal end E2 (3) with tape.
3. Measure resistance between plug W1 P1 (5), pins W (6) and P (7).
4. Does MSD read infinity?

NO

YN

GO TO CY (PAGE 0153 00-4)



YES

2Y

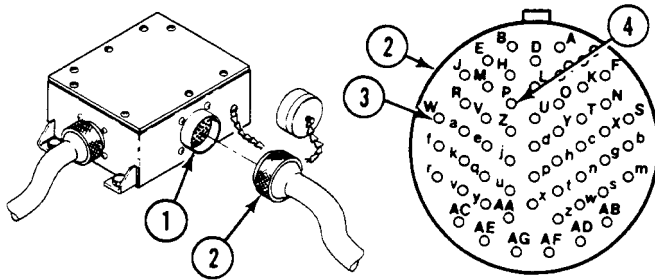
1. Faulty MSD.
2. Notify supervisor.

MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued

0153 00

BY

1. Remove plug W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins W (3) and P (4).
3. Does MSD read more than one ohm?



NO

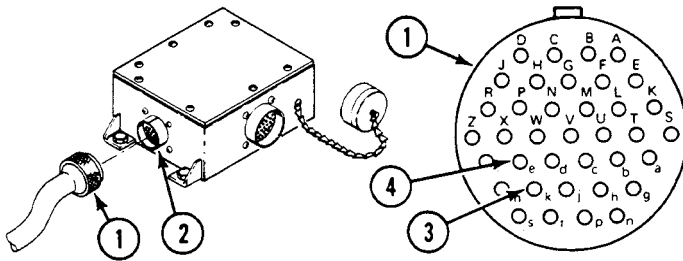
BYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

YES

B2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins k (3) and e (4). Use MSD.
3. Does MSD read more than one ohm?



NO

B2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

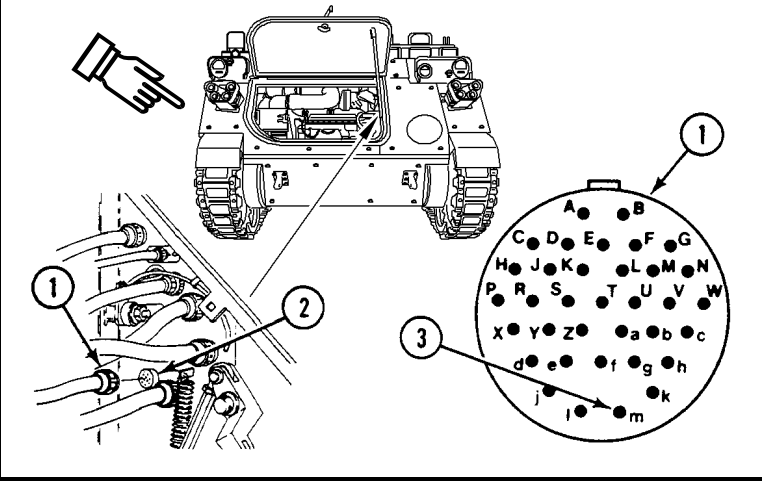
YES

**MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

0153 00

B3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pins m (3) and ground.
3. Does MSD read more than one ohm?



NO

B3YN

1. Replace harness 12354693 (WP 0882 00).
2. Verify no faults found.

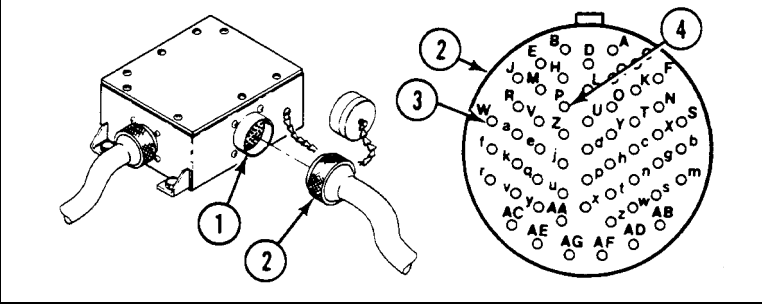
YES

B4Y

1. Replace harness 12354672 (WP 0882 00).
2. Verify no faults found.

CY

1. Remove W1 P2 (1) from MSD/ICE distribution box jack J2 (2).
2. Measure resistance between MSD/ICE distribution box jack J2 (2), pins W (3) and P (4).
3. Does MSD fail to read infinity?



NO

CYN

1. Faulty W1 cable. Beyond unit maintenance repair.
2. Notify supervisor.

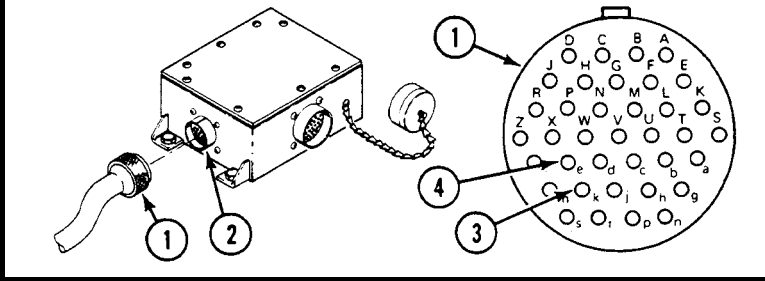
YES

MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued

0153 00

C2Y

1. Remove harness 12354593 P1 (1) from MSD/ICE distribution box jack J1 (2).
2. Measure resistance between 12354593 P1 (1), pins k (3) and k (4).
3. Does MSD fail to read infinity?



NO

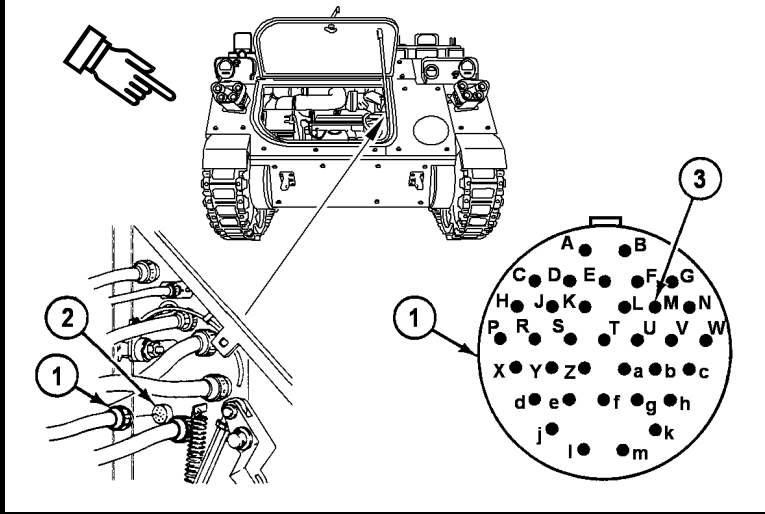
C2YN

1. Replace MSD/ICE distribution box (WP 0874 00, WP 0875 00, or WP 0877 00).
2. Verify no faults found.

YES

C3Y

1. Remove harness 12354672 P4 (1) from harness 12354593 jack J1 (2).
2. Measure resistance between harness 12354672 plug P4 (1), pin m (3) and ground.
3. Does MSD read other than infinity?



NO

C3YN

1. Replace harness 12354593 (WP 0882 00).
2. Verify no faults found.

YES

**MSD/ICE TEST 84 GENERATOR NEGATIVE CABLE VOLTAGE DROP DIAGNOSTIC
TROUBLESHOOTING — Continued**

0153 00

C4Y

1. Replace harness 12354672 (WP 0882 00).
2. Verify no faults found.

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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 25-30; the proponent agency is ODISC4.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE Date you filled out this form.
TO: (Forward to proponent of publication or form) (Include ZIP Code) U.S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LC-LMP/TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: (Activity and location) (Include ZIP Code) Your mailing address	
PART I – ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER TM 9-2350-277-20-1						DATE 02 Jan 01	Title Unit Maintenance Manual for M113A3 FOV
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
	0014 00-2					STEP b. The screws (4) on Bracket (2) must be torqued. Please add torque information.	
	0023 00-34			5 (SH15)		There are four clamps (144) on wiring harness (217), Not Three as shown. Please correct.	
							
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE Your Name				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		Signature Your Signature	

TO: (Forward direct to addressee listed in publication) U. S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630	FROM: (Activity and location) (Include ZIP Code) Your address	DATE Date you filled out this form
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PAGE NO.	COLM NO.	LINE NO.	NATIONAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
SAMPLE								

PART III – REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)

TYPED NAME, GRADE OR TITLE Your Name	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE Your Signature
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RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE
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ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO. *	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Provide exact wording of recommended changes, if possible).	
<i>*Reference to line numbers within the paragraph or subparagraph.</i>							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TO: (Forward direct to addressee listed in publication) U. S. Army TACOM Life Cycle Management Command ATTN: AMSTA-LC-LMPP/TECH PUBS 1 Rock Island Arsenal, Rock Island, IL 61299-7630	FROM: (Activity and location) (Include ZIP Code)	DATE
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PART II – REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS

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PART III – REMARKS *(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)*

--

TYPED NAME, GRADE OR TITLE	TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION	SIGNATURE
----------------------------	--	-----------

By Order of the Secretary of the Army:

Official:



JOEL B. HUDSON

*Administrative Assistant to the
Secretary of the Army*

9913202

ERIC K. SHINSEKI
*General, United States Army
Chief of Staff*

DISTRIBUTION: To be distributed in accordance with the initial distribution requirements for IDN: 371205, requirements for TM 9-2350-277-20-1.

THE METRIC SYSTEM AND EQUIVALENTS

LINEAR MEASURE

1 Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches
 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
 1 Kilometer = 1000 Meters = 0.621 Miles

WEIGHTS

1 Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces
 1 Kilogram = 1000 Grams = 2.2 Lb.
 1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces
 1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches
 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
 1 Sq. Kilometer = 1,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches
 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

$5/9 (^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212^o Fahrenheit is equivalent to 100^o Celsius
 90^o Fahrenheit is equivalent to 32.2^o Celsius
 32^o Fahrenheit is equivalent to 0^o Celsius
 $(9/5 \times ^{\circ}\text{C}) + 32 = ^{\circ}\text{F}$

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0.405
Cubic Feet	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29.573
Pints	Liters	0.473
Quarts	Liters	0.946
Gallons	Liters	3.785
Ounces	Grams	28.349
Pounds	Kilograms	0.454
Short Tons	Metric Tons	0.907
Pound-Feet	Newton-Meters	1.356
Pounds per Square Inch	Kilopascals	6.895
Miles per Gallon	Kilometers per Liter	0.425
Miles per Hour	Kilometers per Hour	1.609

TO CHANGE	TO	MULTIPLY BY
Centimeters	Inches	0.394
Meters	Feet	3.280
Meters	Yards	1.094
Kilometers	Miles	0.621
Square Centimeters	Square Inches	0.155
Square Meters	Square Feet	10.764
Square Meters	Square Yards	1.196
Square Kilometers	Square Miles	0.386
Square Hectometers	Acres	2.471
Cubic Meters	Cubic Feet	35.315
Cubic Meters	Cubic Yards	1.308
Milliliters	Fluid Ounces	0.034
Liters	Pints	2.113
Liters	Quarts	1.057
Liters	Gallons	0.264
Grams	Ounces	0.035
Kilograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pound-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
Kilometers per Liter	Miles per Gallon	2.354
Kilometers per Hour	Miles per Hour	0.621

