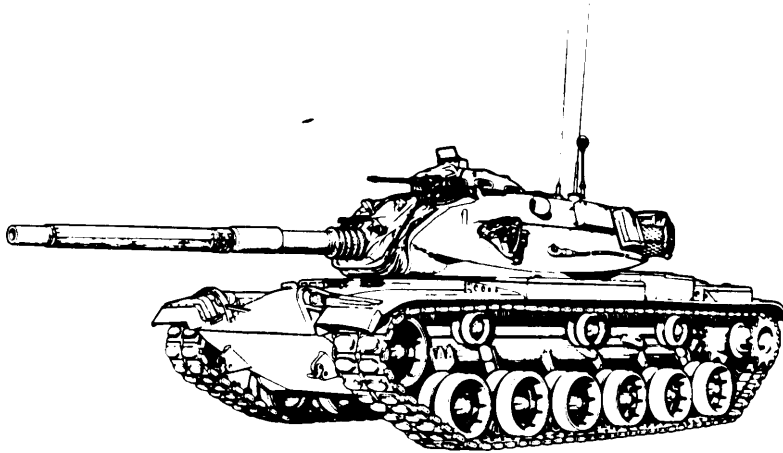

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

AIR INDUCTION SYSTEM MAINTENANCE



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M48 & M60 SERIES VEHICLES

HEADQUARTERS, DEPARTMENT OF THE ARMY, WASHINGTON, D.C.

SEPTEMBER 1985

**AIR INDUCTION SYSTEM MAINTENANCE
M48 AND M60 SERIES VEHICLES**

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistake or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank-Automotive Command, Attn: AMSTA-MB, Warren, Michigan 48397-5000. A reply will be furnished to you.

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CHAPTER 1

INTRODUCTION

1-1. General

The material in these instructions will help you in what should be continuous effort to keep your vehicle running properly. Scheduled inspections and repairs can prevent deadlining your vehicle. Spend a few minutes to read and familiarize yourself with the contents of these instructions before performing the maintenance checks and procedures.

1-2. Scope

These instructions are to be used for the maintenance of the M48A5, M60A1, M60A1 RISE, M60A3, M728, M48A5 AVLB, M60A1 AVLB air induction system. These instructions are the result of:

- a. Technical manual evaluations
- b. Engineering problem analysis
- c. New design efforts due to field problem reports, tests, and recommendations
- d. PS Magazine articles and other publication sources reflecting user ideas and suggestions

Much of this information will be included in future changes and revisions to technical manuals. These instructions provide procedures that are to be performed at the operator and organizational, direct support and general support maintenance levels. Chapters 2 and 3 provide crew and Organizational Maintenance inspection and maintenance procedures for vehicles equipped with the conventional air induction system. Chapter 4 provides instructions to apply reliability improvements to vehicles equipped with the conventional air induction system. Chapters 5 and 6 provide crew and Organizational Maintenance inspection and maintenance procedures for vehicles equipped with the improved clean air induction system. Appendix B lists repair parts required to support vehicles equipped with either the conventional or improved air induction system.

NOTE

This technical bulletin must be used in conjunction with the applicable vehicle operator's manual (TM-10) and hull organizational maintenance manual (TM-20-1).

CHAPTER 2
CONVENTIONAL AIR INDUCTION SYSTEM
CREW MAINTENANCE

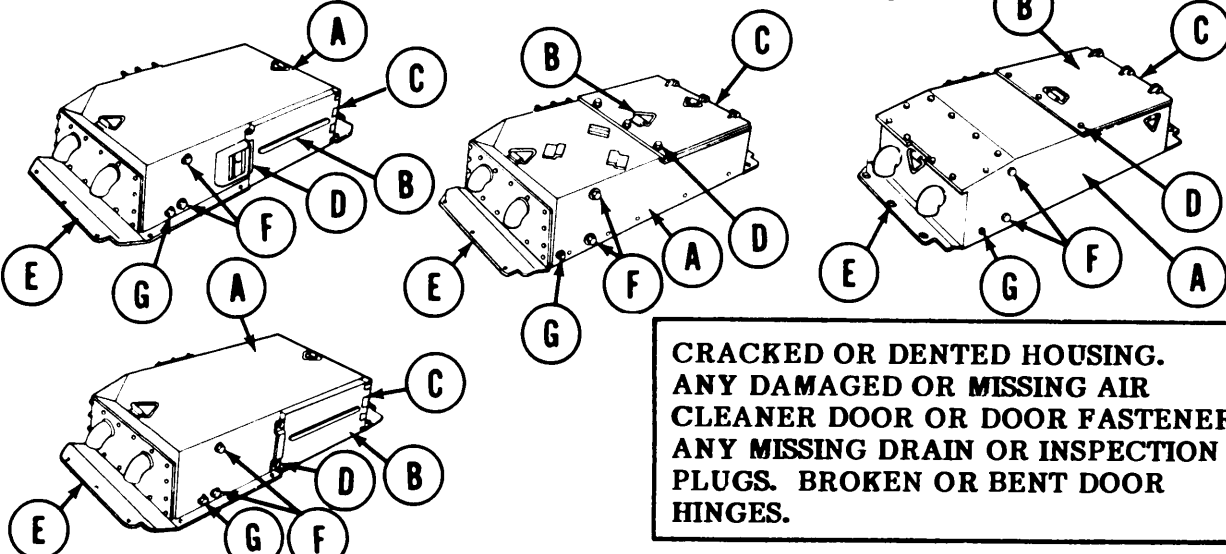
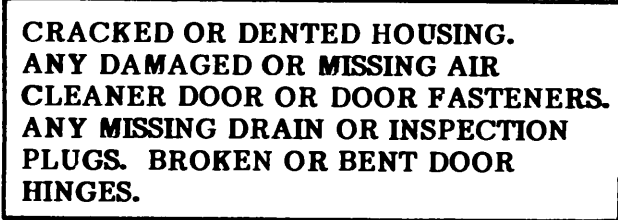
2-1. General

This chapter contains inspection and maintenance instructions that the crew is authorized to perform to keep the air induction system operational. A large percentage of engines have to be replaced because dust, dirt, and foreign material is drawn into the engine due to a defective air induction system. The crew is responsible for the condition of the vehicle. Crew maintenance is limited to performance of the daily preventive maintenance, checks, and services (PMCS). Report all uncorrected defects to organizational maintenance. The crew may perform other maintenance procedures, but only under the direction of organizational maintenance.

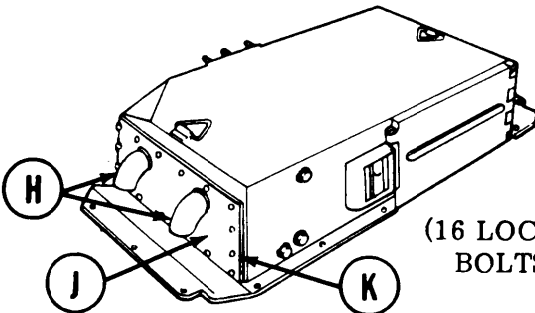
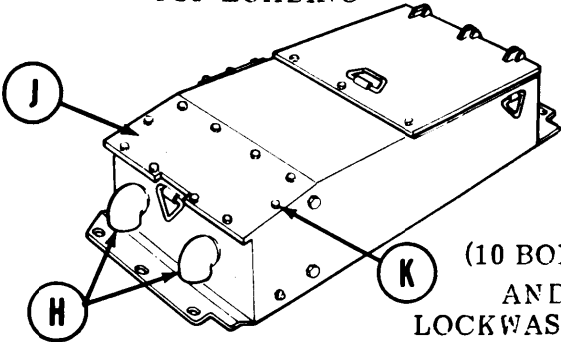
2-2. Preventive Maintenance Checks and Services (PMCS)

The following PMCS table lists checks and services that are to be performed on a daily basis to find, correct, or report problems that are caused by normal wear and tear.

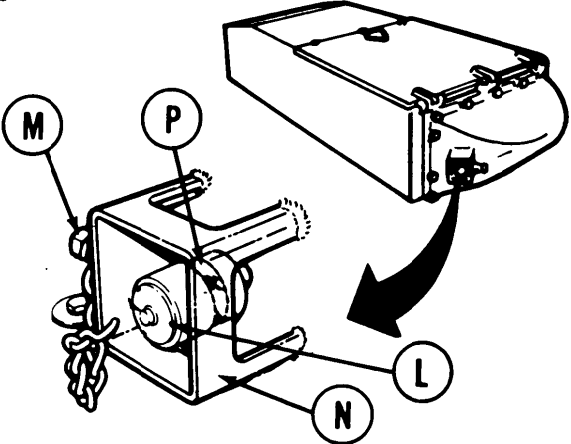
Preventive Maintenance Checks and Services, Sub-Section I - Continued

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED Procedure | DAILY (required only if you operate) | EQUIPMENT IS NOT READY/AVAILABLE IF - |
|------|--------|--------|-------|--|--|--|
| 1. | ● | | | AIR CLEANER HOUSINGS AND DOORS RIGHT AND LEFT SIDES | | |
| 2. | ● | | | Inspect housing (A) for cracks and dents. | | |
| 3. | ● | | | Check Door (B), hinges (C), door locking bolts or fasteners (D) for cracks, broken or missing parts. | | |
| 4. | ● | | | Check base plate (E) for cracks. | | |
| | | | | <p>Check that inspection plugs (F) and drain plug (G) are not missing.</p>  |  | |

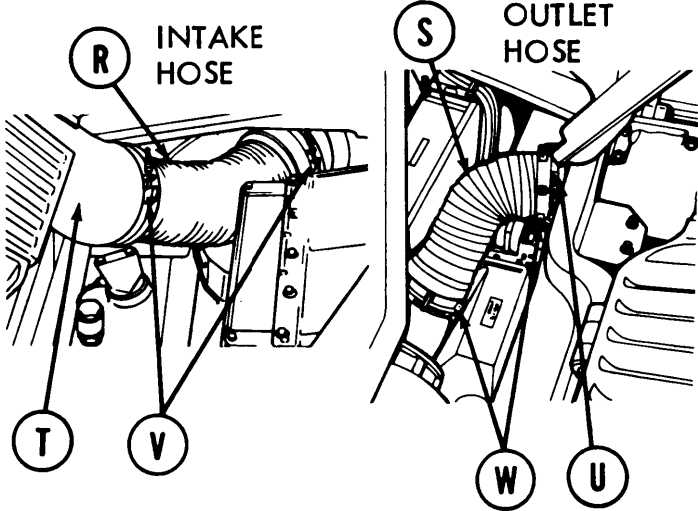
Preventive Maintenance Checks and Services - Continued

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED Procedure | EQUIPMENT IS NOT READY/AVAILABLE IF - |
|------|--------|--------|-------|--|---|
| 5. | ● | | | <p>AIR CLEANER BLOWER MOTORS (RIGHT AND LEFT SIDES) (ENGINE RUNNING)</p> <p>Check that flow of air can be felt at all four blower motor elbows (H).</p> <p align="center">CAUTION</p> <p>If no airflow is present, shut off engine.</p> | <p>NO AIRFLOW AT EITHER BLOWER MOTOR ELBOW ON SAME AIR CLEANER HOUSING.</p> <p>BLOWER MOTOR ACCESS PLATE MISSING.</p> |
| 6. | ● | | | <p>Check blower motor access plate (J) for cracks, loose or missing locking bolts (k).</p> <p align="center">SIDE LOADING</p>  <p align="center">(16 LOCKING BOLTS)</p> | <p align="center">TOP LOADING</p>  <p align="center">(10 BOLTS AND LOCKWASHERS)</p> |

Preventive Maintenance Checks and Services - Continued

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED Procedure | DAILY (required only if you operate) | EQUIPMENT IS NOT READY/AVAILABLE IF - |
|------|--------|--------|-------|--|---|--|
| 7. | ● | | | <p>FILTER CLOG INDICATORS, RIGHT AND LEFT SIDES (If your tank is equipped with restriction indicators)</p> <p>Check that restriction indicator (L), pipe plug (M) or restriction indicator guard (N) are not damaged or missing.</p> |  | |
| 8. | ● | | | <p>Check indicator reading.</p> <p>Early model - filter clog indicator window (P) should not show red. If red, notify organizational maintenance.</p> <p>Late model - A reading of 30 or more means that the filter element requires cleaning. Notify organizational maintenance. A reading of 25 indicates that the elements should be cleaned before any extensive move.</p> | <div data-bbox="1381 722 1911 803" style="border: 1px solid black; padding: 2px;"> <p>BOTH FILTER CLOG INDICATOR AND PIPE PLUG ARE MISSING.</p> </div> <div data-bbox="1381 812 1911 893" style="border: 1px solid black; padding: 2px;"> <p>EARLY MODEL - FILTER CLOG INDICATOR SHOWS RED.</p> </div> <div data-bbox="1381 901 1911 982" style="border: 1px solid black; padding: 2px;"> <p>LATE MODEL - SHOWS 30 OR MORE.</p> </div> | |

Preventive Maintenance Checks and Services - Continued

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED Procedure | EQUIPMENT IS NOT READY/AVAILABLE IF - |
|---|--------|--------|-------|--|--|
| | | | | <p align="center">AIR CLEANER ELBOWS, HOSES, AND CLAMPS - RIGHT AND LEFT SIDES (Accomplish with top grille doors open)</p> <p align="center">NOTE All AVLBs Bridge must be in a raised position to perform Steps 9, 10, and 11.</p> <p>9. ● Check that air cleaner intake hoses (R) and outlet hoses (S) are not cracked, damaged, or missing.</p> <p>10. ● Check that intake hose elbows (T) and outlet hose elbows (U) are not loose, damaged, or missing.</p> <p>11. ● Check intake (V) and outlet (W) hose clamps (two on each hose) to ensure they are not loose, broken, or missing.</p> |  <p>The diagram shows two views of the air cleaner assembly. The left view shows the intake hose (R) and its elbow (T). The right view shows the outlet hose (S) and its elbow (U). Hose clamps are labeled V and W. Arrows point from the labels to the corresponding parts in the diagram.</p> |
| <p align="center">INTAKE OR OUTLET HOSES ARE DAMAGED OR MISSING. ELBOWS ARE LOOSE OR DAMAGED. HOSE CLAMPS LOOSE, BROKEN, OR MISSING.</p> | | | | | |

Preventive Maintenance Checks and Services - Continued

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED Procedure | DAILY (required only if you operate) | EQUIPMENT IS NOT READY/AVAILABLE IF - |
|------|--------|--------|-------|---|--|--|
| | | | | DURING PERIOD OF OPERATION, LOOK FOR THESE INDICATIONS OF A DIRTY AIR INDUCTION SYSTEM. | | |
| 12. | | ● | | Exhaust smoke is excessively black. | | |
| 13. | | ● | | Filter clog indicator does not indicate or shows a red window (early model) or a high reading (late model). See filter clog indicators (paragraph 2-4) for detailed instructions. | <div data-bbox="1266 431 1902 553" style="border: 1px solid black; padding: 5px;"> <p>EARLY MODEL - FILTER CLOG REMAINS RED AFTER RESET. LATE MODEL - SHOWS 30 INCHES OR MORE.</p> </div> | |
| 14. | | ● | | Noticeable loss of engine power | | |
| 15. | | ● | | Little or no airflow from the blower motor discharge elbows. | <div data-bbox="1266 613 1902 735" style="border: 1px solid black; padding: 5px;"> <p>NO AIRFLOW AT EITHER BLOWER MOTOR ELBOW ON SAME AIR CLEANER HOUSING.</p> </div> | |

2-3. Air Cleaner Inspection.

- a. Examine the housing and the base plate for hairline cracks. If you find cracks in the housing, report to organizational maintenance immediately so the air cleaner assembly can be replaced. Do not operate the tank until it is repaired.
- b. With the engine running, check to see that air exhaust can be felt at all four blower motor elbows (fig. 2-1). Notify organizational maintenance immediately if two are not working on the same air cleaner. Do not operate your tank. If air exhaust can be felt at only one blower motor elbow on each air cleaner, you may continue to operate. Notify organizational maintenance at first opportunity because the blower motors may be inoperative and require replacement.

NOTE

Not all air cleaners have air cleaner filter clog indicators.

- c. If your air cleaner has a filter clog indicator, take a reading as described in paragraph 2-4.

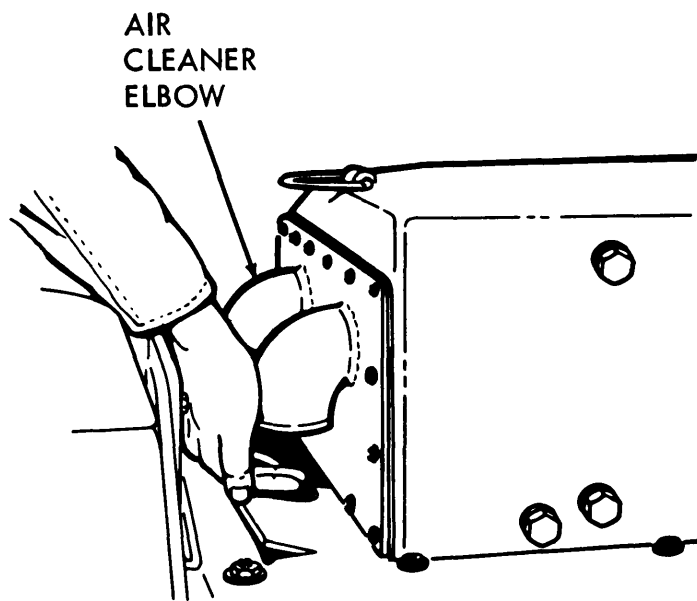


Figure 2-1. Blower motor check.

2-4. Air Cleaner Filter Clog Indicator

a. General.

The air cleaner filter clog indicator provides a visual means of determining when the air cleaner filter element must be serviced without actually opening the air cleaner box and inspecting the filter element. Two models of indicators are presently being used (fig. 2-2).

b. Checking. To determine if air filter element needs servicing.

Check indication on air restriction indicator.

Early Model - If red disk is visible, notify organizational maintenance.

Late Model-If reading is more than 25, notify organizational maintenance.

2-5. Engine Air Intake (Fig. 2-3).

a. General.

During normal and water fording operations, the engine air intakes (view A) must be positioned to draw air from the crew compartment. During extreme cold or an NBC attack alert, the engine air intakes must be reversed to draw air from the engine compartment (para b below)

b. Reversal Procedure.

- (1) Remove four screws and washers and cover (view A). A gasket is cemented to cover.
- (2) Remove six nuts and washers (view B).
- (3) Remove eight nuts and washers.
- (4) Remove intake from bulkhead.
- (5) If gaskets and/or intake are damaged, notify organizational maintenance.
- (6) Position intake on flange studs with screen toward engine compartment. (View C).
- (7) Install six nuts and washers on studs. (View C).
- (8) Install eight nuts and washers on studs. (View D).
- (9) Position cover on intake and install four screws and washers.

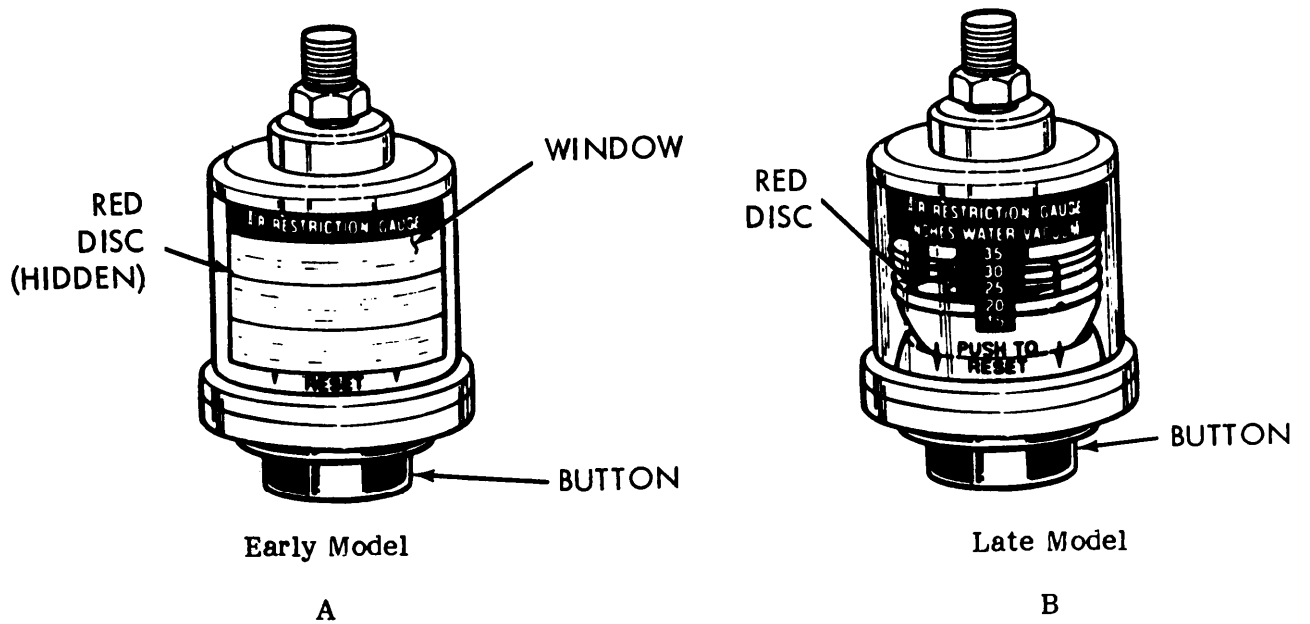


Figure 2-2. Air cleaner filter clog indicator.

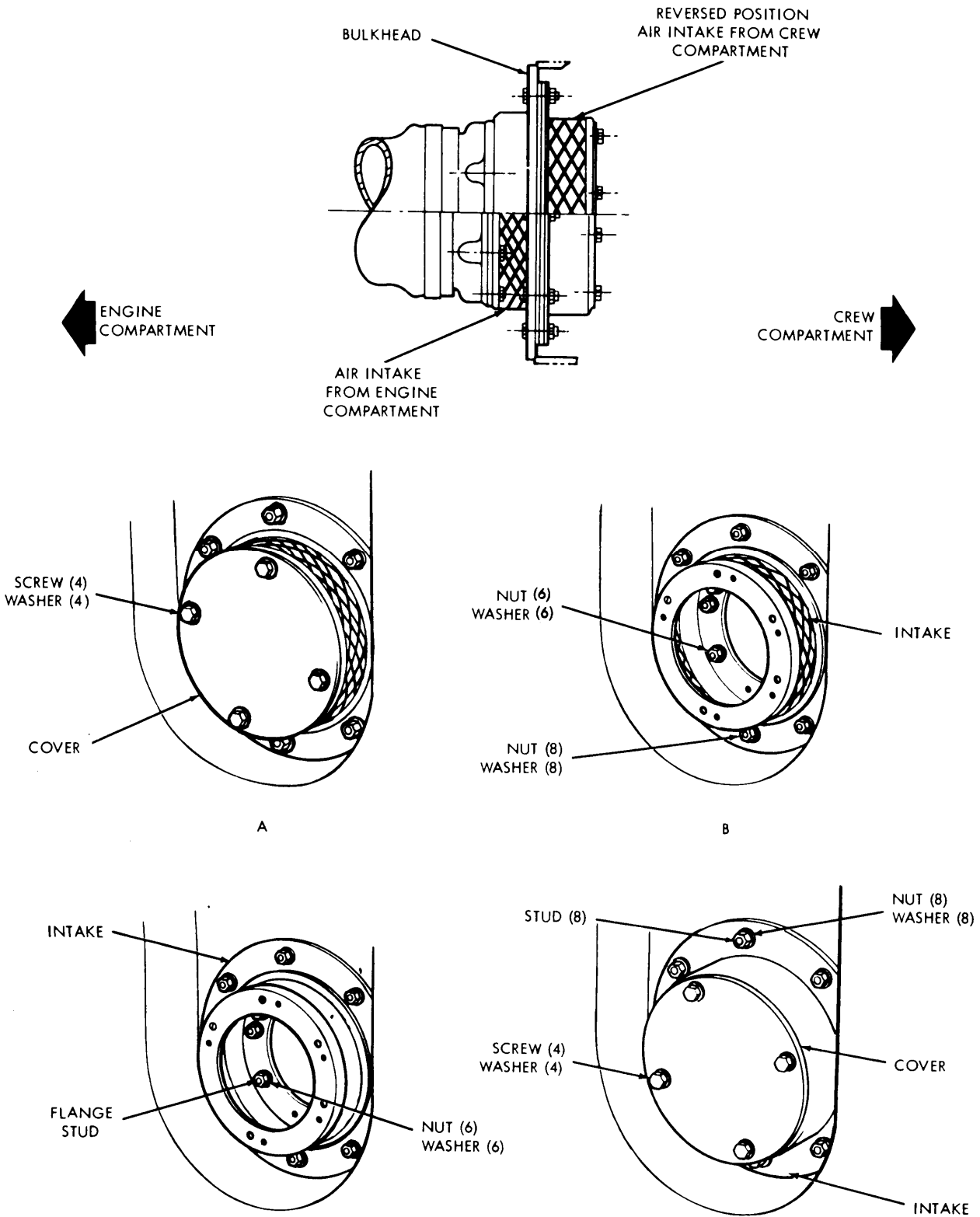


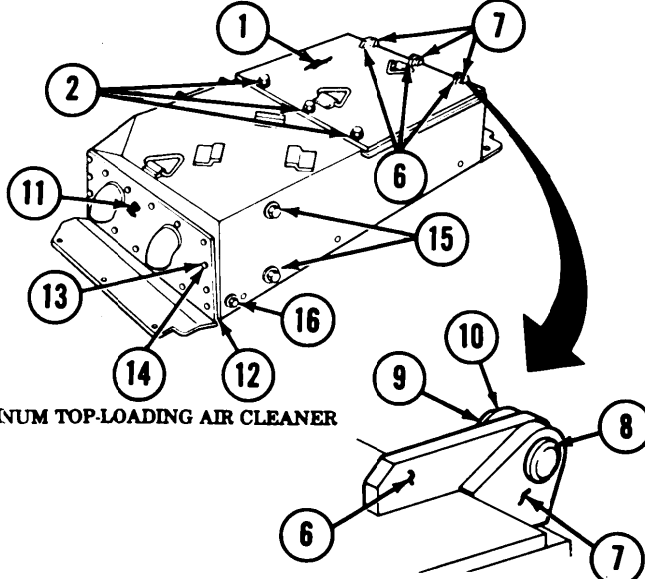
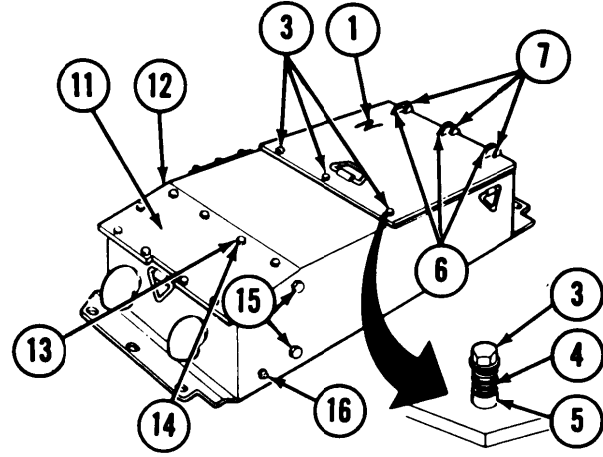
Figure 2-3. Engine air intake

CHAPTER 3
CONVENTIONAL AIR INDUCTION SYSTEM
ORGANIZATIONAL MAINTENANCE

3-1. Preventive Maintenance Checks and Services (PMCS)

- a. General* Preventive maintenance for the conventional air induction system is the systematic care, inspection, and service of equipment to maintain it in serviceable condition and detect faults and failure before extensive and time-consuming repairs or replacement are required. Not all possible repairs are described in these instructions. Those that are will be referenced in the PMCS. For items not referenced and are not self-explanatory, refer to the appropriate TM-20 technical manual.
- b. Procedures* The PMCS table is set up to be performed by organizational personnel QUARTERLY and should be assisted by the crew. For vehicles equipped with top loading air cleaners; perform PMCS table 3-1, for vehicles equipped with side loading air cleaners, perform PMCS table 3-2.

Table 3-1. Top Loading Air Cleaner Organizational Preventive Maintenance Checks And Services

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES TOP LOADING AIR CLEANERS ONLY |
|----------|-------------------------------------|---|
| 1. | Air Cleaners (Left and Right Sides) | <p style="text-align: center;">NOTE</p> <p>If captive bolts are missing or defective, see paragraph 4-3.</p> <p>Check air cleaner doors (1) for damaged or missing bolts and washers (2) or captive bolts (3).</p> <p>If door (1) is equipped with captive bolts (3), check springs (4) and retainers (5) for damage or missing.</p> <p>Check door hinges (6) and housing hinges (7) for damage cracks or missing.</p> <p>Ensure hinges (6) and (7) are held together with serviceable pin (8), washer (9), and cotter pin (10).</p> <p>Check that blower motor access plate (11), gasket (12), and mounting screws (13) and lockwashers (14) are not loose, damaged, or missing.</p> <p>Check that pipe plugs (15) (also known as inspection plugs) and drain plug (16) are not loose or missing.</p> <p style="text-align: center;">SERVICE NOTE</p> <p>Remove the two inspection plugs. Direct air into the top hole and blow dust out bottom hole. Reinstall plugs.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  <p style="text-align: center;">ALUMINUM TOP-LOADING AIR CLEANER</p> </div> <div style="display: flex; justify-content: space-around; align-items: center;">  <p style="text-align: center;">ARMORED TOP-LOADING AIR CLEANER</p> </div> |

NOTE
If any defects are found that require replacement of the aluminum air cleaner housing, see paragraph 4-10.

7. Air Cleaners
(Left and
Right Sides)

Check air cleaner housing
for cracks or damage.

8.

Check base plate (17) for
cracks or damage.

9.

Ensure base plate (17) for
aluminum air cleaner is
properly secured to fender
support (18) with screw (19)
and washer (20).

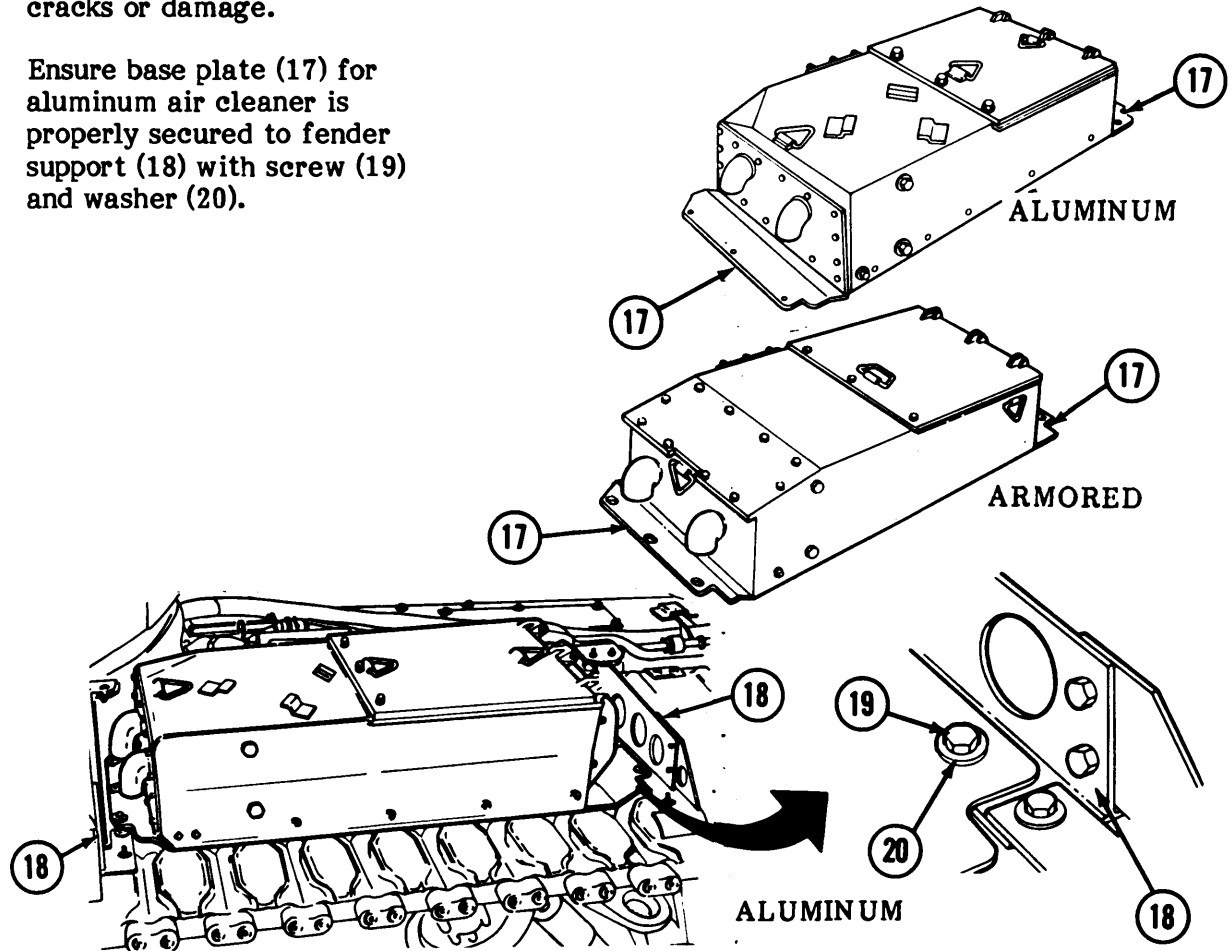
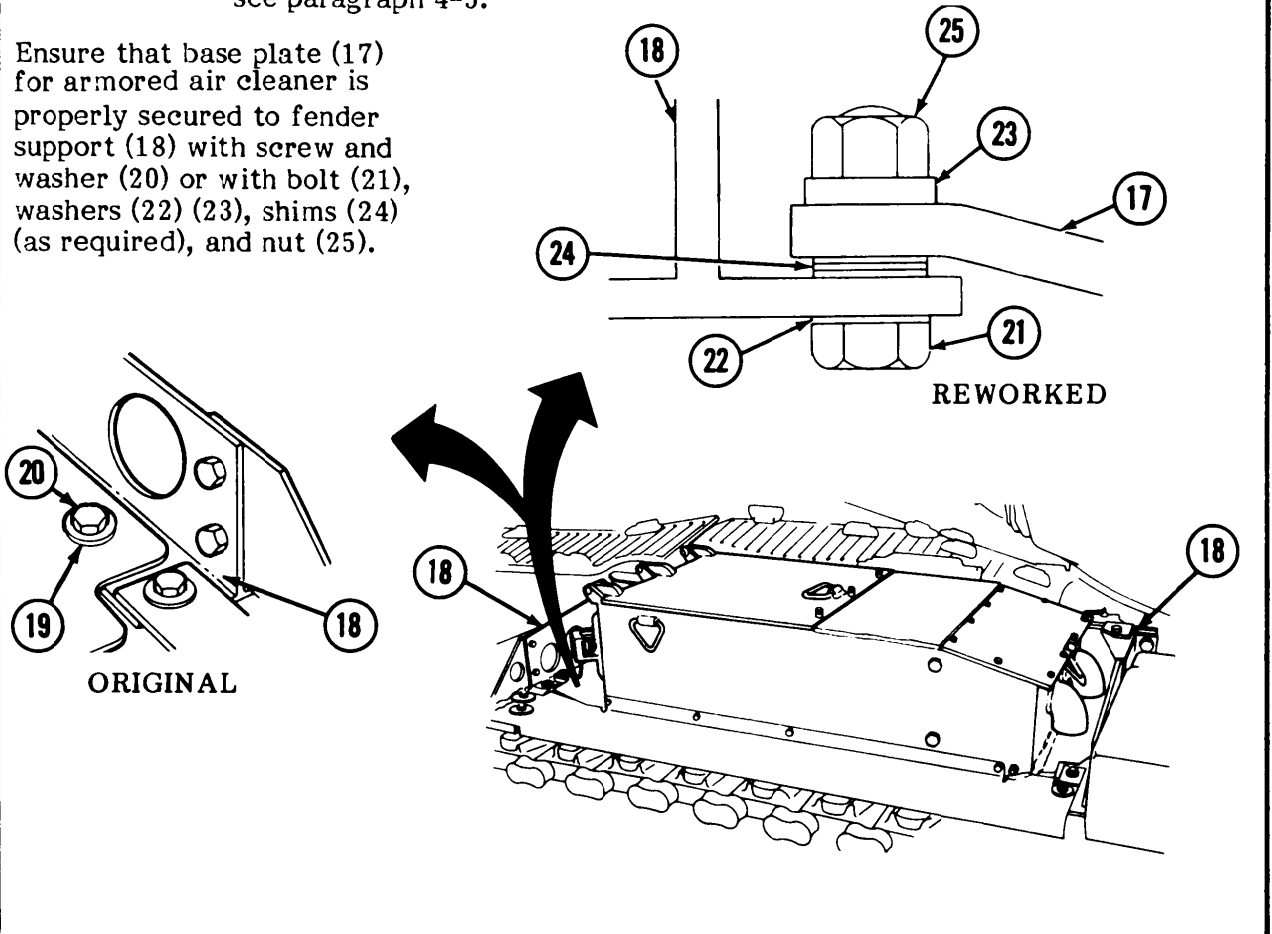


Table 3-1. Top Loading Air Cleaner Organizational Preventive Maintenance Checks and Services-Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES TOP LOADING AIR CLEANERS ONLY |
|-------------|---|---|
| 9. Cont. | Air Cleaners (Left and Right Sides) | <p>NOTE If armored air cleaner base plate (17) is secured with original 3/8 inch screw (19) and washer (20), see paragraph 4-5.</p> <p>Ensure that base plate (17) for armored air cleaner is properly secured to fender support (18) with screw and washer (20) or with bolt (21), washers (22) (23), shims (24) (as required), and nut (25).</p>  |

Air Cleaners
(Left and
Right Sides)

WITH AIR CLEANER FILTER ACCESS DOOR OPEN

10. Check access door seal (26) for permanent indentation, excessive hardness, cracks, damage, or missing.

11. Check that cam arms (27) are not bent, cracked, or missing.

12. Check sealing lip (28) on housing for any damage.

NOTE

1. Air cleaner assembly must be replaced if cam arms are cracked or missing.
2. Air cleaner assembly must be replaced if sealing lip is damaged.

13. Check three bolt holes (29) to ensure they have been drilled through and are free from dirt or obstruction. (See paragraph 4-2).

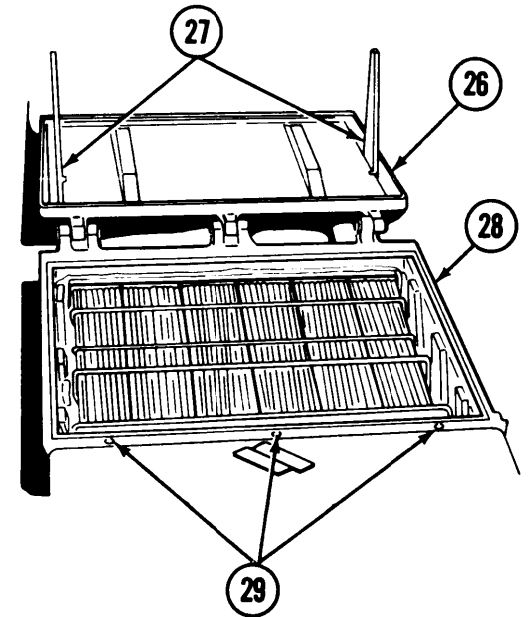
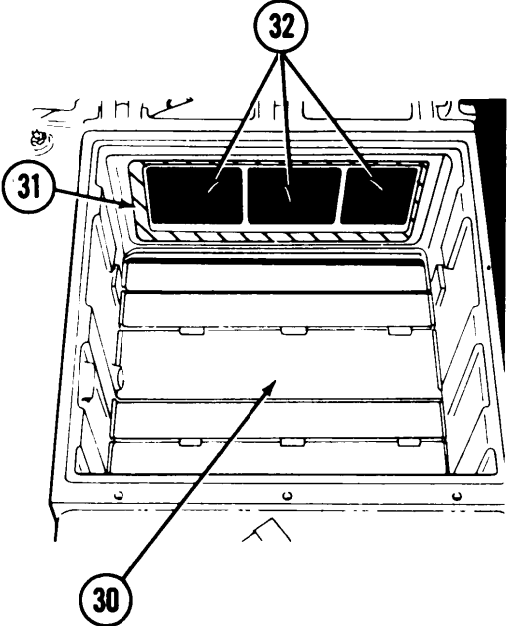
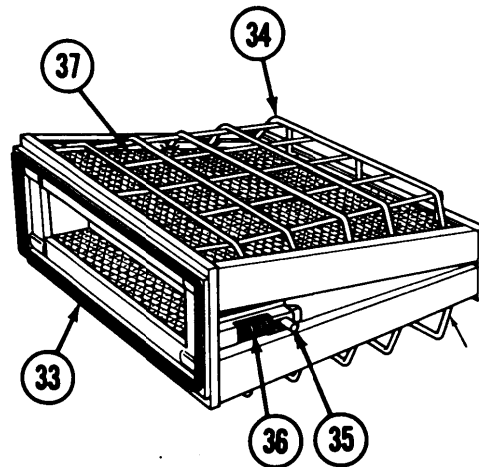


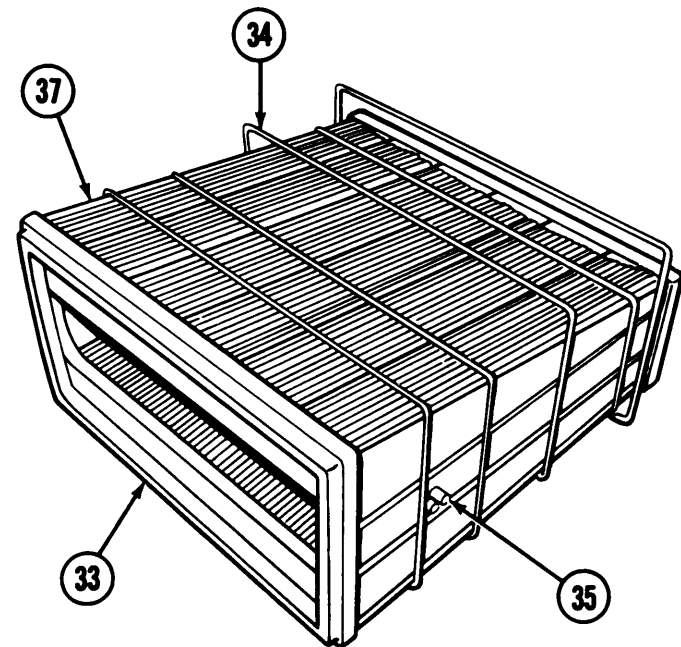
Table 3-1. Top Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES TOP LOADING AIR CLEANERS ONLY |
|----------|-------------------------------------|---|
| 14. | Air Cleaners (Left and Right Sides) | <p><u>REMOVE FILTER ELEMENT FROM FILTER COMPARTMENT</u></p> <p>NOTE If any defects are found that require replacement of the aluminum air cleaner housing, see paragraph 4-10.</p> <p>Check filter compartments (30) for internal cracks or damage.</p> <p>Check filter element sealing surface (31) for any damage which could prevent proper sealing of the filter element.</p> <p>Check inside of air cleaner outlet elbow (32) for dust trails.</p> <p>NOTE Dust trails in the outlet elbow may be caused by damaged seal between air cleaner and outlet elbow, missing air restriction indicator (if equipped) or damaged air filter element.</p>  |
| 15. | | |
| 16. | | |

- | | | |
|-----|---|--|
| 17. | Air Cleaners (Left and Right Sides) | Check that filter element seal (33) does not have permanent indentation, excessive hardness, cracks, damage, or is missing |
| 18. | | Check filter element frame (34) and both locking pins (35) for damage. |
| 19. | | Check that spring (36) is not damaged or missing. |
| 20. | | Check filter element (37) for rips, holes, tears, or other damage. If serviceable, <u>clean</u> . If unserviceable, <u>replace</u> . |

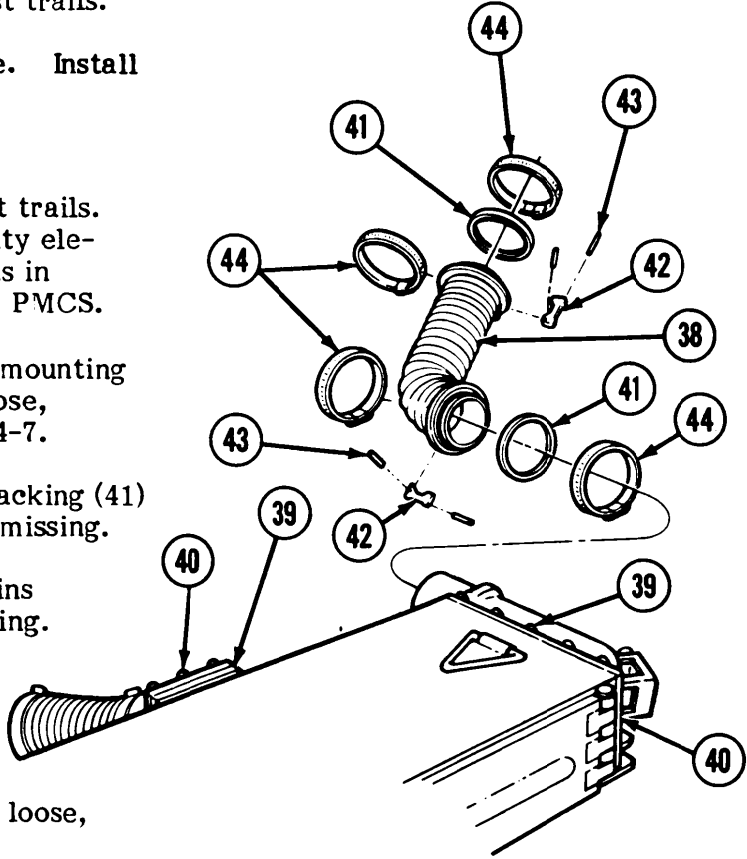


LATE MODEL
(SPRING LOADED) FILTER ASSY.



EARLY FILTER ASSY.

Table 3-1. Top Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES TOP LOADING AIR CLEANERS ONLY |
|----------|---|--|
| 21. | Air Cleaners Elbows, Hoses, and Clamps (Left and Right Sides) | <p><u>ACCOMPLISH WITH TOP GRILLE DOORS OPEN</u></p> <p>Remove air cleaner outlet hose (38), check for cracks, holes, or damage and dust trails.</p> <p>Replace hose (38) if unserviceable. Install hose (38) if serviceable.</p> <p>NOTE Look for the source of dust trails. Dust can enter from a faulty element or failure of the parts in Steps 22 through 33 of this PMCS.</p>  |
| 22. | | Check that intake and outlet elbow mounting nuts (39) and gaskets (40) are not loose, or missing. If loose, see paragraph 4-7. |
| 23. | | Check that outlet hose preformed packing (41) is not loose, hardened, damaged, or missing. |
| 24. | | Check that fingers (42) and spring pins (43) are not loose, damaged, or missing. |
| 25. | | Check that hose clamps (44) are not loose, damaged, or missing. |

- | | | |
|-----|---|--|
| 26. | Air Cleaners Elbows, Hoses, and Clamps (Left and Right Sides) | Check elbow (45) for cracks or damage and dust trails. Ensure washers (46), nuts (47), and gasket (48) are not loose or missing. |
| 27. | | Check both air cleaner inlet hoses (49) for cracks, tears, holes, or damage. |
| 28. | | Check that hose clamps (50) are tight, not damaged, or missing. |

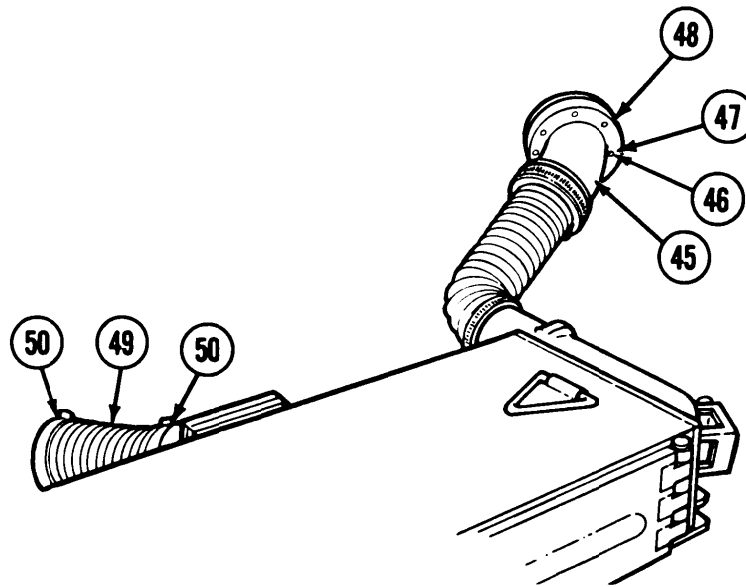
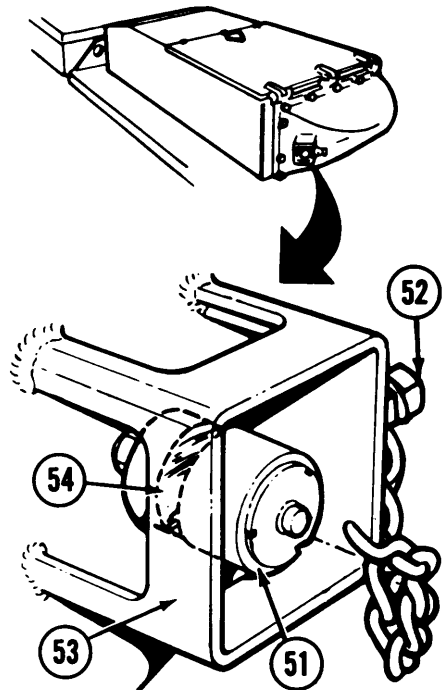


Table 3-1. Top Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES TOP LOADING AIR CLEANERS ONLY |
|----------|---|--|
| 29. | Air Cleaner Filter Clog Indicators (left and right sides) (If equipped) | <p>Using fingers, check if filter clog indicator (51) is loose or missing. If loose, tighten finger tight.</p> <p style="text-align: center;">NOTE</p> <p>Filter clog indicator must be present. If indicator is not installed, plug (52) must be installed in place of indicator (51) until indicator (51) is available.</p> |
| 30. | | <p>Check indicator (51) for cracks. Check that pipe plug (52) is not missing. Check that clog indicator guard (53) is not missing or damaged.</p> |
| 31. | | <p>Check indicator reading in window (54).</p> <p>Late Model - A reading of 30 or more indicates filters require cleaning. A reading of 25 indicates that the elements should be cleaned before any extensive move.</p> <p style="text-align: center;">WARNING</p> <p>Make sure area around vehicle is clear of personnel and equipment before performing the following step.</p> <p>Early Model - Start engine, apply vehicle brakes, put transmission lever in high gear, accelerate to 1800/1900 rpm for no more than 30 seconds, and check filter clog indicator reading. If window (54) shows red, press reset button and repeat procedure above. If window shows red again, clean or replace filter element. If reset button won't depress, filter clog indicator (51) is defective and must be replaced (TM 20-1).</p> |



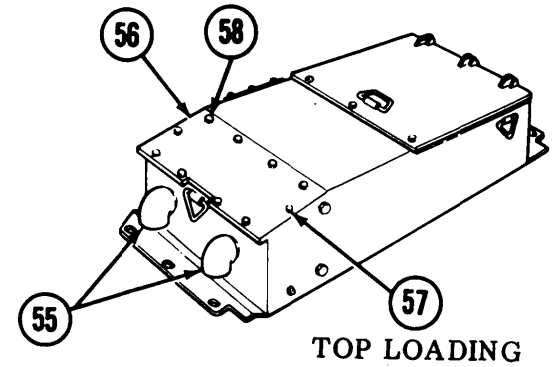
ACCOMPLISH WITH ENGINE RUNNING

32. Air Cleaner
Blower Motor
(Right and
Left Sides)

Place hand under all four blower motor elbows (55) and feel for strong flow of air.

CAUTION

If no airflow is present, shut off engine and repair. (TM20)



- 33.

Check that blower motor access plate (56) is not cracking or missing. Check that mounting bolts and lockwashers (57) are not loose or missing.

CAUTION

Do not operate vehicle without access plate(s).

Table 3-2. Side Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES SIDE LOADING AIR CLEANERS ONLY |
|----------|-------------------------------------|--|
| 1. | Air Cleaners (Left and Right Sides) | <p>NOTE Repairs to the side loading air cleaner are limited to the latching device, servicing the filter element, and replacing the blower motor. For any other defect, refer to paragraph 4-10.</p> <p>Check air cleaner doors (1) for damage and for missing or damaged bolts with washers (2), hinge pins (3), latch (4), latch screws (5), and handle (6).</p> <p>Check door hinge (7) and housing hinge (8) for cracks or damage.</p> <p>Check that blower motor access plate (9), gasket (10), and mounting screws (11), and washers (12) are not loose, damaged, or missing.</p> <div data-bbox="1312 381 1869 836"> <p>EARLY MODEL</p> </div> <div data-bbox="1312 958 1869 1364"> <p>LATE MODEL</p> </div> |
| 2. | | |
| 3. | | |

Air Cleaners
(Left and
Right Sides)

Check that pipe plugs (13) (also known as drain or inspection plugs) are not loose or missing.

SERVICE NOTE

Remove the two inspection plugs.
Direct compressed air into top hole
and blow dust out the bottom hole.
Reinstall plugs.

5. Check air cleaner housing (14) for cracks or damage.
6. Check base plate (15) for cracks or damage.
7. Ensure base plate (15) is secured to fender supports (16) by six self-locking bolts (17) and twelve washers (18) (six lock and six flat washers).

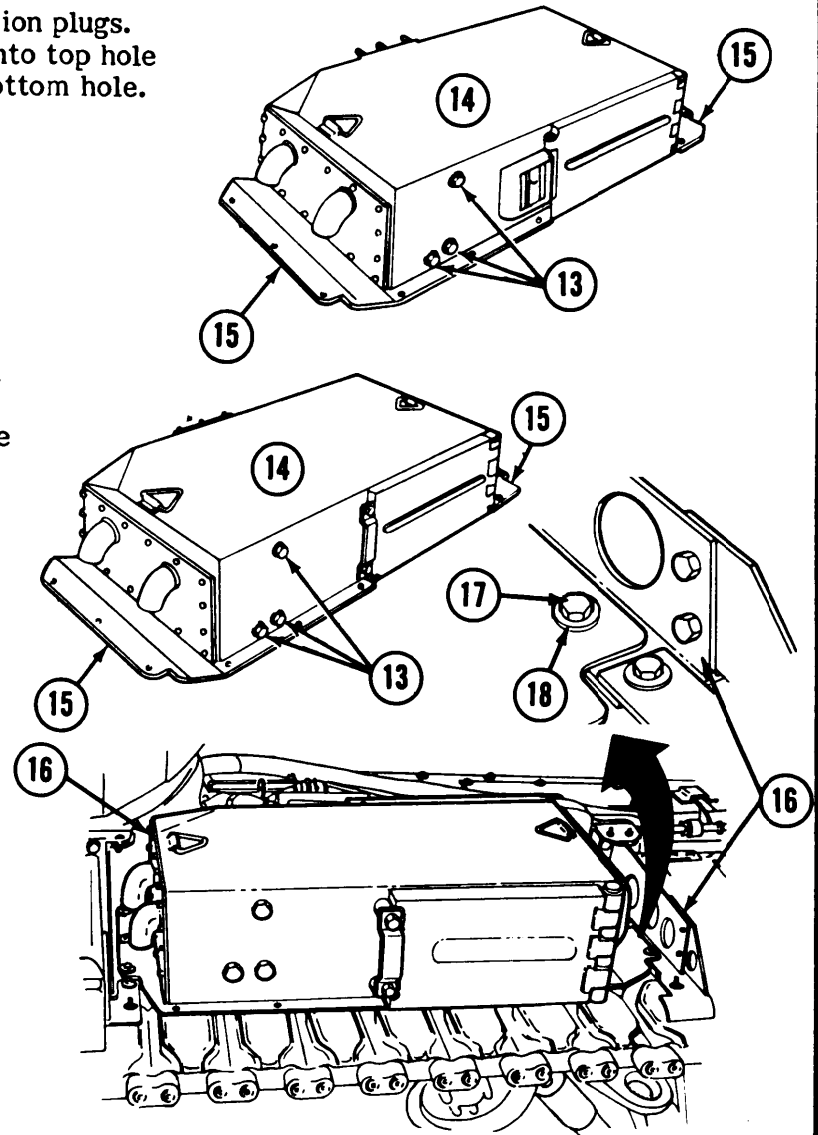
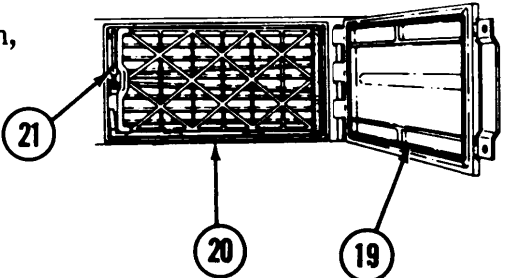
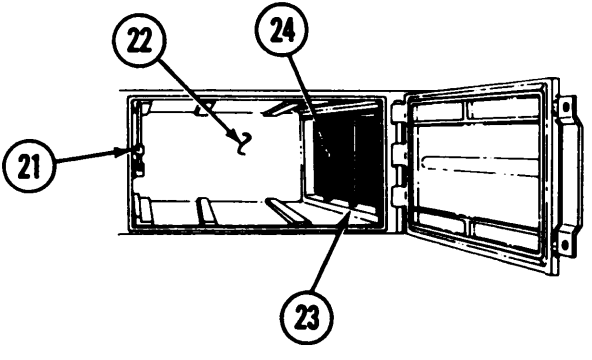


Table 3-2. Side Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES SIDE LOADING AIR CLEANERS ONLY |
|--------------------------------------|--|---|
| 8. 9. 10. 11. 12. 13. | Air Cleaner Access Door And Filter Compartment | <u>WITH AIR CLEANER FILTER ACCESS DOOR OPEN</u> |
| | | Check access door seal (19) for permanent indentation, excessive hardness, cracks, damage, or missing. |
| | | Check sealing lip (20) on housing for any damage. NOTE Housing must be replaced if sealing lip is damaged. |
| | | Check filter latching rod and springs (21) for damage or missing. |
| | | <u>WITH FILTERS REMOVED FROM FILTER COMPARTMENT</u> (See paragraph 2-3) |
| | | Check filter compartments (22) for internal cracks or damage. |
| | | Check sealing surface (23) for dents, cracks, damage, or missing seal. |
| | | Check inside of air cleaner outlet elbow (24) for dust trails. |
| | | NOTE Dust trails in the outlet elbow may be caused by damaged seal between air cleaner and outlet elbow or damaged air filter element. |
| | |   |

14. Air Cleaner Filters (Left and Right Side)

Check filter element seal (25) for permanent indentation, excessive hardness, cracks, damage, or missing.

15.

Check basket frame (26) and four seal retaining tabs (27) for damage or missing.

16.

Remove filter element (28) from basket (26). Remove twelve baffles (29) from filter element.

17.

Check filter element (28) for rips, holes, tears, or other damage.

18.

Check each baffle (29) for cracks and broken corners.

19.

Replace any unserviceable parts of filter assembly. Clean and reassemble.

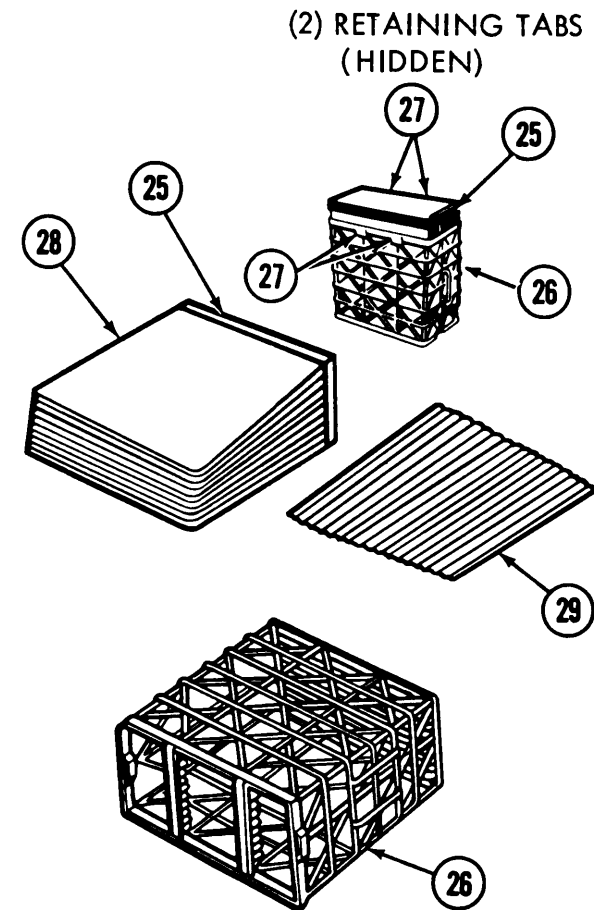
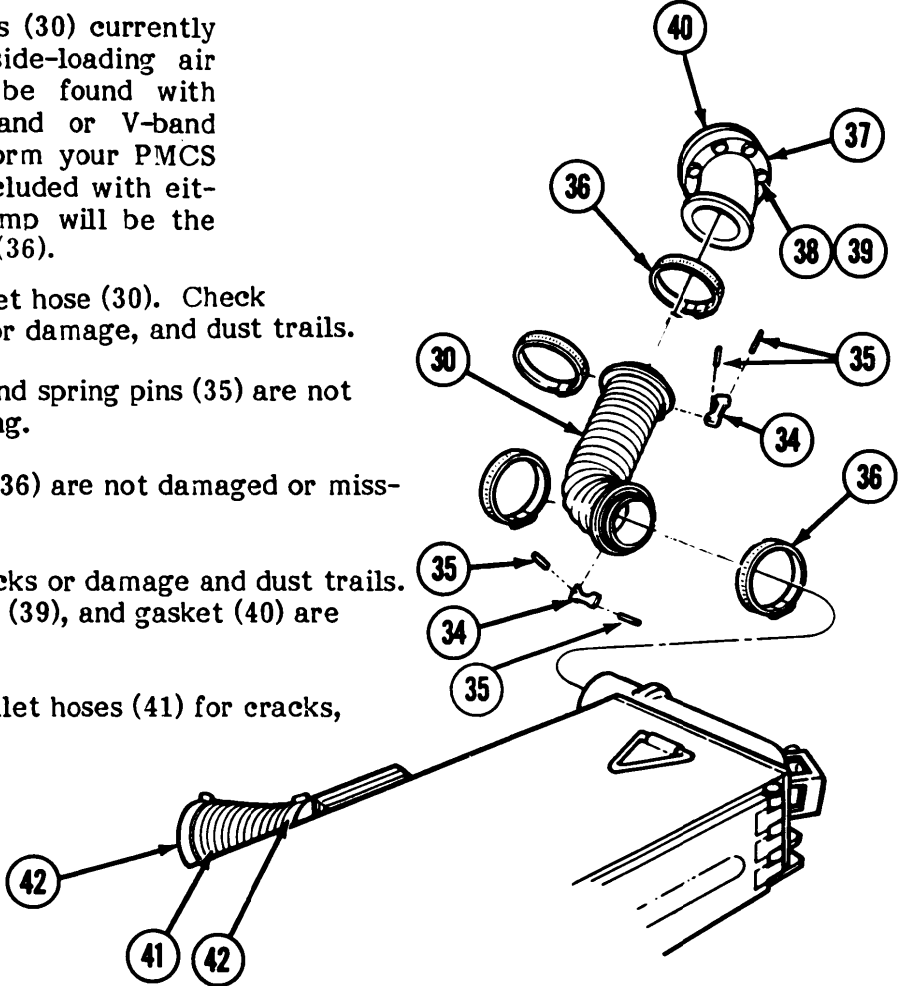


Table 3-2. Side Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES SIDE LOADING AIR CLEANERS ONLY |
|----------|---|---|
| | Air Cleaner Elbows, Hoses and Clamps (Left and Right Sides) | <p><u>ACCOMPLISH WITH TOP GRILLE DOORS OPEN</u></p> <p>NOTE The outlet hoses (30) currently found on the side-loading air cleaners may be found with either finger band or V-band clamps, so perform your PMCS accordingly. Included with either type of clamp will be the flat band clamp (36).</p> <p>20. Remove air cleaner outlet hose (30). Check for cracks, holes, tears or damage, and dust trails.</p> <p>21. Check that fingers (34) and spring pins (35) are not loose, damaged, or missing.</p> <p>22. Check that hose clamps (36) are not damaged or missing.</p> <p>23. Check elbow (37) for cracks or damage and dust trails. Ensure washers (38), nuts (39), and gasket (40) are not loose or missing.</p> <p>24. Check both air cleaner inlet hoses (41) for cracks, holes, tears, or damage.</p>  <p>The diagram shows an exploded view of the air cleaner outlet hose assembly. Callout 30 points to the main outlet hose. Callout 36 points to a flat band clamp. Callout 37 points to the elbow. Callout 38 points to a washer, callout 39 to a nut, and callout 40 to a gasket. Callout 34 points to fingers and callout 35 to spring pins. Callout 41 points to an inlet hose, and callout 42 points to the inlet hose clamp.</p> |

25.

Check that hose clamps (42) are not damaged or missing.

NOTE

Look for the source of dust trails. Dust can enter from a damaged filter element or failure of parts in Steps 20 through 27 of this PMCS.

26.

Check that intake and outlet elbow mounting nuts (31) and gasket (32) are not loose or missing. (See paragraph 4-7).

27.

Check that outlet hose preformed packing (33) are not loose, hardened, damaged, or missing.

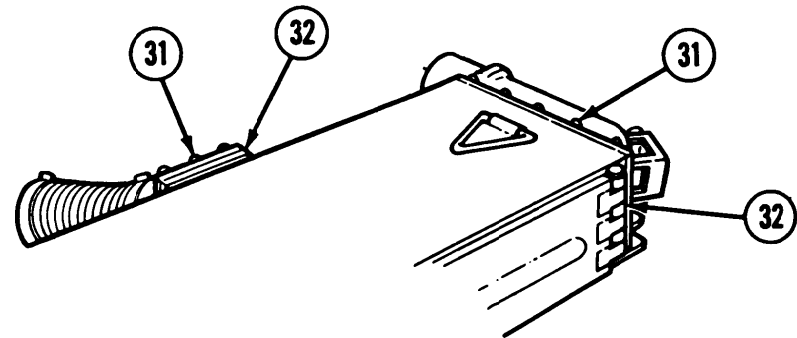
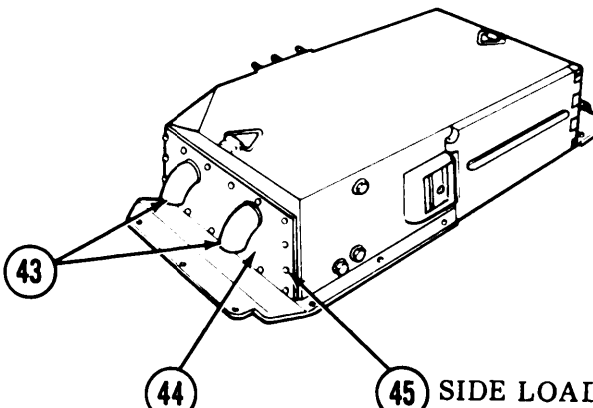


Table 3-2. Side Loading Air Cleaner Organizational Preventive Maintenance Checks and Services - Continued

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES SIDE LOADING AIR CLEANERS ONLY |
|----------|--|---|
| 29. | Air Cleaner Blower Motors (Right and Left Sides) | <p><u>ACCOMPLISH WITH ENGINE RUNNING</u></p> <p>Place hand under all four blower motor elbows (43) and feel for strong flow of air.</p> <p style="text-align: center;">CAUTION</p> <p style="text-align: center;">If no airflow is present, shut off engine and repair (TM-20)</p> |
| 30. | | <p>Check blower motor access plate (44) for cracks, loose or missing locking bolts (45).</p> <p style="text-align: center;">CAUTION</p> <p style="text-align: center;">Do not operate vehicle without access plate(s).</p> <p>TA148803</p> <div style="text-align: right;">  <p>43 44 45 SIDE LOADING</p> </div> |

3-2. Air Cleaner Filter Element Replacement

CAUTION

Never operate the engine without a filter element. If you do, dust and dirt will be drawn directly into the engine and cause severe damage.

a. *Top Loading Air Filter Element (Fig. 3-1).*

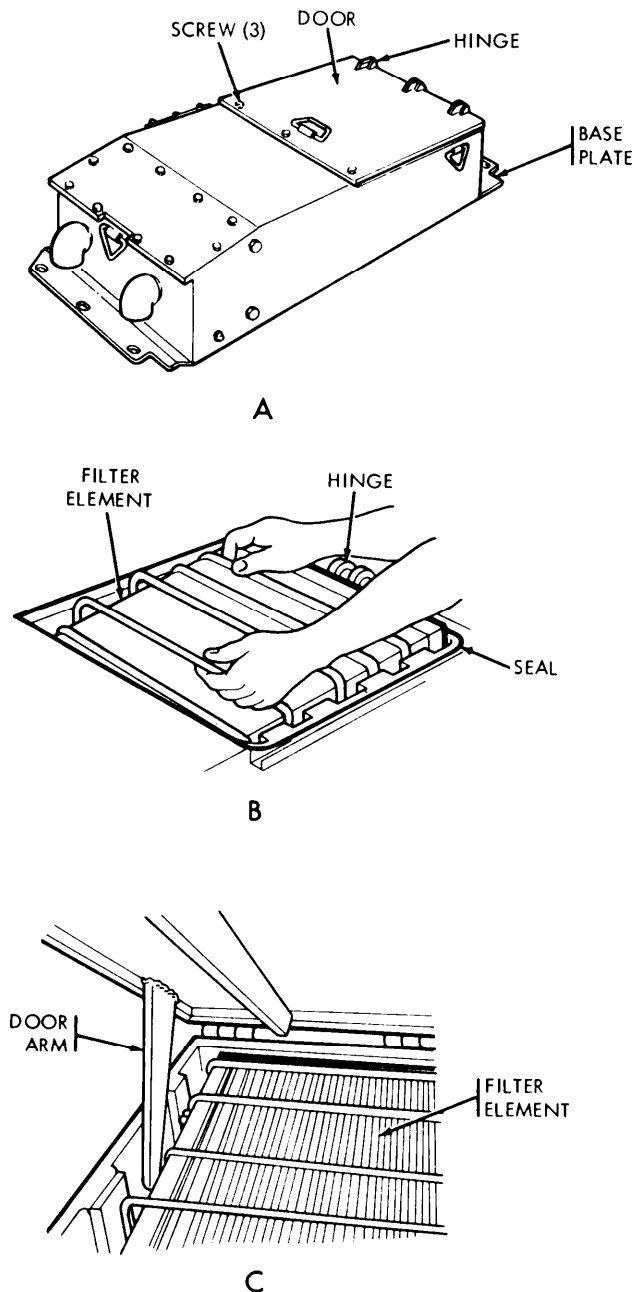


Figure 3-1. Top loading air cleaner filter element replacement.

(1) *Removal*

- (a) Clean outside of housing. Wipe dust from air cleaner access door and hinges, bolt area, base plate, and fender (view A).

CAUTION

Do not walk on air cleaner access door when it is open. Do not open air cleaner door when any engine grille doors are open.

- (b) Loosen three screws securing air cleaner door, and open door (view A).

CAUTION

Do not damage filter element seal when removing or installing element.

- (c) Slide filter element away from door hinges and carefully lift it straight up to remove from box (view B).

CAUTION

Do not hit filter element against a solid object. This will cause damage to element. Do not start engine with filter element removed, or damage to engine will result.

- (d) Cover outlet elbow port and close air cleaner door.

(2) *Installation.*

- (a) Open air cleaner access door and remove cover from air outlet port. Wipe out filter compartment with clean damp cloth.

CAUTION

When installing filter element, make sure that the seal end of element is at the hinge end of air filter assembly before lowering into compartment. Ensure filter compartment is clean before installing element.

- (b) Carefully lower filter element to bottom of box and slide toward hinges as far as possible (view B).

- (c) Make sure that filter element is properly positioned so that door arms engage locking pins on sides of filter element (view C).

CAUTION

Before closing access door, ensure all dirt and debris is removed from hinge area.

- (d) Close access door and secure with three screws.

b. Side Loading Air Filter Element (Fig. 3-2).

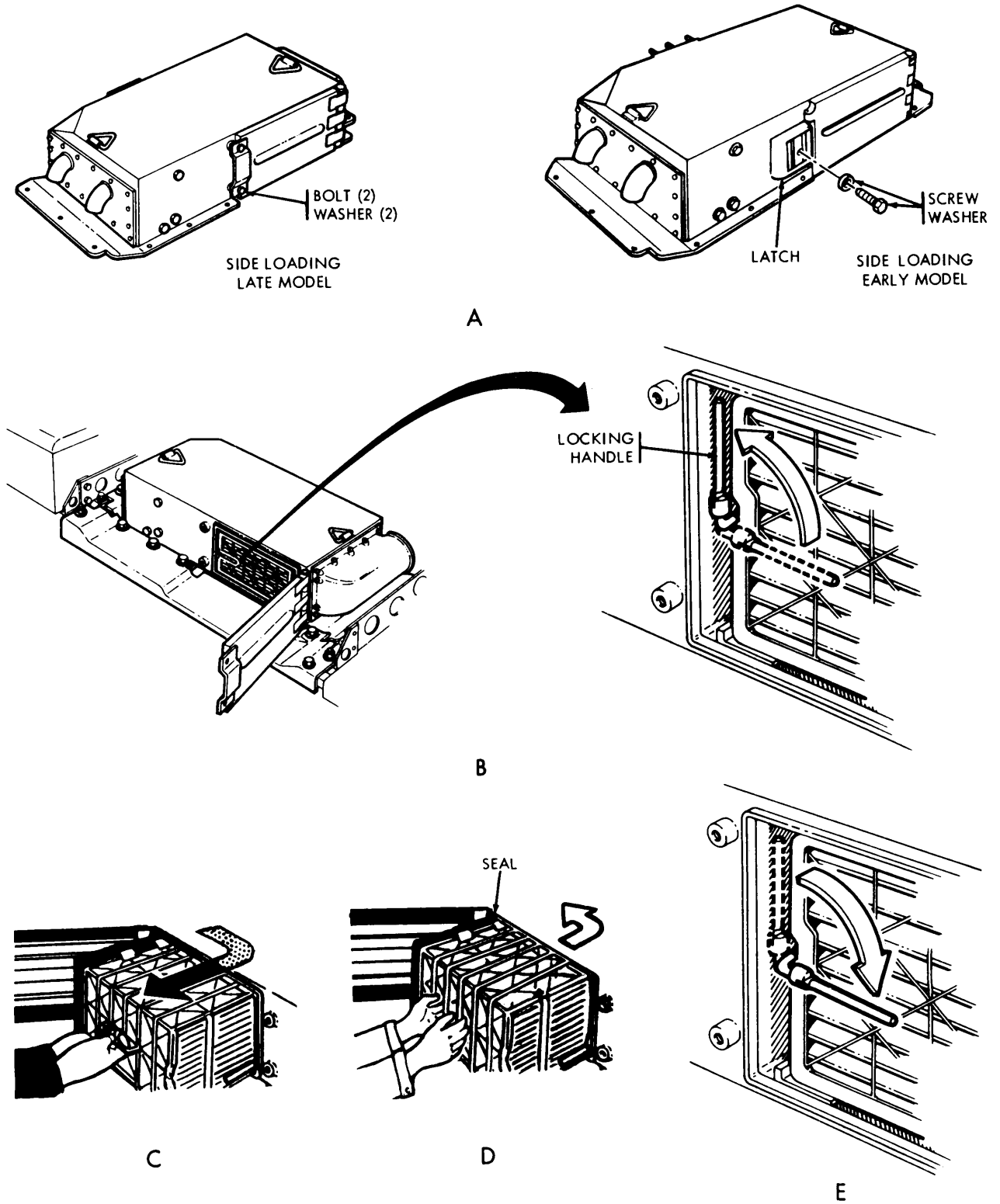


Figure 3-2. Side loading air cleaner filter element replacement.

(1) *Removal*

- (a) Remove screw and washer (on early model) or two bolts and washers (on late model) securing the access door (view A).
- (b) Open door to a full open position.
- (c) Rotate locking rod handle 1/4 turn upward to release filter assembly (view B).

CAUTION

Do not damage filter element seal when removing or installing element.

- (d) Slide filter toward front of vehicle and away from air outlet elbow duct (view C). Ease filter out of compartment carefully, to avoid damaging seal or seal retaining tabs.

CAUTION

Do not hit filter element against a solid object. This will cause damage to element. Do not start engine with filter element removed, or damage to engine will result.

- (e) Cover outlet elbow port and close air clean access door.

(2) *Installation.*

- (a) Open air cleaner access door and remove cover from outlet port.
- (b) Wipe out filter compartment using clean damp cloth.
- (c) Position filter so that seal will be toward air outlet elbow duct (view D).
- (d) Slide filter into housing as far as it will go, being careful not to damage either seal or filter retaining tabs (view D). Slide filter toward rear of vehicle so that filter seal makes direct contact with housing.
- (e) Secure filter assembly in place by rotating locking rod handle 1/4 turn downward (view E).

CAUTION

Clear door area prior to closing door. Lubricate bolt threads lightly.

- (f) Close door carefully and secure with handle latch and screw and washer (early model) or with two bolts and washers (late model) (view A). Do not omit any bolts or washers.

3-3. Air Cleaner Filter Element Service.

- a. Clean and inspect air cleaner (para. 2-3).
- b. Remove air filter element (para. 3-2a for top loading), para. 3-2b for side loading).
- c. Clean air filter element (para. 3-4b).

- d. Reach into elbow duct as far as you can and wipe dust into filter compartment. With a damp clean cloth, clean out filter compartment. Make sure dust or dirt did not go back toward air outlet elbow duct.
- e. Cover outlet port with cardboard and tape to prevent dirt from entering engine.
- f. Close access door if element will not be replaced immediately.

CAUTION

Inform crew that filter element has been removed and engine must not be started. Damage to engine could result if engine is started.

- g. Install air filter element (para. 3-2a(2) for top loading) (para. 3-2b(2) for side loading).

3-4. Air Cleaner Filter Element Inspection and Cleaning.

NOTE

There are two approved methods for cleaning of the top loading air filter elements, using compressed air or washing.

CAUTION

Do not bang or strike the element against the vehicle or any solid object. Striking the element will damage the element and the filter element must be replaced. DO NOT use a brush to clean the element. Brushes will tear holes in the filter and will allow dust and dirt to pass through and be drawn directly into the engine.

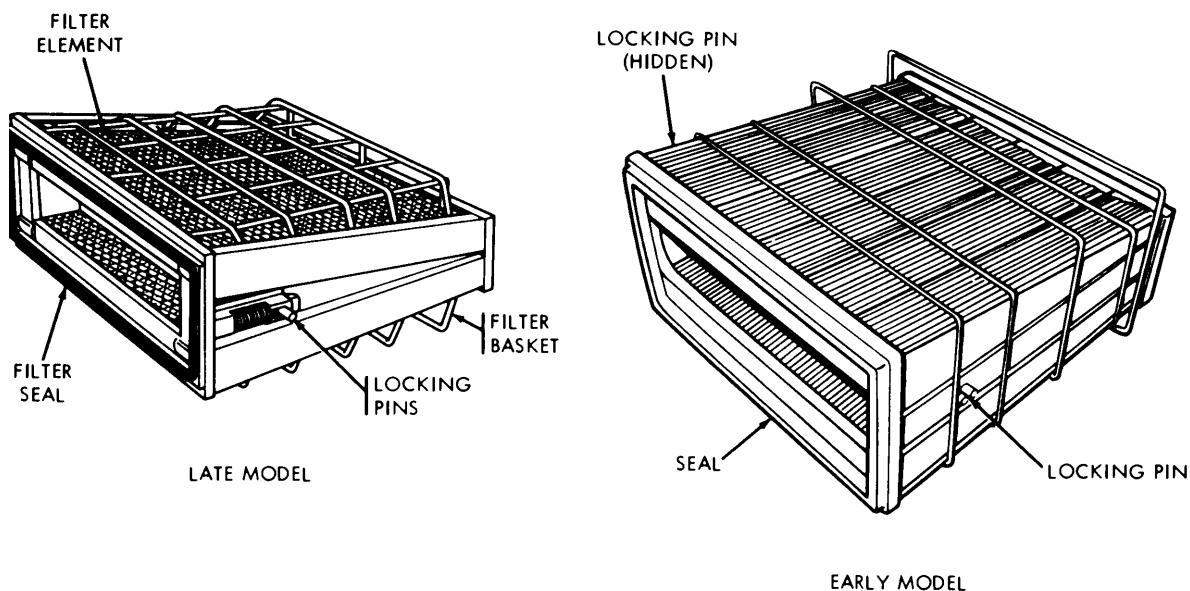
a. Inspection.

(1) General.

Inspect the filter for any defect that will let the air flow draw foreign material, including pieces of a damaged filter element, into the elbow duct. The most common defects are:

- (a)* Holes in the filter material.
- (b)* Loose parts or deformation of the element.
- (c)* Damaged seals and sealing surfaces.
- (d)* Damaged tabs and parts that hold the element in the sealed position.

(2) Top Loading Filter Element (Fig. 3-3).



- (a) Check filter element seal for permanent indentation, excessive hardness, cracks, damage, or missing.
- (b) Check filter element frame and both locking pins and springs (if equipped) for damage or missing parts.
- (c) Place light inside of filter element and check for ruptured material. Inspect from outside.
- (d) If inspection reveals any defects, replace filter element.
- (e) If filter is contaminated with dust, clean with compressed air or by washing (paragraph 3-4b).
- (f) If filter is contaminated with carbon, or oil deposits, replace filter element.
- (g) If filter element in the right air cleaner is contaminated with fuel:
 - (1) Replace filter element.
 - (2) Check for proper installation of fuel tank vent valve (paragraph 3-5).

Figure 3-3. Top loading filter element inspection.

(3) Side Loading Filter Element (Fig. 3-4).

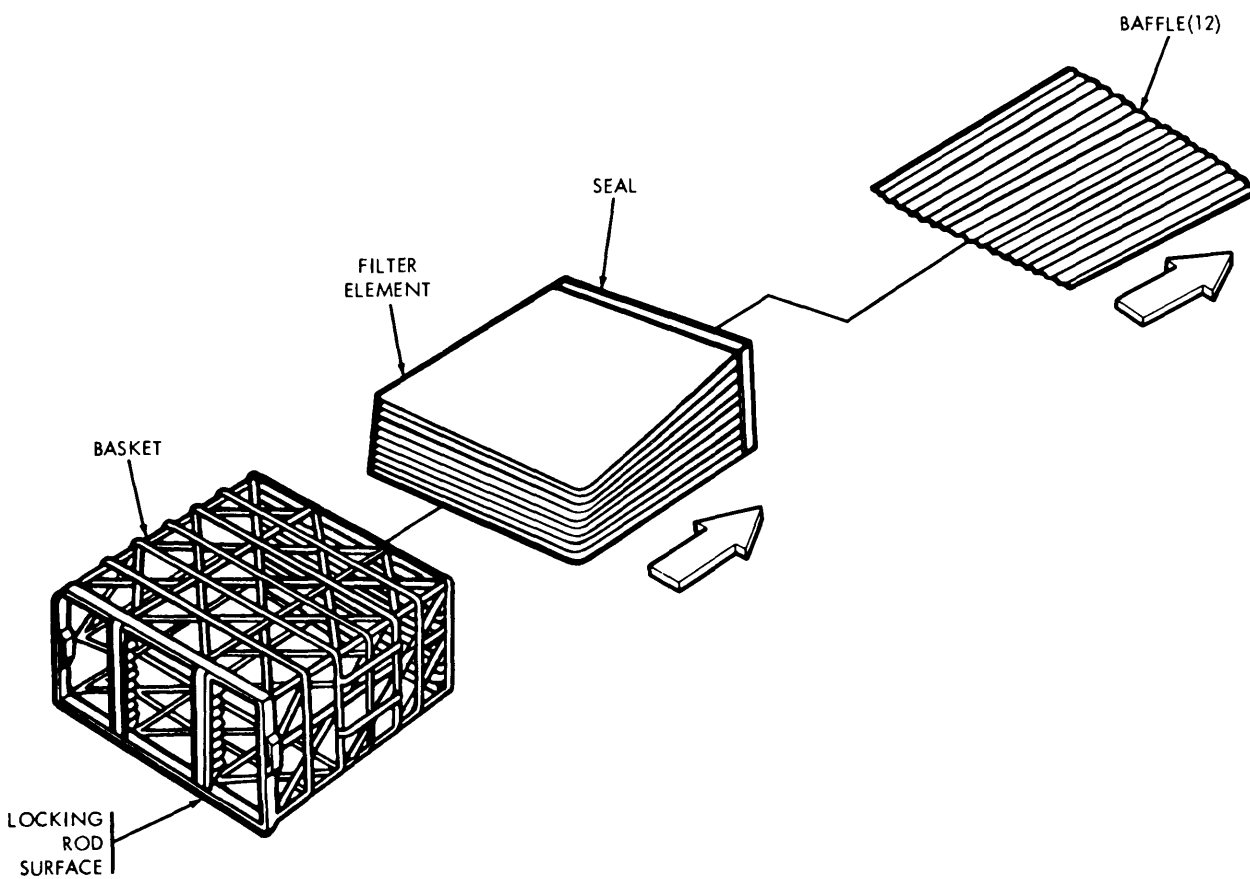


Figure 3-4. Side loading filter element inspection.

- (a) Check filter element seal for permanent indentation, excessive hardness, cracks, damage, or missing.
- (b) Disassemble filter element.

NOTE

It may be necessary to use pliers to remove top and bottom baffle. Be careful not to damage baffles.

1. Remove 12 baffles from inside of filter element.
 2. Remove filter element from basket.
- (c) Inspect baffles for cracks, bends, or broken out sections.
 - (d) Inspect filter element for holes or damaged seal.
 - (e) Inspect basket and locking rod surface for breaks or dents.

- (f) Replace any damaged or defective part.

CAUTION

Side loading element is to be cleaned with air only. Washing can damage the element.

- (g) If filter is contaminated with carbon, or oil deposit, replace element.
- (h) If filter element in right air cleaner is contaminated with fuel:
1. Replace filter element.
 2. Check for proper installation of fuel tank vent valve (paragraph 3-5).

b. *Cleaning (Fig. 3-5).*

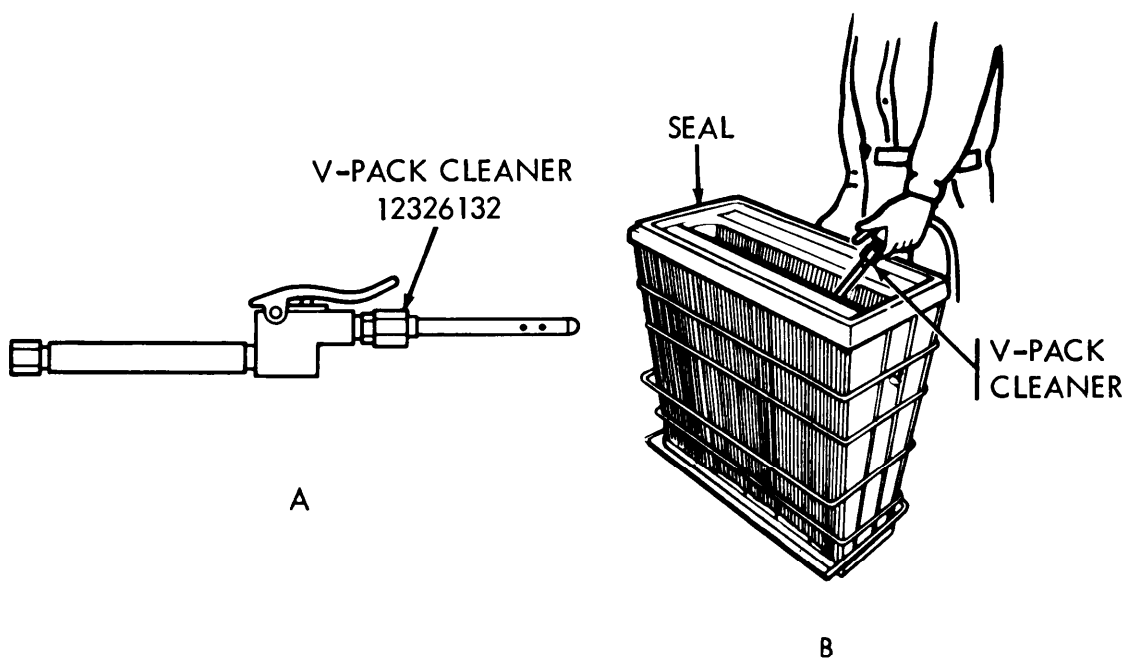


Figure 3-5. Air filter element compressed air cleaning.

(1) *Compressed Air.*

CAUTION

When shaking filter element; keep dust from inside pockets of element. Ensure that all creases and seams are free of dust, and never hit element against any surface.

- (a) Grasp filter element at sealing end and shake vigorously to shake out excessive dust.

WARNING

Compressed air used for cleaning purposes must not exceed 90 psi. Use only with effective chip guarding and personal protective equipment (goggles/shield, gloves, etc.).

- (b) Using V-pack cleaner (12326132) (view A), direct stream of compressed air against inside of filter element (view B).
 - (c) Move air stream up and down inside length of pleats or pocket until no dust is visibly being blown out.
 - (d) Inspect element before installing.
- (2) *Washing*

CAUTION

DO NOT wash side loading air cleaner filter. Damage to element will result.

CAUTION

Do not hit element against solid object. Do not steam clean. Do not use solvent. Damage to element will result.

- (a) Clean element using compressed air (para. 3-4b), before wetting filter element. Air must not exceed 90 psi.
 - (b) Prepare solution of warm water (80°F to 110°F) and detergent (see below) in container large enough to hold filter element (see para. (3) below).
 - Detergent, Liquid - NSN 7930-00-929-1220-50 lb. drum
 - Detergent, Liquid - NSN 7930-00-990-7391-25 lb. drum
 - Detergent, Liquid - NSN 7930-00-985-6904-20 oz. box
 - (c) Soak filter element in cleaning solution for 15 to 20 minutes, then gently shake it back and forth for 2 to 3 minutes to free dirt deposits.
 - (d) Rinse filter element with cool water (35°F to 80°F) until all traces of dirt and detergent are removed.
 - (e) If hose is used to rinse filter element, maximum line pressure of 40 psi should be used.
 - (f) Make sure filter element is completely dry before using.
 - (g) Air dry in a dust-free area at normal room temperature until filter element is completely dry. If circulating air is used, temperature must not exceed 160°F.
 - (h) Permanently mark filter to indicate date it was washed. Four washings should be considered the approximate life of an element.
 - (i) Inspect filter element before installing.
- (3) *Washing Vat Fabrication.*

NOTE

A suitable washing vat can be fabricated using the following suggested procedures:

- (a) Obtain a 55 gallon drum, approximately 23 inch diameter and 34 inch high.
- (b) Thoroughly clean out drum (steam clean).
- (c) Remove one end of drum (preferably the end with plugs in it). Minimum height of drum must be 23 inches.
- (d) Obtain a length of 5/8 or 3/4 inch water hose sufficient to cover cut edges of drum.
- (e) Split water hose lengthwise and position on cut edge of drum. This will prevent filter element damage from the cut edge.

3-5. Final Drive and Fuel Tank Vent Systems Inspection.

a. *Fuel Tank Vent System (Fig. 3-6).*

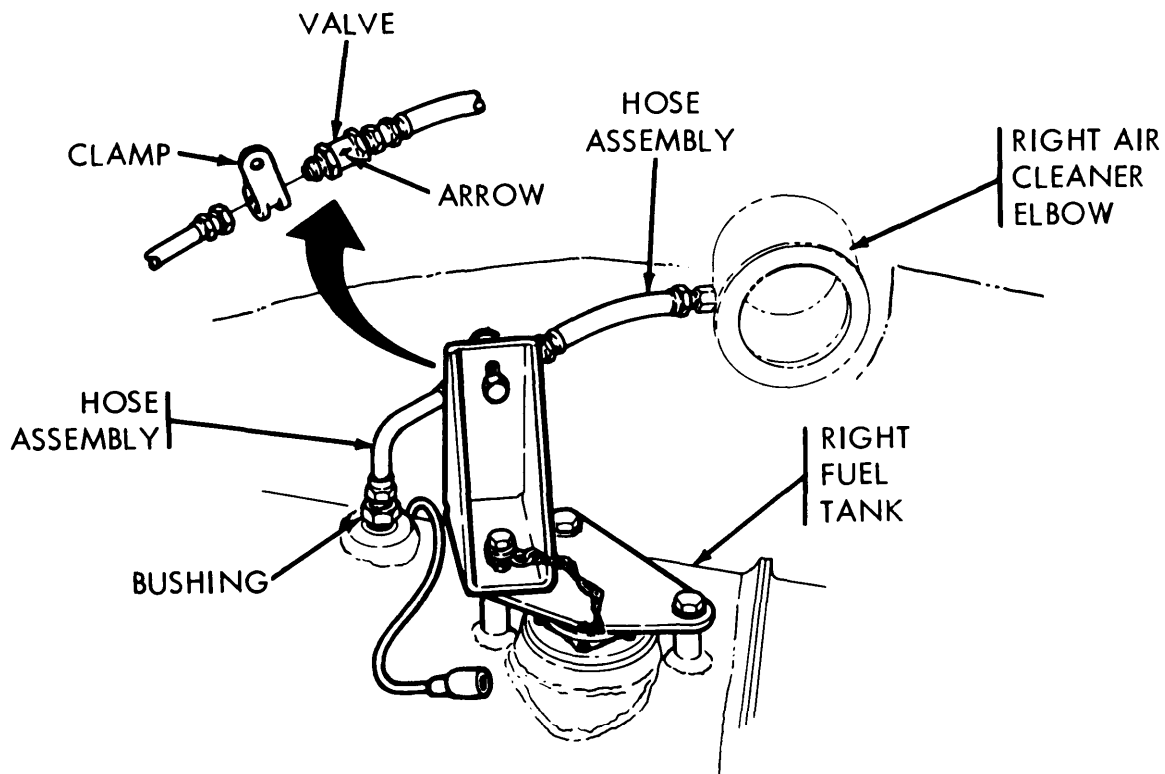


Figure 3-6. Fuel tank vent system inspection.

- (1) Open top grille doors to expose top of fuel tanks and air cleaner outlet elbows. Move to right side of vehicle.

NOTE

Two types of air cleaner outlet elbows may be found on M48/M60 series. Early model has no hole to accept fuel tank vent lines and late model has a hole to accept a vent line fitting.

- (2) Inspect fuel tank for pressure of vent line from fuel tank to air cleaner.
- (3) If vehicle is equipped with fuel tank to air cleaner vent system, go to step 4. If not, go to step 8.
- (4) Make sure valve arrow points toward right fuel tank. If installed incorrectly, fuel will enter the air cleaner. Reverse valve installation, if required.
- (5) Check hose assemblies for line pliability, deterioration and general serviceability. If any hoses are defective, replace (TM-20).
- (6) Inspect all fittings and connectors for cracks or other damage. Replace as necessary (TM-20).
- (7) Check for loose, broken or cracked clamps, brackets or bushings. Replace as necessary (TM-20). Go to step 10.
- (8) Check outlet elbow for plug (late model vent hole). Install replacement plug if missing.
- (9) Tighten pipe plug securely.
- (10) Close right side grille doors (TM-10).

b. Final Drive Vent System (Fig. 3-7).

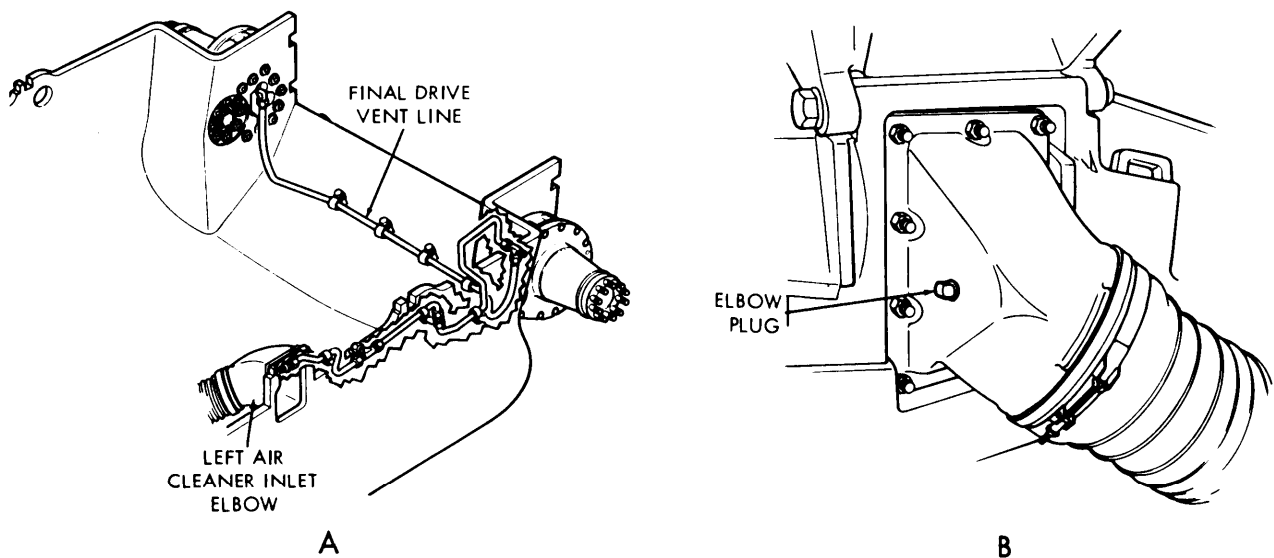


Figure 3-7. Final drive vent system inspection.

- (1) Move to left side of vehicle.
- (2) Inspect left air cleaner inlet elbow for presence of final drive vent line system (view A).
- (3) If vehicle is equipped with final drive vent system, go to step 4. If not equipped with final drive vent system, go to step 6.
- (4) Check all lines and fittings for cracks or other damage. Replace if necessary (TM-20).
- (5) Check fitting at inlet elbow for security. Go to step 7.
- (6) If vehicle is not equipped with final drive venting system, check elbow for plug (view B). Install replacement plug, if missing.
- (7) Close grille doors.

3-6. Air Cleaner Hoses Inspection and Replacement

a. Inspection.

- (1) Air Intake Hoses Inlet Screen to Air Cleaner) (Fig. 3-8).

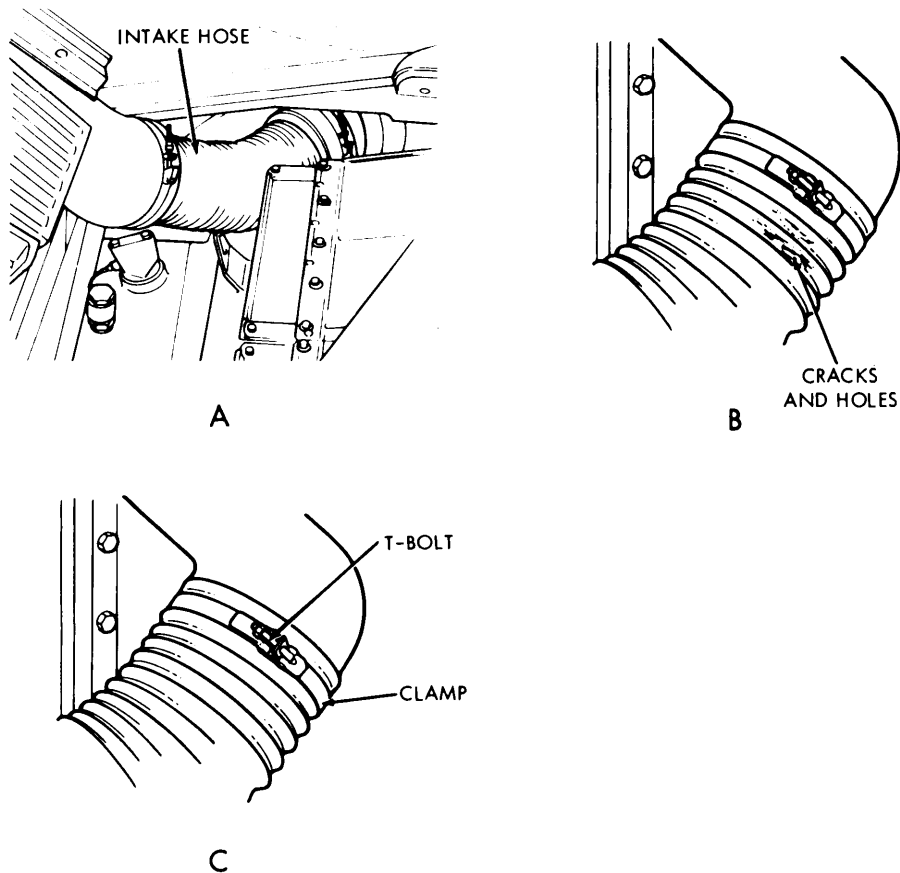


Figure 3-8. Air intake hoses inspection.

NOTE

Inspection of left and right intake hoses is the same.

- (a) Traverse turret so main gun points over left or right side of tank.
- (b) Open top grille doors.
- (c) Check intake hoses for misalignment (view A). A hose that appears too short may be misaligned. Align misaligned hoses.
- (d) Check intake hoses for holes or cracks (view B). Replace defective hoses. Refer to para. 3-6b.
- (e) Check for loose hose clamps (view C). Make sure hose is properly seated and clamps are positioned correctly. Tighten loose clamps.
- (f) Check flat band clamp and screw threads on T-bolt (view C). If clamps or threads are damaged or missing, replace clamp.

(2) *Air Outlet Hoses (Air Cleaner to Turbosupercharger).*

NOTE

If finger band clamps are installed, perform steps (a)1 thru (a)8. V-band clamps are installed, perform steps (b)1 thru (b)7. Inspection of left and right outlet hoses is the same.

(a) *Finger Band Clamps (Fig. 3-9).*

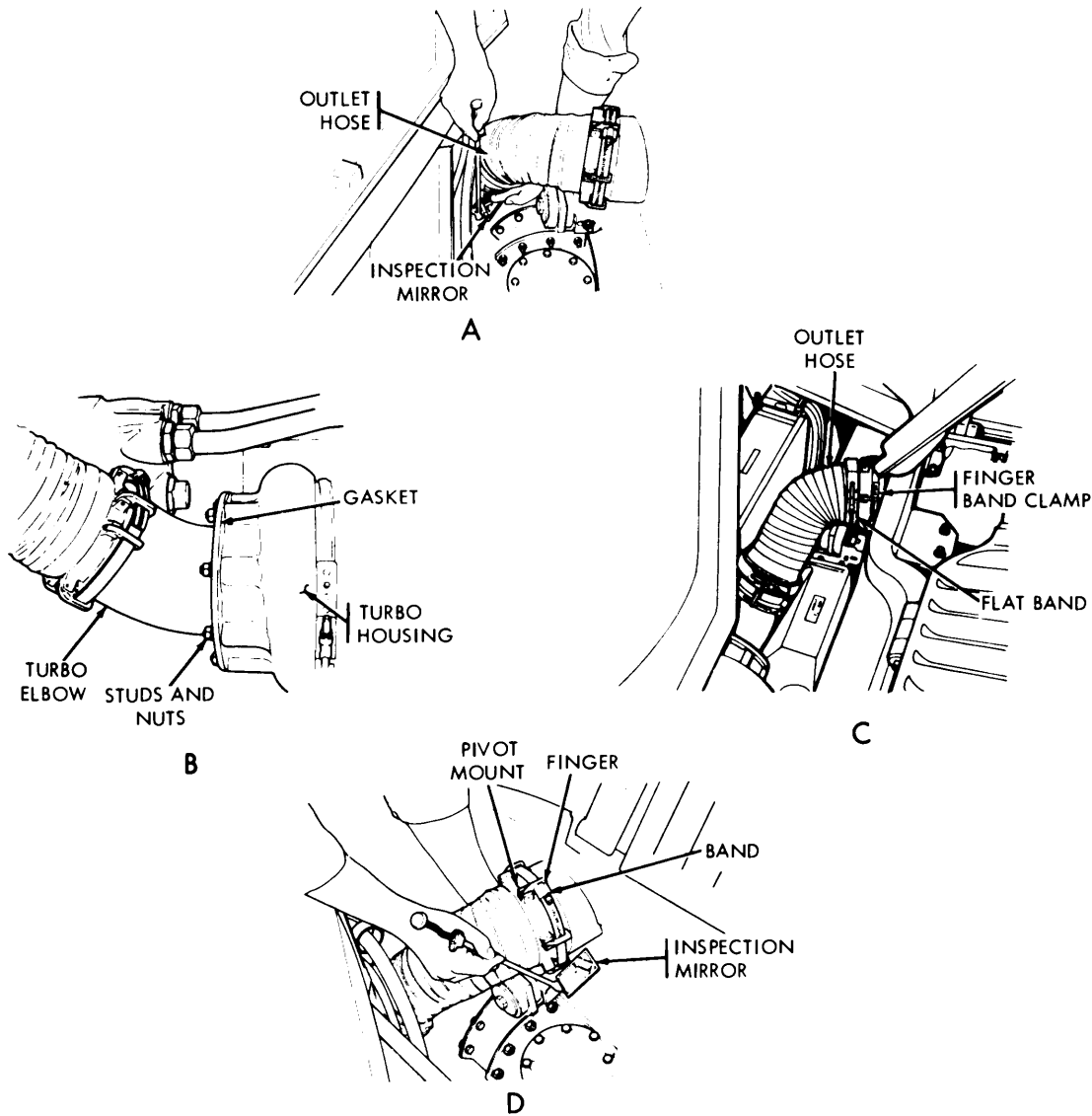


Figure 3-9. Air outlet hoses inspection (finger band clamp).

1. Open top deck grille doors (TM-10).
2. Inspect air cleaner outlet hose for damage (i.e., tears, punctures, sharp folds, hardness, or exposed support wire) (view A). An inspection mirror, McMaster Carr Co., model 1023T2 and flashlight are necessary, to view bottom of hose.
3. Feel hose with hands to detect any defects which may indicate damage or looseness. Replace defective hose. Refer to para. 3-6b.
4. Inspect outlet hose connection at engine turbo elbow (view B).

5. Check turbo elbow flange to ensure that all studs, and nuts are present, and tight (view B).
6. Check turbo elbow for gasket between turbo elbow, and turbo housing. Inspect gasket as much as possible looking for tears, folds, and missing pieces using an inspection mirror, and flashlight where necessary.
7. Inspect connection of outlet hose to outlet elbow (view C). Check that band clamp is installed. Inspect clamp for damage, or missing parts (i.e., bent, broken, or missing fingers, torn band, broken finger pivot mounts). Replace defective hose or clamp. Refer to para. 3-6b.
8. Verify that all fingers engage outlet elbow flange (view D). Use inspection mirror and flashlight to view bottom fingers. Grasp each finger individually, and attempt to move it side to side. Movement of any finger indicates a loose clamp. Tighten clamp if loose. Attempt to rotate flat band clamp, located on hose just behind finger band clamp. Any movement indicates a loose clamp. Tighten clamp if loose.

(b) V-Band Clamps (Fig. 3-10).

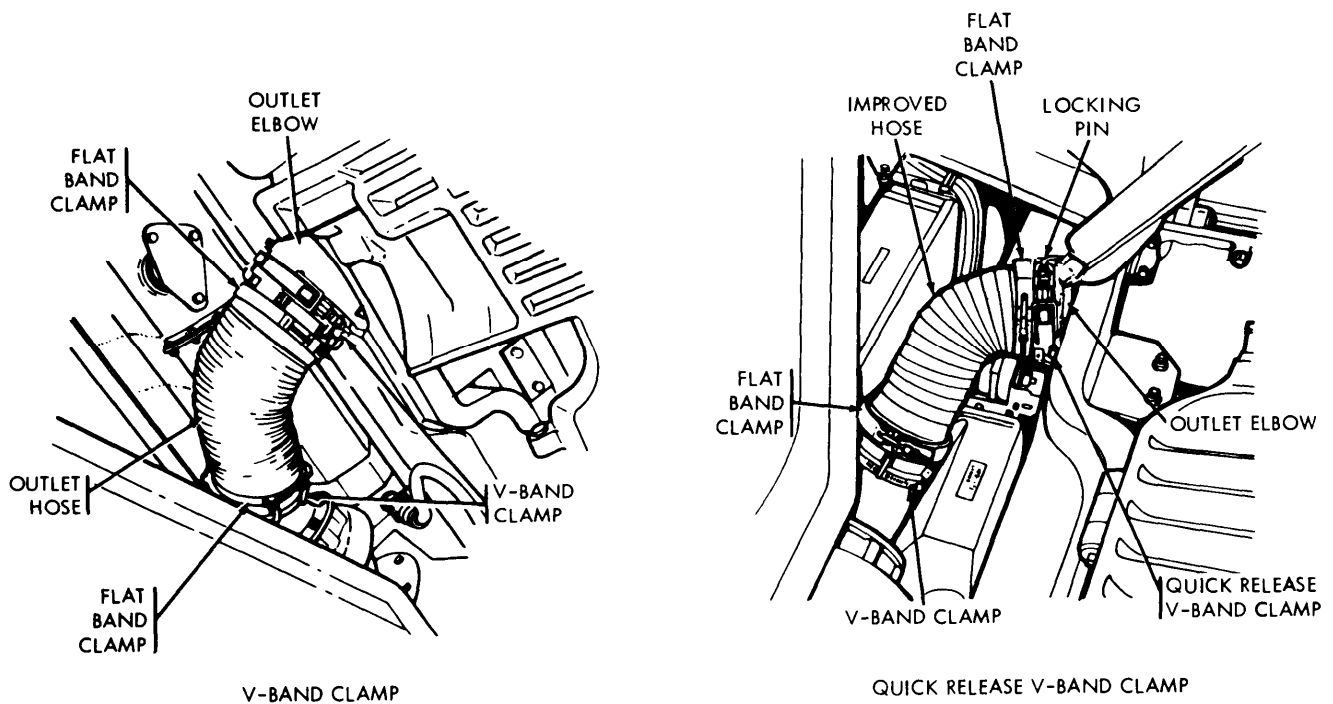


Figure 3-10. Air outlet hose inspection (V-band clamp).

NOTE

If V-band clamps, and V-band clamps with quick release handle are installed instead of the finger band clamps, perform steps 1 thru 7.

1. Inspect clamp for visual damage.
2. Make sure nut on adjustment screw is tight.
3. Check that quick release handle is down and secured with locking pin.
4. Grasp clamp and attempt to rotate it. Any movement indicates a loose clamp, tighten as necessary.
5. Grasp hose just behind hose flange, and attempt to move flange. Any movement indicates a loose clamp, tighten as necessary.
6. Check turbocharger inlet V-band clamp for split bands, bent or stripped T-bolts and damaged nuts. Replace defective clamp (NSN 5340-00-678-6178). Refer to para. 3-6b.
7. Check air cleaner outlet quick-release V-band clamp for split band, bent or stripped T-bolt, damaged nut or quick-release lever. Replace defective clamp (NSN 4730-01-132-9086). Refer to para. 3-6b.

b. *Replacement*

(1) *Intake Hose (Flat Band Clamp) (Fig. 3-11)*

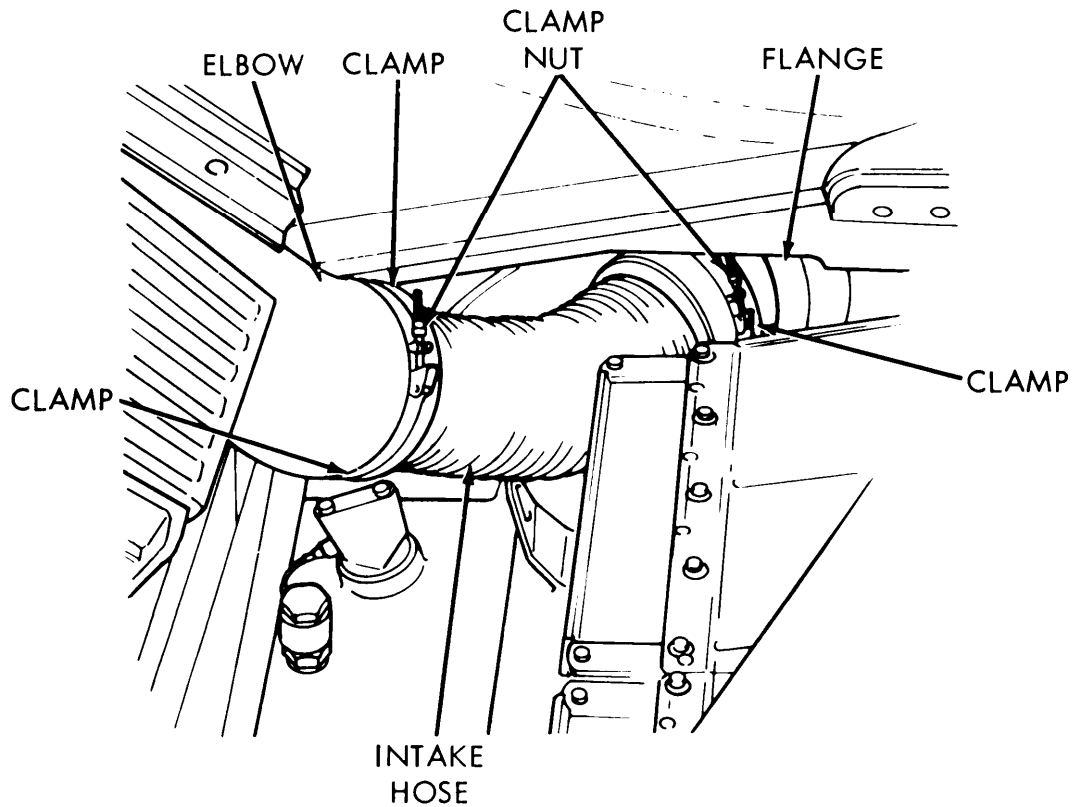


Figure 3-11. Air intake hose replacement.

- (a) Using 3/8 inch wrench, loosen clamp nut at each end of intake hose.
- (b) Slide clamp over intake hose.
- (c) Remove hose from elbow and flange (5).

- (d) Remove clamps from hose and throw hose away.
- (e) Obtain new hose - NSN 2940-00-678-4700 (part no. 8762783).
- (f) Loosely install one clamp at each end of hose.
- (g) Install hose on elbow and flange.
- (h) Slide clamps over elbow and flange.
- (i) Using 3/8 inch wrench, tighten clamp nuts.
- (j) Close top grille doors (TM-10).

(2) Outlet Hose (Finger Band Clamp) (Fig. 3-12).

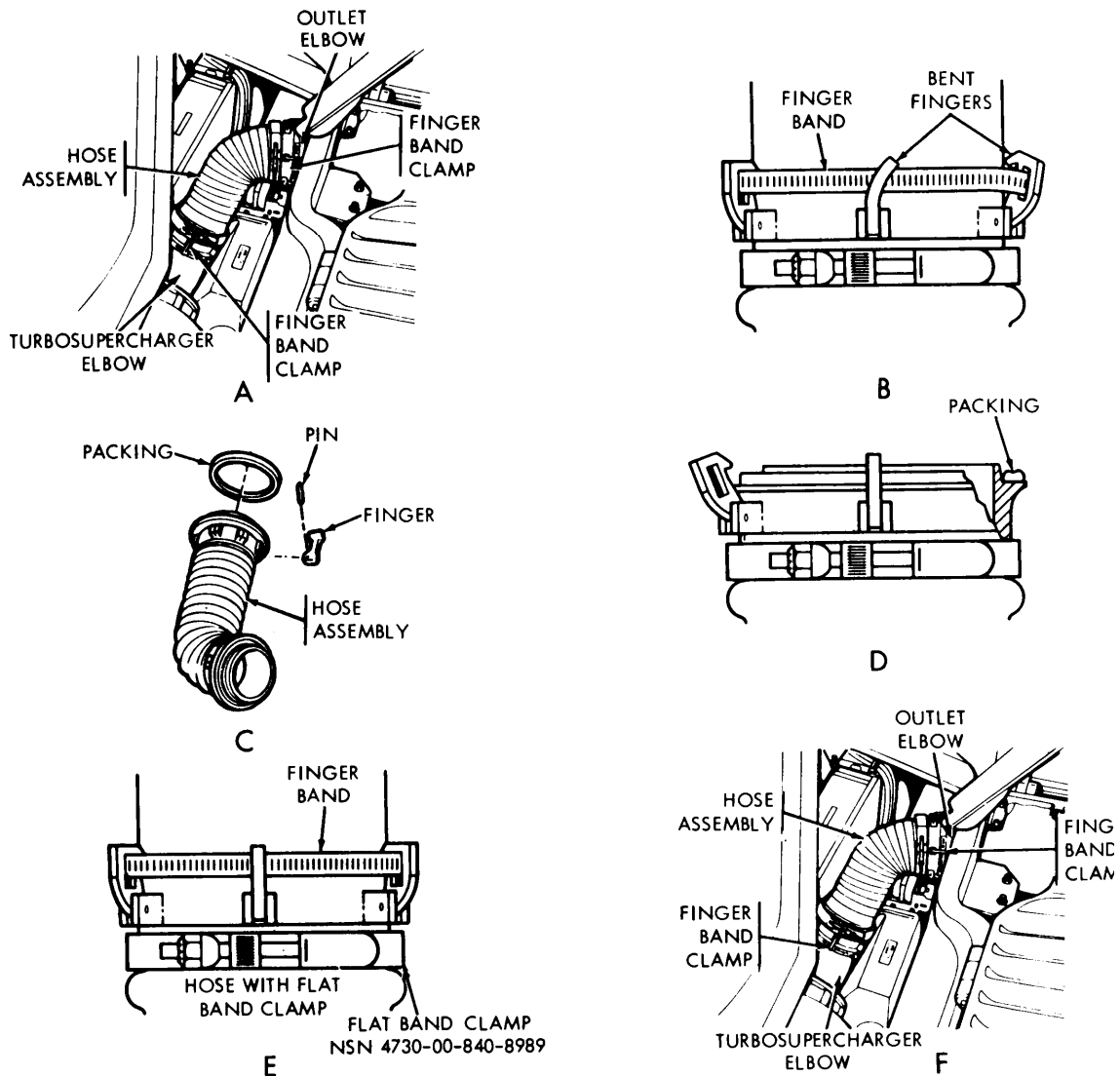


Figure 3-12. Air outlet hose replacement (finger band clamp).

- (a) Loosen two clamps (view A).
- (b) Remove hose assembly from air cleaner outlet elbow and turbosupercharger elbow.
- (c) Remove hose assembly.
- (d) Remove clamps from hose assembly.
- (e) Check hose assembly for damage or defective parts. If a hose or flange is unserviceable, replace hose assembly.
- (f) Make sure fingers are not bent (view B). If any are bent, replace as follows:
 - 1. Using a hammer and punch, drive out pin holding finger in place (view C).
 - 2. Position new finger - NSN 2940-00-614-9007 part no. 1655238) - on hose assembly.
 - 3. Using pliers, install new pin - NSN 5315-00-058-9780 (part no. MS16562-235) - securing finger to hose assembly.
 - 4. Using hammer, tap pin into place.
- (g) Check preformed packing (view D). If it is cracked, loose, or dried out, replace as follows:
 - 1. Remove defective packing and clean away old adhesive.
 - 2. Apply adhesive MIL-SPEC-MMM-A-1617, Type II - NSN 8040-00-152-0063 (2.5 oz. can) or NSN 8040-00-152-0067 (6 oz. can) - in groove of hose assembly flange.
 - 3. Install new packing - NSN 5330-00-729-5049 (part no. 10870861).
- (h) Check metal flange ends for bonding to hose. If bonding is loose, replace hose assembly.
- (i) Check finger band clamp for damage (view D). If damaged, replace clamp - NSN 4730-00-908-6294 (part no. MS35842-16).
- (j) Check new flat band clamp, make sure it is properly installed. If it is not, loosen, apply a light coat of lubricant (silicone grease MIL-G-46886) to area of hose where clamp will be installed, install clamp and tighten securely.
- (k) Thread finger band clamp through slots in fingers (view E).
- (l) Position one end of hose assembly on air cleaner outlet elbow and other end on turbosupercharger elbow (view F).
- (m) Make sure fingers grip lips of elbows by feeling under hose.
- (n) Using screwdriver, tighten clamps securely.

(o) Close top grille doors (TM-10).

(3) Outlet Hose (V-Band Clamp) (Fig. 3-13).

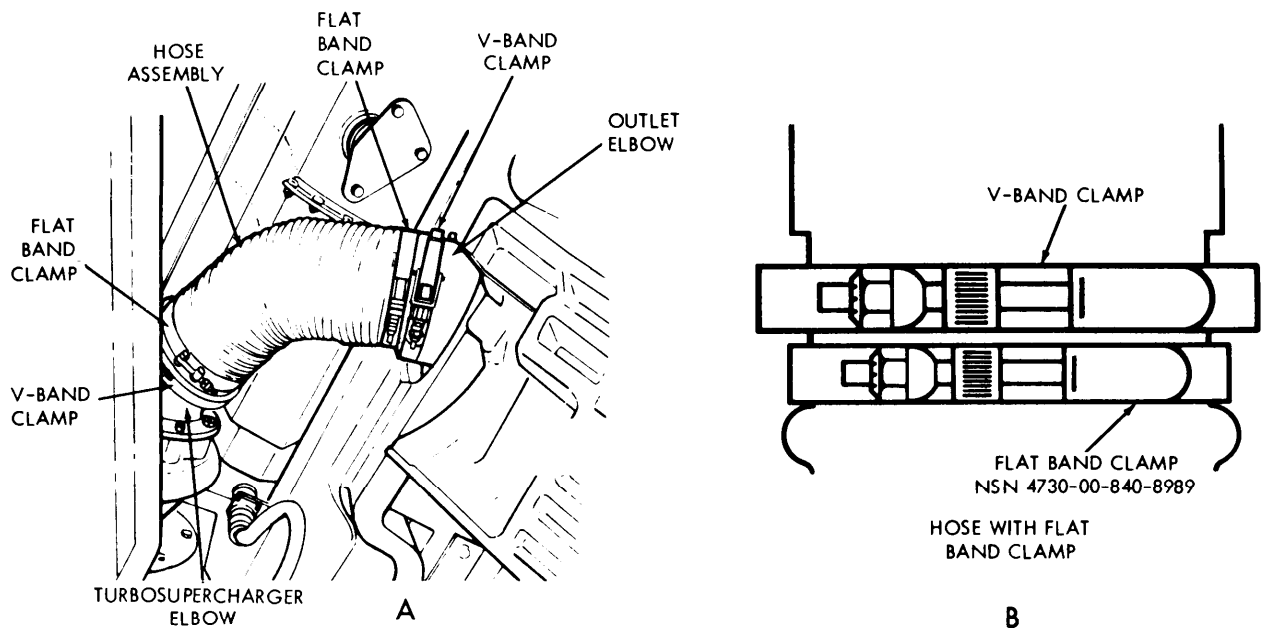


Figure 3-13. Air outlet hose replacement (V-band clamp).

- (a) Loosen hose clamps (view A).
- (b) Remove clamps from hose.
- (c) Remove hose from elbows.
- (d) Inspect hose packing. If it is cracked, loose or dry, replace as follows:
 1. Remove packing and clean away adhesive.
 2. Apply adhesive, MIL-SPEC MMM-A-1617, Type II - NSN 8040-00-152-0063 (2.5 oz. can) or NSN 8040-00-152-0067 (6 oz. can) - in groove of hose assembly flange.
 3. Install new packing - NSN 5330-00-729-5049 (part no. 10870861).
- (e) Check metal flange ends for bonding to hose. If bonding is loose, replace hose assembly.
- (f) Check V-band clamps for split bands (view B) bent or stripped T-bolts, and damaged nuts. Replace defective clamp NSN 5340-00-678-6178 (part no. 8711310). Turbocharger end, NSN 4730-01-132-9086, PN 01-1000 outlet end.
- (g) Check flat band clamp for proper installation. If not installed properly, loosen and apply a light coat of lubricant (silicone grease MIL-G-46886) to the area of hose where clamp will be installed, install clamp and tighten securely.

- (h) Position hose between elbows, with curved end of hose toward outlet elbow. Adjust position for minimum strain on hose.
- (i) Position hose flange (curved end) against flange on outlet elbow.
- (j) Install and tighten clamp.
- (k) Position flange on other end of hose against turbosupercharger elbow.
- (l) Install and tighten clamp.
- (m) Close top grille doors (TM-10).

(4) *Outlet Hose (Quick-Release V-Band Clamp) (Fig. 3-14).*

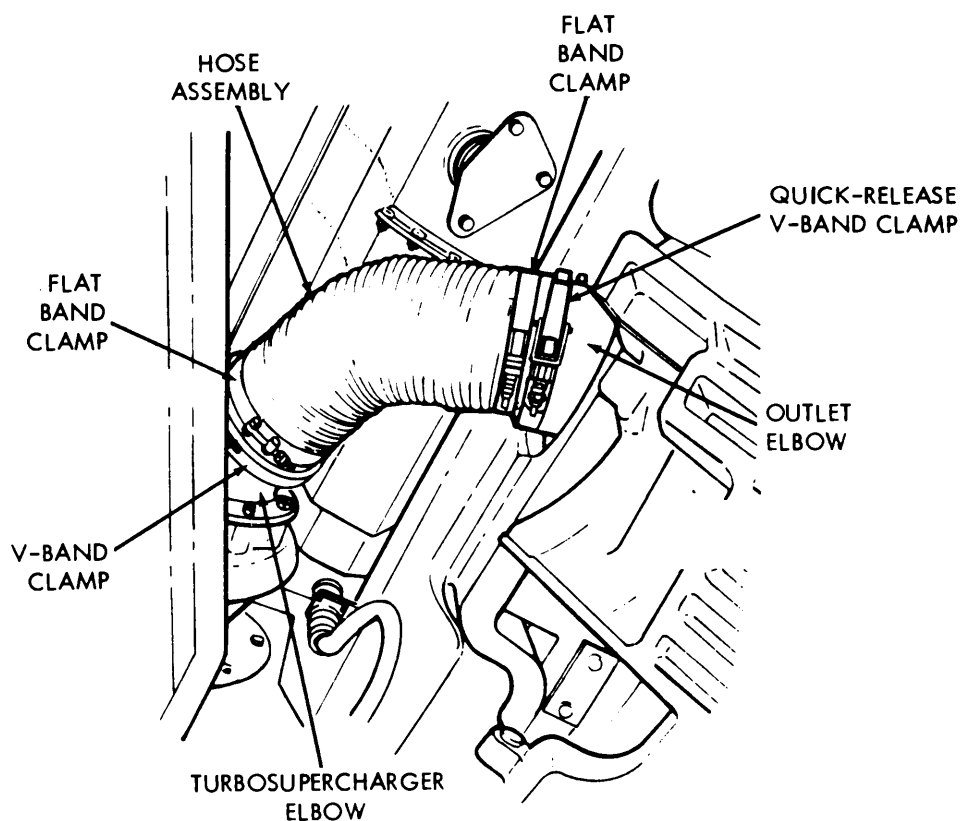


Figure 3-14. Air outlet hose replacement (quick release v-band clamp).

- (a) Using wrench, loosen clamp.
- (b) Pull pin and release clamp.

- (c) Disconnect hose assembly from outlet elbow of air cleaner and elbow of turbocharger.
- (d) Position one end of hose assembly onto outlet elbow and other end over turbosupercharger elbow.
- (e) Tighten T-bolt nut to eliminate all clearance between T-bolt and clamp. Tighten T-bolt one additional turn. This will apply approximately 8-12 lb-in torque.
- (f) Using wrench, tighten clamp.
- (g) Close quick release clamp and install pin.
- (h) Close top deck grille doors TM-10.

3-7. Army Oil Analysis Program

a. General.

- (1) The Army Oil Analysis Program is part of a DOD-wide effort to detect impending equipment component failures and lubricant condition through periodic analysis of oil samples.
- (2) Oil analysis helps determine the internal condition of engines, gearboxes, transmissions, and other oil-lubricated system and components. Your tank is included in the program.
- (3) Just like a doctor checks your blood for diseases, your expert Army laboratory technicians analyze your oil sample to tell you what is going on inside your engine and the condition of your oil.

b. Purpose.

- (1) To detect potential component failure.
- (2) To reduce maintenance costs through preventive maintenance - prior to major repair.
- (3) To develop a data bank relating to component wear or failure.

c. Procedures.

Refer to TB 43-0211.

NOTE

Be sure to identify each oil sample with the engine serial number and tank serial number.

CHAPTER 4
RELIABILITY IMPROVEMENTS

4-1. General.

Material in this chapter describes improvements to the air induction system. Much of this information has or will be issued as MWOs, or retrofit instructions. This information will be included in future changes or revisions to technical manuals. Table 4-1 lists the improvements, reference to procedures, and the lowest maintenance level authorized to perform them.

Table 4-1. Reliability Improvements

| Reliability Improvements | Maintenance Level | Paragraph Reference |
|--|-------------------|---------------------|
| Rework of Top Loading Air Cleaner Access Door Bolt Holes | Org. | 4-2 |
| Top Loading Air Cleaner Captive Screw Replacement | Org. | 4-3 |
| Installation of Late Model Air Filter Clog Indicator | Org. | 4-4 |
| Armored Air Cleaner Mounting Bolt Replacement | Org. | 4-5 |
| Improved V-Band Hose Clamp and Torque Specifications | Org. | 4-6 |
| Improved Spring Loaded Air Filter | Org. | 4-7 |
| Ground Hop Kit | Org. | 4-8 |
| Retrofit of Aluminum Side or Top Loading to Armored Top Loading Air Cleaner | GS/DS | 4-9 |
| Rework of Grille Door Hinge | GS/DS | 4-10 |
| Housing Screw Hole Repair (Access Door Screw) Housing Vertical Guide Bar Rework | GS/DS | 4-11 |

4-2. Top Loading Air Cleaner Access Door Bolt Holes Rework

a. General

The three (3) screw holes located on top of the top loading air cleaners (Fig. 4-1) which secure the access door are required to be drilled completely through. If they are not, dirt settles in the screw holes and the screws bottom out before tight, resulting in not obtaining a good seal between the access door and the air cleaner. Secondly, damage to both the screw and screw hole can occur.

b. Inspection.

Check access door bolts and bolt threads (Fig. 4-1). Ensure bolt threads and threads in holes are not stripped. If stripped, replace bolts and/or re-tap bolt holes. Clean bolt holes by removing all accumulated sand, dirt, or debris. Check all three threaded bolt holes to ensure the holes have not been drilled through. If the bolt holes have been drilled through, disregard this rework procedure. If they have not been drilled through, proceed with the rework procedure.

c. Rework Procedure.

(1) Tools Required

(a) Electric Drill Motor (1/4 or 3/8 inch chuck)

(b) No. 12 High Speed Drill Bit

(2) Fabricated Tools

(a) Fabricate drill guide (fig. 4-2)

(b) Fabricate drill stop (fig. 4-3)

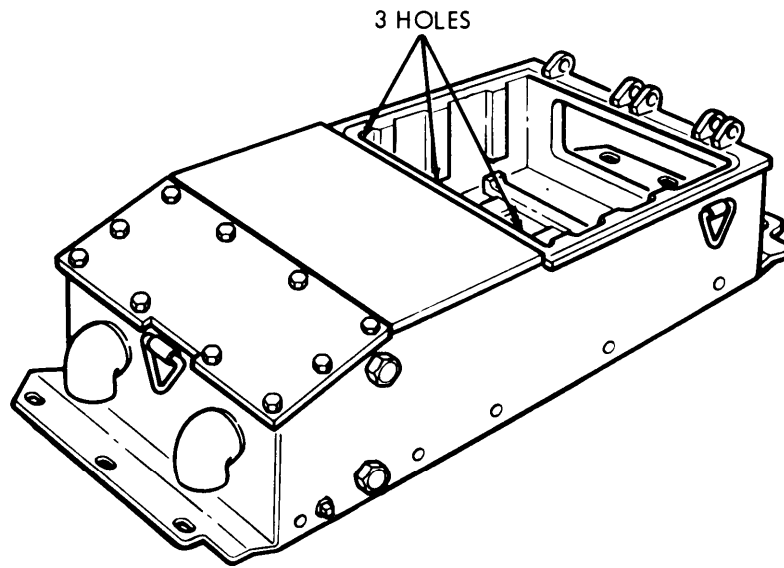


Figure 4-1. Air cleaner access door bolt holes.

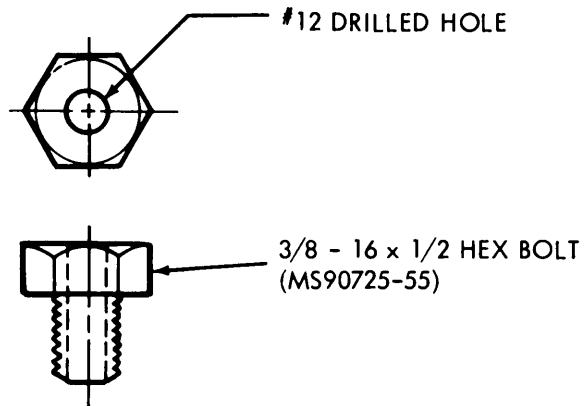


Figure 4-2. Drill guide fabrication

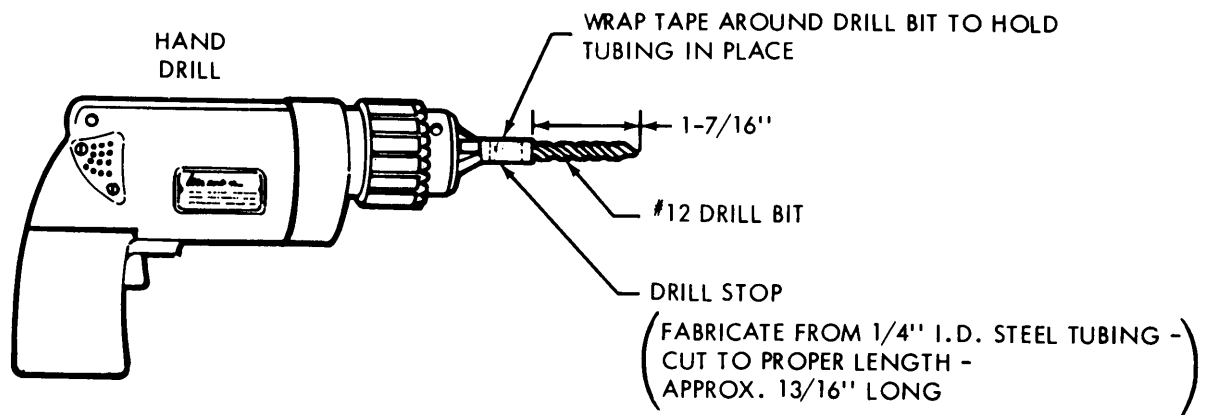


Figure 4-3. Drill stop fabrication.

(3) Procedure (Fig. 4-4).

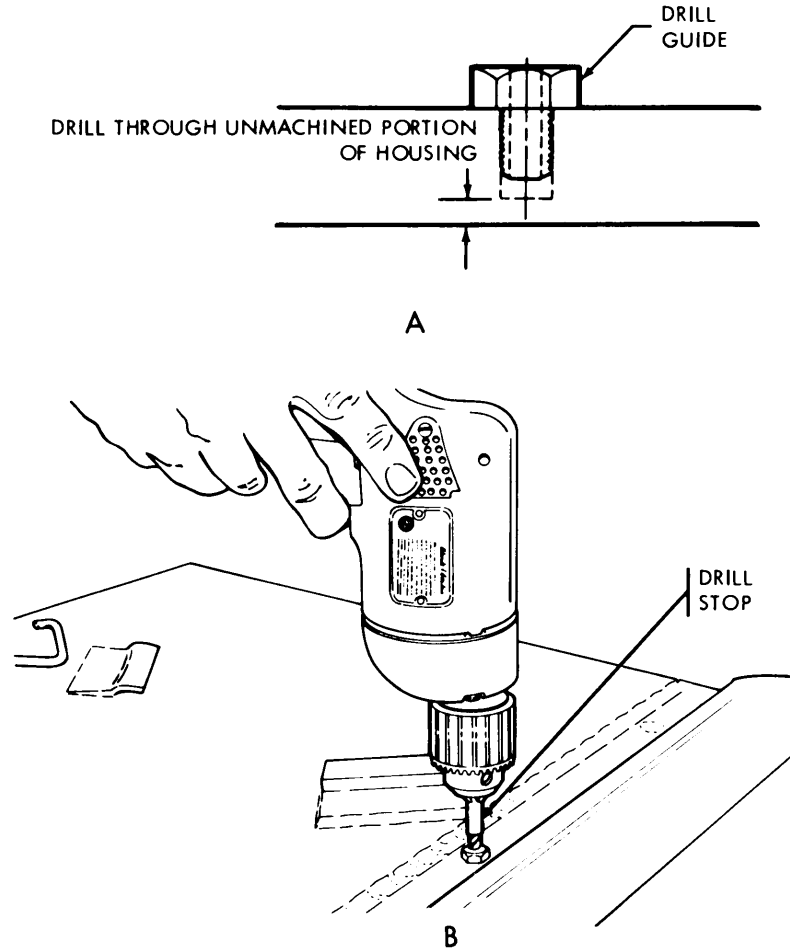


Figure 4-4. Top loading air cleaner access door bolt holes rework.

- (a) Remove air cleaner filter element (para. 3-2a).
- (b) Cover housing opening with tape and cardboard or a large cloth to prevent metal chips and dirt from entering the filter area.
- (c) Install fabricated drill guide in bolt hole (view A).
- (d) Place fabricated drill stop on a No. 12 drill bit to limit depth to 1-7/16 inch. Wrap tape around bit to hold stop in place (Fig. 4-3).

CAUTION

Do not drill hole through without drill stop installed or damage to air cleaner precleaned tubes will result.

- (e) Using a hand drill with the No. 12 drill bit and stop, carefully drill through incompletely machined portion of hole (view B).

- (f) Drill remaining bolt holes using same procedure as described above.
- (g) Using compressed air, clean all metal chips from bolt holes.
- (h) Install air filter element (para. 3-2a).
- (i) Repeat procedure on opposite air cleaner.

4-3. Top Loading Air Cleaner Captive Screw Replacement

a. General.

Field reports indicate that some captive screws which are attached to armor top loading air cleaner access doors are being stripped, damaged and/or are missing. When this situation occurs, dirt/dust can enter directly into air cleaners which could result in damage to the engine.

NOTE

If bolt holes in housing are stripped, notify direct support for repair of holes. If holes are not stripped, proceed with replacement procedures.

b. Procedure.

(1) Tools and Materials Required

- (a) Hammer, hand: 1 lb. 5120-00-061-8543
- (b) Punch, drive pin: 3/4 in. 5120-00-239-0038
- (c) Wrench, combination box open end: 9/16 in. 5120-00-228-9507
- (d) Tape, masking
- (e) Cloth or cardboard (used to cover housing opening)
- (f) Wood, 2 in. x 4 in. x 18 in. long
- (g) Screws (per air cleaner) PN 12290914 (3 required)
- (h) Punch, center 5120-00-293-3509

(2) Procedure (Fig. 4-5).

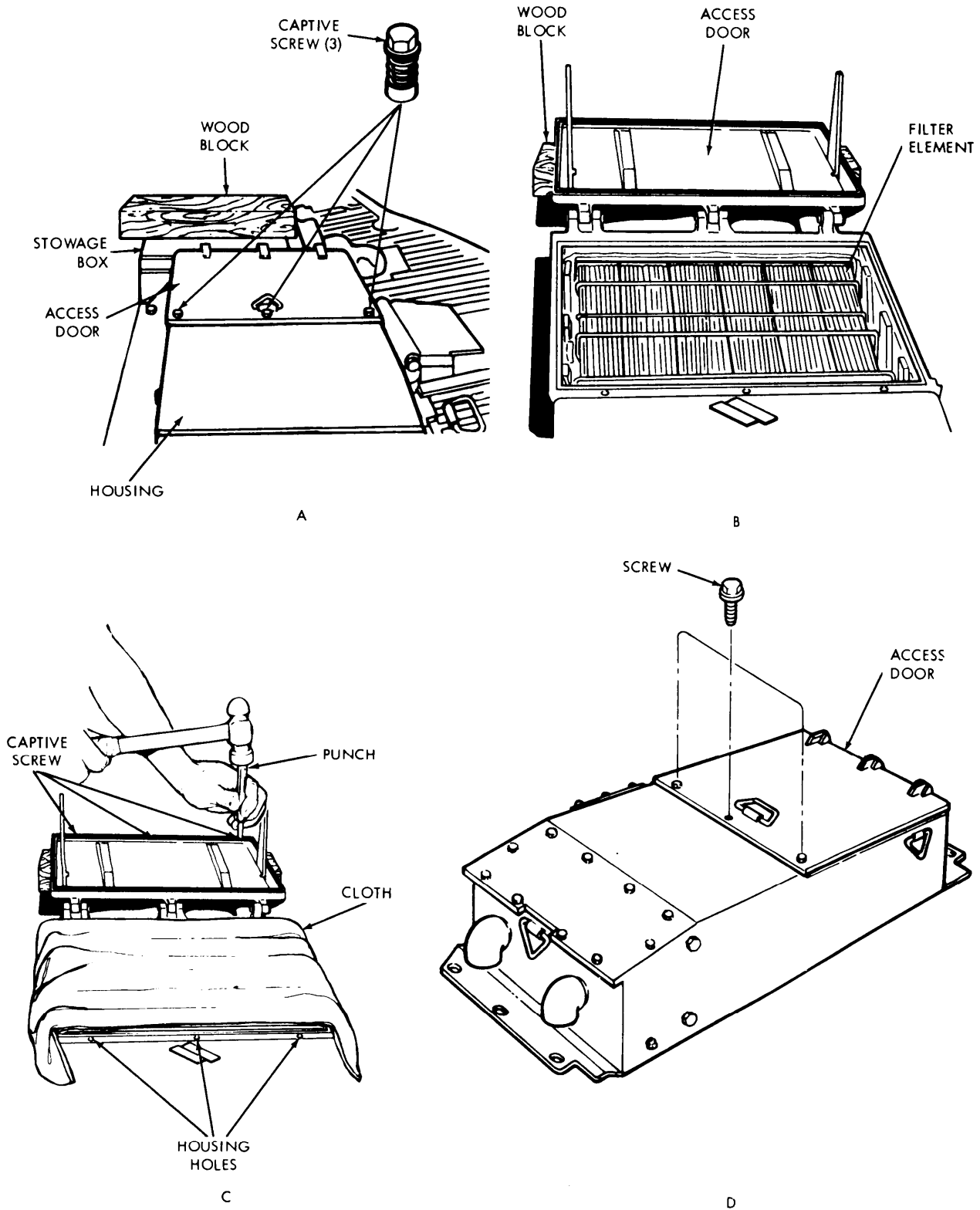


Figure 4-5. Top loading air cleaner captive screw replacement.

- (a) Using 9/16 wrench, loosen remaining captive screws securing access door to housing (view A).
- (b) Position a block (2 x 4 x 18) of wood across fender storage box so access door will rest on block of wood when door is opened.
- (c) Open access door allowing it to rest firmly against block of wood. Block must be positioned to inside of captive screw(s) (view B).
- (d) Remove filter element, cover, and store temporarily in a safe place.
- (e) Using tape and cardboard or a large cloth, cover housing opening (so dirt cannot fall into box). (Do not cover housing bolt holes.)
- (f) Using a hammer and punch drive pin, drive out damaged captive screw(s) (view C).
- (g) Remove tape, cardboard or cloth from housing opening. Using a damp clean rag, wipe inside of filter housing removing any dirt or metal chips.
- (h) Install filter element, make sure all seals and gaskets are in place. Carefully close access door (view B).

CAUTION

It may be necessary for mechanic to kneel on access door to start screws. Make sure screws are fully engaged before releasing weight from access door or hole threads will be stripped.

- (i) Install three new screws PN 12290914, NSN 5306-01-091-3384 in access door and finger tighten (view D). Using torque wrench, tighten three screws, starting with middle, to 40-48 lb-ft (54-65 N·M).
- (j) Repeat procedure for opposite air cleaner.

4-4. Air Cleaner Filter Clog Indicator Rework

a. General.

The following procedures to rework the air cleaner outlet elbow to accept the late model filter clog indicator.

b. Rework Procedure.

(1) Tools and Equipment Required:

- (a) Hacksaw
- (b) Scribe
- (c) 1/8 - 27 NPTF tap
- (d) Electric drill with a 90° drive angle with a 3/8 inch chuck

- (e) Size "R" drill bit (0.339)
- (f) 1/8 inch drill bit
- (g) Hand driven metal stamping die set
- (h) 1. Number set NSN 5110-00-289-004
2. Letter set NSN 5110-00-289-0008
- (h) Arc welding machine
- (i) Shield holding fixture (fabricated by Direct Support Maintenance) (fig. 4-6).

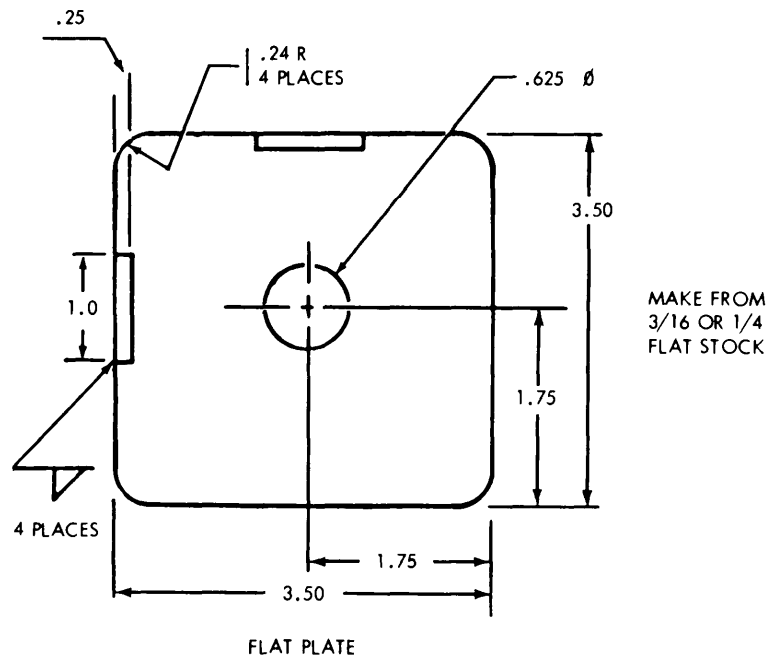
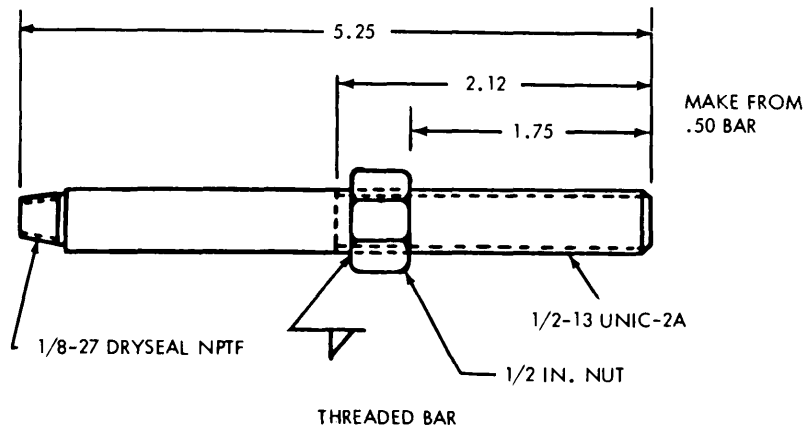


Figure 4-6. Shield holding fixture fabrication.

(2) *Supplies Required:*

- (a) Filter clog indicator (11669717)
- (b) Clean rags
- (c) Thread cutting oil
- (d) Dry cleaning solvent
- (e) Welding electrode MIL-E-13080
- (f) Primer paint TT-P-1757
- (g) Forest green enamel paint MIL-E-798
- (h) Shield and plug assembly, (fabricated by Direct Support Maintenance) (figs. 4-7 and 4-8).

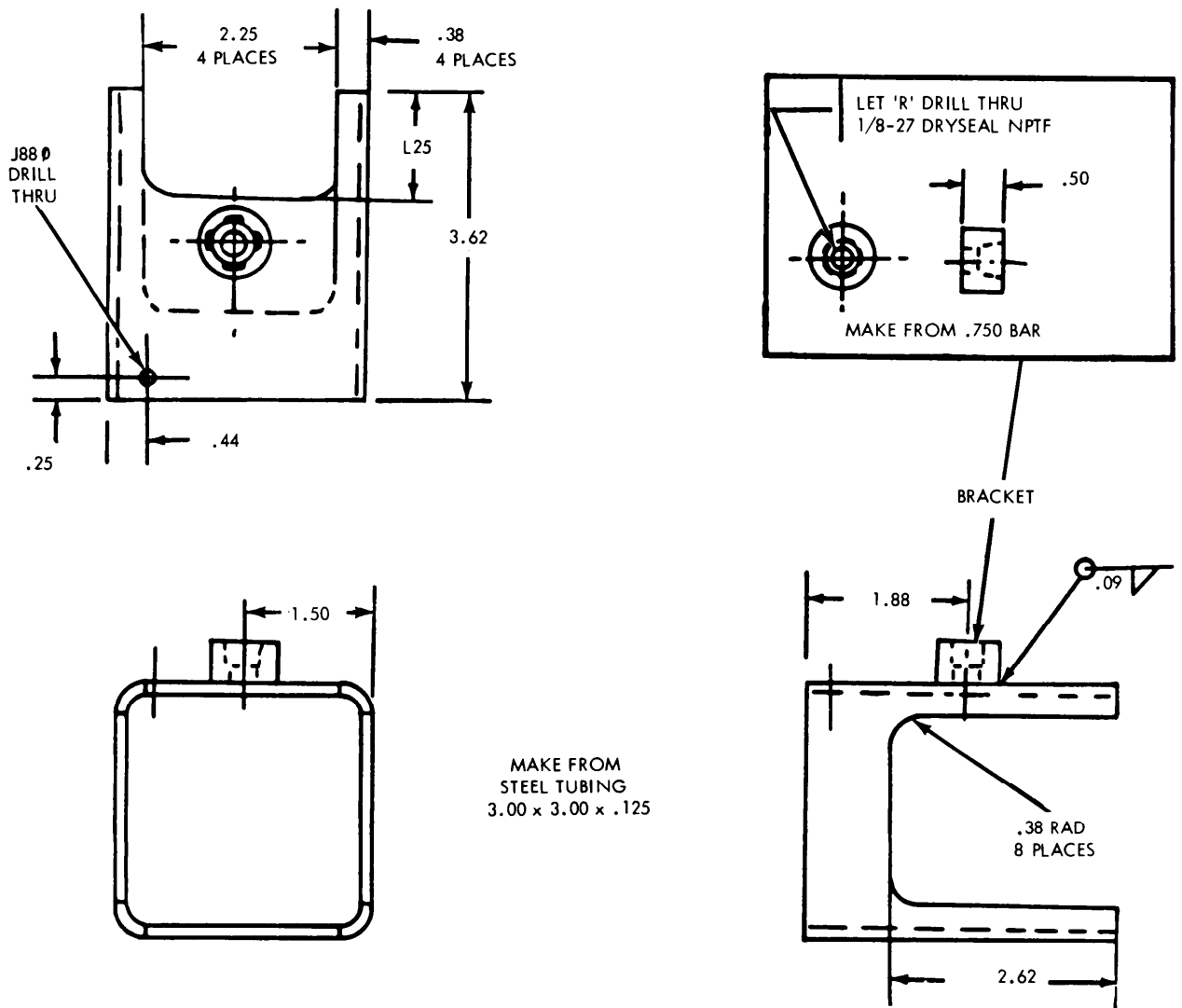


Figure 4-7. Filter clog indicator shield fabrication.

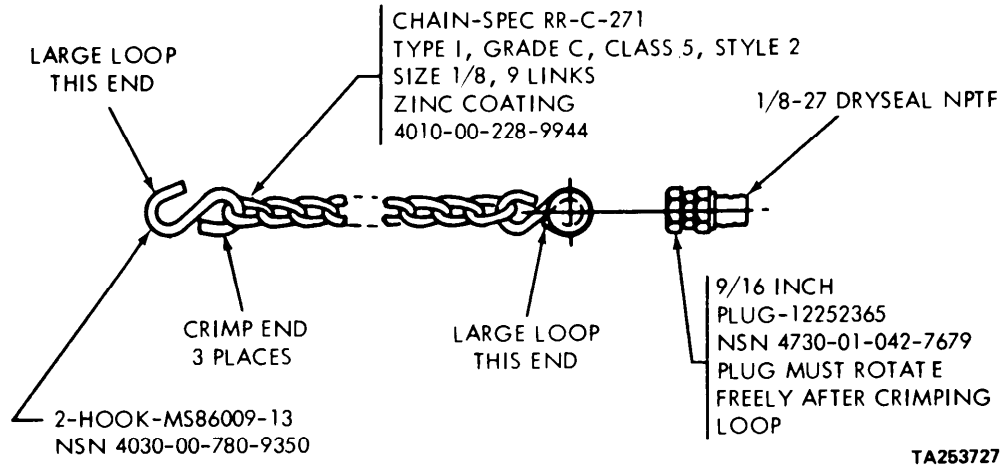


Figure 4-8. Chain and plug assembly fabrication.

(3) Procedure (Fig. 4-9).

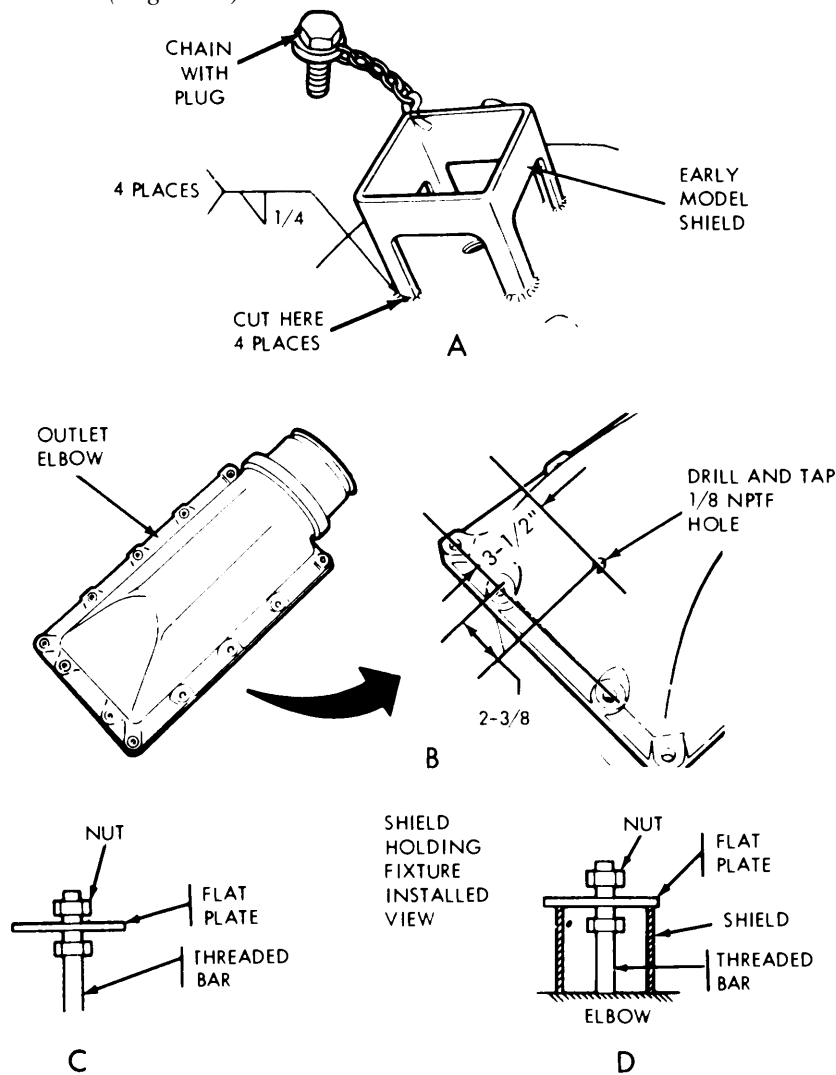
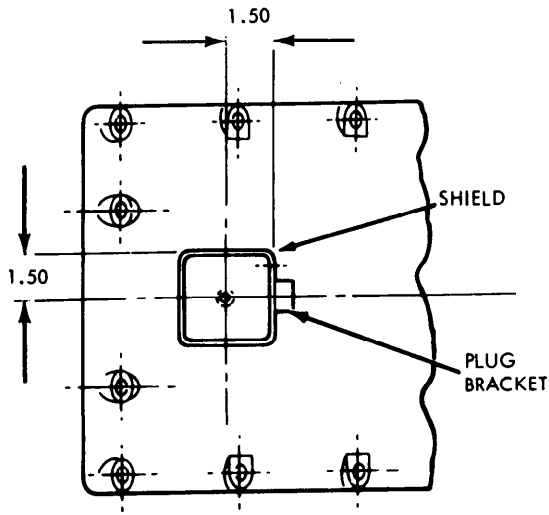
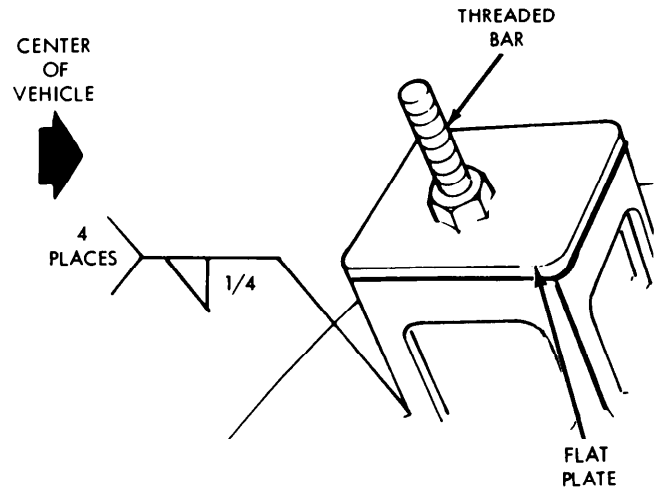


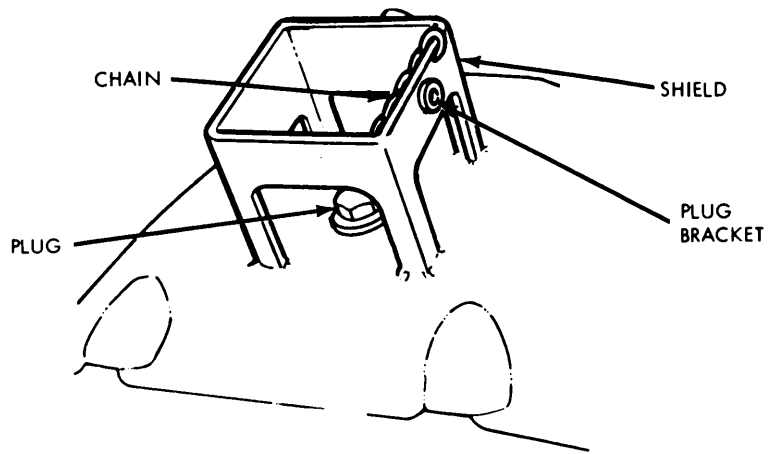
Figure 4-9. Air cleaner filter clog indicator rework (sheet 1 of 2).



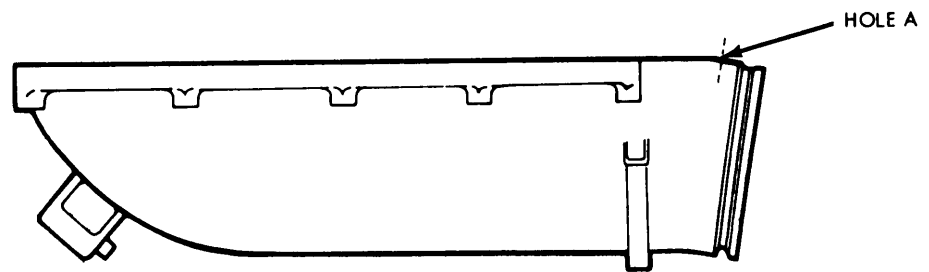
E



F



G



H

Figure 4-9. Air cleaner filter clog indicator rework (sheet 2 of 2).

- (a) Remove air cleaner filter element (para. 3-2).
- (b) Seal elbow outlet with clean rags and close access door.

NOTE

If vehicle is not equipped with a filter clog indicator and shield, go to step (g). If the vehicle is equipped with early model restriction indicator and shield, go to step (c).

- (c) Remove restriction indicator (TM-20).
- (d) Using a hacksaw, cut shield from elbow at four joining places (view A).
- (e) Remove chain with plug.

NOTE

Retain chain and plug for installation on late model shield.

- (f) Go to step (g).
- (g) Using a scribe and 6 inch steel rule, inscribe lines as shown (view B).
- (h) Using a center punch and ball peen hammer, punch center of two lines.

NOTE

Use cutting oil when drilling.

- (i) Using 1/8 inch drill bit, drill pilot hole.
- (j) Using "R" drill bit, drill through outlet elbow.

NOTE

Use cutting oil to reduce thread spalling and top breakage.

- (k) Using 1/8 - 27 NPTF tap, thread hole.
- (l) Using rags and dry cleaning solvent, clean oil from surface.
- (m) Go to step (n).
- (n) Assemble shield holding fixture (view C).
- (o) Position shield and holding fixture (view D) on elbow so that shield is centered over hole and bracket points toward the center of vehicle (view E).
- (p) Using a 1/2 inch box or open end wrench, tighten down nut on threaded bar so flat plate will hold shield in place (view F).
- (q) Using arc welding machine with welding electrode, weld shield in place in accordance with TM 9-237.
- (r) Remove shield holding fixture.
- (s) Install plug in elbow hole and crimp chain to hole in shield (view G).

- (t) Line out or X out elbow part number.
- (u) Using hand driven metal stamping die set and hammer:
 - 1. Apply part number 12304178-1 (LT) to elbows with hole A (view H).
 - 2. Elbows with hole A apply part number 12304178-2 (RT).
- (v) Using primer, paint all bare metal areas.
- (w) Using enamel, paint over primed areas.
- (x) Remove plug from tapped hole and install into plug bracket (View G).
- (y) Install filter clog indicator.

NOTE

If late model filter clog indicator is not available, install early model restriction indicator.

- (z) Install filter element (para 3-2a).

4-5. Armored Air Cleaner Mounting Bolt Replacement

a. *General.*

Recent field reports indicate the 3/8 inch mounting bolts for the armored air cleaner are shearing off, causing unscheduled maintenance and vehicle deadlining. To correct this problem, a 5/8 inch mounting bolt is being released for installation in the field. This procedure is applicable to both the left and right armored air cleaners and provides instructions to the field to accomplish removal of the 3/8 inch mounting bolts and installation of 5/8 inch mounting bolts.

b. *Replacement Procedures (Fig. 4-10).*

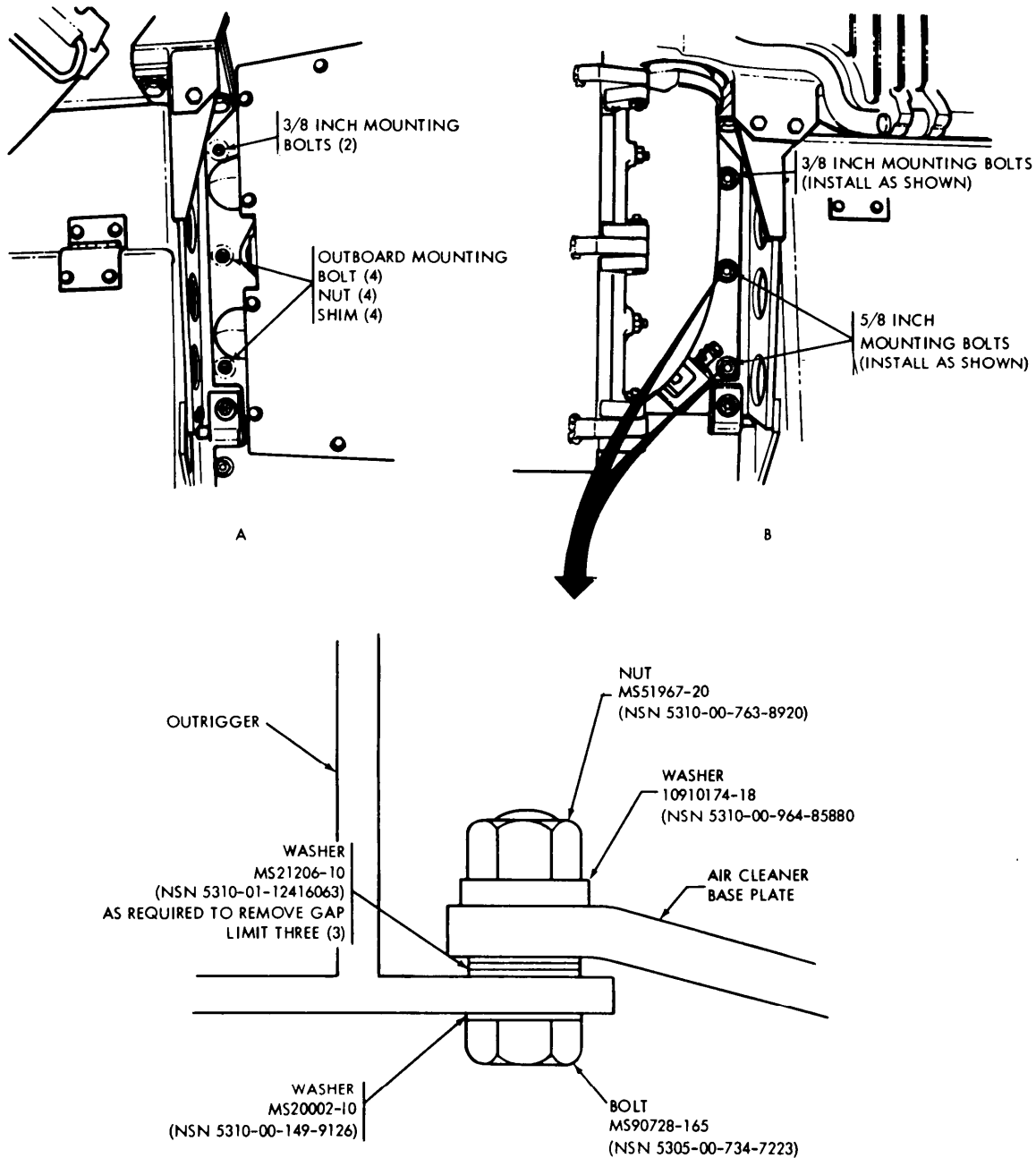


Figure 4-10. Armored air cleaner mounting bolt replacement.

(1) Tools Required.

| | |
|----------------------|------------------|
| (a) Drill Motor 1/2" | 5130-00-889-9000 |
| (b) Drill Bit 3/8" | 5133-00-227-9666 |
| (c) Drill Bit 5/8" | 5133-00-228-1327 |

(2) Supplies Required.

| | | | |
|---|--|------------------|-------------|
| (a) Bolt | MS90728-165 | 5305-00-724-7223 | 8 required |
| (b) Nut | MS51967-20 | 5310-00-763-8920 | 8 required |
| (c) Washer | 10910174-18 | 5310-00-964-8588 | 8 required |
| (d) Washer | MS21206-10 or MS20002-10 (substitute) | 5310-00-149-9126 | 32 required |
| (e) Locking Compound Grade L, Type 1 | MIL-S-46163 | 8030-00-148-9833 | |
| (f) Primer Grade F | MIL-S-46163 | 8030-00-900-2373 | |

(3) Procedure.

- (a) Disconnect battery ground cables (TM-20).
- (b) Remove and discard four outboard 3/8 inch armor air cleaner housing mounting bolts, nuts and shims (view A).
- (c) Loosen remaining two 3/8 inch armor air cleaner mounting bolts.
- (d) Loosen fender extension located outboard of air cleaner housing.
- (e) Make sure air cleaner four mounting holes are centered over four outrigger holes. Carefully shift air cleaner as required.
- (f) Tighten two 3/8 inch mounting bolts to secure air cleaner housing in place during drilling operation.
- (g) Drill out four outboard holes in the two outriggers using the following procedure:
 1. With a 1/2 inch drill motor and a 3/8 inch drill bit, drill out four outrigger threaded 3/8 inch holes.
 2. Using 3/8 inch hole as a pilot and a 5/8 inch drill bit, drill a 5/8 inch hole through outboard holes.
 3. Remove burrs as each hole is drilled.

- (h) After each hole is drilled, install bolt, washer and nut to insure air cleaner does not shift during subsequent drilling operation (view B).
- (i) After drilling all four 5/8 inch holes, loosen all mounting bolts and check for gap between air cleaner base plate and outriggers. If a gap exists, use washers (maximum of three per bolt) to shim gap lighten 5/8 inch mounting.
- (j) Apply primer, NSN 8030-00-900-2373 and locking compound, NSN 8030-00-148-9833, to bolt threads and nuts.
- (k) Tighten 5/8 inch bolts to 85-95 lb-ft (115-129) and 3/8 inch bolts to 22-30 lb-ft (30-41 N-m).
- (l) Tighten fender extension mounting bolts.
- (m) Connect battery ground cables (TM-20).

4-6. V-Band Clamps (Fig. 4-11)

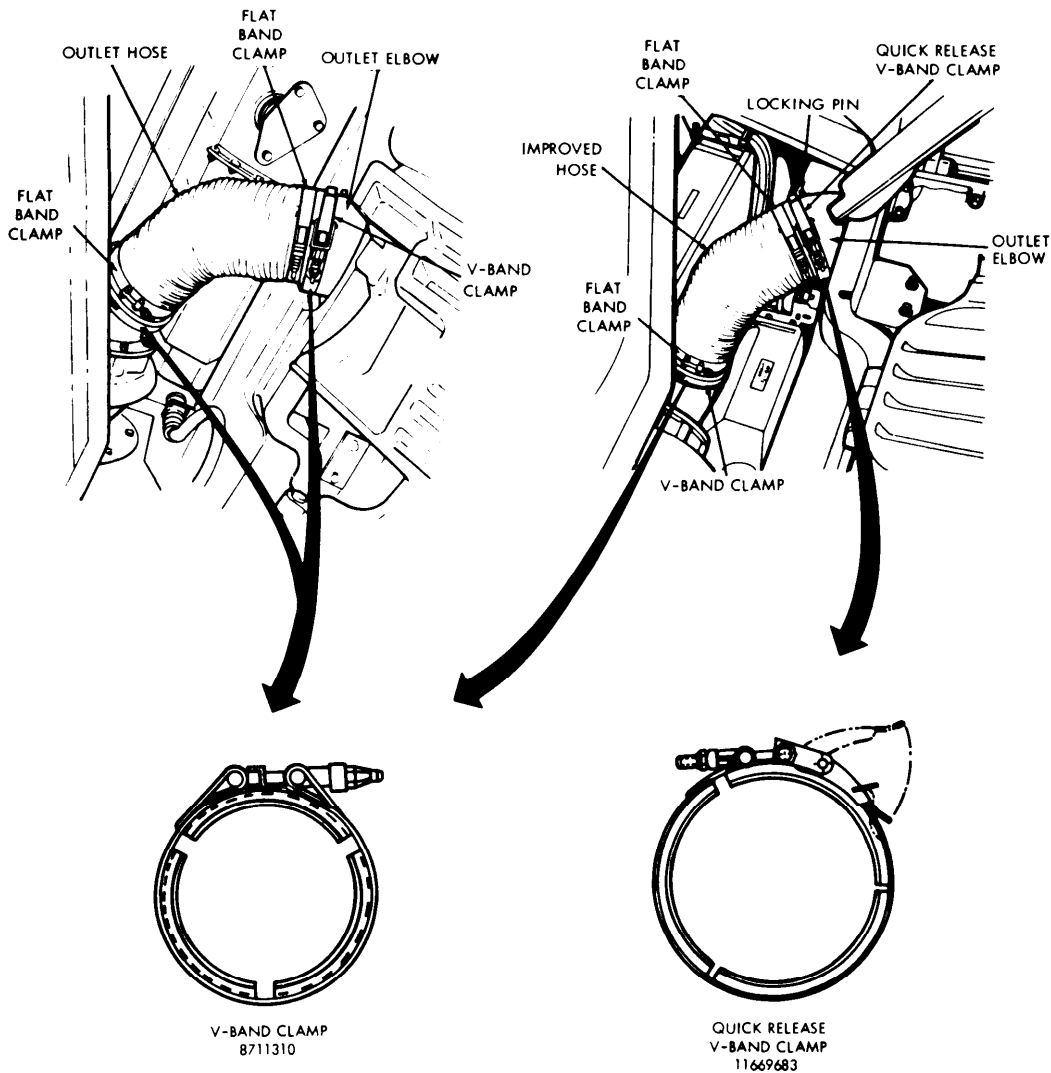


Figure 4-11. V-band clamps.

a. *General.*

Field reports indicate that finger band clamp tips and fingers have a tendency to bend. This creates a loose fitting between the elbow and hose and allows dirt and dust to enter the engine. Late model replacement clamps are available that have been proven to provide a better seal between the elbow and hose.

b. *Description.*

Two type of quick release clamps are being used.

(1) V-band clamps can be used at either end of the outlet.

(2) Quick-release V-band clamp can only be used with the improved hose at the air cleaner outlet elbow.

4-7. Inlet and Outlet Elbow Torquing Sequence (Fig. 4-12)

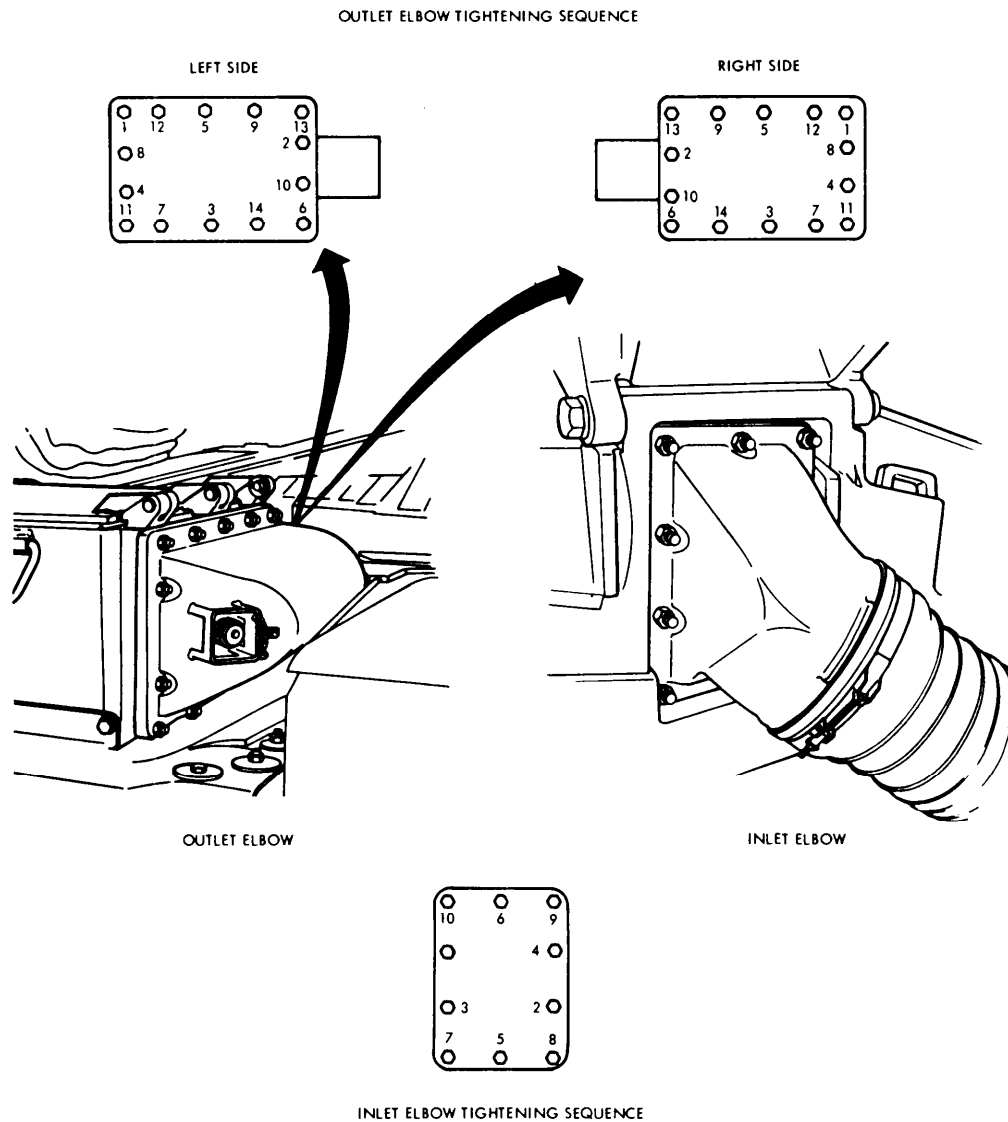


Figure 4-12. Inlet and outlet elbow torquing sequence.

a. *General.*

The nuts securing the inlet or outlet elbow of the air cleaner may loosen thus allowing dust to be drawn into the engine. Check that the securing nuts are properly tightened according to the following procedures.

b. *Torquing Procedures.*

(1) Tools required.

- (a) 9/16 inch socket, 1/2 inch drive
- (b) 6 in. socket extension, 1/2 inch drive
- (c) Torque wrench, 1/2 inch drive, 0-175 ft-lb

(2) Whenever the air cleaner is serviced or replaced, check that the elbow securing nuts are properly tightened.

NOTE

On the M60 series tank, the nuts in positions and 2 of the outlet elbow cannot be tightened if the air cleaner is mounted on the tank. Be sure to tighten all nuts whenever the air cleaner is removed.

4-8. Spring Loaded Air Cleaner Filter Element (Fig. 4-13)

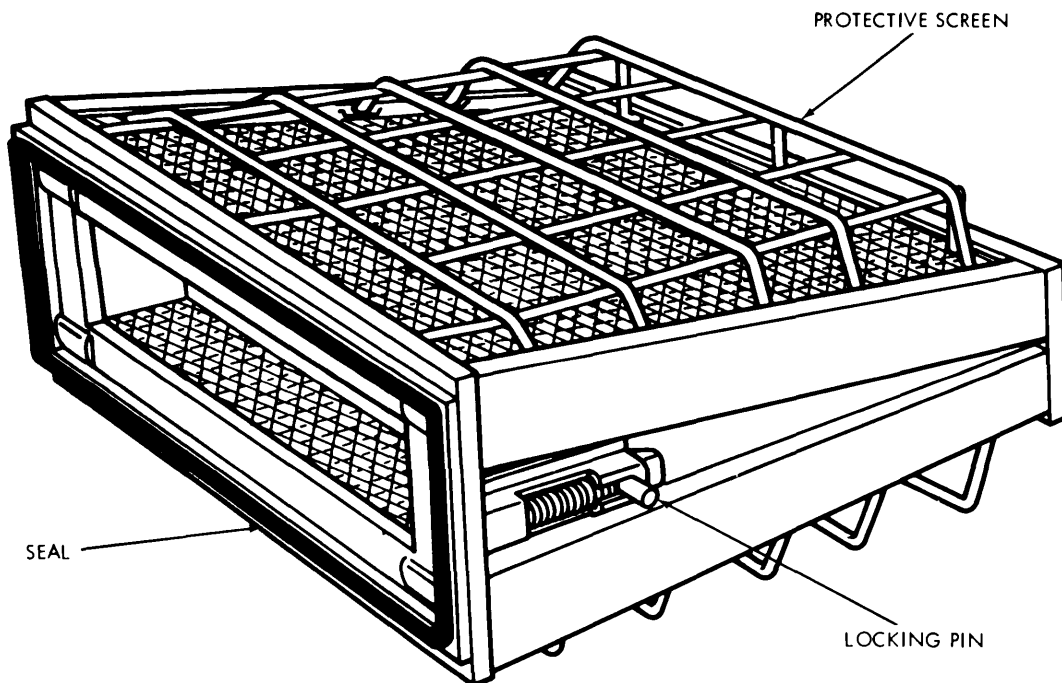


Figure 4-13. Spring-loaded air cleaner filter element.

An improved spring-loaded filter element is available that has increased dust capacity. This greater dust capacity provides greater mileage between cleanings. It also provides a more positive seal, through the use of spring loaded locking pins, that reduces the possibility of dust ingestion.

4-9. Powerpack Ground Hop Filter (Fig. 4-14).*a. General.*

Ground hop filters must be installed during ground hop operations to prevent dust and dirt ingestion. Ground hop filters are available in the ground hop kit 12304135, NSN 2590-01-128-0097 (Table 4-2). If the kit is not available, the filter must be fabricated (para. C).

b. Powerpack Ground Hop Kit Components.

Table 4-2 lists the components of the powerpack ground hop kit.

Table 4-2. Powerpack Ground Hop Kit

| Nomenclature | Part No. | NSN | Qty. |
|----------------------------|-----------|------------------|------|
| Cable Assembly, Generator | 8366463 | 4910-00-092-9131 | 1 |
| Cable Assembly, Access | 10864166 | 2590-00-674-8736 | 1 |
| Cable Assembly, Stanter | 10864169 | 2590-00-674-8737 | 1 |
| Cable Assembly, Ground | 10864170 | 2590-00-674-8738 | 1 |
| Tool, Brake, Applicator | 10933755 | 5120-00-570-7486 | 2 |
| Hose Assembly, Primer | 11591102 | 5130-00-891-7865 | 1 |
| Hose Assembly, Fuel | 11591103 | 5130-00-891-7864 | 2 |
| Cable Assembly, Alt | 11674344 | 6150-00-628-1160 | 1 |
| Hose Assembly, Air | 12271067 | 4720-01-121-1542 | 2 |
| Ground Hop Filter Assembly | 12270979 | 2940-01-121-1221 | 2 |
| Bag, Duff, TYPE | M11-B-829 | | 2 |
| Clamp Hose | 1669683 | 4730-01-132-9086 | 2 |
| Clamp Assembly | 8711310 | 5340-00-678-6178 | 2 |

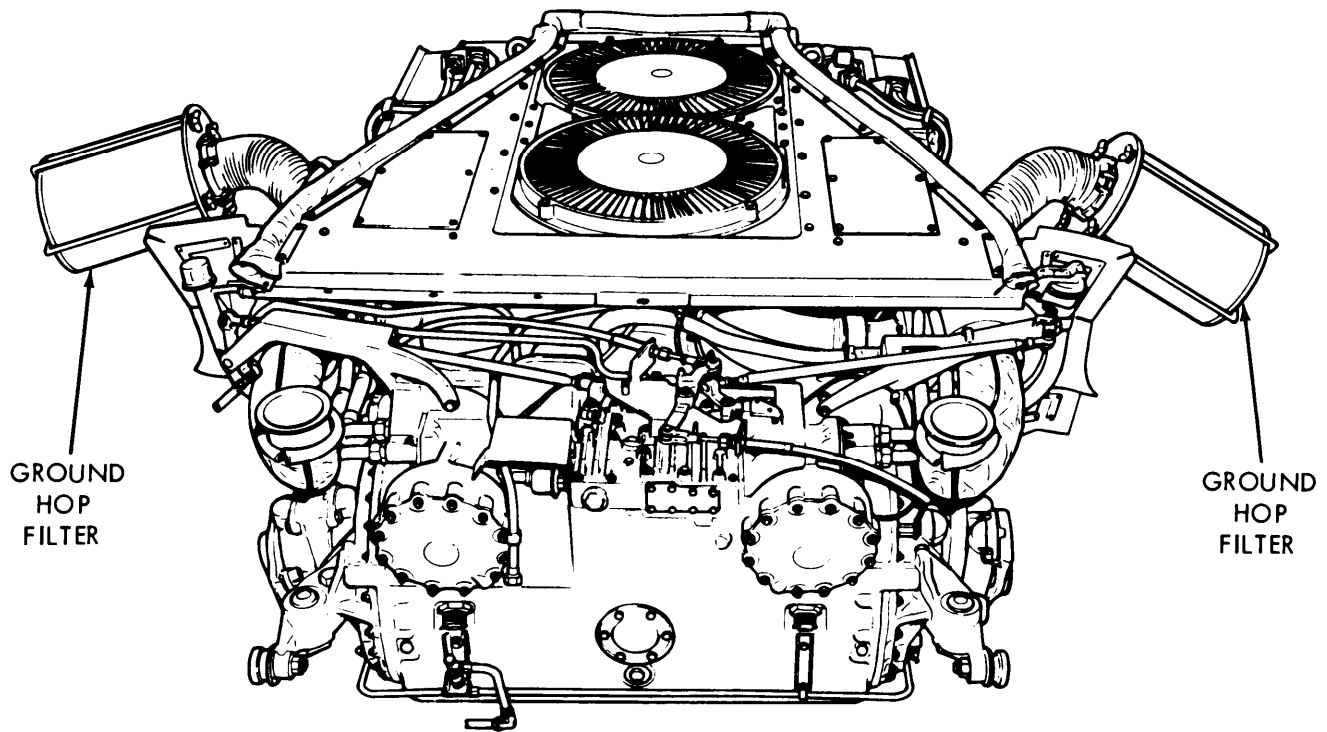


Figure 4-14. Ground hop filters.

c. Ground Hop Filter Fabrication (Fig. 4-15).

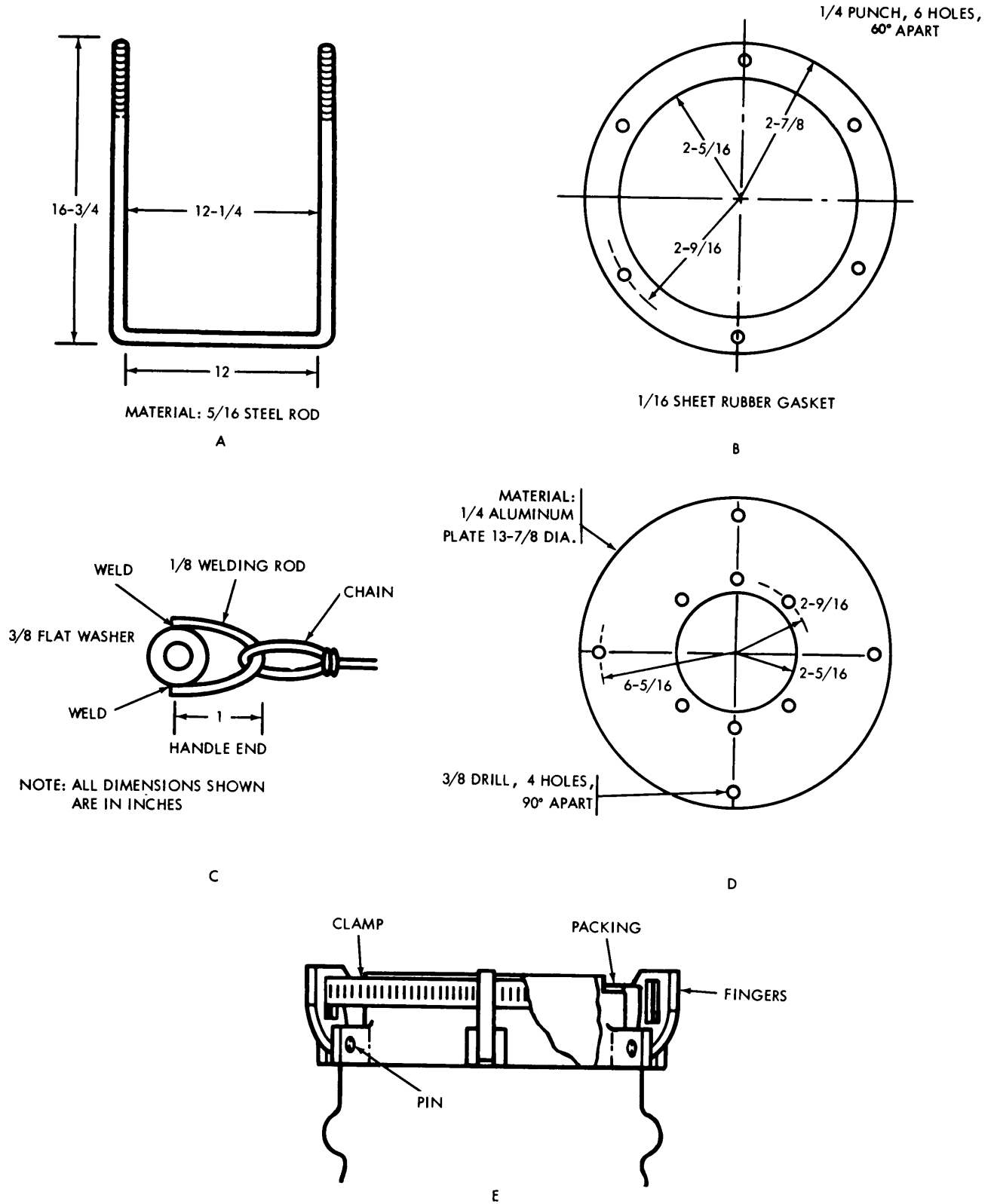


Figure 4-15. Ground hop filter fabrication (sheet 1 of 2).

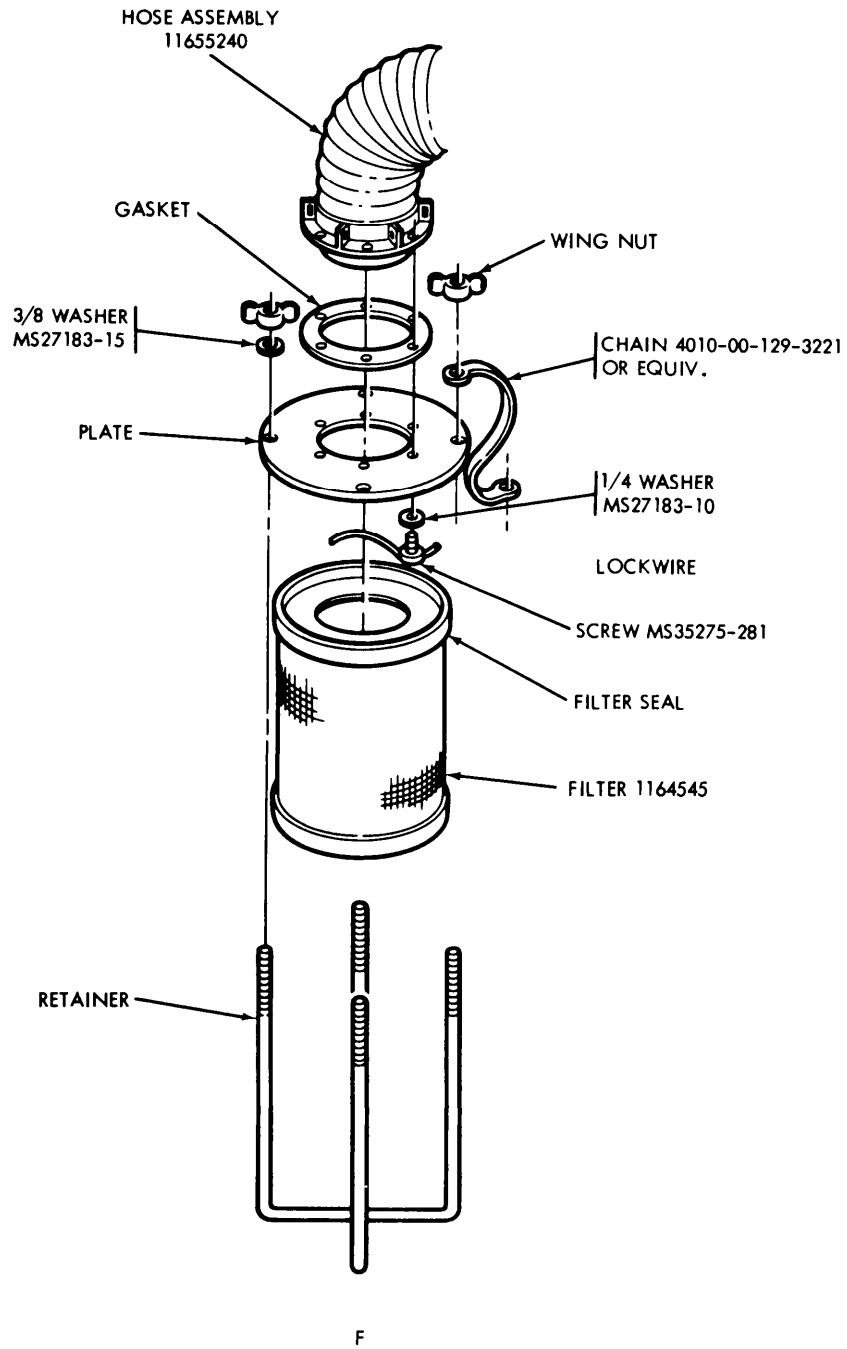


Figure 4-15. Ground hop filter fabrication (sheet 2 of 2).

- (1) Parts Required. Table 4-3 lists the parts required to fabricate the ground hop filter.

Table 4-3. Ground Hop Filter Parts

| Nomenclature | Part No. | NSN | Qty |
|--|-------------|------------------|----------|
| Filter element | 11604545 | 2940-00-134-4657 | 2 |
| Hose assembly (on engine) | 11655240 | 4720-00-614-8390 | 2 |
| 1/4" thick x 13-7/8" dia. aluminum plate | | | 2 |
| 5/16" dia. x 45-1/2" long cold rolled steel rod | | | 4 |
| 1/16" thick x 5-3/4" dia. rubber sheet | | | 2 |
| 3/8" washer, plain | MS27183-15 | 5310-00-809-4061 | 12 |
| Chain (11 inches) | | 4010-00-129-3881 | 2 |
| 1/4" 20 x 3/4 screws | MS35275-281 | 5305-00-939-9147 | 12 |
| 1/4" washer, plain | MS27183-10 | 5310-00-809-4058 | 12 |
| 5/16" 18 wing nut | MS35425-39 | 5310-00-080-8495 | 8 |
| 1/8" welding rod | | | As Req'd |

- (2) Retainer (4 required). Fabricate as follows:

- (a) Using steel rod, bend to dimensions (view A).
- (b) Using 5/16-18 die, thread each rod end a minimum of 2 inches.

- (3) Gasket (2 required). Using 1/16 rubber sheet, fabricate gaskets as described in view B.

- (4) Handle (2 required). Using length of chain welding rod and washer, fabricate chain end as follows:

- (a) Bend 1/8 inch welding rod to shap (view C).
- (b) Weld rod to edge of washer on one side.
- (c) Install chain.

- (d) Weld rod to edge of washer on other side.
- (e) Repeat steps (a) through (d) above for other end of chain.
- (5) Plate. Using aluminum plate, fabricate plate as follows:
 - (a) Cutout aluminum plate and lay out holes (view D).
 - (b) Cutout center hole.
 - (c) Position modified end of hose assembly in center of plate.
 - (d) Use a 13/64 inch drill to bore six holes through plate and positioned hose assembly.
 - (e) Remove hose assembly and tap the newly drilled holes in hose assembly using a 1/4-20 UNC tap.
 - (f) Enlarge six drilled holes in aluminum plate to 17/64 inch diameter.
 - (g) Drill four holes 3/8 inch diameter.
- (6) Hose Assembly Modification.

Modify hose assembly as follows:

NOTE

Remove parts from one end of hose assembly only.

- (a) Remove band clamp from end of hose assembly (view E).
 - (b) Use punch to remove six (6) cold rolled pins.
 - (c) Remove clamp fingers.
 - (d) Remove preformed packing.
- (7) Assembly.

Assemble the ground hop filter as follows:

- (a) Attach modified hose assembly to plate using rubber gasket, six 1/4-20 screws and six flat washers.
- (b) Lockwire six screws.

WARNING

Screws must be lockwired to prevent loosening. Loose screws could fall out and be drawn into the turbocharger, causing damage to equipment and injury to personnel.

- (c) Center seal end of filter against aluminum plate.

- (d) Insert one retainer into opposite holes in aluminum plate so that retainer will hold filter assembly in place against plate.
 - (e) Install washer (MS27183-15) and wing nut on threaded ends of retainer. Place one end of chain handle assembly and wing nut on other threaded end of retainer.
 - (f) Repeat steps (d) and (e) to install second retainer.
 - (g) Tighten wing nuts evenly until filter seal is uniformly compressed along entire circumference.
- (8) Installation of Ground Hop Filter.

NOTE

Prior to removal of air cleaner-to-turbosupercharger hose assembly, mark it with chalk or grease pencil. This will index the hose for easy installation and ensure proper alinement.

- (a) Remove air cleaner-to-turbosupercharger hose assembly from engine.
- (b) Install filter on turbosupercharger elbow.

NOTE

Engine intake openings must be plugged or taped when filter units are not attached.

- (9) Maintenance of Ground Hop Filter.
- (a) Inspect filter unit prior to use. Clean filter element as necessary. Never ground hop using a dirty filter.
 - (b) Keep modified hose assembly on ground hop air filter plugged when unit is not in use to prevent dirt from entering clean air inside of filter unit.
 - (c) Remove unit when ground hopping operations are discontinued to prevent filter from being exposed to elements.

- (10) Stowage. Upon completion of ground operations, perform the following:

- (a) Clean ground hop filter:

WARNING

Compressed air used for cleaning purposes must not exceed 90 psi. Use only with effective chip guarding and personal protective equipment (goggles/shield, gloves, etc.).

1. Direct compressed air (not to exceed 90psi) against inside of filter element.
2. Place each filter in duffel bag with flat end facing duffel bag bottom.
3. Place each air hose, with clamps into duffel bag on top filter. Close duffel bag using snap fastener.

4-10. Aluminum Side or Top Loading Air Cleaner Replacement

a. General.

When an aluminum air cleaner becomes unserviceable, it should be replaced with the armored air cleaner. Currently, the M60 series tanks may be furnished with one of the following listed air cleaners:

Aluminum Side Loading Air Cleaners (ALSLAC)

- P/N 10863539- (Left) earlier model
- P/N 10863540- (Right) earlier model
- P/N 10940233-1, NSN 2940-00-067-7922- (Left)
- P/N 10940233-2, NSN 2940-00-067-7926- (Right)

Aluminum Top Loading Air Cleaner (ALTLAC)

- P/N 11655320-1, NSN 2940-00-621-1427- (Left)
- P/N 11655320-2, NSN 2940-00-621-1428- (Right)
- P/N 11675951-1, NSN 2940-00-455-2427- (Left)
- P/N 11675951-2, NSN 2940-00-455-2511- (Right)

NOTE

Only DS/GS personnel are authorized to accomplish the air cleaner replacement.

b. Parts Required.

When the aluminum side or top loading air cleaners are being replaced with the armored top loading air cleaners, hardware kits 12290568 and 12290570 are required. The armored air cleaner assembly is not part of these kits and must be requisitioned separately. When replacing aluminum side loading air cleaners with armored top loading air cleaners, the existing fender extensions are not used and must be replaced with new fender extensions. These fender extensions are not part of the armored air cleaner kits and must be requisitioned separately. Fender extensions required are:

- Left Fender Extension - NSN 2510-00-455-1351, P/N 11659711-1
- Right Fender Extension - NSN 2510-00-455-1352, P/N 11659711-2

c. Tools Required.

- | | |
|-------------------|------------------|
| 3/8-16 UNC-2B Tap | 5136-00-276-1032 |
| Sander Disk | 5130-00-857-8526 |
| Torch Outfit | 3433-00-357-8116 |
| Welder, Arc | 3431-00-903-5647 |
| Drill 5/16 | 5133-00-227-9662 |

d. Procedures.

Replace aluminum air cleaner as follows:

- (1) Remove aluminum air cleaner (TM20-1)

- (2) Remove No. 3 and No. 4 outriggers as follows:

NOTE

Perform steps (a) thru (f) to both left and right sides of tank.

- (a) Remove two bolts MS35673-838 or MS35764-838 or MS35763-31, bolt MS35763-32 and flat washer MS27183-17 securing outer support bracket 11655113-1 (Lt) or 8762504 (Lt) or 11655113-2 (Rt) or 8762503 (Rt) to outrigger number 3 (fig. 4-16, View A). Remove and retain outer support bracket.

NOTE

Some outer support brackets 8762504 (Lt) and 8762503 (Rt) removed from left and right outrigger number 3 may need to be reworked to fit the new outrigger supplied in kit. If the outer support brackets removed in step (a) above measured 5-1/2 inches high as shown in figure 4-17 and the distance between the centers of the two 3/8 inch tapped holes in 3 inches as shown in figure 4-17 then these outer support brackets must be reworked according to figure 4-18. The rework will require trimming 1 inch off the top of the bracket and drilling and tapping one new 3/8-16 UNC-2B hole as shown in figure 4-18.

- (b) Remove screw MS90725-112 and nut MS51922-33 securing outrigger number 3 to inner support bracket (fig. 4-16, view A).
- (c) Remove four screws MS90725-183 and lockwashers MS35338-51 securing outrigger number 3 to inner support bracket and remove and discard outrigger 11655110-1 (lt) or 8762417 (lt) or 11655110-2 (rt) (fg. 4-16, view A).
- (d) Remove two bolts MS35763-838 or MS35764-838 or MS35763-31, bolt MS35763-32 and flat washer MS27183-17 securing outer support bracket 8762503 (lt) or 8762504 (rt) to outrigger number 4. Remove and retain outer support bracket (fig. 4-16, view B).

NOTE

Do not rework outer support brackets removed from left and right outrigger number 4.

- (e) Remove two screws MS90725-112 and nuts MS51922-33, securing outrigger number 4 to inner support bracket (Fig. 4-16, View B).
- (f) Remove four screws MS90725-183 and lockwashers MS35338-51, securing outrigger number 4 to inner support bracket and remove and discard outrigger 8762387 (Lt) or 8762388 (Rt) (Fig. 4-16, View B).

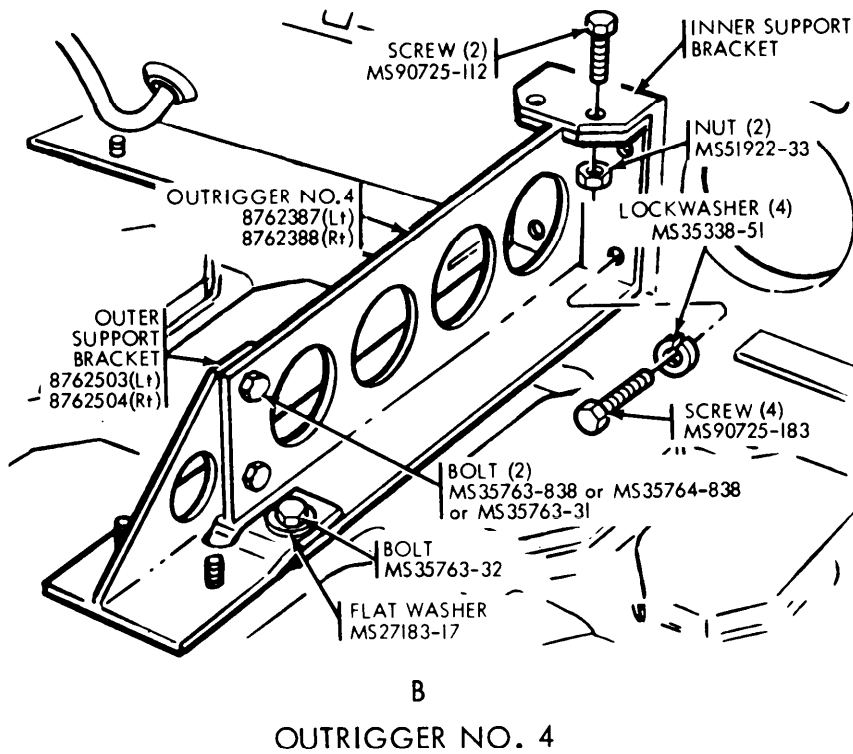
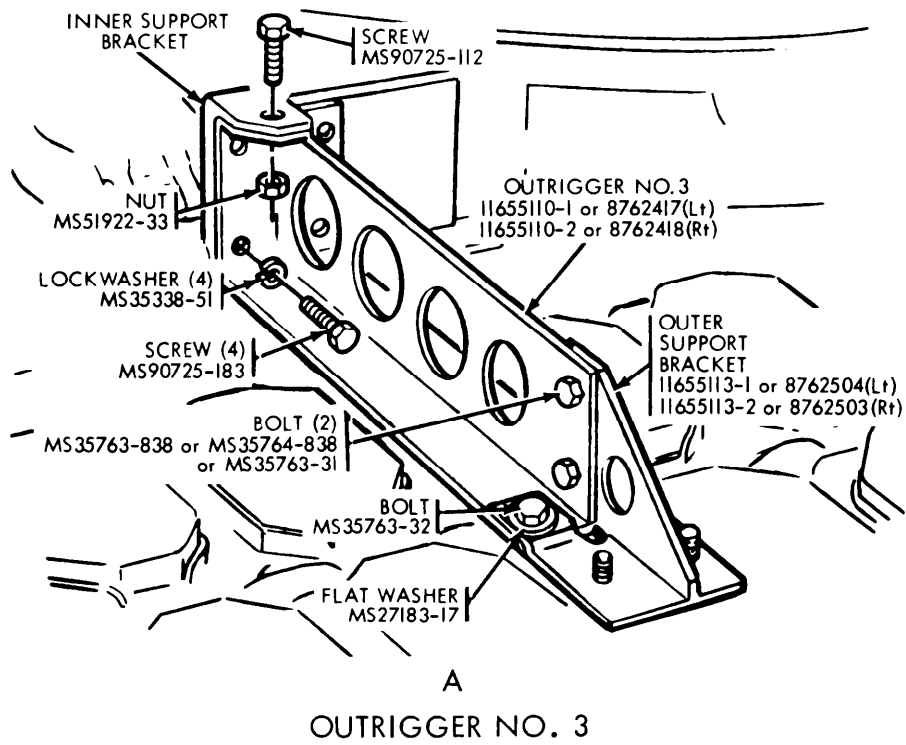
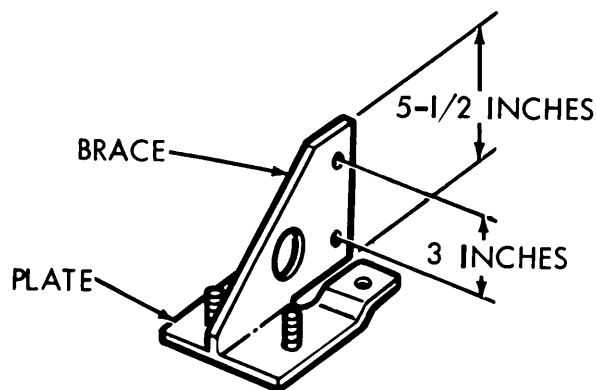
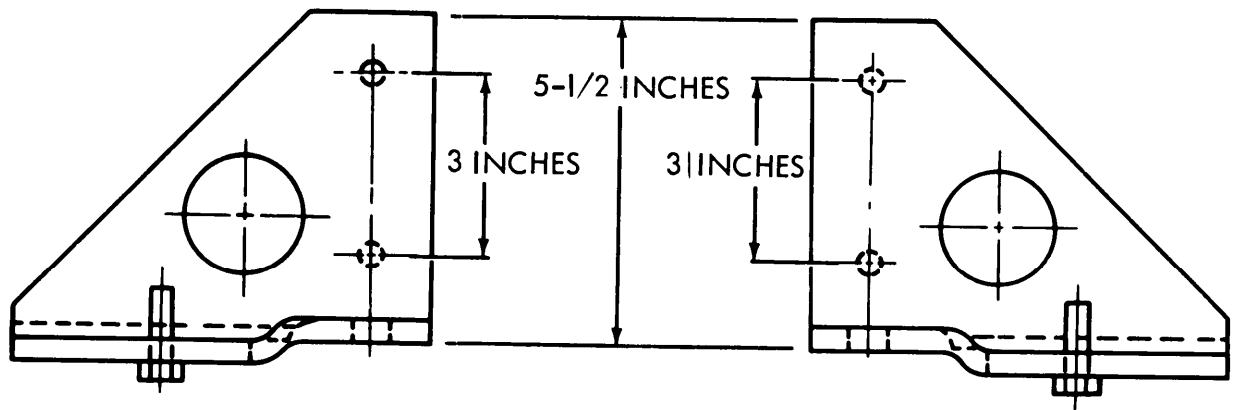
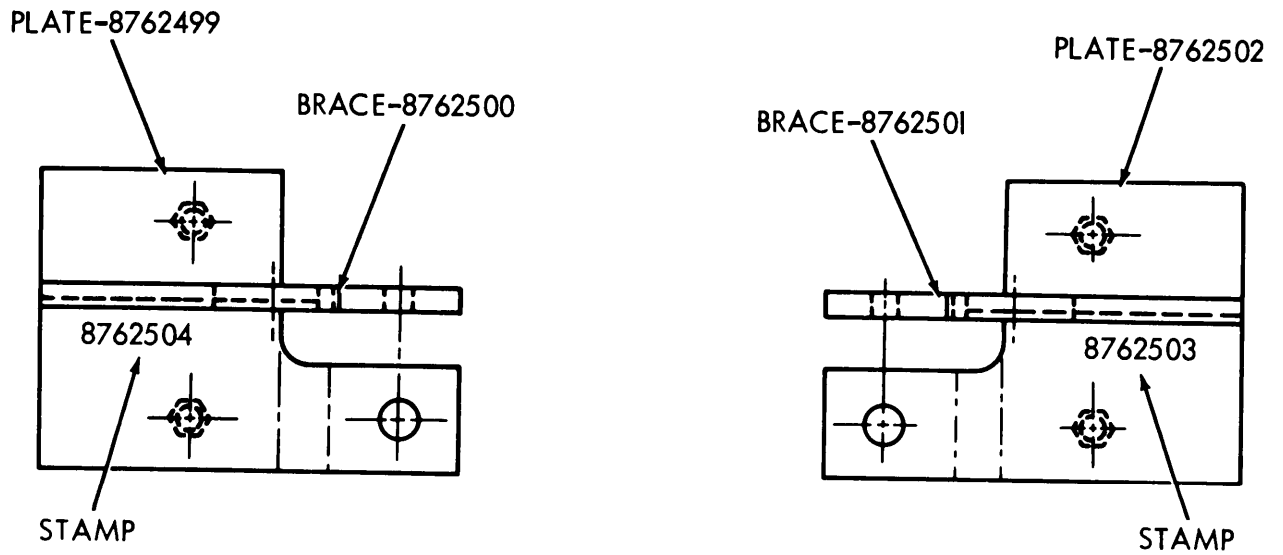


Figure 4-16. No. 3 and No. 4 outrigger removal.



NOTE

IF OUTER SUPPORT BRACKETS REMOVED FROM OUTRIGGERS NUMBER 3 MEETS THESE DIMENSIONS, THEN BRACKETS MUST BE REWORKED ACCORDING TO FIGURE 4-18.

Figure 4-17. Outer support bracket measurements.

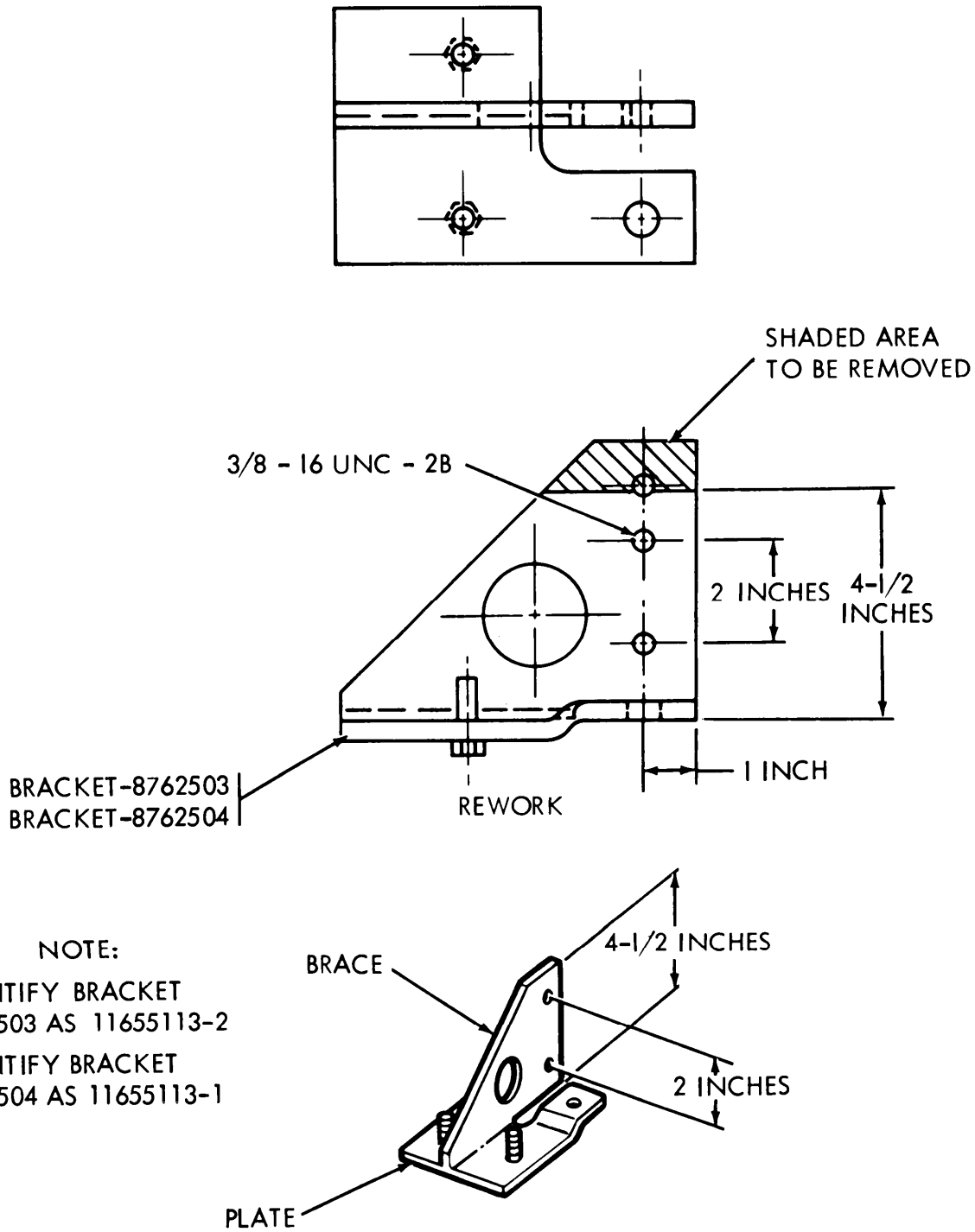


Figure 4-18. Support brackets rework.

- (3) Install outrigger support plate as follows:

WARNING

Welding in the vicinity of fuel, oil and hydraulic fluid is dangerous. Place flameproof material between welding area and fuel tanks and surround components with wet rags or canvas to protect against weld spatter. Station a helper in the immediate area with an approved fire extinguisher before beginning welding operations. Failure to adequately protect against fire can cause injury, death or damage to equipment.

NOTE

- All welds must be performed to MIL-W-46086 (MR), Method 1. Use austenitic electrodes only (308 MOT 16 stainless or equivalent). Refer also to TM 9-237 Welding Theory and Application.
- For left side of tank, proceed as follows:
 - (a) Obtain reinforcement plate 12252268 from kit and weld plate to number 3 outrigger inner support bracket (on left side of tank) and hull as shown in Figure 4-19.
 - (b) Clean, prime, and paint plate and weld area.

NOTE

For right side of tank, proceed as follows:

- (c) Using cutting torch, carefully cut the support 8762618 from the hull and grind surface smooth (Figure 4-20).
- (d) Obtain plate 12252276 from kit and trim or shim to obtain a good fit in position shown in figure 4-21. After good fit is obtained, tack weld plate in place. Weld plate flush to hull in areas shown in figure 4-21. Do not weld curved area of plate since of passageway must remain for fuel overflow drainage.
- (e) Clean, prime, and paint plate and weld area.

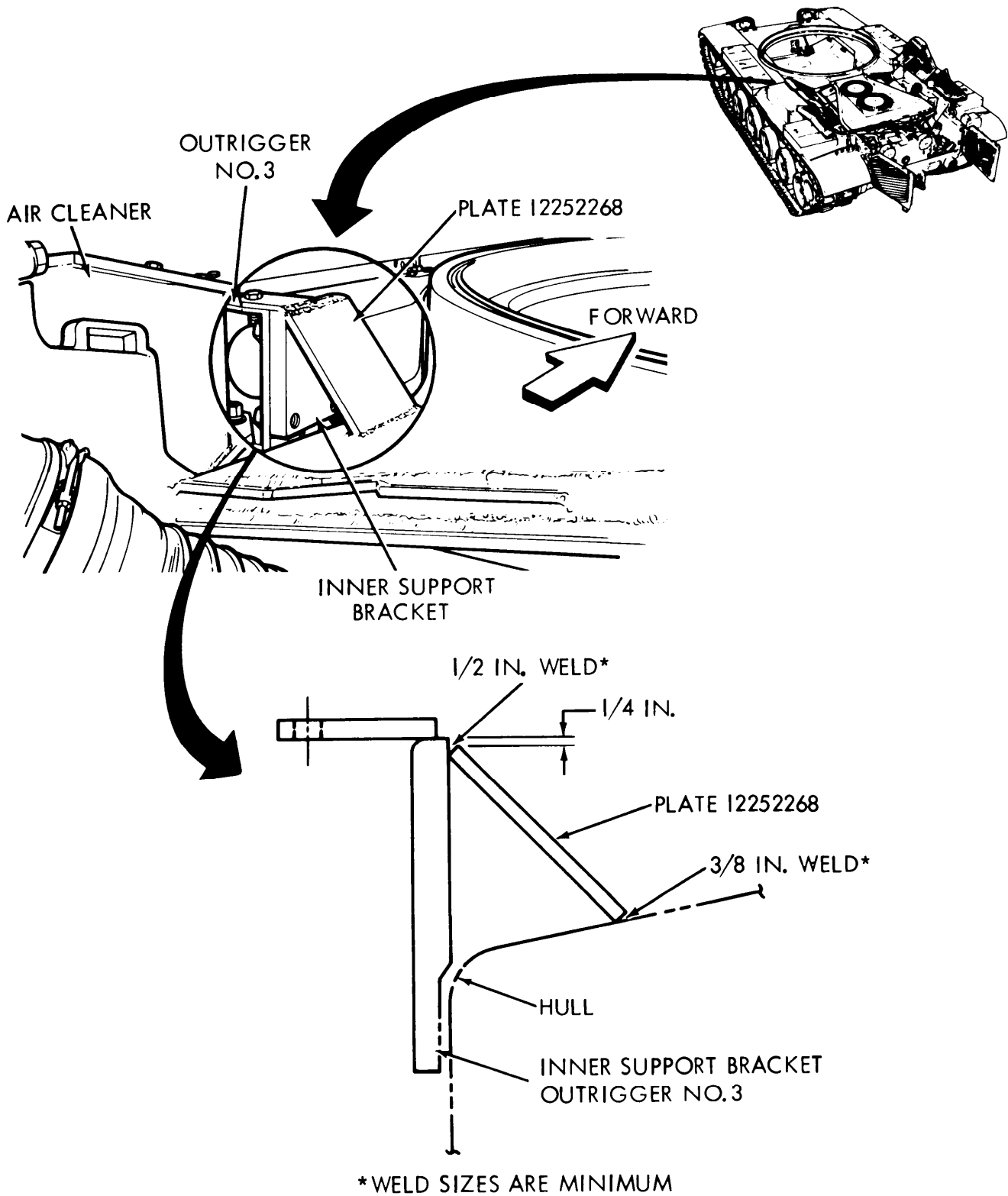


Figure 4-19. Left outrigger support plate installation.

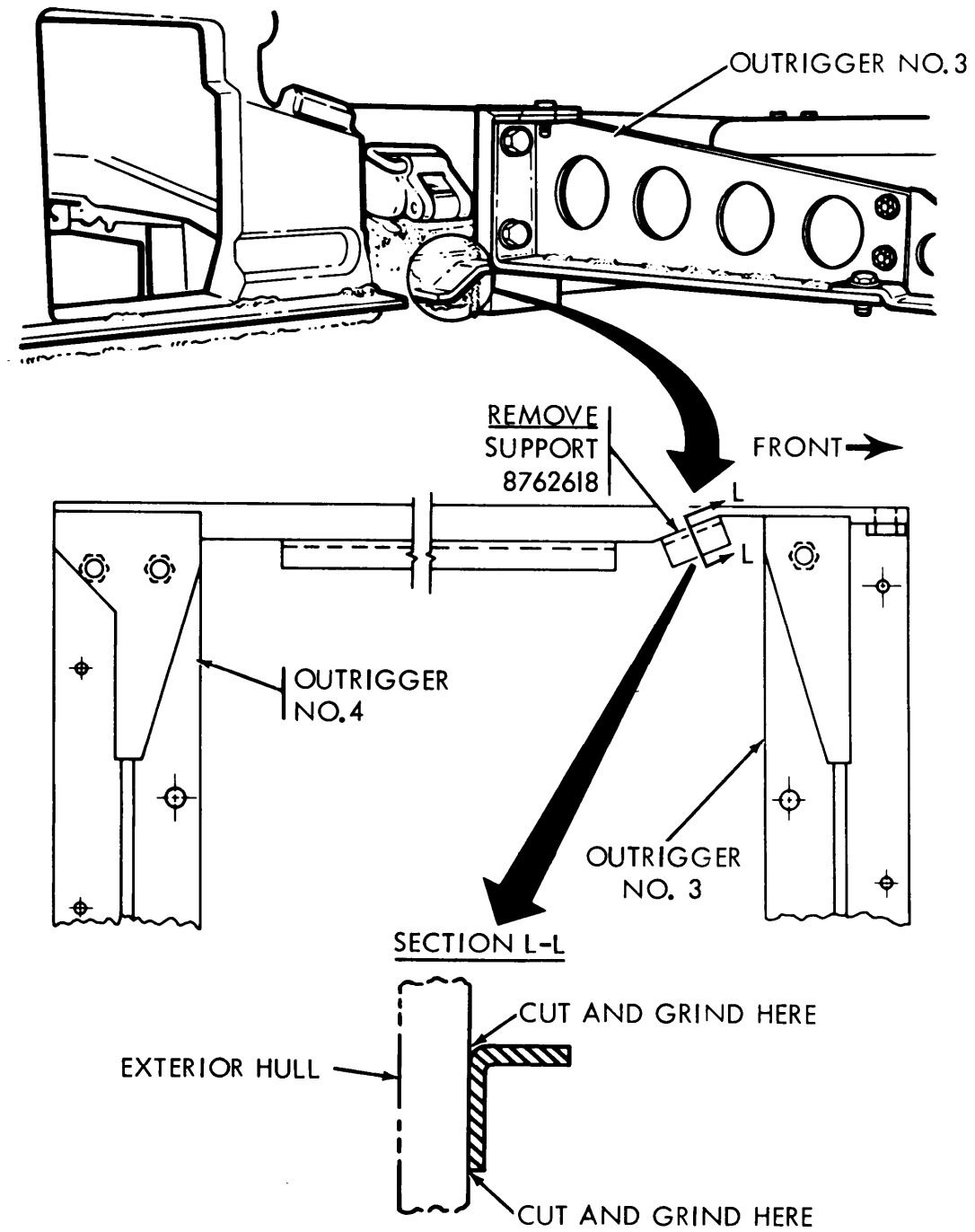


Figure 4-20. Right outrigger support removal.

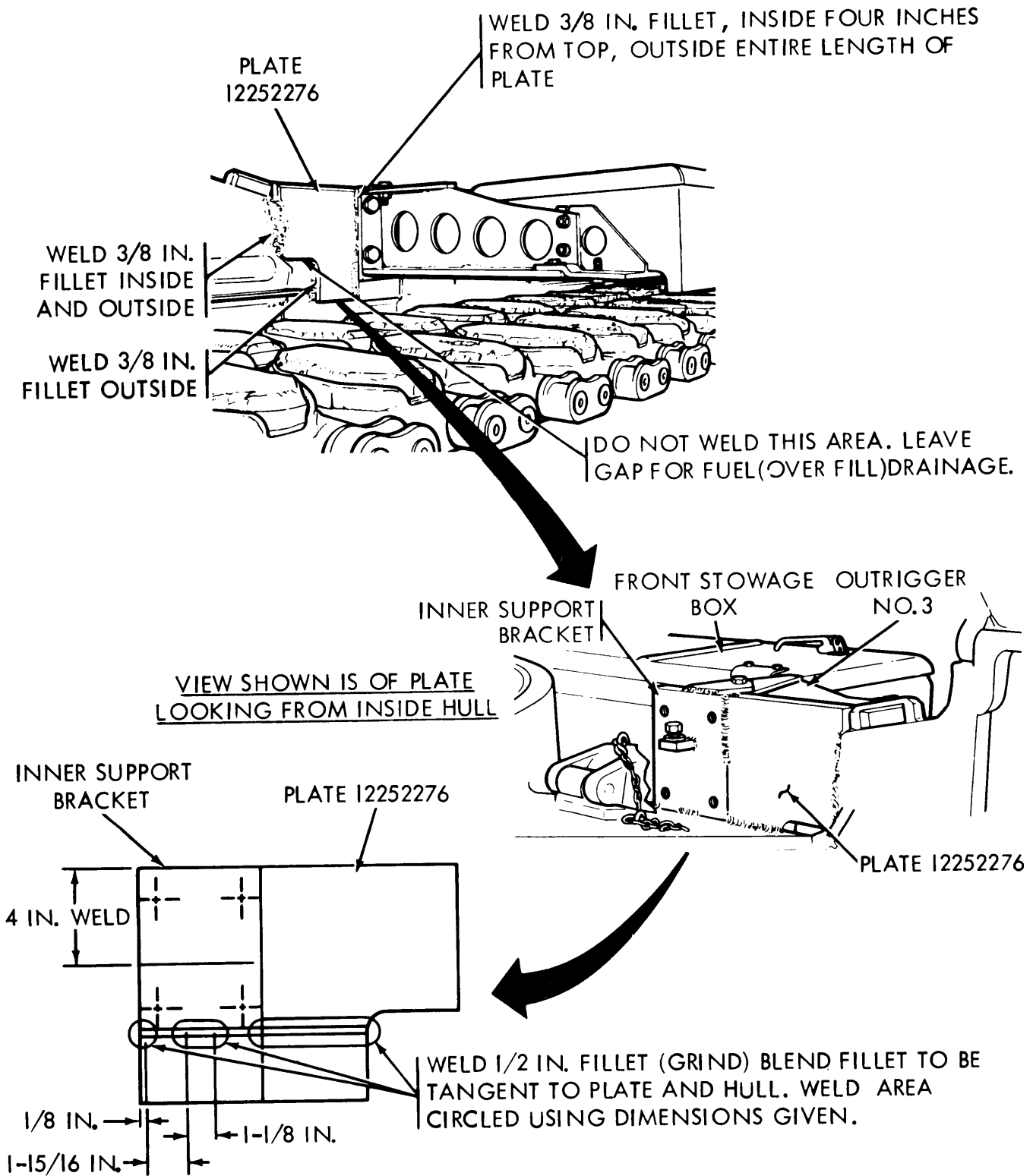
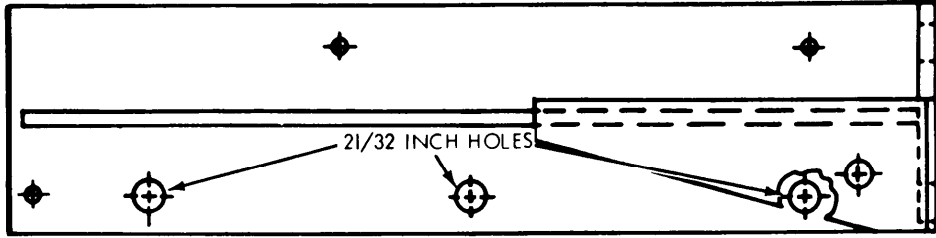


Figure 4-21. Right outrigger support installation.

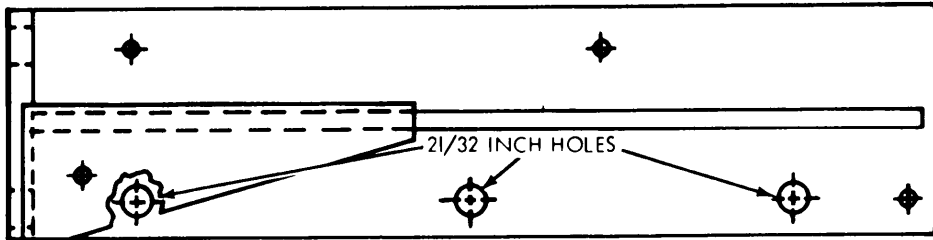
(4) Install Outriggers No. 3 and No. 4

NOTE

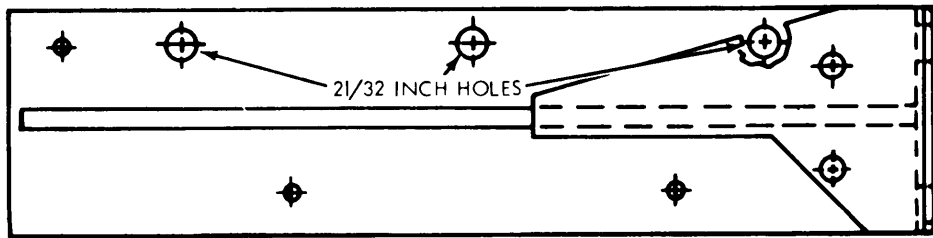
- Check all new outriggers from kit to ensure the holes for air cleaner mounting bolts are drilled to 21/32 inch (.656 inch) in places indicated for each outrigger as shown on figure 4-22. If the holes are to be 21/32 inch are 3/8 inch are 3/8 inch tapped holes, enlarge the three holes on each outrigger to 21/32 inch.
 - Perform steps 1 through 5 to both left and right sides of vehicle.
- (a) Using four new screws MS90725-183 and new lockwashers MS35338-51, install new outrigger 12290526-1 (lt) or 12290526-2 (rt) to number 3 outrigger inner support bracket (fig. 4-23, view A). Torque four screws to 130 lb-ft (172 N·m) lubricated. Secure new outrigger to inner support bracket at top with new screw MS90725-112 and new nut MS51922-33.
- (b) Install outer support bracket 11655113-1 (lt) or 8762504 (lt) or 11655113-2 (lt) or 8762503 (rt) to number 3 outrigger using two new bolts MS35764-1289. Torque to 25 lb-ft (34 N·m) lubricated. Install new bolt MS35764-1291 and new flat washer MS27183-17 attaching outer support bracket to base of outrigger number 3. Torque bolt to 25 lb-ft (34 N·m) lubricated.
- (c) Using four new screws MS90725-183 and new lockwashers MS35338-51, install new outrigger 12290527-1 (lt) or 12290527-2 (rt) to number 4 outrigger inner support bracket (view B). Torque four screws to 130 lb-ft (172 N·m) lubricated. Secure new outrigger to inner support bracket at top with two new screws MS90725-112 and new nuts MS51922-33 (fig, view B).
- (d) Install outer support bracket 8762503 (lt) or 8762504 (rt) to number 4 outrigger using two new bolts MS35764-1289. Torque bolts to 25 lb-ft (34 N·m) lubricated.
- (e) Install new bolt MS35764-1291 and new flat washer MS27183-17 attaching outer support bracket to base of outrigger number 4. Torque bolt to 25 lb-ft (34 N·m) lubricated.



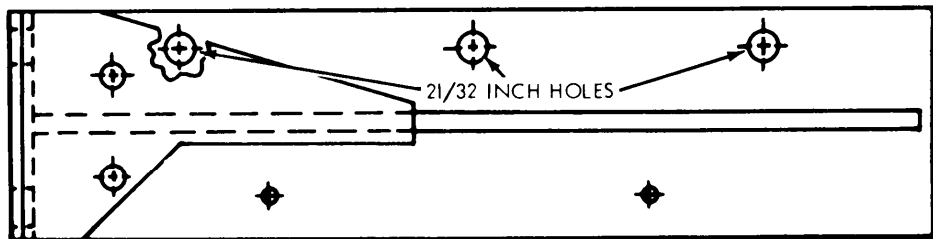
OUTRIGGER NO. 3 (12290526-1) LEFT SIDE



OUTRIGGER NO. 3 (12290526-2) RIGHT SIDE



OUTRIGGER NO. 4 (12290527-1) LEFT SIDE



OUTRIGGER NO. 4 (12290527-2) RIGHT SIDE

Figure 4-22. Outriggers No. 3 and No. 4 21/32 in. hole location.

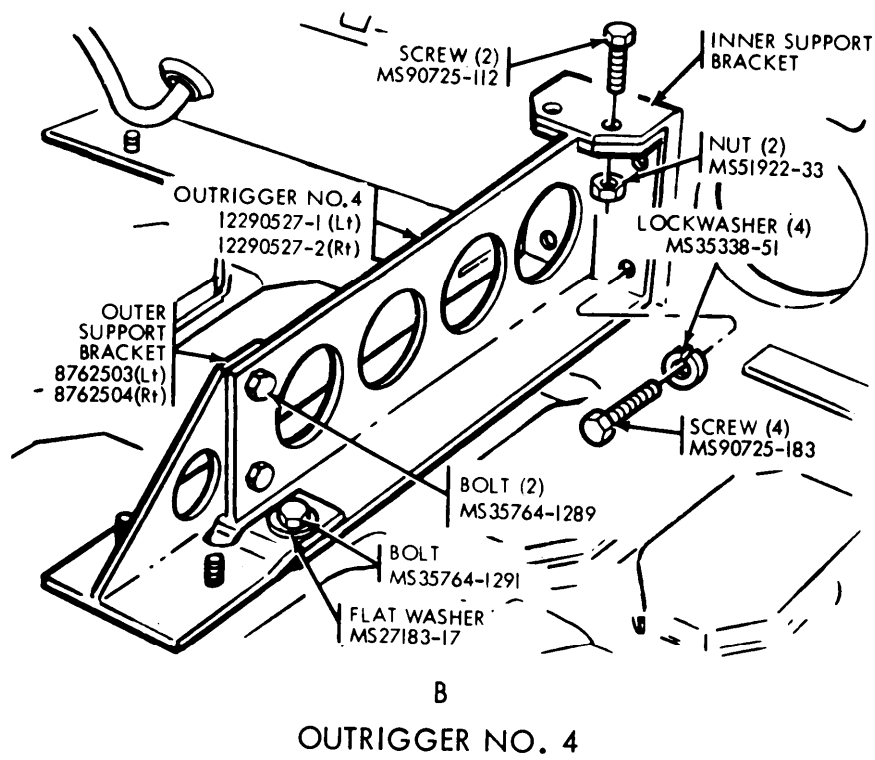
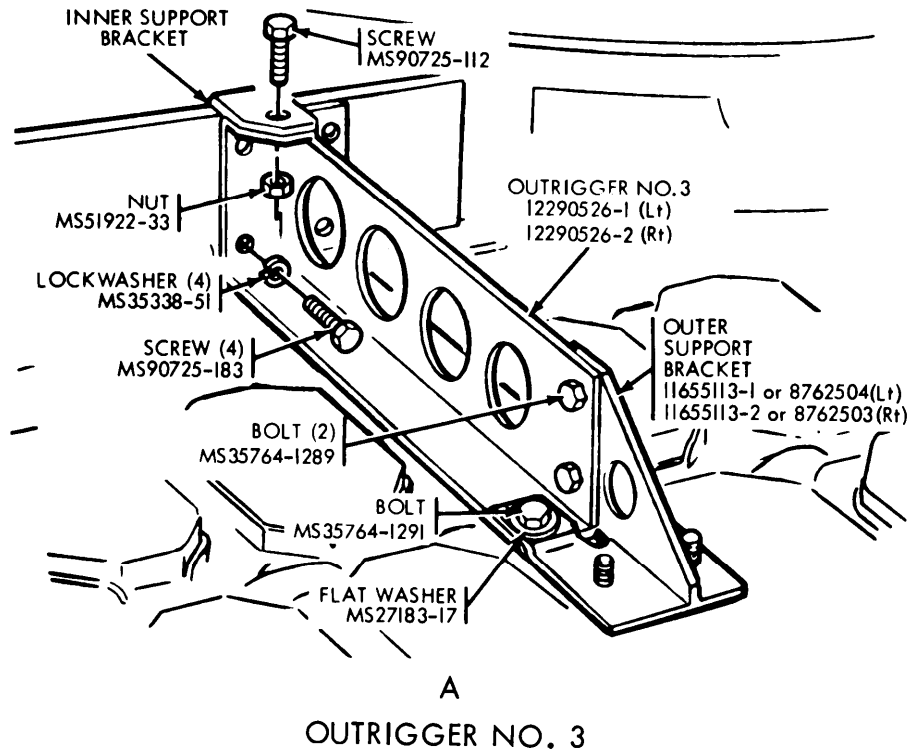


Figure 4-23. No. 3 and No. 4 outrigger installation.

- (5) Install armored air cleaner as follows (fig. 4-24):

CAUTION

Armored air cleaner weighs approximately 600 pounds.

NOTES

- This procedure is to be used for installation of the armored top loading air cleaner when it is moved from a workbench or skid to its mounting position on tank.
 - Perform steps a thru g to both left and right sides of tank.
- (a) Install new gasket 8762779 and outlet elbow 8762789 (lt) or (rt) or 8762789-1 (rt) on new armored air cleaner (view A). Secure with 14 new locknuts MS21044-N6 following proper tightening sequence (view B) (same for left and right sides). Torque locknuts to 20-25 lb ft (27-34 N·m).
- (b) Install new gasket 8762775 and inlet elbow 10863871 (lt) or 10863874 (rt) on new armored air cleaner (view A). Secure with ten nuts MS21044-N6. Tighten nuts evenly in a cross pattern (view C).
- (c) Attach lifting sling 11658914 to three lifting eyes of armored air cleaner assembly 12251922-1 (lt) or 12231922-2 (rt) (view D).
- (d) Lift and guide air cleaner to vehicle and carefully guide air intake and outlet elbows through hull openings, ensuring that blower motor electrical lead is properly inserted through opening.

NOTE

On some tanks it will be difficult to properly position air cleaner on outriggers due to an interference with hull inlet elbow opening. If this occurs, grind away excess metal around hull inlet elbow opening until proper alignment of air cleaner mounting holes and outrigger holes exists.

- (e) Check for gap between air cleaner base plate and the outriggers. If a gap exists between the armored air cleaner base plate and the outriggers, use up to 3 washers MS20002-10 per bolt as shims to eliminate gap (view E).
- (f) Secure air cleaner to outriggers with six new bolts MS90728-165, six new washers MS21206-10, six new washers 10910174-18, and six new nuts MS51967-20 (view E). Before installation, apply primer MIL-S-46163, Grade F, and sealing compound MIL-S-46163 Type 1, Grade L to bolt and nut threads. Use two to three drops of sealing compound per bolt. Torque air cleaner mounting bolts to 195 lb-ft (265 N·m).
- (g) Remove lifting sling 11658914 from armored air cleaner.

NOTE

Perform steps h through x to both left and right sides of tank.

- (h) Place fender extension 11659711-1 (lt) or 11659711-2 (rt) in position (view F).
- (i) Secure fender to side of armored air cleaner using four new bolts MS35764-1289 and new flat washers MS27183-14. Before installation apply primer MIL-S-46163, Grade F, and sealing compound MIL-S-46163 Type I, Grade L to bolt threads. Use two to three drops of sealing compound per bolt. Torque the four bolts to 25 lb-ft (34 (N·m) lubricated.
- (j) Secure fender to outer support bracket on outrigger number 3 using new locknut MS51988-7 and new flat washer 11654843.
- (k) Secure fender to outer support bracket on outrigger number 4 and fender reinforcing angle using new locknut MS51988-7, new flat washer 11654843, new screw MS90725-62, new flat washer 11654843, new flat washer MS27183-14, new lockwasher MS35338-46, and new nut MS51967-8.
- (l) Remove tape from intake hose (view G). Connect hose to inlet elbow and secure with clamp MS21920-61R or 8711309 (view H).
- (m) Remove tape from outlet hose (view G). Connect hose to outlet elbow and secure with clamp MS35842-16 or 8711310 (view I). Ensure that clamps are tight.
- (n) Connect electrical connector to blower motor lead (view H).

NOTE

Vehicles being retrofitted with top loading armored air cleaners may or may not utilize positive venting systems from the air cleaner to the final drive (left side) or air cleaner to fuel tank (right side).

- (o) If vehicle has fuel tank to air cleaner vent hose and/or final drive to air cleaner vent line then connect fuel tank vent hose to right side air cleaner outlet elbow and check valve (view J). Connect final drive vent line to left side air cleaner inlet elbow (view K).
- (p) Position front stowage box between outriggers 2 and 3.

NOTE

If a gap exists between the stowage box base plates and the outriggers, use up to three plates 8705499, as shims, to eliminate gap.

- (q) Install three plates 8705499 and three locknuts MS51988-7 securing front stowage box to outrigger number 2 (view L).
- (r) Install four flat washers MS27183-17 and locknuts MS51988-7 securing front stowage box to tank.
- (s) Install three plates 8705499, two new bolts MS35764-1291 and new locknut MS51988-7 securing front stowage box to outrigger number 3 and outer support bracket. Torque the two bolts to 25 lb-ft (34 N·m) lubricated.
- (t) Position rear fender stowage box between outrigger numbers 4 and 5.
- (u) Install three plates 8705499, new locknut MS51988-7 and two new bolts MS35764-1291 securing rear stowage box to outrigger number 4 and outer support bracket (view M). Torque two bolts to 25 lb-ft (34 N·m) lubricated.
- (v) Install three flat washers MS27183-17 and locknuts MS51988-7 securing rear stowage box to tank.
- (w) Install three flat washers MS27183-17 and locknuts MS51988-17 securing rear stowage box to outrigger number 5.
- (x) Install 6 screws MS90726-60, 12 flat washers MS27183-14, 6 lockwashers MS35338-46 and 6 nuts MS51967-8 securing rear stowage box to fender reinforcing angle.

(10) MS21044-N6
LOCKNUT

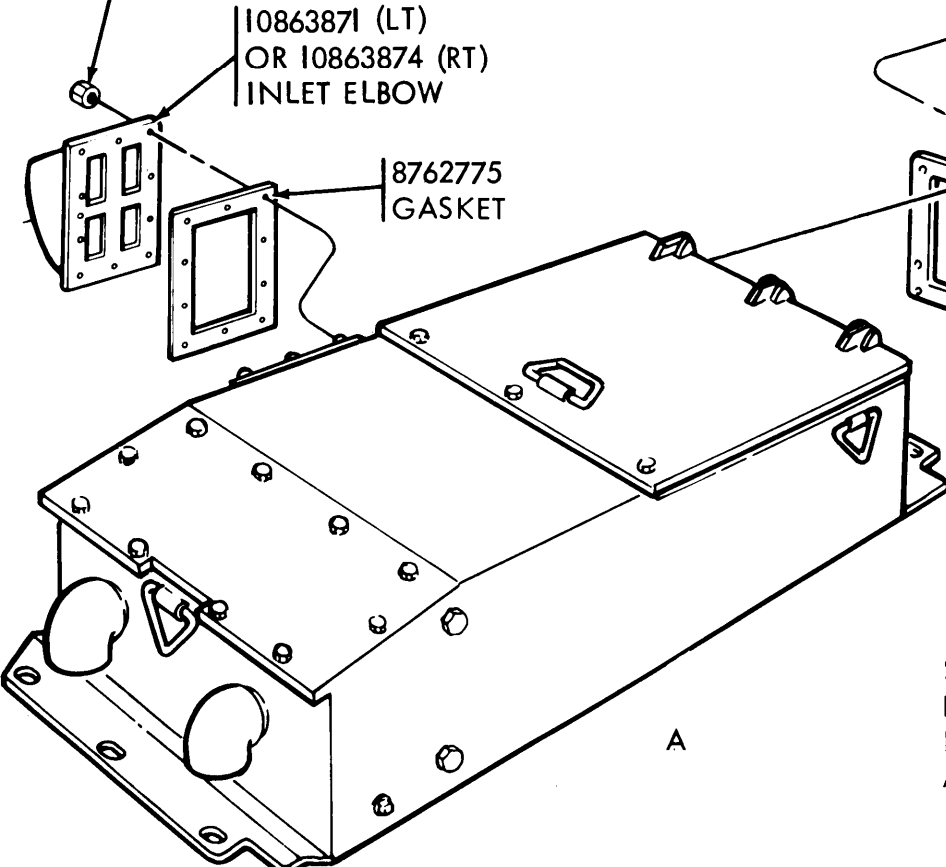
8762789 (LT OR RT)
OR 8762789-1 (RT)
OUTLET ELBOW

(14) MS21044-N6
LOCKNUT

10863871 (LT)
OR 10863874 (RT)
INLET ELBOW

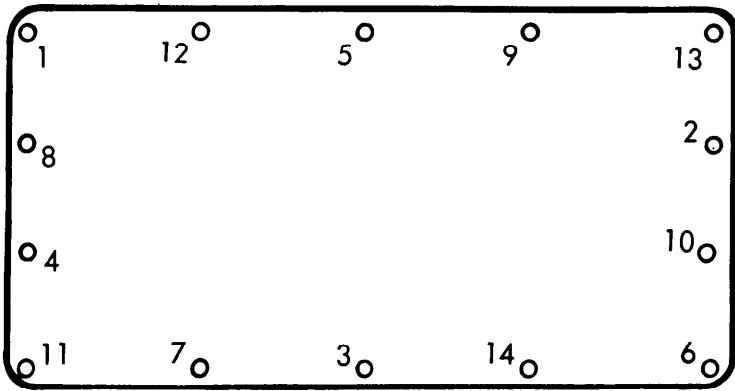
8762775
GASKET

8762779
GASKET



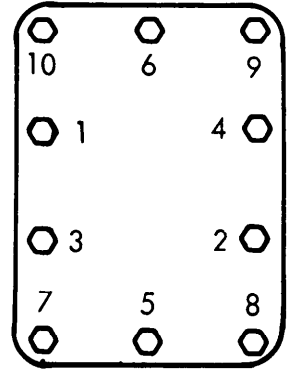
NOTE

SOME VEHICLES MAY BE
EQUIPPED WITH AIR FILTER
RESTRICTION INDICATOR
AS SHOWN ABOVE.



B

OUTLET ELBOW TIGHTENING SEQUENCE



C

INLET ELBOW
TIGHTENING SEQUENCE

Figure 4-24. Armored air cleaner installation (sheet 1 of 5).

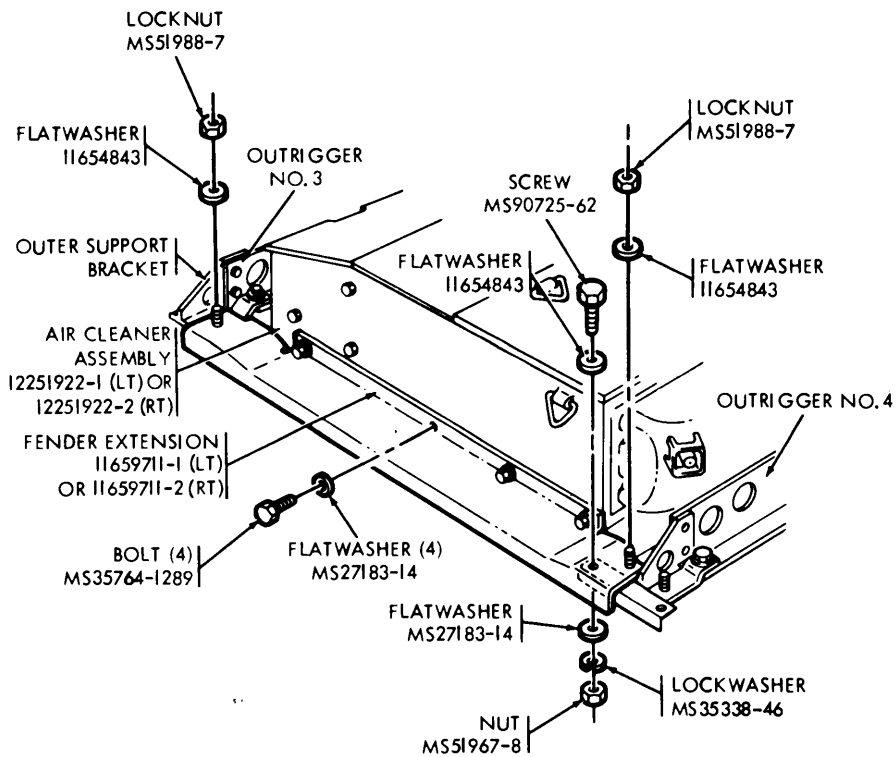
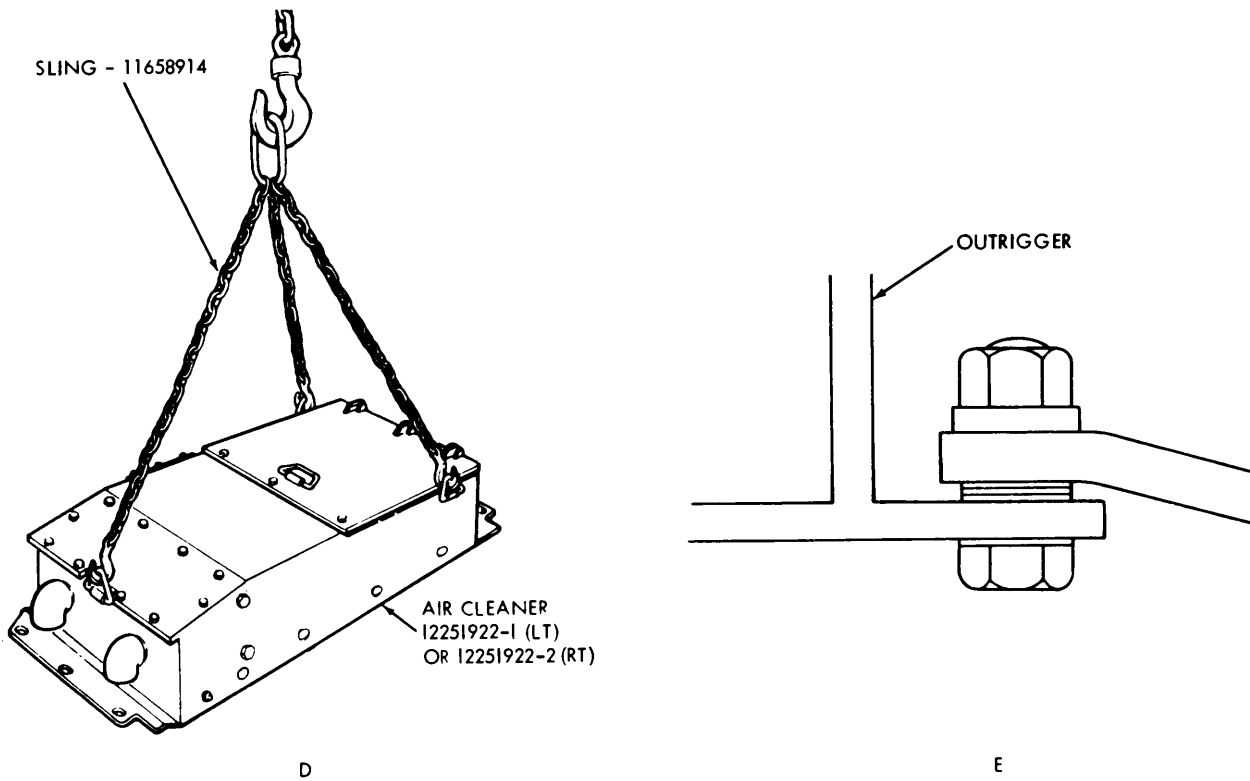
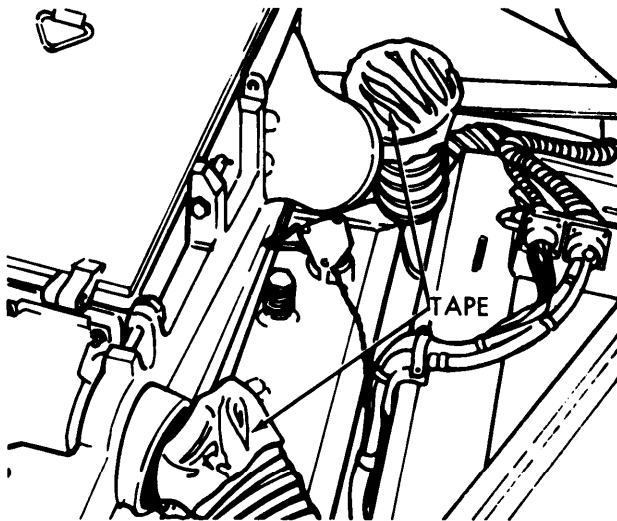
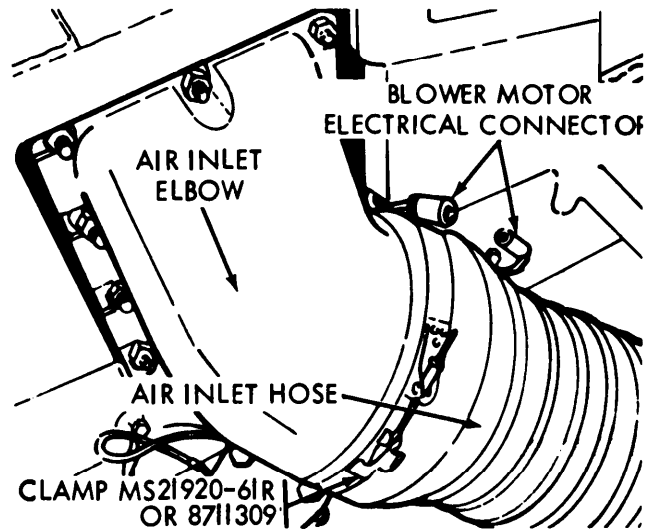


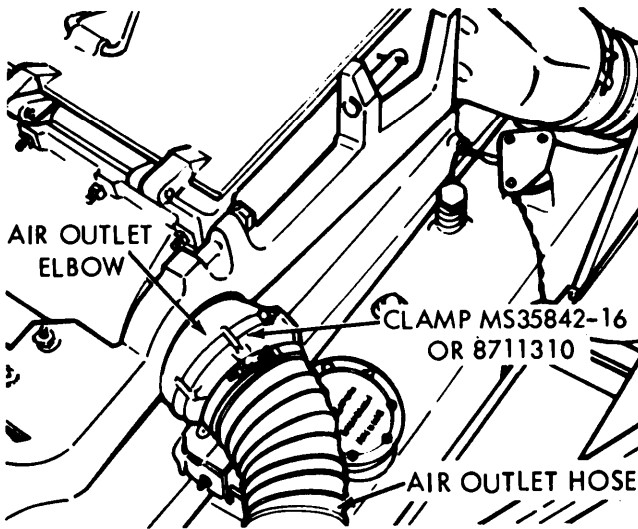
Figure 4-24. Armored air cleaner installation (sheet 2 of 5).



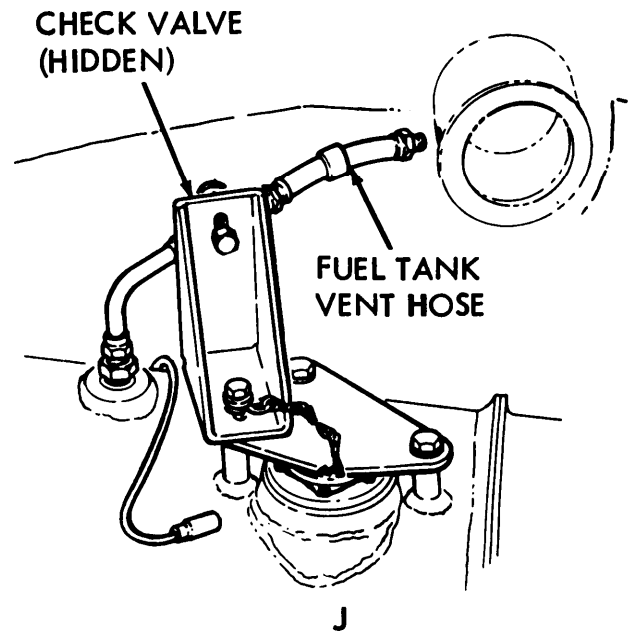
G



H



I



J

Figure 4-24. Armored air cleaner installation (Sheet 3 of 5).

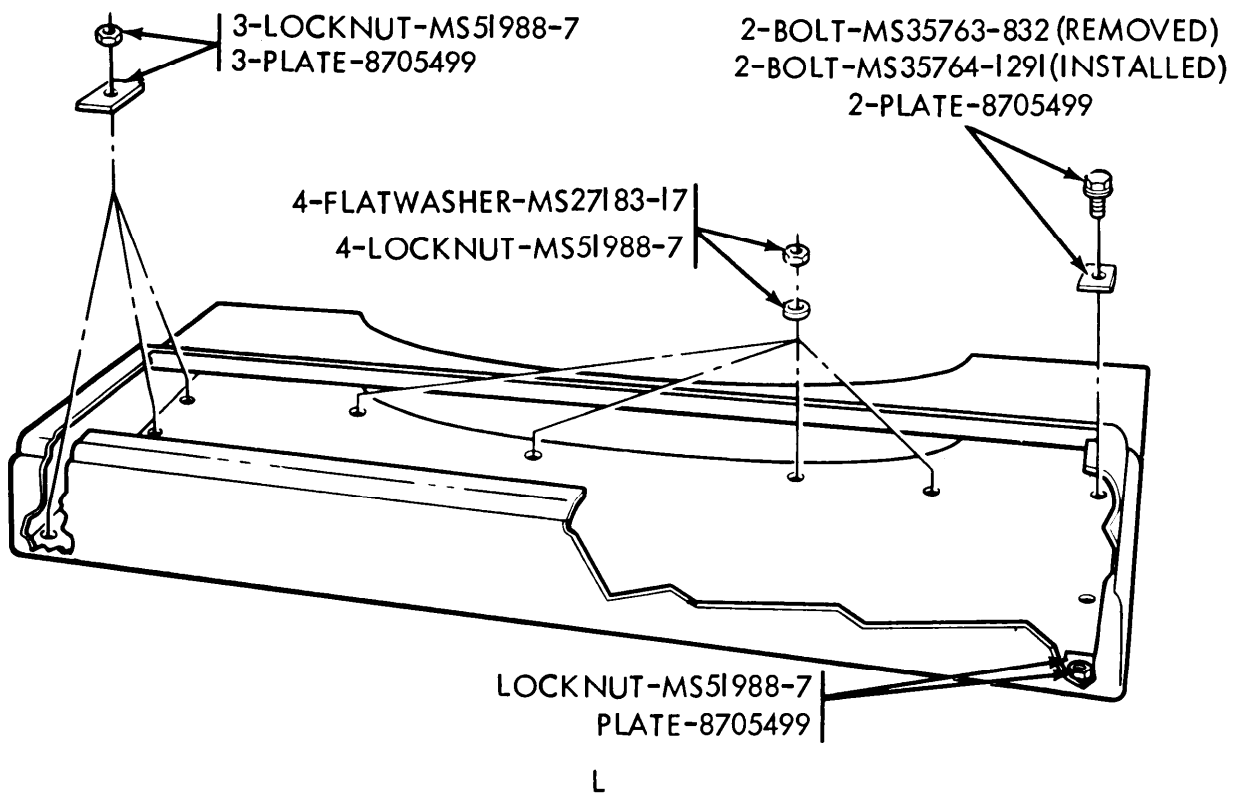
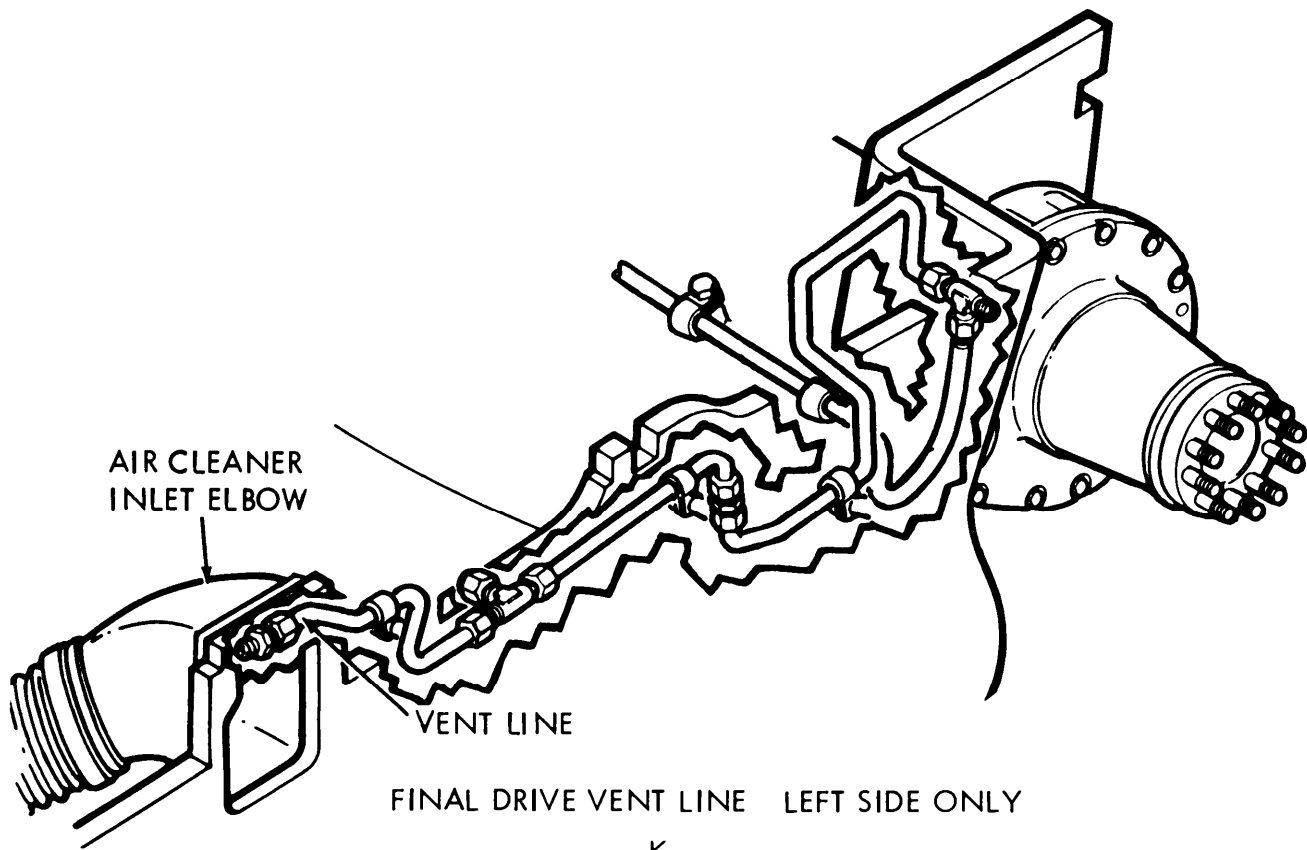


Figure 4-24. Armored air cleaner installation (sheet 4 of 5).

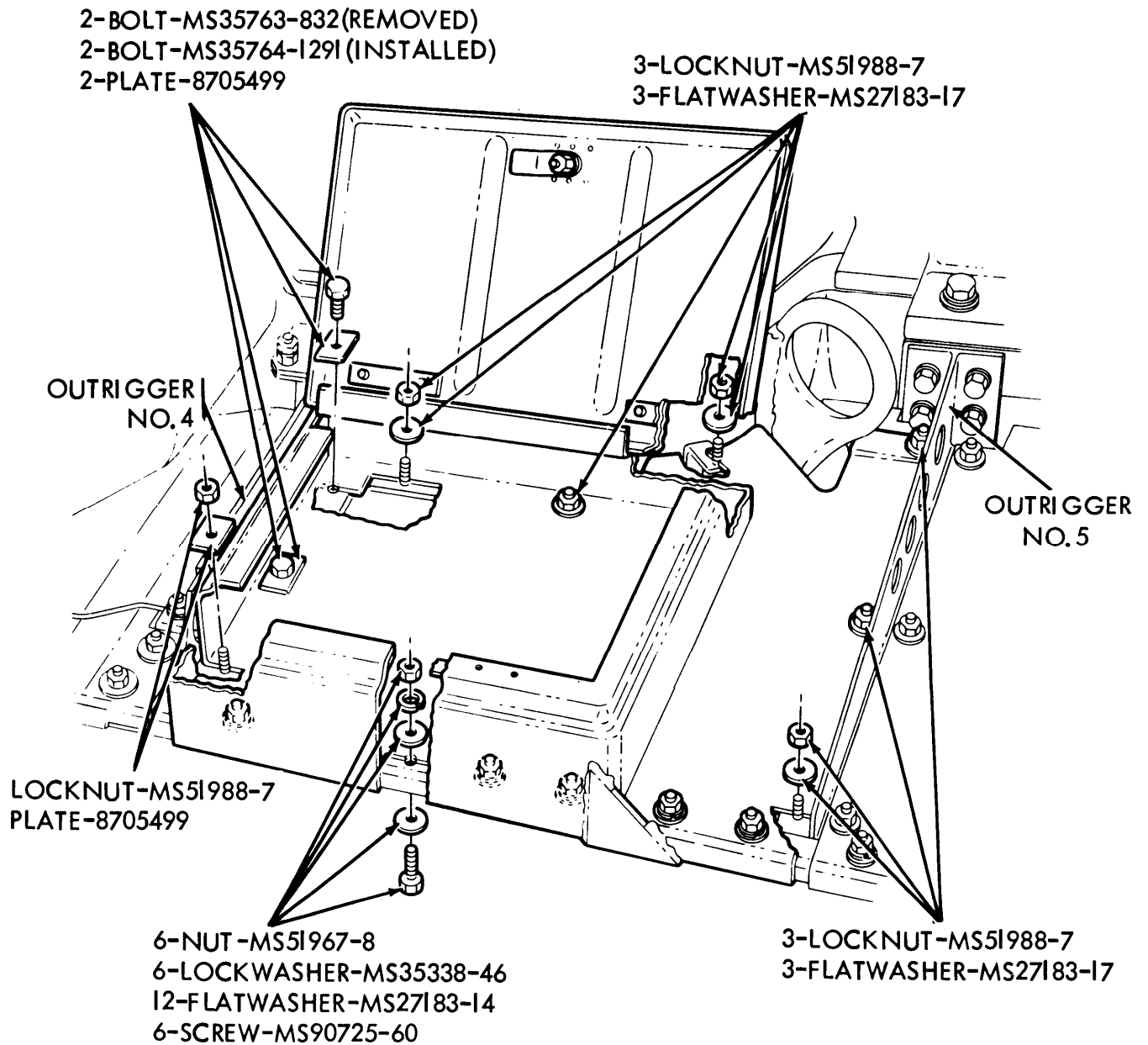


Figure 4-24. Armored air cleaner installation (sheet 5 of 5).

4-11. Top Deck Grille Door Rework.

a. General

Field reports indicate that air cleaner boxes are being damaged by top deck grille doors. This condition usually occurs following air cleaner replacement or after vehicle overhaul. These procedures provide inspection and rework instructions for the grille door hinges to prevent this damage to the air cleaner assembly. Corrective action to eliminate this interference condition is to be performed by DS level maintenance personnel.

b. Procedures (Fig. 4-25).

WARNING

Ensure all ammunition is removed from tank prior to performing modification. Failure to do so can cause death, injury or damage to equipment.

CAUTION

Ensure that prior to traversing turret, the top loading air cleaner doors and ammo rack handles are properly secured. Failure to do so can cause damage to doors or handles.

- (1) Disconnect three ground straps (TM-20).
- (2) Manually traverse turret, so main gun is positioned over right or left stowage box, to gain access to top deck grille doors.

WARNING

Welding in the vicinity of fuel oil and hydraulic fluid is dangerous. Place flameproof material between welding area and fluid carrying components. Cover adjacent components with wet rags or canvas to protect against weld spatter. Station a helper in the immediate area with an approved fire extinguisher before beginning welding operations. Failure to adequately protect against fire can cause injury, death, or damage to equipment. Extreme caution should be exercised to avoid burning air cleaner gasket.

CAUTION

During rework of grille doors, care must be taken to assure the grille door hinges do not strike the air cleaner as the doors are opened.

NOTE

Perform steps 3 through 7 to left and right side of vehicle.

CAUTION

Take special care to protect air induction system hoses and gaskets from weld spatter.

- (3) Cut a piece of cardboard at a 60° angle and use it to check angle between No. 2, 3, and 4 grille door and air cleaner box (view A). Grind or weld stop as shown to correct angle. Make area of contact as large as possible to prevent stop from deforming and changing angularity.
- (4) Check clearances between No. 4 grille door and air cleaner door hinges. Ensure that a clearance of at least 5/8-inch exists (view B). If specified clearance does not exist, grind area on grille door adjacent to air cleaner hinge to obtain specified dimensions.
- (5) Check No. 3 grille door for 1/8-inch clearance between grille door hinge and air cleaner housing (view C). If incorrect, remove door and adjust clearance by grinding door hinges. Install grille doors.
- (6) Check No. 2 grille door for 1/8-inch clearance between grille door hinge and air cleaner housing (view C). If incorrect, grind as required to obtain clearance.

NOTE

Grinding can be accomplished with grille door installed.

- (7) Clean, prime, and paint all bare metal areas.
- (8) Connect three battery ground cables.

CAUTION

Prior to starting engine, check the air cleaner hose clamps for proper installation and that the air cleaner door seal has not been burned during grille door hinge rework. Make sure that the air cleaner door bolts are properly secured. Inspect air inlet and outlet hoses for burns from weld spatter.

- (9) Start engine, check air cleaner blower motor and restriction indicator operation (TM-10).

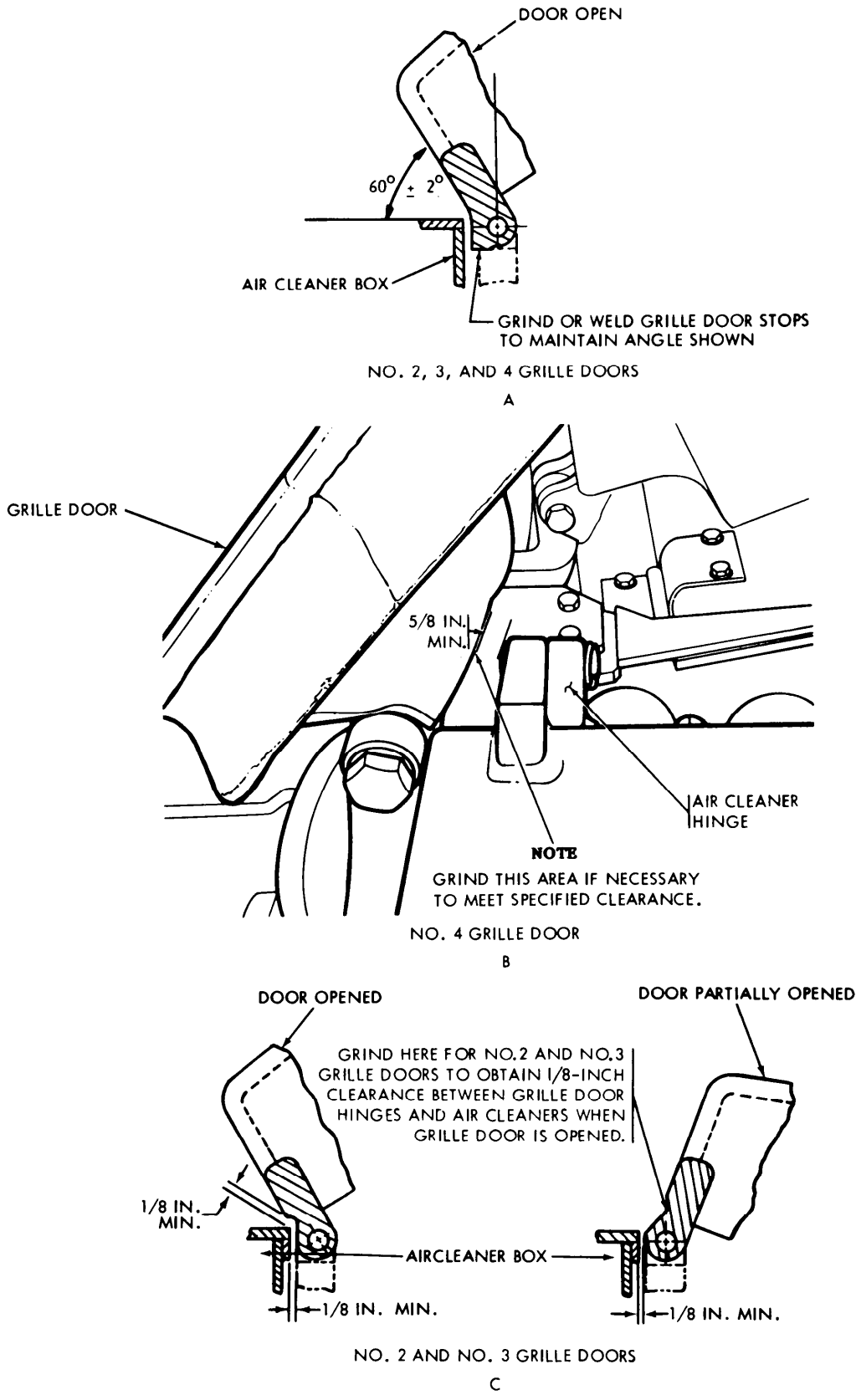


Figure 4-25. Top deck grille door rework.

4-12. Air Cleaner Housing Screw Hole Repair

a. General

Damaged or stripped air cleaner housing screw holes must be repaired to insure proper sealing of the air cleaner door. If damaged or stripped holes occur, perform the following procedure.

b. Procedure

(1) Tools and Equipment Required

- (a) Drill motor
- (b) Drill Bit, letter size "X" (0.397)
- (c) Masking Tape
- (d) Cardboard
- (e) Air-vat Vacuum Tool NSN 7910-00-807-3704
- (f) Rags
- (g) Cutting Oil
- (h) Dry Cleaning Solvent NSN 6850-00-281-1985
- (i) Tool kit, Coil Thread Insert: 3/8-16 UNC NSN 5180-00-935-0734
- (j) Tap and Reamer Wrench
- (k) Approved Eye Protection

(2) Repair. Perform the following to repair housing hole (fig. 4-26).

- (a) Wrap masking tape around tap provided in insert kit so that 1-inch of tap is exposed below tape (view A).
- (b) Fabricate drill stop (view B).
- (c) Remove air cleaner filter element (TM-20).
- (d) Tape cardboard over air outlet port to prevent dust or drilling chips from entering engine (view C).

WARNING

Use approved eye protection during drilling operations to prevent serious eye injury.

- (e) Using drill motor, drill, and fabricated drill stop, drill through stripped screw hole.

CAUTION

Use cutting oil on tap to prevent thread spalling and to minimize tap breakage.

- (f) Using tap, tap wrench, and cutting oil, turn tap into drilled hole until tape contacts housing surface.
- (g) Using vacuum cleaner, rags, and cleaning solvent, remove chips and cutting oil from housing.

- (h) Install 9/16 inch long insert according to instructions in coil thread insert tool kit.
- (i) Inspect access door screws. Replace defective screws with new flanged screw (12290914) NSN: 5306-01-091-3384.
- (j) Remove cardboard and tape from air outlet port.
- (k) Inspect door seal. Replace if defective (TM-20).
- (l) Install air cleaner element (TM-20).

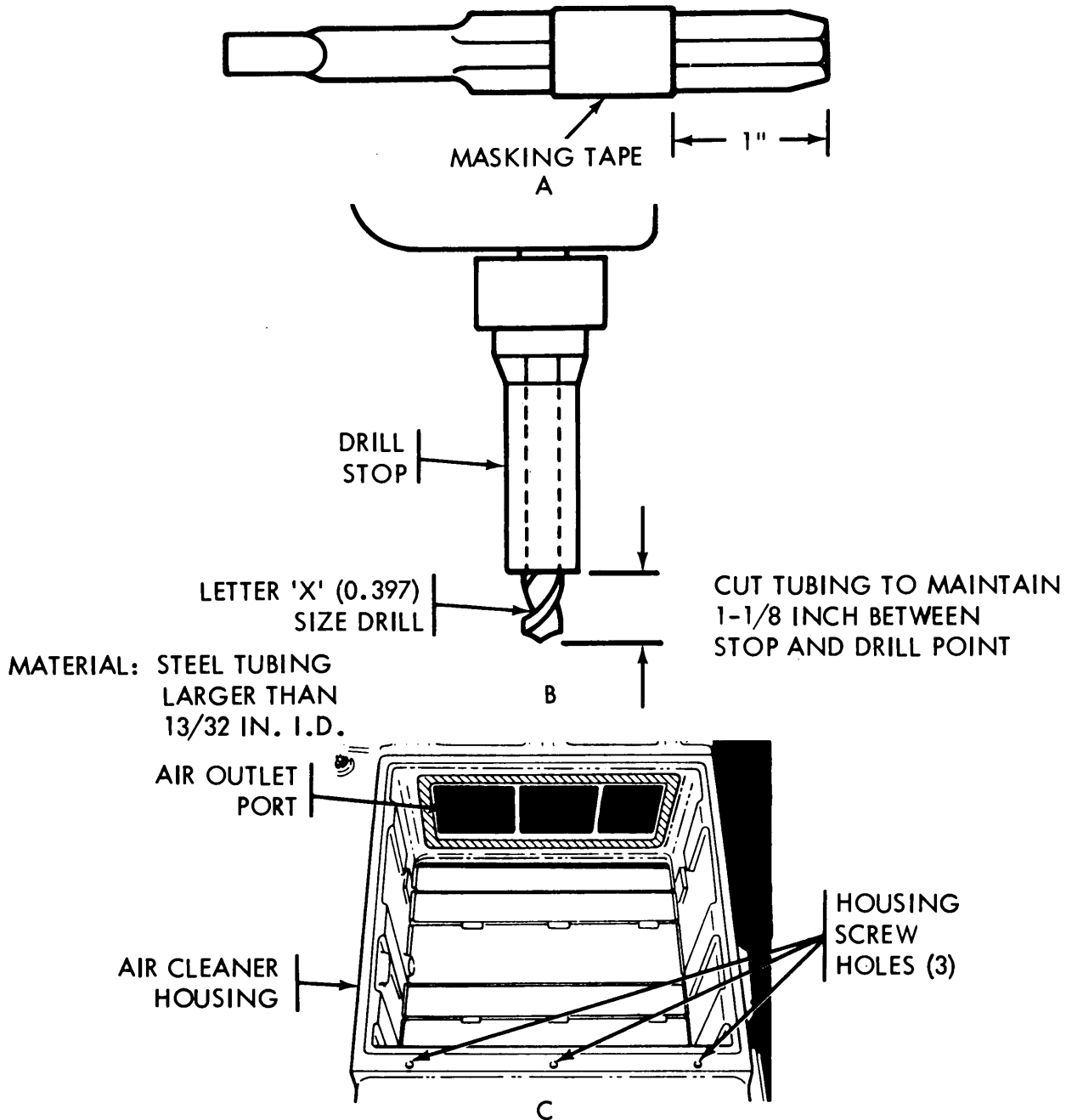


Figure 4-26. Air cleaner housing screw hole repair.

4-13. Air Cleaner Housing Vertical Guide Rework.*a. General.*

Misalignment between the air cleaner housing vertical guide bar and filter element locating pin causes an improper filter seal. To correct this problem the following procedure must be performed.

b. Procedure.

(1) Tools and Equipment Required:

- (a) Primer - NSN 8010-00-161-7425, Spec-TT-P636
- (b) Paint - NSN 8010-00-111-7937, MIL-E-52798
- (c) Air-Vat Vacuum Tool - NSN 7910-00-807-3704
- (d) Hand Grinder - NSN-5310-00-889-8979
- (e) Grinding Wheel - 2" x 1/2", 18500 RPM min for 3/8" arbor.
- (f) Cut-off Wheel - 2" x 1/8", 18500 RPM min for 3/8" arbor.
- (g) Scribe
- (h) Scale or Ruler
- (i) Masking Tape
- (j) Cardboard
- (k) Rags
- (l) Approved Eye Protection

(2) Fabricate template (fig. 4-27).

NOTE

Template can be fabricated to simplify measurement and scribing of guide bar.

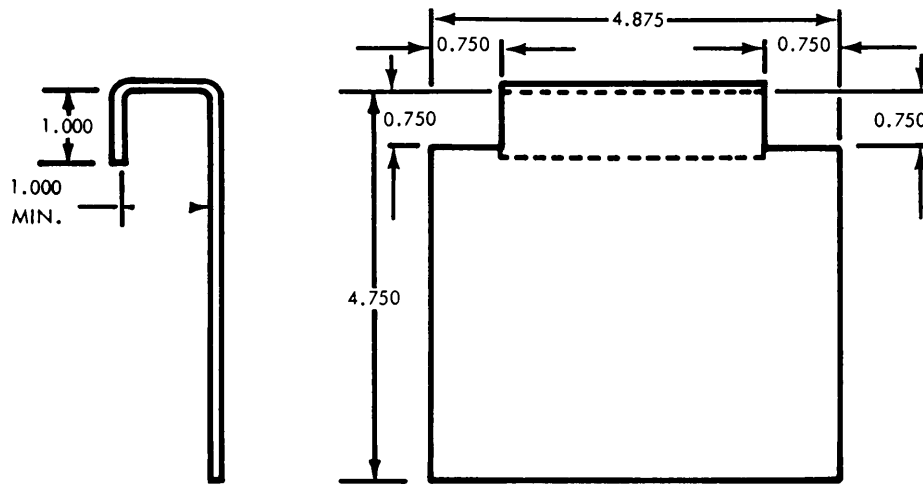
Rework procedure can be accomplished without template by measuring directly on guide bar.

(3) Remove air cleaner filter element (TM-20).

NOTE

If template was fabricated, go to step (4). If template was not fabricated, go to step (5).

(4) Position template on air cleaner housing and scribe left and right vertical guide bars as indicated (view A). Go to step (6).



MATERIAL: 0.050 - 0.120 SHEET STOCK

Figure 4-27. Template fabrication

- (5) Using rule and scribe, scribe left and right vertical guide bars as indicated (view B).
- (6) Tape cardboard to air outlet port to prevent cutting and grinding debris from entering engine.

WARNING

Use approved eye protection during grinding operations to prevent serious eye injury.

- (7) Using hand grinder with cutting wheel, cut along scribed lines through vertical guide bar.
- (8) Cut through weld on backside of guide bar between cut-off line and lower end of bar.
- (9) Replace cut-off wheel with grinding wheel and remove remaining weld in cut-off area.
- (10) Using rags and vacuum cleaner, remove cutting and grinding operation debris.
- (11) Prime and paint bare metal areas.
- (12) After paint has dried, wipe and vacuum inside of air cleaner housing to remove paint overspray residue.
- (13) Remove cardboard and tape from air outlet port.
- (14) Inspect door seal. Replace if defective (TM-20).
- (15) Install air cleaner filter element (TM-20).

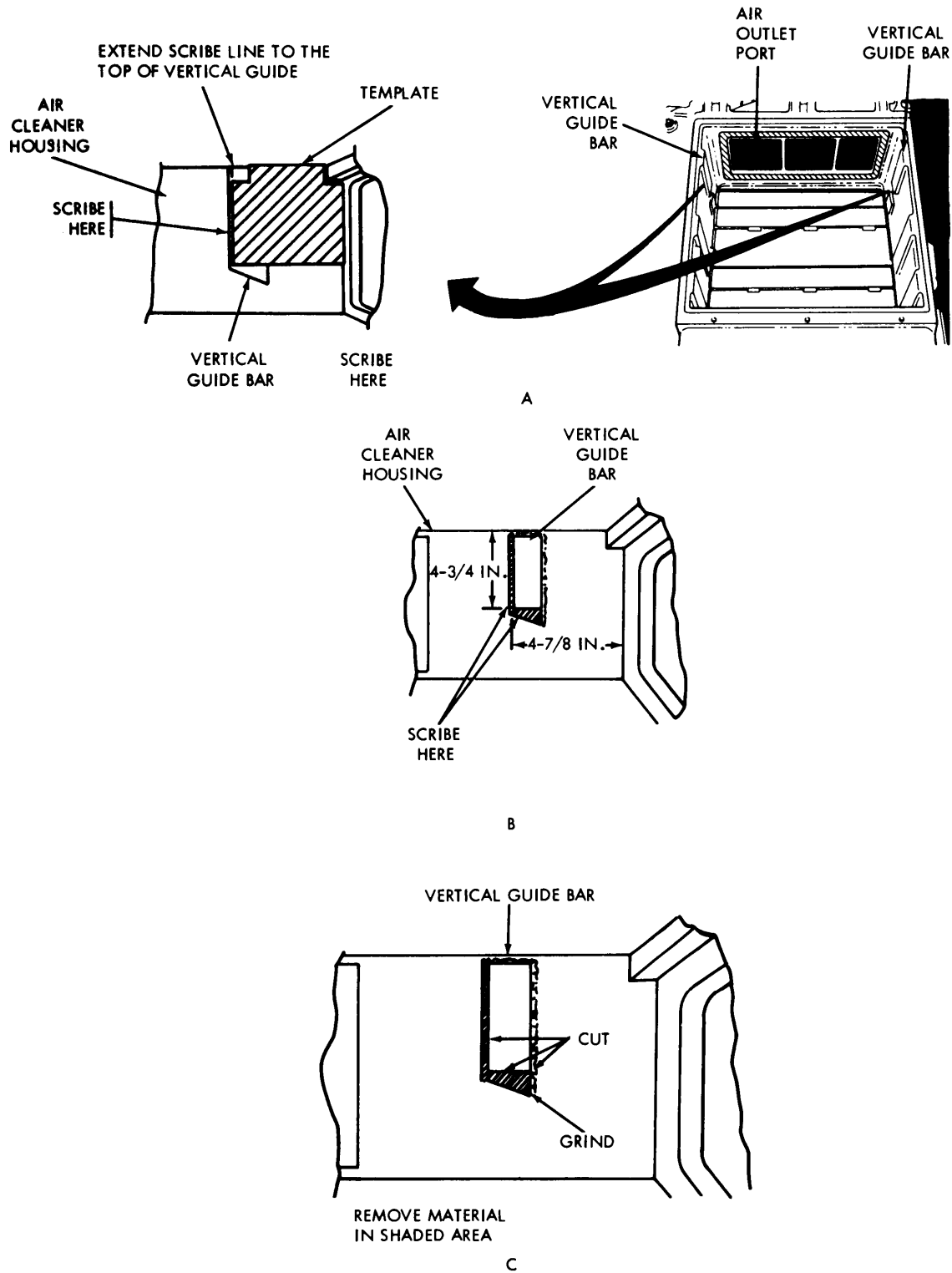


Figure 4-28. Air cleaner housing vertical guide bar network.

CHAPTER 5
IMPROVED CLEAN AIR INDUCTION SYSTEM
CREW OPERATION/MAINTENANCE

5-1. General.

This chapter contains a description, and inspection and maintenance instructions that the crew is authorized to perform to keep the improved clean, air induction system operational. A large percentage of engines have to be replaced because dust, dirt, and foreign material is drawn into the engine due to a defective air induction system. The crew is responsible for the condition of the vehicle. Crew maintenance, for the improved air induction system, is limited to performance of the daily preventive maintenance, checks, and services PMCS. Report all uncorrected defects to organizational maintenance. The crew may perform other maintenance procedures, but only under the direction of organizational maintenance.

5-2. Improved Clean Air System.

- a. *General.* The improved clean air system operates essentially the same way as conventional system, but incorporates improved air induction components, a dust ejector system that takes the place of the air cleaner centrifugal fans, and a dust detector.
- b. *Improved Air Induction Components.* Improved air induction components include reduced restriction inlet and outlet elbows and hoses, improved clamps, improved gaskets and studs, spring loaded filter element, and late model filter clog indicator.
- c. *Vehicle Exhaust Dust Ejector System (VEDES).* The vehicle exhaust dust ejector system (VEDES) (fig. 5-1) replaces the air cleaner centrifugal fans. The air cleaner housing is modified to plug the fan exhaust elbows and to accommodate a tube manifold with its associated hoses, clamps, and mounting bracket installed in place of the fans. A system of dust scavenge tubes, check valves, and exhaust pipes with integral dust ejectors is mounted along each cylinder bank above and parallel to the engine and transmission oil coolers. VEDES scavenges dust from the precleaned section of the air cleaners through suction action of the exhaust ejectors.

Engine exhaust blowing by ejector nozzles at the exhaust outlet causes a pressure drop which creates the air flow for the scavenging action in the precleaners. Dust-laden scavenge air flows from the precleaned chamber through the ejector collector ring and mixes with the exhaust gasses at the nozzle outlet, after which the exhaust/dust mixture is ejected through the exhaust pipe.

- d. *Dust Detector.* The dust detector system (fig. 5-2) uses engine air induction manifold pressure to circulate air through filter strips in the dust detectors mounted in the turbo supercharger compressor housing. When the filter strip(s) become clogged, the resultant change in pressure actuates a pressure switch which illuminates the power plant warning light and the dust detector warning light in the driver's compartment. A dust detector warning light ON indicates a restricted falter strip in either or both engine bank dust detectors.

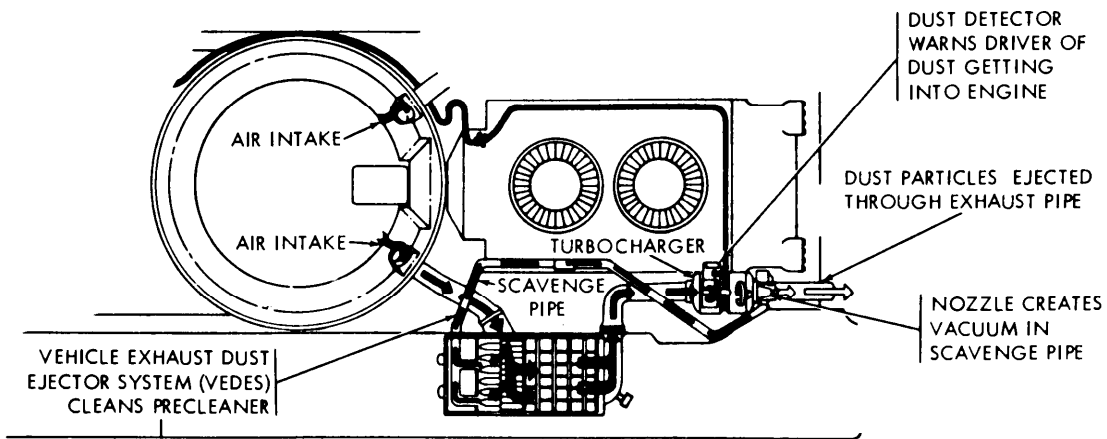


Figure 5-1. Vehicle exhaust dust ejector system (VEDES).

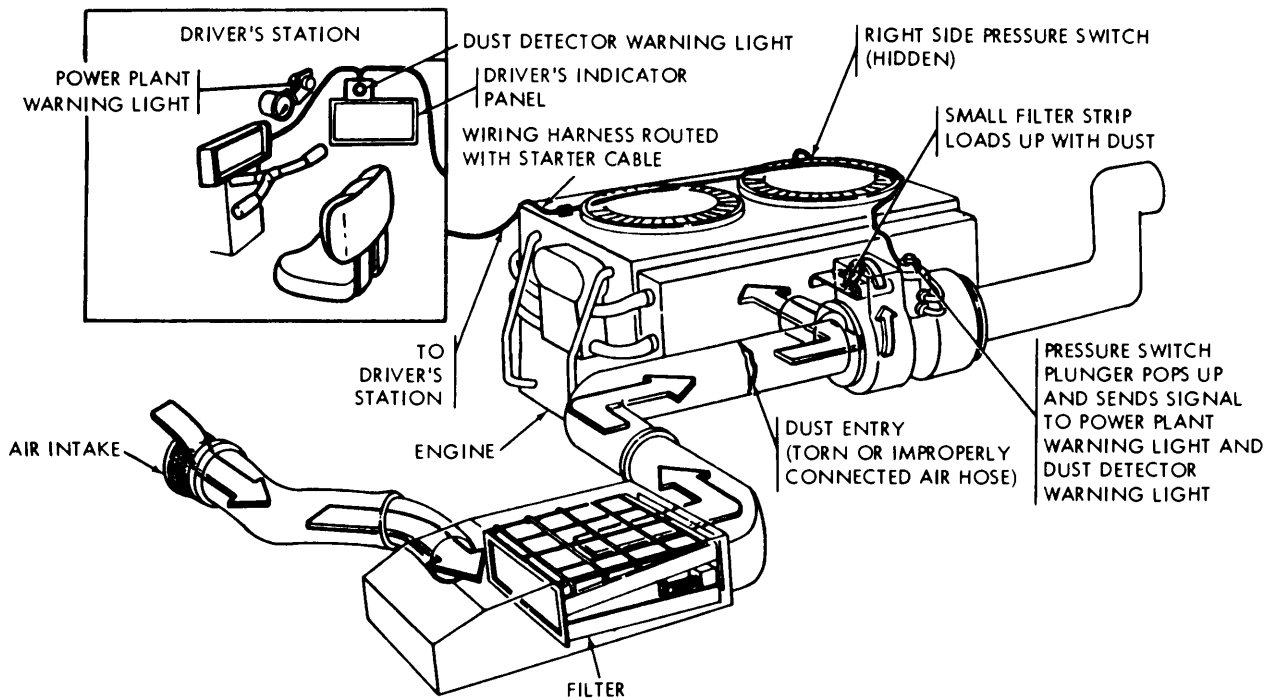


Figure 5-2. Dust detector system.

5-3. Air Cleaner Filter Clog Indicator.

a. General.

The air cleaner filter clog indicator provides a visual means of determining when the air cleaner filter element must be serviced without actually opening the air cleaner box and inspecting the filter element. Two models of indicators are presently being used (fig. 5-3).

b. Checking.

To determine if air filter element needs servicing.
Check indication on air restriction indicator.

Early Model - If red disk is visible, notify organizational maintenance

Late Model - If reading is more than 25, notify organizational maintenance

5-4. Engine Air Intake (fig. 5-4).

a. General.

During normal and water fording operations, the engine air intakes (view A) must be positioned to draw air from the crew compartment. During extreme cold or an NBC attack alert, the engine air intakes must be reversed to draw air from the engine compartment (para. 5-4b).

b. Reversal Procedure.

- (1) Remove four screws and washers and cover (view A). A gasket is cemented to cover.
- (2) Remove six nuts and washers (view B).
- (3) Remove eight nuts and washers.
- (4) Remove intake from bulkhead.
- (5) Install six nuts and washers on studs (view C).
- (6) Install eight nuts and washers on studs (view D).
- (7) Position cover on intake and install four screws and washers.
- (8) Install eight nuts and washers on studs. (View D).
- (9) Position cover on intake and install four screws and washers.

5-5. Preventive Maintenance Checks and Services (PMCS).

The following PMCS table lists checks and services that are to be performed on a daily basis to find, correct, or report problems that are caused by normal wear and tear.

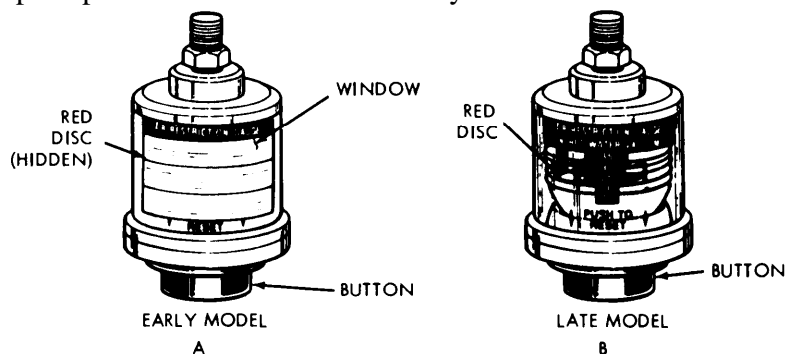


Figure 5-3. Air cleaner filter clog indicator.

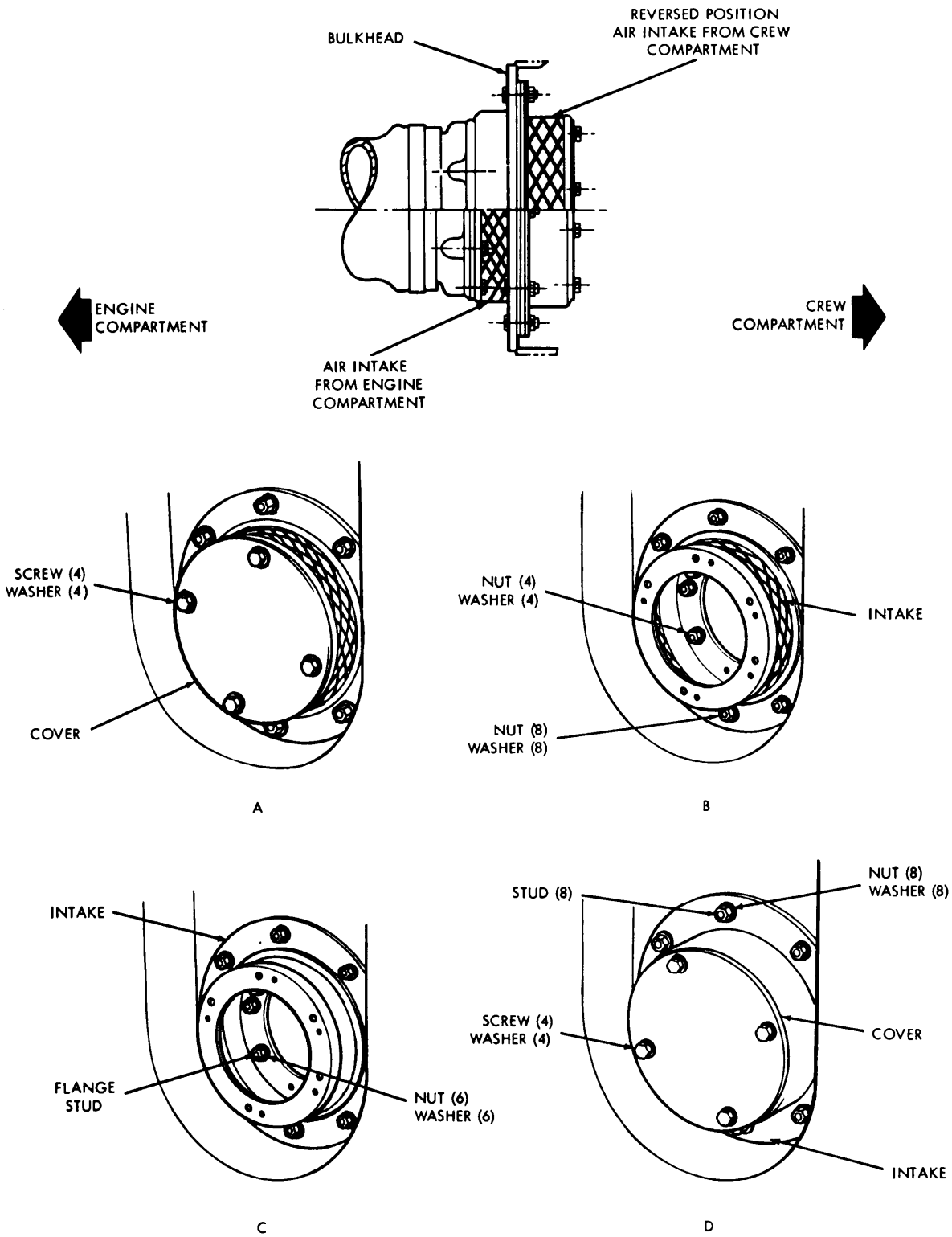
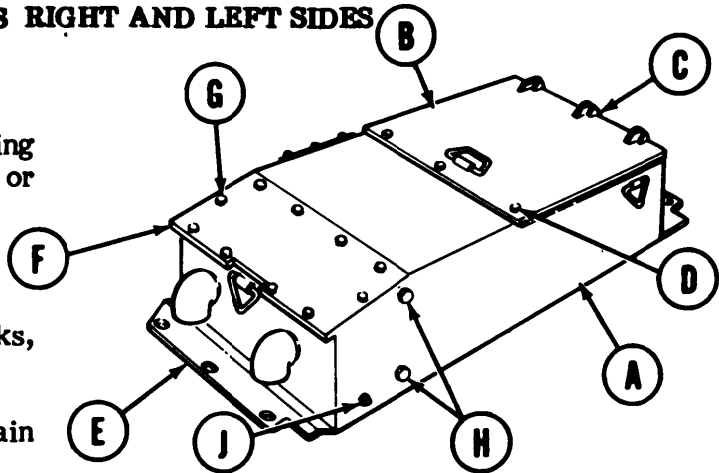


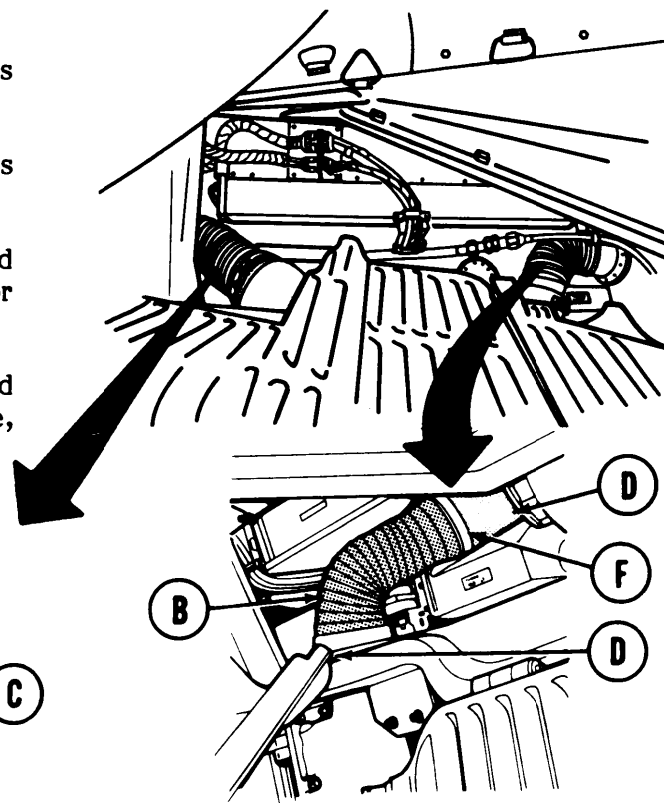
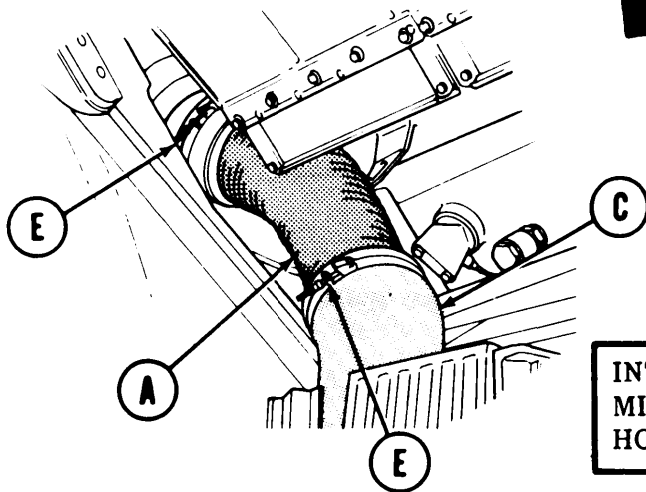
Figure 5-4. Engine air intake reversal.

Preventive Maintenance Checks and Services

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED | DAILY | EQUIPMENT IS NOT READY/AVAILABLE IF - |
|------|--------|--------|-------|---|--------------------------------|---|
| | | | | Procedure | (required only if you operate) | |
| | | | | <p align="center">AIR CLEANER HOUSINGS AND DOORS RIGHT AND LEFT SIDES</p> | | |
| 1. | • | | | Inspect housing (A) for cracks and dents. | |  <p>CRACKED OR DENTED HOUSING. ANY DAMAGED OR MISSING AIR CLEANER DOOR OR DOOR FASTENERS. ANY MISSING DRAIN OR INSPECTION PLUGS. BROKEN OR BENT DOOR HINGES. ACCESS PLATE MISSING.</p> |
| 2. | • | | | Check door (B), hinges (C), door locking bolts or fastener (D) for cracks, broken or missing parts. | | |
| 3. | • | | | Check base plate (E) for cracks. | | |
| 4. | • | | | Check access plate (F) for cracks, looseness or missing mounting bolts (G). | | |
| 5. | • | | | Check that inspection plugs (H) and drain plug (J) are not missing. | | |

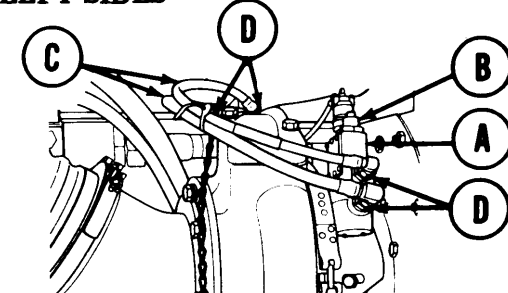
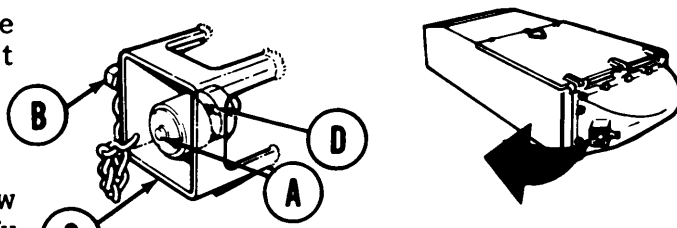
AIR CLEANER ELBOWS, HOSES AND CLAMPS, RIGHT AND LEFT SIDES

6. • Check that air cleaner intake hose (A) is not damaged or missing.
7. • Check that air cleaner outlet hose (B) is not damaged or missing.
8. • Check that intake hose elbow (C) and outlet hose elbow (D) is not loose or damaged.
9. • Check that intake hose clamps (E) and outlet hose clamps (F) are not loose, broken or missing.

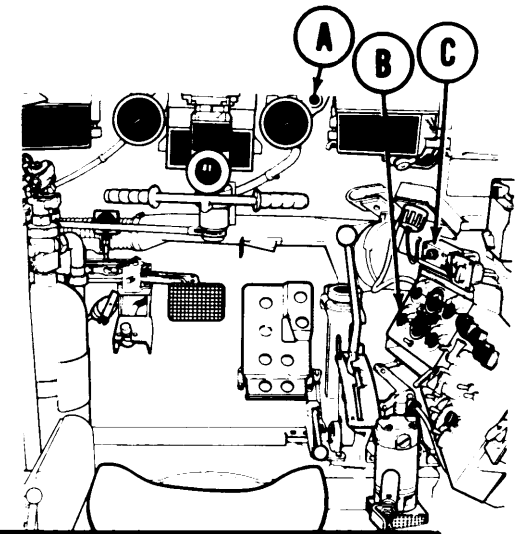


**INTAKE OR OUTLET HOSE DAMAGED OR MISSING. ELBOWS LOOSE OR DAMAGED
HOSE CLAMPS LOOSE, BROKEN OR MISSING.**

Preventive Maintenance Checks and Services

| ITEM | BEFORE | DURING | AFTER | ITEM TO BE INSPECTED | DAILY | EQUIPMENT IS NOT | |
|------|--------|--------|-------|--|---|---|---|
| | | | | Procedure | (required only if you operate) | READY/AVAILABLE IF - | |
| 10. | • | | | <p>DUST DETECTOR PRESSURE SWITCH - RIGHT AND LEFT SIDES</p> <p>Inspect dust detector pressure switch (A) for security of mounting. Check that red plunger is not visible. If red plunger is visible, notify Organizational Maintenance.</p> <p>Check that wiring harness (B) is connected.</p> <p>Check that hoses (C) are not damaged or missing.</p> <p>Check that fittings (D) are secure.</p> <p>FILTER CLOG INDICATORS (RIGHT AND LEFT SIDES)</p> <p>Check that filter clog indicator (A), pipe plug (B) or clog indicator guard (C) are not damaged or missing.</p> <p>Check indicator reading.</p> <p>Early model - filter clog indicator window (D) should not show red. If red, notify organizational maintenance.</p> <p>Late model - A reading of 30 or more means that the filter element requires cleaning. Notify Organizational Maintenance. A reading of 25 indicates that the elements should be cleaned before any extensive move.</p> |  | <p>SWITCH RED PLUNGER IS VISIBLE</p>  | |
| 11. | • | | | | | | <p>BOTH FILTER CLOG INDICATOR AND PIPE PLUG ARE MISSING.</p> <p>EARLY MODEL - FILTER CLOG INDICATOR SHOWS RED.</p> <p>LATE MODEL - SHOWS 30 OR MORE.</p> |
| 12. | • | | | | | | |
| 13. | • | | | | | | |
| 14. | • | | | | | | |
| 15. | • | • | | | | | |

16. • **POWER PLANT WARNING LIGHT (ENGINE RUNNING)**
 Check power plant warning light (A), frequently to make sure it is not lit. If light (A) is lit, immediately check ENGINE OIL PRESSURE, ENGINE OIL TEMPERATURE, TRANSMISSION OIL PRESSURE and TRANSMISSION OIL TEMPERATURE gages on driver's indicator panel (B) and the DUST DETECTOR WARNING LIGHT (C).
17. • **POWER PLANT WARNING LIGHT (ENGINE RUNNING)**
 Check that DUST DETECTOR WARNING LIGHT (C) is out. Press lens cap in to check. If lamp does not light, replace lamp. If light is on, notify Organizational Maintenance.
DURING PERIOD OF OPERATION, LOOK FOR THESE INDICATIONS OF A DIRTY AIR INDUCTION SYSTEM.
18. • Exhaust smoke is excessively black.
19. • Air restriction indicator shows a red window or a high reading or no reading at all. See restriction indicators (para. 5-3) for detailed instructions.
20. • Noticeable loss of engine power.



DUST DETECTOR WARNING LIGHT IS ON

EARLY MODEL - RESTRICTION INDICATOR INDICATES RED, LATE MODEL - SHOWS 30 INCHES OR MORE

CHAPTER 6**IMPROVED CLEAN AIR INDUCTION SYSTEM
ORGANIZATIONAL MAINTENANCE****Section I. Description****6-1. General**

This chapter provides Organizational Maintenance PMCS, troubleshooting and maintenance procedures required to support vehicles equipped with the improved clean air induction system.

6-2. Description

Refer to paragraph 5-2 for a description of the improved clean air induction system.

Section II. Preventive Maintenance checks and Services (PMCS)**6-3. General**

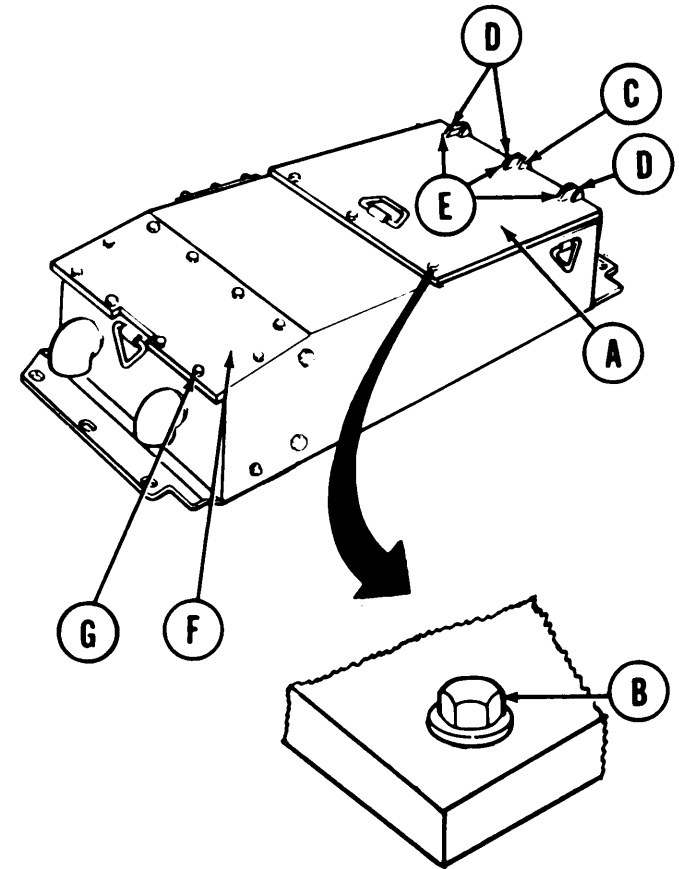
Preventive maintenance is the systematic care, inspection, and service of equipment to maintain a serviceable condition and detect faults and failures before extensive time consuming repairs are required.

6-4. Procedures

Table 6-1 provides additional PMCS requirements that must be performed to support vehicles equipped with the improved clean air induction system.

Table 6-1. Improved Clean Air Induction System - Organizational Maintenance Quarterly Preventive Maintenance Checks and Services

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES |
|----------|-------------------------------------|--|
| 1 | Air Cleaners (right and left sides) | Check air cleaner door (A) for loose, or missing screws (B) |
| 2 | | Make sure screw holes are free of dirt. |
| 3 | | Check that clevis pins (C) and cotter pins (D) are not missing from door hinges (E). |
| 4 | | Check that door hinges (E) are not cracked. |
| 5 | | Check that access plate (F) mounting screws (G) are not loose or missing. |



**Air Cleaners
(right and left
sides)
(continued)**

6
7
8
9

Remove access plate (H).

Check that four clamps (J) are not loose, damaged, or missing.

Check that two hoses (K) are not damaged or loose.

Check that six mounting screws (L) are not loose or missing.

Check that manifold tube (M) is not damaged.

Install access plate (H).

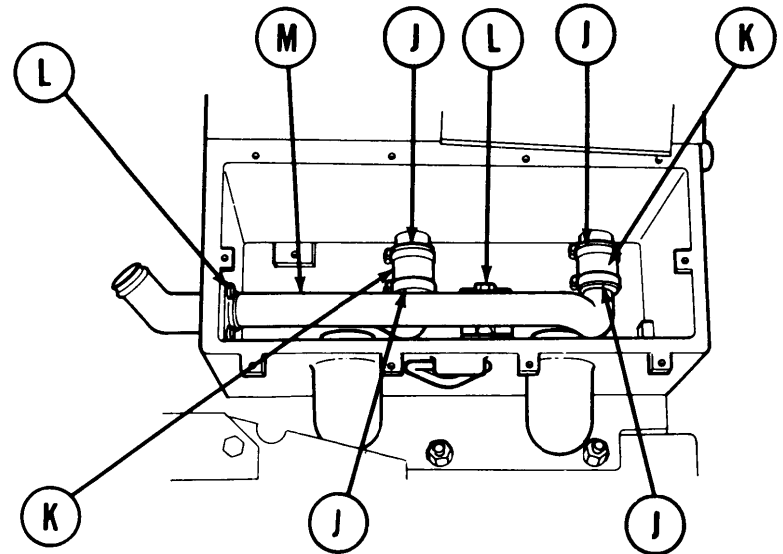
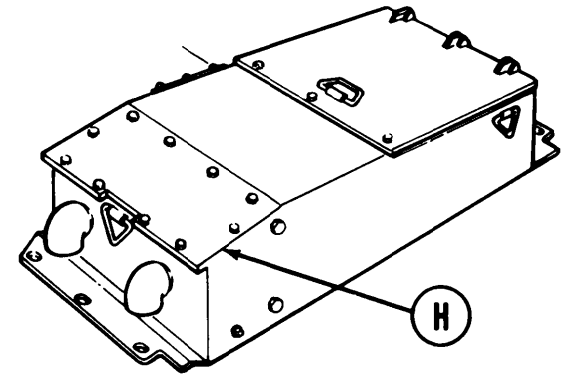
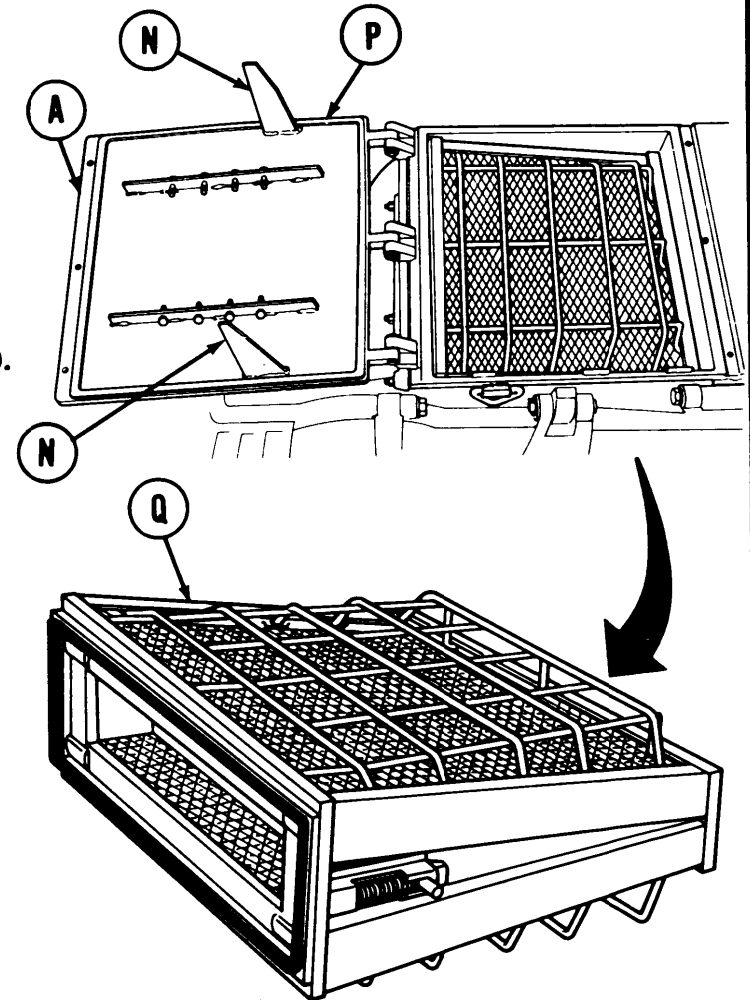


Table 6-1. Improved Clean Air Induction System - Organizational Maintenance Quarterly Preventive Maintenance Checks and Services (Continued)

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES |
|----------|---|---|
| 10 | Air Cleaners (right and left sides) (continued) | Open air cleaner door (A). |
| 11 | | Check that door cam arms (N) are not bent or cracked. |
| 12 | | Check that air cleaner door seal (P) is not hardened, damaged or missing. |
| 13 | | Check that filter element (Q) is not damaged or missing. |
| 13 | | Service air cleaner filter (para. 6-15). |
| | | Remove air cleaner outlet hose (para. 6-11 a). |



14 Air Cleaner
Elbows, Hoses,
and Clamps
(left and right
sides)

Check that outlet hose (A) is not cracked,
torn, or leaking, and that clamps (B) are
not loose or missing.

15 Check that V-band clamp (c) and quick
release V-band clamp (D) are not loose or
missing.

16 Check that preformed packings (E) are not
hardened, cracked, or missing.

17 Check that turbocharger elbow (F), gasket
(G), washers (H), and nuts (J) are not
damaged or missing.

18 Check that outlet elbow (K), inlet elbow (L),
gaskets (M), and mounting nuts (N) are not
damaged or missing.

19 Check that inlet hose (P) is not torn or
damaged, and that clamps (Q) are not
damaged, loose, or missing.

Install air cleaner outlet hose (para. 6-11b).

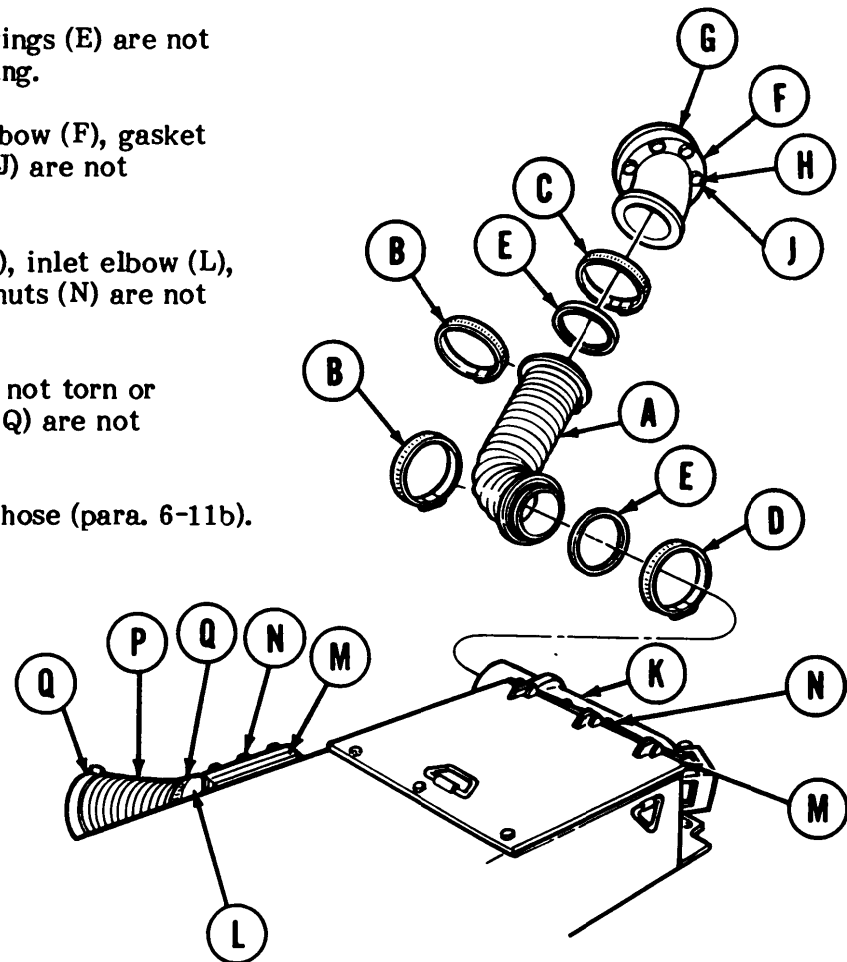
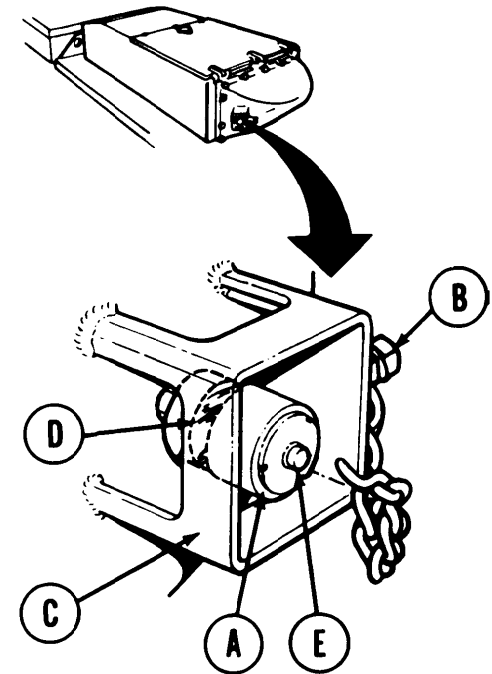


Table 6-1. Improved Clean Air Induction System - Organizational Maintenance Quarterly Preventive Maintenance Checks and Services

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES |
|----------|---|---|
| 20 | Air Cleaner Filter Clog Indicators (left and right sides) | <p>Using fingers, check if filter clog indicator (A) is loose or missing. If loose tighten finger tight.</p> <p>NOTE Filter clog indicator must be present. If indicator is not installed, plug (B) must be installed in place of indicator (A) until indicator (A) is available.</p> |
| 21 | | <p>Check indicator (A) for cracks. Check that pipe plug (B) is not missing. Check that clog indicator guard (C) is not missing or damaged.</p> |
| 22 | | <p>Check indicator reading in window (D). Late Model - A reading of 30 or more means that the filters require cleaning. A reading of 25 indicates that the elements should be cleaned before any extensive move.</p> <p>WARNING Make sure area around vehicle is clear of personnel and equipment before performing the following step.</p> <p>Early Model - Start engine, apply vehicle brakes, put transmission lever in high gear, accelerate to 1800/1900 rpm for no more than 30 seconds, and check filter clog indicator reading. If window (D) shows red, press reset button (E) and repeat procedure above. If window shows red again, clean or replace filter element. If button (E) won't depress, filter clog indicator (A) is defective and must be replaced (para 6-14d).</p> |



Dust Detector
Filter Strip
(right and
left sides)

NOTE

Service dust detector filter strip quarterly, or after 750 miles operation, or whenever dust detector indicated ingestion of foreign matter.

23

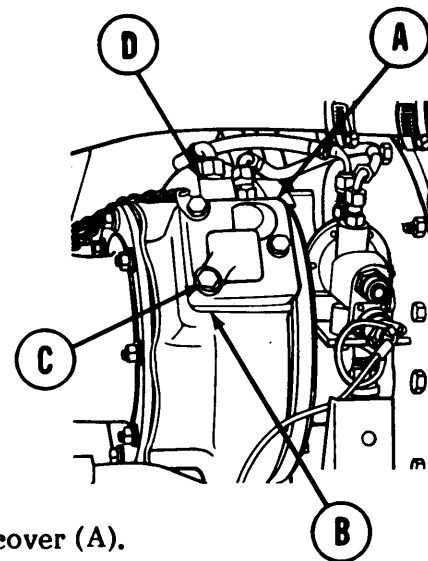
Open top deck grille doors (TM-10).

24

Remove dust and dirt from filter strips cover (A) and compressor housing (B).

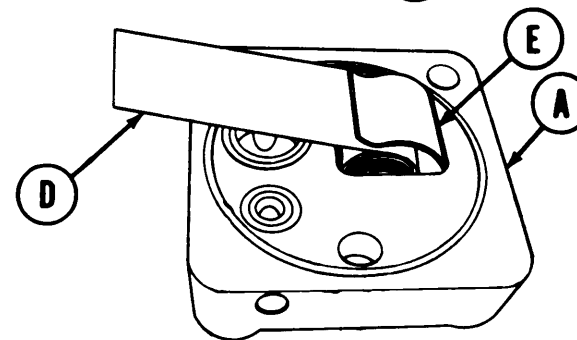
25

Loosen three captive screw (C) securing filter strip cover (A) to compressor housing (B). Remove cover (A).



26

Remove filter strip (D) with retainer (E) from filter strip cover (A) (para. 6-17a).



27

Inspect compressor housing chamber (F) for contamination.

28

Using pipe cleaner (item 7, appendix C), clean compressor housing chamber and orifice (F). Use small (not more than 0.030 inch dia.) wire to clean orifice (G). Blow out chamber (F) and orifice (G) by mouth using a short piece of tubing.

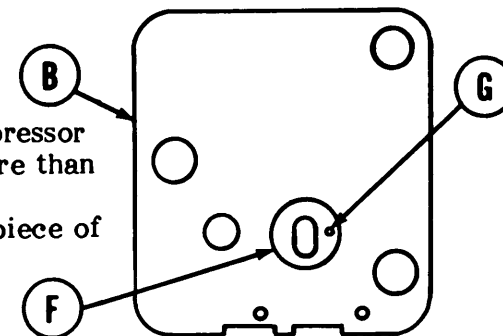
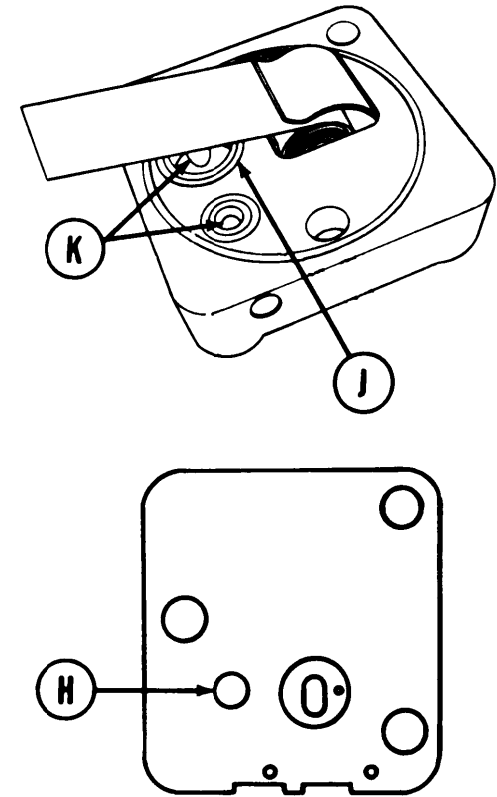


Table 6-1. Improved Clean Air Induction System - Organizational Maintenance Quarterly Preventive Maintenance Checks and Services (Continued)

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES |
|----------|---|--|
| 29 | Dest Detector Filter Strip (right and left sides) (continued) | Blow out (by mouth) compressor housing hole (H) |
| 30 | | Inspect cover chamber (J) for contamination. Clean chamber (J) as required. |
| 31 | | Using pipe cleaner (item 7, appendix C, clean drilled holes (K) and blow out (by mouth). |



32 Dust Detector
Filter Strip
(right and
left sides)
(continued)

Replace three preformed packings (L)

33

Service dust detector filter strip (D).

NOTE

Make sure all orifices are clean.

Cut off approximately two inches from end of filter strip (D).

Pull filter strip (D) so that approximately 1/2 inch will extend past edge of cover (A) when filter strip is installed.

Install filter strip (D) and retainer (E) in cover (A). Filter strip (D) must be approximately 1/2 inch past edge of cover (A).

Install cover (A). Finger tighten three captive screws (C).

Perform dust detector operational test (para. 6-17j).

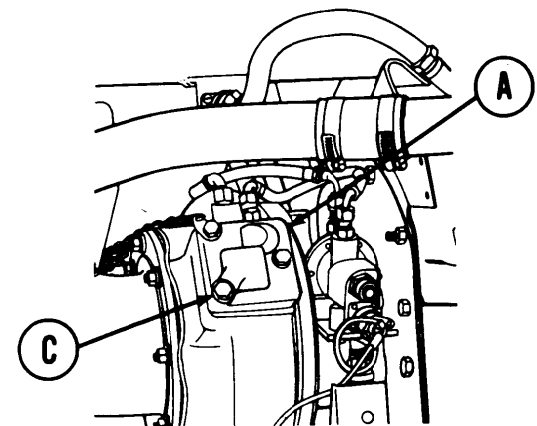
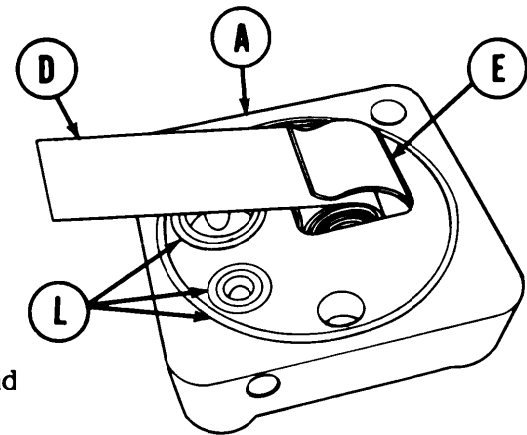
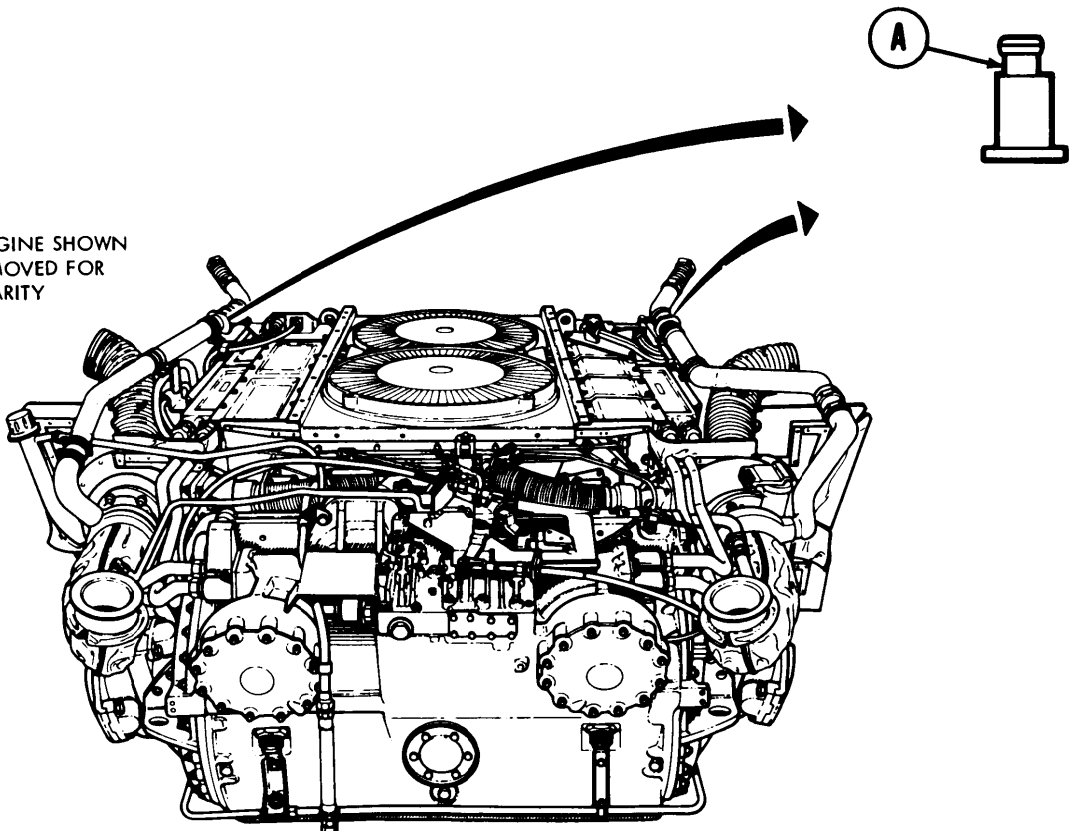


Table 6-1. Improved Clean Air Induction System - Organizational Maintenance Quarterly Preventive Maintenance Checks and Services (Continued)

| ITEM NO. | ITEM TO BE INSPECTED | PROCEDURES |
|----------|--------------------------------------|--|
| 34 | Vehicle Exhaust Dust Ejector (VEDES) | <p>Remove check valve (A) (para 6-16b).</p> <p>Inspect check valve (A) to make sure flapper is not sticking or broken. If sticking or broken, install new check valve (para. 6-16b).</p> <p>Install check valve (A) (para. 6-16b).</p> <p>ENGINE SHOWN REMOVED FOR CLARITY</p>  <p>The diagram shows a top-down view of an engine with various components. Two curved arrows point from the top of the engine to a separate, detailed view of a check valve labeled 'A'. The check valve is a cylindrical component with a flapper on top. The text 'ENGINE SHOWN REMOVED FOR CLARITY' is positioned to the left of the engine diagram.</p> |

35 Vehicle
Exhaust
Dust Ejector
System
(VEDES)
(continued)

Check all hoses and hose clamps (A) for security. Intake hoses (B) may be loosely installed at this time. Check that hoses are not cracked, torn or otherwise damaged or deteriorated.

36

Check all tube support clamps and brackets (C) for security. Check both check valves (D) for missing screws, loose clamps, or bad gaskets.

37

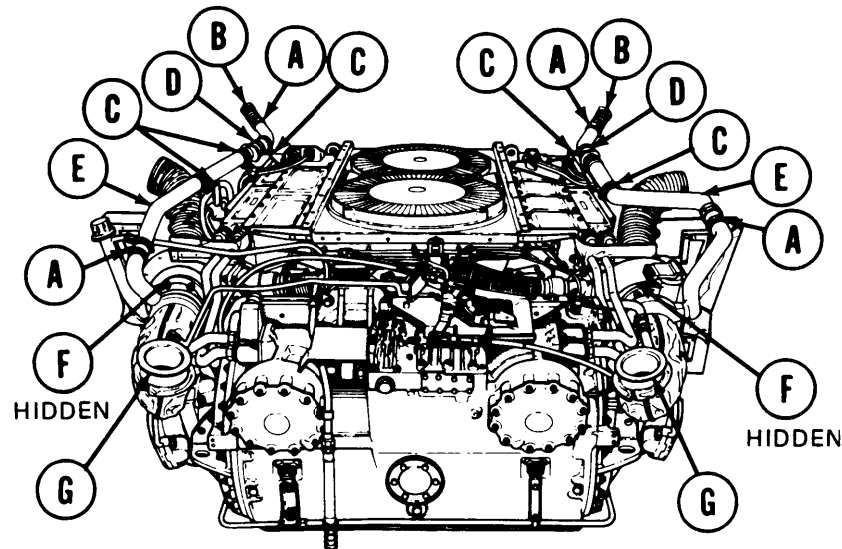
Check tube assemblies (E) for cracks, breaks, or corrosion.

38

Check turbo exhaust gaskets (F) for evidence of exhaust leakage.

39

Check both exhaust ejectors (G) for wear, cracks, breaks, or dust erosion.



Section III. Troubleshooting

6-5 General

Troubleshooting is a systematic solution of defective components by analysis of trouble symptoms. Table 6-2 lists additional symptoms which could occur in vehicles equipped with the improved clean air induction system.

6-6 Procedures

Table 6-3 provides step-by-step procedures that isolate the defective component in vehicles equipped with the improved clean air induction system.

Table 6-2. Improved Clean Air Induction System Malfunction Index

| MALFUNCTION | Page |
|---|------|
| 1. AIR CLEANER FILTER ELEMENTS REQUIRE CLEANING TOO OFTEN, ACCOMPANIED BY: A. EXCESSIVELY DIRTY ELEMENT B. LOW POWER AND EXCESSIVE BLACK EXHAUST SMOKE | 6-14 |
| 2. SOOT AN D/OR MOISTURE ON FILTER ELEMENT AND/OR DARK COLORED WATER OR MUD IN SCAVENGE TUBE OR CHECK VALVE. | 6-14 |
| 3. HIGH FILTER CLOG INDICATOR READING DURING HEAVY SNOW OPERATION ACCOMPANIED BY LOW POWER AND EXCESSIVE BLACK EXHAUST SMOKE. | 6-14 |
| 4. NO FILTER CLOG INDICATOR READING ACCOMPANIED BY LOW POWER AND EXCESSIVE BLACK EXHAUST SMOKE. | 6-14 |
| 5. ENGINE REVERSAL: VEHICLE HAS STALLED AND ROLLED BACKWARD DOWN AN INCLINE WITH TRANSMISSION IN A FORWARD GEAR | 6-14 |
| 6. POWERPLANT WARNING AND DUST DETECTOR WARNING LIGHTS ON, ONE (OR BOTH) DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, AND DUST DETECTOR FILTER STRIP INDICATES CONTAMINATION OF INTAKE AIR BY: A. DUST - (COLOR OF LOCAL SURROUNDINGS) B. FUEL - (CLEAR TO TAN IN COLOR - OILY FEELING) C. SOOT, DRY - (GRAY TO BLACK IN COLOR, DUSTY, AND SMEARS) D. OIL, BLACK, AND WET E. WATER | 6-15 |
| 7. POWERPLANT WARNING AND DUST DETECTOR WARNING LIGHTS ON, ONE (OR BOTH) DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, BUT DUST DETECTOR FILTER STRIP DOES NOT INDICATE CONTAMINATION OF INTAKE AIR. | 6-16 |
| 8. DUST DETECTOR WARNING LIGHT ON, POWER PLANT WARNING LIGHT OFF, DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED. | 6-17 |
| 9. POWERPLANT WARNING LIGHT ON, DUST DETECTOR WARNING LIGHT OFF, DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED. | 6-17 |
| 10. DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, BUT DUST DETECTOR WARNING LIGHT AND POWERPLANT WARNING LIGHT DO NOT COME ON. | 6-17 |
| 11. POWERPLANT WARNING LIGHT ON, DUST DETECTOR WARNING LIGHT ON, BUT DUST DETECTOR PRESSURE SWITCH(ES) NOT TRIPPED. | 6-18 |
| 12. POWERPLANT WARNING LIGHT NOT ON, DUST DETECTOR WARNING LIGHT NOT ON, DUST DETECTOR PRESSURE SWITCH(ES) NOT TRIPPED, DUST INGESTION IS APPARENT. | 6-19 |

Table 6-3. Improved Clean Air Induction System Troubleshooting - Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|--|--|---|
| VEHICLE EXHAUST DUST EJECTOR SYSTEM (VEDES) | | |
| 1. | AIR CLEANER FILTER ELEMENTS REQUIRE CLEANING TOO OFTEN, ACCOMPANIED BY: | |
| | A. | EXCESSIVELY DIRTY ELEMENT |
| | Step 1. | Inspect exhaust protector cap for free action or damage. Repair or replace as necessary. |
| | Step 2. | Inspect precleaned and dust scavenge sections of air cleaner through inspection holes for plugging from dust, mud, or snow. Clean out as required. |
| | Step 3. | Inspect scavenge tubes and hoses for loose clamps, holes, or cracks. a. Tighten or replace clamps as required (para. 6-16a). b. Replace tubes or hoses as required (para. 6-16a). |
| | Step 4. | Inspect check valve for free action. Replace as necessary (para. 6-16 b). |
| | B. | LOW POWER AND EXCESSIVE BLACK EXHAUST SMOKE |
| | Step 1. | Inspect air intake at turret bulkhead for clogging or restriction. Clean out as necessary. |
| | Step 2. | Inspect air cleaner intake hose for collapsed condition. Replace as necessary (para. 6-9). |
| | Step 3. | Inspect engine intake manifold for leaks. Notify direct support to repair or replace. |
| 2. | SOOT AND/OR MOISTURE ON FILTER ELEMENT AND/OR DARK COLORED WATER OR MUD IN SCAVENGE TUBE OR CHECK VALVE. | |
| | Step 1. | Inspect exhaust protector cap for free action or damage. Repair or replace as necessary (TM 20-1). |
| | Step 2. | Inspect check valve for free action. Replace as necessary (para. 6-16b). |
| 3. | HIGH FILTER CLOG INDICATOR READING DURING HEAVY SNOW OPERATION ACCOMPANIED BY LOW POWER AND EXCESSIVE BLACK EXHAUST SMOKE | |
| | Inspect for heavy snow or ice accumulations in air cleaner filter compartment and precleaned dust scavenge sections. | |
| 4. | NO FILTER CLOG INDICATOR READING ACCOMPANIED BY LOW POWER AND EXCESSIVE BLACK EXHAUST SMOKE. | |
| | Step 1. | Inspect and clean filter. |
| | Step 2. | Start engine and look for reduction in exhaust smoke. |
| | Step 3. | If a reduction in exhaust smoke occurs replace filter clog indicator; if not notify direct support maintenance. |
| 5. | ENGINE REVERSAL: VEHICLE HAS STALLED AND ROLLED BACKWARD DOWN AN INCLINE WITH TRANSMISSION IN A FORWARD GEAR | |
| | Inspect insides of both air cleaner filter elements. Replace element if charring, soot, fuel, or burn holes are found inside, or if element seals show signs of excessive heat (para. 6-15). | |

Table 6-3. Improved Clean Air Induction System Troubleshooting - Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|-------------|--|--|
| 6. | POWERPLANT WARNING AND DUST DEFLECTOR WARNING LIGHTS ON, ONE (OR BOTH) DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, AND DUST DETECTOR FILTER STRIP INDICATES CONTAMINATION OF INTAKE AIR BY: | |
| A. | DUST - (Color of local surroundings) | |
| | Step 1. | Inspect air cleaner outlet hose for holes or loose clamps a. If clamps are loose, tighten them. b. If hose is damaged, replace (para. 6-11), go to step 7. c. If air cleaner outlet hose is OK, go to step 2. |
| | Step 2. | Inspect air cleaner door gasket for damage. a. If door gasket is damaged, replace it (para. 6-14a), go to step 7. b. If door gasket is OK, go to step 3. |
| | Step 3. | Inspect air cleaner filter element and seal for damage or leaks. a. If filter is damaged or leaking, replace filter element (para. 6-15), go to step 7. b. If filter seal is OK, go to step 4. |
| | Step 4. | Inspect air cleaner outlet elbow for leaking gasket, cracks, or breaks. a. If gasket leaks, replace (para. 6-14 b), go to step 7. b. If elbow is damaged, replace (para. 6-14b), go to step 7. c. If air cleaner outlet elbow is OK, go to step 5. |
| | Step 5. | Inspect turbo supercharger inlet elbow for leaking gasket, cracks, or breaks. If elbow is damaged, replace (para. 6-12), go to step 7. |
| | Step 6. | Inspect air cleaner filter clog indicator. a. If filter clog indicator indicates a clogged air cleaner filter (a reading of 25 or more), clean or replace air cleaner filter element (para. 6-15). b. If filter clog indicator does not indicate clogged filter, go to step 7. If filter clog indicator is damaged or missing, replace it (para. 6-14d), go to step 7. |
| | Step 7. | Change engine oil and filter, run engine 10 hours. Take engine oil sample and submit to AOAP laboratory per LO-12. |
| | Step 8. | Service dust detector filter strip (PMCS, item 23). |
| B. | FUEL - (Clear to tan in color - Oil feeling) | |
| | Step 1. | Inspect fuel/water separator bleed cap. If damaged, replace (TM 20-1). If OK, go to step 2. |
| | Step 2. | Inspect primary fuel filter bleed cap. If damaged, replace (TM 20-1). If OK, go to step 3. |
| | Step 3. | Inspect fuel tank condensate relief outlet plug assembly. If damaged, replace (TM 20-1). If OK, go to step 4. |
| | Step 4. | Inspect inside of both air cleaner filter elements. Replace element if evidence of fuel, soot, or charring is found inside element. Go to step 5. |
| | Step 5. | Service dust detector filter strip (see quarterly PMCS, item 23). |
| C. | SOOT, DRY - (Gray to black in color, dusty, and smears). | |
| | Step 1. | Inspect inside and out of both air cleaner filter elements. Replace element if soot, charring, or fuel is found on element. Go step 2. |
| | Step 2. | Inspect for exhaust recirculation (TM 20-1). |
| | Step 3. | Service dust detector filter strip (see quarterly PMCS, item 23). |

Table 6-3. Improved Clean Air Induction System Troubleshooting - Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|---|---|---|
| 6. POWERPLANT WARNING AND DUST DEFLECTOR WARNING LIGHTS ON, ONE (OR BOTH) DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, AND DUST DETECTOR FILTER STRIP INDICATES CONTAMINATION OF INTAKE AIR BY: - Continued | D. OIL, BLACK, AND WET | Notify support maintenance personnel of defective turbosupercharger compressor shaft seal. |
| | E. WATER - (Wet, not oil, possible mud color of local surroundings). | <p>Step 1. Inspect air cleaner outlet hose for holes or loose clamps.</p> <ul style="list-style-type: none"> a. If clamps are loose, tighten them. b. If hose is damaged, replace (para 6-11). c. If air cleaner outlet hose is OK, go to step 2. <p>Step 2. Inspect air cleaner outlet elbow for leaking gasket, cracks, or beaks.</p> <ul style="list-style-type: none"> a. If gasket leaks, replace it (para. 6-14b). b. If elbow is damaged, replace (para 6-14 b). <p>Step 3. Service dust detector filter strip (see quarterly PMCS, item 23).</p> |
| 7. POWERPLANT WARNING AND DUST DETECTOR WARNING LIGHTS ON, ONE (OR BOTH) DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, BUT DUST DETECTOR FILTER STRIP DOES NOT INDICATE CONTAMINATION OF INTAKE AIR. | Step 1. Press plastic cap on dust detector pressure switch to reset switch. | <u>WARNING</u> |
| | | <p>Make sure area around vehicle is clear of personnel and equipment before performing step 2.</p> |
| | Step 2. Start engine. Apply vehicle brakes. Put transmission lever in high gear and operate engine at 1800 to 1900 rpm for no more than 30 seconds. If switch trips and warning lights come on again, replace dust detector pressure switch (para 6-17b). | |

Table 6-3. Improved Clean Air Induction System Troubleshooting - Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|-------------|--|---|
| 8. | DUST DETECTOR WARNING LIGHT ON, POWERPLANT WARNING LIGHT OFF, DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED (FIG 3-312.1). | <p>Step 1. Set MASTER BATTERY switch to OFF.</p> <p>Step 2. Disconnect connector P1 of harness 12325927 from dust detector warning light box.</p> <p>Step 3. Set MASTER BATTERY switch to ON. Check for 24 vdc between pins-D (positive) and B (negative) of harness connector P1.</p> <p>a. If 24 vdc exists, replace dust detector warning light box (para. 6-17g, M60A3; 6-17h, M728; 6-17i, M48A5AVLB, M60A1AVLB).</p> <p>b. If 24 vdc does not exist, replace dust detector warning light wiring harness 12325927 (6-17f).</p> |
| 9. | POWERPLANT WARNING LIGHT ON, DUST DETECTOR WARNING LIGHT OFF, DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED (FIG. 6-2). | <p>Step 1. Set MASTER BATTERY switch to ON.</p> <p>Step 2. Press DUST DETECTOR WARNING LIGHT lamp to test.</p> <p>a. If light comes on, replace dust detector warning light box (para. 6-17g, M60A3; 6-17h, M728; 6-17i, M48A5AVLB, M60A1AVLB).</p> <p>b. If lamp does not come on, go to step 3.</p> <p>Step 3. Replace DUST DETECTOR WARNING lamp.</p> <p>a. If lamp operates, discard defective bulb.</p> <p>b. If lamp does not operate, go to step 4.</p> <p>Step 4. Set MASTER BATTERY switch to OFF.</p> <p>Step 5. Disconnect connector P1 of harness 12325927 from dust detector warning light box.</p> <p>Step 6. Set MASTER BATTERY switch to ON. Check for 24 vdc between pins A and B of connector P1.</p> <p>a. If 24 vdc exists, replace dust detector warning light box (para. 6-17g, M60A3; 6-17h, M728; 6-17i, M48A5AVLB, M60A1AVLB).</p> <p>b. If 24 vdc does not exist, replace dust detector warning light wiring harness 12325927 (para 6-17f).</p> |
| 10. | DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, BUT DUST DETECTOR WARNING LIGHT AND POWERPLANT WARNING LIGHT DO NOT COME ON (FIG. 6-2). | <p>Step 1. Set MASTER BATTERY switch to OFF.</p> <p>Step 2. Disconnect leads of engine wiring harness 12314608 (circuit 509B) from right and left dust detector pressure switches. Check continuity across terminals of each pressure switch connector.</p> <p>a. If continuity across terminals does not exist, replace pressure switch (para. 6-17b).</p> <p>b. If continuity across terminals does exist, check continuity from connector pin B to ground lead of harness 12314608.</p> <p>c. If ground lead continuity does not exist, replace harness 12314608 (para. 6-17C).</p> <p>d. If ground lead continuity exists, check continuity of engine wiring harness 12314608 (circuit 509B) from pin C of engine connector to pin A of pressure switch connector.</p> |

Table 6-3. Improved Clean Air Induction System Troubleshooting - Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|---|--------------------|--|
| 10. DUST DETECTOR PRESSURE SWITCH(ES) TRIPPED, BUT DUST DETECTOR WARNING LIGHT AND POWERPLANT WARNING LIGHT DO NOT COME ON (FIG. 6-2) - Continued | | <ul style="list-style-type: none"> e. If continuity does not exist through engine wiring harness 12314608, replace harness (para. 6-17c). f. If continuity exists through engine wiring harness 12314608, check continuity through engine-to-bulkhead lead 12325929 (circuit 509B) from engine connector socket C to bulkhead connector pin C. g. If continuity does not exist, replace engine to bulkhead lead assembly 12325929 (circuit 509B (para. 6-17d). h. If continuity exists through engine-to-bulkhead lead 12325929, disconnect hull intermediate lead assembly 12325928 (circuit 509B) from short lead of dust detector warning light harness at dust detector warning light box. Check continuity through lead 12325928 from pin C at bulkhead to short lead connector. i. If continuity does not exist, replace hull intermediate lead 12325928 (circuit 509B (para. 6-17e). j. If continuity exists through hull intermediate lead, go to step 3. <p>Step 3. Disconnect connector P1 of harness 12325927 from dust detector warning light box. Check continuity through circuit 509B of harness 12325927.</p> <ul style="list-style-type: none"> a. If continuity exists, replace dust detector warning light box (para. 6-17g, M60A3; 6-17h, M728; 6-17i, M48A5AVLB, M60A1AVLB). b. If continuity does not exist replace dust detector warning light harness 12325927 (para 6-17f). |
| 11. POWERPLANT WARNING LIGHT ON, DUST DETECTOR WARNING LIGHT ON, BUT DUST DETECTOR PRESSURE SWITCH(ES) NOT TRIPPED (FIG. 6-2). | | <p>Step 1. Set MASTER BATTERY switch to OFF.</p> <p>Step 2. Disconnect leads of engine wiring harness 12314608 (circuit 509B) from right and left dust detector pressure switches. Check continuity across terminals of each pressure switch connector.</p> <ul style="list-style-type: none"> a. If continuity across terminals exists, replace pressure switch (para. 6-17b). b. If continuity does not exist, go to step 3. <p>Step 3. Disconnect connector of engine wiring harness 12314608 (circuit 509B) at engine disconnect. Check harness 12314608 (circuit 509B) at engine disconnect by checking continuity to all other connector pins and to connector shells.</p> <ul style="list-style-type: none"> a. If continuity exists, replace engine wiring harness 12314608 (para. 6-17c). b. If continuity does not exist, go to step 4. |

Table 6-3. Improved Clean Air Induction System Troubleshooting - Continued

| MALFUNCTION | TEST OR INSPECTION | CORRECTIVE ACTION |
|---|--------------------|--|
| 11. POWERPLANT WARNING LIGHT ON, DUST DETECTOR WARNING LIGHT ON, BUT DUST DETECTOR PRESSURE SWITCH(ES) NOT TRIPPED (FIG. 6-2) - Continued. | Step 4. | Disconnect connectors of engine to bulkhead lead assembly 12325929 at engine disconnect and at bulkhead disconnect. Check lead assembly circuit 509B by checking continuity to all other connector pins, connector sheels, and groun. a. If continuity exists, replace engine to bulkhead lead assembly 12325929 (para 6-17d). b. If continuity does not exist, go to step 5. |
| | Step 5. | Disconnect connectors of hull intermediate lead assembly 12325928 at bulkhead disconnect and at short lead (circuit 509B) from dust detector warning light box harness connector. Check for lead assembly 12325928 at bulkhead connector by checking continuity to all other connector pins, connector shells, and ground. a. If continuity exists, replace hull intermediate lead assembly 12325928 (para. 6-17e). b. If continuity does not exist, go to step 6. |
| | Step 6. | Disconnect connector P1 of dust detector warning light wiring harness from dust detector warning light box. Check for circuit between dust detector warning light box and harness assembly by checking for continuity between connector pins C and B and between connector pin C and connector shell. a. If continuity exists, replace dust detector warning light harness (para. 6-17f). b. If continuity does not exist, replace dust detector warning light box (para. 6-17g, M60A3; 6-17h, M728; 6017i, M48A5AVLB, M60A1AVLB). |
| 12. POWERPLANT WARNING LIGHT NOT ON, DUST DETECTOR WARNING LIGHT NOT ON, DUST DETECTOR PRESSURE SWITCH(ES) NOT TRIPPED, DUST INGESTION IS APPARENT. | Step 1. | Service dust detector filter strip (see quarterly PMCS, item 23). |
| | Step 2. | Check air pressure hoses for blockage and correct installation (para. 6-17 b). |
| | Step 3. | Perform dust detector operational test (para. 6-17j). a. If dust detector is operational go to step 6. b. If dust detector is not operational, go to step 4. |
| | Step 4. | Replace dust detector pressure switch(es) (para. 6-17b). |
| | Step 5. | Perform dust detector operational test (para. 6-17h). a. If dust detector is operational go to step 6. b. If dust detector is not operational, notify support maintenance. |
| | Step 6. | Change engine oil and filter. Run engine 10 hours. Take engine oil sample and submit to AOAP laboratory per LO-12. |

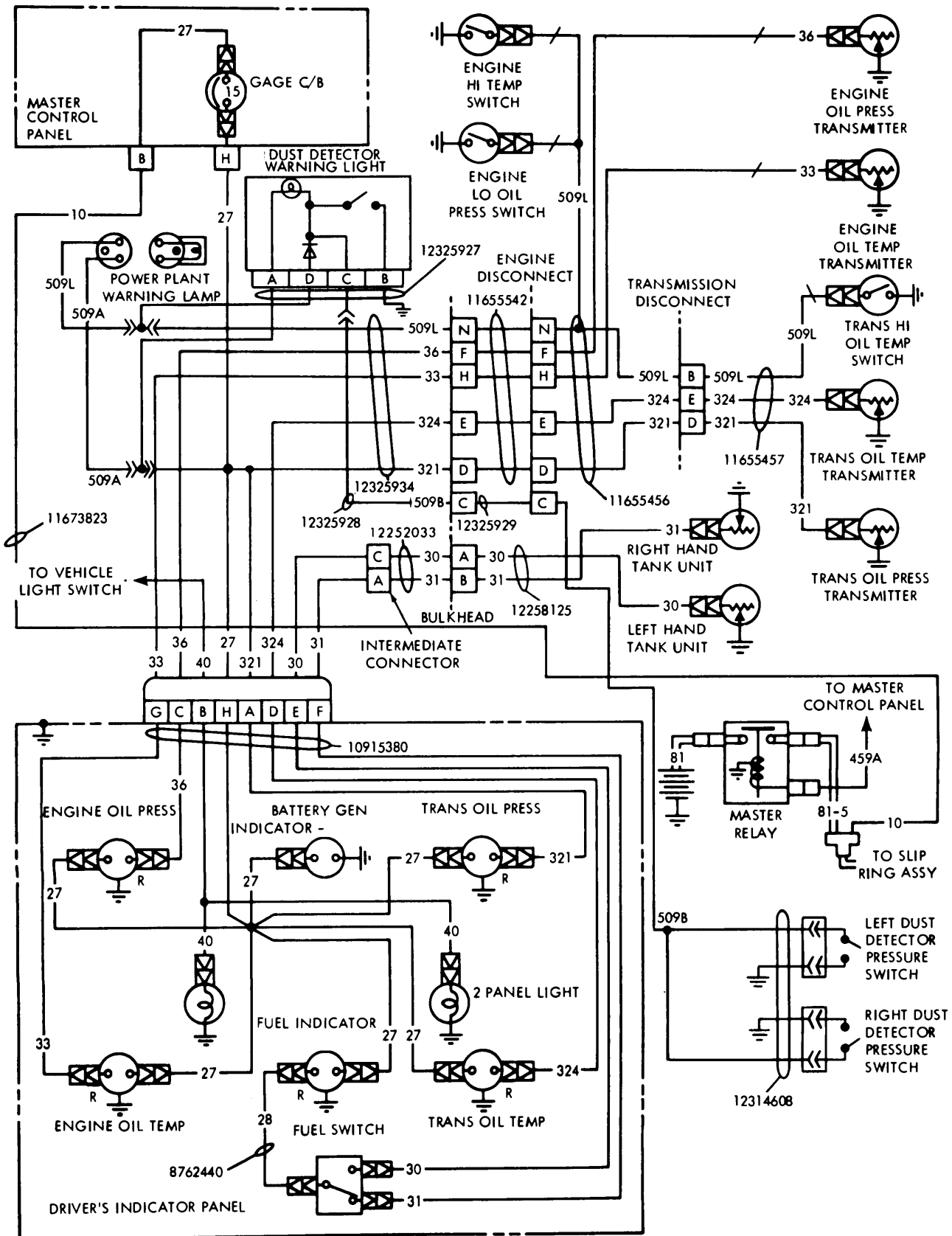


Figure 6-1. Powerplant warning and indicator transmitter circuits - schematic diagram.

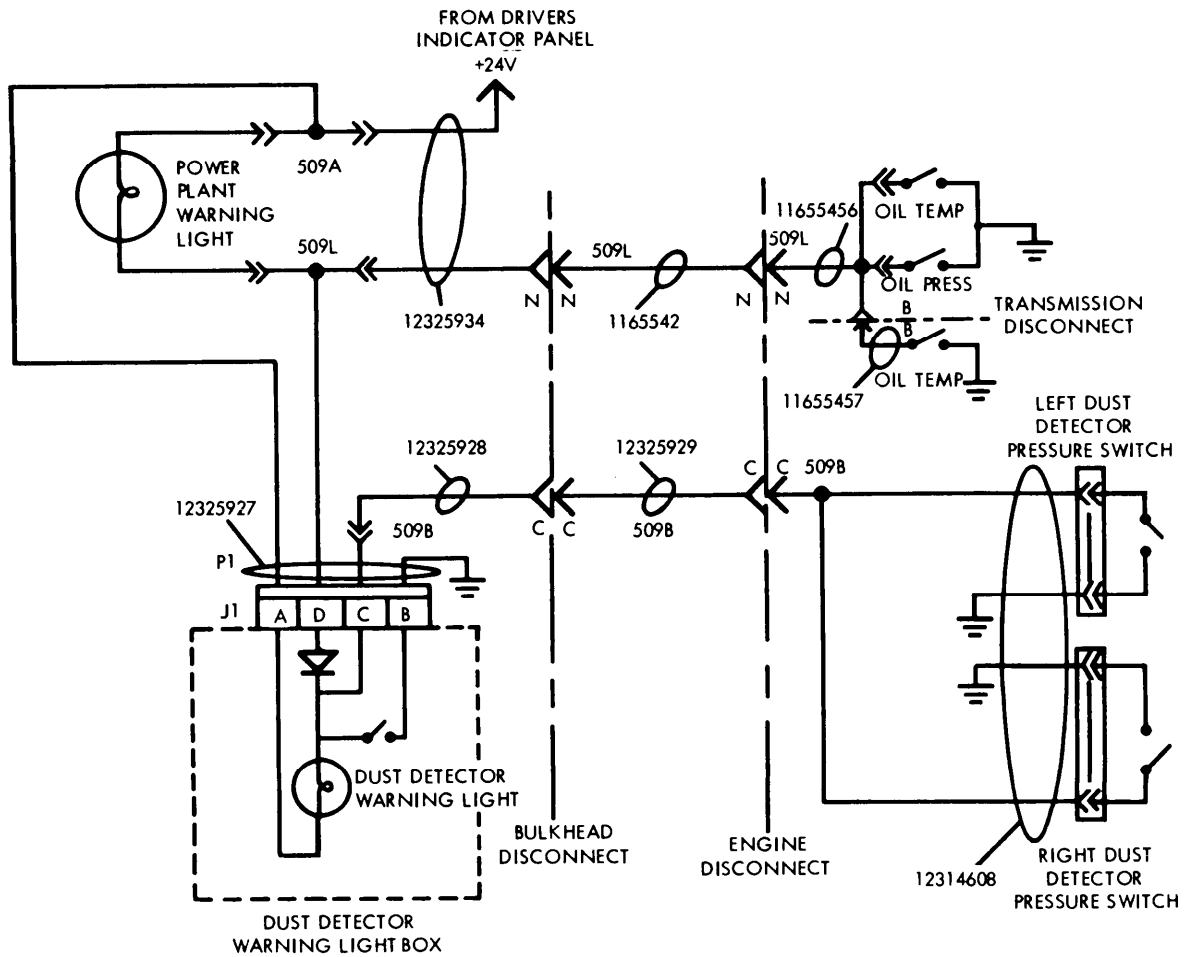


Figure 6-2. Dust detector schematic diagram.

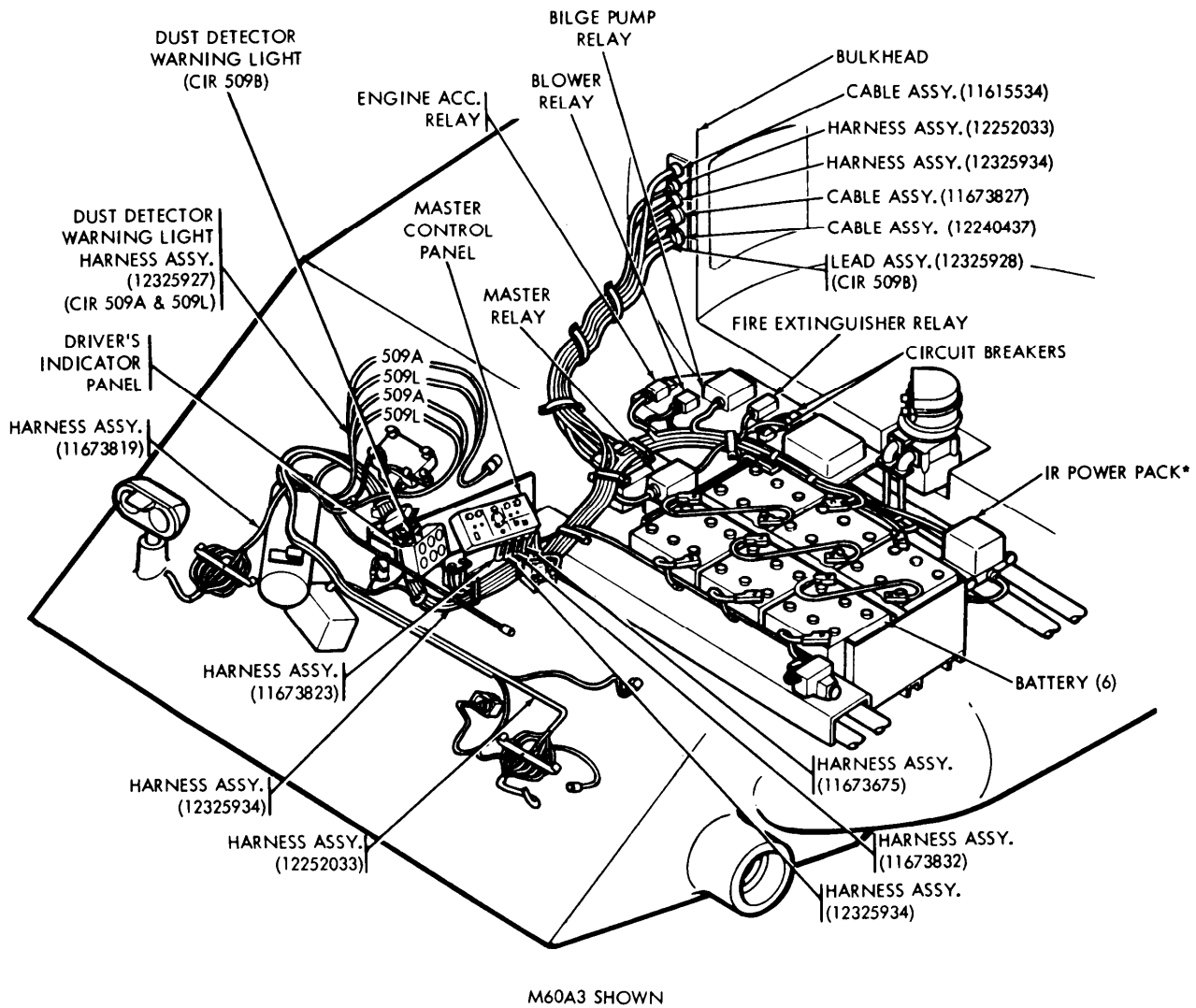
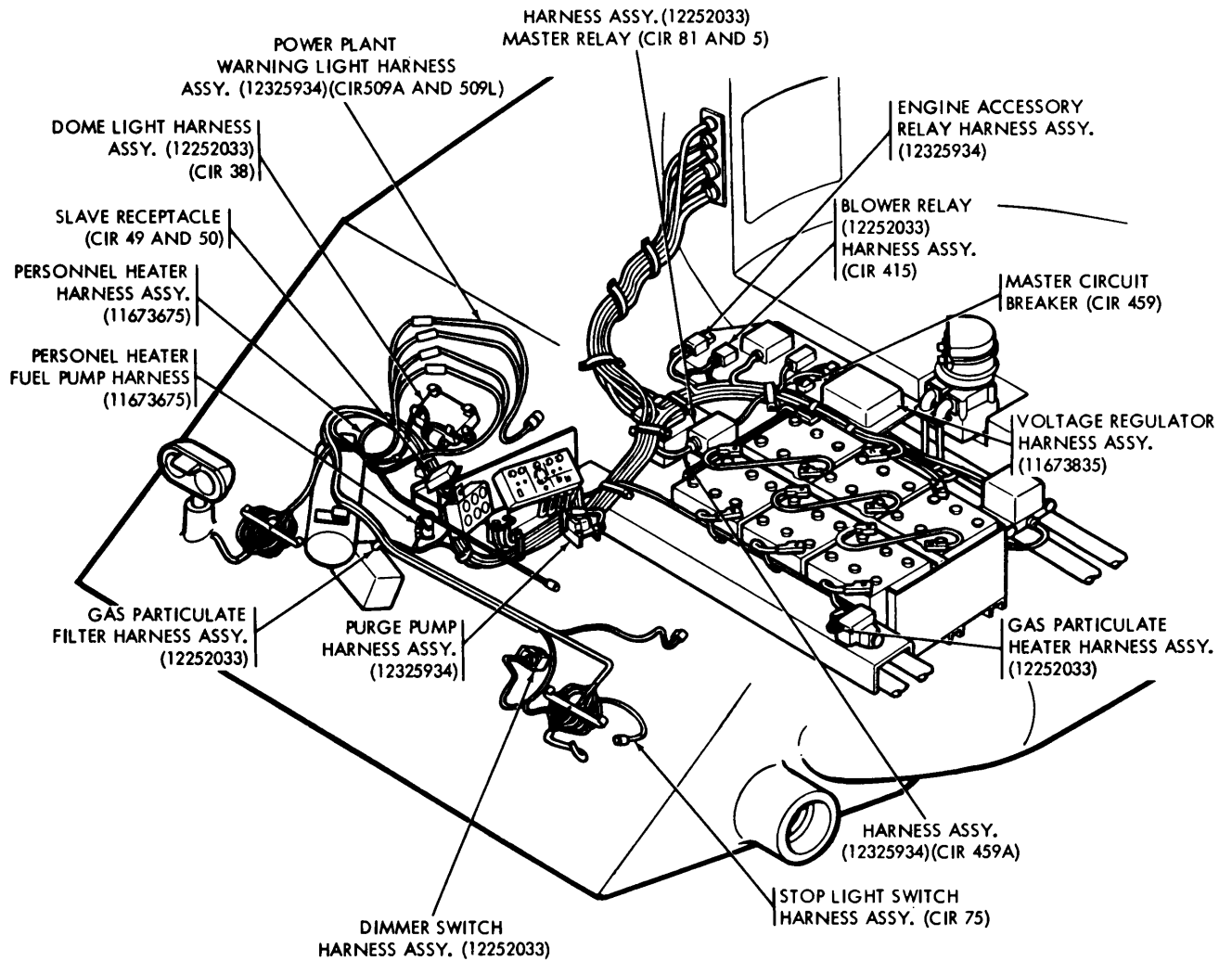


Figure 6-3. Crew compartment wiring harness and components - locational view (sheet 1 of 2).



M60A3 SHOWN

Figure 6-3. Crew compartment wiring harness and components - locational view (sheet 2 of 2).

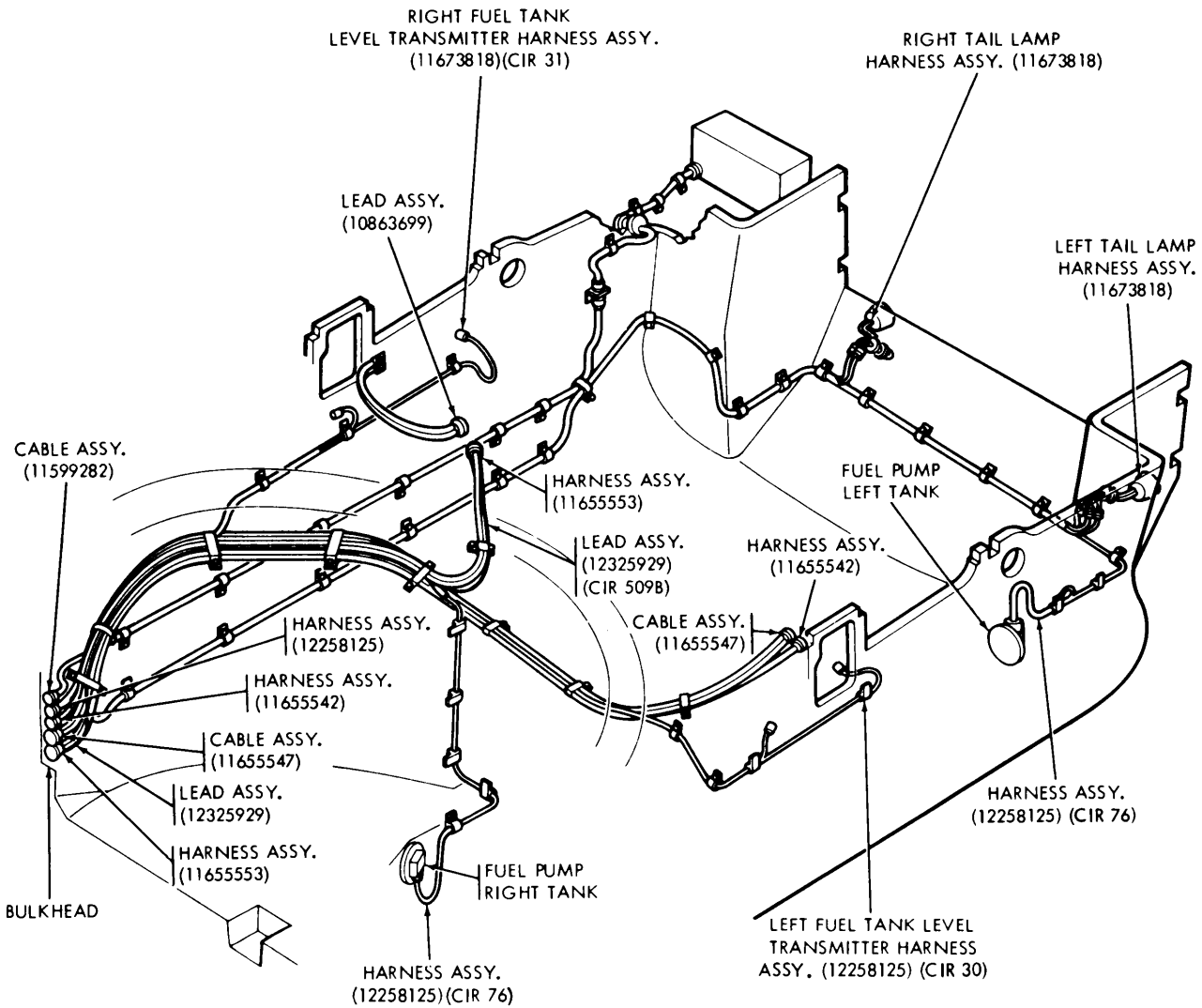


Figure 6-4. Engine compartment wiring harness - locational view.

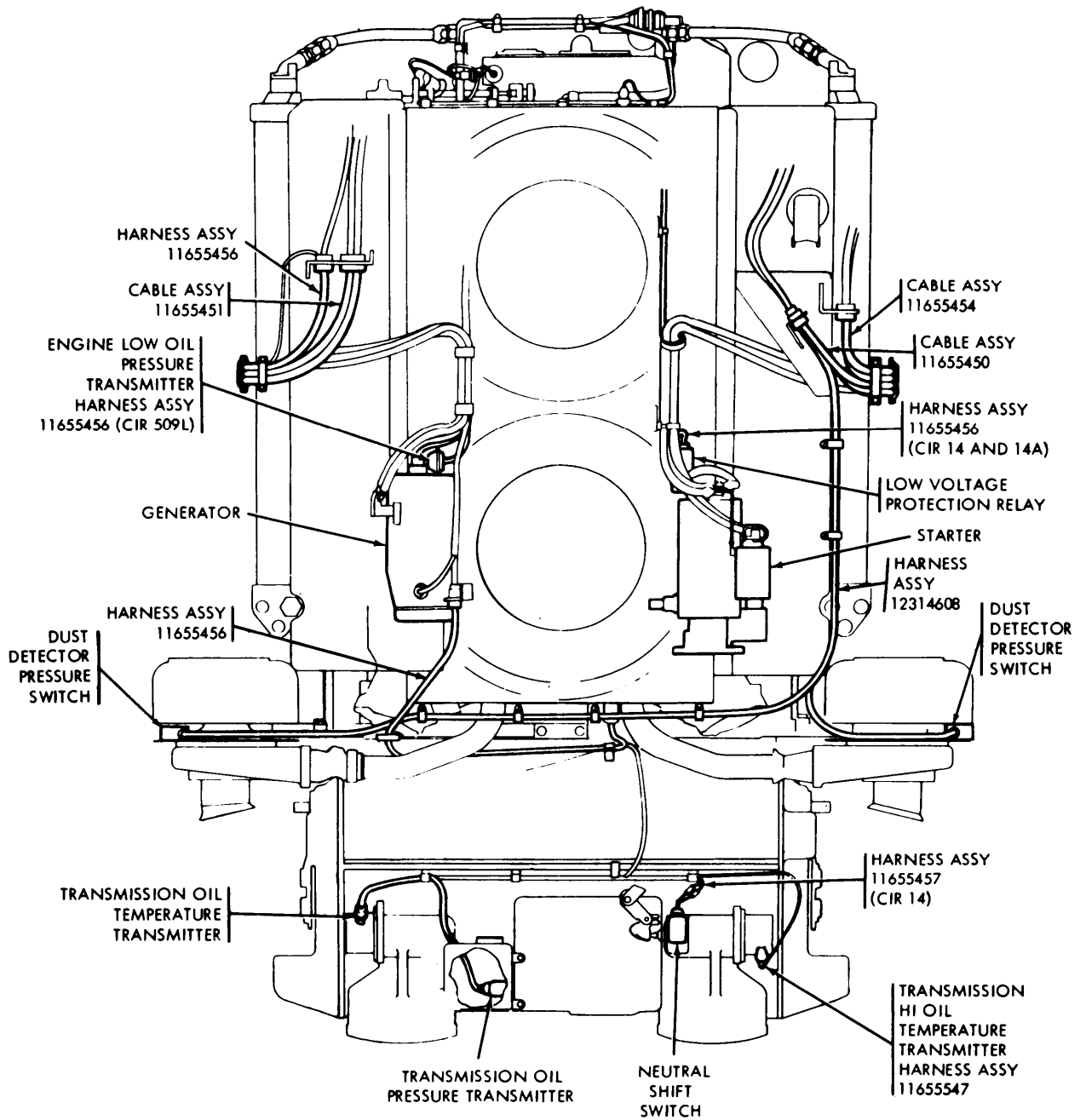


Figure 6-5. Powerplant top - locational view.

Section IV. Maintenance Procedures

6-7. General

This section provides additional maintenance procedures required to support vehicles equipped with the improved clean air induction systems. The procedures are to be used in conjunction with the vehicle organizational maintenance manuals (TM 20-1).

6-8. Powerplant Replacement

During powerplant replacement, the following steps must be performed in addition to the procedures described in the TM-20-1.

a. *Removal. After disconnecting the air cleaner outlet hose:*

- (1) Loosen two hose clamps (fig. 6-6) securing hose between air cleaner exhaust manifold tube and VEDES intake tube.
- (2) Slide hose back off air cleaner exhaust manifold tube.

b. *Installation. After installing the air cleaner outlet hose and clamps:*

- (1) Install hose between air cleaner exhaust manifold tube and VEDES intake tube (fig. 6-6).
- (2) Secure hose with two hose clamps.

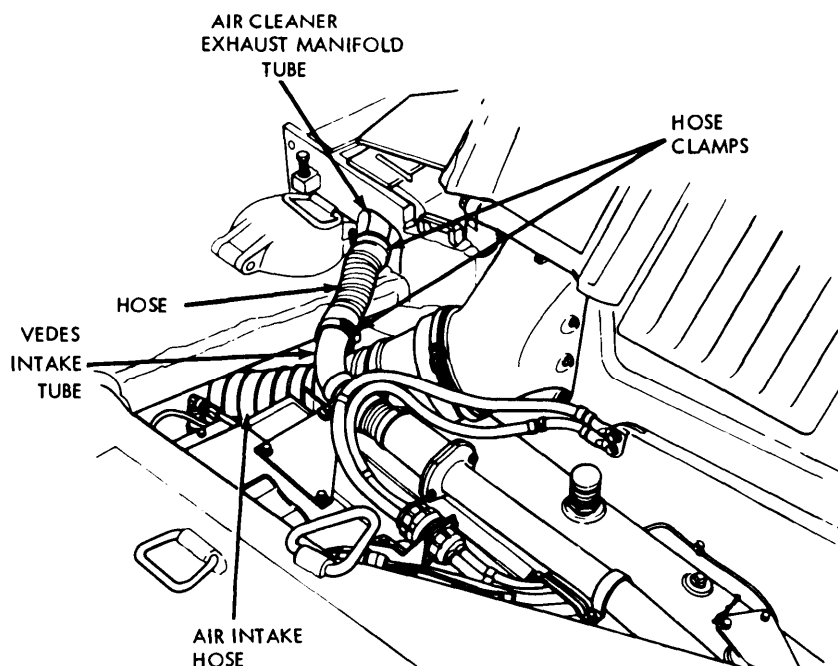


Figure 6-6. VEDES intake tube hose removal/installation (powerplant replacement).

6-9. Air Intake Hose Assembly Replacement (Fig. 6-7).**NOTE**

Replacement of left and right air cleaner intake hoses is the same. Left side of vehicle shown.

a. Removal.

- (1) Open top deck grille doors.
- (2) Remove clamp securing air intake hose to air intake elbow (view A). Remove hose from elbow.
- (3) Inside crew compartment (view B), remove eight nuts and lockwashers securing air intake to bulkhead.
- (4) Pull air intake, with air intake hose attached, into crew compartment.
- (5) Loosen clamp securing hose to air intake flange. Remove hose from flange. Secure hose to flange with clamp.

NOTE

If clamp and/or clamp screw is damaged, replace entire clamp assembly. If hose is damaged, replace hose.

b. Installation.

- (1) Inside crew compartment, put small amount of silicone compound (item 5, appendix C) inside air intake hose opening (view B). Put air intake hose on air intake flange. Secure hose to flange with clamp.
- (2) Push hose through bulkhead opening and secure air intake to bulkhead with eight nuts and new lockwashers.
- (3) Put air intake hose on air intake hose elbow (view A). Secure hose to elbow with clamp.
- (4) Close top deck grille doors.

6-10. Air Intake Replacement (Fig. 6-7).**NOTE**

Replacement of left and right air intakes is the same. Left side shown.

a. Removal.

- (1) Open top deck grille doors.
- (2) Remove clamp securing air intake hose to hose elbow (view A). Remove hose from elbow.
- (3) Inside crew compartment (view B), remove eight nuts and lockwashers securing air intake to bulkhead. Discard lockwashers.
- (4) Pull air intake, with air in-take hose attached, into crew compartment.
- (5) Loosen clamp securing hose to air intake flange. Remove hose from flange.
- (6) Remove gasket (view C) between air intake and bulkhead. Discard gasket. Clean off old adhesive and gasket material.

- (7) Remove four screws and lockwashers securing air intake cover to air intake. Remove cover and gasket. Discard gasket (view C). Clean off old adhesive and gasket material.
- (8) Remove six nuts and lock-washers (located inside air intake) securing gasket and air intake flange to air intake. Remove gasket and flange. Discard gasket and lockwashers (view C). Clean off old adhesive and gasket material.
- (9) Clean screen if required.

b. Installation.

- (1) Using adhesive (item 1, appendix C) cement new gasket on air intake flange (view C). Secure flange to air intake with six nuts and new lockwashers.
- (2) Using adhesive (item 1, appendix C) cement new gasket on air intake cover. Secure cover to intake with four screws and new lockwashers.
- (3) Using adhesive (item 1, appendix C) cement new gasket to bulkhead opening inside crew compartment.
- (4) Put small amount of silicone compound (item 5, appendix C) on inside of hose opening (view B). Put hose on air intake flange. Secure hose to flange with clamp.
- (5) Position air intake flange over bulkhead opening (view B). Secure intake to bulkhead with eight nuts and new lockwashers.
- (6) Put air intake hose on air intake hose elbow (view A). Secure hose to elbow with clamp.
- (7) Close top deck grille doors.

6-11. Air Cleaner Outlet Hose Assembly Replacement (Fig. 6-7).

NOTE

Replacement of left and right air cleaner outlet hose assemblies is the same. Left side shown.

a. Removal.

- (1) Open top deck door assemblies.

CAUTION

Do not open top deck doors when air cleaner door assembly is open. Damage to air cleaner door may result.

- (2) Pull pin and release quick release clamp. Remove clamp from hose (views D and E).
- (3) Remove screw clamp.
- (4) Remove hose.
- (5) Cover air cleaner outlet elbow and turbo-supercharger inlet elbow to prevent entrance of foreign matter.
- (6) Remove performed packings (view D). Get rid of packings. Clean old adhesive from packing groove on hose assembly.
- (7) Inspect hose assembly for damage or defective parts. Replace hose assembly if hose or flange is unserviceable.

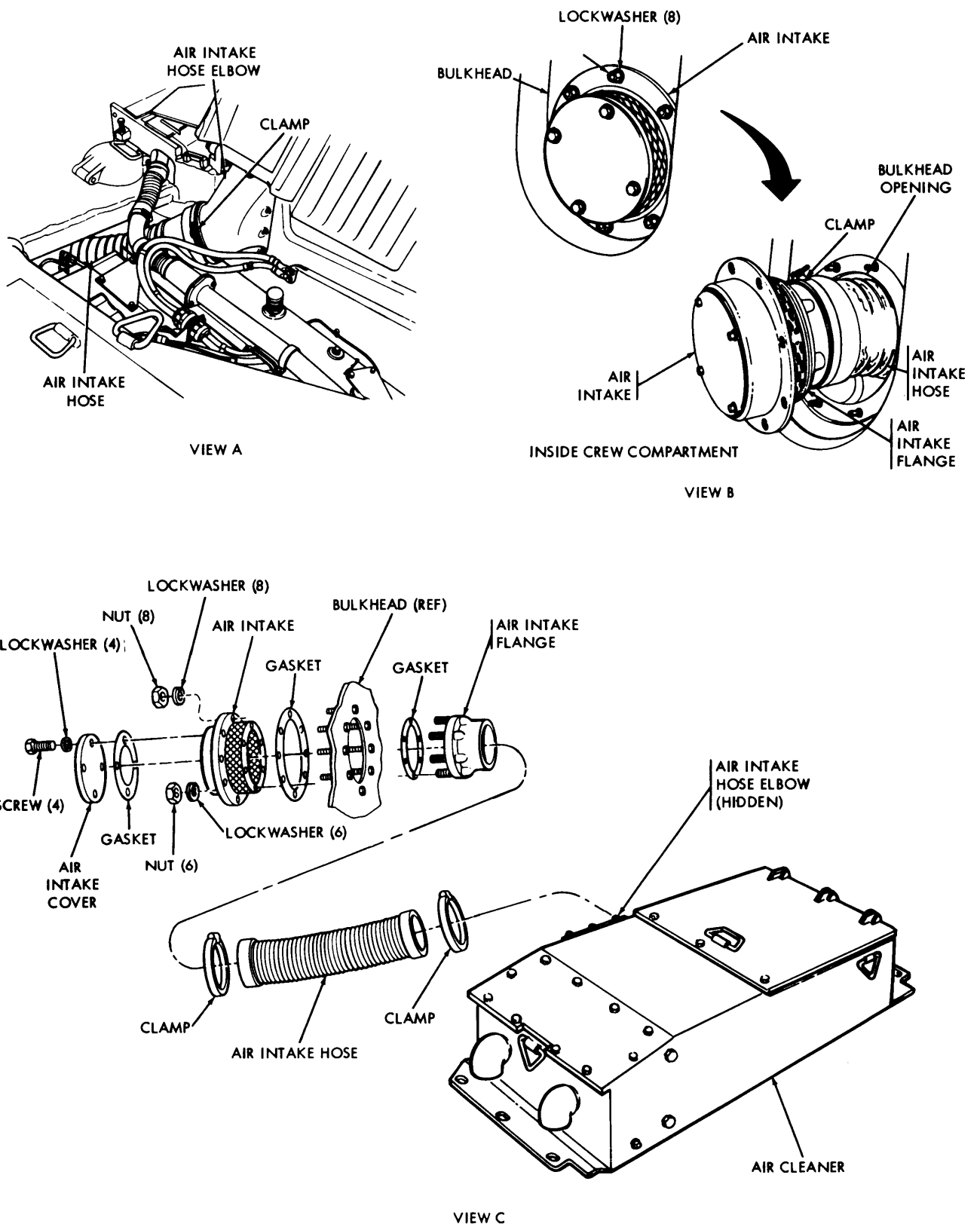


Figure 6-7. Air cleaner hoses, air intake gaskets and screens replacement (sheet 1 of 2).

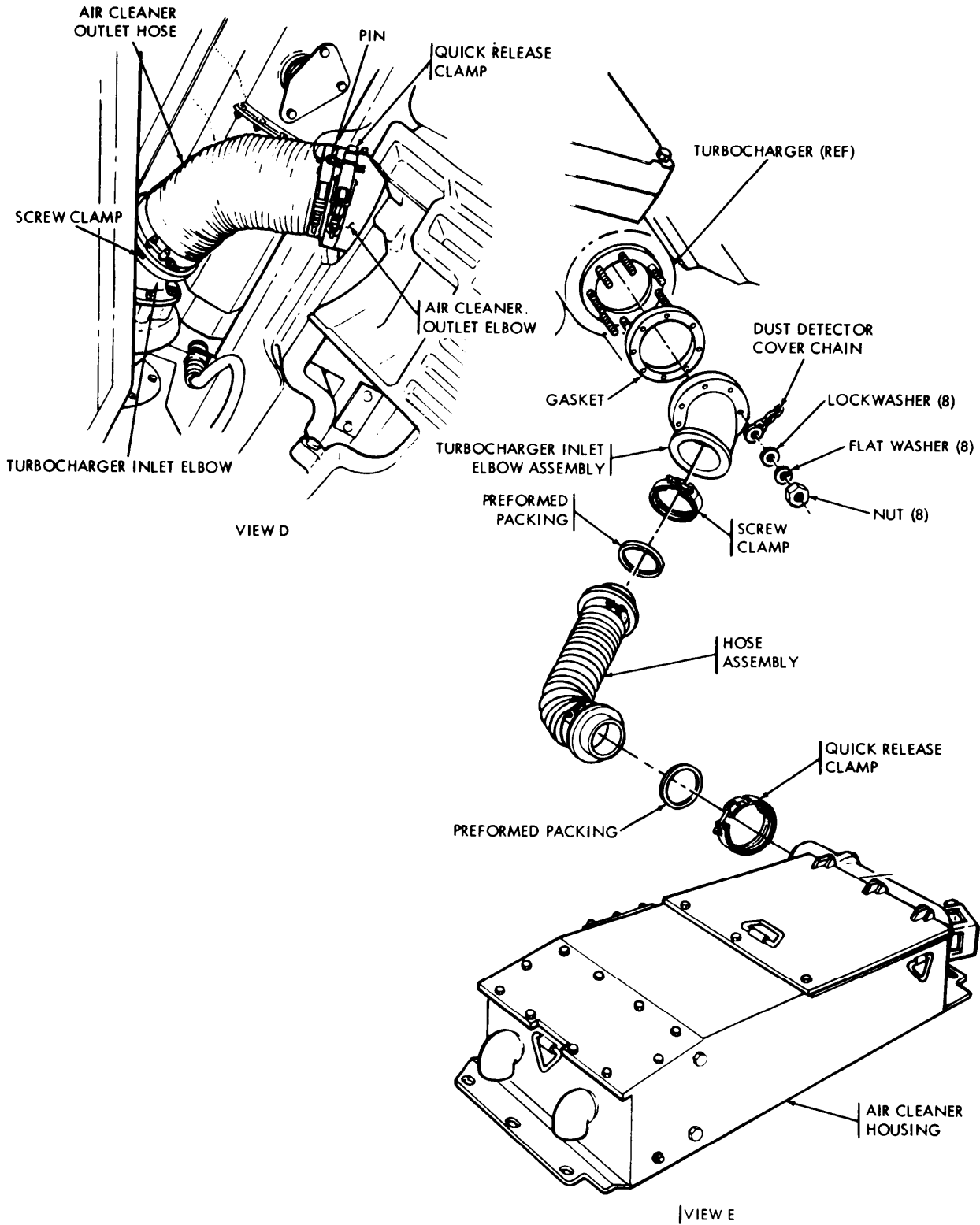


Figure 6-7. Air cleaner hoses, air intake gaskets and screens replacement (sheet 2 of 2).

b. Installation.

- (1) Remove covering from air cleaner outlet elbow and turbo-supercharger inlet elbow.
- (2) Apply adhesive (item 4, appendix C) in grooves of hose flanges (view E) and install new preformed packings.
- (3) Install hose assembly between air cleaner outlet elbow and turbocharger inlet elbow (view D).
- (4) Align hose flange to turbo-supercharger elbow flange. position screw clamp on hose and hand tighten screw clamp nut.
- (5) Position quick release clamp on hose. Loosen adjusting nut on "T" bolt of the quick release clamp.
- (6) Align the hose flange and the air cleaner elbow. Engage "T" bolt with hasp and close clamp. Insert safety pin.
- (7) Tighten adjusting nut to eliminate clearance between hasp and "T" bolt. Turn adjusting nut one additional turn. (8-12 lb. in.).
- (8) Tighten screw clamp nut to 25-35 lb.-in. (3-4 N m).
- (9) Close top deck door assemblies.

6-12. Turbocharger Inlet Elbow Assembly Replacement (Fig. 6-7).**NOTE**

Replacement of left and right turbocharger inlet elbow assemblies is the same. Left side shown.

*a. Removal.***CAUTION**

Do not open top deck door assemblies if air cleaner is open. Damage to air cleaner door may result.

- (1) Open top deck door assemblies.
- (2) Remove intermediate scavenge tube (para. 6-16c).
- (3) Remove air cleaner outlet hose assembly (para. 6-11a).
- (4) Remove eight nuts, lockwashers, and flatwashers securing turbocharger inlet elbow assembly and dust detector cover chain to turbocharger (view E).
- (5) Remove elbow, gasket, and chain.
- (6) Discard gasket. Clean old gasket material off turbocharger.

b. Installation.

- (1) Position new gasket and elbow on studs of turbocharger.
- (2) Put dust detector cover chain in position on one stud.
- (3) Secure elbow to turbocharger with eight flatwashers, lockwashers, and nuts.
- (4) Install air cleaner outlet hose assembly (para. 6-11b).
- (5) Install intermediate scavenge tube (para. 6-16c).
- (6) Close top deck door assemblies.

6-13. Air Cleaner Replacement (Fig. 6-8)**NOTE**

Removal of right and left air cleaners is the same except as noted. Right side shown.

a. Removal.

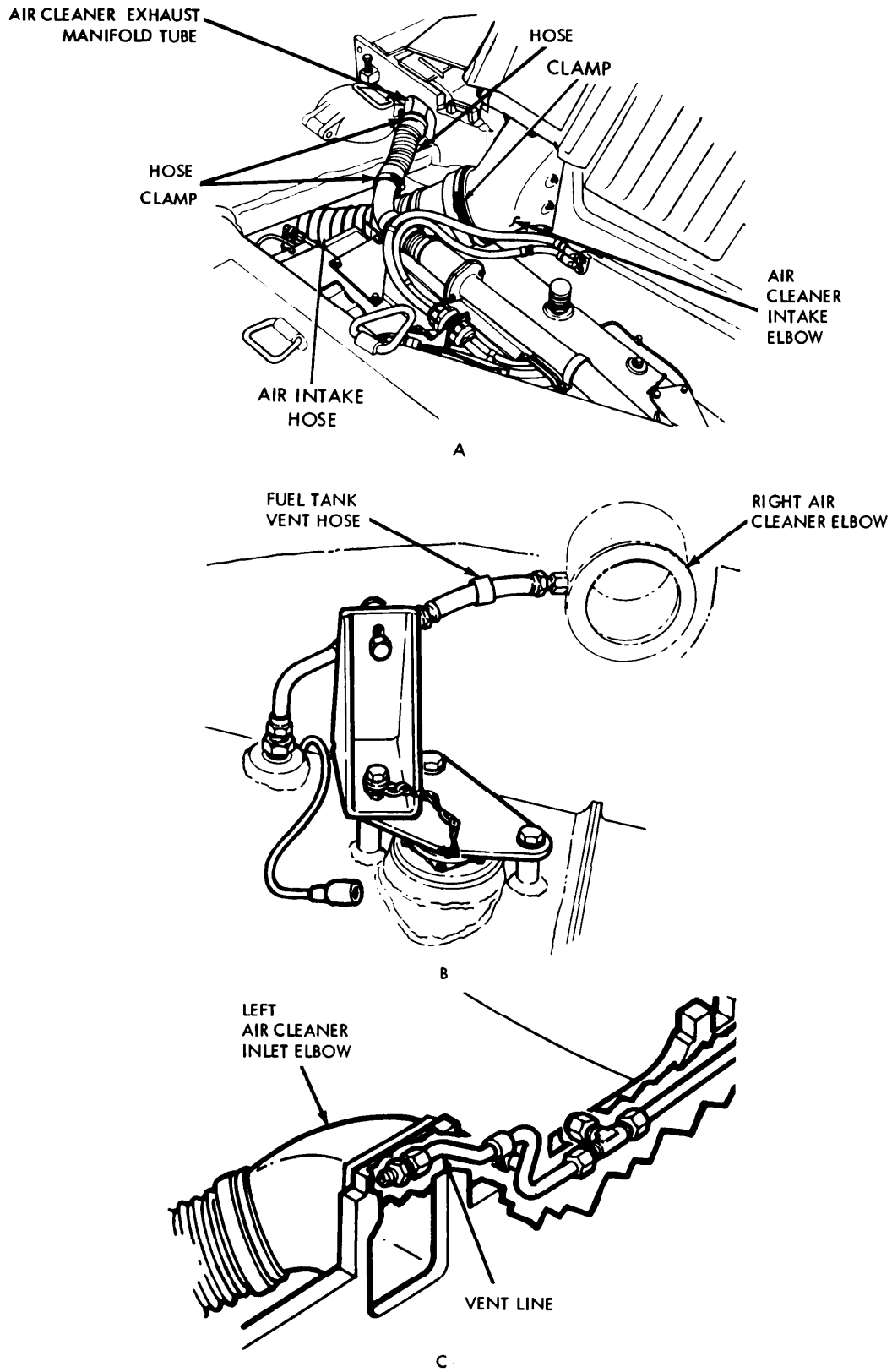


Figure 6-8. Air cleaner replacement (sheet 1 of 2).

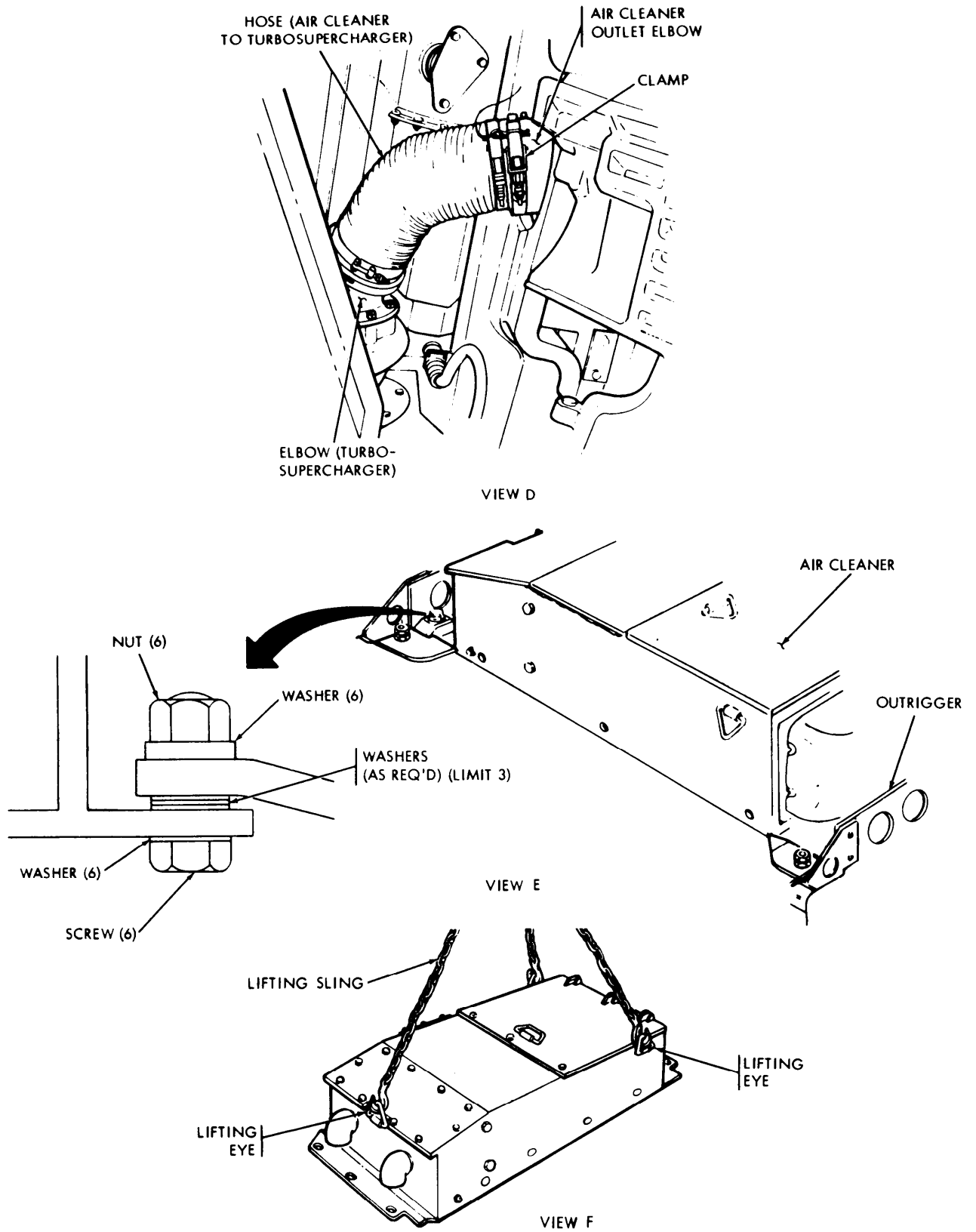


Figure 6-8. Air cleaner replacement (sheet 2 of 2).

CAUTION

Do not open top deck door assemblies if air cleaner is open.
Damage to air cleaner door may result.

- (1) Open top deck door assemblies.
- (2) Loosen two hose clamps and slide hose back off air cleaner exhaust manifold tube (view A). Cover manifold and hose openings to prevent entry of foreign matter.
- (3) Loosen clamp at air cleaner and air intake hose, and remove hose from elbow (view A). Cover elbow and hose openings to prevent entry of foreign matter.

NOTE

Steps (4) and (5) apply to right air cleaner. Step (6) applies to left air cleaner.

- (4) Remove air cleaner manifold (para. 6-14e).
- (5) Disconnect fuel tank-to-air cleaner vent hose assembly from right side air cleaner (view B).
- (6) Disconnect final drive vent line from left air cleaner elbow (view C).

NOTE

Steps (7) through (12) apply to both sides.

- (7) Loosen clamp at air cleaner outlet elbow and remove hose from elbow (view D). Cover elbow and hose openings to prevent entry of foreign matter.
- (8) Remove air cleaner fender skirt (TM 20-1). Close top deck grille doors.
- (9) Attach lifting sling to three lifting eyes on the sides of the armor air cleaner (view F).
- (10) Remove six screws, 12 washers, and six nuts securing air cleaner housing to outriggers (view E).

NOTE

Up to three shim washers may be found between air cleaner housing and outrigger at each mounting screw.

- (11) Take strain on sling and guide air cleaner box away from vehicle until air cleaner air intake and outlet elbows are clear of hull openings (view F).
 - (12) Lift air cleaner housing clear and away from vehicle. Disconnect sling.
- b. Installation.
- (1) Attach lifting sling to the three lifting eyes on the sides of air cleaner (view F).
 - (2) Lift housing and position over edge of track with air cleaner housing centrifugal fan exhaust elbows toward front of vehicle and air intake elbow inboard.
 - (3) Move air cleaner housing into position, guiding air intake and outlet elbows through openings in hull.

NOTE

Before tightening nuts, if a gap exists between air cleaner housing and outrigger, use washers MS21200-10 (limit 3 at each mounting bolt) as shims. For air cleaner fit and to maintain clearance between VEDES manifold and hull deck.

- (4) Install six screws, 12 washers, and six nuts to secure air cleaner housing to outriggers. Prime threaded surfaces with primer (item 8, appendix C) and apply locking compound (item 3, appendix C). Install parts as indicated in view E. Install screws from bottom. Tighten nuts to 85-95 lb.-ft. (115-129 N m).

- (5) Disconnect sling.
- (6) Install air cleaner fender skirt (TM 20-1).
- (7) Remove protective cover from air cleaner air inlet elbow and hose. Install hose on elbow and secure with clamp (view A).
- (8) Remove protective cover from air cleaner exhaust manifold tube and hose. Install hose on tube and secure with clamp (view A).

NOTE

If hoses and/or clamp assemblies are damaged, have holes or tears, replace.

NOTE

Steps (i) and (j) apply to right air cleaner. Step (k) applies to left air cleaner.

- (9) Install air cleaner manifold (para. e below).
- (10) Connect fuel-tank-to-air cleaner vent hose assembly to right air cleaner only (view B). Connect final drive vent line to left air cleaner elbow (view C).

NOTE

Steps (11) and (12) apply to both sides

- (11) Remove protective covers from air cleaner air outlet elbow and hose. Install hose clamp over flange and tighten clamp (view D).
- (12) Close top deck door assemblies.

6-14. Air Cleaner Repair

- a. *Door Assembly Gasket Replacement (Fig. 6-9).*
 - (1) Completely remove old gasket and adhesive from gasket recess by scraping or other mechanical means.
 - (2) Apply adhesive (item 1, appendix C) to bottom of gasket recess in door.
 - (3) Install new gasket on door with flat side of rubber gasket toward adhesive.
 - (4) Close door assembly and secure with three screws.
- b. *Air outlet elbow replacement (Fig. 6-9).*
 - (1) Remove air cleaner (para. g(1) above).
 - (2) Remove 14 nuts securing air outlet elbow to air cleaner.
 - (5) Remove air outlet elbow and gasket. Discard gasket. Cover air cleaner opening.

NOTE

When outlet elbow is removed from air cleaner, cover the air cleaner opening to prevent entry of foreign material.

- (6) Remove protective cover from air cleaner opening.
- (7) Inspect and clean mating surfaces on air cleaner and outlet elbow.
- (8) Position new gasket and outlet elbow on air cleaner.

- (7) Install 14 nuts securing elbow to air cleaner. Tighten nuts to 35 lb. ft. (47 N.m) using sequence shown in figure 6-9. Repeat sequence tightening nuts to 50 lb. ft. (68 N.m).
 - (8) Install air cleaner on vehicle (para. (g) (2) above).
- c. *Air Intake Elbow Replacement (Fig. 6-9).*
- (1) Remove air cleaner (para. 6-13a above).
 - (2) Remove 10 self-locking nuts securing air intake hose elbow to air cleaner housing.
 - (3) Remove air intake hose elbow and gasket. Discard gasket.

NOTE

If air intake elbow is to remain off the air cleaner for a period of time, cover the air cleaner opening to prevent entry of foreign material.

- (4) Remove protective cover from air cleaner air intake hose elbow opening if required.
 - (5) Inspect and clean mating surfaces of air intake hose elbow and air cleaner.
 - (6) Position new gasket and air intake hose elbow on air cleaner.
 - (7) Install 10 self locking nuts securing air intake hose elbow to air cleaner in sequence shown on figure 6-9.
 - (8) Install air cleaner on vehicle (para. (g) (2) above).
- d. *Filter Clog Indicator Replacement (Fig. 6-10).*
- (1) Remove damaged or defective filter clog indicator along with adapter when engine is not operating. If a new filter clog indicator is not installed right away, install plug attached to chain securely into opening in outlet elbow.
 - (2) If plug has been installed into opening (1 above), remove it and install new adapter and filter clog indicator. Install plug in its original position on guard. Push reset button (early model).
- e. *Air Cleaner Manifold Replacement (Fig. 6-11).*

NOTE

Replacement of left or right manifold is the same. Left side shown.

- (1) *Removal.*

CAUTION

Do not open top deck doors when air cleaner door assembly is open. Damage to air cleaner door may result.

- (a) Open top deck grille doors.
- (b) Loosen two clamps (view A). Remove hose from manifold tube.
- (c) Remove 10 screws and lockwashers securing cover to air cleaner (view A).
- (d) Remove cover and gasket. Discard gasket (view B).
- (e) Loosen four clamps (view C) securing two hoses to manifold and pre-cleaner chamber tubes.
- (f) Remove four screws and lockwashers securing manifold flange to air cleaner. Discard lockwashers.

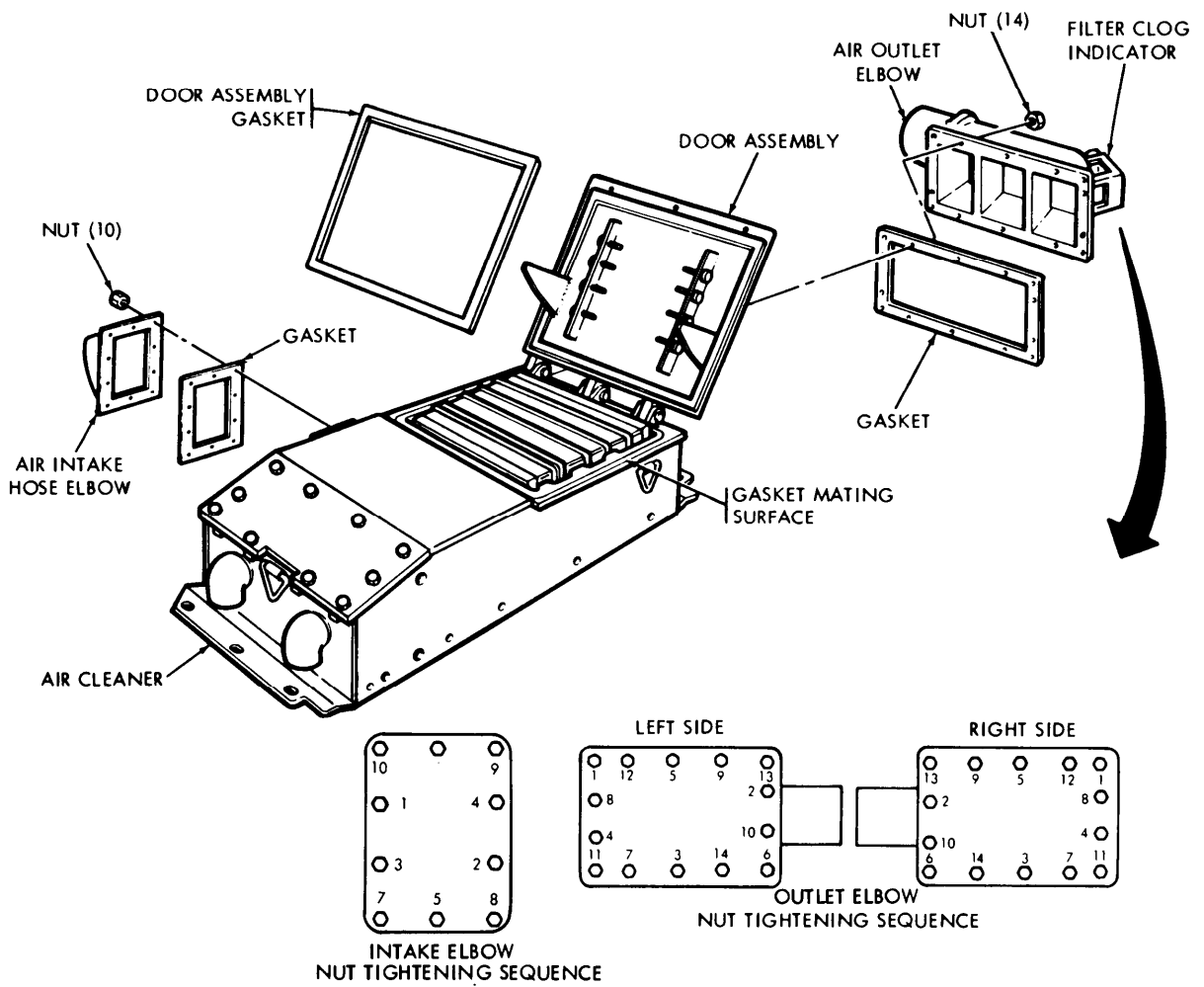


Figure 6-9. Air cleaner repair.

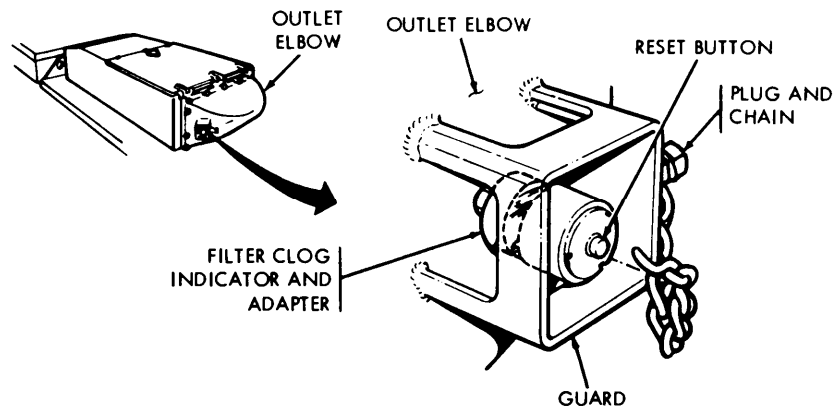


Figure 6-10. Filter clog indicator replacement.

- (g) Remove screw and lockwasher securing manifold secure bracket to air cleaner. Discard lockwasher.
- (h) Slide hose onto manifold until ends of hoses are even with edge of manifold. Turn manifold until both inlet tubes are facing up. Remove manifold.

NOTE

It may be necessary to cut manifold hoses to remove the manifold.

- (i) Remove gasket and tubes from manifold. Scrape off any remaining gasket material from manifold and air cleaner.
 - (j) Remove screw and lockwasher securing manifold secure bracket to manifold and remove bracket.
- (2) *Installation.*
- (a) Attach manifold secure bracket to manifold with screw and new lockwasher. Do not tighten.
 - (b) Apply silicone compound (item 5, appendix C) inside three hoses (view A and c). Slide two hoses (view C) on manifold.
 - (c) Put four clamps on two hoses. Leave clamps loose.
 - (d) Put new gasket (view C) on manifold flange.
 - (e) Put manifold in position in air cleaner. Slide two hoses on precleaned tubes.

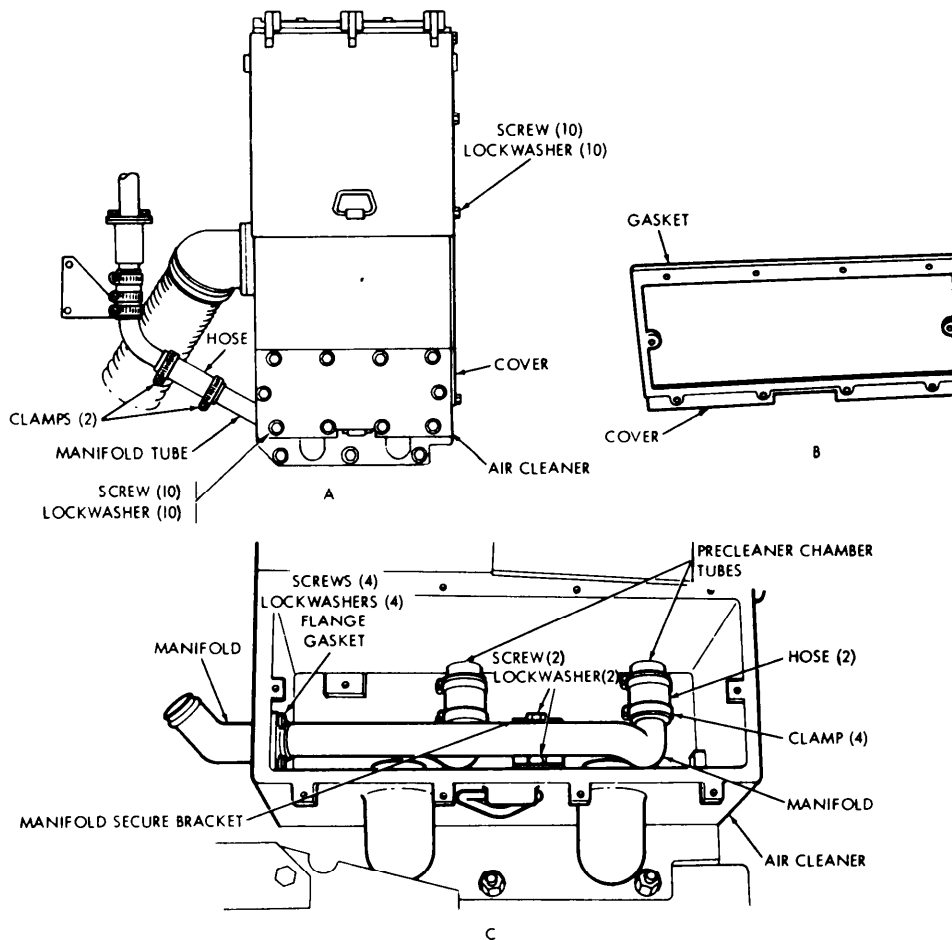


Figure 6-11. Vehicle exhaust dust ejector system (VEDES) air cleaner manifold replacement.

- (f) Coat threads of four screws (view C) with sealing compound (item 15, appendix A). Secure manifold to air cleaner with four coated screws, new lock washers, and new gasket.
- (g) Secure manifold secure bracket to air cleaner with screw and new lockwasher.
- (h) Tighten screw to secure manifold secure bracket to manifold secure bracket to manifold.
- (i) Tighten four clamps to secure two hoses to precleaner tubes and manifold
- (j) Slide hose (view A) on manifold tube. Secure with two clamps.
- (k) Cement new gasket (view B) to housing with adhesive (item 1, appendix C).
- (l) Put cover (view A) in position on air cleaner. Secure with ten screws and new lockwashers.
- (m) Close top deck grille doors.

6-15. Air Cleaner Filter Elements.

a. *General.*

An air cleaner filter clog indicator has been added to each of the air cleaner outlet elbows to indicate when the filters require servicing (fig. 6-10). When the filters are clogged the window on the indicator shows red (early model) or indicates a reading of 25 or more (late model). Remove filters and clean per para. C. Reset indicator by pressing reset button. Refer to para. 6-14d for replacement of filter clog indicator.

NOTE

Care should be taken to keep indicator free from dirt, paint, and debris for easy detection of filter condition.

b. *Removal (Fig. 6-12).*

- (1) Kneel on air cleaner door assembly and remove three screws securing door assembly to air cleaner.

CAUTION

Do not stand on door assembly when it is open.

- (2) Open door until it rests on rear fender box.
- (3) Slide filter assembly toward front of vehicle and carefully lift filter assembly from air cleaner (view B). Care must be exercised to prevent dislodging dust from element (view B). When removing filter assembly, filter seal must be kept clear of door air sealing surface lip to avoid seal damage.
- (4) Cover engine air intake opening to deep out dust.
- (5) Wipe out the air filter compartment with a damp cloth.
- (6) Check door gasket and replace if necessary (para 6-14a).

CAUTION

When storing, handling, or transporting filter element, take care not to damage seal. Do not stand element on seal end.

c. *Inspection and Cleaning (Fig. 6-12, View C).*

(1) *Inspection. Inspect air filter as follows:*

- (a) Check filter element seal for permanent indentation, excessive harness, cracks, damage, or missing.
- (b) Check filter element frame and both locking pins and springs (if equipped) for damage or missing parts.

- (c) Place light inside of filter element and check for ruptured material. Inspect from outside.
- (d) If inspection reveals any defects, replace filter element.
- (e) If filter is contaminated with dust, clean with compressed air or by washing (para. (2)(b) below).
- (f) If filter is contaminated with carbon, or oil deposits, replace filter element.
- (g) If filter element in the right air cleaner is contaminated with fuel:
 - 1. Replace filter element.
 - 2. Check for proper installation of fuel tank vent valve (para. 3-5).

(2) *Cleaning*

- (a) *Compressed air cleaning (Fig. 6-13).*

CAUTION

When shaking filter element, keep dust from inside pockets of element. Ensure that all creases and seams are free of dust, and never hit element against any surface.

- 1. Grasp filter element at sealing end and shake vigorously to shake out excessive dust.
- 2. Compressed air used for cleaning purposes must not exceed 90 psi. Use only with effective chip guarding and personal protective equipment (goggles/shield, gloves, etc.).
- 3. Using V-pack cleaner (12326132) (view A), direct stream of compressed air against inside of filter element (view B).
- 4. Move air stream up and down inside length of pleats or pocket until no dust invisibly being blown out.
- 5. Inspect element before installing.

(b) *Washing*

CAUTION

Do not hit the element against a solid object. Damage may occur to the element.

- 1. Shake or blow off dust before wetting filter element.
 - 2. Filter can be immersed in a solution of warm water (80°F to 110°F) and detergent (item 6, appendix C).
 - 3. Soak filter element in cleaning solution for 15 to 20 minutes, then gently agitate it back and forth for 2 to 3 minutes to free dust deposits.
 - 4. If a hose is used to wash or rinse filter element, care must be taken not to rupture filter material with water jet. A maximum line pressure of 40 psi is recommended with cool water (35°F to 80°F). Rinse from inside to outside.
 - 5. Rinse dust filter element until all traces of dust and detergent are removed. Thorough rinsing is very important to service life of dust filter element.
 - 6. Thoroughly dry dust filter element before further use. If circulating air is used; temperature must not exceed 160°F. If circulating air is not used, air dry for approximately 6 hours at 70° to 90° ambient temperature.
- (3) *Emergency cleaning.* If necessary to clean filter element and neither compressor not washing facilities are available, filter can be partially cleaned by gently tapping it with the palm of hand. Care must be taken to avoid damage to filter element. Banging, hitting, or tapping may cause deformation and permanent damage to filter element.

- (4) Inspection. Inspect filter element carefully for damage after cleaning. Check for rupture in filter material or damage to seal. To detect filter material rupture, place a light inside filter element and inspect from outside. If ruptured, replace with new filter element.

d. Installation (Fig. 6-12).

NOTE

Care must be taken to avoid damaging or deforming wire filter element basket during handling.

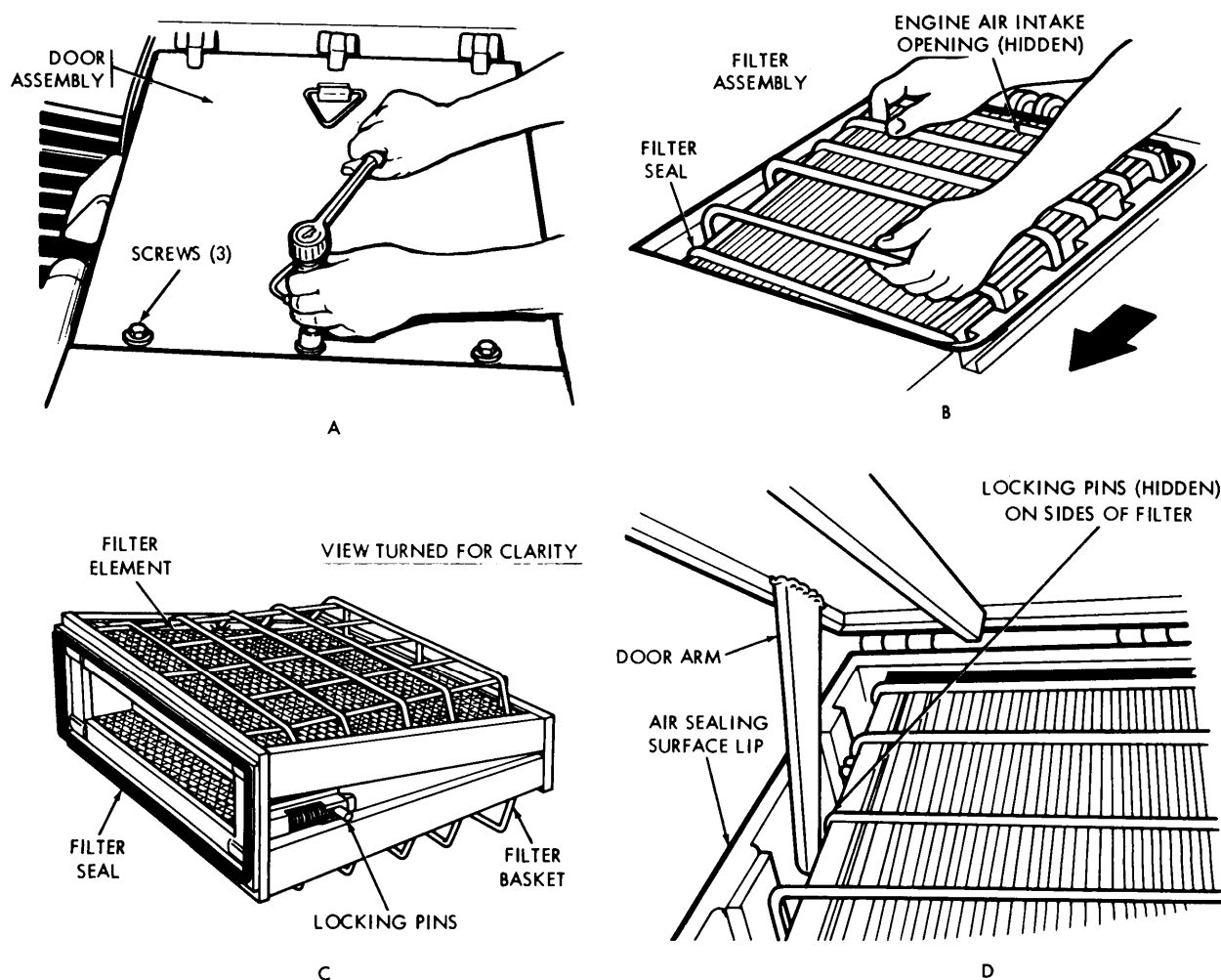


Figure 6-12. Air cleaner filter element replacement and inspection.

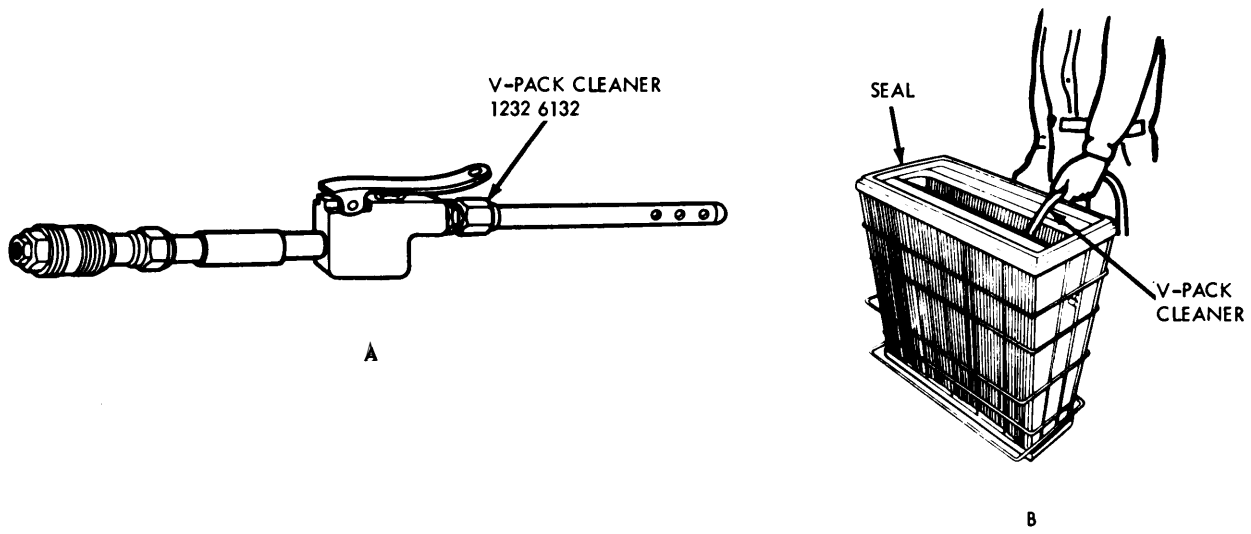


Figure 6-13. Air cleaner filter element compressed air cleaning.

NOTE

After cleaning the filter element and before installing it, ensure that the inside of the filter element housing is absolutely clean using a damp cloth.

- (1) Remove cover over engine air intake opening.
- (2) Install filter assembly by lowering it to the bottom of air filter compartment and slide filter assembly rearward to seal surfaces. Keep seal clear of sealing surface lip to avoid damage.
- (3) Close door. The filter assembly must be properly positioned in the air cleaner housing so that the door arms (view D) engage the lacing pins on the sides of the filter element frame (view C).

CAUTION

Mechanic must kneel on door to start screws, and all three screws must be tightened before force on door is released. Threads may be ripped from box if screws are not tightened all the way before force is released.

- (4) Secure with three screws (view A).

6-16. Vehicle Exhaust Dust Ejector System (VEDES).

- a. VEDES Intake Tube and Hoses Replacement (*Fig. 6-14*).

- (1) *Removal*

NOTE

Replacement of left or right VEDES intake tubes and hoses is the same. Left side shown.

CAUTION

Do not open top deck doors when air cleaner door assembly is open. Damage to air cleaner door may result.

- (a) Open top deck grille doors.
- (b) Remove tube clamp, screw, and locking nut securing VEDES intake tube to bracket. Discard nut.
- (c) Loosen four hose clamps securing VEDES intake tube and two hoses to manifold tube and check valve. Remove VEDES intake tube and hoses.
- (d) Take hoses and clamps off VEDES intake tube.
- (2) *Installation.*
 - (a) Apply silicone compound (item 5, appendix C) inside two hoses.
 - (b) Put tube clamp in position on VEDES intake tube.
 - (c) Put hoses on VEDES intake tube. Put four hose clamps loosely on hoses.
 - (d) Put VEDES intake tube in position with long hose toward air cleaner manifold tube, and short hose toward check valve.
 - (e) Tighten four hose clamps to secure VEDES intake tube and hose to check valve and air cleaner manifold tube.
 - (f) Secure VEDES intake tube to bracket with tube clamp, screw, and new locking nut.
 - (g) Close top deck grille doors.
- b. Check Valve Replacement (*Fig. 6-15*). **NOTE**

Replacement of left or right check valve is the same. Left side shown.

CAUTION

Do not open top deck doors when air cleaner door assembly is open. Damage to air cleaner door may result.

Do not step on VEDES tubes. Damage to tubes may result.

(1) *Removal.*

(a) Open top teck grille doors.

(b) Remove VEDES intake tube and hoses (a, above).

(c) Remove two screws and two lockwashers securing check valve and gasket to intermediate scavenge tube flange. Discard lockwashers.

(d) Remove check valve and gasket from intermediate scavenge tube flange. Discard gasket. Scrape any remaining gasket material off check valve and intermediate scavenge tube flange.

(2) *Installation.*

(a) Put new gasket and check valve in position on intermediate scavenge tube flange. Secure with two screws and two new lockwashers.

(b) Install VEDES intake tube and hoses (a, above).

(c) Close top deck grille doors.

c. Intermediate Scavenge Tube Replacement - Left or Right Bank (*Fig. 6-16*).

NOTE

Replacement procedures are the same for both the left and the right bank intermediate scavenge tubes.

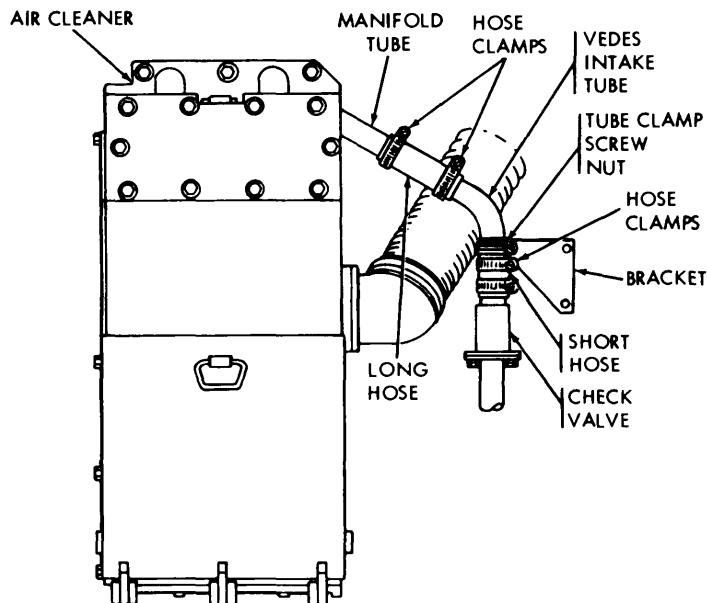


Figure 6-14. VEDES intake tube and hoses replacement.

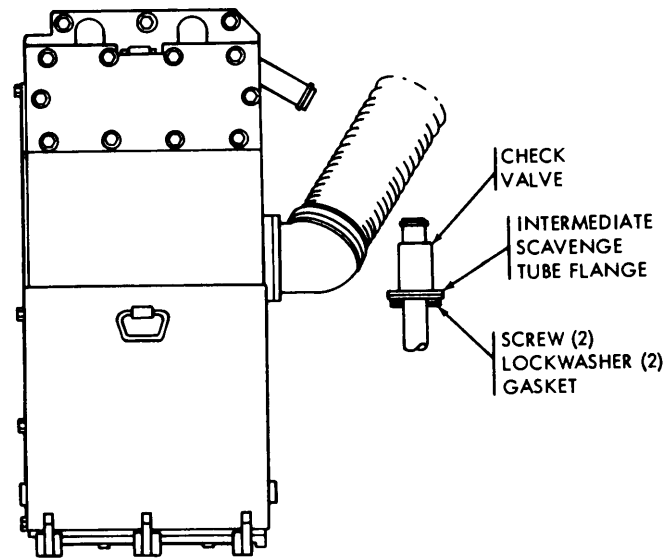


Figure 6-15. Check valve replacement.

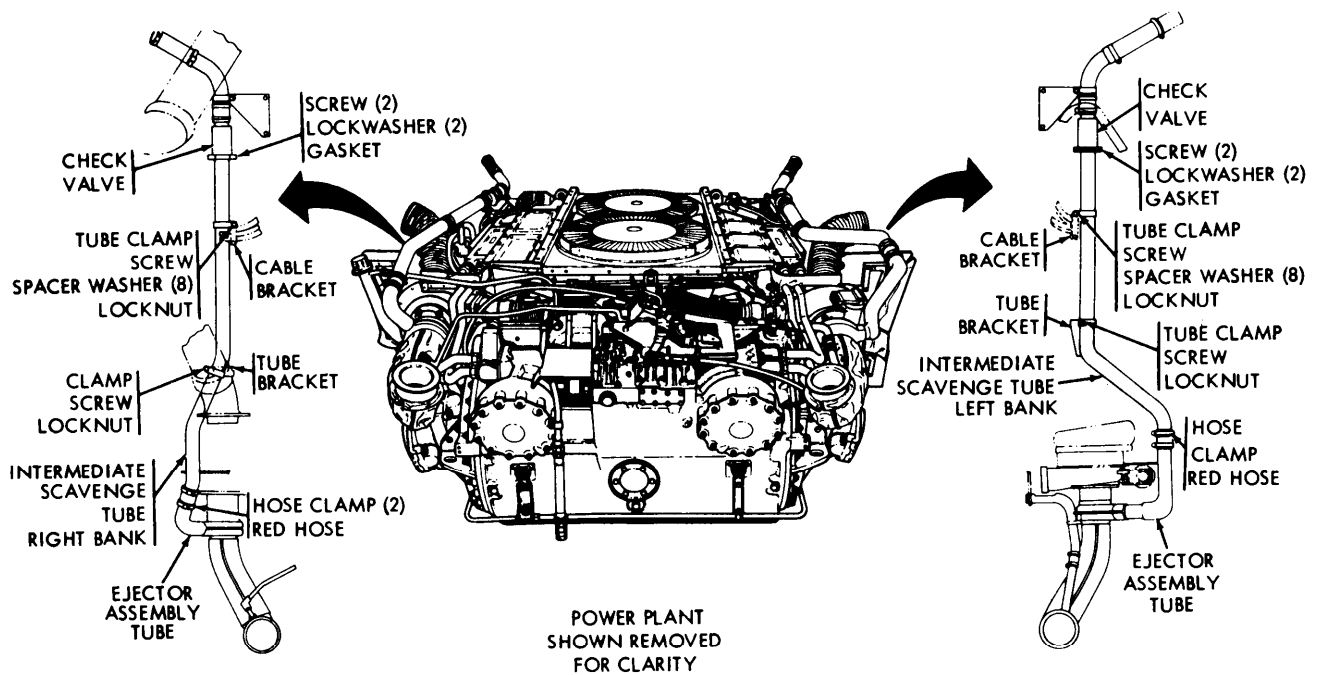


Figure 6-16. Intermediate scavenge tube replacement - left or right bank.

CAUTION

Do not open top deck doors when air cleaner door assembly is open. Damage to air cleaner door may result.

(1) Removal.

- (a) Open top deck grille doors.
- (b) Loosen two hose clamps on red hose securing intermediate scavenge tube to ejector assembly tube.
- (c) Remove tube clamp, screw, and locking nut securing intermediate scavenge tube to tube bracket. Discard nut.
- (d) Remove tube clamp, screw, eight spacer washers, and locking nut securing scavenge tube to cable bracket. Discard nut.
- (e) Remove two screws and washers, securing scavenge tube to check valve.
- (f) Use twisting motion and separate scavenge tube from check valve and from red hose.
- (g) Remove gasket from between scavenge tube flange and check valve. Discard gasket.
- (h) Scrape any remaining gasket material off mating faces of check valve and scavenge tube.
- (i) Inspect red hose for cracks, drying, or other signs of deterioration or damage. Replace if necessary.

(2) Installation.

- (a) Apply silicone compound (item 19, appendix C) inside red hose.
- (b) Put two hose clamps loosely over red hose.
- (c) Put intermediate scavenge tube in position. Join scavenge tube to ejector assembly tube using red hose.
- (d) Align flange and screw holes of scavenge tube with flange and screw holes of check valve.
- (e) Put new gasket between scavenge tube and check valve; secure with two screws and new lockwashers.
- (f) Tighten clamps on red hoses.
- (g) Secure scavenge tube to tube bracket using tube clamp, screw, and new locking nut.
- (h) Secure scavenge tube to cable bracket using tube clamp, screw, eight spacer washers and new locking nut.
- (i) Close top deck grille doors.

d. Exhaust Ejector Assemblies Replacement (Fig. 6-17).**(1) Removal.**

- (a) Remove transmission shroud (TM 20-1).
- (b) Remove top deck assembly (TM 20-1).
- (c) Remove powerplant (TM 20-1).

NOTE

Step (d) applies to vehicle left side (engine right bank) ejector only (view A).

- (d) Loosen nut and disconnect transmission breather tube from ejector assembly (view A).

NOTE

Steps (e) through (f) apply to vehicle right side (engine left bank) ejector only (view B).

- (e) Remove clamp, screw, and nut securing engine breather adapter tube to ejector assembly bracket (view B).
- (f) Loosen four clamps and hoses securing ends of engine breather adapter tube to engine breather tube and ejector engine breather extension.
- (g) Remove engine breather adapter tube.

NOTE

Steps (h) through (l) apply to both right and left sides.

- (h) Loosen clamps and hose securing ejector assembly to intermediate scavenge tube (views A and B).
 - (i) Remove six nuts securing ejector assembly and gasket to turbosupercharger (view A, B, and C). Remove ejector from turbosupercharger. Discard gasket.
 - (j) Scrape any remaining gasket material from mating surfaces of turbosupercharger and ejector assembly.
 - (k) Loosen clamp and remove clamp and packing from neck of ejector assembly (view C).
 - (l) Remove screw, two flatwashers, lockwasher, and nut (11 places) securing two insulation halves to ejector assembly.
- (2) *Installation.*

NOTE

Steps (a) through (c) apply to both right and left sides.

- (a) Install insulation, if serviceable, on replacement ejector assembly (view C). Secure with screw, two washers, lockwasher, and nut at 11 locations. Use new insulation and hardware as necessary.
- (b) Put packing, if serviceable, on neck of ejector. Secure with clamp. Use new packing if necessary.
- (c) Put new gasket and ejector assembly in position on turbosupercharger studs. Secure ejector assembly to intermediate scavenge tube with hose and two clamps (views A and B). Use new hose and clamps as required. Secure ejector assembly to turbosupercharger with six new locknuts.

NOTE

Steps (d) and (e) apply to vehicle right side (engine left bank) ejector only (view B).

- (d) Secure engine breather adapter tube between engine breather tube and ejector engine breather extension (view B) with two hoses and four clamps. Use new hoses and clamps as required.
- (e) Secure engine breather adapter tube to ejector assembly bracket with clamp, screw, and nut (view B).

NOTE

Step (f) applies to vehicle left side (engine right bank) ejector only (view A).

- (f) Connect transmission breather tube to ejector assembly (view A). Secure with nut.
- (g) Install powerplant (TM 20-1).
- (h) Install top deck assembly (TM 20-1).
- (i) Install transmission shroud (TM 20-1).

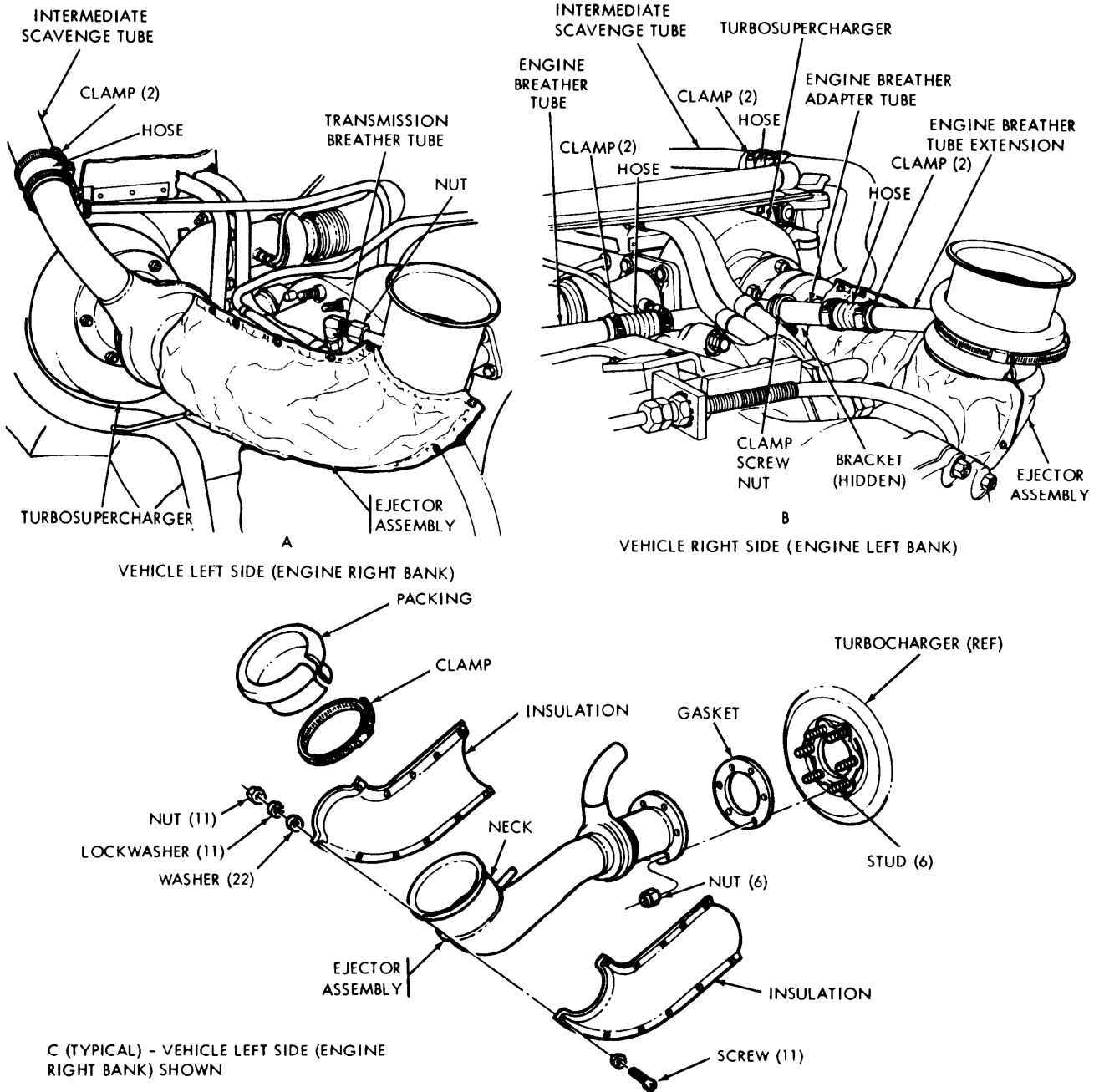


Figure 6-17. Exhaust ejector assemblies replacement.

6-17. Dust Detector

- a. *Filter Strip Cover Assembly Replacement (Fig. 6-18).*

NOTE

Replacement procedures are the same for both the left and right cover assemblies.

WARNING

Engine components are hot after engine has been running. Take precaution to avoid burns.

(1) Removal.

- (a) Open top deck grille doors to expose turbosupercharger compressor housing (view A).
- (b) Clean dust and dirt from filter strip cover.
- (c) Remove hook and chain from filter strip cover.

CAUTION

Take care not to drop filter strip or retainer when servicing dust detector.

- (d) Remove three captive screws securing filter strip cover to turbosupercharger compressor housing. Remove cover.
- (e) Cover compressor housing mounting surface (view B) with clean rag to keep contaminants out of orifices while filter strip cover is off.

(2) Installation

- (a) Make sure compressor housing mounting surface (view B) and orifices are clean and dry. Apply three dabs of adhesive sealer (item 2, appendix C) equally spaced to each of the cover grooves. Wipe off excess adhesive sealer with clean cloth.
- (b) Install new preformed packings in new filter strip cover grooves (view C).
- (c) Put new filter strip in cover (view C).
- (d) Pull out filter strip so that it extends about 1/2 inch past edge of cover.
- (e) Put cover in position on compressor housing. Secure with three captive screws (view A).
- (f) Install hook and chain on cover.
- (g) Close top deck grille doors.

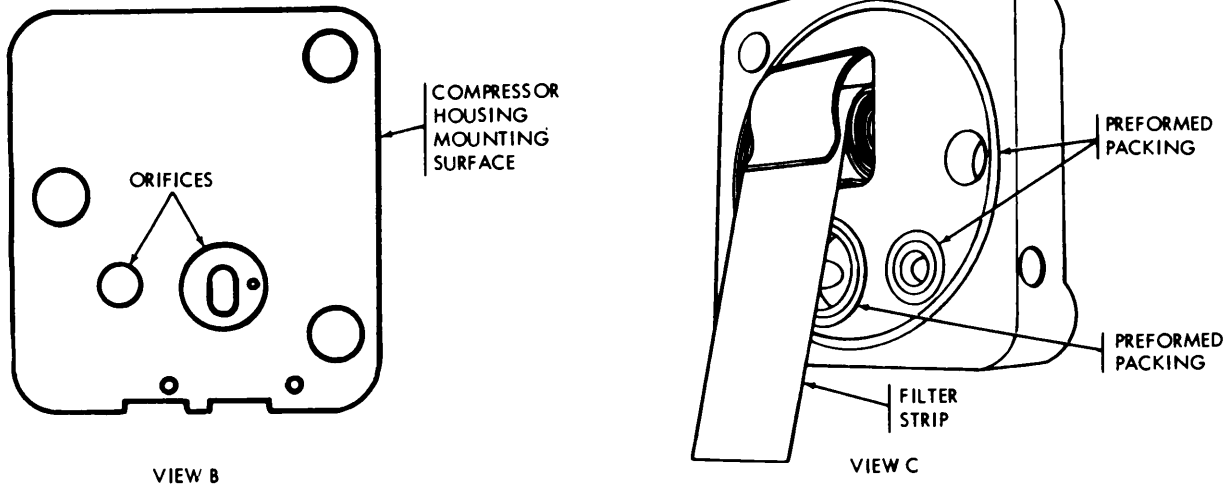
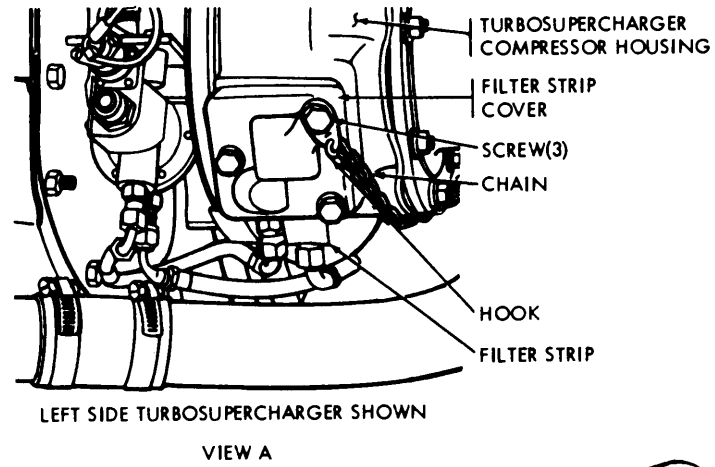


Figure 6-18. Dust detector filter strip cover assembly replacement.

b. *Pressure Switch and Air Hoses Replacement (Fig. 6-19).*

NOTE

Replacement procedures are the same for pressure switch and air hoses on left and right sides.

(1) *Removal*

- (a) Open top deck grille doors to expose turbosupercharger and pressure switch (view A).
- (b) Disconnect high and low air pressure hoses from pressure switch and from turbosupercharger compressor housing filter. Remove hoses.
- (c) Remove screw and lockwasher securing pressure switch mounting bracket to turbosupercharger mounting support. Remove pressure switch and mounting bracket.
- (d) Remove screw and lock-washer securing harness assembly ground lead to pressure switch mounting bracket.
- (e) Disconnect harness assembly connector from pressure switch (view B).
- (f) Remove adapters and packings from inlet and outlet (HIGH and LOW) ports of pressure switch. Discard packings.
- (g) Remove two remaining screws and lock washers securing pressure switch to mounting bracket. Separate pressure switch from mounting bracket.

(2) *Installation*

- (a) Put replacement pressure switch on mounting bracket and secure with two bottom screws and lock washers (Top screw and lock washer will be put in when ground lead is installed later).
- (b) Install adapters and new packings in inlet and outlet (HIGH and LOW) ports of replacement pressure switch.
- (c) Connect harness assembly connector to electrical connector on pressure switch.
- (d) Install harness assembly ground lead on pressure switch mounting bracket with screw and lockwasher.
- (e) Position assembled pressure switch and mounting bracket on turbo-supercharger mounting support and secure with screw and lockwasher.

NOTE

Long air pressure hoses go on engine right bank pressure switch, short air pressure hoses go on engine left bank pressure switch.

- (f) Install air pressure hoses on adapters in pressure switch and turbosupercharger compressor filter housing.
- (g) Perform dust detector operational test (para. 6-17j).
- (h) Close top deck grille doors.

c. *Engine Wiring Harness Replacement (Fig. 6-20).*

(1) *Removal*

- (a) Disconnect three battery ground cable assemblies from battery terminals.
- (b) Remove top deck transmission shroud and engine shroud (TM 20-1).
- (c) Remove screw and lockwasher securing wiring harness ground lead to right and left bank pressure switch mounting brackets (view A). Disconnect ground lead.

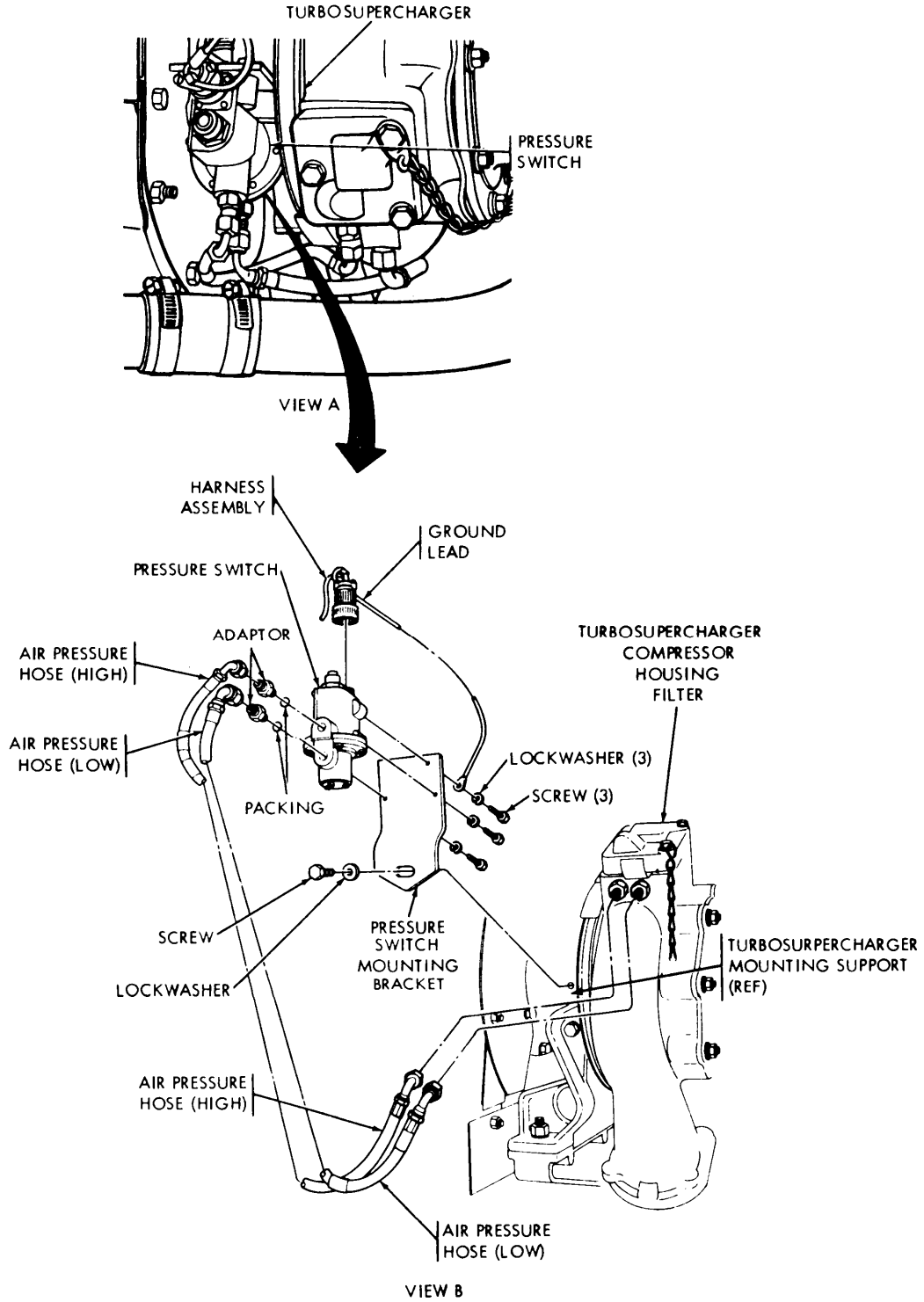


Figure 6-19. Pressure switch and hoses replacement.

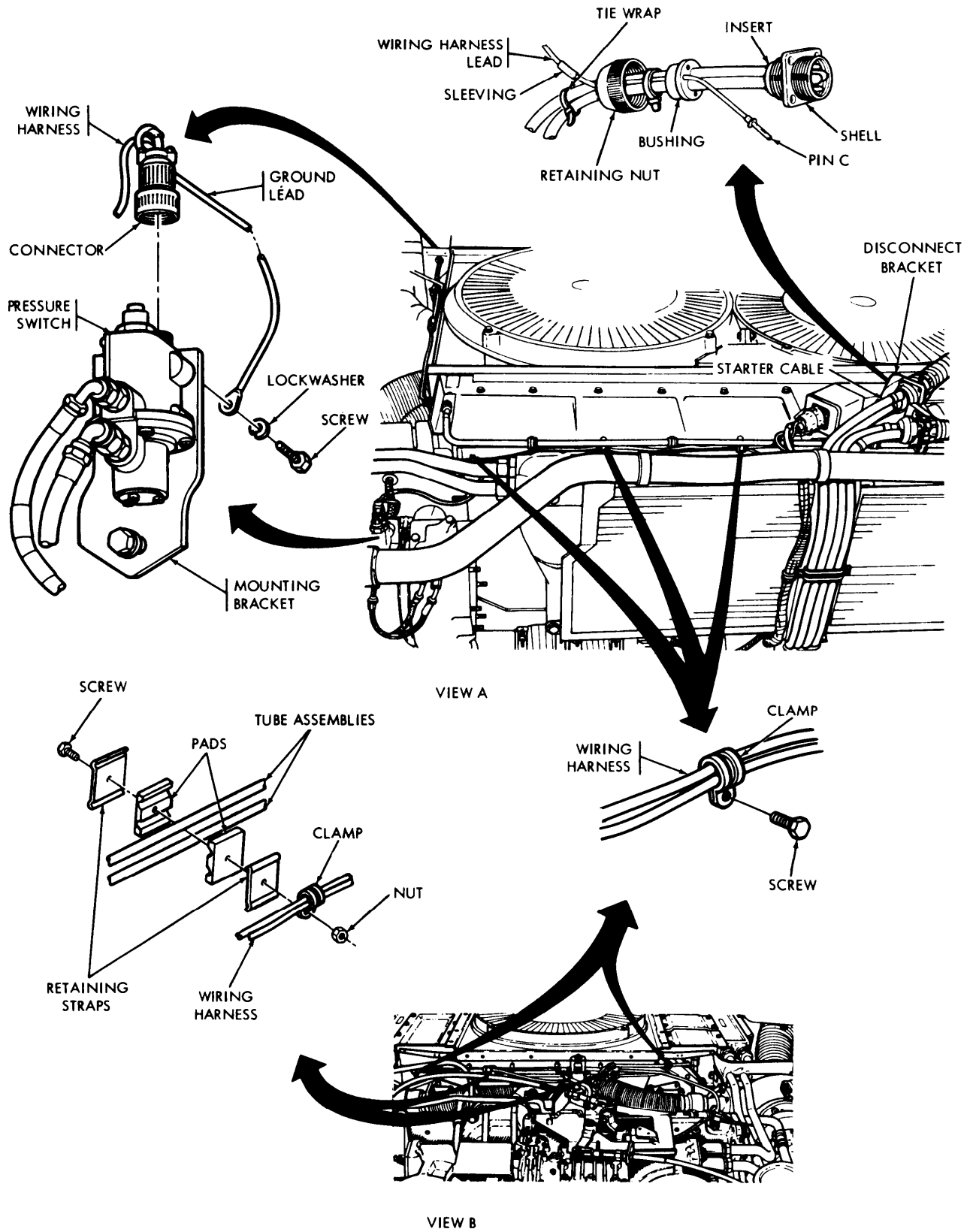


Figure 6-20. Engine wiring harnesses replacement.

- (d) Disconnect wiring harness connector from right and left bank pressure switches.
- (e) Remove screw and nut securing wiring harness and clamp to tube pad retaining straps at two locations at rear of engine (view B). Take clamps off wiring harness.
- (f) Remove screw and clamp securing wiring harness at two locations at rear of engine. (view A). Take clamps off wiring harness.
- (g) Disconnect starter cable at disconnect bracket (view A). Cut tie wraps.
- (h) Remove four screws and nuts securing starting cable connector to disconnect bracket. Remove connector from bracket (view A).
- (i) Unscrew retaining nut from shell. Slide retaining nut back along cable (view A).
- (j) Slide sleeving back along wiring harness lead (view A).
- (k) Slide bushing back along cable (view A).
- (l) Remove pin from position "C" of insert (view A).
- (m) Pull lead from bushing and retaining nut (view A).
- (n) Remove wiring harness from engine.

(2) *Installation*

- (a) Lay wiring harness in position on engine between pressure switches and starter cable disconnect bracket (views A and B).
- (b) Connect wiring harness long lead connector to right bank pressure switch and wiring harness short lead connector to left bank pressure switch (view A).
- (c) Connect ground leads to right and left bank pressure switch mounting brackets (view A). Secure with screws and new lockwashers.
- (d) At two locations at rear of engine (view B), assembly pads and retraining straps around tube assemblies. Pull slack out of wiring harness and secure wiring harness to retaining straps with clamp, screw, and nut.
- (e) At two locations at rear of engine and at three locations along top left side of engine, route wiring harness along with smoke generator wiring harness and secure both harnesses with engine with clamp and screw (views A and B).
- (f) Temporarily place shell in position in bracket (view A).
- (g) Insert pin into position "C" of insert (view A).
- (h) Push insert into position in shell (view A).
- (i) Slide bushing against insert and slide sleeving against bushing (view A).
- (j) Install retaining nut onto shell and tighten (view A).
- (k) Place connector into disconnect bracket and secure with four screws and nuts (view A).
- (l) Connect starter cable at disconnect bracket (view A). Install tie wraps as required.
- (m) Perform dust detector operational test (para. 6-17j).
- (n) Install engine shroud, transmission shroud, and top deck (TM 20-1).

d. *Engine to Bulkhead Lead Assembly Replacement (Fig. 6-21).*

(1) *Removal*

CAUTION

Loosen retaining nut (view B) of starter feed harness connector before removing powerplant. Failure to do so may damage connector.

- (a) Disconnect three battery ground cable assemblies from battery terminals.
- (b) Remove powerplant (TM 20-1).
- (c) Remove right side bulkhead access cover (TM 20-1).

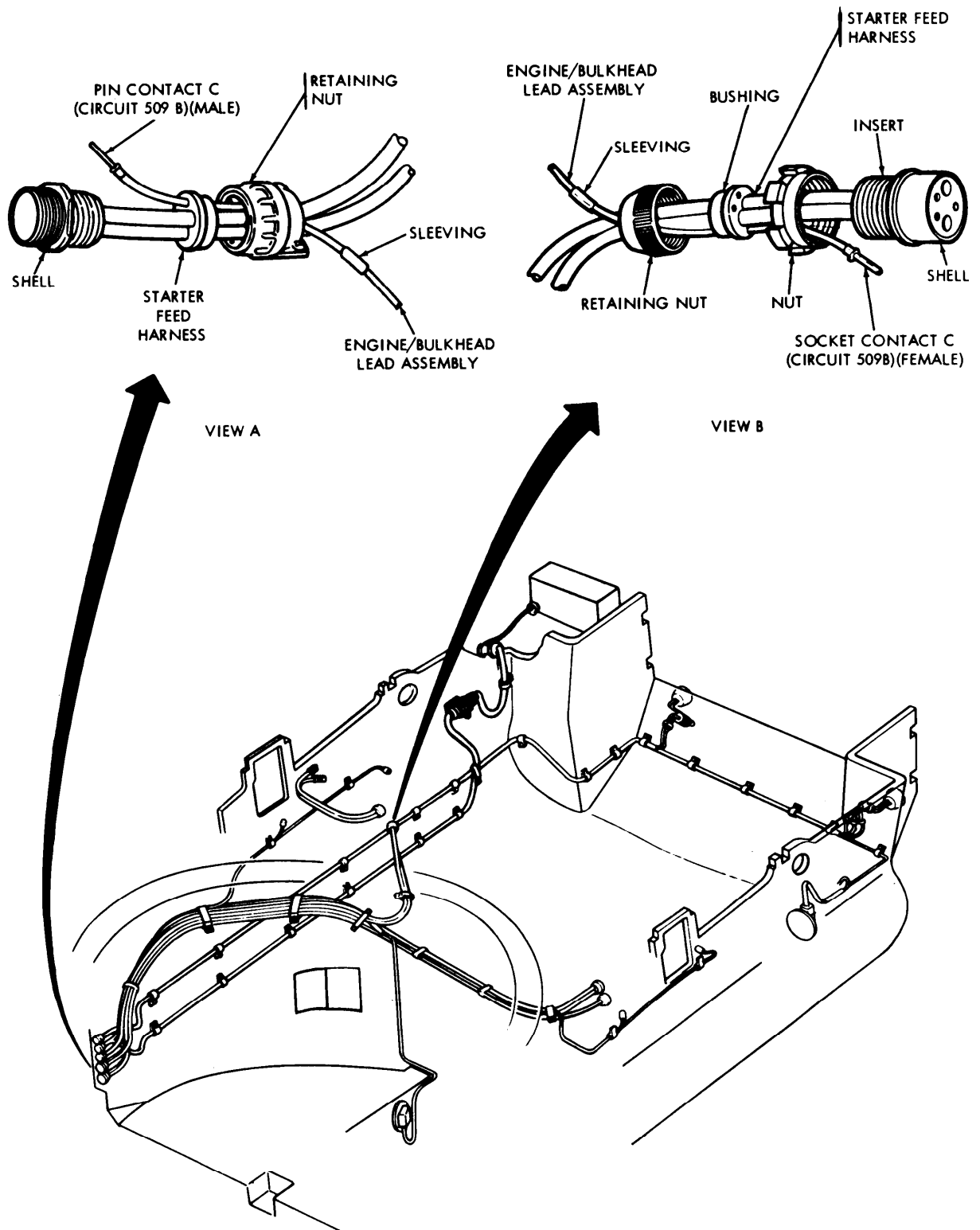


Figure 6-21. Engine to bulkhead lead assembly replacement.

- (d) Disassemble starter feed harness connector at bulkhead end of harness (view A).
 - (e) Remove pin C (Circuit 509B) from position "C" of harness connector shell (view A).
 - (f) Pull lead assembly out of retaining nut (view A).
 - (g) Remove tie wraps securing lead assembly to starter feed harness.
 - (h) Disassemble connector at engine end of starter feed harness (view B).
 - (i) Remove socket contact C (circuit 509B) from harness connector shell (view B).
 - (j) Pull lead assembly from bushing and retaining nut (view B).
 - (k) Remove engine to bulkhead lead assembly from vehicle.
- (2) *Installation.*

CAUTION

Make sure lead is totally encased in feed harness protective wrap assembly.

- (a) Route engine to bulkhead lead assembly along starter feed harness with male pin contact of lead toward bulkhead end of harness and female socket contact of lead toward engine end of harness.
 - (b) Pass female socket contact C (Circuit 509 B) of lead through retaining nut and bushing and install contact in position "C" of harness connector shell insert (view B).
 - (c) Push bushing into position against insert, slide sleeving against bushing, and tighten retaining nut onto shell.
 - (d) At bulkhead end, push male pin contact C (Circuit 509B) of lead through retaining nut and install contact in position "C" of harness connector shell (view A).
 - (e) Slide sleeving against shell and tighten retaining nut onto shell.
 - (f) Connect starter feed harness connector to bulkhead connector.
 - (g) Secure engine to bulkhead lead assembly to starter feed harness with new tie wraps.
 - (h) Install right side bulkhead access cover (TM 20-1).
 - (i) Install powerplant (TM 20-1).
- e. *Hull Intermediate Lead Assembly Replacement (Fig. 6-22).*
- (1) *Removal.*
 - (a) Disconnect three battery ground cable assemblies from battery terminals.
 - (b) Loosen retaining nut on starter cable at bulkhead connector (view A). Disconnect starter cable at bulkhead connector (view A). Disconnect starter cable at bulkhead connector (view A).
 - (c) Disassemble starter cable connector.
 - (d) Remove hull intermediate lead assembly socket contact 509B from position "C" of plug assembly.
 - (e) Pull lead assembly back through retaining nut.
 - (f) Cut tie wraps securing lead assembly to harness bundle and, working back toward driver's compartment (view B), pull lead assembly from beneath retaining straps.
 - (g) At gage indicator panel in driver's compartment, disconnect lead assembly connector 509B from short lead on dust detector warning light wiring harness.
 - (h) Remove hull intermediate lead assembly from vehicle.

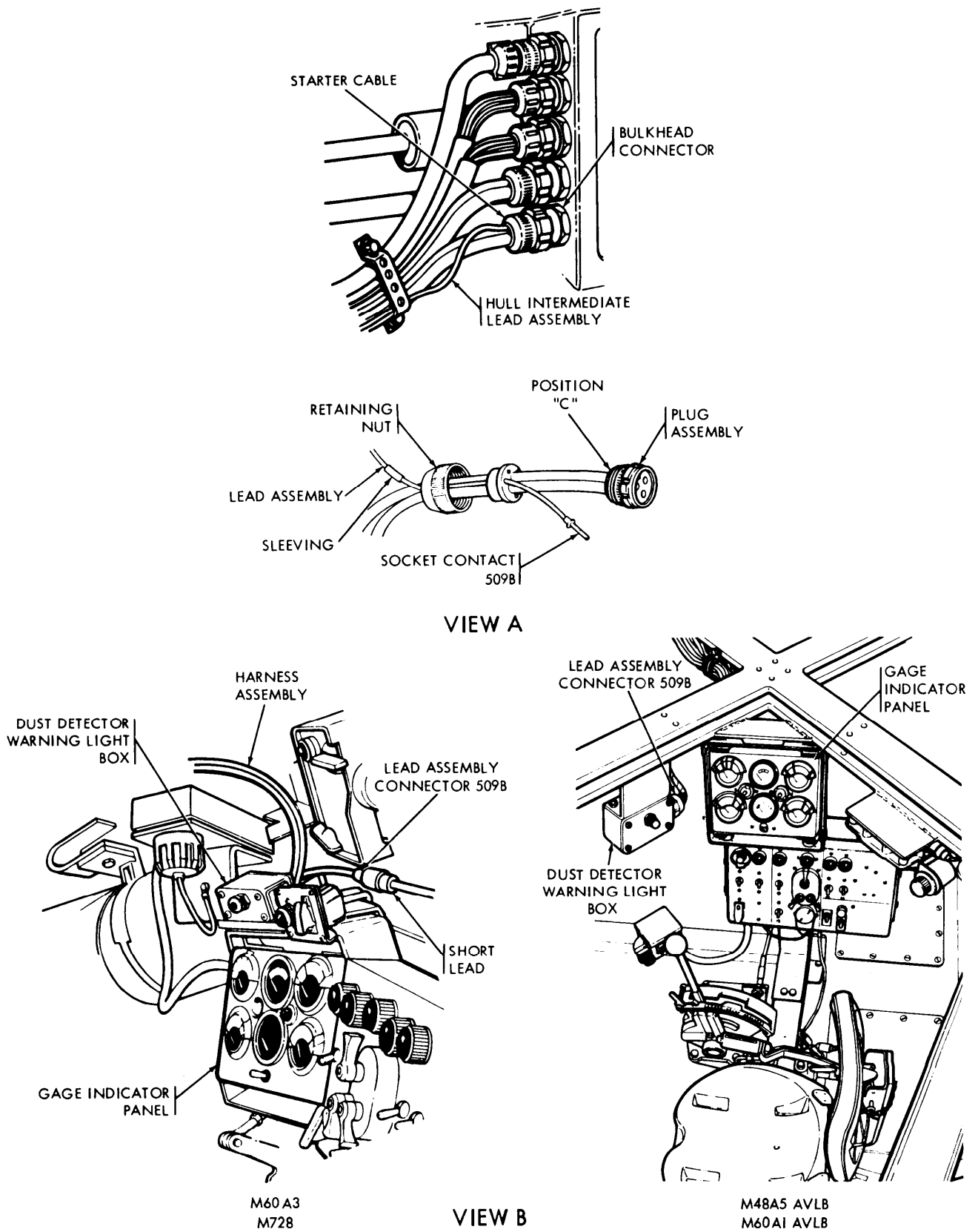


Figure 6-22. Hull intermediate lead assembly replacement.

(2) *Installation*

- (a) Connect connector 509B of replacement hull intermediate lead assembly to short lead of dust detector warning light harness assembly (view B).
- (b) Route socket contact end of replacement hull intermediate lead assembly beneath cable retaining straps from dust detector warning light box (view B) to starter cable bulkhead connector (view A).
- (c) At bulkhead connector (view A) push lead assembly socket contact 509B through retaining nut and install contact in position "C" of starter cable plug assembly (view A).
- (d) Assemble retaining nut to starter cable plug assembly and connect plug assembly to bulkhead connector.
- (e) Secure lead assembly to harness bundle with tie wrap as required.

f. *Dust Detector Warning Light Wiring Harness Assembly Replacement (Fig. 6-23).*

(1) *Removal*

- (a) Disconnect three battery ground cable assemblies from battery terminals.
- (b) Disconnect four lead connectors connecting dust detector warning light wiring harness to front master harness assembly and powerplant warning light harness.
- (c) Remove screw and lockwasher securing dust detector warning light ground lead alongside of gage indicator panel.
- (d) Disconnect dust detector warning light wiring harness short lead 509B from hull intermediate lead assembly 509B.
- (e) Disconnect harness connector from dust detector warning light box.
- (f) Remove dust detector warning light wiring harness from vehicle.

(2) *Installation*

- (a) Connect harness connector to dust detector warning light box.
- (b) Connect dust detector warning light short lead 509B to hull intermediate lead assembly.
- (c) Secure dust detector warning light ground lead with screw and lockwasher alongside driver's gage indicator panel.
- (d) Connect dust detector warning light wiring harness lead connectors 509A and 509L to lead connectors 509A and 509L of powerplant warning light wiring harness and front master harness assembly.
- (e) Connect three ground cables to batteries.
- (f) Press test lamp on dust detector warning light box to insure circuit is functioning.

g. *Dust Detector Warning Light Box Assembly Replacement (M60A3) (Fig. 6-24).*

(1) *Removal*

- (a) Disconnect harness connector from dust detector warning light box (view A).

CAUTION

Support gage indicator panel mounting bracket when removing light box mounting screws. Gage indicator panel mounting bracket is secured using the same screws and may fall.

- (b) Remove four screws and lockwashers securing bracket, dust detector warning light box assembly, and spacer to switch bracket on gage indicator panel (view B).
- (c) Remove two screws, nuts, and lockwashers securing dust detector warning light box assembly to bracket. Separate box assembly and bracket.

(2) *Installation*

- (a) Put dust detector warning light box assembly in position on bracket and secure box assembly to bracket with two screws, lockwashers, and nuts. Make sure screws are installed from bottom (view B).
- (b) Put spacer in position on switch bracket on gage indicator panel.
- (c) Put dust detector warning light box assembly and bracket on top of spacer, secure bracket and spacer to switch bracket with four screws and lockwashers.

CAUTION

Do not overtighten harness connector (view A) damage to connector may result.

- (d) Tighten harness connector on dust detector warning light box assembly (view A).

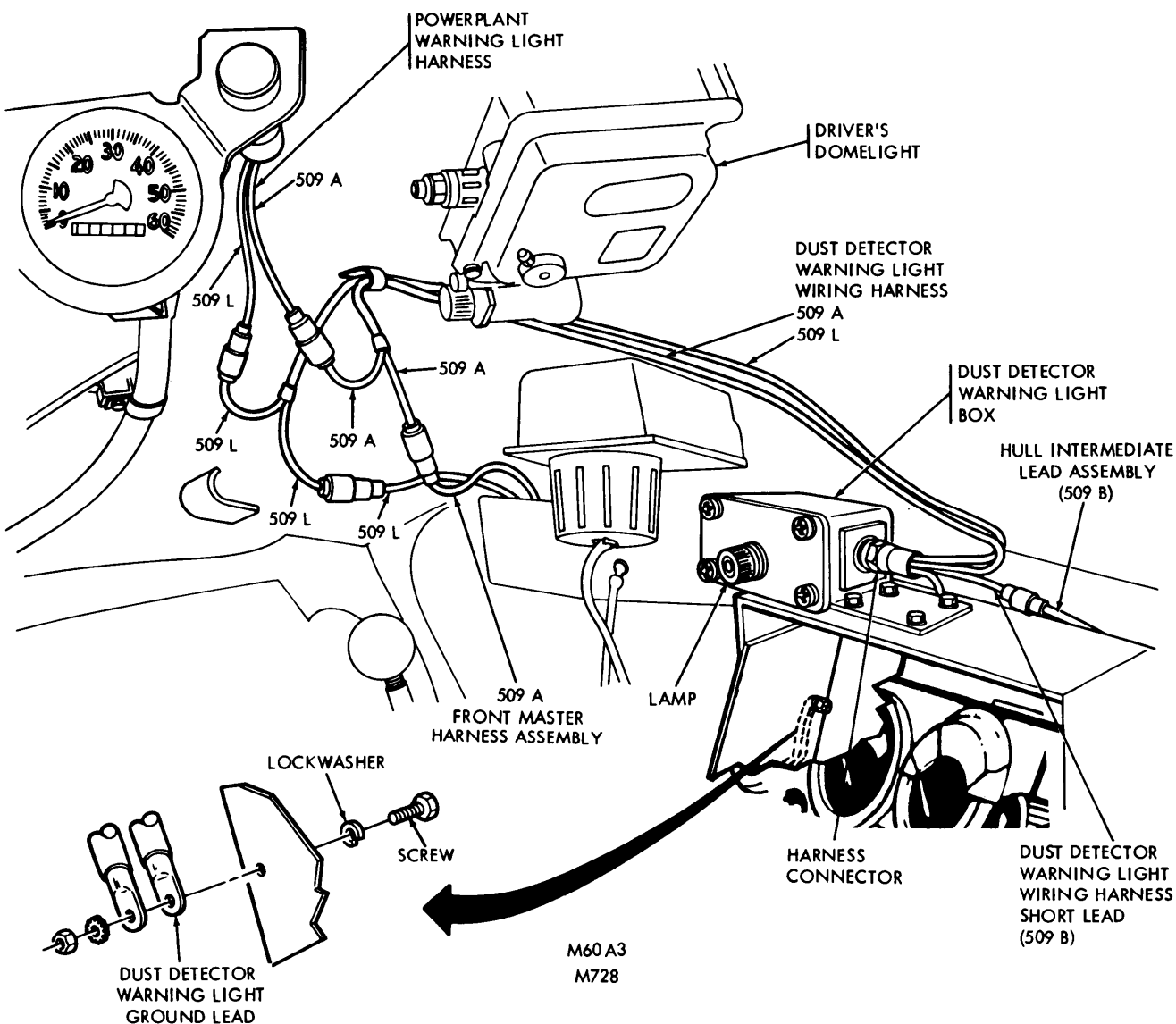


Figure 6-23. Dust detector warning light wiring harness assembly replacement (Sheet 1 of 2).

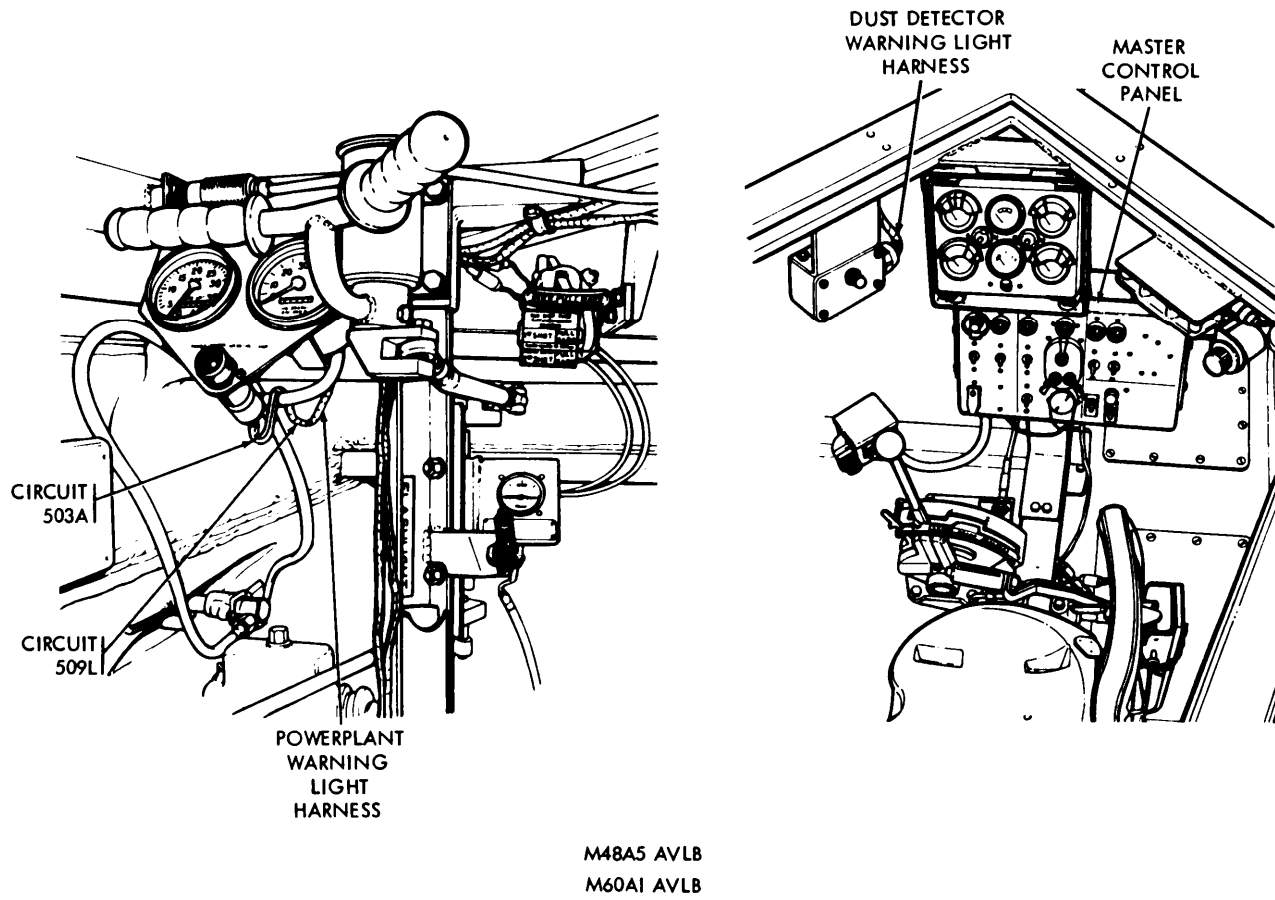


Figure 6-23. Dust detector warning light wiring harness assembly replacement (sheet 2 of 2).

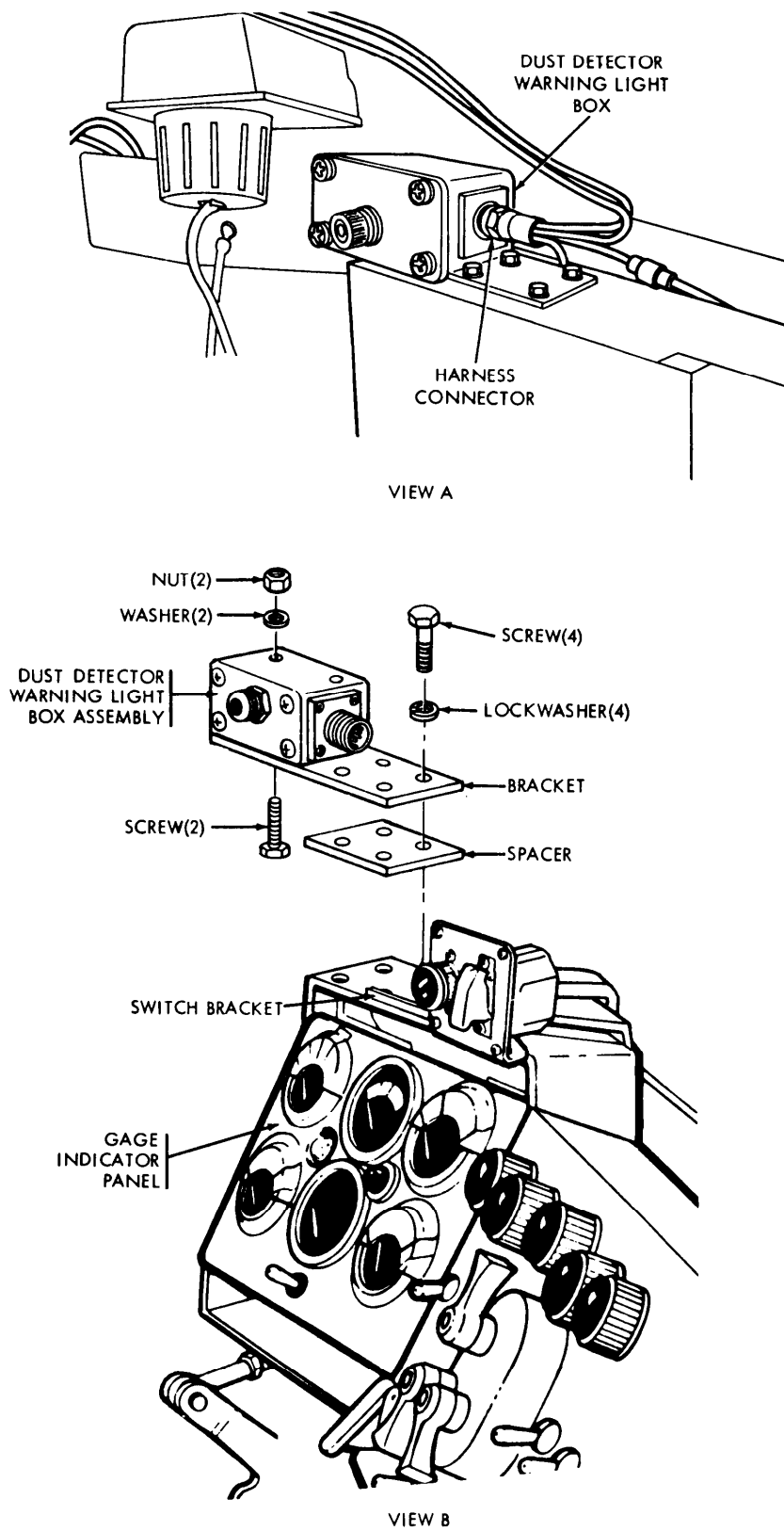


Figure 6-24. Dust detector warning light box assembly replacement (M60A3).

h. Dust Detector Warning Light Box Assembly Replacement (M728) (Fig. 6-25).

(1) Removal.

- (a)* Disconnect harness connector from dust detector warning light box assembly.
- (b)* Remove two screws, nuts and lockwashers securing bracket and dust detector warning light box assembly to gage indicator panel support bracket.
- (c)* Separate dust detector warning light box assembly from bracket.

(2) Installation

- (a)* Position bracket and dust detector warning light box assembly on gage indicator support bracket.
- (b)* Secure dust detector warning light box assembly and bracket to gage indicator support bracket with two screws, lockwashers and nuts.

CAUTION

Do not overtighten harness connector. Damage to connector may result, if overtightened.

- (c)* Connect harness connector to dust detector warning light box assembly.

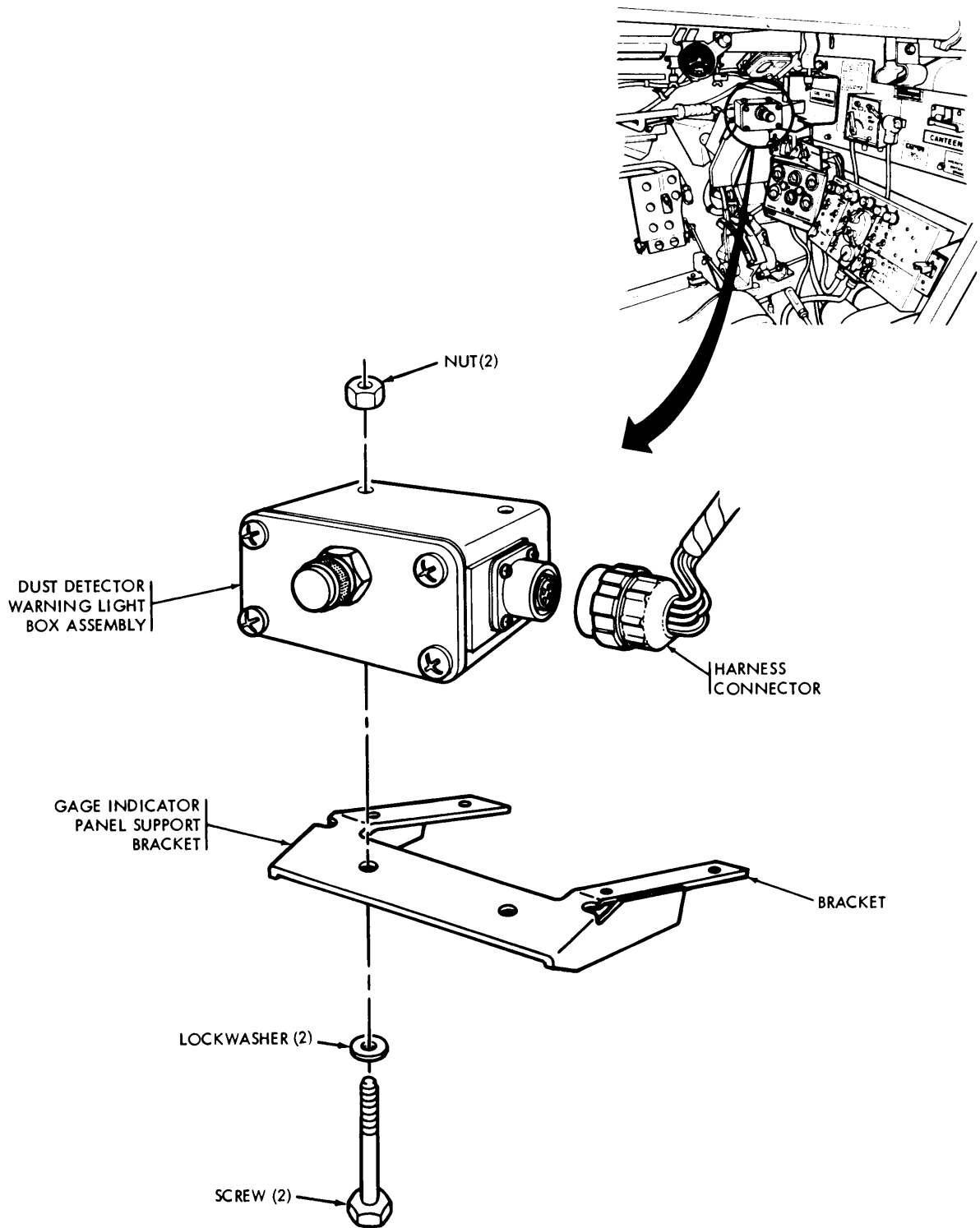


Figure 6-25. Dust detector warning light box assembly replacement (M728).

- i. *Dust Detector Warning Light Box Assembly Replacement (M48A5 AVLB, M60A1 AVLB)*
(Fig. 6-26).

(1) *Removal*

- (a) Disconnect harness connector from dust detector warning light box assembly.
- (b) Remove two screws, nuts and lockwashers securing bracket and dust detector warning light box assembly to support bracket.
- (c) Remove dust detector warning light box assembly from support bracket.

NOTE

If support bracket is to be replaced go to step (d).

- (d) Remove two screws and lockwashers securing support bracket to launcher basket.
- (e) Remove bracket.

(2) *Installation*

NOTE

If support bracket was removed go to step (a), if not, go to step (b).

- (a) Position support bracket on launcher basket and secure using two screws and lockwashers.
- (b) Position bracket and dust detector warning light box assembly on support bracket and secure using two screws, lockwashers and nuts.

CAUTION

Do not overtighten harness connector. Damage to connector may result if overtightened.

- (c) Connect harness connector to dust detector warning light box assembly.

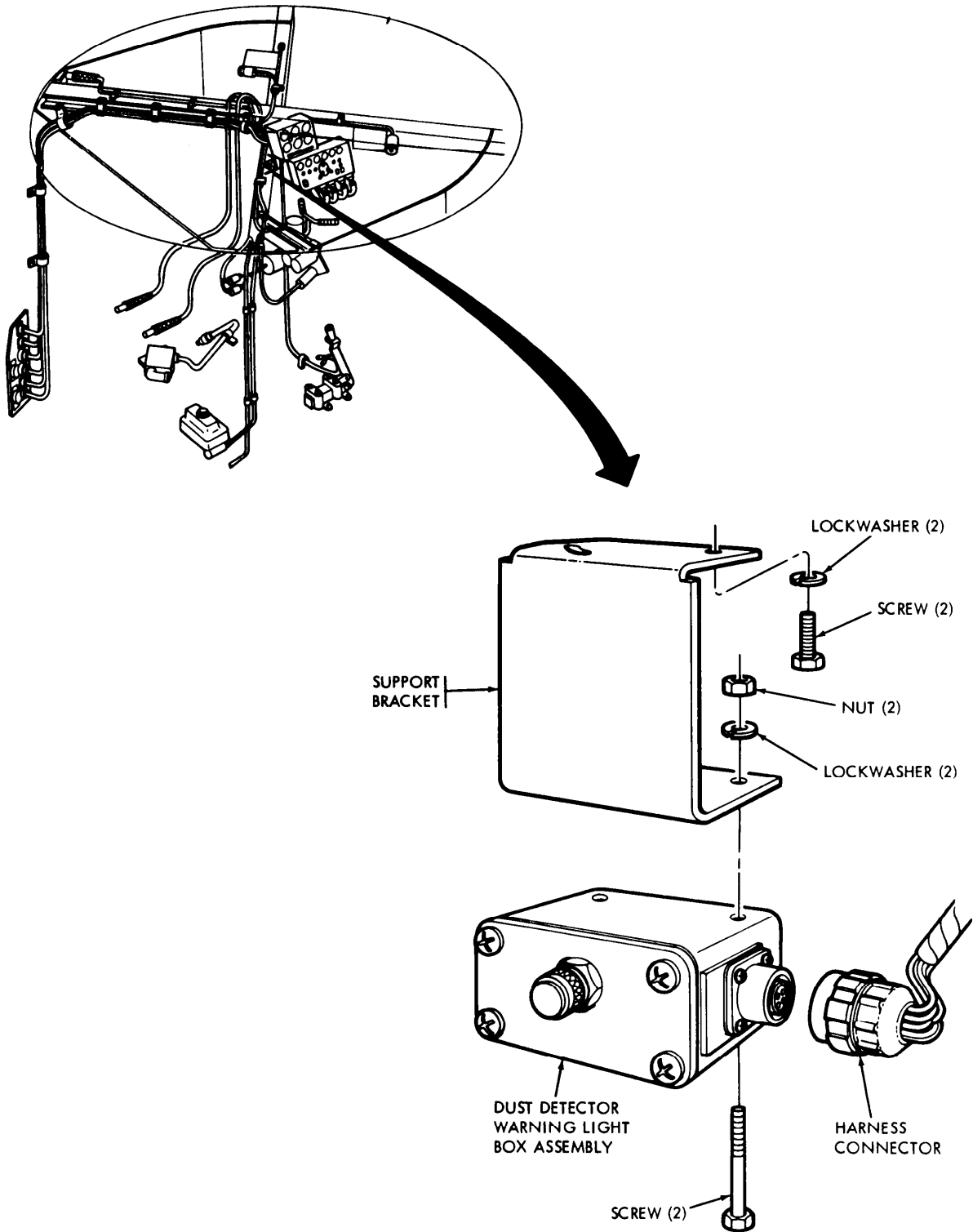


Figure 6-26. Dust detector warning light box assembly replacement (M48A5 AVLB, M60A1 AVLB).

j. Dust Detector Operational Test (Fig. 6-27).

NOTE

Operational test may be performed with powerplant out of vehicle if ground hop kit has starter cable modified to accommodate improved clean air system. If powerplant is out of vehicle, rig for powerplant test run with engine air cleaner (ground hop kit) (TM 20-1).

NOTE

Operational test is the same for both right and left sides.

- (1) Open top deck grille doors.
- (2) Remove dust and dirt from filter strip cover and compressor housing.
- (3) Loosen three captive screws securing filter strip cover to compressor housing, but do not remove cover.
- (4) Insert 1 inch wide strip of non-porous material (plastic, celluloid, etc.) over filter strip.
- (5) Tighten three captive screws.

WARNING

Make sure area around vehicle is clear of personnel and equipment before performing step (6).

- (6) Start engine. Apply vehicle brakes. Put transmission lever in high gear. Operate engine at 1800-1900 rpm for no more than 30 seconds. Observe powerplant and dust detector warning lamp.
 - (a) If powerplant and dust detector warning lamps light, system is operational; go to step (7).
 - (b) If powerplant and dust detector warning lamps do not light, check to see if dust detector switch tripped. A red plunger visible through plastic cover on switch indicates switch has tripped. If switch tripped, go to Troubleshooting Malfunction 10. If detector switch did not trip, repeat step 6 to verify. If switch still does not trip, replace dust detector switch (para. 6-17b).
- (7) Stop engine.
- (8) Loosen three captive screws securing filter strip cover to housing and remove non-porous material from filter strip and cover.
- (9) Tighten three captive screws.
- (10) Press plunger to reset pressure switch.
- (11) Close top deck grille doors.

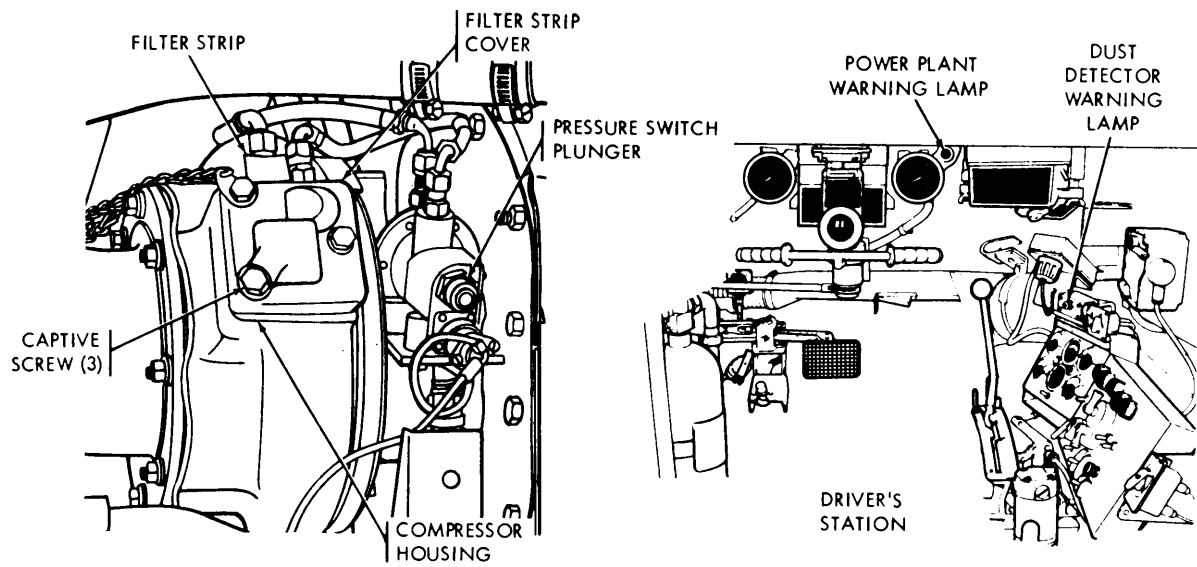


Figure 6-27. Dust detector operational test.

APPENDIX A
REFERENCES

TECHNICAL BULLETIN

TB 43-0211

Army Oil Analysis Program (AOAP) Users Guide for Nonaeronautical Equipment.

TECHNICAL MANUALS

TM 5-5420-200-12

Operator and Organizational Maintenance Manual: Launcher, M48A2 Tank Chassis, Transporting for 63 Ft Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (Unit Rig and Equipment Model AVL 48A2) (NSN 5420-00-542-3052).

TM 5-5420-200-20P

Organizational Maintenance Repair Parts and Special Tools List: Launcher M48A2 Tank Chassis, Transporting for 63 Ft Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (Unit Rig and Equipment Model AVL 48A2) (NSN 5420-00-542-3052).

TM 5-5420-200-34

Direct Support and General Support Maintenance Manual: Launcher, M48A2 Tank Chassis, Transporting for 63 Ft Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (Unit Rig and Equipment Model AVL 48A2) (NSN 5420-00-542-3052).

TM 5-5420-200-34P

Direct Support and General Support Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts): Launcher, M48A2 Tank Chassis, Transporting for 63 Ft Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (Unit Rig and Equipment Model AVL 48A2) (NSN 5420-00-542-3052).

TM 5-5420-202-10

Operator's Manual: Launcher, AVLB, M60A1 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-00-889-2020).

TM 5-5420-202-20

Organizational Maintenance Manual: Launcher M60A1 Tank Chassis, Transporting: for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-00-889-2020).

TM 5-5420-202-20P

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TM 5-5420-202-34

Direct Support and General Support Maintenance Manual: Launcher, M60A1 Tank Chassis, Transporting: for Bridge, Armored Vehicle Launched, Scissoring, Type, Class 60 (NSN 5420-00-889-2020).

TM 5-5420-202-34P

Direct Support and General Support Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools): Launcher, M60A1 Tank Chassis Transporting: for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-00-889-2020).

TM 5-5420-226-10

Operator's Manual for Launcher and 48A5 Tank Chassis, Transporting for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-01-076-6096).

TM 5-5420-226-20 Series

Organizational Maintenance for M48A5 Tank Chassis, Transporting: for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-01-076-6096).

TM 5-5420-226-34

Direct Support and General Support Maintenance M48A5 Tank Chassis, Transporting: for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-01-076-6096).

TM 5-5420-226-20-P

Organizational Maintenance Repair Parts and Special Tools List: M48A5 Tank Chassis, Transporting: for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-01-076-6096).

TM 5-5420-226-34P

Direct Support and General Support Repair Parts and Special Tools List: M48A5 Tank Chassis, Transporting: for Bridge, Armored Vehicle Launched, Scissoring Type, Class 60 (NSN 5420-01-076-6096).

TM 9-2300-378-20P/1

Organizational Maintenance Repair Parts and Special Tools List for Hull: Tank Combat: Full-Tracked, 152-MM Gun/Launcher, M60A2 (M60A1E2) W/E (NSN 2350-00-930-3590), 105-MM Gun, M60A1 W/E (NSN 2350-00-756-8497), M60 W/E (NSN 2350-00-678-5773); 90-MM Gun, M48A3 W/E (NSN 2350-00-895-9154) and Vehicle, Combat Engineer: Full Tracked, M728 W/E (NSN 2350-00-795-1797).

TM 9-2300-378-35/1

Direct Support and General Support Maintenance Manual for Tank, Combat: Full-Tracked, 152-MM Gun Launcher, M60A2 W/E (NSN 2350-00-930-3590) (Hull, Suspension and Final Drive Only) and Direct Support, General Support and Depot Maintenance Manual for 105-MM Gun, M60A1 W/E (NSN 2350-00-756-8497), 105-MM Gun, M60A1 W/E (NSN 2350-00-756-8497), 105-MM Gun, M60 W/E (NSN 2350-00-678-5773) and Vehicle, Combat Engineer: Full-Tracked, M728 W/E (NSN 2350-00-795-1797), Hull, Suspension, Final Drive, Slipping Assembly, Turret, and Miscellaneous Components.

TM 9-2300-378-35P/1-1

Direct Support, General Support and Depot Maintenance Repair Parts and Special Tools List for Hull; Tank, Combat: Full-Tracked, 152-MM Gun Launcher, M60A2 (M60A1E2) W/E (NSN 2350-00-930-3590); 105-MM Gun, M60A1 W/E (NSN 2350-00-795-1797) and 90-MM Gun, M48A3 W/E (NSN 2350-00-895-9154).

TM 9-2300-378-35P/1-2

Direct Support, General Support and Depot Maintenance Repair Parts and Special Tools List for Hull: Tank Combat: Full-Tracked, 152-MM Gun/Launcher, M60A2 (M60A1E2) W/E (NSN 2350-00-930-3590), 105-MM Gun, M60A1 W/E (2350-00-756-8497), M60 W/E (NSN 2350-00-1678-5773) and 90-MM Gun, M48A3 W/E (NSN 2350-00-895-9154) and Vehicle, Combat Engineer: Full-Tracked, M728 W/E (NSN 2350-00-795-1797).

TM 9-2350-215-10 Series

Operators Manual(s): Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (NSN 2350-00-756-8497) and M60A1/AOS (NSN 2350-01-058-9487).

TM 9-2350-215-20-1 Series

Organizational Maintenance Manual for Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (NSN 2350-00-756-8497) (Hull) and M60A1/AOS (NSN 2350-01-058-9487) (Hull).

TM 9-2350-215-34-1

Direct Support and General Support Maintenance Manual for Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (NSN 2350-00-756-8497) Hull and M60A1/AOS (NSN 2350-01-058-9487) Hull.

TM 9-2350-222-20-1 Series

Organizational Maintenance for Combat Engineer Vehicle, Full Tracked: M728, (NSN 2350-00-795-1797) (Hull).

TM 9-2350-222-20P-1

Organizational Maintenance Repair Parts and Special Tools List Combat Engineer Vehicle, Full Tracked: M728, (NSN 2350-00-795-1797) (Hull).

TM 9-2350-222-34-1

Direct Support and General Support Maintenance Manual for Vehicle, Combat Engineer, Full-Tracked: M728 (NSN 2350-00-795-1797) (Hull).

TM 9-2350-222-34P-1

Direct Support and General Support Repair Parts and Special Tools List: Vehicle, Combat Engineer, Full-Tracked: M728 (NSN 2350-00-795-1797) (Hull).

TM 9-2350-253-10

Operator's Manual for Tank, Combat, Full-Tracked, 105-MM Gun, M60A3 (NSN 2350-00-148-6548) and TTS (Tank Thermal Sight) (NSN 2350-01-061-2306).

TM 9-2350-253-20-1

Organizational Maintenance Manual for Tank, Combat, Full-Tracked, 105-MM Gun, M60A3 (NSN 2350-00-148-6548) and (NSN 2350-01-061-2306) TTS (Tank Thermal Sight) Hull.

TM 9-2350-253-20P-1

Organizational Maintenance Repair Parts and Special Tools List for Tank, Combat, Full-Tracked: 105-MM Gun, M60A3 (NSN 2350-00-148-6548) and (NSN 2350-01-061 -2306) TTS (Tank Thermal Sight) Hull.

TM 9-2350-253-34-1

Direct Support and General Support Maintenance Manual for Tank, Combat, Full-Tracked: 105-MM Gun, M60A3 (NSN 2350-00-148-6548) and (NSN 2350-01-061-2306) TTS (Tank Thermal Sight) Hull.

TM 9-2350-253-34P-1

Direct Support and General Support Maintenance Repair Parts and Special Tools (Including Depot Maintenance Repair Parts and Special Tools) for Tank, 105-MM Gun, M60A3 (NSN 2350-00-148-6548) and Full-Tracked (NSN 2350-01-061-2306) TTS (Tank Thermal Sight) Hull.

TM 9-2350-257-10 Series

Operators Manual(s) for Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (Rise) (NSN 2350-00-116-9765) and M60A1 (Rise Passive) (NSN 2350-01-059-1503).

TM 9-2350-257-20-1 Series

Organizational Maintenance Manual(s) for Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (Rise) (NSN 2350-00-116-9765) and M60A1 (Rise Passive) (NSN 2350-01-059-1503) (Hull).

TM 9-2350-257-20P-1

Organizational Maintenance Repair Parts and Special Tools List: Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (Rise) W/E (NSN 2350-00-116-9765) Hull.

TM 9-2350-257-34-1

Direct Support and General Support Maintenance Manual for Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 Rise (NSN 2350-00-116-9765) and M60A1 (Rise Passive) (NSN 2350-01-059-1503) (Hull).

TM 9-2350-257-34P-1

Direct Support and General Support Maintenance Repair Parts and Special Tools. List (Including Depot Maintenance Repair Parts and Special Tools) for Tank, Combat, Full-Tracked: 105-MM Gun, M60A1 (Rise) W/E (NSN 2350-00-116-9765) (Hull/Automotive).

TM 9-2350-258-10

Operators Manual for Tank, Combat, Full-Tracked, 105-MM, M48A5 (NSN 2350-00-582-5595).

TM 9-2350-258-20-1

Organizational Maintenance Manual for Tank, Combat, Full-Tracked, 105-MM Gun, M48A5 (NSN 2350-00-582-5595).

TM 9-2350-258-20P-1

Organizational Maintenance Repair Parts and Special Tools Lists for Tank, Combat, Full-Tracked, 105-MM Gun, M48A5, (NSN 2350-00-582-5595) Hull.

TM 9-2350-258-34-1

Direct Support and General Support Maintenance Manual for Tank, Combat, Full-Tracked: 105-MM Gun, M48A5, (NSN 2350-00-582-5595) Hull.

TM 9-2350-258-34P-1

Direct Support and General Support Maintenance Repair Parts and Special Tools Lists (Including Depot Maintenance Repair Parts and Special Tools) for Tank, Combat, Full-Track: 105-MM Gun, M48A5 (NSN 2350-00-582-5595) Hull.

APPENDIX B
ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL
SUPPORT MAINTENANCE REPAIR PARTS AND
SPECIAL TOOLS LIST

Section I. Introduction

B-1. Scope.

This manual lists and authorizes spares and repair parts and other special support equipment required for performance of organizational, direct support, and general support maintenance of the M60A1AVLB, M48A5AVLB, M60A3 combat tank and the M728 combat engineer vehicle. It authorizes the requisitioning, issue, and disposition of spares and repair parts as indicated by the Source, Maintenance, and Recoverability (SMR) codes.

B-2. General.

This Repair Parts and Special Tools List is divided into the following sections:

a. Section II. Repair Parts List. A list of spares and repair parts authorized by this RPSTL for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending alphanumeric sequence, with the parts in each group listed in ascending figure and item number sequence. Bulk materials are listed in NSN sequence.

b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized by this RPSTL for the performance of maintenance.

c. Section IV. National Stock Number and Part Number Index. list, in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

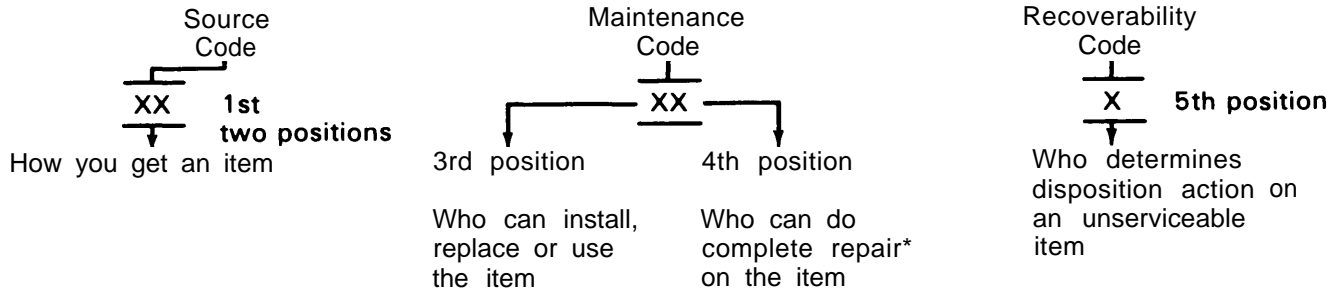
B-3. Explanation of Columns.

a. Illustration (Column (1)). This column is divided as follows:

(1) *((a) FIG NO.) Figure Number.* Indicates the figure number illustrating an exploded view of a functional group.

(2) *((b) ITEM NO.).* Indicates the number used to identify items called out in the illustration.

b. **SMR CODE (Column (2)).** The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions, as shown in the following breakout:



* Complete Repair: Maintenance capacity, capability, and authority to perform all the corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(1) **Source Code.** The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Source codes are always the first two positions of the SMR code. Explanations of source codes follow:

| Code | Explanation |
|---|---|
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> PA PB PC PD PE PF PG </div> | Stocked items; use the applicable NSN to request/requisition items with these source codes. They are authorized to the category indicated by the code entered in the 3rd position of the SMR code. |
| ----- | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> KD KF KB </div> | Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the 3rd position of the SMR code. The complete kit must be requisitioned and applied. |
| ----- | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> MO- (Made at org) MF - (Made at DS) MH- (Made at GS) MD- (Made at Depot) </div> | Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by NSN in the Description column and listed in the Bulk Material group in the repair parts list in this manual. If the item is authorized to you by the 3rd position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance. |

| Code | Explanation |
|---|--|
| AO - (Assembled by org) | Items with these codes are not to be requested/requisitioned individually. The parts that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the 3rd position code of the SMR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category, order the item from the higher category of maintenance. |
| AF - (Assembled by DS) | |
| AH - (Assembled by GS) | |
| AD - (Assembled by Depot) | |
| XA - Do not requisition an "XA"-coded item. Order its next higher assembly. (Also refer to the NOTE below.) | |
| XB - If an "XB" item is not available from salvage, order it using the FSCM and part number given. | |
| XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number. | |
| XD - Item is not stocked. Order an "XD"-coded item through normal supply channels using the FSCM and part number given, if no NSN is available. | |

NOTE: Cannibalization or controlled exchange, when authorized, may be used as source of supply for items with the above source codes, except for those source coded "XA."

(2) *Maintenance Code.* Maintenance codes tell you the category(s) of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR Code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

| Code | Application/Explanation |
|------|---|
| C | -Crew or operator maintenance done within organizational maintenance. |
| O | -Organizational category can remove, replace, and use the item. |
| F | -Direct support category can remove, replace, and use the item. |
| H | -General support category can remove, replace, and use the item. |
| L | -Specialized repair activity can remove, replace, and use the item. |
| D | -Depot category can remove, replace, and use the item. |

(b) The maintenance code entered in the fourth position tells you whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair, (i.e., perform all authorized repair functions). (NOTE: Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.) This position will contain one of the following maintenance codes.

| Code | Application/Explanation |
|------|--|
| O | -Organizational is the lowest category that can do complete repair of the item. |
| F | -Direct support is the lowest category that can do complete repair of the item. |
| H | -General support is the lowest category that can do complete repair of the item. |
| L | -Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item. |
| D | -Depot is the lowest category that can do complete repair of the item. |
| Z | -Nonreparable. No repair is authorized. |
| B | -No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item.) However, the item may be reconditioned by adjusting, lubricating, etc., at the user level. |

(3) *Recoverability Code.* Recoverability codes are assigned to items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the SMR Code as follows:

| Recoverability Codes | Definition |
|----------------------|---|
| Z | -Nonreparable item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in 3rd position of SMR Code. |
| O | -Reparable item. When uneconomically repairable, condemn and dispose of the item at organizational category. |
| F | -Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support category. |

Recoverability

Definition

- H -Reparable item. When uneconomically reparable, condemn and dispose of the item at the general support category.
- D -Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
- L -Reparable item. Condemnation and disposal not authorized below specialized repair activity.
- A -Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. National Stock Number (Column (3)). Lists the National stock number (NSN) assigned to the item. Use the NSN for requests/requisitions.

d. FSCM (Column (4)). The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

e. Part Number (Column (5)). Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements to identify an item or range of items.

NOTE: When you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered, but go ahead and use or furnish it as the replacement part.

f. Description (Column (6)). This column includes the following information:

- (1) The Federal item name and, when required, a minimum description to identify the item.
- (2) Not Applicable.
- (3) Items that are included in kits and sets are listed below the name of the kit or set.
- (4) Spare/repair parts that make up an assembled item are listed immediately following the assembled item line entry.
- (5) NSN's for bulk materials are referenced in the description column in the line item entry for the item to be manufactured/fabricated.
- (6) Not Applicable.

(7) Not Applicable.

(8) In the Special Tools List section, the basis of issue (BOI) appears as the last line(s) in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased proportionately.

g. U/M (Column (7)). The Unit of Measure (U/M) indicates the measure (e.g., foot, gallon, pound) or count (e.g., each, dozen, gross) of a listed item. A two-character alpha code (e.g., FT, GL, LB, EA, DZ, GR) appears in this column to indicate the measure or count. If the U/M code appearing in this column differs from the Unit of Issue (U/I) code listed in the Army Master Data File (AMDF), request the lowest U/I that will satisfy your needs.

h. QTY INC IN UNIT (Column (8)). Quantity Incorporated in Unit (QTY INC IN UNIT) indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable (e.g., shims, spacers).

B-4. Special Information.

a. Not Applicable.

b. Bulk materials required to manufacture items are listed in the Bulk Material Group of this manual. NSN's for bulk materials are also referenced in the description column of the line entry for the item to be manufactured/fabricated. Detailed manufacturing instructions for items source coded to be manufactured or fabricated are found in TM9-2350-253-20, TM9-2350-253-34, TM9-2350-222-20, TM9-2350-222-34, TM5-5420-226-20, TM5-5420-226-34, TM5-5420-202-20, and TM5-5420-202-34.

c. Detailed assembly instructions for items source coded to be assembled from component spare/repair parts are found in TM9-2350-253-20, TM9-2350-253-34, TM9-2350-222-20, TM9-2350-222-34, TM5-5420-226-20, TM5-5420-226-34, TM5-5420-202-20, and TM5-5420-202-34. Items that make up the assembly are listed immediately following the assembled item entry.

d. Line item entries for repair kits and sets appear as the last entries in the repair parts listing for the figure in which their parts are listed as repair parts.

e. Not Applicable.

f. Not Applicable.

g. Not Applicable.

B-5. How to Locate Repair Parts*a. When National Stock Number or Part Number is Not Known:*

(1) *First.* Using the table of contents, determine the functional group or subfunctional group to which the item belongs. This is necessary since figures are prepared for functional groups and subfunctional groups, and listings are divided into the same groups.

(2) *Second.* Find the figure covering the functional group or subfunctional group to which the item belongs.

(3) *Third.* Identify the item on the figure and note the item number of the item.

(4) *Fourth.* Refer to the Repair Parts List for the figure to find the line item entry for the item number noted on the figure.

b. When National Stock Number or Part Number is Known.

(1) *First.* Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. The NSN index is in National Item Identification Number (NIIN)* sequence. The part numbers in the Part Number index are listed in ascending alphanumeric sequence. Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

*The NIIN consists of the last 9 digits of the NSN (i.e., $\frac{\text{NSN}}{\text{NIIN}}$ 5305-01-674-1467).

(2) *Second.* After finding the figure and item number, verify that the item is the one you are looking for, then locate the item number in the repair parts list for the figure.

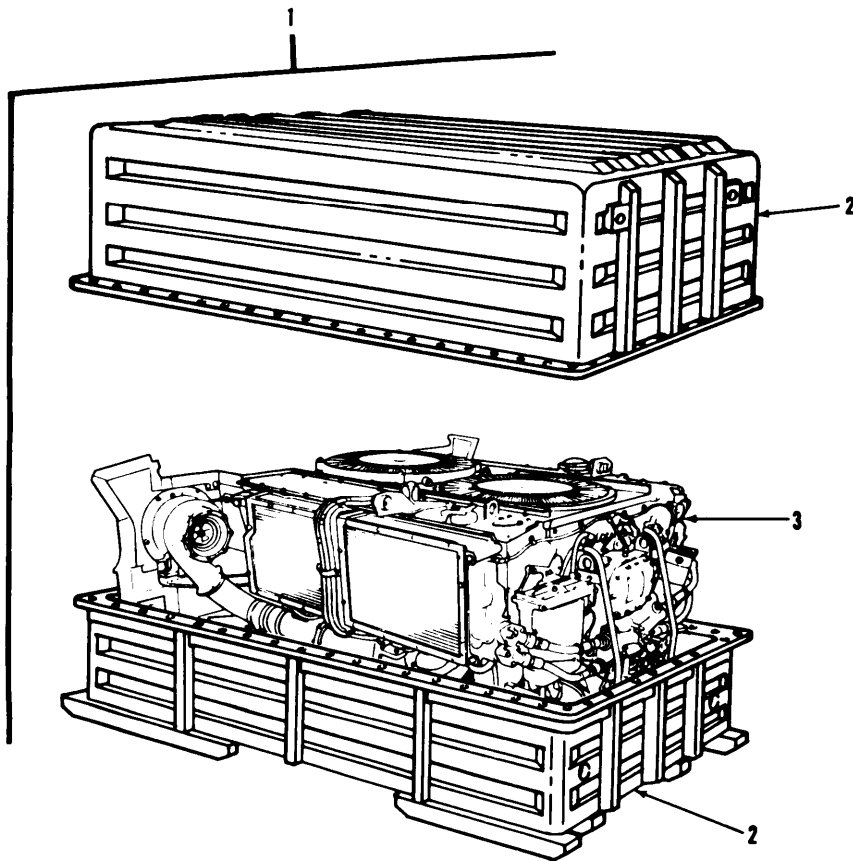


FIGURE B-1. DIESEL ENGINE MODELS 2CA, 2DA, AND SHIPPING CONTAINER.

Section II. Repair Parts List

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 01 ENGINE | | |
| | | | | | | GROUP 0100: ENGINE ASSEMBLY-DIESEL ENGINE MODEL 2CA, MODEL 2DA, AND SHIPPING CONTAINER | | |
| B-1 | 1 | PAFDL | 2815-01-149-1313 | 19207 | 5705074 | ENGINE AND CONTAINER..... | EA | 1 |
| B-1 | 2 | PAFDL | 8145-00-856-8147 | 19207 | 10912269 | CONTAINER SHIPPING & STORAGE..... | EA | 1 |
| B-1 | 3 | PAFDL | 2815-01-149-1353 | 19207 | 12314611 | ENGINE (2CA ENGINE)..... | EA | 1 |
| B-1 | 3 | PAFDL | | 19207 | 12314641 | ENGINE (2DA ENGINE)..... | EA | 1 |

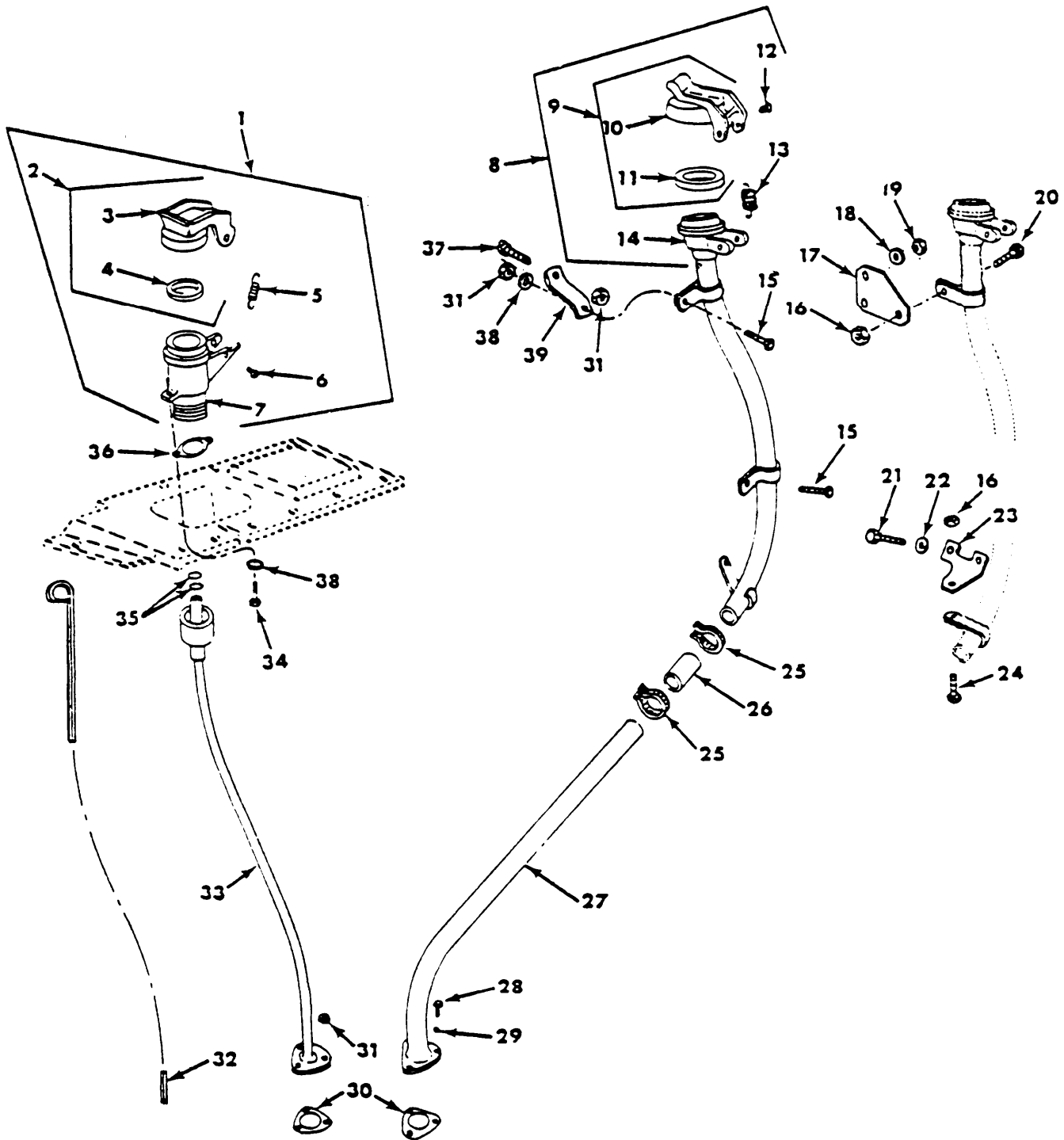


FIGURE B-2. OIL GAGE ROD TUBE, OIL FILLER TUBE, AND RELATED PARTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 0106: ENGINE LUBRICATION SYSTEM- OIL GAGE ROD TUBE, OIL FILLER TUBE, AND RELATED PARTS | | | |
| B-2 | 1 | PFOZZ | 2815-00-406-4621 | 19207 | 10935623 | CAP, FILLER NECK..... | | EA | 1 |
| B-2 | 2 | PFOZZ | 2990-00-897-2849 | 19207 | 8761109 | CAP ASSEMBLY..... | | EA | 1 |
| B-2 | 3 | XAOZZ | | 19207 | 8717157 | CAP..... | | EA | 1 |
| B-2 | 4 | PAOZZ | 5330-00-599-0942 | 19207 | 8717158 | PACKING, PREFORMED..... | | EA | 1 |
| B-2 | 5 | PFOZZ | 5360-00-410-5836 | 19207 | 10935614 | SPRING, HELICAL, EXTENSION..... | | EA | 1 |
| B-2 | 6 | PAOZZ | 5305-00-206-3851 | 02978 | 550559 | SCREW, EXTERNALLY RELIEVED BODY..... | | EA | 2 |
| B-2 | 7 | XAOZZ | | 19207 | 10935619 | NECK..... | | EA | 1 |
| B-2 | 8 | PAOZZ | 2815-00-406-4615 | 19207 | 11641922 | FILLER NECK (USE WITH 2C AND 2D ENGINES)..... | | EA | 1 |
| B-2 | 8 | PAOZZ | 2815-01-145-8312 | 19207 | 12314593 | FILLER NECK (USE WITH 2CA AND 2DA ENGINES)..... | | EA | 1 |
| B-2 | 9 | PFOZZ | 2990-00-897-2849 | 19207 | 8761109 | CAP ASSEMBLY..... | | EA | 1 |
| B-2 | 10 | XAOZZ | | 19207 | 8717157 | CAP..... | | EA | 1 |
| B-2 | 11 | PAOZZ | 5330-00-599-0942 | 19207 | 8717158 | PACKING, PREFORMED..... | | EA | 1 |
| B-2 | 12 | PAOZZ | 5305-00-206-3851 | 02978 | 550559 | SCREW, EXTERNALLY RELIEVED BODY..... | | EA | 2 |
| B-2 | 13 | PFOZZ | 5360-00-410-5836 | 19207 | 10935614 | SPRING, HELICAL, EXTENSION..... | | EA | 1 |
| B-2 | 14 | XAOZZ | | 19207 | 11641923 | TUBE ASSEMBLY (USE WITH 2C AND 2D ENGINES)..... | | EA | 1 |
| B-2 | 14 | XAOZZ | | 19207 | 12314592 | TUBE ASSEMBLY (USE WITH 2CA AND 2DA ENGINES)..... | | EA | 1 |
| B-2 | 15 | PAOZZ | 5306-00-050-1238 | 96906 | MS90727-32 | BOLT, MACHINE..... | | EA | 2 |
| B-2 | 25 | PAOZZ | 4730-00-909-8627 | 96906 | MS35842-13 | CLAMP, HOSE..... | | EA | 2 |
| B-2 | 26 | MOZZ | | 19207 | 8357967-4 | HOSE, NONMETALLIC (MAKE FROM NSN 4720-00-278-1110)..... | | EA | 1 |
| B-2 | 27 | PFOZZ | 4710-00-192-9436 | 19207 | 11641927 | TUBE ASSEMBLY, METAL..... | | EA | 1 |
| B-2 | 28 | PAOZZ | 5305-00-051-4076 | 96906 | MS90727-34 | SCREW, CAP, HEXAGON..... | | EA | 3 |
| B-2 | 29 | PAOZZ | 5330-00-530-2772 | 25184 | 110 5-16 | PACKING WITH RETAINER..... | | EA | 3 |
| B-2 | 30 | PAOZZ | 5330-00-679-4961 | 19207 | 8682523 | GASKET..... | | EA | 2 |
| B-2 | 31 | PAOZZ | 5310-00-088-0553 | 96906 | MS21044N5 | NUT, SELF-LOCKING..... | | EA | 2 |
| B-2 | 32 | PFOZZ | 6680-00-423-4051 | 19207 | 11684006 | GAGE, ROD, LIQUID LEVEL..... | | EA | 1 |
| B-2 | 33 | PFOZZ | 2815-00-399-5302 | 19207 | 11684018 | TUBE, OIL LEVEL GAGE ROD..... | | EA | 1 |
| B-2 | 34 | PAOZZ | 5306-00-225-9086 | 96906 | MS90726-31 | BOLT, MACHINE..... | | EA | 2 |
| B-2 | 35 | PAOZZ | 5330-01-013-7132 | 96906 | MS9388-327 | PACKING, PREFORMED..... | | EA | 2 |
| B-2 | 36 | PAOZZ | 5330-00-410-9803 | 19207 | 10935621 | GASKET..... | | EA | 1 |
| B-2 | 37 | PAOZZ | 5306-00-182-2023 | 88044 | AN5H4A | BOLT, MACHINE..... | | EA | 1 |
| B-2 | 38 | PAOZZ | 5310-00-407-9566 | 19207 | 7410218 | WASHER, LOCK..... | | EA | 1 |
| B-2 | 39 | PFOZZ | 5340-01-145-8307 | 19207 | 12314591 | BRACKET, DOUBLE ANGLE (USE WITH 2CA AND 2DA ENGINES)..... | | EA | 1 |
| B-2 | 39 | PFOZZ | 5340-00-409-2055 | 19207 | 11641928 | BRACKET, DOUBLE ANGLE (USE WITH 2C AND 2D ENGINES)..... | | EA | 1 |

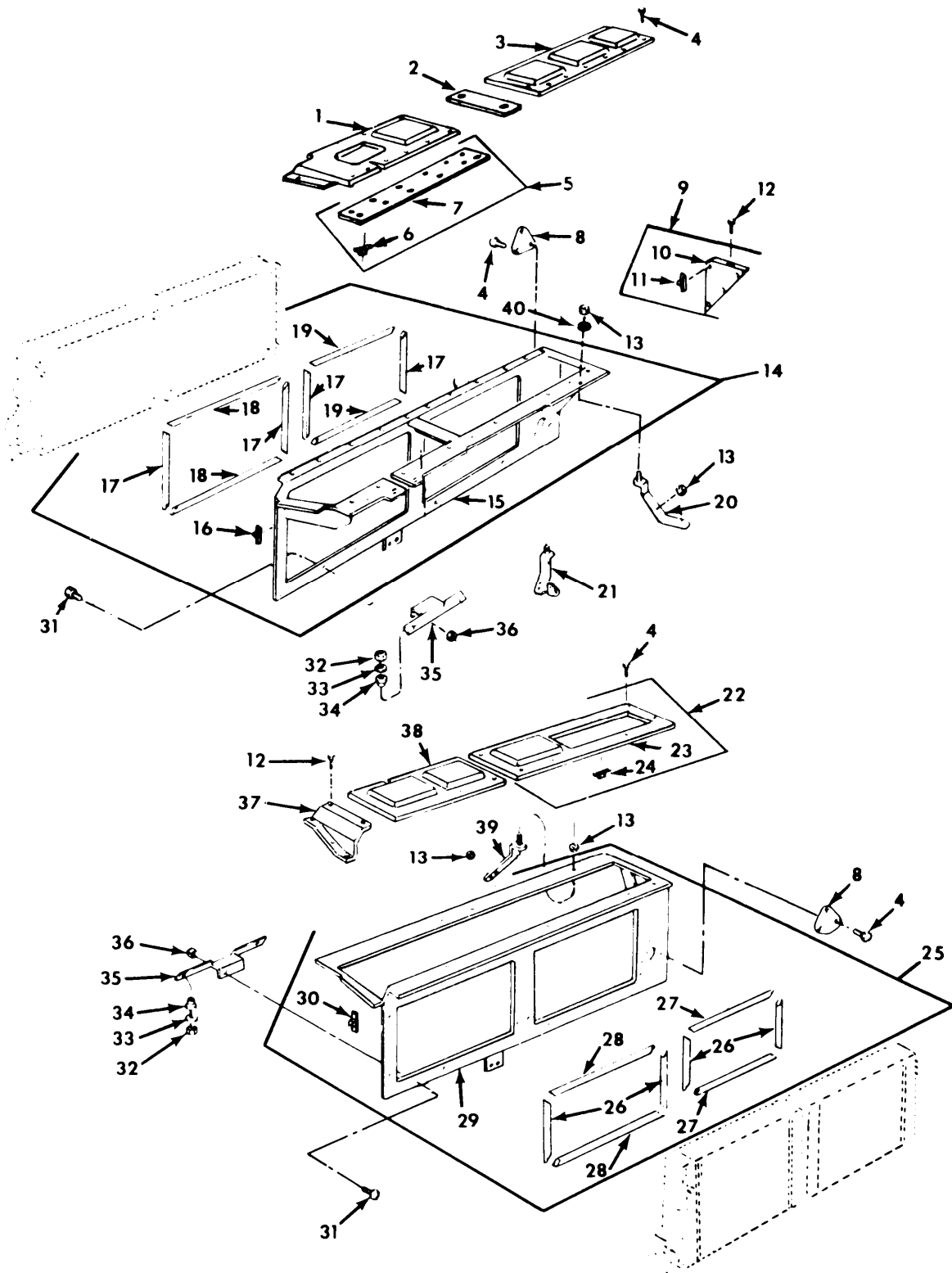


FIGURE B-3. OIL COOLER FRAMES, SHROUDS, AND RELATED PARTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0106: ENGINE LUBRICATION SYSTEM-OIL COOLER FRAMES, SHROUDS, AND RELATED PARTS | | |
| B-3 | 1 | PAOZZ | 2815-00-394-9706 | 19207 | 11684017 | COVER, ACCESS (LEFT BANK)..... | EA | 1 |
| B-3 | 3 | PAOZZ | 2815-00-399-5301 | 19207 | 11683939 | COVER, ACCESS (LEFT BANK)..... | EA | 1 |
| B-3 | 4 | PAOZZ | 5306-00-741-4584 | 19207 | 7414584 | BOLT, ASSEMBLED WASHER (USE WITH 2C AND 2D ENGINES)..... | EA | 42 |
| B-3 | 4 | PAOZZ | 5306-00-741-4584 | 19207 | 7414584 | BOLT, ASSEMBLED WASHER (USE WITH 2CA AND 2DA ENGINES)... | EA | 39 |
| B-3 | 8 | PFOZZ | 2815-00-410-1045 | 19207 | 11684132 | COVER, ACCESS (LEFT AND RIGHT BANKS)..... | EA | 2 |
| B-3 | 9 | PAOFF | 2815-00-394-9700 | 19207 | 11683985 | COVER, ACCESS (LEFT BANK)..... | EA | 1 |
| B-3 | 10 | XAOZZ | | 19207 | 11683985-1 | COVER..... | EA | 1 |
| B-3 | 11 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE (LEFT BANK)..... | EA | 5 |
| B-3 | 12 | PAOZZ | 5305-00-019-2417 | 21450 | 192417 | BOLT, ASSEMBLED WASHER (LEFT BANK)..... | EA | 5 |
| B-3 | 13 | PAOZZ | 5310-00-088-0553 | 96906 | MS21044N5 | NUT, SELF-LOCKING, HEXAGON..... | EA | 36 |
| B-3 | 14 | PFOFF | 2930-00-392-9515 | 19207 | 11684041 | FRAME, ENGINE OIL COOLER SUPPORT ASSEMBLY (LEFT BANK)... | EA | 1 |
| B-3 | 15 | XAOZZ | | 19207 | 11684041-1 | FRAME..... | EA | 1 |
| B-3 | 16 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE..... | EA | 38 |
| B-3 | 17 | MOOZZ | | 19207 | 11684079-1 | RUBBER, STRIP (MAKE FROM NSN 9320-00-576-4981)..... | EA | 4 |
| B-3 | 18 | MOOZZ | | 19207 | 11684079-3 | RUBBER, STRIP (MAKE FROM NSN 9320-00-576-4981)..... | EA | 2 |
| B-3 | 19 | MOOZZ | | 19207 | 11684079-2 | RUBBER, STRIP (MAKE FROM NSN 9320-00-576-4981)..... | EA | 2 |
| B-3 | 20 | PFOZZ | 2930-01-005-1550 | 19207 | 11684234 | BRACKET, COOLING FAN (LEFT AND RIGHT BANKS)..... | EA | 2 |
| B-3 | 21 | PFOZZ | 2930-01-038-8296 | 19207 | 12254292 | BRACKET, COOLING FAN (LEFT BANK)..... | EA | 1 |
| B-3 | 22 | PAOFF | 5340-01-010-8946 | 19207 | 11684246 | COVER, ACCESS (RIGHT BANK)..... | EA | 1 |
| B-3 | 23 | XAOZZ | | 19207 | 11684246-1 | COVER..... | EA | 1 |
| B-3 | 24 | PAFZZ | 5310-00-486-0412 | 19207 | 11684093-2 | NUT, PLAIN, PLATE (RIGHT BANK)..... | EA | 2 |
| B-3 | 25 | PFOFF | 2930-00-392-9547 | 19207 | 11684048 | FRAME, ENGINE OIL COOLER SUPPORT ASSEMBLY..... | EA | 1 |
| B-3 | 26 | MOOZZ | | 19207 | 11684079-1 | RUBBER, STRIP (MAKE FROM NSN 9320-00-576-4981)..... | EA | 4 |
| B-3 | 27 | MOOZZ | | 19207 | 11684079-2 | RUBBER, STRIP (MAKE FROM NSN 9320-00-576-4981)..... | EA | 2 |
| B-3 | 28 | MOOZZ | | 19207 | 11684079-3 | RUBBER, STRIP (MAKE FROM NSN 9320-00-576-4981)..... | EA | 2 |
| B-3 | 29 | XAOZZ | | 19207 | 11684048-1 | FRAME..... | EA | 1 |
| B-3 | 30 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE (RIGHT BANK)..... | EA | 40 |
| B-3 | 31 | PAOZZ | 5305-00-912-5113 | 96906 | MS51096-59 | SCREW, CAP, HEXAGON (LEFT AND RIGHT BANKS)..... | EA | 12 |
| B-3 | 32 | PAOZZ | 5310-00-274-9364 | 96906 | MS21045-7 | NUT, SELF-LOCKING, (LEFT AND RIGHT BANKS)..... | EA | 12 |
| B-3 | 33 | PAOZZ | 5365-00-486-0405 | 19207 | 11684106 | SPACER, SLEEVE (LEFT AND RIGHT BANKS)..... | EA | 12 |
| B-3 | 34 | PAOZZ | 5325-00-276-6096 | 88044 | AN931B9-13 | GROMMET, NONMETALLI (LEFT AND RIGHT BANKS)..... | EA | 12 |
| B-3 | 35 | PFOZZ | 2520-00-394-9713 | 19207 | 11683954 | SUPPORT, OIL COOLER (LEFT AND RIGHT BANKS)..... | EA | 6 |
| B-3 | 36 | PAOZZ | 5310-00-982-4908 | 96906 | MS21046-6 | NUT, SELF-LOCKING, (LEFT AND RIGHT BANKS)..... | EA | 12 |
| B-3 | 37 | PAOZZ | 2815-00-397-3313 | 19207 | 11683984 | COVER, ACCESS (RIGHT BANK)..... | EA | 1 |
| B-3 | 38 | PAOZZ | 2815-00-432-0056 | 19207 | 11683941 | COVER, ACCESS (RIGHT BANK)..... | EA | 1 |
| B-3 | 39 | PFOZZ | 2930-01-005-1549 | 19207 | 11682768 | BRACKET, COOLING FAN..... | EA | 9 |
| B-3 | 40 | PAOZZ | 5310-00-081-4219 | 29201 | 84001-1 | WASHER, FLAT..... | EA | 12 |

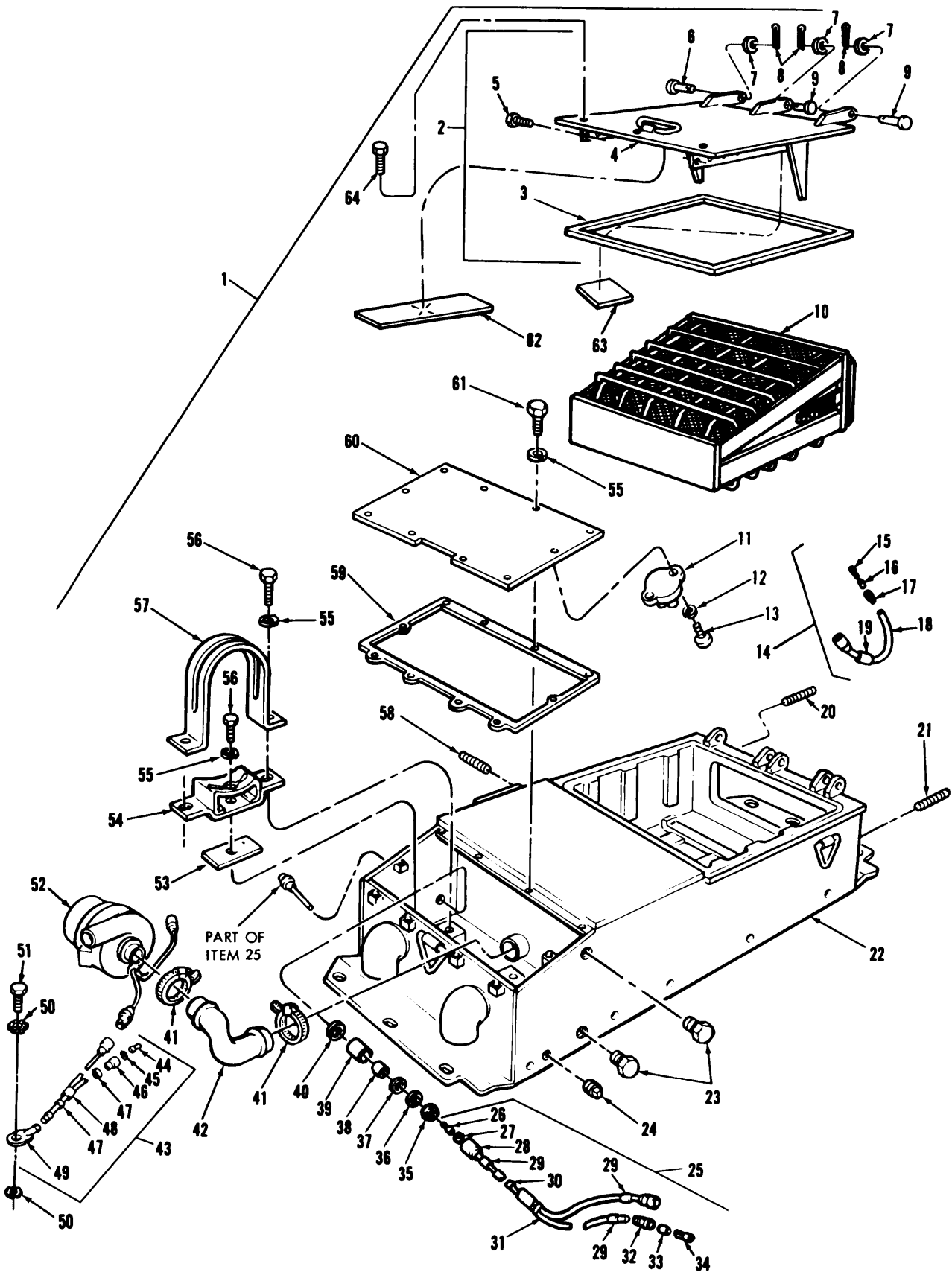


FIGURE B-4. ARMORED TOP LOADING AIR CLEANER AND RELATED PARTS (2C AND 2D ENGINES).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 03: FUEL SYSTEM | | |
| | | | | | | GROUP 0304: AIR CLEANER-ARMORED TOP LOADING AIR CLEANER AND RELATED PARTS (2C AND 2D ENGINES) | | |
| B-4 | 1 | PAODD | 2940-01-035-9827 | 19204 | 12251922-1 | AIR CLEANER, INTAKE ,LEFT..... | EA | 1 |
| B-4 | 1 | PAODD | 2940-01-035-9826 | 19204 | 12251922-2 | AIR CLEANER, INTAKE ,RIGHT..... | EA | 1 |
| B-4 | 2 | PAODD | 5340-01-016-4429 | 19207 | 12251910 | DOOR, ACCESS..... | EA | 1 |
| B-4 | 3 | PCOZZ | 5330-01-129-0642 | 19207 | 12304136 | GASKET..... | EA | 1 |
| B-4 | 4 | XADZZ | | 19207 | 12251908 | DOOR..... | EA | 1 |
| B-4 | 5 | PAOZZ | 5306-01-091-3384 | 19207 | 12290914 | BOLT, SELF-LOCKING PART OF KIT P/N 5705149..... | EA | 8 |
| B-4 | 6 | PAOZZ | 5315-00-903-7885 | 96906 | MS20392-7C55 | PIN, STRAIGHT, HEAD..... | EA | 1 |
| B-4 | 7 | PAOZZ | 5310-00-809-5998 | 96906 | MS27183-18 | WASHER, FLAT PART OF KIT P/N 5705149..... | EA | 3 |
| B-4 | 8 | PAOZZ | 5315-00-816-1794 | 96906 | MS24665-285 | PIN, COTTER PART OF KIT P/N 5705149..... | EA | 3 |
| B-4 | 9 | PAOZZ | 5315-00-778-9646 | 96906 | MS20392-7C81 | PIN, STRAIGHT, HEAD PART OF KIT P/N 5705149..... | EA | 2 |
| B-4 | 10 | PAOZZ | 2940-01-142-8260 | 19207 | 11669740 | FILTER..... | EA | 1 |
| B-4 | 11 | PAOZZ | 5925-00-026-4767 | 81349 | M13516/1-1 | CIRCUIT BREAKER..... | EA | 2 |
| B-4 | 12 | PAOZZ | 5310-00-045-4007 | 96906 | MS35338-41 | WASHER, LOCK..... | EA | 4 |
| B-4 | 13 | PAOZZ | 5305-00-889-3001 | 96906 | MS35206-231 | SCREW, MACHINE..... | EA | 4 |
| B-4 | 14 | PAOOO | 2590-00-606-2346 | 19207 | 7383632 | LEAD ASSEMBLY..... | EA | 2 |
| B-4 | 15 | PAOZZ | 2520-00-692-4879 | 19207 | 8338564 | TERMINAL ASSEMBLY..... | EA | 2 |
| B-4 | 16 | PAOZZ | 5970-00-833-8562 | 19207 | 8338562 | INSULATOR, BUSHING..... | EA | 2 |
| B-4 | 17 | PAOZZ | 5935-00-833-8561 | 19207 | 8338561 | CONNECTOR..... | EA | 2 |
| B-4 | 18 | MOOZZ | | 81349 | M13486/1-5 | WIRE, ELECTRICAL (MAKE FROM NSN 6145-00-152-6499)..... | FT | V |
| B-4 | 19 | PAOZZ | 9905-00-752-4649 | 81349 | M43436/1-1 | BAND, MARKER..... | EA | 1 |
| B-4 | 20 | PAOZZ | 5307-00-678-4760 | 19207 | 8762863 | STUD, PLAIN..... | EA | 2 |
| B-4 | 21 | PAOZZ | 5307-00-218-8179 | 19207 | 11659652 | STUD, PLAIN..... | EA | 2 |
| B-4 | 22 | XADDD | | 19207 | 12251911-1 | HOUSING, LEFT..... | EA | 1 |
| B-4 | 22 | XADDD | | 19207 | 12251911-2 | HOUSING, RIGHT..... | EA | 1 |
| B-4 | 23 | PAOZZ | 4730-00-678-4749 | 19207 | 10863625 | PLUG, PIPE PART OF KIT P/N 5705149..... | EA | 2 |
| B-4 | 24 | PAOZZ | 4730-00-580-6740 | 96906 | MS20913-3J | PLUG, PIPE PART OF KIT P/N 5705149..... | EA | 1 |
| B-4 | 25 | PAOOO | 2590-00-978-7335 | 19207 | 10940163 | WIRING HARNESS..... | EA | 1 |
| B-4 | 26 | PAOZZ | 5999-00-057-2929 | 96906 | MS27148-2 | CONTACT, ELECTRICAL..... | EA | 1 |
| B-4 | 27 | PAOZZ | 5310-00-833-8567 | 19207 | 8338567 | WASHER, SLOTTED..... | EA | 1 |
| B-4 | 28 | PAOZZ | 5935-00-572-9180 | 19207 | 8338566 | CONNECTOR..... | EA | 1 |
| B-4 | 29 | PAOZZ | 9905-00-752-4649 | 81349 | M43436/1-1 | BAND, MARKER..... | EA | 4 |
| B-4 | 30 | MOOZZ | | 80244 | 1711725-96 | INSULATION, SLEEVIN (MAKE FROM NSN 5970-00-284-8640)..... | FT | V |
| B-4 | 31 | MOOZZ | | 81349 | M13486/1-5 | WIRE, ELECTRICAL (MAKE FROM NSN 6145-00-152-6499)..... | FT | V |
| B-4 | 32 | PAOZZ | 5935-00-833-8561 | 19207 | 8338561 | CONNECTOR..... | EA | 2 |
| B-4 | 33 | PAOZZ | 5970-00-833-8562 | 19207 | 8338562 | INSULATOR, BUSHING..... | EA | 2 |
| B-4 | 34 | PAOZZ | 5940-00-399-6676 | 19207 | 8338564 | TERMINAL ASSEMBLY..... | EA | 2 |
| B-4 | 35 | PAOZZ | 5975-00-644-3682 | 19207 | 7056641 | NUT, COUPLING, ELEC..... | EA | 1 |
| B-4 | 36 | PAOZZ | 5310-00-705-7352 | 19207 | 7057352 | WASHER, SPRING, TENSION..... | EA | 1 |
| B-4 | 37 | PAOZZ | 5330-00-705-6661 | 19207 | 7056661 | RETAINER, PACKING..... | EA | 1 |
| B-4 | 38 | PAOZZ | 5365-00-772-2972 | 19207 | 7722972 | BUSHING, RUBBER..... | EA | 1 |
| B-4 | 39 | PAOZZ | 4730-00-678-4750 | 19207 | 8762871 | REDUCER, TUBE..... | EA | 1 |
| B-4 | 40 | PAOZZ | 5330-00-078-4714 | 19207 | 10933723 | GASKET..... | EA | 1 |
| B-4 | 41 | PAOZZ | 4730-00-908-3193 | 96906 | MS35842-12 | CLAMP..... | EA | 4 |
| B-4 | 42 | PAOZZ | 4720-01-022-6070 | 19207 | 12251907 | HOSE, PREFORMED..... | EA | 2 |
| B-4 | 43 | PAOOO | 2590-00-974-9216 | 19207 | 10863589 | LEAD ASSEMBLY..... | EA | 1 |
| B-4 | 44 | PAOZZ | 5999-00-057-2929 | 96906 | MS27148-2 | CONTACT, ELECTRICAL..... | EA | 2 |
| B-4 | 45 | PAOZZ | 5310-00-833-8567 | 19207 | 8338567 | WASHER, SLOTTED..... | EA | 2 |
| B-4 | 46 | PAOZZ | 5935-00-572-9180 | 19207 | 8338566 | CONNECTOR..... | EA | 2 |
| B-4 | 47 | PAOZZ | 9905-00-752-4649 | 81349 | M43436/1-1 | BAND, MARKER..... | EA | 4 |

CONTINUED NEXT PAGE

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 03: FUEL SYSTEM | | |
| | | | | | | GROUP 0304: AIR CLEANER-ARMORED TOP LOADING AIR CLEANER AND RELATED PARTS (2C AND 2D ENGINES) -CONTINUED | | |
| B-4 | 48 | MOOZZ | | 81349 | M13486/1-5 | WIRE, ELECTRICAL (MAKE FROM NSN 6145-00-152-6499)..... | | V |
| B-4 | 49 | PAOZZ | 5940-00-705-6709 | 19207 | 7056709 | TERMINAL, LUG..... | EA | 1 |
| B-4 | 50 | PAOZZ | 5310-00-209-0786 | 96906 | MS35335-33 | WASHER, LOCK..... | EA | 1 |
| B-4 | 51 | PAOZZ | 5305-00-068-0501 | 96906 | MS90725-5 | SCREW, CAP, HEX HEAD..... | EA | 1 |
| B-4 | 52 | PAOFF | 4140-00-016-2615 | 19207 | 10905010 | FAN, CENTRIFUGAL (FOR COMPONENT PARTS SEE GROUP 0304: AIR CLEANER CENTRIFUGAL FAN ASSEMBLY)..... | EA | 2 |
| B-4 | 53 | PAOZZ | 9320-01-017-2743 | 19207 | 12251898 | RUBBER STRIP..... | EA | 2 |
| B-4 | 54 | PAOZZ | 5340-01-028-5260 | 19207 | 12251912 | BRACKET, MOUNTING..... | EA | 2 |
| B-4 | 55 | PAOZZ | 5310-00-407-9566 | 96906 | MS35338-45 | WASHER, LOCK..... | EA | 16 |
| B-4 | 56 | PAOZZ | 5306-00-226-4824 | 96906 | MS90728-31 | SCREW, CAP, HEX HEAD..... | EA | 6 |
| B-4 | 57 | PAOZZ | 5340-01-016-4782 | 19207 | 12251905 | STRAP, RETAINING..... | EA | 2 |
| B-4 | 58 | PAOZZ | 5307-00-178-8859 | 19207 | 8762863-1 | STUD, PLAIN..... | EA | 10 |
| B-4 | 59 | PAOZZ | 5330-01-035-9825 | 19207 | 12251902 | GASKET..... | EA | 1 |
| B-4 | 60 | PBOZZ | 5340-01-031-0420 | 19207 | 12251904 | COVER, ACCESS..... | EA | 1 |
| B-4 | 61 | PAOZZ | 5306-00-225-8498 | 96906 | MS90725-33 | SCREW, CAP, HEX HEAD..... | EA | 10 |
| B-4 | 62 | PAOZZ | 7690-01-038-7440 | 19207 | 12252675 | MARKER, ID..... | EA | 1 |
| B-4 | 63 | PAOZZ | 9905-01-051-5289 | 19207 | 11659642-68 | PLATE, IDENT (USE WITH P/N 12251922-2)..... | EA | 1 |
| B-4 | 63 | PAOZZ | 9905-01-051-5290 | 19207 | 11659642-67 | PLATE, IDENT (USE WITH P/N 12251922-1)..... | EA | 1 |
| B-4 | 64 | PAOZZ | 5306-01-091-3384 | 19207 | 12290914 | BOLT, SELF-LOCKING..... | EA | 3 |
| B-4 | | PAOZZ | 4310-01-134-6587 | 19207 | 5705149 | KIT, AIR CLEANER..... | EA | 1 |
| B-4 | 5 | | | | | BOLT, SELF-LOCKING..... | EA | 1 |
| B-4 | 7 | | | | | WASHER, FLAT..... | EA | 1 |
| B-4 | 8 | | | | | PIN, COTTER..... | EA | 1 |
| B-4 | 9 | | | | | PIN, STRAIGHT, HEAD..... | EA | 1 |
| B-4 | 23 | | | | | PLUG, PIPE..... | EA | 1 |
| B-4 | 24 | | | | | PLUG, PIPE..... | EA | 1 |

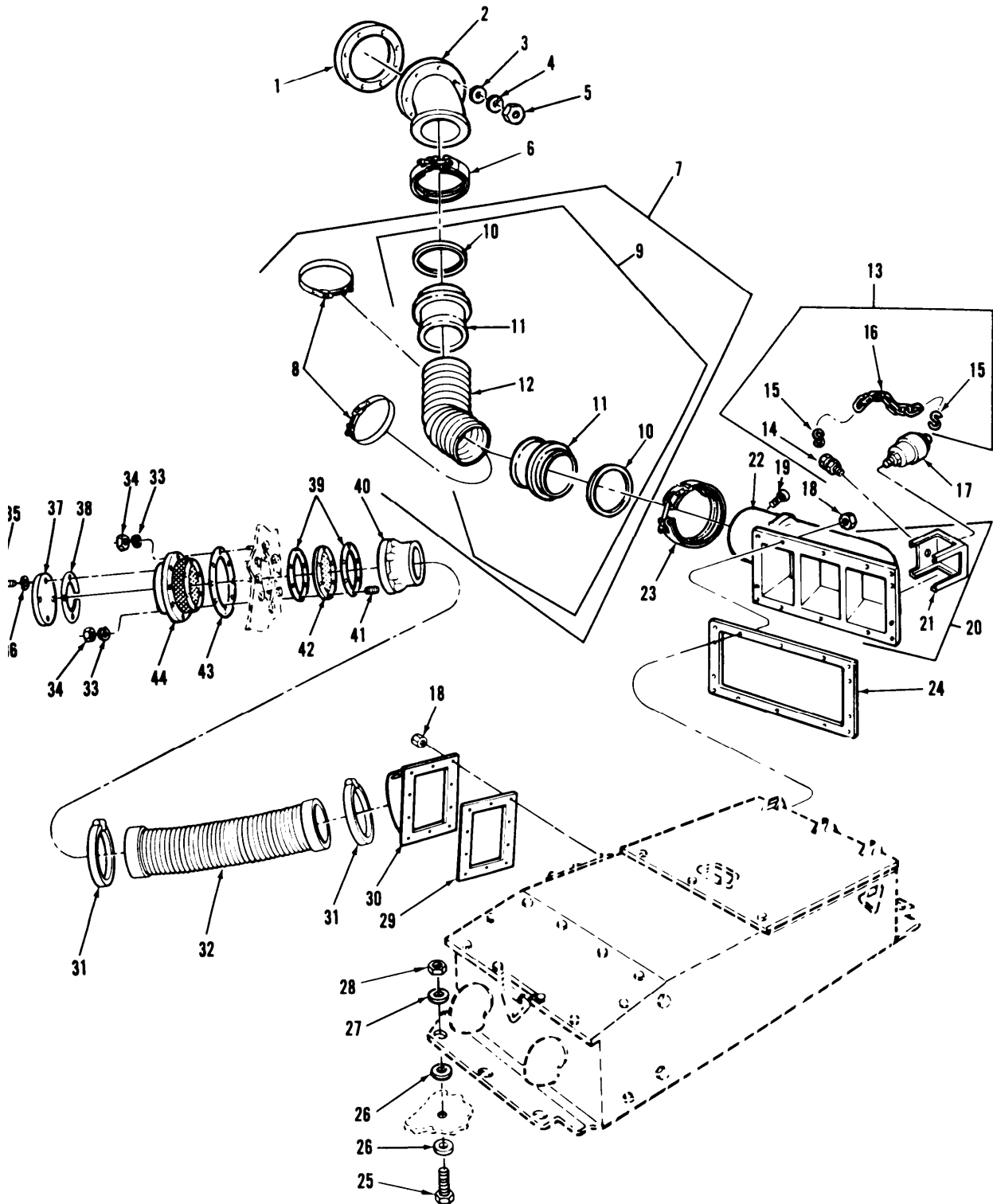


FIGURE B-5. AIR CLEANER HOSE ASSEMBLIES AND RELATED PARTS (2C AND 2D ENGINES).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 0304: AIR CLEANER-AIR CLEANER HOSE ASSEMBLY AND RELATED PARTS (2C AND 2D ENGINES) | | | |
| B-5 | 1 | PAOZZ | 5330-00-678-3488 | 19207 | 8762780 | GASKET..... | | EA | 2 |
| B-5 | 2 | PAOZZ | 2940-00-105-2805 | 19207 | 11608144-2 | ELBOW, AIR CLEANER ,RIGHT..... | | EA | 1 |
| B-5 | 2 | PAOZZ | 2940-00-105-2804 | 19207 | 11608144-1 | ELBOW, AIR CLEANER ,LEFT..... | | EA | 1 |
| B-5 | 3 | PAOZZ | 5310-00-081-4219 | 96906 | MS27183-12 | WASHER, FLAT..... | | EA | 16 |
| B-5 | 4 | PAOZZ | 5310-00-407-9566 | 96906 | MS35338-45 | WASHER, LOCK..... | | EA | 16 |
| B-5 | 5 | PAOZZ | 5310-00-880-7746 | 96906 | MS51968-5 | NUT, PLAIN, HEXAGON..... | | EA | 16 |
| B-5 | 6 | PAOZZ | 5340-00-678-6178 | 19207 | 8711310 | CLAMP ASSEMBLY..... | | EA | 2 |
| B-5 | 7 | PAOZZ | 4720-01-121-1542 | 19207 | 12271067 | HOSE, ASSEMBLY..... | | EA | 2 |
| B-5 | 8 | PAOZZ | 4730-00-840-8989 | 96906 | MS21920-43 | CLAMP, HOSE..... | | EA | 2 |
| B-5 | 9 | PAOZZ | 4720-01-119-7779 | 19207 | 12271066 | HOSE, ASSEMBLY..... | | EA | 1 |
| B-5 | 10 | PCOZZ | 5330-00-729-5049 | 19207 | 10870861 | PACKING, PREFORMED..... | | EA | 2 |
| B-5 | 11 | XAOZZ | | 19207 | 12271064 | FLANGE..... | | EA | 2 |
| B-5 | 12 | XAOZZ | | 19207 | 12271066-1 | HOSE..... | | EA | 1 |
| B-5 | 13 | A0000 | | 19207 | 12304176 | PLUG ASSEMBLY (USE WITH P/N 12304178-1 AND 12304178-2)..... | | EA | 2 |
| B-5 | 13 | A0000 | | 19207 | 12252143 | PLUG ASSEMBLY (USE WITH P/N 12252354-1 AND 12252354-2)..... | | EA | 2 |
| B-5 | 14 | PAOZZ | 4730-01-043-7679 | 19207 | 12252365 | PLUG..... | | EA | 1 |
| B-5 | 15 | PAOZZ | 4030-00-780-9350 | 96906 | MS87006-13 | HOOK, CHAIN, SAFETY..... | | EA | 2 |
| B-5 | 16 | MOOZZ | | 81348 | RRC271 | CHAIN, WELDED (MAKE FROM NSN 4010-00-165-6064)..... | | FT | V |
| B-5 | 17 | PAOZZ | 6685-01-055-5116 | 19207 | 11669029-1 | RESTRICTION INDICAT (USE WITH P/N 12252354-1 AND 12252354-2)..... | | EA | 2 |
| B-5 | 17 | PAOZZ | 5895-01-134-8291 | 19207 | 11669717 | RESTRICTION INDICAT (USE WITH P/N 12304178-1 AND 12304178-2)..... | | EA | 2 |
| B-5 | 18 | PAOZZ | 5310-00-950-0039 | 96906 | MS21044N6 | NUT, SELF-LOCKING..... | | EA | 20 |
| B-5 | 19 | PAOZZ | 4730-00-221-2136 | 96906 | M220913-1S | PLUG..... | | EA | 1 |
| B-5 | 20 | PAOZZ | 4730-01-134-1957 | 19207 | 12304178-1 | ELBOW, LEFT..... | | EA | 1 |
| B-5 | 20 | PAOZZ | 4730-01-134-1958 | 19207 | 12304178-2 | ELBOW, RIGHT..... | | EA | 1 |
| B-5 | 20 | PAOZZ | 2940-01-037-4976 | 19207 | 12252354-1 | ELBOW, LEFT (REPLACE WITH P/N 12304178-1)..... | | EA | 1 |
| B-5 | 20 | PAOZZ | 2940-01-037-4977 | 19207 | 12252354-2 | ELBOW, RIGHT (REPLACE WITH P/N 12304178-2)..... | | EA | 1 |
| B-5 | 21 | PAOZZ | | 19207 | 12304177 | SHIELD (USE WITH P/N 12304178-1 AND 12304178-2)..... | | EA | 1 |
| B-5 | 22 | XAOZZ | | 19207 | 12252352-1 | ELBOW, LEFT (USE WITH P/N 12304178-1)..... | | EA | 1 |
| B-5 | 22 | XAOZZ | | 19207 | 12252352-2 | ELBOW, RIGHT (USE WITH P/N 12304178-2)..... | | EA | 1 |
| B-5 | 23 | PAOZZ | 4730-01-132-9086 | 19207 | 11669683 | CLAMP, LOOP..... | | EA | 1 |
| B-5 | 24 | PAOZZ | 5330-01-128-5650 | 19207 | 12304168 | GASKET..... | | EA | 2 |
| B-5 | 25 | PAOZZ | 5305-00-724-7223 | 96906 | MS90728-165 | SCREW, CAP, HEX HEAD..... | | EA | 12 |
| B-5 | 26 | PAOZZ | 5310-01-124-6063 | 96906 | MS21206-10 | WASHER..... | | EA | V |
| B-5 | 27 | PAOZZ | 5310-00-964-8588 | 19207 | 10910174-18 | WASHER, FLAT..... | | EA | 12 |
| B-5 | 28 | PAOZZ | 5310-00-763-8920 | 96906 | MS51967-20 | NUT, PLAIN, HEXAGON..... | | EA | 12 |
| B-5 | 29 | PAOZZ | 5330-00-678-4699 | 19207 | 8762775 | GASKET, AIR INTAKE..... | | EA | 2 |
| B-5 | 30 | PAOZZ | 2940-00-168-2246 | 19207 | 10863874 | ELBOW, AIR CLEANER ,RIGHT..... | | EA | 1 |
| B-5 | 30 | PAOZZ | 2940-01-080-8023 | 19207 | 12257993 | ELBOW, AIR CLEANER ,LEFT..... | | EA | 1 |
| B-5 | 31 | PAOZZ | 4730-00-062-7435 | 96906 | MS21920-61R | CLAMP, HOSE..... | | EA | 4 |
| B-5 | 32 | PAOZZ | 4720-00-678-4700 | 19207 | 8762783 | HOSE, PREFORMED..... | | EA | 2 |
| B-5 | 33 | PAOZZ | 5310-00-637-9541 | 96906 | MS35338-46 | WASHER, LOCK..... | | EA | 28 |
| B-5 | 34 | PAOZZ | 5310-00-732-0559 | 96906 | MS51968-8 | NUT, PLAIN, HEXAGON..... | | EA | 28 |
| B-5 | 35 | PAOZZ | 5306-00-225-8497 | 96906 | MS90725-32 | BOLT, MACHINE..... | | EA | 8 |
| B-5 | 36 | PAOZZ | 5310-00-167-0721 | 96906 | MS35333-41 | WASHER, LOCK..... | | EA | 8 |
| B-5 | 37 | PAOZZ | 2940-00-933-9946 | 19207 | 8762777 | COVER, AIR CLEANER..... | | EA | 2 |
| B-5 | 38 | PAOZZ | 5330-00-678-3489 | 19207 | 10863870 | GASKET, AIR CLEANER..... | | EA | 2 |
| B-5 | 39 | PAOZZ | 5330-00-930-1624 | 19207 | 11591585 | GASKET..... | | EA | 4 |
| | | | | | | CONTINUED NEXT PAGE | | | |

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0304: AIR CLEANER-AIR CLEANER HOSE ASSEMBLY AND RELATED PARTS (2C AND 2D ENGINES) -CONTINUED | | |
| B-5 | 40 | PAOZZ | 2940-00-932-3565 | 19207 | 8762784 | FLANGE, AIR CLEANER..... | EA | 2 |
| B-5 | 41 | PAOZZ | 5307-01-006-5515 | 96906 | MS51864-104-16 | STUD, PLAIN..... | EA | 12 |
| B-5 | 42 | PAOZZ | 2940-00-045-6873 | 19207 | 11591586 | SCREEN..... | EA | 2 |
| B-5 | 43 | PAOZZ | 5330-00-678-1851 | 19207 | 8762781 | GASKET..... | EA | 2 |
| B-5 | 44 | PAOZZ | 2940-00-168-2243 | 19207 | 8762785 | AIR CLEANER, INTAKE..... | EA | 2 |

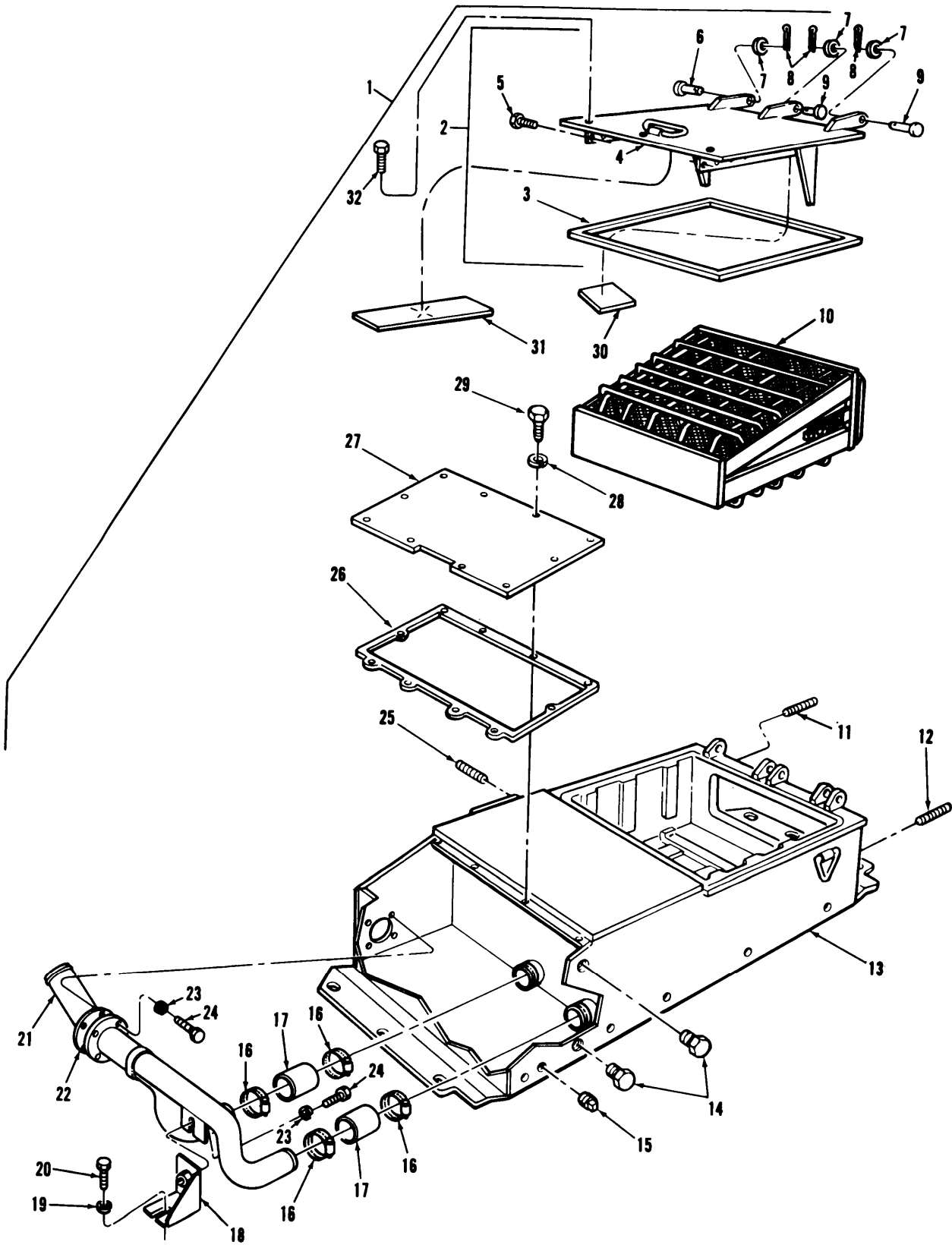


FIGURE B-6. ARMORED TOP LOADING AIR CLEANER AND RELATED PARTS (2CA AND 2DA ENGINES).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|-----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0304: AIR CLEANER-ARMORED TOP LOADING AIR CLEANER AND RELATED PARTS (2CA AND 2DA ENGINES) | | |
| B-6 | 1 | PAOOD | 2940-01-152-2387 | 19207 | 12325888-2 | AIR CLEANER ASSEMBLY, RIGHT..... | EA | 1 |
| B-6 | 1 | PAOOD | 2940-01-152-2386 | 19207 | 12325888-1 | AIR CLEANER ASSEMBLY, LEFT..... | EA | 1 |
| B-6 | 2 | PAOOD | 5340-01-016-4429 | 19207 | 12251910 | DOOR, ACCESS..... | EA | 1 |
| B-6 | 3 | PCOZZ | 5330-01-129-0642 | 19207 | 12304136 | GASKET..... | EA | 1 |
| B-6 | 4 | XADZZ | | 19207 | 12251908 | DOOR..... | EA | 1 |
| B-6 | 5 | PAOZZ | 5306-01-091-3384 | 19207 | 12290914 | BOLT, SELF-LOCKING..... | EA | 8 |
| B-6 | 6 | PAOZZ | 5315-00-903-7885 | 96906 | MS20392-7C55 | PIN, STRAIGHT, HEAD..... | EA | 1 |
| B-6 | 7 | PAOZZ | 5310-00-809-5998 | 96906 | MS27183-18 | WASHER, FLAT..... | EA | 3 |
| B-6 | 8 | PAOZZ | 5315-00-816-1794 | 96906 | MS24665-285 | PIN, COTTER..... | EA | 3 |
| B-6 | 9 | PAOZZ | 5315-00-778-9646 | 96906 | MS20392-7C81 | PIN, STRAIGHT, HEAD..... | EA | 2 |
| B-6 | 10 | PAOZZ | 2940-01-142-8260 | 19207 | 11669740 | FILTER..... | EA | 1 |
| B-6 | 11 | PAOZZ | 5307-01-128-5681 | 19207 | 12304169-1 | STUD, PLAIN..... | EA | 2 |
| B-6 | 12 | PAOZZ | 5307-01-128-5682 | 19207 | 12304169-2 | STUD, PLAIN..... | EA | 12 |
| B-6 | 13 | XADDD | | 19207 | 12325885-2 | HOUSING, AIR CLEANER (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-2 ONLY)..... | EA | 1 |
| B-6 | 13 | XADDD | | 19207 | 12325885-1 | HOUSING, AIR CLEANER (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-1 ONLY)..... | EA | 1 |
| B-6 | 14 | PAOZZ | 4730-00-678-4749 | 19207 | 10863625 | PLUG, PIPE..... | EA | 2 |
| B-6 | 15 | PAOZZ | 4730-00-580-6740 | 96906 | MS20913-3J | PLUG, PIPE..... | EA | 1 |
| B-6 | 16 | PAOZZ | 4730-00-909-8627 | 96906 | MS35842-13 | CLAMP, HOSE..... | EA | 4 |
| B-6 | 17 | PAOZZ | | 96906 | MS521301A2-12-3 | HOSE..... | EA | 2 |
| B-6 | 18 | PAOZZ | 5340-01-152-2515 | 19207 | 12304324 | BRACKET..... | EA | 1 |
| B-6 | 19 | PAOZZ | 5305-00-974-6623 | 96906 | MS35338-140 | WASHER, LOCK..... | EA | 1 |
| B-6 | 20 | PAOZZ | 5306-00-226-4822 | 96906 | MS90728-29 | SCREW, CAP, HEX HEAD..... | EA | 1 |
| B-6 | 21 | PAOZZ | 2815-01-152-2563 | 19207 | 12304319 | MANIFOLD, RIGHT SIDE (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-2 ONLY)..... | EA | 1 |
| B-6 | 21 | PAOZZ | 2815-01-154-1396 | 19207 | 12304329 | MANIFOLD, SCAVENGE (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-1 ONLY)..... | EA | 1 |
| B-6 | 22 | PAOZZ | 5330-01-152-2486 | 19207 | 12304318 | GASKET (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-2 ONLY)..... | EA | 1 |
| B-6 | 22 | PAOZZ | 5330-01-152-2487 | 19207 | 12304325 | GASKET (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-1 ONLY)..... | EA | 1 |
| B-6 | 23 | PAOZZ | 5310-00-933-8121 | 96906 | MS35338-139 | WASHER, LOCK..... | EA | 5 |
| B-6 | 24 | PAOZZ | 5305-00-068-0508 | 96906 | MS90728-6 | SCREW, CAP, HEX HEAD..... | EA | 5 |
| B-6 | 25 | PAOZZ | 5307-00-178-8859 | 19207 | 8762863-1 | STUD, PLAIN..... | EA | 10 |
| B-6 | 26 | PAOZZ | 5330-01-035-9825 | 19207 | 12251902 | GASKET..... | EA | 1 |
| B-6 | 27 | PBOZZ | 5340-01-152-2543 | 19207 | 12325889 | COVER..... | EA | 1 |
| B-6 | 28 | PAOZZ | 5310-00-407-9566 | 96906 | MS35338-45 | WASHER, LOCK..... | EA | 10 |
| B-6 | 29 | PAOZZ | 5306-00-225-8498 | 96906 | MS90725-33 | SCREW, CAP, HEX HEAD..... | EA | 10 |
| B-6 | 30 | PAOZZ | | 19207 | 11659642-74 | PLATE, I.D. (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-2 ONLY)..... | EA | 1 |
| B-6 | 30 | PAOZZ | | 19207 | 11659642-73 | PLATE, I.D. (FOR USE WITH AIR CLEANER ASSEMBLY 12325888-1 ONLY)..... | EA | 1 |
| B-6 | 31 | PAOZZ | 7690-01-038-7440 | 19207 | 12252675 | MARKER, I.D..... | EA | 1 |
| B-6 | 32 | PAOZZ | 5306-01-091-3384 | 19207 | 12290914 | BOLT, SELF-LOCKING..... | EA | 3 |

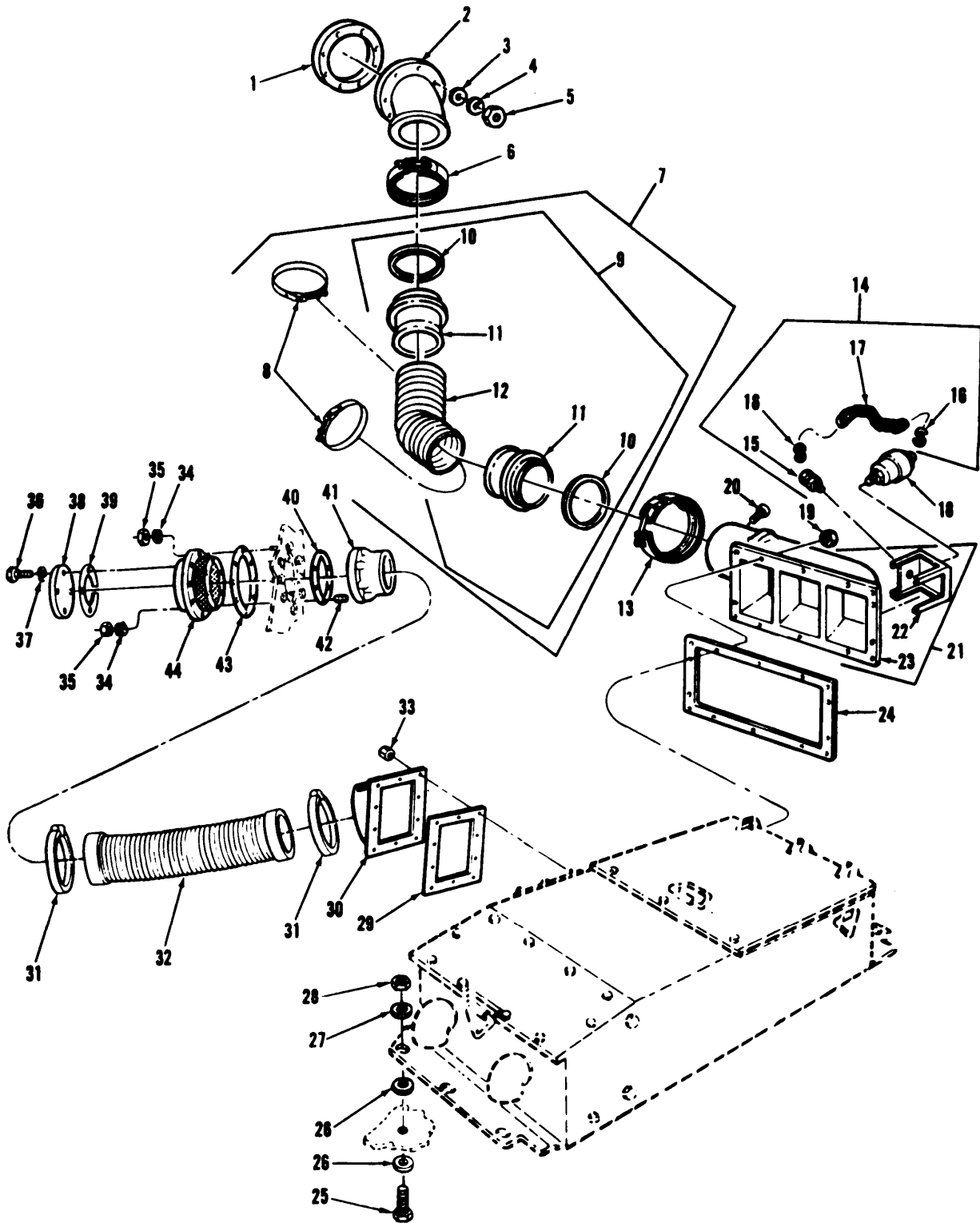


FIGURE B-7. AIR CLEANER HOSE ASSEMBLIES AND RELATED PARTS (2CA AND 2DA ENGINES).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0304: AIR CLEANER-AIR CLEANER HOSE ASSEMBLIES AND RELATED PARTS (2CA AND 2DA ENGINES) | | |
| B-7 | 1 | PAOZZ | 5330-00-678-3488 | 19207 | 8762780 | GASKET..... | EA | 2 |
| B-7 | 2 | PAOZZ | 4730-01-144-4889 | 19207 | 12304341-1 | ELBOW, LEFT..... | EA | 1 |
| B-7 | 2 | PAOZZ | 4730-01-144-4890 | 19207 | 12304341-2 | ELBOW, RIGHT..... | EA | 1 |
| B-7 | 3 | PAOZZ | 5310-00-081-4219 | 96906 | MS27183-12 | WASHER, FLAT..... | EA | 16 |
| B-7 | 4 | PAOZZ | 5310-00-407-9566 | 96906 | MS35338-45 | WASHER, LOCK..... | EA | 16 |
| B-7 | 5 | PAOZZ | 5310-00-880-7746 | 96906 | MS51968-5 | NUT, PLAIN, HEXAGON..... | EA | 16 |
| B-7 | 6 | PAOZZ | 5340-00-678-6178 | 19207 | 8711310 | CLAMP ASSEMBLY..... | EA | 1 |
| B-7 | 7 | PAOZZ | 4720-01-121-1542 | 19207 | 12271067 | HOSE, ASSEMBLY..... | EA | 2 |
| B-7 | 8 | PAOZZ | 4730-00-840-8989 | 96906 | MS21920-43 | CLAMP, HOSE..... | EA | 2 |
| B-7 | 9 | PAOZZ | 4720-01-119-7779 | 19207 | 12271066 | HOSE, ASSEMBLY..... | EA | 1 |
| B-7 | 10 | PCOZZ | 5330-00-729-5049 | 19207 | 10870861 | PACKING, PREFORMED..... | EA | 2 |
| B-7 | 11 | XAOZZ | | 19207 | 12271064 | FLANGE..... | EA | 2 |
| B-7 | 12 | XAOZZ | | 19207 | 12271066-1 | HOSE..... | EA | 1 |
| B-7 | 13 | PAOZZ | 4730-01-132-9086 | 19207 | 11669683 | CLAMP..... | EA | 2 |
| B-7 | 14 | AOOOO | | 19207 | 12304176 | PLUG RSTR IND ELBOW..... | EA | 1 |
| B-7 | 15 | PAOZZ | 4730-01-043-7679 | 19207 | 12252365 | PLUG..... | EA | 2 |
| B-7 | 16 | PAOZZ | 4030-00-780-9350 | 96906 | MS87006-13 | HOOK, CHAIN, SAFETY..... | EA | 2 |
| B-7 | 17 | MOOZZ | | 81348 | RRC271 | CHAIN, WELDED (MAKE FROM NSN 4010-00-165-6064)..... | FT | V |
| B-7 | 18 | PAOZZ | 5895-01-134-8291 | 19207 | 11669717 | RESTRICTION INDICAT..... | EA | 2 |
| B-7 | 19 | PAOZZ | 5310-00-814-0672 | 96906 | MS51943-36 | NUT, PLAIN, HEXAGON..... | EA | 28 |
| B-7 | 20 | PAOZZ | 4730-00-221-2136 | 96906 | MS20913-1S | PLUG..... | EA | 1 |
| B-7 | 21 | PAOZZ | 4730-01-134-1957 | 19207 | 12304178-1 | ELBOW, LEFT..... | EA | 1 |
| B-7 | 21 | PAOZZ | 4730-01-134-1958 | 19207 | 12304178-2 | ELBOW, RIGHT..... | EA | 1 |
| B-7 | 22 | PAOZZ | | 19207 | 12304177 | SHIELD..... | EA | 1 |
| B-7 | 23 | XAOZZ | | 19207 | 12252352-1 | ELBOW, LEFT..... | EA | 1 |
| B-7 | 23 | XAOZZ | | 19207 | 12252352-2 | ELBOW, RIGHT..... | EA | 1 |
| B-7 | 24 | PAOZZ | 5330-01-128-5650 | 19207 | 12304168 | GASKET..... | EA | 2 |
| B-7 | 25 | PAOZZ | 5305-00-724-7223 | 96906 | MS90728-165 | SCREW, CAP, HEX HEAD..... | EA | 12 |
| B-7 | 26 | PAOZZ | 5310-01-124-6063 | 96906 | MS21206-10 | WASHER..... | EA | V |
| B-7 | 27 | PAOZZ | 5310-00-964-8588 | 19207 | 10910174-18 | WASHER, FLAT..... | EA | 12 |
| B-7 | 28 | PAOZZ | 5310-00-763-8920 | 96906 | MS51967-20 | NUT, PLAIN, HEXAGON..... | EA | 12 |
| B-7 | 29 | PAOZZ | 5330-00-678-4699 | 19207 | 8762775 | GASKET, AIR INTAKE..... | EA | 2 |
| B-7 | 30 | PAOZZ | 4730-01-144-4887 | 19207 | 12304306 | ELBOW, LEFT..... | EA | 1 |
| B-7 | 30 | PAOZZ | 4730-01-144-4888 | 19207 | 12304309 | ELBOW, RIGHT..... | EA | 1 |
| B-7 | 31 | PAOZZ | 4730-00-062-7435 | 96906 | MS21920-61R | CLAMP, HOSE..... | EA | 4 |
| B-7 | 32 | PAOZZ | 4720-00-678-4700 | 19207 | 8762783 | HOSE, PREFORMED..... | EA | 2 |
| B-7 | 33 | PAOZZ | 5310-00-950-0039 | 96906 | MS21044N6 | NUT, SELF-LOCKING..... | EA | 20 |
| B-7 | 34 | PAOZZ | 5310-00-637-9541 | 96906 | MS35338-46 | WASHER, LOCK..... | EA | 28 |
| B-7 | 35 | PAOZZ | 5310-00-732-0559 | 96906 | MS51968-8 | NUT, PLAIN, HEXAGON..... | EA | 28 |
| B-7 | 36 | PAOZZ | 5306-00-225-8497 | 96906 | MS90725-32 | BOLT, MACHINE..... | EA | 8 |
| B-7 | 37 | PAOZZ | 5310-00-167-0721 | 96906 | MS35333-41 | WASHER, LOCK..... | EA | 8 |
| B-7 | 38 | PAOZZ | 2940-00-933-9946 | 19207 | 8762777 | COVER, AIR CLEANER..... | EA | 2 |
| B-7 | 39 | PAOZZ | 5330-00-678-3489 | 19207 | 10863870 | GASKET, AIR CLEANER..... | EA | 2 |
| B-7 | 40 | PAOZZ | 5330-01-158-2069 | 19207 | 12304299 | GASKET..... | EA | 2 |
| B-7 | 41 | PAOZZ | 2940-00-932-3565 | 19207 | 8762784 | FLANGE, AIR CLEANER..... | EA | 2 |
| B-7 | 42 | PAOZZ | 5307-01-006-5515 | 96906 | MS51864-104-16 | STUD, PLAIN..... | EA | 12 |
| B-7 | 43 | PAOZZ | 5330-00-678-1851 | 19207 | 8762781 | GASKET..... | EA | 2 |
| B-7 | 44 | PAOZZ | 2940-01-144-4872 | 19207 | 12304307 | INTAKE, AIR..... | EA | 2 |

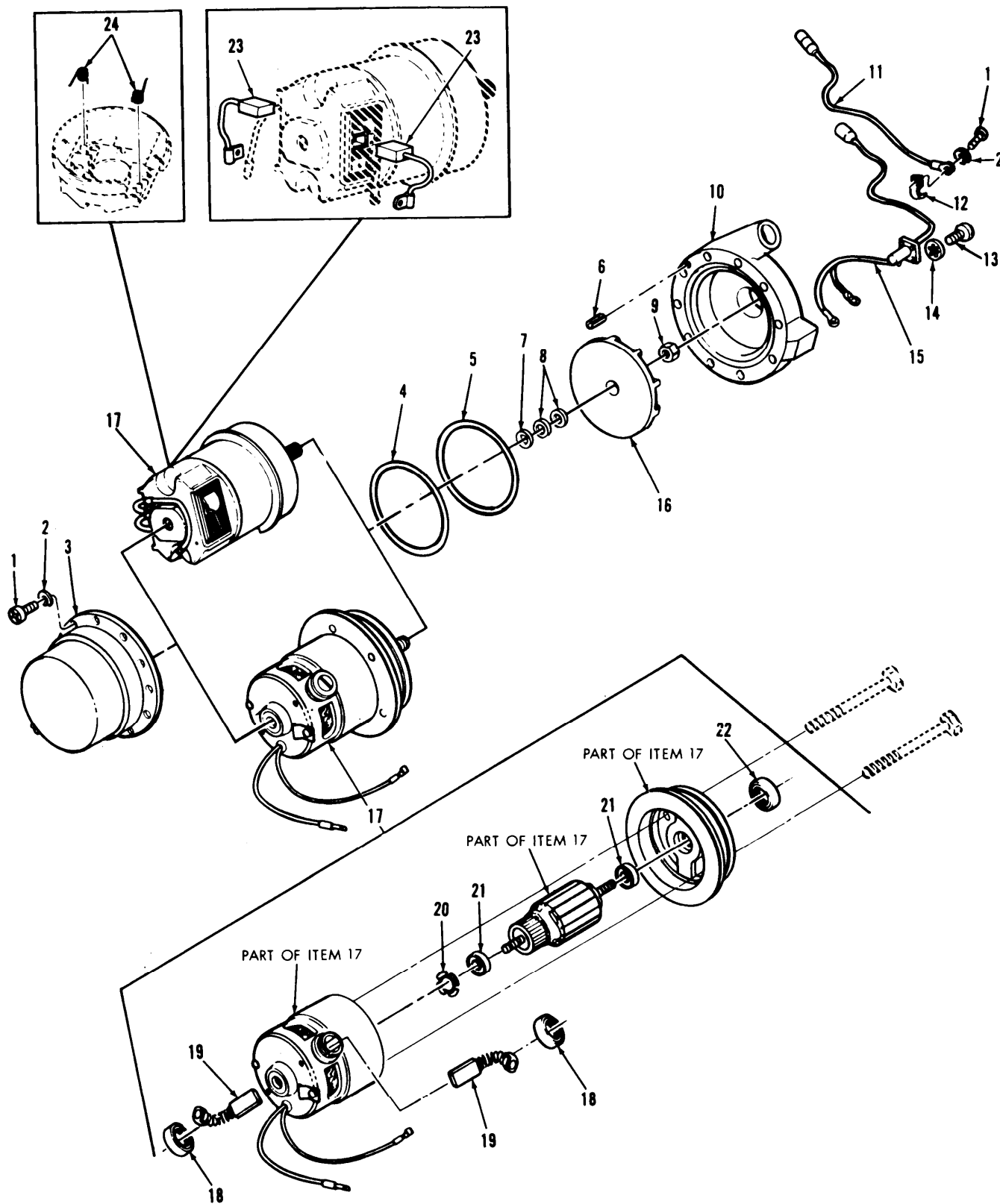


FIGURE B-8. AIR CLEANER CENTRIFUGAL FAN ASSEMBLY.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0304: AIR CLEANER-AIR CLEANER CENTRIFUGAL FAN ASSEMBLY | | |
| B-8 | 1 | PAFZZ | 5305-00-984-6191 | 96906 | MS35206-243 | SCREW, MACHINE..... | EA | 11 |
| B-8 | 2 | PAFZZ | 5310-00-559-0070 | 96906 | MS35333-38 | WASHER, LOCK..... | EA | 11 |
| B-8 | 3 | PAFZZ | 2920-00-103-9397 | 19207 | 10870920 | COVER, ELEC MOTOR..... | EA | 1 |
| B-8 | 4 | KFFZZ | | 19207 | 10934405 | PACKING, PREFORMED PART OF KIT P/N 5703549 AND 5705125.. | EA | 1 |
| B-8 | 5 | KFFZZ | | 96906 | MS9021-154 | PACKING, PREFORMED PART OF KIT P/N 5703549 AND 5705125.. | EA | 1 |
| B-8 | 6 | PAFZZ | 5315-00-882-1438 | 96906 | MS16562-193 | PIN, SPRING..... | EA | 1 |
| B-8 | 7 | KFFZZ | | 19207 | 10933966 | WASHER, FLAT PART OF KIT P/N 5703549 AND 5705125..... | EA | 1 |
| B-8 | 8 | KFFZZ | | 19207 | 10933967 | WASHER, FLAT PART OF KIT P/N 5703549 AND 5705125..... | EA | V |
| B-8 | 9 | KFFZZ | | 96906 | MS21042-5 | NUT, SELF-LOCKING PART OF KIT P/N 5703549 AND 5705125... | EA | 1 |
| B-8 | 10 | PAFZZ | 2940-00-930-8765 | 19207 | 10905009 | HOUSING, IMPELLER..... | EA | 1 |
| B-8 | 11 | PAFZZ | 2940-00-886-5841 | 19207 | 10870919 | LEAD, ELECTRICAL..... | EA | 1 |
| B-8 | 12 | PAFZZ | 5340-00-900-2347 | 19207 | 8728293 | STRAP, RETAINING..... | EA | 1 |
| B-8 | 13 | PAFZZ | 5305-00-984-4984 | 96906 | MS35206-227 | SCREW, MACHINE..... | EA | 4 |
| B-8 | 14 | PAFZZ | 5310-00-579-0079 | 96906 | MS35333-37 | WASHER, LOCK..... | EA | 4 |
| B-8 | 15 | PAFZZ | 2920-00-770-1642 | 19207 | 8728292 | LEAD AND CAPACITOR..... | EA | 1 |
| B-8 | 16 | PAFZZ | 2940-00-043-0279 | 19207 | 10933968 | IMPELLER, FAN, CENTER..... | EA | 1 |
| B-8 | 17 | PAOFF | 6105-01-092-1484 | 19207 | 12270348 | MOTOR, DIRECT CURRENT PART OF KIT P/N 5703549 (OPTIONAL WITH P/N 10905006)..... | EA | 1 |
| B-8 | 17 | PAOFF | 6105-00-801-8716 | 19207 | 10905006 | MOTOR, DIRECT CURRENT (OPTIONAL WITH P/N 12270348)..... | EA | 1 |
| B-8 | 18 | KFFZZ | | 19207 | 11669724 | BRUSH CAP PART OF KIT P/N 5705125..... | EA | 2 |
| B-8 | 19 | KFFZZ | | 19207 | 10898844 | BRUSH, ELECTRICAL PART OF KIT P/N 5705125..... | EA | 2 |
| B-8 | 20 | KFFZZ | | 19207 | 7759648-2 | WASHER, SPRING PART OF KIT P/N 5705125..... | EA | 1 |
| B-8 | 21 | KFFZZ | | 19207 | 11669704 | BEARING PART OF KIT P/N 5705125..... | EA | 2 |
| B-8 | 22 | KFFZZ | | 19207 | 12304190 | SPACER PART OF KIT P/N 5705125..... | EA | 1 |
| B-8 | 23 | KFFZZ | | 19207 | 8728295 | BRUSH, ELECTRICAL PART OF KIT P/N 5702404..... | EA | 1 |
| B-8 | 24 | KFFZZ | | 19207 | 8728294 | SPRING, HELICAL PART OF KIT P/N 5702404..... | EA | 1 |
| B-8 | | PAFZZ | 2940-00-900-8554 | 19207 | 5703549 | PARTS KIT, AIR CLEANER..... | EA | 1 |
| B-8 | 4 | | | | | PACKING, PREFORMED..... | EA | 1 |
| B-8 | 5 | | | | | PACKING, PREFORMED..... | EA | 1 |
| B-8 | 7 | | | | | WASHER, FLAT..... | EA | 1 |
| B-8 | 8 | | | | | WASHER, FLAT..... | EA | 2 |
| B-8 | 9 | | | | | NUT, SELF-LOCKING..... | EA | 1 |
| B-8 | 17 | | | | | MOTOR, DIR CURRENT..... | EA | 1 |
| B-8 | | PAFZZ | 6105-01-147-5170 | 19207 | 5705125 | KIT, REPAIR PARTS..... | EA | 1 |
| B-8 | 4 | | | | | PACKING, PREFORMED..... | EA | 1 |
| B-8 | 5 | | | | | PACKING, PREFORMED..... | EA | 1 |
| B-8 | 7 | | | | | WASHER, FLAT..... | EA | 1 |
| B-8 | 8 | | | | | WASHER, FLAT..... | EA | V |
| B-8 | 9 | | | | | NUT, SELF-LOCKING..... | EA | 1 |
| B-8 | 18 | | | | | BRUSH CAP..... | EA | 2 |
| B-8 | 19 | | | | | BRUSH, ELECTRICAL..... | EA | 2 |
| B-8 | 20 | | | | | WASHER, SPRING..... | EA | 1 |
| B-8 | 21 | | | | | BEARING..... | EA | 2 |
| B-8 | 22 | | | | | SPACER..... | EA | 1 |
| B-8 | | PAFZZ | 6105-00-084-7618 | 19207 | 5702404 | PARTS KIT, MOTOR ELECTRICAL..... | EA | 1 |
| B-8 | 23 | | | | | BRUSH, ELECTRICAL..... | EA | 1 |
| B-8 | 24 | | | | | SPRING, HELICAL..... | EA | 1 |

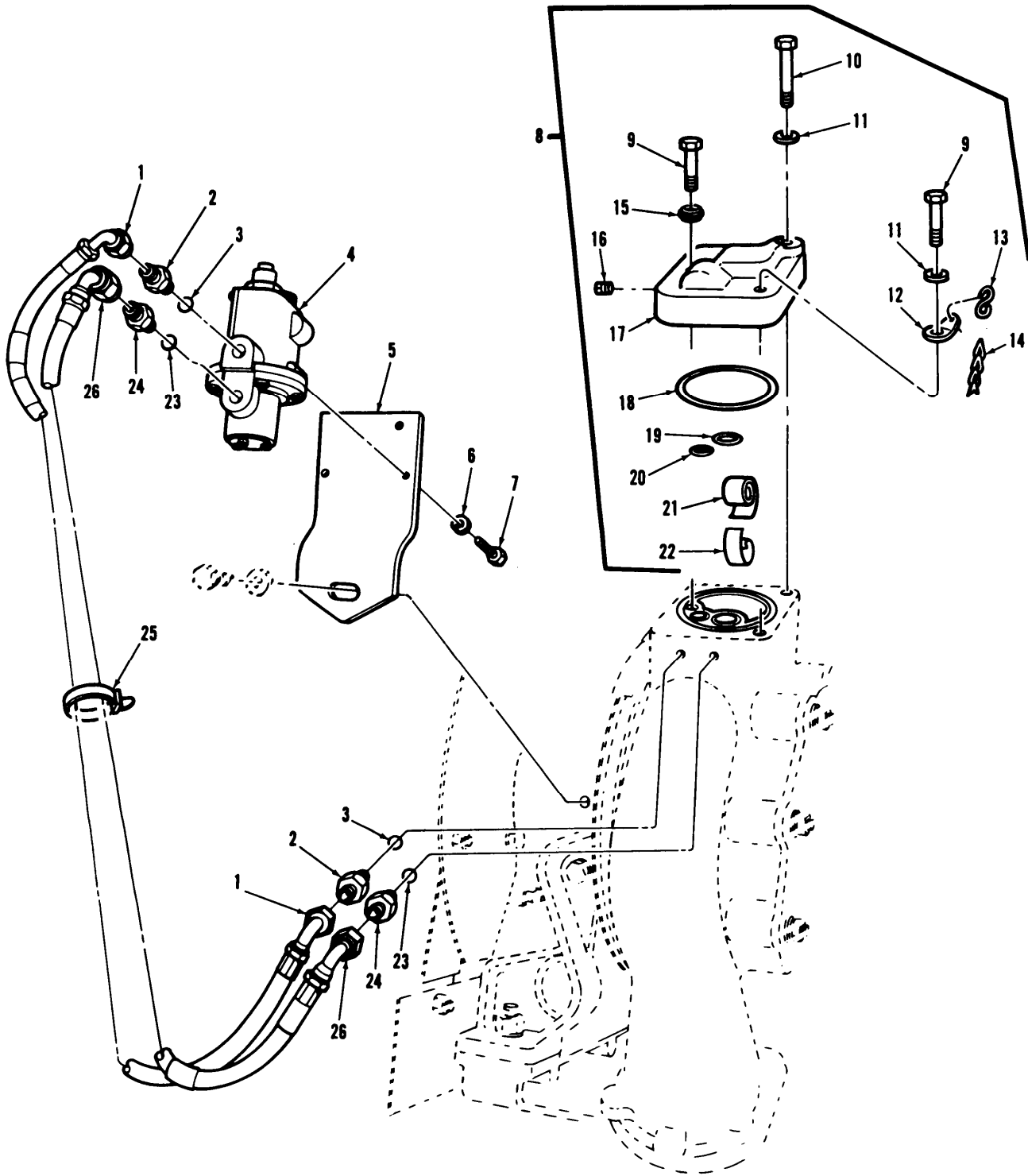


FIGURE B-9. TURBOCHARGER DUST DETECTOR SYSTEM (2CA AND 2DA ENGINES).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|-----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0305: TURBOCHARGER-TURBOCHARGER DUST DETECTOR SYSTEM (2CA AND 2DA ENGINES) | | |
| B-9 | 1 | PAOZZ | | 00624 | AE6040F0092-020 | ADAPTER, STRAIGHT, LEFT..... | | EA 1 |
| B-9 | 1 | PAOZZ | | 00624 | AE6040F0145-000 | ADAPTER, STRAIGHT, RIGHT..... | | EA 1 |
| B-9 | 2 | PAOZZ | 4730-01-007-5232 | 96906 | MS51525A4 | ADAPTER, STRAIGHT..... | | EA 2 |
| B-9 | 3 | PAOZZ | 5330-00-805-2966 | 96906 | MS28778-4 | PACKING, PREFORMED..... | | EA 2 |
| B-9 | 4 | PAOZZ | 5930-01-147-7912 | 14314 | D52S-13 | SWITCH, PRESSURE..... | | EA 2 |
| B-9 | 5 | PFOZZ | 5340-01-145-8262 | 19207 | 12275870 | BRACKET, MOUNTING..... | | EA 2 |
| B-9 | 6 | PAOZZ | 5310-00-582-5965 | 19207 | 11657469-3 | WASHER, LOCK..... | | EA 6 |
| B-9 | 7 | PAOZZ | 5305-00-068-0512 | 96906 | MS90727-4 | SCREW, CAP, HEXAGON..... | | EA 6 |
| B-9 | 8 | A0000 | | 19207 | 12275864 | COVER, ASSEMBLY, DUST..... | | EA 1 |
| B-9 | 9 | PAOZZ | 5305-01-145-8286 | 19207 | 12275866-1 | SCREW, EXTERNAL..... | | EA 2 |
| B-9 | 10 | PAOZZ | 5305-01-145-8287 | 19207 | 12275866-2 | SCREW, EXTERNAL..... | | EA 1 |
| B-9 | 11 | PAOZZ | 5310-00-194-0636 | 96906 | MS9320-11 | WASHER, FLAT..... | | EA 1 |
| B-9 | 12 | PAOZZ | 4030-01-145-8293 | 19207 | 12275867 | CHAIN, FASTENER..... | | EA 2 |
| B-9 | 13 | PAOZZ | 4030-00-270-5436 | 96906 | MS87006-3 | HOOK, CHAIN S..... | | EA 2 |
| B-9 | 14 | PAOZZ | 4010-01-157-1343 | 19207 | 12275841 | CHAIN, WELDLESS..... | | EA 1 |
| B-9 | 15 | PAOZZ | 5330-01-082-3761 | 19207 | 7033684-1 | SEAL, PLAIN ENCASED..... | | EA 1 |
| B-9 | 16 | PAOZZ | 4730-00-277-6352 | 96906 | MS27769-1 | PLUG, PIPE..... | | EA 1 |
| B-9 | 17 | PFOZZ | 5340-01-145-8310 | 19207 | 12275869 | COVER, ACCESS..... | | EA 1 |
| B-9 | 18 | PAOZZ | 5330-00-180-9951 | 96906 | MS9068-038 | PACKING, PREFORMED..... | | EA 1 |
| B-9 | 19 | PAOZZ | 5330-00-724-5541 | 96906 | MS9068-018 | PACKING, PREFORMED..... | | EA 1 |
| B-9 | 20 | PAOZZ | 5330-00-724-7902 | 96906 | MS9068-013 | PACKING, PREFORMED..... | | EA 1 |
| B-9 | 21 | PAOZZ | 4460-01-145-8299 | 19207 | 12275840 | FILTER, AIR..... | | EA 1 |
| B-9 | 22 | PAOZZ | 5340-01-145-8291 | 19207 | 12275868 | STRAP, RETAINING..... | | EA 1 |
| B-9 | 23 | PAOZZ | 5330-00-803-7491 | 96906 | MS28778-5 | PACKING, PREFORMED..... | | EA 2 |
| B-9 | 24 | PAOZZ | 4730-00-431-9307 | 96906 | MS51525A5 | ADAPTER, STRAIGHT..... | | EA 2 |
| B-9 | 25 | PAOZZ | 5975-00-074-2072 | 96906 | MS3367-1-9 | STRAP, TIE-DOWN..... | | EA 1 |
| B-9 | 26 | PAOZZ | | 00624 | AE6040ED112-020 | ADAPTER, STRAIGHT, LEFT..... | | EA 1 |
| B-9 | 26 | PAOZZ | | 00624 | AE6040ED145-000 | ADAPTER, STRAIGHT, RIGHT..... | | EA 1 |

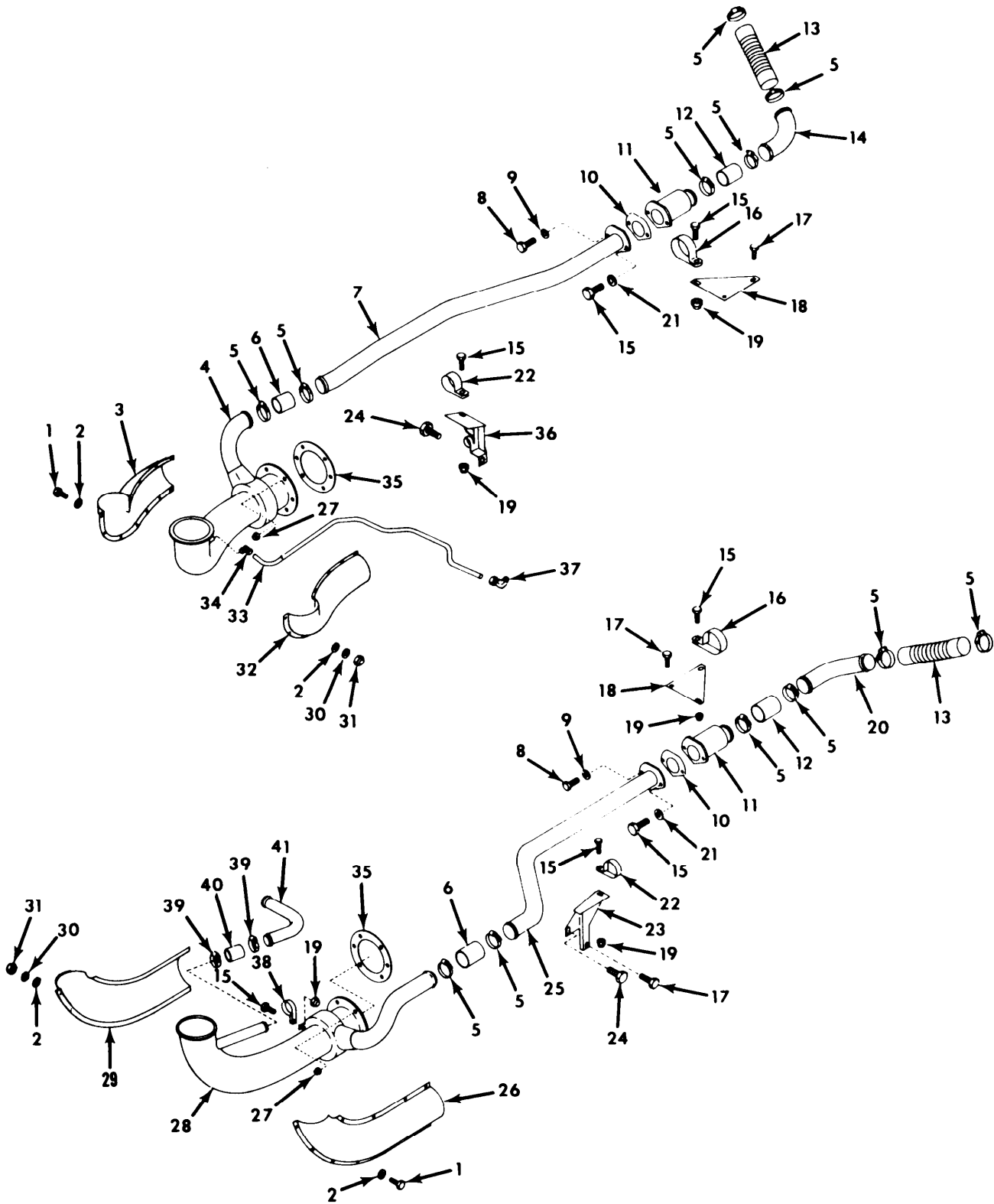


FIGURE B-10. DUST EJECTOR SYSTEM (2CA AND 2DA ENGINES).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 04: EXHAUST SYSTEM | | | |
| | | | | | | GROUP 0401: MUFFLERS AND PIPES-DUST EJECTOR SYSTEM (2CA AND 2DA ENGINES) | | | |
| B-10 | 1 | PAOZZ | 5305-00-054-6652 | 96906 | MS51957-28 | SCREW, MACHINE..... | | EA | 22 |
| B-10 | 2 | PAOZZ | 5310-00-880-5976 | 96906 | MS15795-806 | WASHER, FLAT..... | | EA | 44 |
| B-10 | 3 | PAOZZ | 5640-01-146-1898 | 19207 | 12275889 | INSULATION..... | | EA | 1 |
| B-10 | 4 | PFOZZ | 2815-01-146-1877 | 02978 | 699772 | TUBE EJECTOR, RIGHT..... | | EA | 1 |
| B-10 | 5 | PAOZZ | 4730-00-909-8627 | 96906 | MS35842-13 | CLAMP, HOSE..... | | EA | 1 |
| B-10 | 6 | PAOZZ | 4720-01-095-2429 | 19207 | 10935282-2 | HOSE, NONMETALLIC..... | | EA | 2 |
| B-10 | 7 | PAOZZ | 4710-01-146-1901 | 19207 | 12314569 | TUBE ASSEMBLY, RIGHT..... | | EA | 1 |
| B-10 | 8 | PAOZZ | 5305-00-068-0506 | 96906 | MS90726-6 | SCREW, CAP, HEXAGON..... | | EA | 4 |
| B-10 | 9 | PAOZZ | 5310-00-582-5965 | 19207 | 11657469-3 | WASHER, LOCK..... | | EA | 2 |
| B-10 | 10 | PAOZZ | 5330-01-145-8290 | 19207 | 12275824 | GASKET..... | | EA | 2 |
| B-10 | 11 | PAOZZ | 2990-01-156-6225 | 19207 | 12275844 | CAP ASSEMBLY..... | | EA | 2 |
| B-10 | 12 | PAOZZ | 4720-01-146-1887 | 19207 | 12275883 | HOSE, AIR DUCT, RUBBER..... | | EA | 2 |
| B-10 | 13 | PAOZZ | 4720-01-146-1888 | 19207 | 12314574 | HOSE, AIR DUCT..... | | EA | 2 |
| B-10 | 14 | PFOZZ | 4710-01-146-1910 | 19207 | 12314568 | TUBE, BENT, METALLIC, FRONT RIGHT..... | | EA | 1 |
| B-10 | 15 | PAOZZ | 5306-00-050-1238 | 96906 | MS90727-32 | BOLT, MACHINE..... | | EA | 7 |
| B-10 | 16 | PAOZZ | | 19207 | 12314637 | CLAMP, LOOP..... | | EA | 2 |
| B-10 | 17 | PAOZZ | 5305-00-019-2417 | 21450 | 192417 | SCREW, ASSEMBLED, WASHER..... | | EA | 4 |
| B-10 | 18 | PFOZZ | 5340-01-145-8301 | 19207 | 12275822 | BRACKET, MOUNTING..... | | EA | 2 |
| B-10 | 19 | PAOZZ | 5310-00-982-4912 | 96906 | MS21045-5 | NUT, SELF-LOCKING HEXAGON..... | | EA | 2 |
| B-10 | 20 | PFOZZ | 4710-01-146-1909 | 19207 | 12314564 | TUBE, BENT, METALLIC, FRONT..... | | EA | 1 |
| B-10 | 21 | PAOZZ | 5310-00-407-9566 | 19207 | 7410218 | WASHER, LOCK..... | | EA | 2 |
| B-10 | 22 | PAOZZ | 5350-01-145-8303 | 19207 | 12275861 | CLAMP, LOOP..... | | EA | 2 |
| B-10 | 23 | PFOZZ | 5340-01-146-1895 | 19207 | 12314561 | BRACKET, DOUBLE ANGLE, LEFT..... | | EA | 1 |
| B-10 | 24 | PAOZZ | 5306-00-069-3019 | 88044 | AN8C56A | BOLT, MACHINE..... | | EA | 2 |
| B-10 | 25 | PFOZZ | 4710-01-146-1900 | 19207 | 12314565 | TUBE ASSEMBLY, REAR..... | | EA | 1 |
| B-10 | 26 | PAOZZ | 5640-01-146-1890 | 19207 | 12275891 | INSULATION SLEEVEING..... | | EA | 1 |
| B-10 | 27 | PAOZZ | 5310-01-151-2732 | 19207 | 12275894 | NUT, SELF LOCKING HEXAGON..... | | EA | 12 |
| B-10 | 28 | PFOZZ | 2815-01-146-1878 | 02978 | 699883 | TUBE EJECTOR, LEFT..... | | EA | 1 |
| B-10 | 29 | PAOZZ | 5640-01-146-1891 | 19207 | 12275892 | INSULATION SLEEVEING..... | | EA | 1 |
| B-10 | 30 | PAOZZ | 5310-00-209-1366 | 96906 | MS35335-58 | WASHER, LOCK..... | | EA | 22 |
| B-10 | 31 | PAOZZ | 5310-00-934-9761 | 96906 | MS35649-264 | NUT, PLAIN..... | | EA | 22 |
| B-10 | 32 | PAOZZ | 5640-01-146-1889 | 19207 | 12275890 | INSULATION SLEEVEING..... | | EA | 1 |
| B-10 | 33 | PAOZZ | 4710-01-145-8311 | 19207 | 12275831 | TUBE, STEEL..... | | EA | 1 |
| B-10 | 34 | PAOZZ | 4730-00-993-5002 | 96906 | MS51820-6P | ELBOW, TUBE..... | | EA | 1 |
| B-10 | 35 | PAOZZ | 5330-00-678-4712 | 19207 | 10864007 | GASKET..... | | EA | 2 |
| B-10 | 36 | PFOZZ | 5340-01-145-8302 | 19207 | 12275823 | BRACKET, MOUNTING RIGHT..... | | EA | 1 |
| B-10 | 37 | PAOZZ | 4730-01-003-6044 | 96906 | MS51815-8 | ELBOW, PIPE TO TUBE..... | | EA | 1 |
| B-10 | 38 | PAOZZ | 5340-00-282-7548 | 96906 | MS21333-52 | CLAMP, LOOP..... | | EA | 1 |
| B-10 | 39 | PAOZZ | 4730-00-908-3193 | 19207 | 11630499-1 | CLAMP, HOSE..... | | EA | 2 |
| B-10 | 40 | PAOZZ | 4720-00-896-6166 | 19207 | 10898794 | HOSE, AIR DUCT..... | | EA | 1 |
| B-10 | 41 | PFOZZ | 4710-01-150-4822 | 19207 | 12275880 | TUBE, BENT, METALLIC..... | | EA | 1 |

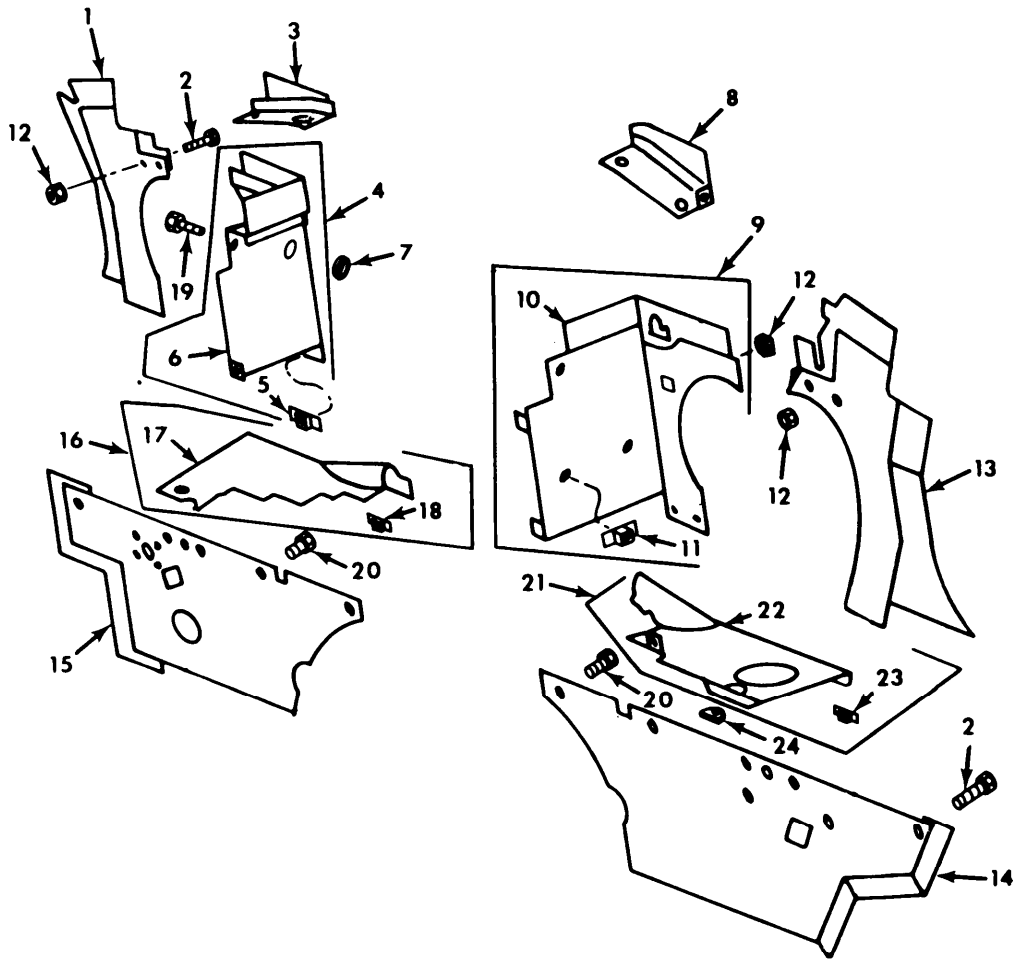


FIGURE B-11. ENGINE SHROUDS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 05: COOLING SYSTEM | | |
| | | | | | | GROUP 0502: SHROUDS-ENGINE SHROUDS | | |
| B-11 | 1 | PFOZZ | 2815-00-446-1757 | 19207 | 10865272 | SHROUD, AIR FLOW (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-11 | 1 | PFOZZ | 2590-01-152-7118 | 19207 | 12314599 | PLATE, TURBOSUPERCHARGER (USE WITH 2CA AND 2DA ENGINES).. | EA | 1 |
| B-11 | 2 | PAOZZ | 5306-00-182-2023 | 88044 | AN5-4A | BOLT, MACHINE..... | EA | 7 |
| B-11 | 3 | PFOZZ | 2520-01-073-4085 | 19207 | 12275727 | SHIELD, TRANSMISSION..... | EA | 1 |
| B-11 | 4 | PAOFF | 2930-00-107-1221 | 19207 | 10865268 | SHROUD, PLATE, TURBOSUPERCHARGER, LEFT BANK..... | EA | 1 |
| B-11 | 5 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE..... | EA | 4 |
| B-11 | 6 | XAOZZ | | 19207 | 11683977 | SHROUD..... | EA | 1 |
| B-11 | 7 | PAOZZ | 5325-00-276-6089 | 88044 | AN931-9-13 | GROMMET, NONMETALLIC..... | EA | 2 |
| B-11 | 8 | PFOZZ | 2815-00-410-1131 | 19207 | 11683977 | SHROUD, DIESEL ENGINE..... | EA | 1 |
| B-11 | 9 | PAOFF | 2815-00-177-8216 | 19207 | 10865267 | PLATE, SHROUD, TURBOSUPERCHARGER, RIGHT BANK..... | EA | 1 |
| B-11 | 10 | XAFZZ | | 19207 | 10882760 | PLATE..... | EA | 1 |
| B-11 | 11 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE..... | EA | 4 |
| B-11 | 12 | PAOZZ | 5310-00-088-0553 | 96906 | MS21044N5 | NUT, SELF-LOCKING..... | EA | 7 |
| B-11 | 13 | PFOZZ | 2930-00-998-4724 | 19207 | 10865277 | PLATE, ENGINE SHROUD (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-11 | 13 | PFOZZ | 2590-01-152-8806 | 19207 | 12314598 | PLATE, ENGINE SHROUD (USE WITH 2CA AND 2DA ENGINES)..... | EA | 1 |
| B-11 | 14 | PFOZZ | 2930-00-453-5376 | 19207 | 10865247 | PLATE, SHROUD, TRANSMISSION..... | EA | 1 |
| B-11 | 15 | PFOZZ | 2990-00-193-8211 | 19207 | 11641919 | PLATE, TRANSMISSION..... | EA | 1 |
| B-11 | 16 | PFOFF | 2930-00-436-3208 | 19207 | 10865250 | SHROUD, COOLING, ENGINE, LEFT BANK..... | EA | 1 |
| B-11 | 17 | XAFZZ | | 19207 | 10865251 | SHROUD..... | EA | 1 |
| B-11 | 18 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE..... | EA | 3 |
| B-11 | 19 | PAOZZ | 5305-00-019-2417 | 21450 | 192417 | SCREW, ASSEMBLED WASHER..... | EA | 10 |
| B-11 | 20 | PAOZZ | 5306-00-741-4584 | 19207 | 7414584 | BOLT, ASSEMBLED WASHER..... | EA | 16 |
| B-11 | 21 | PFOFF | 2815-00-398-6726 | 19207 | 11683942 | SHROUD, DIESEL ENGINE (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-11 | 21 | PFOFF | 2930-00-436-3197 | 19207 | 10865252 | SHROUD, COOLING ENGINE, (USE WITH 2CA AND 2DA ENGINES).. | EA | 1 |
| B-11 | 22 | XAFZZ | | 19207 | 11683942-1 | SHROUD (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-11 | 22 | XAFZZ | | 19207 | 10865252 | SHROUD (USE WITH 2CA AND 2DA ENGINE)..... | EA | 1 |
| B-11 | 23 | PAFZZ | 5310-00-486-0406 | 19207 | 11684093-1 | NUT, PLAIN, PLATE..... | EA | 3 |
| B-11 | 24 | PAOZZ | 5325-00-182-4707 | 19207 | 10935447 | GROMMET, NONMETALLIC..... | EA | 2 |

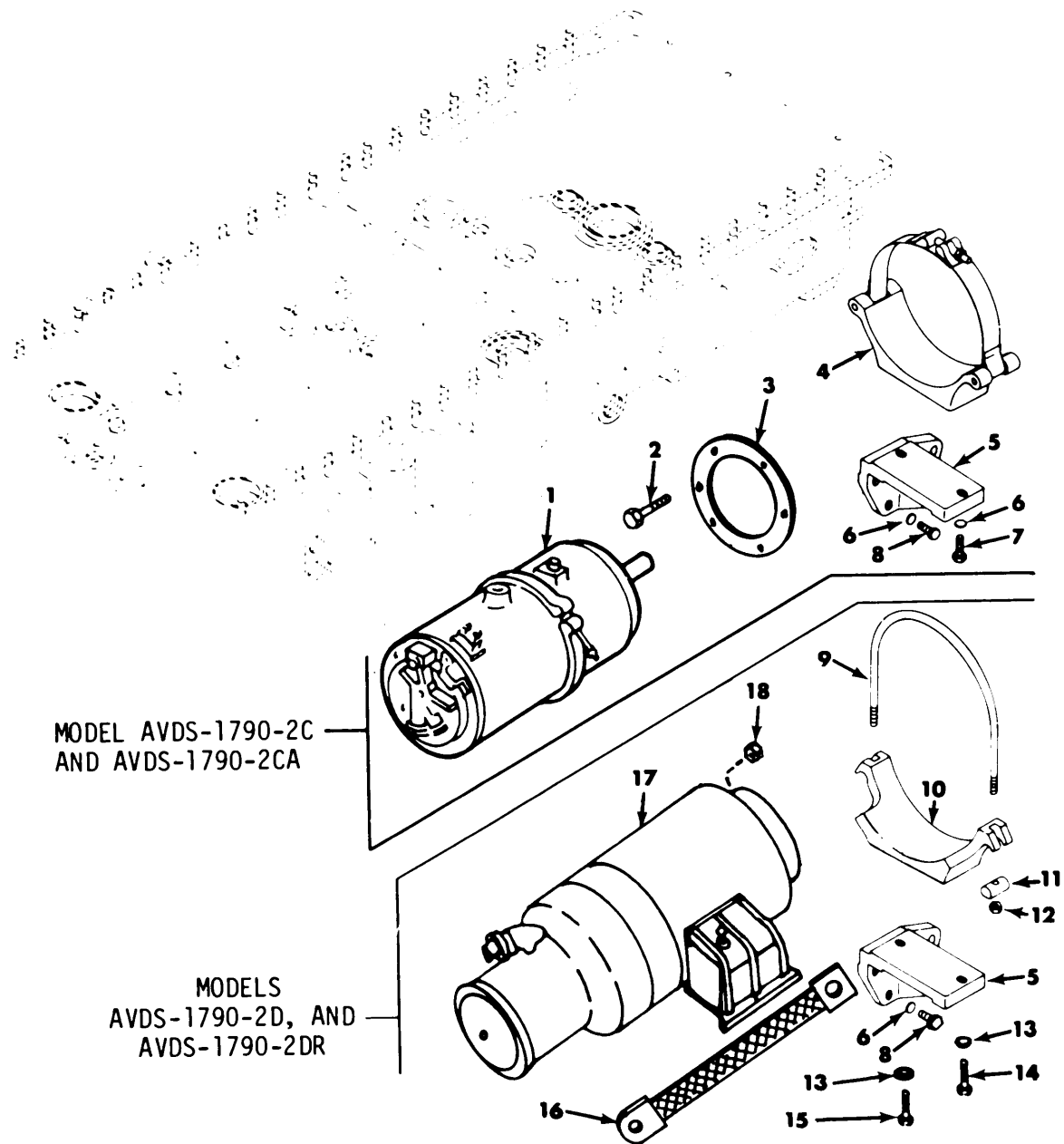


FIGURE B-12. ENGINE GENERATOR, CRADLE, BRACKET, AND ASSOCIATED PARTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 06: ELECTRICAL SYSTEM | | | |
| | | | | | | GROUP 0601: GENERATOR-ENGINE GENERATOR, CRADLE, BRACKET, AND ASSOCIATED PARTS | | | |
| B-12 | 1 | PAOFD | 2920-00-441-8137 | 19207 | 11655469 | GENERATOR, ENGINE ACCESSORY..... | | EA | 1 |
| B-12 | 2 | PAOZZ | 5306-00-145-0876 | 96906 | MS35763-833 | BOLT, SELF-LOCKING..... | | EA | 6 |
| B-12 | 3 | PAOZZ | 5330-00-318-4127 | 19207 | 8666738 | GASKET..... | | EA | 1 |
| B-12 | 4 | PFOZZ | 5340-01-048-6052 | 19207 | 11684162 | CLAMP, LOOP..... | | EA | 1 |
| B-12 | 5 | PFOZZ | 2920-00-398-6540 | 19207 | 11685057 | BRACKET, ENGINE ACCESSORY GENERATOR..... | | EA | 1 |
| B-12 | 6 | PAOZZ | 5310-00-776-7318 | 19207 | 7767318 | WASHER, FLAT (USE WITH 2C ENGINE)..... | | EA | 4 |
| B-12 | 7 | XDOZZ | | 96906 | MS90727-65 | SCREW, CAP, HEXAGON..... | | EA | 2 |
| B-12 | 8 | PAOZZ | 5305-00-269-2806 | 96906 | MS90726-63 | SCREW, CAP, HEXAGON..... | | EA | 2 |
| B-12 | 9 | PAOZZ | 5306-00-413-4373 | 19207 | 10882750 | BOLT, U..... | | EA | 1 |
| B-12 | 10 | PFOZZ | 2590-01-145-4316 | 19207 | 12275797 | CRADLE, GENERATOR..... | | EA | 1 |
| B-12 | 11 | PAOZZ | 2920-00-455-5835 | 19207 | 10882765 | BAR, CLAMPING, GENERATOR..... | | EA | 2 |
| B-12 | 12 | PAOZZ | 5310-00-088-0553 | 96906 | MS21044N5 | NUT, SELF-LOCKING..... | | EA | 2 |
| B-12 | 13 | PAOZZ | 5310-00-776-7318 | 19207 | 7767318 | WASHER, FLAT..... | | EA | 2 |
| B-12 | 14 | PAOZZ | 5305-00-269-3242 | 96906 | MS90727-66 | SCREW, CAP, HEXAGON..... | | EA | 1 |
| B-12 | 15 | PAOZZ | 5305-00-914-6131 | 96906 | MS90727-65 | SCREW, CAP, HEXAGON..... | | EA | 1 |
| B-12 | 16 | PFOZZ | 2590-00-499-1782 | 19207 | 11682595 | LEAD, ELECTRICAL..... | | EA | 1 |
| B-12 | 17 | PAOFD | 2920-00-830-6660 | 19207 | 10889713 | GENERATOR, ENGINE..... | | EA | 1 |
| B-12 | 18 | PAOZZ | 5310-00-950-0039 | 96906 | MS21044N6 | NUT, SELF-LOCKING, HEXAGON..... | | EA | 6 |

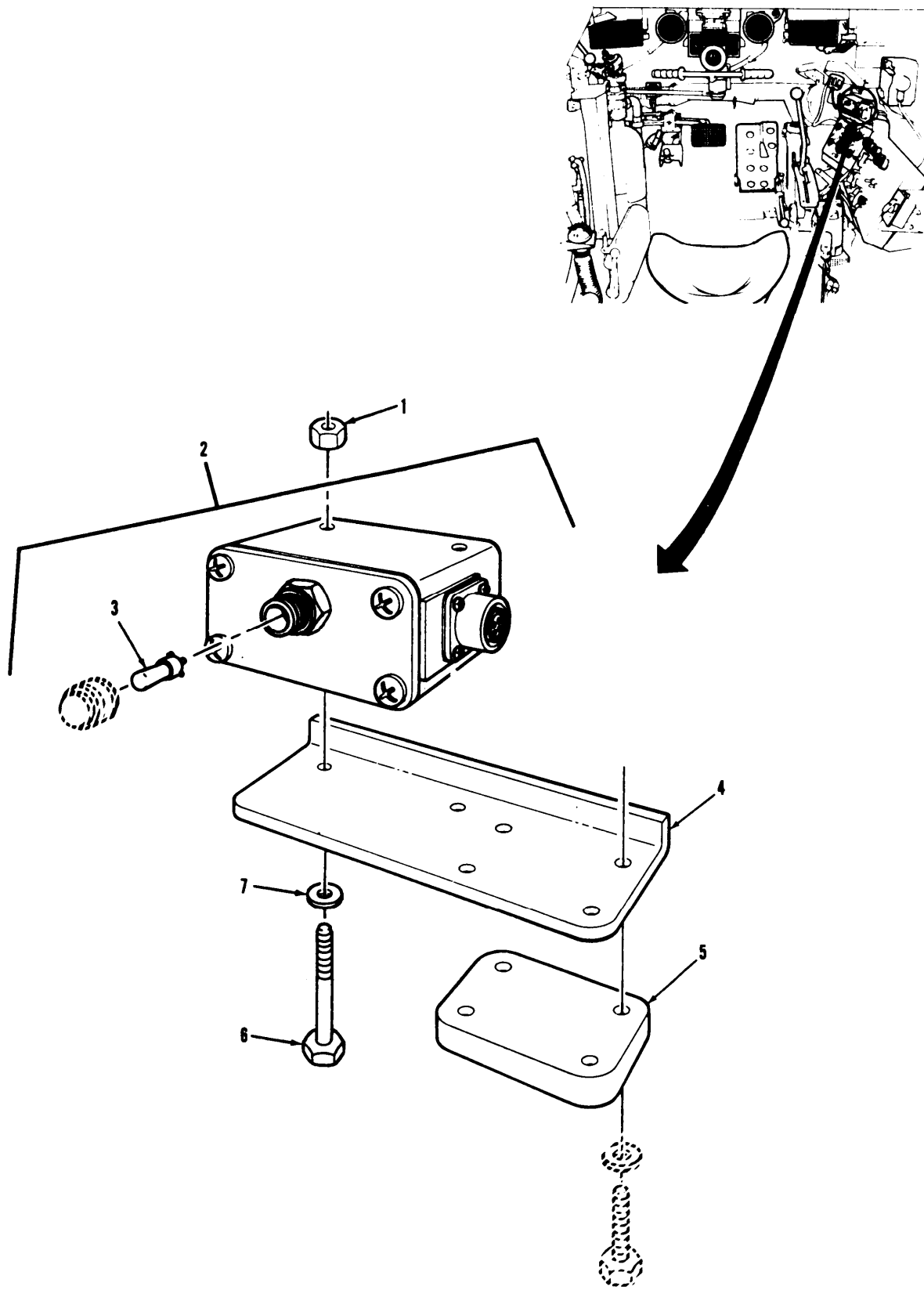


FIGURE B-13. ENGINE AIR CLEANER DUST DETECTOR BOX ASSEMBLY AND RELATED PARTS (M60A3).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 0608: MISCELLANEOUS ITEMS-ENGINE AIR CLEANER DUST DETECTOR BOX ASSEMBLY AND RELATED PARTS (M60A3) | | | |
| B-13 | 1 | PAOZZ | 5310-00-761-6882 | 96906 | MS51967-2 | NUT, PLAIN, HEXAGON..... | | EA | 2 |
| B-13 | 2 | PA000 | 2920-01-152-2385 | 19207 | 12325931 | BOX ASSEMBLY..... | | EA | 1 |
| B-13 | 3 | PACZZ | 6240-00-155-8707 | 96906 | MS25231-1819 | LAMP, INCAND..... | | EA | 1 |
| B-13 | 4 | PAOZZ | 5340-01-152-2514 | 19207 | 12325914 | BRACKET..... | | EA | 1 |
| B-13 | 5 | PAOZZ | 5365-01-152-2538 | 19207 | 12325915 | SPACER..... | | EA | 1 |
| B-13 | 6 | PAOZZ | 5305-00-071-2513 | 96906 | MS90728-16 | SCREW..... | | EA | 2 |
| B-13 | 7 | PAOZZ | 5310-00-550-1130 | 96906 | MS35333-40 | WASHER, LOCK..... | | EA | 2 |

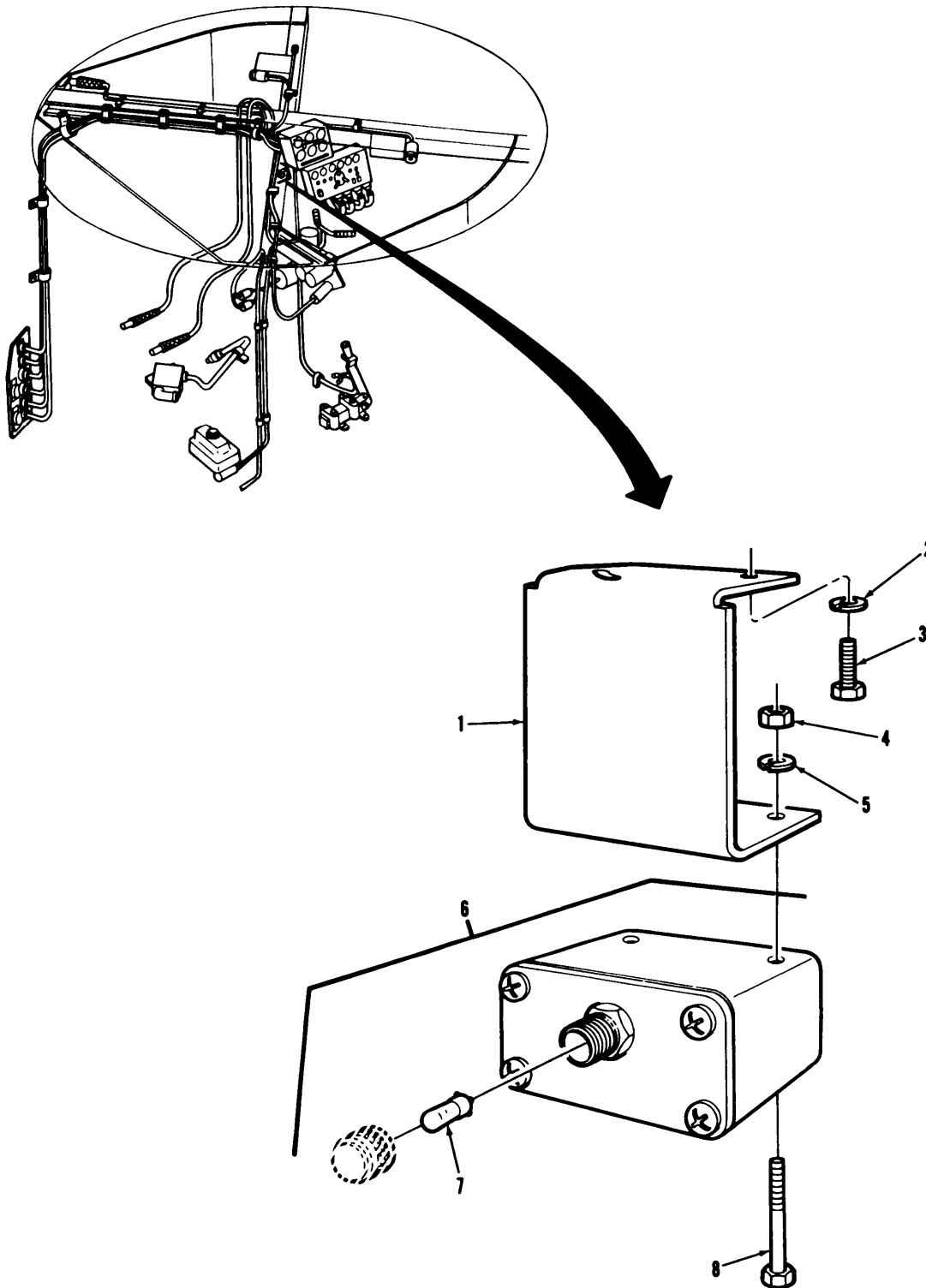


FIGURE B-14. ENGINE AIR CLEANER DUST DETECTOR BOX ASSEMBLY AND RELATED PARTS (M48A5AVLB AND M60A1AVLB).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0608: MISCELLANEOUS ITEMS-ENGINE AIR CLEANER DUST DETECTOR BOX ASSEMBLY AND RELATED PARTS (M48A5AVLB AND M60A1AVLB) | | |
| B-14 | 1 | PAOZZ | | 19207 | 12326097 | BRACKET..... | EA | 1 |
| B-14 | 2 | PAOZZ | 5310-00-550-1130 | 96906 | MS35333-40 | WASHER, LOCK..... | EA | 2 |
| B-14 | 3 | PAOZZ | 5305-00-068-7837 | 96906 | MS90728-5 | SCREW, CAP, HEXAGON..... | EA | 2 |
| B-14 | 4 | PAOZZ | 5310-00-761-6882 | 96906 | MS51967-2 | NUT, PLAIN, HEXAGON..... | EA | 2 |
| B-14 | 5 | PAOZZ | 5310-00-582-5965 | 96906 | MS35338-44 | WASHER, LOCK..... | EA | 2 |
| B-14 | 6 | PAOOO | 2920-01-152-2385 | 19207 | 12325931 | BOX ASSEMBLY..... | EA | 1 |
| B-14 | 7 | PACZZ | 6240-00-155-8707 | 96906 | MS25231-1819 | LAMP, INCAND..... | EA | 1 |
| B-14 | 8 | PAOZZ | 5305-00-071-2234 | 96906 | MS90725-17 | SCREW, CAP, HEXAGON..... | EA | 2 |

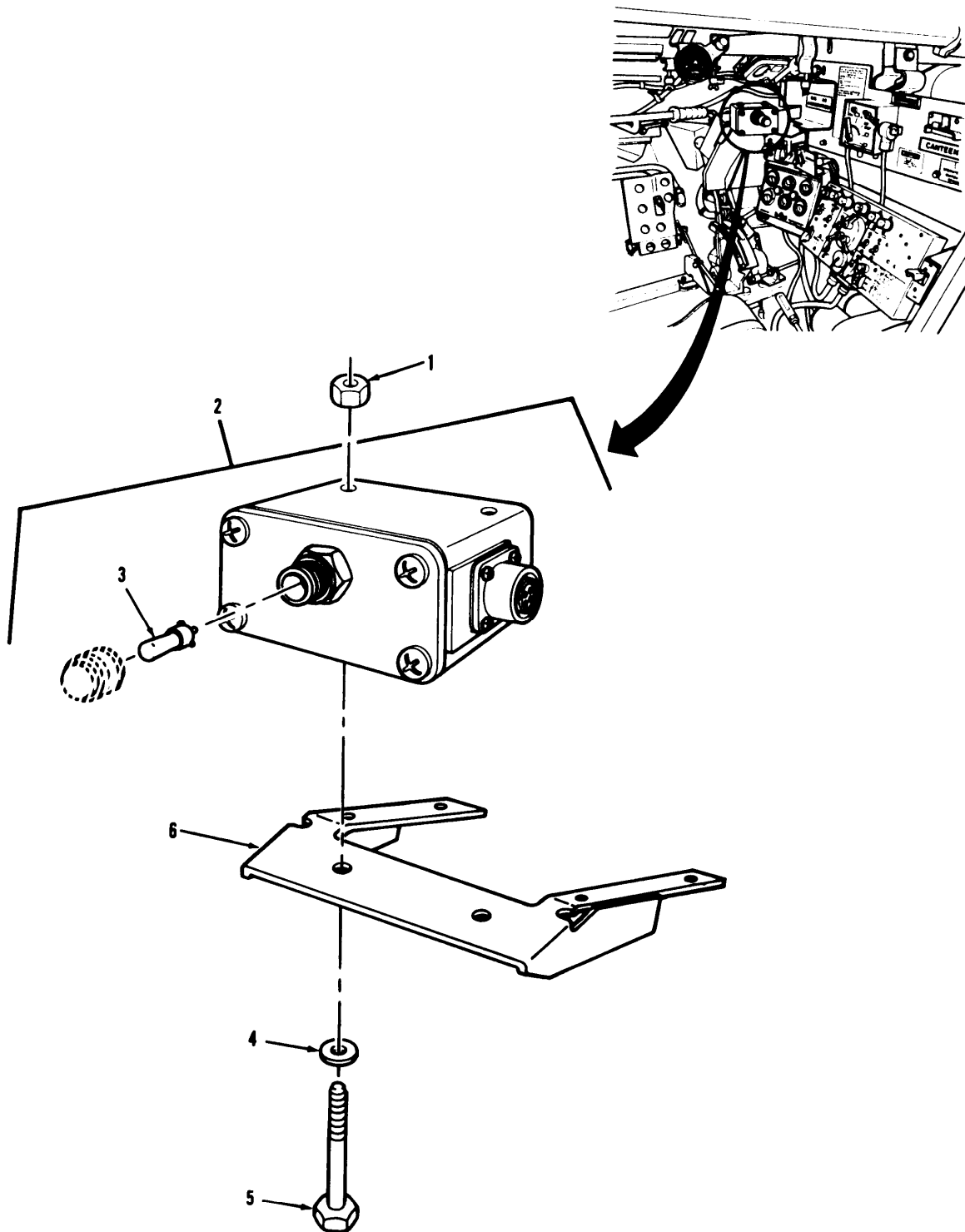


FIGURE B-15. ENGINE AIR CLEANER DUST DETECTOR BOX ASSEMBLY AND RELATED PARTS (M728).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0608: MISCELLANEOUS ITEMS-ENGINE AIR CLEANER DUST DETECTOR BOX ASSEMBLY AND RELATED PARTS (M728) | | |
| B-15 | 1 | PAOZZ | 5310-00-761-6882 | 96906 | MS51967-2 | NUT, PLAIN, HEXAGON..... | EA | 2 |
| B-15 | 2 | PAO00 | 2920-01-152-2385 | 19207 | 12325931 | BOX ASSEMBLY..... | EA | 1 |
| B-15 | 3 | PACZZ | 6240-00-155-8707 | 96906 | MS25231-1819 | LAMP, INCAND..... | EA | 1 |
| B-15 | 4 | PAOZZ | 5310-00-550-1130 | 96906 | MS35333-40 | WASHER, LOCK..... | EA | 2 |
| B-15 | 5 | PAOZZ | 5303-00-071-2513 | 96906 | MS90728-16 | SCREW..... | EA | 2 |
| B-15 | 6 | PAOZZ | | 19207 | 12326174 | BRACKET..... | EA | 1 |

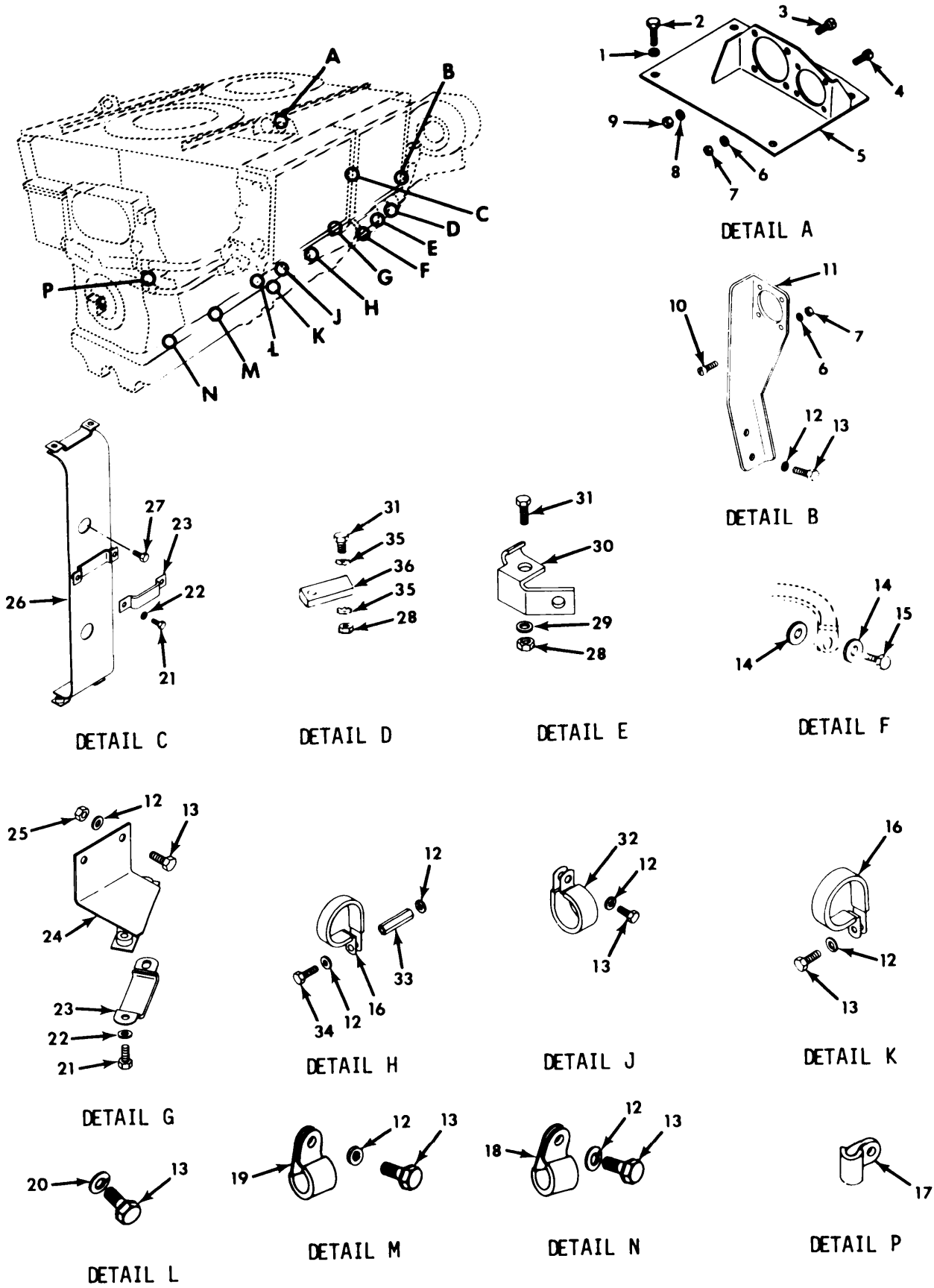


FIGURE B-16. ENGINE WIRING HARNESS BRACKETS AND CLAMPS (FIGURE 1 OF 3).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-ENGINE WIRING HARNESS BRACKETS AND CLAMPS (FIGURE 1 OF 3) | | |
| B-16 | 1 | PAOZZ | 5310-00-514-6674 | 96906 | MS35335-34 | WASHER, LOCK (USE WITH 2C AND 2D ENGINES)..... | | EA 4 |
| B-16 | 1 | PAOZZ | 5310-00-550-3503 | 96906 | MS35335-36 | WASHER, LOCK (USE WITH 2CA AND 2DA ENGINES)..... | | EA 3 |
| B-16 | 2 | PAOZZ | 5305-00-225-9091 | 96906 | MS90726-36 | SCREW, CAP, HEXAGON (USE WITH 2C AND 2D ENGINES)..... | | EA 4 |
| B-16 | 2 | PAOZZ | 5305-00-225-9091 | 96906 | MS90726-36 | SCREW, CAP, HEXAGON (USE WITH 2CA AND 2DA ENGINES)..... | | EA 3 |
| B-16 | 3 | PAOZZ | 5305-00-614-0274 | 96906 | MS35265-63 | SCREW, MACHINE (USE WITH 2C AND 2CA ENGINES)..... | | EA 4 |
| B-16 | 4 | PAOZZ | 5305-00-543-2752 | 96906 | MS35265-45 | SCREW, MACHINE (USE WITH 2C AND 2CA ENGINES)..... | | EA 4 |
| B-16 | 4 | PAOZZ | 5305-00-543-2752 | 96906 | MS35265-45 | SCREW, MACHINE (USE WITH 2D AND 2DA ENGINES)..... | | EA 8 |
| B-16 | 5 | PFOZZ | 2920-00-398-7097 | 19207 | 11673848 | SUPPORT, WIRING, GE (USE WITH 2C AND 2CA ENGINES)..... | | EA 1 |
| B-16 | 5 | PFOZZ | 2815-00-410-1150 | 19207 | 11682725 | BRACKET, MOUNTING (USE WITH 2D AND 2DA ENGINES)..... | | EA 1 |
| B-16 | 6 | PAOZZ | 5310-00-045-3299 | 19207 | 7347734 | WASHER, LOCK (USE WITH 2C AND 2CA ENGINES)..... | | EA 8 |
| B-16 | 6 | PAOZZ | 5310-00-045-3299 | 19207 | 7347734 | WASHER, LOCK (USE WITH 2D AND 2DA ENGINES)..... | | EA 12 |
| B-16 | 7 | PAOZZ | 5310-00-934-9757 | 96906 | MS35649-282 | NUT, PLAIN, HEXAGON (USE WITH 2C AND 2CA ENGINES)..... | | EA 8 |
| B-16 | 7 | PAOZZ | 5310-00-934-9757 | 96906 | MS35649-282 | NUT, PLAIN, HEXAGON (USE WITH 2D AND 2DA ENGINES)..... | | EA 12 |
| B-16 | 8 | PAOZZ | 5310-00-045-3296 | 96906 | MS35338-43 | WASHER, LOCK (USE WITH 2C AND 2CA ENGINES)..... | | EA 4 |
| B-16 | 9 | PAOZZ | 5310-00-934-9758 | 96906 | MS35648-202 | NUT, PLAIN, HEXAGON (USE WITH 2C AND 2CA ENGINES)..... | | EA 4 |
| B-16 | 10 | PAOZZ | 5305-00-984-6193 | 96906 | MS35206-245 | SCREW, MACHINE..... | | EA 4 |
| B-16 | 11 | PFOZZ | 2920-00-466-7464 | 19207 | 11673851 | BRACKET, MOUNTING..... | | EA 1 |
| B-16 | 12 | PAOZZ | 5310-00-407-9566 | 19207 | 7410218 | WASHER, LOCK..... | | EA 10 |
| B-16 | 13 | PAOZZ | 5306-00-050-1238 | 96906 | MS90727-32 | BOLT, MACHINE..... | | EA 10 |
| B-16 | 14 | PAOZZ | 5310-00-776-7318 | 19207 | 7767318 | WASHER, FLAT (USE WITH 2C AND 2CA ENGINES)..... | | EA 4 |
| B-16 | 14 | PAOZZ | 5310-00-776-7318 | 19207 | 7767318 | WASHER, FLAT (USE WITH 2D AND 2DA ENGINES)..... | | EA 2 |
| B-16 | 15 | PAOZZ | 5305-00-269-2808 | 96906 | MS90726-65 | SCREW, CAP, HEXAGON (USE WITH 2C AND 2CA ENGINES)..... | | EA 2 |
| B-16 | 15 | PAOZZ | 5305-00-269-2808 | 96906 | MS90726-65 | SCREW, CAP, HEXAGON (USE WITH 2D AND 2DA ENGINES)..... | | EA 1 |
| B-16 | 16 | PAOZZ | 5340-00-178-6077 | 19207 | 7057332-3 | CLAMP, LOOP..... | | EA 2 |
| B-16 | 17 | PAOZZ | 5340-00-057-3034 | 96906 | MS21333-110 | CLAMP, LOOP..... | | EA 1 |
| B-16 | 18 | PAOZZ | 5340-00-057-3043 | 96906 | MS21333-112 | CLAMP, LOOP..... | | EA 1 |
| B-16 | 19 | PAOZZ | 5340-00-988-1162 | 96906 | MS21333-113 | CLAMP, LOOP (USE WITH 2C AND 2CA ENGINES)..... | | EA 1 |
| B-16 | 19 | PAOZZ | 5340-00-988-1162 | 96906 | MS21333-113 | CLAMP, LOOP (USE WITH 2D AND 2DA ENGINES)..... | | EA 2 |
| B-16 | 20 | PAOZZ | 5310-00-167-0721 | 96906 | MS35333-41 | WASHER, LOCK..... | | EA 2 |
| B-16 | 21 | PAOZZ | 5305-00-068-0500 | 96906 | MS90725-3 | SCREW, CAP, HEXAGON..... | | EA 8 |
| B-16 | 22 | PAOZZ | 5310-00-582-5965 | 19207 | 11657469-3 | WASHER, LOCK..... | | EA 8 |
| B-16 | 23 | PAOZZ | 5340-01-030-8726 | 19207 | 11684276-1 | STRAP, RETAINING..... | | EA 4 |
| B-16 | 24 | PFOZZ | 2815-00-394-9701 | 19207 | 11673853 | BRACKET, MOUNTING..... | | EA 1 |
| B-16 | 25 | PAOZZ | 5310-00-088-0553 | 96906 | MS21044N5 | NUT, SELF-LOCKING..... | | EA 2 |
| B-16 | 26 | PAOZZ | 2815-00-397-3283 | 19207 | 11673852 | BRACKET, MOUNTING..... | | EA 1 |
| B-16 | 27 | PAOZZ | 5305-00-042-5592 | 24617 | 425592 | SCREW, ASSEMBLED WASHER..... | | EA 2 |
| B-16 | 28 | PAOZZ | 5310-00-732-0558 | 96906 | MS51967-8 | NUT, PLAIN, HEXAGON (USE WITH 2C AND 2CA ENGINES)..... | | EA 2 |
| B-16 | 29 | PAOZZ | 5310-00-637-9541 | 12603 | 23E06 | WASHER, LOCK (USE WITH 2C AND 2CA ENGINES)..... | | EA 1 |
| B-16 | 30 | PAOZZ | 6150-00-476-0381 | 19207 | 11673850 | BUS, CONDUCTOR (USE WITH 2C AND 2CA ENGINES)..... | | EA 1 |
| B-16 | 31 | PAOZZ | 5305-00-269-3213 | 96906 | MS90725-62 | SCREW, CAP, HEXAGON (USE WITH 2C AND 2CA ENGINES)..... | | EA 2 |
| B-16 | 32 | PAOZZ | 5340-00-959-8422 | 19207 | 10863816 | CLAMP, LOOP..... | | EA 2 |
| B-16 | 33 | PAOZZ | 5340-01-081-1686 | 19207 | 12254369 | POST, ELECTRICAL-ME..... | | EA 1 |
| B-16 | 34 | PAOZZ | 5306-00-225-9088 | 96906 | MS90726-33 | BOLT, MACHINE..... | | EA 1 |
| B-16 | 35 | PAOZZ | 5310-00-061-1258 | 96906 | MS45904-76 | WASHER, LOCK (USE WITH 2C AND 2CA ENGINES)..... | | EA 2 |
| B-16 | 36 | PAOZZ | 6150-00-476-0371 | 19207 | 11673856 | BUS, CONDUCTOR (USE WITH 2C AND 2CA ENGINES)..... | | EA 1 |

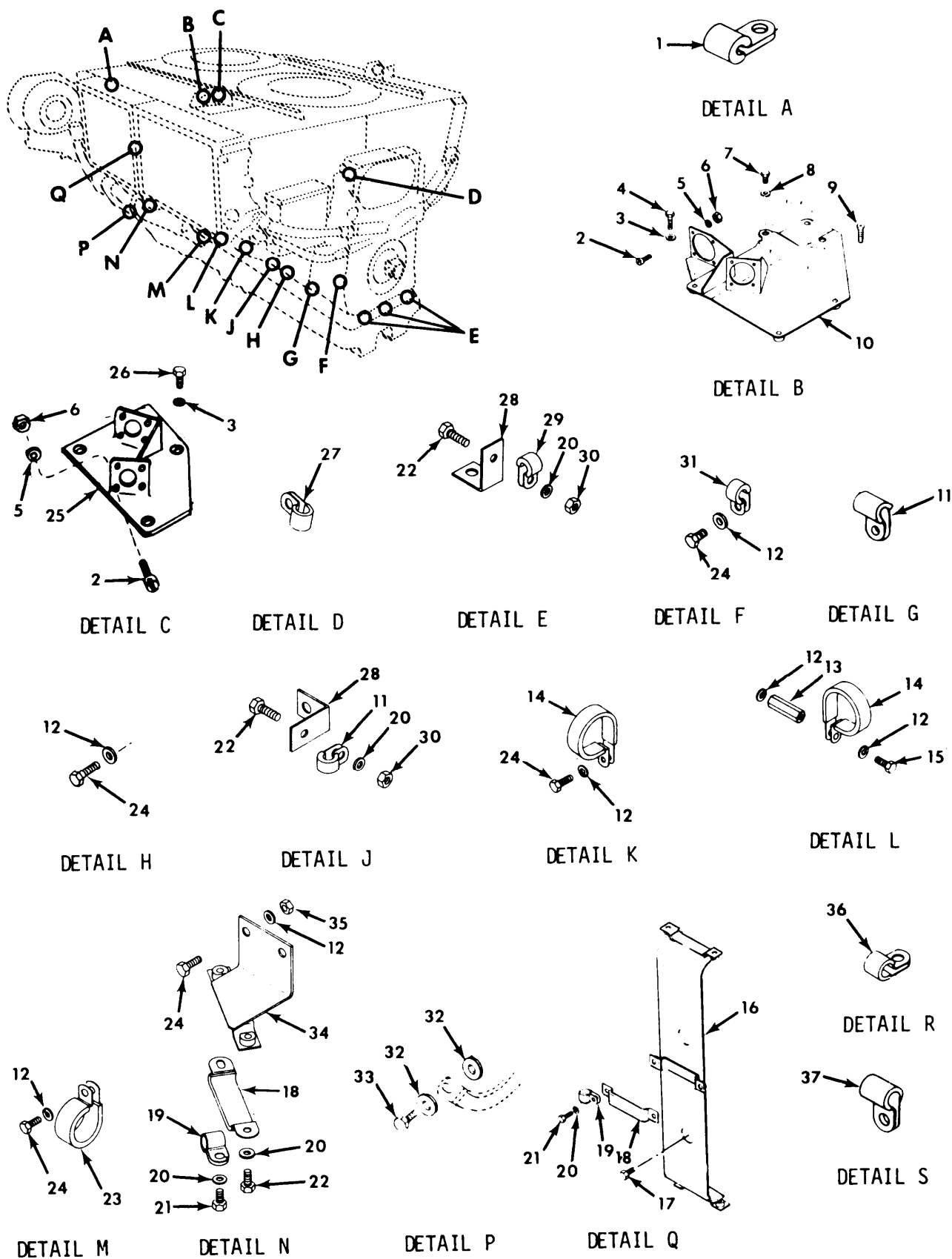
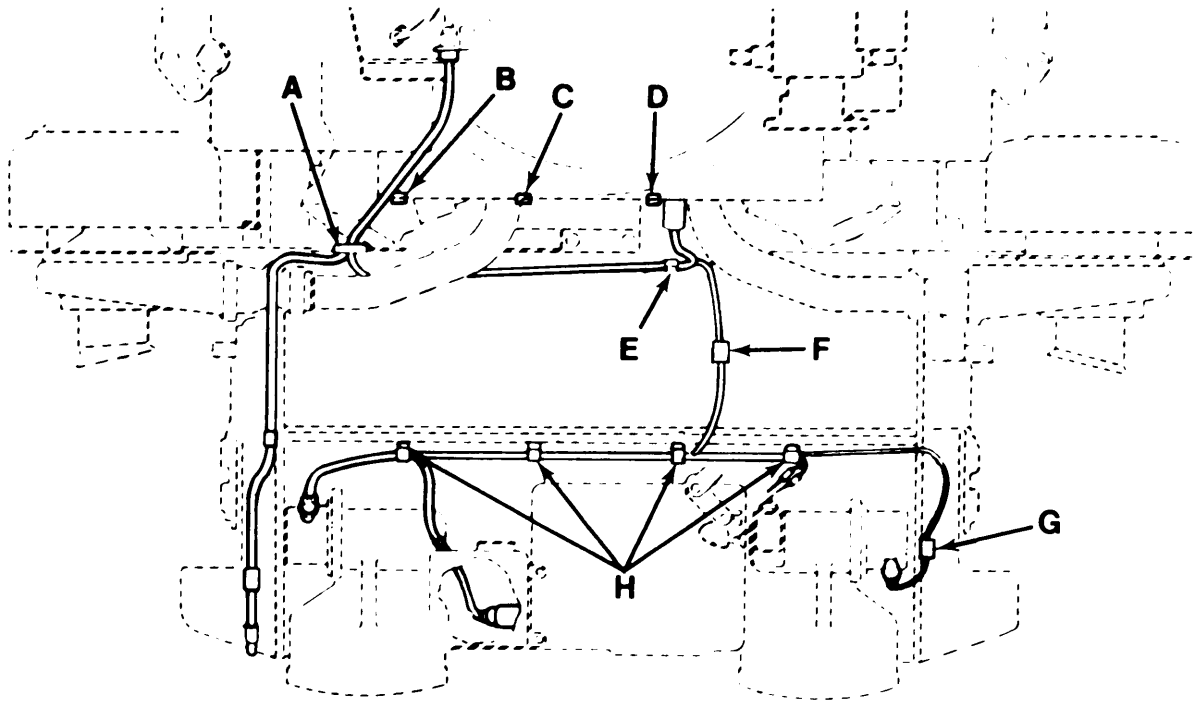


FIGURE B-17. ENGINE WIRING HARNESS BRACKETS AND CLAMPS (FIGURE 2 OF 3).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-ENGINE WIRING HARNESS BRACKETS AND CLAMPS (FIGURE 2 OF 3) | | | |
| B-17 | 1 | PAOZZ | 5340-00-057-3025 | 96906 | MS21333-108 | CLAMP, LOOP (USE WITH 2C AND 2D ENGINES)..... | | EA | 5 |
| B-17 | 2 | PAOZZ | 5305-00-614-0274 | 96906 | MS35265-63 | SCREW, MACHINE..... | | EA | 8 |
| B-17 | 3 | PAOZZ | 5310-00-514-6674 | 96906 | MS35335-34 | WASHER, LOCK..... | | EA | 4 |
| B-17 | 4 | PAOZZ | 5306-00-051-4077 | 96906 | MS90727-35 | BOLT, MACHINE..... | | EA | 3 |
| B-17 | 5 | PAOZZ | 5310-00-045-3296 | 96906 | MS35338-43 | WASHER, LOCK..... | | EA | 8 |
| B-17 | 6 | PAOZZ | 5310-00-934-9758 | 96906 | MS35649-202 | NUT, PLAIN, HEXAGON..... | | EA | 8 |
| B-17 | 7 | PAOZZ | 5305-00-267-8953 | 96906 | MS90727-5 | SCREW, CAP, HEXAGON..... | | EA | 2 |
| B-17 | 8 | PAOZZ | 5310-00-550-1130 | 96906 | MS35333-40 | WASHER, LOCK..... | | EA | 2 |
| B-17 | 9 | PAOZZ | 5305-00-993-1206 | 96906 | MS24668-22 | SCREW, CAP, SOCKET..... | | EA | 2 |
| B-17 | 10 | PFOZZ | 2920-01-065-2016 | 19207 | 12254374 | BRACKET, MOUNTING..... | | EA | 1 |
| B-17 | 11 | PAOZZ | 5340-00-057-3037 | 96906 | MS21333-111 | CLAMP, LOOP..... | | EA | 2 |
| B-17 | 12 | PAOZZ | 5310-00-407-9566 | 19207 | 7410218 | WASHER, LOCK..... | | EA | 9 |
| B-17 | 13 | PAOZZ | 5340-01-081-1686 | 19207 | 12254369 | POST, ELECTRICAL-ME..... | | EA | 1 |
| B-17 | 14 | PAOZZ | 5340-01-077-1501 | 19207 | 8338503 | CLAMP, LOOP..... | | EA | 2 |
| B-17 | 15 | PAOZZ | 5306-00-225-9088 | 96906 | MS90726-33 | BOLT, MACHINE..... | | EA | 1 |
| B-17 | 16 | PFOZZ | 2815-00-475-8216 | 19207 | 11673855 | BRACKET, MOUNTING..... | | EA | 1 |
| B-17 | 17 | PAOZZ | 5305-00-042-5592 | 24617 | 425592 | SCREW, ASSEMBLED WASHER..... | | EA | 2 |
| B-17 | 18 | PAOZZ | 5340-01-030-6928 | 19207 | 11684276-2 | STRAP, RETAINING..... | | EA | 4 |
| B-17 | 19 | PAOZZ | 5340-00-088-1254 | 96906 | MS21333-104 | CLAMP, LOOP..... | | EA | 4 |
| B-17 | 20 | PAOZZ | 5310-00-582-5965 | 19207 | 11657469-3 | WASHER, LOCK..... | | EA | 8 |
| B-17 | 21 | PAOZZ | 5305-00-225-3838 | 96906 | MS90725-4 | SCREW, CAP, HEXAGON..... | | EA | 4 |
| B-17 | 22 | PAOZZ | 5305-00-068-0500 | 96906 | MS90725-3 | SCREW, CAP, HEXAGON..... | | EA | 8 |
| B-17 | 23 | PAOZZ | 5340-00-959-8422 | 19207 | 10863816 | CLAMP, LOOP..... | | EA | 2 |
| B-17 | 24 | PAOZZ | 5306-00-050-1238 | 96906 | MS90727-32 | BOLT, MACHINE..... | | EA | 7 |
| B-17 | 25 | PAOZZ | 2815-00-397-3311 | 19207 | 11673847 | BRACKET, MOUNTING, (USE WITH 2C AND 2D ENGINES)..... | | EA | 1 |
| B-17 | 26 | PAOZZ | 5305-00-225-9091 | 96906 | MS90726-36 | SCREW, CAP, HEXAGON (USE WITH 2C AND 2D ENGINES)..... | | EA | 4 |
| B-17 | 27 | PAOZZ | 5340-00-057-3029 | 96906 | MS21333-118 | CLAMP, LOOP..... | | EA | 1 |
| B-17 | 28 | PAOZZ | 5340-00-107-4286 | 19207 | 10863598 | BRACKET, ANGLE..... | | EA | 4 |
| B-17 | 29 | PAOZZ | 5340-00-984-8540 | 96906 | MS21333-102 | CLAMP, LOOP..... | | EA | 3 |
| B-17 | 30 | XDOZZ | | 96906 | MS51967-2 | NUT, PLAIN, HEXAGON..... | | EA | 4 |
| B-17 | 31 | PAOZZ | 5340-00-057-3043 | 96906 | MS21333-112 | CLAMP, LOOP..... | | EA | 1 |
| B-17 | 32 | PAOZZ | 5310-00-776-7318 | 19207 | 7767318 | WASHER, FLAT..... | | EA | 2 |
| B-17 | 33 | PAOZZ | 5305-00-269-2808 | 96906 | MS90726-65 | SCREW, CAP, HEXAGON..... | | EA | 1 |
| B-17 | 34 | PAOZZ | 2815-00-394-9690 | 19207 | 11673854 | BRACKET, MOUNTING..... | | EA | 1 |
| B-17 | 35 | PAOZZ | 5310-00-088-0553 | 96906 | MS21044-N5 | NUT, SELF-LOCKING..... | | EA | 2 |
| B-17 | 36 | PAOZZ | 5340-00-057-3034 | 96906 | MS21333-3034 | CLAMP, LOOP (USE WITH 2CA AND 2DA ENGINES)..... | | EA | 1 |
| B-17 | 37 | PAOZZ | 5340-00-067-3868 | 96906 | MS21333-109 | CLAMP, LOOP (USE WITH 2CA AND 2DA ENGINES)..... | | EA | 3 |



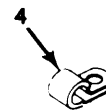
DETAIL A



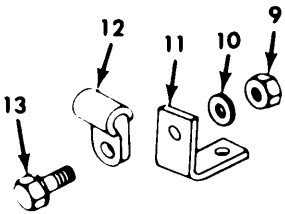
DETAIL B



DETAIL C



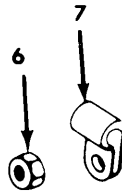
DETAIL D



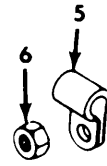
DETAIL E



DETAIL F



DETAIL G



DETAIL H

FIGURE B-18. ENGINE WIRING HARNESS BRACKETS AND CLAMPS (FIGURE 3 OF 3).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-ENGINE WIRING HARNESS BRACKETS AND CLAMPS (FIGURE 3 OF 3) | | | |
| B-18 | 1 | PAOZZ | 5325-00-290-1960 | 96906 | MS35489-27 | GROMMET, NONMETALLI | | EA | 1 |
| B-18 | 2 | PAOZZ | 5340-00-833-8476 | 96906 | MS21333-122 | CLAMP, LOOP | | EA | 1 |
| B-18 | 3 | PAOZZ | 5340-00-735-1617 | 19207 | 7351617 | CLAMP, LOOP | | EA | 2 |
| B-18 | 4 | PAOZZ | 5340-00-057-3025 | 96906 | MS21333-108 | CLAMP, LOOP (USE WITH 2CA AND 2DA ENGINES) | | EA | 1 |
| B-18 | 5 | PAOZZ | 5340-00-281-4425 | 19207 | 7351807 | CLAMP, LOOP | | EA | 4 |
| B-18 | 6 | XDOZZ | | 96906 | MS51967-2 | NUT, PLAIN, HEXAGON | | EA | 1 |
| B-18 | 7 | PAOZZ | 5340-00-088-1255 | 96906 | MS21333-96 | CLAMP, LOOP (USE WITH 2CA AND 2DA ENGINES) | | EA | 1 |
| B-18 | 8 | PAOZZ | 5340-00-809-1490 | 96906 | MS21333-98 | CLAMP, LOOP (USE WITH 2CA AND 2DA ENGINES) | | EA | 1 |
| B-18 | 9 | PAOZZ | 5310-00-489-5663 | 96906 | MS27151-24 | NUT, STAMPED | | EA | 6 |
| B-18 | 10 | PAOZZ | 5310-00-582-5965 | 19207 | 11657469-3 | WASHER, LOCK | | EA | 1 |
| B-18 | 11 | PAOZZ | 5340-00-107-4286 | 19207 | 10863598 | BRACKET, ANGLE | | EA | 1 |
| B-18 | 12 | PAOZZ | 5340-00-984-8540 | 96906 | MS21333-102 | CLAMP, LOOP | | EA | 1 |
| B-18 | 13 | PAOZZ | 5305-00-068-0500 | 96906 | MS90725-3 | SCREW, CAP, HEXAGON | | EA | 1 |

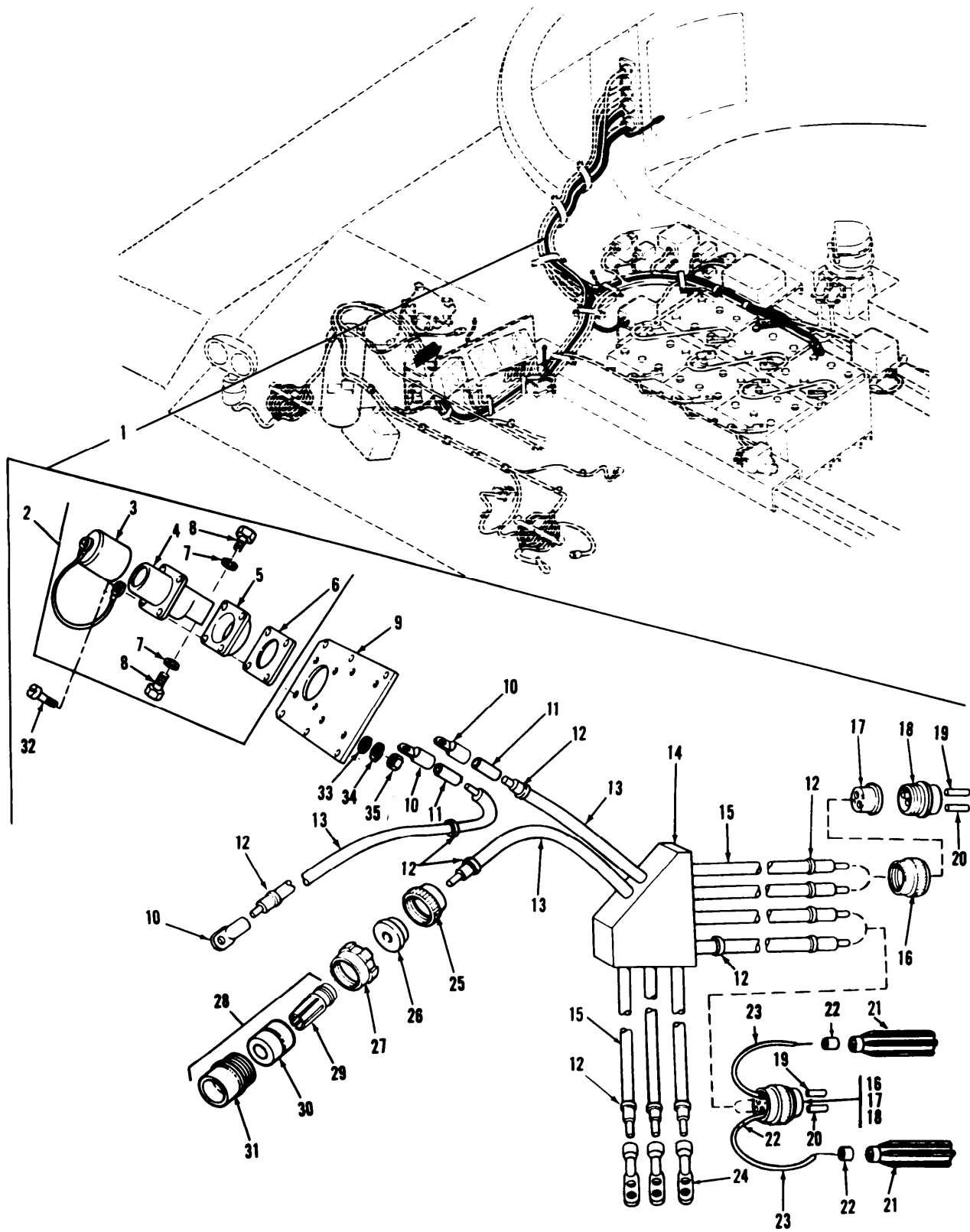


FIGURE B-19. BATTERY SLAVE AND STARTER RELAY CABLE ASSEMBLY (2CA ENGINE).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------------------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-BATTERY SLAVE AND STARTER RELAY CABLE ASSEMBLY (2CA ENGINE) | | |
| B-19 | 1 | PA000 | 2920-01-152-2560 | 19207 | 12325932 | CABLE ASSEMBLY..... | EA | 1 |
| B-19 | 2 | PA000 | 5935-01-059-0117 | 19207 | 11674728 | RECEPTACLE ASSEMBLY..... | EA | 1 |
| B-19 | 3 | PAOZZ | 5340-01-059-0114 | 19207 | 11675004 | COVER..... | EA | 1 |
| B-19 | 4 | XAOZZ | | 19207 | 11682345 | RECEPTACLE..... | EA | 1 |
| B-19 | 5 | PAOZZ | 5330-01-059-4286 | 19207 | 11674729 | GASKET..... | EA | 1 |
| B-19 | 6 | PAOZZ | 5970-01-044-8391 | 19207 | 11674730 | INSULATOR..... | EA | 1 |
| B-19 | 7 | PAOZZ | 5310-00-637-9541 | 96906 | MS35338-46 | WASHER, LOCK..... | EA | 2 |
| B-19 | 8 | PAOZZ | 5305-00-269-2800 | 96906 | MS90726-57 | SCREW, CAP, HEX HEAD..... | EA | 2 |
| B-19 | 9 | PAOZZ | 5935-01-062-5653 | 19207 | 12257999 | PLATE, RECEPTACLE..... | EA | 1 |
| B-19 | 10 | PAOZZ | 5940-00-808-9212 | 96906 | MS35446-7 | TERMINAL, LUG..... | EA | 3 |
| B-19 | 11 | MOOZZ | | 81349 | MILR46846-TYPE5- 1.50ID-BLACK | INSULATION SLEEVING (MAKE FROM MILR46846-5-1.50)..... | FT | V |
| B-19 | 12 | PAOZZ | 9905-00-893-3570 | 81349 | M43436/1-3 | BAND MARKER..... | EA | 12 |
| B-19 | 13 | MOOZZ | | 81349 | M13486/1-15 | CABLE, ELECTRICAL (MAKE FROM NSN 6145-00-254-6117)..... | FT | V |
| B-19 | 14 | XAOZZ | | 19207 | 12257172 | BUS BAR ASSEMBLY..... | EA | 1 |
| B-19 | 15 | MOOZZ | | 81349 | M13486/1-14 | CABLE, ELECTRICAL (MAKE FROM NSN 6145-00-705-6674)..... | FT | V |
| B-19 | 16 | PAOZZ | 5975-00-752-2746 | 19207 | 8395482 | NUT, COUPLING, ELEC..... | EA | 2 |
| B-19 | 17 | PAOZZ | 5365-00-678-4258 | 19207 | 8395483 | BUSHING, RUBBER..... | EA | 2 |
| B-19 | 18 | PAOZZ | 5935-00-107-1275 | 19207 | 11602731 | CONNECTOR, PLUG..... | EA | 2 |
| B-19 | 19 | PAOZZ | 9510-01-104-8931 | 19207 | 8724768 | ROD..... | EA | V |
| B-19 | 20 | PAOZZ | 9390-00-180-7289 | 19207 | 8724763 | ROD, NONMETALLIC..... | EA | V |
| B-19 | 21 | PAOZZ | 5935-00-115-2307 | 96906 | MS27144-2 | CONNECTOR, PLUG, EL..... | EA | 2 |
| B-19 | 22 | PAOZZ | 9905-00-752-4649 | 81349 | M13436/1-1 | BAND MARKER..... | EA | 3 |
| B-19 | 23 | MOOZZ | | 81349 | M13486/1-5 | WIRE, ELECTRICAL (MAKE FROM NSN 6145-00-152-6499)..... | FT | V |
| B-19 | 24 | PAOZZ | 5940-00-030-7275 | 19207 | 11676228 | TERMINAL, LUG..... | EA | 3 |
| B-19 | 25 | PAOZZ | 5935-00-333-9414 | 19207 | 7723308 | CONNECTOR..... | EA | 1 |
| B-19 | 26 | PAOZZ | 5365-00-318-8184 | 19207 | 8376776 | GROMMET..... | EA | 1 |
| B-19 | 27 | PAOZZ | 5310-00-655-9860 | 19207 | 8701325 | NUT, SLEEVE..... | EA | 1 |
| B-19 | 28 | PA000 | 5935-00-686-9374 | 77820 | 60-42722-7S | CONNECTOR..... | EA | 1 |
| B-19 | 29 | XAOZZ | | 19207 | 8701309 | SHELL, PLUG..... | EA | 1 |
| B-19 | 30 | PAOZZ | 5999-00-771-6523 | 19207 | 7716523 | CONNECTOR..... | EA | 1 |
| B-19 | 31 | PAOZZ | 5935-00-089-7917 | 19207 | 7716669 | INSERT, ELECTRICAL..... | EA | 1 |
| B-19 | 32 | PAOZZ | 5305-00-240-6668 | 96906 | MS51849-78 | SCREW, MACHINE..... | EA | 4 |
| B-19 | 33 | PAOZZ | 5310-00-014-5850 | 96906 | MS27183-42 | WASHER, FLAT..... | EA | 4 |
| B-19 | 34 | PAOZZ | 5310-00-045-3296 | 96906 | MS35338-43 | WASHER, LOCK..... | EA | 4 |
| B-19 | 35 | PAOZZ | 5310-00-934-9758 | 96906 | MS35649-202 | NUT, PLAIN..... | EA | 4 |

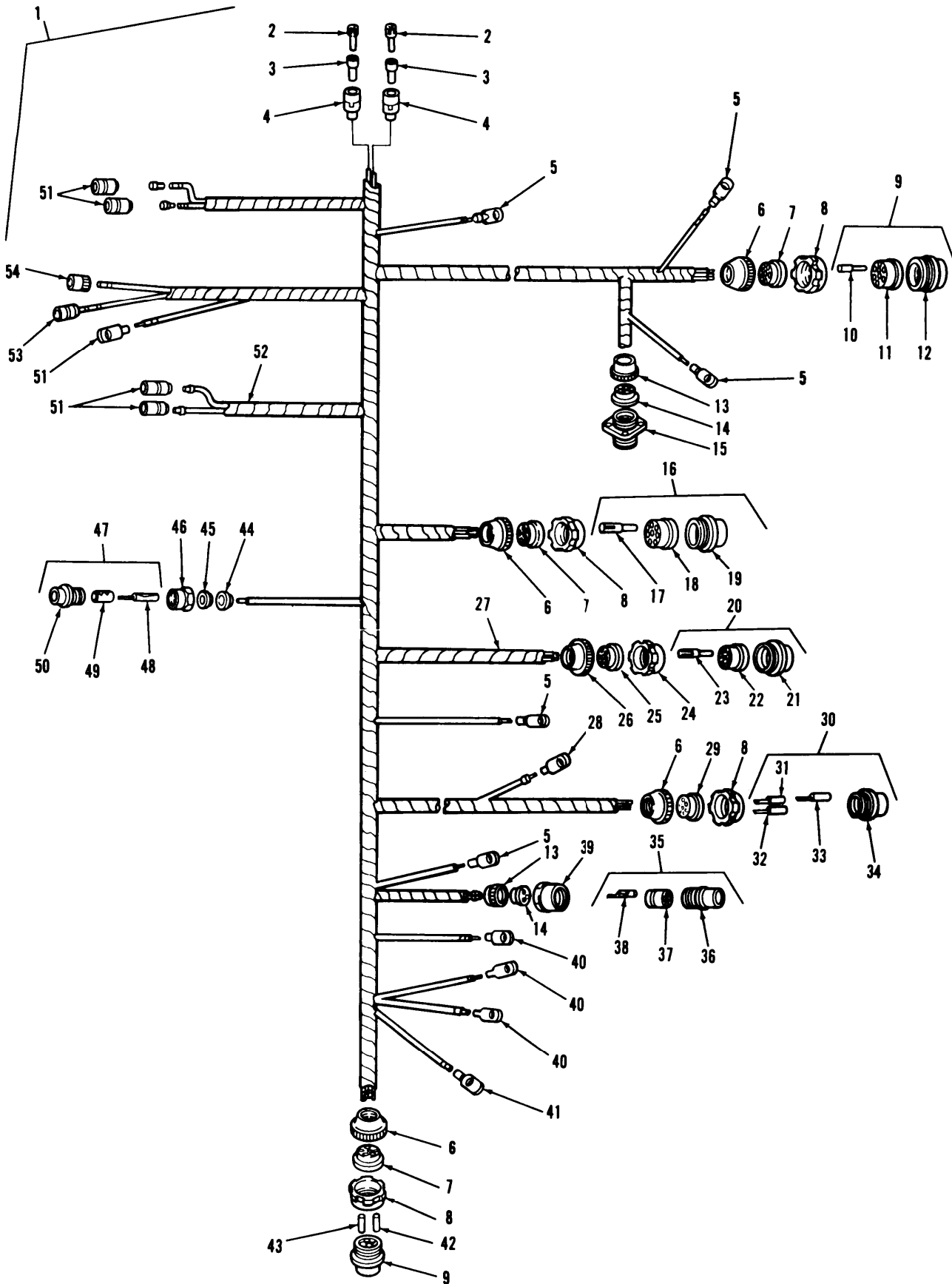


FIGURE B-20. FRONT MASTER CONTROL HARNESS ASSEMBLY (2CA ENGINE).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|---------------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-FRONT MASTER CONTROL HARNESS ASSEMBLY (2CA ENGINE) | | |
| B-20 | 1 | PA000 | 2920-01-152-2559 | 19207 | 12325926 | WIRING HARNESS ASSEMBLY..... | EA | 1 |
| B-20 | 2 | PAOZZ | 1015-00-798-2997 | 19207 | 7982997 | TERMINAL (OPTIONAL WITH P/N 8338564)..... | EA | 2 |
| B-20 | 2 | PAOZZ | 5940-00-399-6676 | 19207 | 8338564 | TERMINAL (OPTIONAL WITH 7982997)..... | EA | 2 |
| B-20 | 3 | PAOZZ | 5970-00-833-8562 | 19207 | 8338562 | INSULATOR,BUSHING..... | EA | 2 |
| B-20 | 4 | PAOZZ | 5935-00-677-4444 | 19207 | 7064586 | INSERT,PLUG,ELEC..... | EA | 1 |
| B-20 | 5 | PAOZZ | 5940-00-705-6709 | 19207 | 7056709 | TERMINAL,LUG..... | EA | 5 |
| B-20 | 6 | PAOZZ | 5935-00-333-9414 | 19207 | 7723308 | CONNECTOR..... | EA | 4 |
| B-20 | 7 | PAOZZ | 5365-00-772-2322 | 19207 | 7722322 | BUSHING,RUBBER..... | EA | 3 |
| B-20 | 8 | PAOZZ | 5310-00-655-9860 | 19207 | 8701325 | NUT,SLEEVE..... | EA | 4 |
| B-20 | 9 | PA000 | 5935-00-686-2608 | 19207 | 8724244 | CONNECTOR ASSEMBLY..... | EA | 2 |
| B-20 | 10 | PAOZZ | 5999-00-485-8954 | 19207 | 7716520 | CONTACT,ELECTRICAL..... | EA | 8 |
| B-20 | 11 | PAOZZ | 5935-00-771-8192 | 19207 | 7723475 | BUSHING,RUBBER..... | EA | 1 |
| B-20 | 12 | XAOZZ | | 19207 | 8701309 | SHELL,PLUG..... | EA | 1 |
| B-20 | 13 | PAOZZ | 5935-00-772-3307 | 19207 | 7723307 | CONNECTOR..... | EA | 2 |
| B-20 | 14 | PAOZZ | 5935-00-772-2344 | 19207 | 7722344 | GROMMET..... | EA | 2 |
| B-20 | 15 | PAOZZ | 5935-00-772-0484 | 19207 | 7720484 | CONNECTOR,RCPT..... | EA | 1 |
| B-20 | 16 | PA000 | 5935-00-686-2606 | 19207 | 8724243 | CONNECTOR..... | EA | 1 |
| B-20 | 17 | PAOZZ | 5999-00-485-8955 | 19207 | 7716521 | CONNECTOR..... | EA | 8 |
| B-20 | 18 | XAOZZ | | 19207 | 7723474 | INSERT,ELECTRICAL..... | EA | 1 |
| B-20 | 19 | XAOZZ | | 19207 | 8701309 | SHELL,PLUG..... | EA | 1 |
| B-20 | 20 | PA000 | 5935-00-754-9083 | 19207 | 8724257 | CONNECTOR ASSEMBLY..... | EA | 1 |
| B-20 | 21 | XAOZZ | | 19207 | 8344537 | SHELL,ELECTRICAL..... | EA | 1 |
| B-20 | 22 | PAOZZ | 5935-00-257-1024 | 19207 | 7716683 | INSERT,ELECTRICAL..... | EA | 1 |
| B-20 | 23 | PAOZZ | 5999-00-485-8955 | 19207 | 7716521 | CONNECTOR..... | EA | 12 |
| B-20 | 24 | PAOZZ | 5975-00-771-6634 | 19207 | 7716634 | NUT..... | EA | 1 |
| B-20 | 25 | PAOZZ | 5365-00-090-5426 | 19207 | 7722333 | BUSHING,RUBBER..... | EA | 1 |
| B-20 | 26 | PAOZZ | 5310-00-393-6685 | 19207 | 7723309 | NUT,PLAIN,KNURLED..... | EA | 1 |
| B-20 | 27 | MOOZZ | | 19207 | M13486/1-3 | CABLE,ELECTRICAL (MAKE FROM NSN 6145-00-161-1609)..... | FT | V |
| B-20 | 28 | PAOZZ | 5935-00-462-6603 | 96906 | MS27142-2 | CONNECTOR,PLUG,ELEC..... | EA | 1 |
| B-20 | 29 | PAOZZ | 5365-00-772-2323 | 19207 | 7722323 | BUSHING,RUBBER..... | EA | 1 |
| B-20 | 30 | PA000 | 5935-00-811-0942 | 19207 | 8724246 | CONNECTOR,PLUG..... | EA | 1 |
| B-20 | 31 | PAOZZ | 5999-00-485-8954 | 19207 | 7716520 | CONTACT,ELECTRICAL..... | EA | 5 |
| B-20 | 32 | PAOZZ | 5999-00-113-2954 | 19207 | 7716658 | CONTACT,ELECTRICAL..... | EA | 1 |
| B-20 | 33 | PAOZZ | 5935-01-026-5900 | 19207 | 7716675 | INSERT..... | EA | 1 |
| B-20 | 34 | XAOZZ | | 19207 | 8701309 | SHELL PLUG..... | EA | 1 |
| B-20 | 35 | PA000 | 5935-00-686-2605 | 19207 | 8724231 | SHELL ASSEMBLY..... | EA | 1 |
| B-20 | 36 | PAOZZ | 5935-00-462-2913 | 19207 | 8344527 | SHELL,ELECTRICAL..... | EA | 1 |
| B-20 | 37 | PAOZZ | 5970-00-615-8884 | 19207 | 8344324 | INSULATOR,BUSHING..... | EA | 1 |
| B-20 | 38 | PAOZZ | 5999-00-485-8954 | 19207 | 7716520 | CONTACT,ELECTRICAL..... | EA | 3 |
| B-20 | 39 | PAOZZ | 5975-00-697-7769 | 19207 | 7527645 | NUT..... | EA | 1 |
| B-20 | 40 | PAOZZ | 5940-00-705-6707 | 19207 | 7056707 | TERMINAL,LUG..... | EA | 3 |
| B-20 | 41 | PAOZZ | 5940-00-705-6706 | 19207 | 7056706 | TERMINAL,LUG..... | EA | 1 |
| B-20 | 42 | PAOZZ | 9390-00-180-7289 | 19207 | 8724763 | NONMETALLIC ROD..... | EA | V |
| B-20 | 43 | PAOZZ | 9905-00-893-3570 | 81349 | M43436/1-3 | BAND MARKER..... | EA | 72 |
| B-20 | 44 | PAOZZ | 5935-00-333-3088 | 19207 | 7723306 | CONNECTOR..... | EA | 1 |
| B-20 | 45 | PAOZZ | 5365-00-772-2343 | 19207 | 7722343 | BUSHING,RUBBER..... | EA | 1 |
| B-20 | 46 | PAOZZ | 5975-00-697-6991 | 19207 | 7527643 | NUT..... | EA | 1 |
| B-20 | 47 | PA000 | 5935-00-686-2610 | 19207 | 8724199 | CONNECTOR ASSEMBLY..... | EA | 1 |
| B-20 | 48 | PAOZZ | 5999-00-485-8954 | 19207 | 7716520 | CONTACT,ELECTRICAL..... | EA | 1 |
| B-20 | 49 | PAOZZ | 5935-00-614-9136 | 19207 | 8720680 | INSERT,ELECTRICAL..... | EA | 1 |
| B-20 | 50 | PAOZZ | 5935-01-013-7520 | 19207 | 8344522 | SHELL,ELECTRICAL..... | EA | 1 |
| | | | | | | CONTINUED NEXT PAGE | | |

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-FRONT MASTER CONTROL HARNESS ASSEMBLY (2CA ENGINE) -CONTINUED | | |
| B-20 | 51 | PAOZZ | 5935-00-167-7775 | 96906 | MS27144-1 | CONNECTOR, PLUG..... | EA | 5 |
| B-20 | 52 | MOOZZ | | 81349 | M13486/1-5 | WIRE, ELECTRICAL (MAKE FROM NSN 6145-00-152-6499)..... | FT | V |
| B-20 | 53 | PAOZZ | 5940-00-113-8184 | 96906 | MS25036-150 | TERMINAL, LUG..... | EA | 1 |
| B-20 | 54 | PAOZZ | 5935-00-813-4717 | 96906 | MS3106R-14S-2S | CONNECTOR, PLUG, EL..... | EA | 1 |

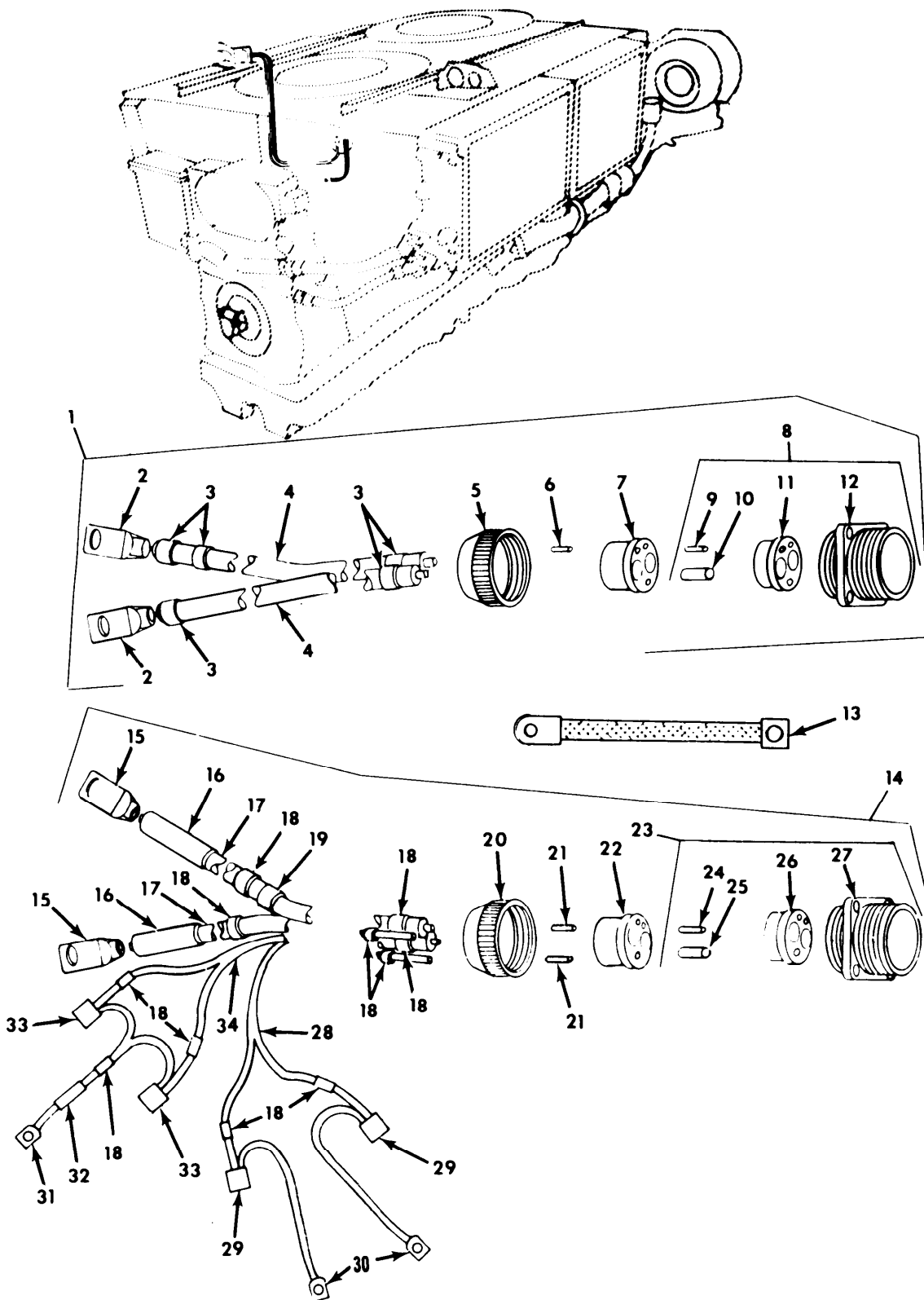


FIGURE B-21. STARTER WIRING HARNESS ASSEMBLY.

| (1) ILLUSTRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|---------------------|-----------------|----------|-----------------------|-------|----------------|---|----------------|-----------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-STARTER WIRING HARNESS ASSEMBLY | | |
| B-21 | 1 | PFO00 | 2590-00-423-3622 | 19207 | 11655454 | WIRING HARNESS..... | EA | 1 |
| B-21 | 2 | PAOZZ | 5940-00-735-5520 | 19207 | 7355520 | TERMINAL LUG..... | EA | 2 |
| B-21 | 3 | PAOZZ | 9905-00-893-3570 | 81349 | M43436/1-3 | BAND, MARKER..... | EA | 5 |
| B-21 | 4 | PAOZZ | 6145-00-705-6674 | 19207 | 7056674 | WIRE, ELECTRICAL..... | FT | V |
| B-21 | 5 | PAOZZ | 5935-00-729-8217 | 77820 | 60-37005-321 | NUT, BUSHING RETAINING..... | EA | 1 |
| B-21 | 6 | PFOZZ | 9390-00-180-7289 | 19207 | 8724763 | NONMETALLIC ROD..... | EA | 3 |
| B-21 | 7 | PAOZZ | 5365-00-682-2043 | 19207 | 7388356 | BUSHING, RUBBER..... | EA | 1 |
| B-21 | 8 | PAO00 | 5935-00-754-9078 | 19207 | 7971717 | CONNECTOR, RECEPTACLE..... | EA | 1 |
| B-21 | 9 | PAOZZ | 5999-00-771-6523 | 19207 | 7716523 | CONTACT, ELECTRICAL..... | EA | 2 |
| B-21 | 10 | PAOZZ | 5999-00-485-8954 | 19204 | 7716520 | CONTACT, ELECTRICAL..... | EA | 3 |
| B-21 | 11 | PAOZZ | 5935-01-104-6333 | 19207 | 8701344 | INSERT, ELECTRICAL..... | EA | 1 |
| B-21 | 12 | XAOZZ | | 19207 | 8701346 | SHELL..... | EA | 1 |
| B-21 | 13 | PFOZZ | 2590-01-008-1441 | 19207 | 11682595-2 | LEAD, ELECTRICAL (USE WITH 2C AND 2CA ENGINES)..... | EA | 2 |
| B-21 | 13 | PFOZZ | 2590-01-008-1441 | 19207 | 11682595-2 | LEAD, ELECTRICAL (USE WITH 2D AND 2DA ENGINES)..... | EA | 1 |
| B-21 | 14 | PFO00 | 2920-01-073-4328 | 19207 | 12275732 | CABLE ASSEMBLY (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-21 | 14 | PFO00 | 6150-01-150-9771 | 19207 | 12314619 | CABLE ASSEMBLY (USE WITH 2CA AND 2DA ENGINES)..... | EA | 1 |
| B-21 | 15 | PAOZZ | 5940-00-735-5520 | 19207 | 7355520 | TERMINAL LUG..... | EA | 2 |
| B-21 | 16 | PAOZZ | 5970-00-221-5301 | 81349 | MIL1631 | INSULATION SLEEVEING..... | FT | V |
| B-21 | 17 | PAOZZ | 6145-00-705-6674 | 19207 | 7056674 | WIRE, ELECTRICAL..... | FT | V |
| B-21 | 18 | PAOZZ | 9905-00-752-4649 | 81349 | M43436/1-1 | BAND, MARKER (USE WITH 2C AND 2D ENGINES)..... | EA | 8 |
| B-21 | 18 | PAOZZ | 9905-00-752-4649 | 81349 | M43436/1-1 | BAND, MARKER (USE WITH 2CA AND 2DA ENGINES)..... | EA | 10 |
| B-21 | 19 | PAOZZ | 9905-00-893-3570 | 81349 | M43436/1-3 | BAND, MARKER..... | EA | 1 |
| B-21 | 20 | PAOZZ | 5935-00-729-8217 | 77820 | 60-37005-321 | NUT, BUSHING RETAINER..... | EA | 1 |
| B-21 | 21 | PFOZZ | 9390-00-180-7289 | 19207 | 8724763 | NONMETALLIC ROD (USE WITH 2C AND 2D ENGINES)..... | EA | 2 |
| B-21 | 21 | PFOZZ | 9390-00-180-7289 | 19207 | 8724763 | NONMETALLIC ROD (USE WITH 2CA AND 2DA ENGINES)..... | EA | 1 |
| B-21 | 22 | PAOZZ | 5365-00-682-2043 | 19207 | 7388356 | BUSHING, RUBBER..... | EA | 1 |
| B-21 | 23 | PAO00 | 5935-00-754-9080 | 19207 | 7388353 | CONNECTOR, RECEPTACLE..... | EA | 1 |
| B-21 | 24 | PAOZZ | 5999-00-485-8955 | 19207 | 7716521 | CONTACT, ELECTRICAL..... | EA | 3 |
| B-21 | 25 | PAOZZ | 5999-00-368-4852 | 19207 | 7716522 | CONTACT, ELECTRICAL..... | EA | 2 |
| B-21 | 26 | XAOZZ | | 19207 | 8701345 | INSERT..... | EA | 1 |
| B-21 | 27 | XAOZZ | | 19207 | 8701346 | SHELL..... | EA | 1 |
| B-21 | 28 | PAOZZ | 6145-00-772-2804 | 19207 | 7722204 | WIRE, ELECTRICAL (USE WITH 2CA AND 2DA ENGINES)..... | FT | V |
| B-21 | 29 | PAOZZ | 5935-00-432-8967 | 96906 | MS3106R10SLSC | CONNECTOR, PLUG (USE WITH 2CA AND 2DA ENGINES)..... | EA | 4 |
| B-21 | 30 | PAOZZ | 5940-00-314-0479 | 19207 | 7728778 | TERMINAL LUG (USE WITH 2CA AND 2DA ENGINES)..... | EA | 2 |
| B-21 | 31 | PAOZZ | 5940-01-091-1520 | 96906 | MS21003-19 | TERMINAL LUG..... | EA | 1 |
| B-21 | 32 | PAOZZ | 5970-00-705-6634 | 19207 | 7056634 | INSULATION SLEEVEING..... | EA | 1 |
| B-21 | 33 | PAOZZ | 5935-00-432-8967 | 96906 | MS3106R10SL4SC | CONNECTOR, PLUG (USE WITH 2C AND 2D ENGINES)..... | EA | 2 |
| B-21 | 34 | PAOZZ | 6145-00-162-6499 | 19207 | 7720853 | WIRE, ELECTRICAL..... | FT | V |

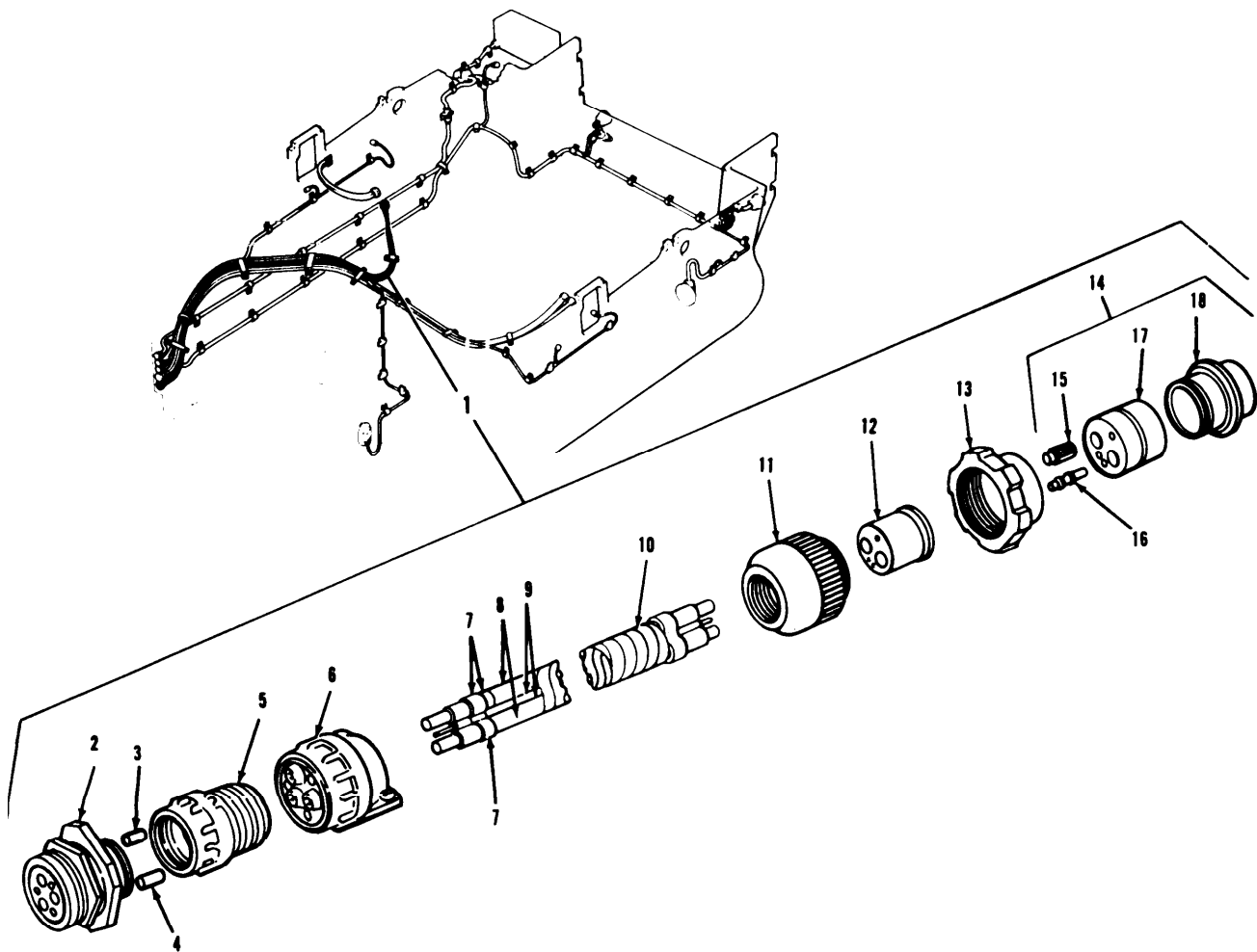


FIGURE B-22. STARTER FEED HARNESS ASSEMBLY (2CA ENGINE).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 0613: HULL WIRING HARNESS-STARTER FEED HARNESS ASSEMBLY (2CA ENGINE) | | |
| B-22 | 1 | PA000 | 2920-01-152-2412 | 19207 | 12325933 | WIRING HARNESS..... | EA | 1 |
| B-22 | 2 | PAOZZ | 5935-00-134-0373 | 19207 | 11602737 | CONNECTOR, RECEPTACLE..... | EA | 1 |
| B-22 | 3 | PAOZZ | 9390-00-464-4756 | 19207 | 8724769 | ROD, NONMETALLIC..... | EA | V |
| B-22 | 4 | PAOZZ | 9390-00-180-7289 | 19207 | 8724763 | ROD, NONMETALLIC..... | EA | V |
| B-22 | 5 | PAOZZ | 5935-00-987-2942 | 19207 | 8089700 | ADAPTER, CABLE CLAMP..... | EA | 1 |
| B-22 | 6 | PAOZZ | 5935-00-107-1273 | 77820 | 10-74936-3 | CONNECTOR, PLUG..... | EA | 1 |
| B-22 | 7 | PAOZZ | 9905-00-893-3570 | 81349 | M43436/1-3 | BAND MARKER..... | EA | 9 |
| B-22 | 8 | MOOZZ | | 81349 | M13486/1-14 | CABLE, ELECTRICAL (MAKE FROM NSN 6145-00-705-6674)..... | FT | V |
| B-22 | 9 | MOOZZ | | 81349 | M13486/1-5 | WIRE, ELECTRICAL (MAKE FROM NSN 6145-00-152-6499)..... | FT | V |
| B-22 | 10 | MOOZZ | | 19207 | 11644992-1 | CABLE WRAP (MAKE FROM NSN 9330-01-047-4313)..... | FT | V |
| B-22 | 11 | PAOZZ | 5935-00-729-8217 | 19207 | 7388355 | CONNECTOR..... | EA | 1 |
| B-22 | 12 | PAOZZ | 5365-00-682-2043 | 19207 | 7388356 | BUSHING, RUBBER..... | EA | 1 |
| B-22 | 13 | PAOZZ | 5310-00-678-4228 | 19207 | 8701249 | NUT, PLAIN ROUND..... | EA | 1 |
| B-22 | 14 | PAO00 | 5935-00-685-9979 | 19207 | 8724404 | CONNECTOR, PLUG..... | EA | 1 |
| B-22 | 15 | PAOZZ | 5999-00-771-6523 | 19207 | 7716523 | CONNECTOR..... | EA | 2 |
| B-22 | 16 | PAOZZ | 5999-00-485-8954 | 19207 | 7716520 | CONTACT ELECTRICAL..... | EA | 3 |
| B-22 | 17 | XAOZZ | | 19207 | 8701344 | INSERT, ELECTRICAL..... | EA | 1 |
| B-22 | 18 | XAOZZ | | 19207 | 8701310 | SHELL, ELECTRIC..... | EA | 1 |

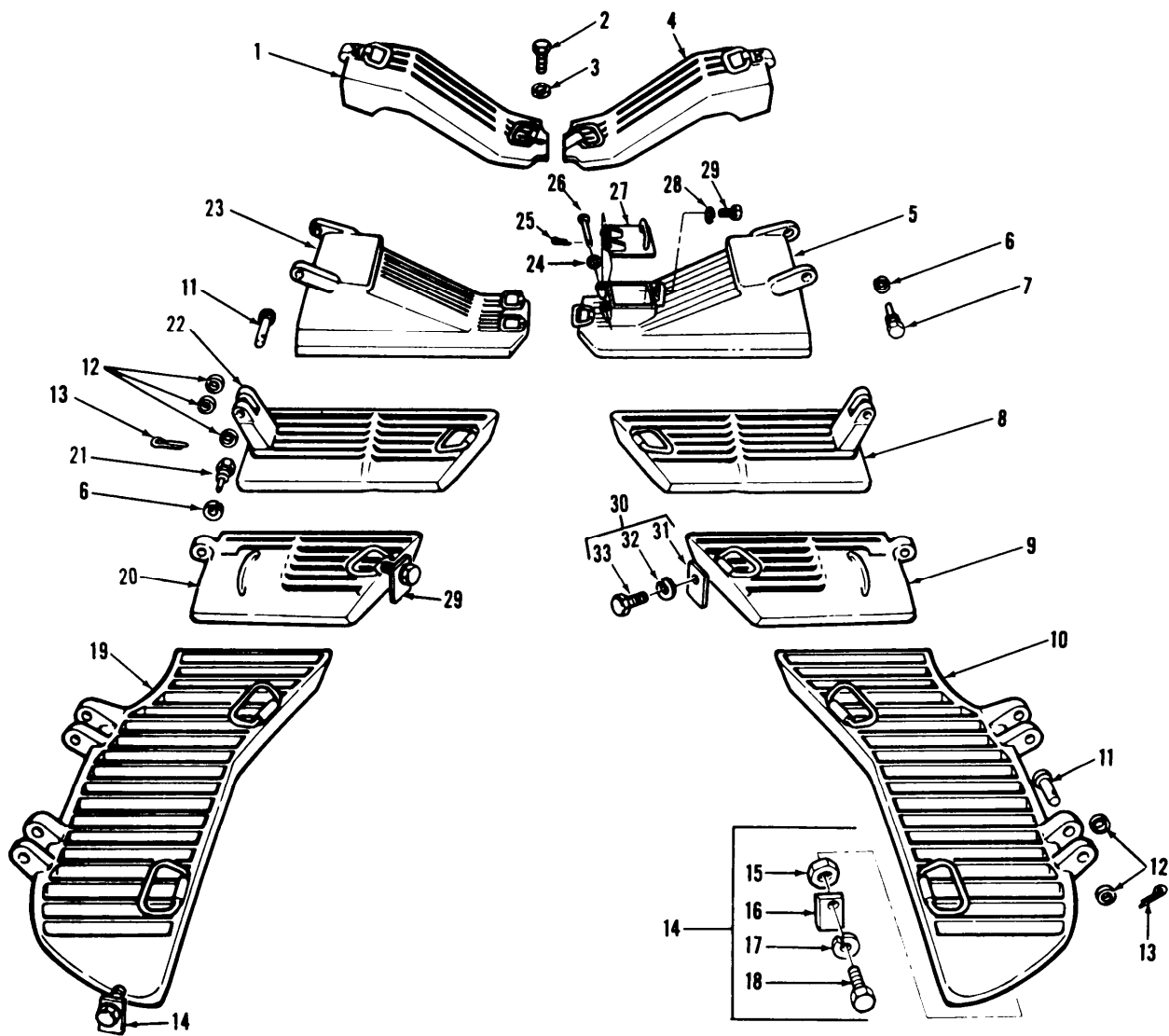


FIGURE B-23. GRILLE DOOR ASSEMBLIES AND RELATED PARTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP18: BODY AND HULL | | |
| | | | | | | GROUP1801: HULL ASSEMBLIES-GRILLE DOOR ASSEMBLIES AND RELATED PARTS | | |
| B-23 | 1 | PB000 | 2510-00-927-3305 | 19207 | 10864043 | DOOR ASSEMBLY, INTAKE GRILLE, NO. 1,LEFT (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-23 | 1 | PB000 | | 19207 | 12326091 | DOOR ASSEMBLY, INTAKE GRILLE, NO. 1,LEFT (USE WITH 2DA ENGINE)..... | EA | 1 |
| B-23 | 1 | PB000 | 5340-01-152-2542 | 19207 | 12325890 | DOOR ASSEMBLY, INTAKE GRILLE, NO. 1,LEFT (USE WITH 2CA ENGINE)..... | EA | 1 |
| B-23 | 2 | PAOZZ | 5305-00-071-2069 | 96906 | MS90728-113 | SCREW,CAP,HEXAGON H..... | EA | 2 |
| B-23 | 3 | PAOZZ | 5310-00-011-6121 | 96906 | MS35338-67 | WASHER,LOCK..... | EA | 2 |
| B-23 | 4 | PB000 | 2510-00-014-2483 | 19207 | 10924454 | DOOR ASSEMBLY, INTAKE GRILLE, NO. 1,RIGHT (USE WITH 2C AND 2D ENGINES)..... | EA | 1 |
| B-23 | 4 | PB000 | | 19207 | 12326087 | DOOR ASSEMBLY, INTAKE GRILLE, NO. 1,RIGHT (USE WITH 2DA ENGINE)..... | EA | 1 |
| B-23 | 4 | PB000 | 5340-01-152-2541 | 19207 | 12325884 | DOOR ASSEMBLY, INTAKE GRILLE, NO. 1,RIGHT (USE WITH 2CA ENGINE)..... | EA | 1 |
| B-23 | 5 | PB000 | 2510-01-082-3809 | 19207 | 11654555 | DOOR,ACCESS, NO.2, RIGHT..... | EA | 1 |
| B-23 | 6 | PAOZZ | 5310-00-011-6124 | 96906 | MS35338-70 | WASHER,LOCK..... | EA | 6 |
| B-23 | 7 | PAOZZ | 5305-00-678-6195 | 19207 | 10863629 | SETSCREW..... | EA | 4 |
| B-23 | 8 | PB000 | 2510-00-080-7552 | 19207 | 10863965 | DOOR,ACCESS, INTAKE GRILLE, NO. 3, RIGHT..... | EA | 1 |
| B-23 | 9 | PB000 | 2510-01-082-3811 | 19207 | 12257502-2 | DOOR,ACCESS, NO. 4, RIGHT (M48A5AVLB ONLY)..... | EA | 1 |
| B-23 | 9 | PB000 | 2510-00-115-4327 | 19207 | 10864147 | DOOR, ACCESS, NO. 3, RIGHT..... | EA | 1 |
| B-23 | 10 | PB000 | 2510-01-082-3813 | 19207 | 12257503-2 | DOOR,ACCESS, NO. 5, RIGHT (M48A5AVLB ONLY)..... | EA | 1 |
| B-23 | 10 | PB000 | 2510-00-105-6154 | 19207 | 10864206 | DOOR,ACCESS, NO. 5, RIGHT..... | EA | 1 |
| B-23 | 11 | PAOZZ | 5315-00-699-7760 | 19200 | 8671869 | PIN,STRAIGHT,HEADED..... | EA | 6 |
| B-23 | 12 | PAOZZ | 5310-00-809-8533 | 96906 | MS27183-23 | WASHER,FLAT..... | EA | 7 |
| B-23 | 13 | PAOZZ | 5315-00-059-0491 | 96906 | MS24665-372 | PIN,COTTER (M48A5AVLB ONLY)..... | EA | 6 |
| B-23 | 13 | PAOZZ | 5315-00-012-0123 | 96906 | MS24665-355 | PIN,COTTER..... | EA | 6 |
| B-23 | 14 | XDO00 | | 19207 | 7970529 | BLOCK ASSY (OPTIONAL WITH BLOCK ASSEMBLY 10916563)..... | EA | 2 |
| B-23 | 14 | XDO00 | | 19207 | 10916563 | BLOCK ASSY (OPTIONAL WITH BLOCK ASSEMBLY 7970529)..... | EA | 2 |
| B-23 | 15 | PAOZZ | 5310-00-957-0022 | 96906 | MS35690-1004 | NUT,PLAIN,HEXAGON..... | EA | 1 |
| B-23 | 16 | XDOZZ | | 19207 | 7970528 | BLOCK..... | EA | 1 |
| B-23 | 17 | PAOZZ | 5310-00-820-6653 | 80045 | 23MS35338-50 | WASHER,LOCK..... | EA | 1 |
| B-23 | 18 | PAOZZ | 5305-01-102-5513 | 19207 | 8734585 | SCREW,CAP,HEXAGON H (USE WITH BLOCK ASSEMBLY 7970529 ONLY)..... | EA | 1 |
| B-23 | 18 | PAOZZ | 5303-01-115-1847 | 19207 | 10916561 | SCREW,MACHINE (USE WITH BLOCK ASSEMBLY 10916563 ONLY)..... | EA | 1 |
| B-23 | 19 | PB000 | 2510-01-082-3812 | 19207 | 12257503-1 | DOOR ASSEMBLY, NO. 5, LEFT (M48A5AVLB ONLY)..... | EA | 1 |
| B-23 | 19 | PB000 | 2510-00-105-6155 | 19207 | 10864205 | DOOR ASSEMBLY, NO. 5, LEFT..... | EA | 1 |
| B-23 | 20 | PB000 | 2510-01-082-3810 | 19207 | 12257502-1 | DOOR ASSEMBLY, NO. 4, LEFT (M48A5AVLB ONLY)..... | EA | 1 |
| B-23 | 20 | PB000 | 2510-00-226-2131 | 19207 | 10864146 | DOOR ASSEMBLY, NO. 4, LEFT..... | EA | 1 |
| B-23 | 21 | PAOZZ | 5303-00-678-6196 | 19207 | 10863630 | SETSCREW..... | EA | 2 |
| B-23 | 22 | PB000 | 2510-00-997-4524 | 19207 | 10863964 | DOOR ASSY,GRILL TOP,NO. 3, LEFT..... | EA | 1 |
| B-23 | 23 | PB000 | 2510-00-487-9469 | 19207 | 11654554-1 | DOOR,HATCH,VEHICLE,NO. 2, LEFT..... | EA | 1 |
| B-23 | 24 | PAOZZ | 5310-00-809-5998 | 96906 | MS27183-18 | WASHER,FLAT (M48A5AVLB AND M60A1AVLB ONLY)..... | EA | 1 |
| B-23 | 25 | PAOZZ | 5315-00-839-5821 | 96906 | MS24665-351 | PIN,COTTER (M48A5AVLB AND M60A1AVLB ONLY)..... | EA | 1 |
| B-23 | 26 | PAOZZ | 5315-00-456-5948 | 19207 | 11626375 | PIN,STRAIGHT,HEADED (M48A5AVLB AND M60A1AVLB ONLY)..... | EA | 1 |
| B-23 | 27 | PB000 | 5420-01-085-7003 | 19207 | 11626427 | COVER (M48A5AVLB AND M60A1AVLB ONLY)..... | EA | 1 |
| B-23 | 28 | PAOZZ | 5310-00-820-6653 | 80045 | MS35338-50 | WASHER,LOCK (M48A5AVLB AND M60A1AVLB ONLY)..... | EA | 1 |
| B-23 | 29 | PAOZZ | 5303-00-724-5911 | 96906 | MS90725-163 | SCREW,CAP,HEXAGON H (M48A5AVLB AND M60A1AVLB ONLY)..... | EA | 1 |
| B-23 | 30 | XDO00 | | 19207 | 12257511 | BLOCK (M48A5AVLB ONLY)..... | EA | 2 |
| B-23 | 31 | XDOZZ | | 19207 | 12257511-1 | BLOCK (M48A5AVLB ONLY)..... | EA | 1 |
| B-23 | 32 | PAOZZ | 5310-00-820-6653 | 80045 | 23MS35338-50 | WASHER,LOCK (M48A5AVLB ONLY)..... | EA | 1 |
| | | | | | | CONTINUED NEXT PAGE | | |

| (1) ILLUS- TRATION | | (2) SMR CODE | (3) NATIONAL STOCK NUMBER | (4) FSCM | (5) PART NUMBER | (6) DESCRIPTION USABLE ON CODE | (7) U/M | (8) QTY INC IN UNIT |
|--------------------------|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|------------|---------------------------------|
| (a) FIG. NO. | (b) ITEM NO. | | | | | | | |
| B-23 | 33 | PAOZZ | 5303-00-724-5911 | 96906 | MS90725-163 | <p>GROUP: 18 BODY, CAB, HOOD, AND HULL</p> <p>GROUP1801: HULL ASSEMBLIES-GRILLE DOOR ASSEMBLIES AND RELATED PARTS -CONTINUED</p> <p>SCREW,CAP,HEXAGON H (M48A5AVLB ONLY).....</p> | EA | 1 |

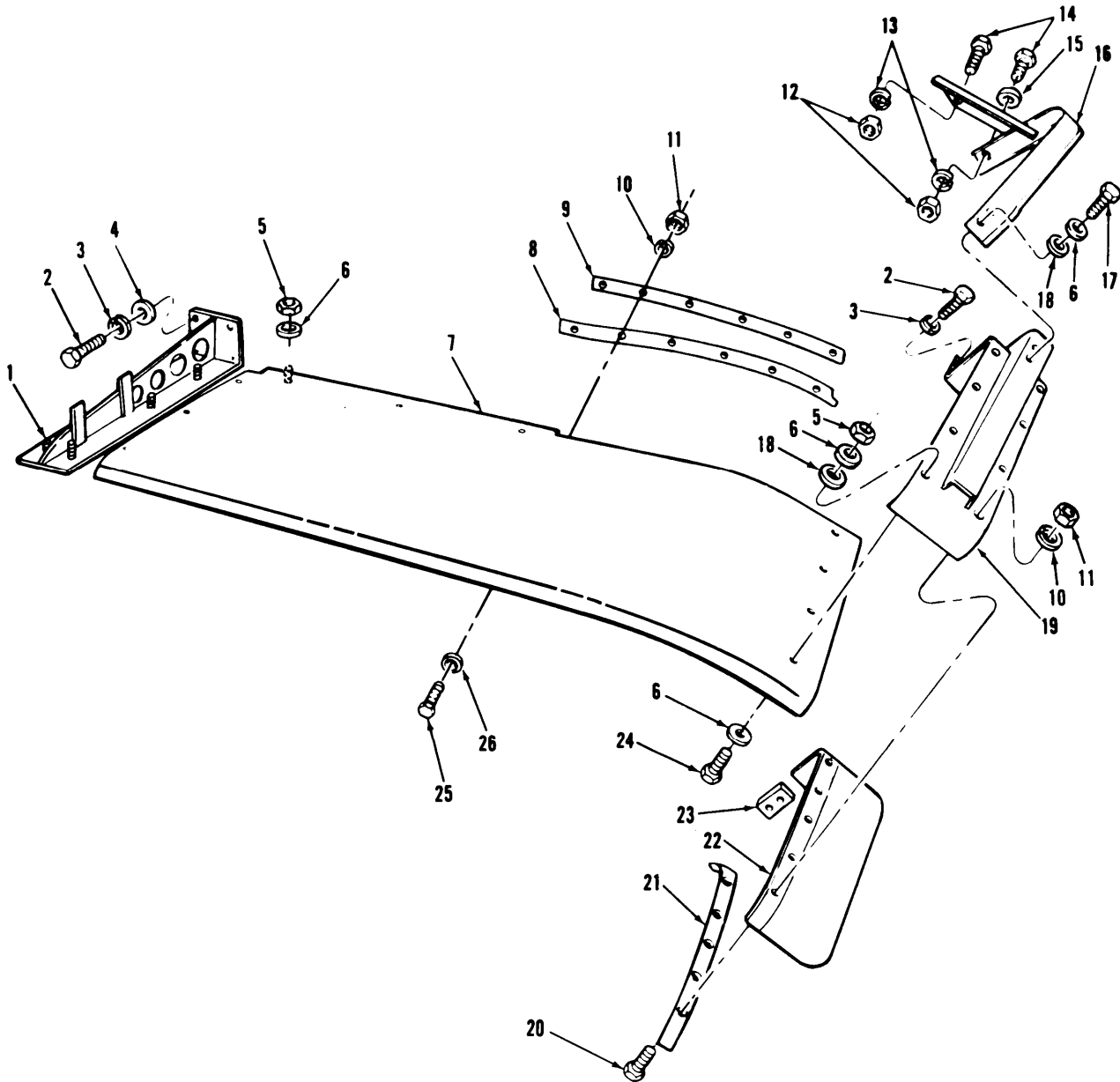


FIGURE B-24. FRONT FENDER AND RELATED PARTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 1802-FENDERS-FRONT FENDER AND RELATED PARTS | | | |
| B-24 | 1 | PAOZZ | 2510-00-930-3226 | 19207 | 10952209 | SUPPORT, FENDER, NO. 2, RIGHT..... | | EA | 1 |
| B-24 | 1 | PAOZZ | 2510-00-930-3229 | 11920 | 10952213 | SUPPORT, FENDER, NO. 2, LEFT..... | | EA | 1 |
| B-24 | 2 | PAOZZ | 5305-00-947-4352 | 96906 | MS90728-183 | SCREW,CAP,HEX HEAD..... | | EA | 16 |
| B-24 | 3 | PAOZZ | 5310-00-584-7888 | 96906 | MS35338-51 | WASHER, LOCK..... | | EA | 16 |
| B-24 | 4 | PAOZZ | 5310-00-809-8533 | 96906 | MS27183-23 | WASHER, FLAT..... | | EA | 8 |
| B-24 | 5 | PAOZZ | 5310-00-930-8214 | 96906 | MS51988-7 | NUT, SELF-LOCKING..... | | EA | 20 |
| B-24 | 6 | PAOZZ | 5310-00-809-5997 | 96906 | MS27183-17 | WASHER, FLAT..... | | EA | 32 |
| B-24 | 7 | PAOZZ | 2510-00-930-2035 | 19207 | 10940272-2 | FENDER,VEHICULAR ,FRONT RIGHT..... | | EA | 1 |
| B-24 | 7 | PAOZZ | 2510-00-930-2034 | 19207 | 10940272-1 | FENDER,VEHICULAR ,FRONT LEFT..... | | EA | 1 |
| B-24 | 8 | PAOZZ | 2590-01-016-2024 | 19207 | 10940267 | ANTISQUEAK,FENDER..... | | EA | 2 |
| B-24 | 9 | PAOZZ | 2510-00-105-9917 | 19207 | 10940271 | STRIP,FENDER FILLER..... | | EA | 2 |
| B-24 | 10 | PAOZZ | 5310-00-582-5965 | 96906 | MS35338-44 | WASHER,LOCK..... | | EA | 26 |
| B-24 | 11 | PAOZZ | 5310-00-768-0319 | 96906 | MS51968-2 | NUT,PLAIN-HEXAGON..... | | EA | 26 |
| B-24 | 12 | PAOZZ | 5310-00-768-0318 | 96906 | MS51967-14 | NUT,PLAIN,HEXAGON..... | | EA | 4 |
| B-24 | 13 | PAOZZ | 5310-00-584-5272 | 96906 | MS35338-48 | WASHER,LOCK..... | | EA | 4 |
| B-24 | 14 | PAOZZ | 5305-00-071-1770 | 96906 | MS90725-116 | SCREW,CAP,HEX HEAD..... | | EA | 4 |
| B-24 | 15 | PAOZZ | 5310-00-809-3079 | 96906 | MS27183-19 | WASHER,FLAT..... | | EA | 2 |
| B-24 | 16 | PAOZZ | 2510-00-119-3907 | 19207 | 10940260-2 | GUARD,HEADLAMP ,RIGHT..... | | EA | 1 |
| B-24 | 16 | PAOZZ | 2510-00-105-6144 | 19207 | 10940260-1 | GUARD,HEADLAMP ,LEFT..... | | EA | 1 |
| B-24 | 17 | PAOZZ | 5306-00-145-0876 | 96906 | MS35763-833 | BOLT,SELF-LOCKING..... | | EA | 4 |
| B-24 | 18 | PAOZZ | 5310-00-087-7493 | 96906 | MS27183-13 | WASHER,FLAT..... | | EA | 12 |
| B-24 | 19 | PAOZZ | 2510-00-256-5531 | 19207 | 11637698-2 | SUPPORT,FENDER ,RIGHT FRONT..... | | EA | 1 |
| B-24 | 19 | PAOZZ | 2510-00-256-5530 | 19207 | 11637698-1 | SUPPORT,FENDER ,LEFT FRONT..... | | EA | 1 |
| B-24 | 20 | PAOZZ | 5305-00-267-8974 | 96906 | MS90726-8 | SCREW,CAP,HEX HEAD..... | | EA | 14 |
| B-24 | 21 | PAOZZ | 2590-00-839-0156 | 19207 | 10887138 | RETAINER,EXTENSION..... | | EA | 2 |
| B-24 | 22 | PAOZZ | 2510-00-757-2750 | 19207 | 10940256-2 | EXTENSION,FENDER ,RIGHT FRONT..... | | EA | 1 |
| B-24 | 22 | PAOZZ | 2510-00-757-2749 | 19207 | 10940256-1 | EXTENSION,FENDER ,LEFT FRONT..... | | EA | 1 |
| B-24 | 23 | PAOZZ | 5365-00-105-6138 | 19207 | 10940255 | SPACER,PLATE..... | | EA | 2 |
| B-24 | 24 | PAOZZ | 5305-00-269-3213 | 96906 | MS90725-62 | SCREW,CAP,HEX HEAD..... | | EA | 8 |
| B-24 | 25 | PAOZZ | 5305-00-068-0507 | 96906 | MS90726-7 | SCREW,CAP,HEX HEAD..... | | EA | 12 |
| B-24 | 26 | PAOZZ | 5310-00-809-4058 | 96906 | MS27183-10 | WASHER,FLAT..... | | EA | 12 |

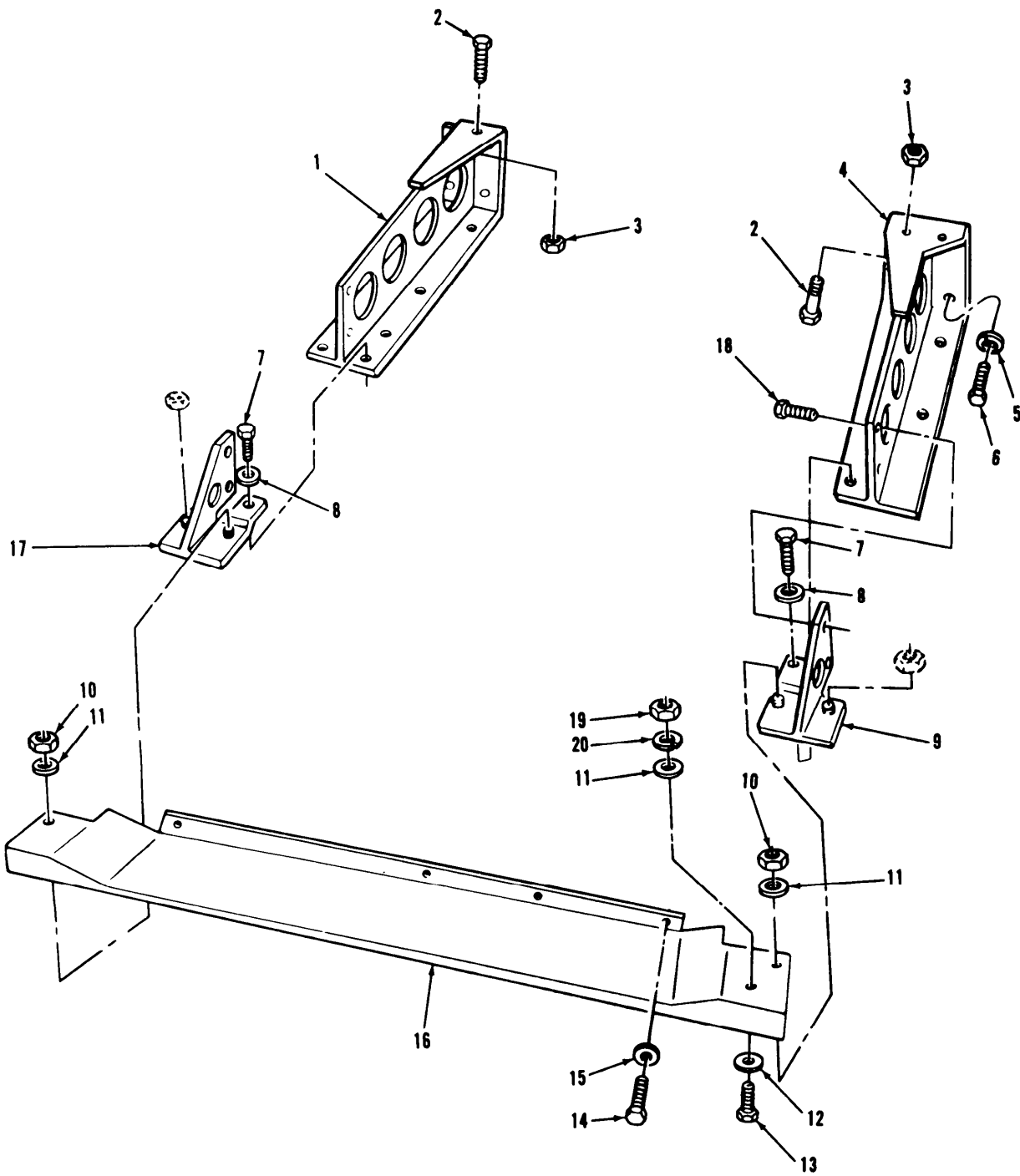


FIGURE B-25. FENDER SUPPORTS AND RELATED PARTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|--|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M INC IN UNIT |
| | | | | | | GROUP 1802: FENDERS-FENDER SUPPORTS AND RELATED PARTS | | |
| B-25 | 1 | PAOZZ | 2510-01-077-1650 | 19207 | 12290526-2 | SUPPORT, FENDER, NO. 3, RIGHT..... | | EA 1 |
| B-25 | 1 | PAOZZ | 2510-00-074-8285 | 19207 | 12290526-1 | SUPPORT, FENDER, NO. 3, LEFT..... | | EA 1 |
| B-25 | 2 | PAOZZ | 5305-00-071-2068 | 96906 | MS90728-112 | SCREW, CAP, HEX HEAD..... | | EA 6 |
| B-25 | 3 | PAOZZ | 5310-00-225-6993 | 96906 | MS51922-33 | NUT, SELF-LOCKING..... | | EA 6 |
| B-25 | 4 | PAOZZ | 2510-01-174-9585 | 19207 | 12290527-1 | SUPPORT, FENDER, NO. 4, LEFT..... | | EA 1 |
| B-25 | 4 | PAOZZ | 2510-01-074-9586 | 19207 | 12290527-2 | SUPPORT, FENDER, NO. 4, RIGHT..... | | EA 1 |
| B-25 | 5 | PAOZZ | 5310-00-584-7888 | 96906 | MS35338-51 | WASHER, LOCK..... | | EA 16 |
| B-25 | 6 | PAOZZ | 5305-00-947-4352 | 96906 | MS90728-183 | SCREW, CAP, HEX HEAD..... | | EA 16 |
| B-25 | 7 | PAOZZ | 5305-00-068-0510 | 96906 | MS90728-60 | SCREW, CAP, HEXAGON..... | | EA 4 |
| B-25 | 8 | PAOZZ | 5310-00-987-1294 | 19207 | 10910174-16 | WASHER, FLAT..... | | EA 4 |
| B-25 | 9 | PAOZZ | 2510-00-105-2756 | 19207 | 8762504 | BRACKET, EXTENSION, RIGHT..... | | EA 1 |
| B-25 | 9 | PAOZZ | 2510-00-105-2755 | 19207 | 8762503 | BRACKET, EXTENSION, LEFT..... | | EA 1 |
| B-25 | 10 | PAOZZ | 5310-00-930-8214 | 96906 | MS51988-7 | NUT, SELF-LOCKING..... | | EA 4 |
| B-25 | 11 | PAOZZ | 5310-00-625-3115 | 19207 | 11654843 | WASHER, FLAT..... | | EA 6 |
| B-25 | 12 | PAOZZ | 5310-00-080-6004 | 96906 | MS27183-14 | WASHER, FLAT..... | | EA 2 |
| B-25 | 13 | PAOZZ | 5303-00-269-3213 | 96906 | MS90725-62 | SCREW, CAP, HEX HEAD..... | | EA 2 |
| B-25 | 14 | PAOZZ | 5305-00-115-9526 | 96906 | MS18154-58 | SCREW, CAP, HEX HEAD..... | | EA 8 |
| B-25 | 15 | PAOZZ | 5310-00-728-9957 | 19207 | 10910174-22 | WASHER, FLAT..... | | EA 8 |
| B-25 | 16 | PAOZZ | 2510-00-455-1352 | 19207 | 11659711-2 | EXTENSION, FENDER, RIGHT..... | | EA 1 |
| B-25 | 16 | PAOZZ | 2510-00-455-1351 | 19207 | 116597-11-1 | EXTENSION, FENDER, LEFT..... | | EA 1 |
| B-25 | 17 | PAOZZ | 5340-00-571-7067 | 19207 | 11655113-2 | BRACKET, MOUNTING, RIGHT..... | | EA 1 |
| B-25 | 17 | PAOZZ | 5340-01-006-4586 | 19207 | 11655113-1 | BRACKET, MOUNTING, LEFT..... | | EA 1 |
| B-25 | 18 | PAOZZ | 5306-01-017-2566 | 96906 | MS35764-1289 | BOLT, SELF-LOCKING..... | | EA 8 |
| B-25 | 19 | PAOZZ | 5310-00-732-0558 | 96906 | MS51967-8 | NUT, PLAIN, HEXAGON..... | | EA 2 |
| B-25 | 20 | PAOZZ | 5310-00-637-9541 | 96906 | MS35338-46 | WASHER, LOCK..... | | EA 2 |

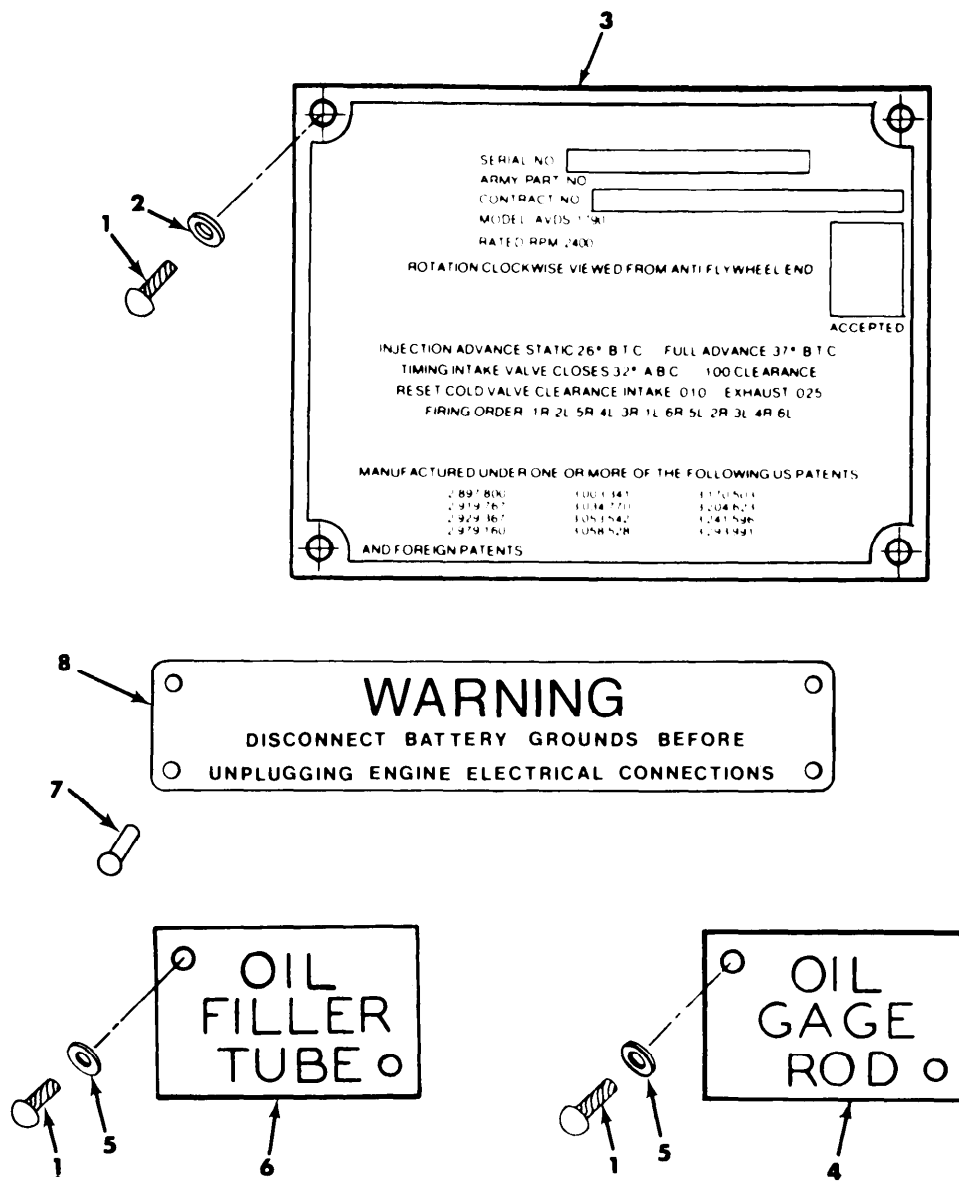


FIGURE B-26. DATA PLATE AND INSTRUCTION HOLDERS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M INC IN UNIT |
| | | | | | | GROUP 22: BODY CHASSIS AND HULL ACCESSORY ITEMS | | |
| | | | | | | GROUP 2210: IDENTIFICATION PLATES AND ASSOCIATED PARTS-DATA PLATE AND INSTRUCTION HOLDERS | | |
| B-26 | 1 | PAHZZ | 5305-00-253-5618 | 96906 | MS21318-27 | SCREW DRIVE, ENGINE IDENTIFICATION PLATE TO CRANKCASE... | EA | 4 |
| B-26 | 1 | PAOZZ | 5305-00-253-5618 | 96906 | MS21318-27 | SCREW DRIVE, IDENTIFICATION PLATE TO OIL FILLER TUBE.... | EA | 4 |
| B-26 | 2 | PAHZZ | 5310-00-167-0816 | 89954 | 11382363P6 | WASHER, FLAT..... | EA | 4 |
| B-26 | 3 | PAHZZ | 9905-01-021-2825 | 19207 | 11683967 | PLATE, IDENTIFICATION (USE WITH 2C ENGINE)..... | EA | 1 |
| B-26 | 3 | PAHZZ | 9905-01-160-2693 | 19207 | 12314617 | PLATE, IDENTIFICATION (USE WITH 2CA ENGINE)..... | EA | 1 |
| B-26 | 3 | PAHZZ | 9905-01-026-9951 | 19207 | 11684134 | PLATE, IDENTIFICATION (USE WITH 2D ENGINE)..... | EA | 1 |
| B-26 | 3 | PAHZZ | | 19207 | 12314646 | PLATE, IDENTIFICATION (USE WITH 2DA ENGINE)..... | EA | 1 |
| B-26 | 5 | PAOZZ | 5310-00-656-0111 | 96906 | MS15795-703 | WASHER, FLAT..... | EA | 4 |
| B-26 | 6 | PAOZZ | 9905-00-407-5099 | 19207 | 10882826 | PLATE, IDENTIFICATION..... | EA | 1 |
| B-26 | 7 | PAOZZ | 5320-00-753-3830 | 96906 | MS20613-4P5 | RIVET, SOLID..... | EA | 8 |
| B-26 | 8 | XAOZZ | | 19207 | 1684297 | PLATE, WARNING..... | EA | 2 |

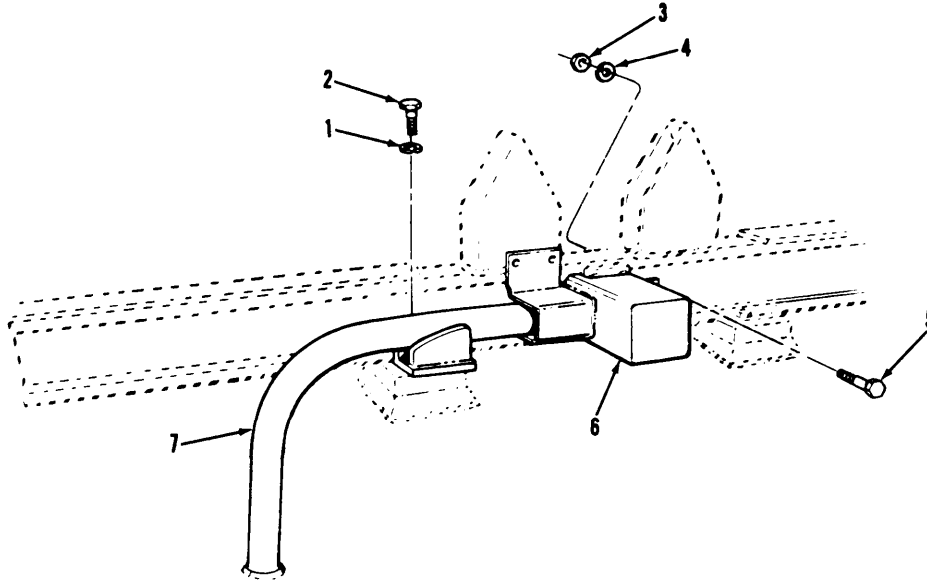


FIGURE B-27. HOLDDOWN CYLINDER ARMOR AND RELATED PARTS (M48A5AVLB AND M60A1AVLB).

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | QTY INC IN UNIT |
| | | | | | | GROUP 2407: HYDRAULIC CYLINDERS-HOLDDOWN CYLINDER ARMOR AND RELATED PARTS (M48A5AVLB AND M60A1AVLB) | | |
| B-27 | 1 | PAOZZ | 5310-00-584-7889 | 96906 | MS35338-53 | WASHER, LOCK..... | EA | 2 |
| B-27 | 2 | PAOZZ | 5305-00-958-8475 | 96906 | MS90726-235 | SCREW, CAP, HEXAGON..... | EA | 2 |
| B-27 | 3 | PAOZZ | 5310-00-768-0318 | 96906 | MS51967-14 | NUT, PLAIN, HEXAGON..... | EA | 3 |
| B-27 | 4 | PAOZZ | 5310-00-584-5272 | 96906 | MS35338-48 | WASHER, LOCK..... | EA | 3 |
| B-27 | 5 | PAOZZ | 5305-00-915-8087 | 96906 | MS18154-113 | SCREW, CAP, HEXAGON H..... | EA | 3 |
| B-27 | 6 | PAOZZ | 2590-01-136-5252 | 97403 | 13211E3011 | COVER, ARMORED (USE WITH 2D ENGINE)..... | EA | 1 |
| B-27 | 6 | PAOZZ | | 19207 | 12326119 | COVER, ARMORED (USE WITH 2DA ENGINE)..... | EA | 1 |
| B-27 | 7 | PAOZZ | 5420-01-121-1232 | 97403 | 13211E3231 | PIPE AND CLAMP ASSE..... | EA | 1 |

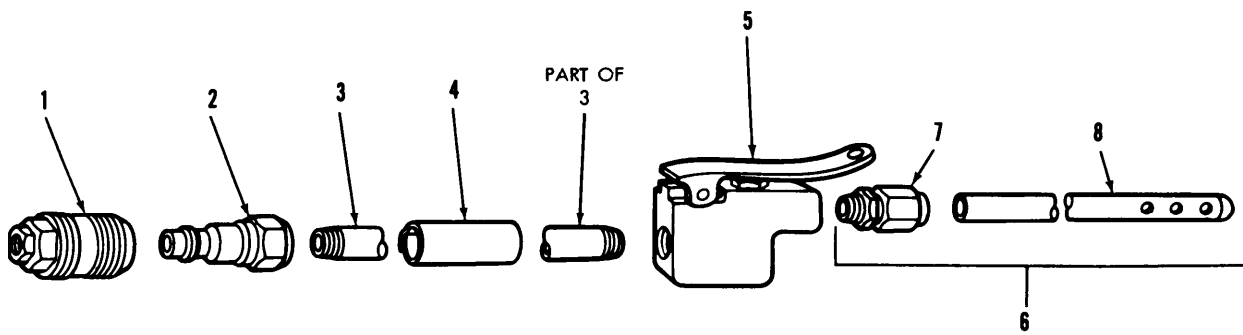


FIGURE B-28. V-PACK CLEANER ASSEMBLY COMPONENTS.

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) |
|--------------------------|--------------------|-------------|-----------------------------|-------|----------------|---|----------------------|---------------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M QTY INC IN UNIT |
| | | | | | | GROUP 26: TOOLS AND TEST EQUIPMENT | | |
| | | | | | | GROUP 2604: SPECIAL TOOLS-V-PACK CLEANER ASSEMBLY COMPONENTS | | |
| B-28 | 1 | PAOZZ | | 81349 | M4109-60800C | COUPLING HALF..... | | EA 1 |
| B-28 | 2 | PAOZZ | | 81349 | M4109-140800C | COUPLING HALF..... | | EA 1 |
| B-28 | 3 | PAOZZ | | 19207 | 12301743 | NIPPLE..... | | EA 1 |
| B-28 | 4 | PAOZZ | 9905-01-056-8812 | 81349 | M43436/5-1 | BAND MARKER..... | | EA 1 |
| B-28 | 5 | PAOZZ | | 19207 | 12301778 | VALVE..... | | EA 1 |
| B-28 | 6 | PA000 | | 19207 | 12326131 | TUBE ASSEMBLY..... | | EA 1 |
| B-28 | 7 | PAOZZ | 4730-00-020-9973 | 96906 | MS51500A5-4S | ADAPTER..... | | EA 1 |
| B-28 | 8 | PAOZZ | | 19207 | 12326130 | TUBE..... | | EA 1 |

| (1) ILLUS- TRATION | | (2) | (3) | (4) | (5) | (6) | (7) | (8) | |
|--------------------------|--------------------|-------------|-----------------------------|-------|------------------|---|----------------------|-----|--------------------------|
| (a) FIG. NO. | (b) ITEM NO. | SMR CODE | NATIONAL STOCK NUMBER | FSCM | PART NUMBER | DESCRIPTION | USABLE ON CODE | U/M | QTY INC IN UNIT |
| | | | | | | GROUP 95: GENERAL USE STANDARDIZED PARTS | | | |
| | | | | | | GROUP 9501: HARDWARE SUPPLIES AND BULK MATERIAL, COMMON-BULK MATERIAL | | | |
| BULK | | PAOZZ | 4010-00-165-6064 | 21450 | RRC271-1-5C2-13 | CHAIN, WELDED, TYPE 1, CLASS 5, STYLE 2, 23 LINKS PER FT, .125 THICK, STEEL..... | | FT | |
| BULK | | PAOZZ | 4720-00-278-1110 | 81348 | M1LH6000 | HOSE, NONMETALLIC..... | | FT | |
| BULK | | PAOZZ | 5970-00-284-8640 | 80244 | 1711725-96 | INSULATION SLEEVING MILI631, TYPEF, GRADE B, FORM U, CLASS 1, TRANSPARENT, .182 ID..... | | FT | |
| BULK | | PAOZZ | 6145-00-152-6499 | 81349 | M13486/1-5 | WIRE, ELECTRICAL..... | | FT | |
| BULK | | PAOZZ | 6145-00-161-1609 | 81349 | M13486/1-3 | WIRE, ELECTRICAL..... | | FT | |
| BULK | | PAOZZ | 6145-00-254-6117 | 81349 | M13486/1-15 | CABLE, ELECTRICAL..... | | FT | |
| BULK | | PAOZZ | 6145-00-705-6674 | 81349 | M13486/1-14 | CABLE, ELECTRICAL..... | | FT | |
| BULK | | PAOZZ | 9320-00-576-4981 | 81349 | M1LC3133 | RUBBER SHEET, CELLULAR..... | | FT | |
| BULK | | PAOZZ | 9330-01-047-4313 | 19207 | 11644992-1 | CABLE WRAP, .38 DIA, .035 THICK, .44 WIDE..... | | FT | |
| BULK | | PAOZZ | | 81349 | M1LR46846-5-1.50 | INSULATION SLEEVING HEAT SHRINKABLE, CLASS 1, .187 ID, WHITE..... | | FT | |

SECTION III. SPECIAL TOOLS LIST

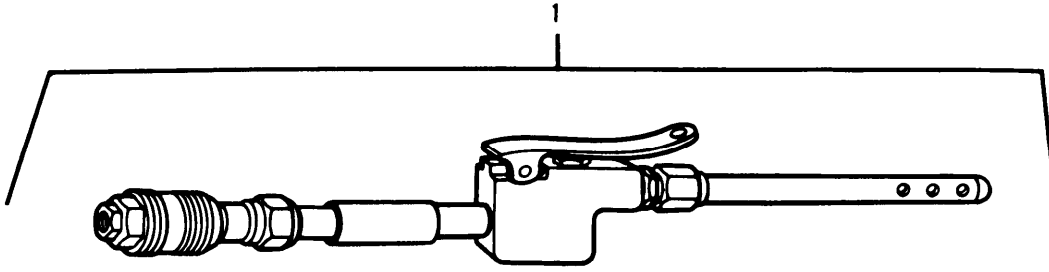


FIGURE B-29. V-PACK CLEANER ASSEMBLY.

| (1) ILLUS- TRATION | | (2) SMR CODE | (3) NATIONAL STOCK NUMBER | (4) FSCM | (5) PART NUMBER | (6) DESCRIPTION | (7) U/M | (8) QTY INC IN UNIT |
|--------------------------|--------------------|--------------------|------------------------------------|-------------|-----------------------|---|------------|---------------------------------|
| (a) FIG. NO. | (b) ITEM NO. | | | | | USABLE ON CODE | | |
| B-29 | 1 | A0 000 | | 19207 | 12326132 | GROUP 26: TOOLS AND TEST EQUIPMENT GROUP 2604: SPECIAL TOOLS -V-PACK CLEANER ASSEMBLY CLEANER, V-PACK (FOR COMPONENT PARTS SEE GROUP 2604: V-PACK CLEANER) B01-----1 AUTH PER LETTERED COMPANY... | EA | 1 |

SECTION IV. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER

| NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
|-----------------------|------------|----------|-----------------------|------------|----------|
| 5310-00-011-6121 | B-23 | 3 | 5305-00-071-2513 | B-13 | 6 |
| 5310-00-011-6124 | B-23 | 6 | 5975-00-074-2072 | B-9 | 25 |
| 5315-00-012-0123 | B-23 | 13 | 2510-00-074-8285 | B-25 | 1 |
| 2510-00-014-2483 | B-23 | 4 | 5330-00-078-4714 | B-4 | 40 |
| 5310-00-014-5850 | B-19 | 33 | 5310-00-080-6004 | B-25 | 12 |
| 4140-00-016-2615 | B-4 | 52 | 2510-00-080-7552 | B-23 | 8 |
| 5305-00-019-2417 | B-3 | 12 | 5310-00-081-4219 | B-3 | 40 |
| 5305-00-019-2417 | B-10 | 17 | 5310-00-081-4219 | B-5 | 3 |
| 5305-00-019-2417 | B-11 | 19 | 5310-00-081-4219 | B-7 | 3 |
| 4730-00-020-9973 | B-28 | 7 | 6105-00-084-7618 | B-8 | |
| 5925-00-026-4767 | B-4 | 11 | 5310-00-087-7493 | B-24 | 18 |
| 5940-00-030-7275 | B-19 | 24 | 5310-00-088-0553 | B-2 | 31 |
| 5305-00-042-5592 | B-16 | 27 | 5310-00-088-0553 | B-3 | 13 |
| 5305-00-042-5592 | B-17 | 17 | 5310-00-088-0553 | B-11 | 12 |
| 2940-00-043-0279 | B-8 | 16 | 5310-00-088-0553 | B-12 | 12 |
| 5310-00-045-3296 | B-16 | 8 | 5310-00-088-0553 | B-16 | 25 |
| 5310-00-045-3296 | B-17 | 5 | 5310-00-088-0553 | B-17 | 35 |
| 5310-00-045-3296 | B-19 | 34 | 5340-00-088-1254 | B-17 | 19 |
| 5310-00-045-3299 | B-16 | 6 | 5340-00-088-1255 | B-18 | 7 |
| 5310-00-045-3299 | B-16 | 6 | 5935-00-089-7917 | B-19 | 31 |
| 5310-00-045-4007 | B-4 | 12 | 5365-00-090-5426 | B-20 | 25 |
| 2940-00-045-6873 | B-5 | 42 | 2920-00-103-9397 | B-8 | 3 |
| 5306-00-050-1238 | B-2 | 15 | 2510-00-105-2755 | B-25 | 9 |
| 5306-00-050-1238 | B-10 | 15 | 2510-00-105-2756 | B-25 | 9 |
| 5306-00-050-1238 | B-16 | 13 | 2940-00-105-2804 | B-5 | 2 |
| 5306-00-050-1238 | B-17 | 24 | 2940-00-105-2805 | B-5 | 2 |
| 5305-00-051-4076 | B-2 | 28 | 5365-00-105-6138 | B-24 | 23 |
| 5306-00-051-4077 | B-17 | 4 | 2510-00-105-6144 | B-24 | 16 |
| 5305-00-054-6652 | B-10 | 1 | 2510-00-105-6154 | B-23 | 10 |
| 5999-00-057-2929 | B-4 | 26 | 2510-00-105-6155 | B-23 | 19 |
| 5999-00-057-2929 | B-4 | 44 | 2510-00-105-9917 | B-24 | 9 |
| 5340-00-057-3025 | B-17 | 1 | 2930-00-107-1221 | B-11 | 4 |
| 5340-00-057-3025 | B-18 | 4 | 5935-00-107-1273 | B-22 | 6 |
| 5340-00-057-3029 | B-17 | 27 | 5935-00-107-1275 | B-19 | 18 |
| 5340-00-057-3034 | B-16 | 17 | 5340-00-107-4286 | B-17 | 28 |
| 5340-00-057-3034 | B-17 | 36 | 5340-00-107-4286 | B-18 | 11 |
| 5340-00-057-3037 | B-17 | 11 | 5999-00-113-2954 | B-20 | 32 |
| 5340-00-057-3043 | B-16 | 18 | 5940-00-113-8184 | B-20 | 53 |
| 5340-00-057-3043 | B-17 | 31 | 5935-00-115-2307 | B-19 | 21 |
| 5315-00-059-0491 | B-23 | 13 | 2510-00-115-4327 | B-23 | 9 |
| 5310-00-061-1258 | B-16 | 35 | 5305-00-115-9526 | B-25 | 14 |
| 4730-00-062-7435 | B-5 | 31 | 2510-00-119-3907 | B-24 | 16 |
| 4730-00-062-7435 | B-7 | 31 | 5935-00-134-0373 | B-22 | 2 |
| 5340-00-067-3868 | B-17 | 37 | 5306-00-145-0876 | B-12 | 2 |
| 5305-00-068-0500 | B-16 | 21 | 5306-00-145-0876 | B-24 | 17 |
| 5305-00-068-0500 | B-17 | 22 | 6145-00-152-6499 | BULK | |
| 5305-00-068-0500 | B-18 | 13 | 6240-00-155-8707 | B-13 | 3 |
| 5305-00-068-0501 | B-4 | 51 | 6240-00-155-8707 | B-14 | 7 |
| 5305-00-068-0506 | B-10 | 8 | 6240-00-155-8707 | B-15 | 3 |
| 5305-00-068-0507 | B-24 | 25 | 6145-00-161-1609 | BULK | |
| 5305-00-068-0508 | B-6 | 24 | 6145-00-162-6499 | B-21 | 34 |
| 5305-00-068-0510 | B-25 | 7 | 4010-00-165-6064 | BULK | |
| 5305-00-068-0512 | B-9 | 7 | 5310-00-167-0721 | B-5 | 36 |
| 5305-00-068-7837 | B-14 | 3 | 5310-00-167-0721 | B-7 | 37 |
| 5306-00-069-3019 | B-10 | 24 | 5310-00-167-0721 | B-16 | 20 |
| 5305-00-071-1770 | B-24 | 14 | 5310-00-167-0816 | B-26 | 2 |
| 5305-00-071-2068 | B-25 | 2 | 5935-00-167-7775 | B-20 | 51 |
| 5305-00-071-2069 | B-23 | 2 | 2940-00-168-2243 | B-5 | 44 |
| 5305-00-071-2234 | B-14 | 8 | 2940-00-168-2246 | B-5 | 30 |
| 5303-00-071-2513 | B-15 | 5 | 2815-00-177-8216 | B-11 | 9 |

NATIONAL STOCK NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
|-----------------------|------------|----------|-----------------------|------------|----------|
| 5340-00-178-6077 | B-16 | 16 | 4720-00-278-1110 | BULK | |
| 5307-00-178-8859 | B-4 | 58 | 5340-00-281-4425 | B-18 | 5 |
| 5307-00-178-8859 | B-6 | 25 | 5340-00-282-7548 | B-10 | 38 |
| 9390-00-180-7289 | B-19 | 20 | 5970-00-284-8640 | BULK | |
| 9390-00-180-7289 | B-20 | 42 | 5325-00-290-1960 | B-18 | 1 |
| 9390-00-180-7289 | B-21 | 6 | 5940-00-314-0479 | B-21 | 30 |
| 9390-00-180-7289 | B-21 | 21 | 5330-00-318-4127 | B-12 | 3 |
| 9390-00-180-7289 | B-21 | 21 | 5365-00-318-8184 | B-19 | 26 |
| 9390-00-180-7289 | B-22 | 4 | 5935-00-333-3088 | B-20 | 44 |
| 5330-00-180-9951 | B-9 | 18 | 5935-00-333-9414 | B-19 | 25 |
| 5306-00-182-2023 | B-2 | 37 | 5935-00-333-9414 | B-20 | 6 |
| 5306-00-182-2023 | B-11 | 2 | 5999-00-368-4852 | B-21 | 25 |
| 5325-00-182-4707 | B-11 | 24 | 2930-00-392-9515 | B-3 | 14 |
| 4710-00-192-9436 | B-2 | 27 | 2930-00-392-9547 | B-3 | 25 |
| 2990-00-193-8211 | B-11 | 15 | 5310-00-393-6685 | B-20 | 26 |
| 5310-00-194-0636 | B-9 | 11 | 2815-00-394-9690 | B-17 | 34 |
| 5305-00-206-3851 | B-2 | 6 | 2815-00-394-9700 | B-3 | 9 |
| 5305-00-206-3851 | B-2 | 12 | 2815-00-394-9701 | B-16 | 24 |
| 5310-00-209-0786 | B-4 | 50 | 2815-00-394-9706 | B-3 | 1 |
| 5310-00-209-1366 | B-10 | 30 | 2520-00-394-9713 | B-3 | 35 |
| 5307-00-218-8179 | B-4 | 21 | 2815-00-397-3283 | B-16 | 26 |
| 4730-00-221-2136 | B-5 | 19 | 2815-00-397-3311 | B-17 | 25 |
| 4730-00-221-2136 | B-7 | 20 | 2815-00-397-3313 | B-3 | 37 |
| 5970-00-221-5301 | B-21 | 16 | 2920-00-398-6540 | B-12 | 5 |
| 5305-00-225-3838 | B-17 | 21 | 2815-00-398-6726 | B-11 | 21 |
| 5310-00-225-6993 | B-25 | 3 | 2920-00-398-7097 | B-16 | 5 |
| 5306-00-225-8497 | B-5 | 35 | 2815-00-399-5301 | B-3 | 3 |
| 5306-00-225-8497 | B-7 | 36 | 2815-00-399-5302 | B-2 | 33 |
| 5306-00-225-8498 | B-4 | 61 | 5940-00-399-6676 | B-4 | 34 |
| 5306-00-225-8498 | B-6 | 29 | 5940-00-399-6676 | B-20 | 2 |
| 5306-00-225-9086 | B-2 | 34 | 2815-00-406-4615 | B-2 | 8 |
| 5306-00-225-9088 | B-16 | 34 | 2815-00-406-4621 | B-2 | 1 |
| 5306-00-225-9088 | B-17 | 15 | 9905-00-407-5099 | B-26 | 6 |
| 5305-00-225-9091 | B-16 | 2 | 5310-00-407-9566 | B-2 | 38 |
| 5305-00-225-9091 | B-16 | 2 | 5310-00-407-9566 | B-4 | 55 |
| 5305-00-225-9091 | B-17 | 26 | 5310-00-407-9566 | B-5 | 4 |
| 2510-00-226-2131 | B-23 | 20 | 5310-00-407-9566 | B-6 | 28 |
| 5306-00-226-4822 | B-6 | 20 | 5310-00-407-9566 | B-7 | 4 |
| 5306-00-226-4824 | B-4 | 56 | 5310-00-407-9566 | B-10 | 21 |
| 5305-00-240-6668 | B-19 | 32 | 5310-00-407-9566 | B-16 | 12 |
| 5305-00-253-5618 | B-26 | 1 | 5310-00-407-9566 | B-17 | 12 |
| 5305-00-253-5618 | B-26 | 1 | 5340-00-409-2055 | B-2 | 39 |
| 6145-00-254-6117 | BULK | | 2815-00-410-1045 | B-3 | 8 |
| 2510-00-256-5530 | B-24 | 19 | 2815-00-410-1131 | B-11 | 8 |
| 2510-00-256-5531 | B-24 | 19 | 2815-00-410-1150 | B-16 | 5 |
| 5305-00-267-8953 | B-17 | 7 | 5360-00-410-5836 | B-2 | 5 |
| 5305-00-267-8974 | B-24 | 20 | 5360-00-410-5836 | B-2 | 13 |
| 5305-00-269-2800 | B-19 | 8 | 5330-00-410-9803 | B-2 | 36 |
| 5305-00-269-2806 | B-12 | 8 | 5306-00-413-4373 | B-12 | 9 |
| 5305-00-269-2808 | B-16 | 15 | 2590-00-423-3622 | B-21 | 1 |
| 5305-00-269-2808 | B-16 | 15 | 6680-00-423-4051 | B-2 | 32 |
| 5305-00-269-2808 | B-17 | 33 | 4730-00-431-9307 | B-9 | 24 |
| 5303-00-269-3213 | B-25 | 13 | 2815-00-432-0056 | B-3 | 38 |
| 5305-00-269-3213 | B-16 | 31 | 5935-00-432-8967 | B-21 | 29 |
| 5305-00-269-3213 | B-24 | 24 | 5935-00-432-8967 | B-21 | 33 |
| 5305-00-269-3242 | B-12 | 14 | 2930-00-436-3197 | B-11 | 21 |
| 4030-00-270-5436 | B-9 | 13 | 2930-00-436-3208 | B-11 | 16 |
| 5310-00-274-9364 | B-3 | 32 | 2920-00-441-8137 | B-12 | 1 |
| 5325-00-276-6089 | B-11 | 7 | 2815-00-446-1757 | B-11 | 1 |
| 5325-00-276-6096 | B-3 | 34 | 2930-00-453-5376 | B-11 | 14 |
| 4730-00-277-6352 | B-9 | 16 | | | |

NATIONAL STOCK NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 2510-00-455-1351 | B-25 | 16 | 5310-00-584-7889 | B-27 | 1 |
| 2510-00-455-1352 | B-25 | 16 | 5330-00-599-0942 | B-2 | 4 |
| 2920-00-455-5835 | B-12 | 11 | 5330-00-599-0942 | B-2 | 11 |
| 5315-00-456-5948 | B-23 | 26 | 2590-00-606-2346 | B-4 | 14 |
| 5935-00-462-2913 | B-20 | 36 | 5305-00-614-0274 | B-16 | 3 |
| 5935-00-462-6603 | B-20 | 28 | 5305-00-614-0274 | B-17 | 2 |
| 9390-00-464-4756 | B-22 | 3 | 5935-00-614-9136 | B-20 | 49 |
| 2920-00-466-7464 | B-16 | 11 | 5970-00-615-8884 | B-20 | 37 |
| 2815-00-475-8216 | B-17 | 16 | 5310-00-625-3115 | B-25 | 11 |
| 6150-00-476-0371 | B-16 | 36 | 5310-00-637-9541 | B-5 | 33 |
| 6150-00-476-0381 | B-16 | 30 | 5310-00-637-9541 | B-7 | 34 |
| 5999-00-485-8954 | B-20 | 10 | 5310-00-637-9541 | B-16 | 29 |
| 5999-00-485-8954 | B-20 | 31 | 5310-00-637-9541 | B-19 | 7 |
| 5999-00-485-8954 | B-20 | 38 | 5310-00-637-9541 | B-25 | 20 |
| 5999-00-485-8954 | B-20 | 48 | 5975-00-644-3682 | B-4 | 35 |
| 5999-00-485-8954 | B-21 | 10 | 5310-00-655-9860 | B-19 | 27 |
| 5999-00-485-8954 | B-22 | 16 | 5310-00-655-9860 | B-20 | 8 |
| 5999-00-485-8955 | B-20 | 17 | 5310-00-656-0111 | B-26 | 5 |
| 5999-00-485-8955 | B-20 | 23 | 5935-00-677-4444 | B-20 | 4 |
| 5999-00-485-8955 | B-21 | 24 | 5330-00-678-1851 | B-5 | 43 |
| 5365-00-486-0405 | B-3 | 33 | 5330-00-678-1851 | B-7 | 43 |
| 5310-00-486-0406 | B-3 | 11 | 5330-00-678-3488 | B-5 | 1 |
| 5310-00-486-0406 | B-3 | 16 | 5330-00-678-3488 | B-7 | 1 |
| 5310-00-486-0406 | B-3 | 30 | 5330-00-678-3489 | B-5 | 38 |
| 5310-00-486-0406 | B-11 | 5 | 5330-00-678-3489 | B-7 | 39 |
| 5310-00-486-0406 | B-11 | 11 | 5310-00-678-4228 | B-22 | 13 |
| 5310-00-486-0406 | B-11 | 18 | 5365-00-678-4258 | B-19 | 17 |
| 5310-00-486-0406 | B-11 | 23 | 5330-00-678-4699 | B-5 | 29 |
| 5310-00-486-0412 | B-3 | 24 | 5330-00-678-4699 | B-7 | 29 |
| 2510-00-487-9469 | B-23 | 23 | 4720-00-678-4700 | B-5 | 32 |
| 5310-00-489-5663 | B-18 | 9 | 4720-00-678-4700 | B-7 | 32 |
| 2590-00-499-1782 | B-12 | 16 | 5330-00-678-4712 | B-10 | 35 |
| 5310-00-514-6674 | B-16 | 1 | 4730-00-678-4749 | B-6 | 14 |
| 5310-00-514-6674 | B-17 | 3 | 4730-00-678-4750 | B-4 | 39 |
| 5330-00-530-2772 | B-2 | 29 | 5307-00-678-4760 | B-4 | 20 |
| 5305-00-543-2752 | B-16 | 4 | 5340-00-678-6178 | B-5 | 6 |
| 5305-00-543-2752 | B-16 | 4 | 5340-00-678-6178 | B-7 | 6 |
| 5310-00-550-1130 | B-13 | 7 | 5305-00-678-6195 | B-23 | 7 |
| 5310-00-550-1130 | B-14 | 2 | 5303-00-678-6196 | B-23 | 21 |
| 5310-00-550-1130 | B-15 | 4 | 5330-00-679-4961 | B-2 | 30 |
| 5310-00-550-1130 | B-17 | 8 | 5365-00-682-2043 | B-21 | 7 |
| 5310-00-550-3503 | B-16 | 1 | 5365-00-682-2043 | B-21 | 22 |
| 5935-00-257-1024 | B-20 | 22 | 5365-00-682-2043 | B-22 | 12 |
| 5310-00-559-0070 | B-8 | 2 | 5935-00-685-9979 | B-22 | 14 |
| 5340-00-571-7067 | B-25 | 17 | 5935-00-686-2605 | B-20 | 35 |
| 5935-00-572-9180 | B-4 | 28 | 5935-00-686-2606 | B-20 | 16 |
| 5935-00-572-9180 | B-4 | 46 | 5935-00-686-2608 | B-20 | 9 |
| 9320-00-576-4981 | BULK | | 5935-00-686-2610 | B-20 | 47 |
| 5310-00-579-0079 | B-8 | 14 | 5935-00-686-9374 | B-19 | 28 |
| 4730-00-580-6740 | B-6 | 15 | 2520-00-692-1024 | B-4 | 15 |
| 5310-00-582-5965 | B-9 | 6 | 5975-00-697-6991 | B-20 | 46 |
| 5310-00-582-5965 | B-10 | 9 | 5975-00-697-7769 | B-20 | 39 |
| 5310-00-582-5965 | B-14 | 5 | 5315-00-699-7760 | B-23 | 11 |
| 5310-00-582-5965 | B-16 | 22 | 5970-00-705-6634 | B-21 | 32 |
| 5310-00-582-5965 | B-17 | 20 | 5330-00-705-6661 | B-4 | 37 |
| 5310-00-582-5965 | B-18 | 10 | 6145-00-705-6674 | B-21 | 4 |
| 5310-00-582-5965 | B-24 | 10 | 6145-00-705-6674 | B-21 | 17 |
| 5310-00-584-5272 | B-24 | 13 | 6145-00-705-6674 | BULK | |
| 5310-00-584-5272 | B-27 | 4 | 5940-00-705-6706 | B-20 | 41 |
| 5310-00-584-7888 | B-24 | 3 | 5940-00-705-6707 | B-20 | 40 |
| 5310-00-584-7888 | B-25 | 5 | 5940-00-705-6709 | B-4 | 49 |

NATIONAL STOCK NUMBER CROSS REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
|-----------------------|------------|----------|-----------------------|------------|----------|
| 5940-00-705-6709 | B-20 | 5 | 5310-00-776-7318 | B-12 | 13 |
| 5310-00-705-7352 | B-4 | 36 | 5310-00-776-7318 | B-16 | 14 |
| 5330-00-724-5541 | B-9 | 19 | 5310-00-776-7318 | B-16 | 14 |
| 5303-00-724-5911 | B-23 | 29 | 5310-00-776-7318 | B-17 | 32 |
| 5303-00-724-5911 | B-23 | 33 | 5315-00-778-9646 | B-6 | 9 |
| 5305-00-724-7223 | B-5 | 25 | 4030-00-780-9350 | B-5 | 15 |
| 5305-00-724-7223 | B-7 | 25 | 4030-00-780-9350 | B-7 | 16 |
| 5330-00-724-7902 | B-9 | 20 | 1015-00-798-2997 | B-20 | 2 |
| 5310-00-728-9957 | B-25 | 15 | 6105-00-801-8716 | B-8 | 17 |
| 5330-00-729-5049 | B-5 | 10 | 5330-00-803-7491 | B-9 | 23 |
| 5330-00-729-5049 | B-7 | 10 | 5330-00-805-2966 | B-9 | 3 |
| 5935-00-729-8217 | B-21 | 5 | 5940-00-808-9212 | B-19 | 10 |
| 5935-00-729-8217 | B-21 | 20 | 5340-00-809-1490 | B-18 | 8 |
| 5935-00-729-8217 | B-22 | 11 | 5310-00-809-3079 | B-24 | 15 |
| 5310-00-732-0558 | B-16 | 28 | 5310-00-809-4058 | B-24 | 26 |
| 5310-00-732-0558 | B-25 | 19 | 5310-00-809-5997 | B-24 | 6 |
| 5310-00-732-0559 | B-5 | 34 | 5310-00-809-5998 | B-6 | 7 |
| 5310-00-732-0559 | B-7 | 35 | 5310-00-809-5998 | B-23 | 24 |
| 5340-00-735-1617 | B-18 | 3 | 5310-00-809-8533 | B-23 | 12 |
| 5940-00-735-5520 | B-21 | 2 | 5310-00-809-8533 | B-24 | 4 |
| 5940-00-735-5520 | B-21 | 15 | 5935-00-811-0942 | B-20 | 30 |
| 5306-00-741-4584 | B-3 | 4 | 5935-00-813-4717 | B-20 | 54 |
| 5306-00-741-4584 | B-3 | 4 | 5310-00-814-0672 | B-7 | 19 |
| 5306-00-741-4584 | B-11 | 20 | 5315-00-816-1794 | B-6 | 8 |
| 5975-00-752-2746 | B-19 | 16 | 5310-00-820-6653 | B-23 | 17 |
| 9905-00-752-4649 | B-4 | 19 | 5310-00-820-6653 | B-23 | 28 |
| 9905-00-752-4649 | B-4 | 29 | 5310-00-820-6653 | B-23 | 32 |
| 9905-00-752-4649 | B-4 | 47 | 2920-00-830-6660 | B-12 | 17 |
| 9905-00-752-4649 | B-19 | 22 | 5340-00-833-8476 | B-18 | 2 |
| 9905-00-752-4649 | B-21 | 18 | 5935-00-833-8561 | B-4 | 17 |
| 9905-00-752-4649 | B-21 | 18 | 5935-00-833-8561 | B-4 | 32 |
| 5320-00-753-3830 | B-26 | 7 | 5970-00-833-8562 | B-4 | 16 |
| 5935-00-754-9078 | B-21 | 8 | 5970-00-833-8562 | B-4 | 33 |
| 5935-00-754-9080 | B-21 | 23 | 5970-00-833-8562 | B-20 | 3 |
| 5935-00-754-9083 | B-20 | 20 | 5310-00-833-8567 | B-4 | 27 |
| 2510-00-757-2749 | B-24 | 22 | 5310-00-833-8567 | B-4 | 45 |
| 2510-00-757-2750 | B-24 | 22 | 2590-00-839-0156 | B-24 | 21 |
| 5310-00-761-6882 | B-13 | 1 | 5315-00-839-5821 | B-23 | 25 |
| 5310-00-761-6882 | B-14 | 4 | 4730-00-840-8989 | B-5 | 8 |
| 5310-00-761-6882 | B-15 | 1 | 4730-00-840-8989 | B-7 | 8 |
| 5310-00-763-8920 | B-5 | 28 | 8145-00-856-8147 | B-1 | 2 |
| 5310-00-763-8920 | B-7 | 28 | 5310-00-880-5976 | B-10 | 2 |
| 5310-00-768-0318 | B-24 | 12 | 5310-00-880-7746 | B-5 | 5 |
| 5310-00-768-0318 | B-27 | 3 | 5310-00-880-7746 | B-7 | 5 |
| 5310-00-768-0319 | B-24 | 11 | 5315-00-882-1438 | B-8 | 6 |
| 2920-00-770-1642 | B-8 | 15 | 2940-00-886-5841 | B-8 | 11 |
| 5999-00-771-6523 | B-19 | 30 | 5305-00-889-3001 | B-4 | 13 |
| 5999-00-771-6523 | B-21 | 9 | 9905-00-893-3570 | B-19 | 12 |
| 5999-00-771-6523 | B-22 | 15 | 9905-00-893-3570 | B-20 | 43 |
| 5975-00-771-6634 | B-20 | 24 | 9905-00-893-3570 | B-21 | 3 |
| 5935-00-771-8192 | B-20 | 11 | 9905-00-893-3570 | B-21 | 19 |
| 5935-00-772-0484 | B-20 | 15 | 9905-00-893-3570 | B-22 | 7 |
| 5365-00-772-2322 | B-20 | 7 | 4720-00-896-6166 | B-10 | 40 |
| 5365-00-772-2323 | B-20 | 29 | 2990-00-897-2849 | B-2 | 2 |
| 5365-00-772-2343 | B-20 | 45 | 2990-00-897-2849 | B-2 | 9 |
| 5935-00-772-2344 | B-20 | 14 | 5340-00-900-2347 | B-8 | 12 |
| 6145-00-772-2804 | B-21 | 28 | 2940-00-900-8554 | B-8 | |
| 5365-00-772-2972 | B-4 | 38 | 5315-00-903-7885 | B-4 | 6 |
| 5935-00-772-3307 | B-20 | 13 | 5315-00-903-7885 | B-6 | 6 |
| 5310-00-776-7318 | B-12 | 6 | 4730-00-908-3193 | B-4 | 41 |
| | | | 4730-00-908-3193 | B-10 | 39 |

NATIONAL STOCK NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 4730-00-909-8627 | B-2 | 25 | 2590-01-008-1441 | B-21 | 13 |
| 4730-00-909-8627 | B-6 | 16 | 2590-01-008-1441 | B-21 | 13 |
| 4730-00-909-8627 | B-10 | 5 | 5340-01-010-8946 | B-3 | 22 |
| 5305-00-912-5113 | B-3 | 31 | 5330-01-013-7132 | B-2 | 35 |
| 5305-00-914-6131 | B-12 | 15 | 5935-01-013-7520 | B-20 | 50 |
| 5305-00-915-8087 | B-27 | 5 | 2590-01-016-2024 | B-24 | 8 |
| 2510-00-927-3305 | B-23 | 1 | 5340-01-016-4429 | B-4 | 2 |
| 5330-00-930-1624 | B-5 | 39 | 5340-01-016-4429 | B-6 | 2 |
| 2510-00-930-2035 | B-24 | 7 | 5340-01-016-4782 | B-4 | 57 |
| 2510-00-930-3226 | B-24 | 1 | 5306-01-017-2566 | B-25 | 18 |
| 2510-00-930-3229 | B-24 | 1 | 9320-01-017-2743 | B-4 | 53 |
| 5310-00-930-8214 | B-24 | 5 | 9905-01-021-2825 | B-26 | 3 |
| 5310-00-930-8214 | B-25 | 10 | 4720-01-022-6070 | B-4 | 42 |
| 2940-00-930-8765 | B-8 | 10 | 5935-01-026-5900 | B-20 | 33 |
| 2940-00-932-3565 | B-5 | 40 | 9905-01-026-9951 | B-26 | 3 |
| 2940-00-932-3565 | B-7 | 41 | 5340-01-028-5260 | B-4 | 54 |
| 5310-00-933-8121 | B-6 | 23 | 5340-01-030-6928 | B-17 | 18 |
| 2940-00-933-9946 | B-5 | 37 | 5340-01-030-8726 | B-16 | 23 |
| 2940-00-933-9946 | B-7 | 38 | 5340-01-031-0420 | B-4 | 60 |
| 5310-00-934-9757 | B-16 | 7 | 5330-01-035-9825 | B-4 | 59 |
| 5310-00-934-9757 | B-16 | 7 | 5330-01-035-9825 | B-6 | 26 |
| 5310-00-934-9758 | B-16 | 9 | 2940-01-035-9826 | B-4 | 1 |
| 5310-00-934-9758 | B-17 | 6 | 2940-01-035-9827 | B-4 | 1 |
| 5310-00-934-9758 | B-19 | 35 | 2940-01-037-4976 | B-5 | 20 |
| 5310-00-934-9761 | B-10 | 31 | 2940-01-037-4977 | B-5 | 20 |
| 5305-00-947-4352 | B-24 | 2 | 7690-01-038-7440 | B-4 | 62 |
| 5305-00-947-4352 | B-25 | 6 | 7690-01-038-7440 | B-6 | 31 |
| 5310-00-950-0039 | B-5 | 18 | 2930-01-038-8296 | B-3 | 21 |
| 5310-00-950-0039 | B-7 | 33 | 4730-01-043-7679 | B-5 | 14 |
| 5310-00-950-0039 | B-12 | 18 | 4730-01-043-7679 | B-7 | 15 |
| 5310-00-957-0022 | B-23 | 15 | 5970-01-044-8391 | B-19 | 6 |
| 5305-00-958-8475 | B-27 | 2 | 9330-01-047-4313 | BULK | |
| 5340-00-959-8422 | B-16 | 32 | 5340-01-048-6052 | B-12 | 4 |
| 5340-00-959-8422 | B-17 | 23 | 9905-01-051-5289 | B-4 | 63 |
| 5310-00-964-8588 | B-5 | 27 | 9905-01-051-5290 | B-4 | 63 |
| 5310-00-964-8588 | B-7 | 27 | 6685-01-055-5116 | B-5 | 17 |
| 5305-00-974-6623 | B-6 | 19 | 9905-01-056-8812 | B-28 | 4 |
| 2590-00-974-9216 | B-4 | 43 | 5340-01-059-0114 | B-19 | 3 |
| 2590-00-978-7335 | B-4 | 25 | 5935-01-059-0117 | B-19 | 2 |
| 5310-00-982-4908 | B-3 | 36 | 5330-01-059-4286 | B-19 | 5 |
| 5310-00-982-4912 | B-10 | 19 | 5935-01-062-5653 | B-19 | 9 |
| 5305-00-984-4984 | B-8 | 13 | 2920-01-065-2016 | B-17 | 10 |
| 5305-00-984-6191 | B-8 | 1 | 2520-01-073-4085 | B-11 | 3 |
| 5305-00-984-6193 | B-16 | 10 | 2920-01-073-4328 | B-21 | 14 |
| 5340-00-984-8540 | B-17 | 29 | 2510-01-074-9586 | B-25 | 4 |
| 5340-00-984-8540 | B-18 | 12 | 5340-01-077-1501 | B-17 | 14 |
| 5310-00-987-1294 | B-25 | 8 | 2510-01-077-1650 | B-25 | 1 |
| 5935-00-987-2942 | B-22 | 5 | 2940-01-080-8023 | B-5 | 30 |
| 5340-00-988-1162 | B-16 | 19 | 5340-01-081-1686 | B-16 | 33 |
| 5340-00-988-1162 | B-16 | 19 | 5340-01-081-1686 | B-17 | 13 |
| 5305-00-993-1206 | B-17 | 9 | 5330-01-082-3761 | B-9 | 15 |
| 4730-00-993-5002 | B-10 | 34 | 2510-01-082-3809 | B-23 | 5 |
| 2510-00-997-4524 | B-23 | 22 | 2510-01-082-3810 | B-23 | 20 |
| 2930-00-998-4724 | B-11 | 13 | 2510-01-082-3811 | B-23 | 9 |
| 4730-01-003-6044 | B-10 | 37 | 2510-01-082-3812 | B-23 | 19 |
| 2930-01-005-1549 | B-3 | 39 | 2510-01-082-3813 | B-23 | 10 |
| 2930-01-005-1550 | B-3 | 20 | 5420-01-085-7003 | B-23 | 27 |
| 5340-01-006-4586 | B-25 | 17 | 5940-01-091-1520 | B-21 | 31 |
| 5307-01-006-5515 | B-5 | 41 | 5306-01-091-3384 | B-4 | 64 |
| 5307-01-006-5515 | B-7 | 42 | 5306-01-091-3384 | B-6 | 5 |
| 4730-01-007-5232 | B-9 | 2 | | | |

NATIONAL STOCK NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 5306-01-091-3384 | B-6 | 32 | 5640-01-146-1898 | B-10 | 3 |
| 6105-01-092-1484 | B-8 | 17 | 4710-01-146-1900 | B-10 | 25 |
| 4720-01-095-2429 | B-10 | 6 | 4710-01-146-1901 | B-10 | 7 |
| 5305-01-102-5513 | B-23 | 18 | 4710-01-146-1909 | B-10 | 20 |
| 5935-01-104-6333 | B-21 | 11 | 4710-01-146-1910 | B-10 | 14 |
| 9510-01-104-8931 | B-19 | 19 | 6105-01-147-5170 | B-8 | |
| 5303-01-115-1847 | B-23 | 18 | 5930-01-147-7912 | B-9 | 4 |
| 4720-01-119-7779 | B-5 | 9 | 4710-01-150-4822 | B-10 | 41 |
| 4720-01-119-7779 | B-7 | 9 | 6150-01-150-9771 | B-21 | 14 |
| 5420-01-121-1232 | B-27 | 7 | 5310-01-151-2732 | B-10 | 27 |
| 4720-01-121-1542 | B-5 | 7 | 5330-01-152-2486 | B-6 | 22 |
| 4720-01-121-1542 | B-7 | 7 | 5330-01-152-2487 | B-6 | 22 |
| 5310-01-124-6063 | B-5 | 26 | 5340-01-152-2515 | B-6 | 18 |
| 5310-01-124-6063 | B-7 | 26 | 2920-01-152-2559 | B-20 | 1 |
| 5330-01-128-5650 | B-5 | 24 | 2815-01-152-2563 | B-6 | 21 |
| 5330-01-128-5650 | B-7 | 24 | 2590-01-152-7118 | B-11 | 1 |
| 5307-01-128-5681 | B-6 | 11 | 2815-01-154-1396 | B-6 | 22 |
| 5307-01-128-5682 | B-6 | 12 | 2990-01-156-6225 | B-10 | 11 |
| 5330-01-129-0642 | B-4 | 3 | 4010-01-157-1343 | B-9 | 14 |
| 5330-01-129-0642 | B-6 | 3 | 5330-01-158-2069 | B-7 | 40 |
| 4730-01-132-9086 | B-5 | 23 | 2510-01-174-9585 | B-25 | 4 |
| 4730-01-132-9086 | B-7 | 13 | | | |
| 4730-01-134-1957 | B-5 | 20 | | | |
| 4730-01-134-1957 | B-7 | 21 | | | |
| 4730-01-134-1958 | B-5 | 20 | | | |
| 4730-01-134-1958 | B-7 | 21 | | | |
| 4310-01-134-6587 | B-4 | | | | |
| 5895-01-134-8291 | B-5 | 17 | | | |
| 5895-01-134-8291 | B-7 | 18 | | | |
| 2590-01-136-5252 | B-27 | 6 | | | |
| 2940-01-144-4872 | B-7 | 44 | | | |
| 4730-01-144-4887 | B-7 | 30 | | | |
| 4730-01-144-4888 | B-7 | 30 | | | |
| 4730-01-144-4889 | B-7 | 2 | | | |
| 4730-01-144-4890 | B-7 | 2 | | | |
| 2590-01-145-4316 | B-12 | 10 | | | |
| 5340-01-145-8262 | B-9 | 5 | | | |
| 5305-01-145-8286 | B-9 | 9 | | | |
| 5305-01-145-8287 | B-9 | 10 | | | |
| 5330-01-145-8290 | B-10 | 10 | | | |
| 5340-01-145-8291 | B-9 | 22 | | | |
| 4030-01-145-8293 | B-9 | 12 | | | |
| 4460-01-145-8299 | B-9 | 21 | | | |
| 5340-01-145-8301 | B-10 | 18 | | | |
| 5340-01-145-8302 | B-10 | 36 | | | |
| 5350-01-145-8303 | B-10 | 22 | | | |
| 5340-01-145-8307 | B-2 | 39 | | | |
| 5340-01-145-8310 | B-9 | 17 | | | |
| 4710-01-145-8311 | B-10 | 33 | | | |
| 2815-01-145-8312 | B-2 | 8 | | | |
| 2815-01-146-1877 | B-10 | 4 | | | |
| 2815-01-146-1878 | B-10 | 28 | | | |
| 4720-01-146-1887 | B-10 | 12 | | | |
| 4720-01-146-1888 | B-10 | 13 | | | |
| 5640-01-146-1889 | B-10 | 32 | | | |
| 5640-01-146-1890 | B-10 | 26 | | | |
| 5640-01-146-1891 | B-10 | 29 | | | |
| 5340-01-146-1895 | B-10 | 23 | | | |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 00624 | AE6040ED112-020 | | B-9 | 26 | 96906 | MS21333-122 | 5340-00-833-8476 | B-18 | 2 |
| 00624 | AE6040ED145-000 | | B-9 | 26 | 96906 | MS21333-3034 | 5340-00-057-3034 | B-17 | 36 |
| 00624 | AE6040F0092-020 | | B-9 | 1 | 96906 | MS21333-52 | 5340-00-282-7548 | B-10 | 38 |
| 00624 | AE6040F0145-000 | | B-9 | 1 | 96906 | MS21333-96 | 5340-00-088-1255 | B-18 | 7 |
| 88044 | AN5-4A | 5306-00-182-2023 | B-11 | 2 | 96906 | MS21333-98 | 5340-00-809-1490 | B-18 | 8 |
| 88044 | AN5H4A | 5306-00-182-2023 | B-2 | 37 | 96906 | MS21920-43 | 4730-00-840-8989 | B-5 | 8 |
| 88044 | AN8C56A | 5306-00-069-3019 | B-10 | 24 | 96906 | MS21920-43 | 4730-00-840-8989 | B-7 | 8 |
| 88044 | AN931-9-13 | 5325-00-276-6089 | B-11 | 7 | 96906 | MS21920-61R | 4730-00-062-7435 | B-5 | 31 |
| 88044 | AN931B9-13 | 5325-00-276-6096 | B-3 | 34 | 96906 | MS21920-61R | 4730-00-062-7435 | B-7 | 31 |
| 14314 | D52S-13 | 5930-01-147-7912 | B-9 | 4 | 96906 | MS24665-285 | | B-4 | 8 |
| 81349 | MILC3133 | 9320-00-576-4981 | BULK | | 96906 | MS24665-285 | 5315-00-816-1794 | B-6 | 8 |
| 81348 | MILH6000 | 4720-00-278-1110 | BULK | | 96906 | MS24665-351 | 5315-00-839-5821 | B-23 | 25 |
| 81349 | MILR46846-TYPE5-1.501D-BLACK | | B-19 | 11 | 96906 | MS24665-355 | 5315-00-012-0123 | B-23 | 13 |
| 81349 | MILR46846-5-1.50 | | BULK | | 96906 | MS24665-372 | 5315-00-059-0491 | B-23 | 13 |
| 81349 | MIL1631 | 5970-00-221-5301 | B-21 | 16 | 96906 | MS24668-22 | 5305-00-993-1206 | B-17 | 9 |
| 96906 | MS15795-703 | 5310-00-656-0111 | B-26 | 5 | 96906 | MS25036-150 | 5940-00-113-8184 | B-20 | 53 |
| 96906 | MS15795-806 | 5310-00-880-5976 | B-10 | 2 | 96906 | MS25231-1819 | 6240-00-155-8707 | B-13 | 3 |
| 96906 | MS16562-193 | 5315-00-882-1438 | B-8 | 6 | 96906 | MS25231-1819 | 6240-00-155-8707 | B-14 | 7 |
| 96906 | MS18154-113 | 5305-00-915-8087 | B-27 | 5 | 96906 | MS25231-1819 | 6240-00-155-8707 | B-15 | 3 |
| 96906 | MS18154-58 | 5305-00-115-9526 | B-25 | 14 | 96906 | MS27142-2 | 5935-00-462-6603 | B-20 | 28 |
| 96906 | MS20392-7C55 | 5315-00-903-7885 | B-4 | 6 | 96906 | MS27144-1 | 5935-00-167-7775 | B-20 | 51 |
| 96906 | MS20392-7C55 | 5315-00-903-7885 | B-6 | 6 | 96906 | MS27144-2 | 5935-00-115-2307 | B-19 | 21 |
| 96906 | MS20392-7C81 | | B-4 | 9 | 96906 | MS27148-2 | 5999-00-057-2929 | B-4 | 26 |
| 96906 | MS20392-7C81 | 5315-00-778-9646 | B-6 | 9 | 96906 | MS27148-2 | 5999-00-057-2929 | B-4 | 44 |
| 96906 | MS20613-4P5 | 5320-00-753-3830 | B-26 | 7 | 96906 | MS27151-24 | 5310-00-489-5663 | B-18 | 9 |
| 96906 | MS20913-1S | 4730-00-221-2136 | B-7 | 20 | 96906 | MS27183-10 | 5310-00-809-4058 | B-24 | 26 |
| 96906 | MS20913-3J | | B-4 | 24 | 96906 | MS27183-12 | 5310-00-081-4219 | B-5 | 3 |
| 96906 | MS20913-3J | 4730-00-580-6740 | B-6 | 15 | 96906 | MS27183-12 | 5310-00-081-4219 | B-7 | 3 |
| 96906 | MS21003-19 | 5940-01-091-1520 | B-21 | 31 | 96906 | MS27183-13 | 5310-00-087-7493 | B-24 | 18 |
| 96906 | MS21042-5 | | B-8 | 9 | 96906 | MS27183-14 | 5310-00-080-6004 | B-25 | 12 |
| 96906 | MS21044-N5 | 5310-00-088-0553 | B-17 | 35 | 96906 | MS27183-17 | 5310-00-809-5997 | B-24 | 6 |
| 96906 | MS21044N5 | 5310-00-088-0553 | B-2 | 31 | 96906 | MS27183-18 | | B-4 | 7 |
| 96906 | MS21044N5 | 5310-00-088-0553 | B-3 | 13 | 96906 | MS27183-18 | 5310-00-809-5998 | B-6 | 7 |
| 96906 | MS21044N5 | 5310-00-088-0553 | B-11 | 12 | 96906 | MS27183-18 | 5310-00-809-5998 | B-23 | 24 |
| 96906 | MS21044N5 | 5310-00-088-0553 | B-12 | 12 | 96906 | MS27183-19 | 5310-00-809-3079 | B-24 | 15 |
| 96906 | MS21044N5 | 5310-00-088-0553 | B-16 | 25 | 96906 | MS27183-23 | 5310-00-809-8533 | B-23 | 12 |
| 96906 | MS21044N6 | 5310-00-950-0039 | B-5 | 18 | 96906 | MS27183-23 | 5310-00-809-8533 | B-24 | 4 |
| 96906 | MS21044N6 | 5310-00-950-0039 | B-7 | 33 | 96906 | MS27183-42 | 5310-00-014-5850 | B-19 | 33 |
| 96906 | MS21044N6 | 5310-00-950-0039 | B-12 | 18 | 96906 | MS27769-1 | 4730-00-277-6352 | B-9 | 16 |
| 96906 | MS21045-5 | 5310-00-982-4912 | B-10 | 19 | 96906 | MS28778-4 | 5330-00-805-2966 | B-9 | 3 |
| 96906 | MS21045-7 | 5310-00-274-9364 | B-3 | 32 | 96906 | MS28778-5 | 5330-00-803-7491 | B-9 | 23 |
| 96906 | MS21046-6 | 5310-00-982-4908 | B-3 | 36 | 96906 | MS3106R-14S-2S | 5935-00-813-4717 | B-20 | 54 |
| 96906 | MS21206-10 | 5310-01-124-6063 | B-5 | 26 | 96906 | MS3106R10SLSC | 5935-00-432-8967 | B-21 | 29 |
| 96906 | MS21206-10 | 5310-01-124-6063 | B-7 | 26 | 96906 | MS3106R10SL4SC | 5935-00-432-8967 | B-21 | 33 |
| 96906 | MS21318-27 | 5305-00-253-5618 | B-26 | 1 | 96906 | MS3367-1-9 | 5975-00-074-2072 | B-9 | 25 |
| 96906 | MS21318-27 | 5305-00-253-5618 | B-26 | 1 | 96906 | MS35206-227 | 5305-00-984-4984 | B-8 | 13 |
| 96906 | MS21333-102 | 5340-00-984-8540 | B-17 | 29 | 96906 | MS35206-231 | 5305-00-889-3001 | B-4 | 13 |
| 96906 | MS21333-102 | 5340-00-984-8540 | B-18 | 12 | 96906 | MS35206-243 | 5305-00-984-6191 | B-8 | 1 |
| 96906 | MS21333-104 | 5340-00-088-1254 | B-17 | 19 | 96906 | MS35206-245 | 5305-00-984-6193 | B-16 | 10 |
| 96906 | MS21333-108 | 5340-00-057-3025 | B-17 | 1 | 96906 | MS35265-45 | 5305-00-543-2752 | B-16 | 4 |
| 96906 | MS21333-108 | 5340-00-057-3025 | B-18 | 4 | 96906 | MS35265-45 | 5305-00-543-2752 | B-16 | 4 |
| 96906 | MS21333-109 | 5340-00-067-3868 | B-17 | 37 | 96906 | MS35265-63 | 5305-00-614-0274 | B-16 | 3 |
| 96906 | MS21333-110 | 5340-00-057-3034 | B-16 | 17 | 96906 | MS35265-63 | 5305-00-614-0274 | B-17 | 2 |
| 96906 | MS21333-111 | 5340-00-057-3037 | B-17 | 11 | 96906 | MS35333-37 | 5310-00-579-0079 | B-8 | 14 |
| 96906 | MS21333-112 | 5340-00-057-3043 | B-16 | 18 | 96906 | MS35333-38 | 5310-00-559-0070 | B-8 | 2 |
| 96906 | MS21333-112 | 5340-00-057-3043 | B-17 | 31 | 96906 | MS35333-40 | 5310-00-550-1130 | B-13 | 7 |
| 96906 | MS21333-113 | 5340-00-988-1162 | B-16 | 19 | 96906 | MS35333-40 | 5310-00-550-1130 | B-14 | 2 |
| 96906 | MS21333-113 | 5340-00-988-1162 | B-16 | 19 | 96906 | MS35333-40 | 5310-00-550-1130 | B-15 | 4 |
| 96906 | MS21333-118 | 5340-00-057-3029 | B-17 | 27 | 96906 | MS35333-40 | 5310-00-550-1130 | B-17 | 8 |
| 96906 | MS21333-118 | 5340-00-057-3029 | B-17 | 27 | 96906 | MS35333-41 | 5310-00-167-0721 | B-5 | 36 |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 96906 | MS35333-41 | 5310-00-167-0721 | B-7 | 37 | 96906 | MS51967-14 | 5310-00-768-0318 | B-24 | 12 |
| 96906 | MS35333-41 | 5310-00-167-0721 | B-16 | 20 | 96906 | MS51967-14 | 5310-00-768-0318 | B-27 | 3 |
| 96906 | MS35335-33 | 5310-00-209-0786 | B-4 | 50 | 96906 | MS51967-2 | 5310-00-761-6882 | B-13 | 1 |
| 96906 | MS35335-34 | 5310-00-514-6674 | B-16 | 1 | 96906 | MS51967-2 | 5310-00-761-6882 | B-14 | 4 |
| 96906 | MS35335-34 | 5310-00-514-6674 | B-17 | 3 | 96906 | MS51967-2 | 5310-00-761-6882 | B-15 | 1 |
| 96906 | MS35335-36 | 5310-00-550-3503 | B-16 | 1 | 96906 | MS51967-2 | | B-17 | 30 |
| 96906 | MS35335-58 | 5310-00-209-1366 | B-10 | 30 | 96906 | MS51967-2 | | B-18 | 6 |
| 96906 | MS35338-139 | 5310-00-933-8121 | B-6 | 23 | 96906 | MS51967-20 | 5310-00-763-8920 | B-5 | 28 |
| 96906 | MS35338-140 | 5305-00-974-6623 | B-6 | 19 | 96906 | MS51967-20 | 5310-00-763-8920 | B-7 | 28 |
| 96906 | MS35338-41 | 5310-00-045-4007 | B-4 | 12 | 96906 | MS51967-8 | 5310-00-732-0558 | B-16 | 28 |
| 96906 | MS35338-43 | 5310-00-045-3296 | B-16 | 8 | 96906 | MS51968-8 | 5310-00-732-0558 | B-25 | 19 |
| 96906 | MS35338-43 | 5310-00-045-3296 | B-17 | 5 | 96906 | MS51968-2 | 5310-00-768-0319 | B-24 | 11 |
| 96906 | MS35338-43 | 5310-00-045-3296 | B-19 | 34 | 96906 | MS51968-5 | 5310-00-880-7746 | B-5 | 5 |
| 96906 | MS35338-44 | 5310-00-582-5965 | B-14 | 5 | 96906 | MS51968-5 | 5310-00-880-7746 | B-7 | 5 |
| 96906 | MS35338-44 | 5310-00-582-5965 | B-24 | 10 | 96906 | MS51968-8 | 5310-00-732-0559 | B-5 | 34 |
| 96906 | MS35338-45 | 5310-00-407-9566 | B-4 | 55 | 96906 | MS51968-8 | 5310-00-732-0559 | B-7 | 35 |
| 96906 | MS35338-45 | 5310-00-407-9566 | B-5 | 4 | 96906 | MS51988-7 | 5310-00-930-8214 | B-24 | 5 |
| 96906 | MS35338-45 | 5310-00-407-9566 | B-6 | 28 | 96906 | MS51988-7 | 5310-00-930-8214 | B-25 | 10 |
| 96906 | MS35338-45 | 5310-00-407-9566 | B-7 | 4 | 96906 | MS521301A2-12-3 | | B-6 | 17 |
| 96906 | MS35338-46 | 5310-00-637-9541 | B-5 | 33 | 96906 | MS87006-13 | 4030-00-780-9350 | B-5 | 15 |
| 96906 | MS35338-46 | 5310-00-637-9541 | B-7 | 34 | 96906 | MS87006-13 | 4030-00-780-9350 | B-7 | 16 |
| 96906 | MS35338-46 | 5310-00-637-9541 | B-19 | 7 | 96906 | MS87006-3 | 4030-00-270-5436 | B-9 | 13 |
| 96906 | MS35338-46 | 5310-00-637-9541 | B-25 | 20 | 96906 | MS9021-154 | | B-8 | 5 |
| 96906 | MS35338-48 | 5310-00-584-5272 | B-24 | 13 | 96906 | MS9068-013 | 5330-00-724-7902 | B-9 | 20 |
| 96906 | MS35338-48 | 5310-00-584-5272 | B-27 | 4 | 96906 | MS9068-018 | 5330-00-724-5541 | B-9 | 19 |
| 80045 | MS35338-50 | 5310-00-820-6653 | B-23 | 28 | 96906 | MS9068-038 | 5330-00-180-9951 | B-9 | 18 |
| 96906 | MS35338-51 | 5310-00-584-7888 | B-24 | 3 | 96906 | MS90725-116 | 5305-00-071-1770 | B-24 | 14 |
| 96906 | MS35338-51 | 5310-00-584-7888 | B-25 | 5 | 96906 | MS90725-163 | 5303-00-724-5911 | B-23 | 29 |
| 96906 | MS35338-53 | 5310-00-584-7889 | B-27 | 1 | 96906 | MS90725-163 | 5303-00-724-5911 | B-23 | 33 |
| 96906 | MS35338-67 | 5310-00-011-6121 | B-23 | 3 | 96906 | MS90725-17 | 5305-00-071-2234 | B-14 | 8 |
| 96906 | MS35338-70 | 5310-00-011-6124 | B-23 | 6 | 96906 | MS90725-3 | 5305-00-068-0500 | B-16 | 21 |
| 96906 | MS35446-7 | 5940-00-808-9212 | B-19 | 10 | 96906 | MS90725-3 | 5305-00-068-0500 | B-17 | 22 |
| 96906 | MS35489-27 | 5325-00-290-1960 | B-18 | 1 | 96906 | MS90725-3 | 5305-00-068-0500 | B-18 | 13 |
| 96906 | MS35648-202 | 5310-00-934-9758 | B-16 | 9 | 96906 | MS90725-32 | 5306-00-225-8497 | B-5 | 35 |
| 96906 | MS35649-202 | 5310-00-934-9758 | B-17 | 6 | 96906 | MS90725-32 | 5306-00-225-8497 | B-7 | 36 |
| 96906 | MS35649-202 | 5310-00-934-9758 | B-19 | 35 | 96906 | MS90725-33 | 5306-00-225-8498 | B-4 | 61 |
| 96906 | MS35649-264 | 5310-00-934-9761 | B-10 | 31 | 96906 | MS90725-33 | 5306-00-225-8498 | B-6 | 29 |
| 96906 | MS35649-282 | 5310-00-934-9757 | B-16 | 7 | 96906 | MS90725-4 | 5305-00-225-3838 | B-17 | 21 |
| 96906 | MS35649-282 | 5310-00-934-9757 | B-16 | 7 | 96906 | MS90725-5 | 5305-00-068-0501 | B-4 | 51 |
| 96906 | MS35690-1004 | 5310-00-957-0022 | B-23 | 15 | 96906 | MS90725-62 | 5305-00-269-3213 | B-16 | 31 |
| 96906 | MS35763-833 | 5306-00-145-0876 | B-12 | 2 | 96906 | MS90725-62 | 5305-00-269-3213 | B-24 | 24 |
| 96906 | MS35763-833 | 5306-00-145-0876 | B-24 | 17 | 96906 | MS90725-62 | 5303-00-269-3213 | B-25 | 13 |
| 96906 | MS35764-1289 | 5306-01-017-2566 | B-25 | 18 | 96906 | MS90726-235 | 5305-00-958-8475 | B-27 | 2 |
| 96906 | MS35842-12 | 4730-00-908-3193 | B-4 | 41 | 96906 | MS90726-31 | 5306-00-225-9086 | B-2 | 34 |
| 96906 | MS35842-13 | 4730-00-909-8627 | B-2 | 25 | 96906 | MS90726-33 | 5306-00-225-9088 | B-16 | 34 |
| 96906 | MS35842-13 | 4730-00-909-8627 | B-6 | 16 | 96906 | MS90726-33 | 5306-00-225-9088 | B-17 | 15 |
| 96906 | MS35842-13 | 4730-00-909-8627 | B-10 | 5 | 96906 | MS90726-36 | 5305-00-225-9091 | B-16 | 2 |
| 96906 | MS45904-76 | 5310-00-061-1258 | B-16 | 35 | 96906 | MS90726-36 | 5305-00-225-9091 | B-16 | 2 |
| 96906 | MS51096-59 | 5305-00-912-5113 | B-3 | 31 | 96906 | MS90726-36 | 5305-00-225-9091 | B-17 | 26 |
| 96906 | MS51500A5-4S | 4730-00-020-9973 | B-28 | 7 | 96906 | MS90726-57 | 5305-00-269-2800 | B-19 | 8 |
| 96906 | MS51525A4 | 4730-01-007-5232 | B-9 | 2 | 96906 | MS90726-6 | 5305-00-068-0506 | B-10 | 8 |
| 96906 | MS51525A5 | 4730-00-431-9307 | B-9 | 24 | 96906 | MS90726-63 | 5305-00-269-2806 | B-12 | 8 |
| 96906 | MS51815-8 | 4730-01-003-6044 | B-10 | 37 | 96906 | MS90726-65 | 5305-00-269-2808 | B-16 | 15 |
| 96906 | MS51820-6P | 4730-00-993-5002 | B-10 | 34 | 96906 | MS90726-65 | 5305-00-269-2808 | B-16 | 15 |
| 96906 | MS51849-78 | 5305-00-240-6668 | B-19 | 32 | 96906 | MS90726-65 | 5305-00-269-2808 | B-17 | 33 |
| 96906 | MS51864-104-16 | 5307-01-006-5515 | B-5 | 41 | 96906 | MS90726-7 | 5305-00-068-0507 | B-24 | 25 |
| 96906 | MS51864-104-16 | 5307-01-006-5515 | B-7 | 42 | 96906 | MS90726-8 | 5305-00-267-8974 | B-24 | 20 |
| 96906 | MS51922-33 | 5310-00-225-6993 | B-25 | 3 | 96906 | MS90727-32 | 5306-00-050-1238 | B-2 | 15 |
| 96906 | MS51943-36 | 5310-00-814-0672 | B-7 | 19 | 96906 | MS90727-32 | 5306-00-050-1238 | B-10 | 15 |
| 96906 | MS51957-28 | 5305-00-054-6652 | B-10 | 1 | 96906 | MS90727-32 | 5306-00-050-1238 | B-16 | 13 |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 96906 | MS90727-32 | 5306-00-050-1238 | B-17 | 24 | 19207 | 10863625 | | B-4 | 23 |
| 96906 | MS90727-34 | 5305-00-051-4076 | B-2 | 28 | 19207 | 10863625 | 4730-00-678-4749 | B-6 | 14 |
| 96906 | MS90727-35 | 5306-00-051-4077 | B-17 | 4 | 19207 | 10863629 | 5305-00-678-6195 | B-23 | 7 |
| 96906 | MS90727-4 | 5305-00-068-0512 | B-9 | 7 | 19207 | 10863630 | 5303-00-678-6196 | B-23 | 21 |
| 96906 | MS90727-5 | 5305-00-267-8953 | B-17 | 7 | 19207 | 10863816 | 5340-00-959-8422 | B-16 | 32 |
| 96906 | MS90727-65 | | B-12 | 7 | 19207 | 10863816 | 5340-00-959-8422 | B-17 | 23 |
| 96906 | MS90727-65 | 5305-00-914-6131 | B-12 | 15 | 19207 | 10863870 | 5330-00-678-3489 | B-5 | 38 |
| 96906 | MS90727-66 | 5305-00-269-3242 | B-12 | 14 | 19207 | 10863870 | 5330-00-678-3489 | B-7 | 39 |
| 96906 | MS90728-112 | 5305-00-071-2068 | B-25 | 2 | 19207 | 10863874 | 2940-00-168-2246 | B-5 | 30 |
| 96906 | MS90728-113 | 5305-00-071-2069 | B-23 | 2 | 19207 | 10863964 | 2510-00-997-4524 | B-23 | 22 |
| 96906 | MS90728-16 | 5305-00-071-2513 | B-13 | 6 | 19207 | 10863965 | 2510-00-080-7552 | B-23 | 8 |
| 96906 | MS90728-16 | 5303-00-071-2513 | B-15 | 5 | 19207 | 10864007 | 5330-00-678-4712 | B-10 | 35 |
| 96906 | MS90728-165 | 5305-00-724-7223 | B-5 | 25 | 19207 | 10864043 | 2510-00-927-3305 | B-23 | 1 |
| 96906 | MS90728-165 | 5305-00-724-7223 | B-7 | 25 | 19207 | 10864146 | 2510-00-226-2131 | B-23 | 20 |
| 96906 | MS90728-183 | 5305-00-947-4352 | B-24 | 2 | 19207 | 10864147 | 2510-00-115-4327 | B-23 | 9 |
| 96906 | MS90728-183 | 5305-00-947-4352 | B-25 | 6 | 19207 | 10864205 | 2510-00-105-6155 | B-23 | 19 |
| 96906 | MS90728-29 | 5306-00-226-4822 | B-6 | 20 | 19207 | 10864206 | 2510-00-105-6154 | B-23 | 10 |
| 96906 | MS90728-31 | 5306-00-226-4824 | B-4 | 56 | 19207 | 10865247 | 2930-00-453-5376 | B-11 | 14 |
| 96906 | MS90728-5 | 5305-00-068-7837 | B-14 | 3 | 19207 | 10865250 | 2930-00-436-3208 | B-11 | 16 |
| 96906 | MS90728-6 | 5305-00-068-0508 | B-6 | 24 | 19207 | 10865251 | | B-11 | 17 |
| 96906 | MS90728-60 | 5305-00-068-0510 | B-25 | 7 | 19207 | 10865252 | 2930-00-436-3197 | B-11 | 21 |
| 96906 | MS9320-11 | 5310-00-194-0636 | B-9 | 11 | 19207 | 10865252 | | B-11 | 22 |
| 96906 | MS9388-327 | 5330-01-013-7132 | B-2 | 35 | 19207 | 10865267 | 2815-00-177-8216 | B-11 | 9 |
| 81349 | M13436/1-1 | 9905-00-752-4649 | B-19 | 22 | 19207 | 10865268 | 2930-00-107-1221 | B-11 | 4 |
| 81349 | M13486/1-14 | | B-19 | 15 | 19207 | 10865272 | 2815-00-446-1757 | B-11 | 1 |
| 81349 | M13486/1-14 | | B-22 | 8 | 19207 | 10865277 | 2930-00-998-4724 | B-11 | 13 |
| 81349 | M13486/1-14 | 6145-00-705-6674BULK | | | 19207 | 10870861 | 5330-00-729-5049 | B-5 | 10 |
| 81349 | M13486/1-15 | | B-19 | 13 | 19207 | 10870861 | 5330-00-729-5049 | B-7 | 10 |
| 81349 | M13486/1-15 | 6145-00-254-6117BULK | | | 19207 | 10870919 | 2940-00-886-5841 | B-8 | 11 |
| 19207 | M13486/1-3 | | B-20 | 27 | 19207 | 10870920 | 2920-00-103-9397 | B-8 | 3 |
| 81349 | M13486/1-3 | 6145-00-161-1609BULK | | | 19207 | 10882750 | 5306-00-413-4373 | B-12 | 9 |
| 81349 | M13486/1-5 | | B-4 | 18 | 19207 | 10882760 | | B-11 | 10 |
| 81349 | M13486/1-5 | | B-4 | 31 | 19207 | 10882765 | 2920-00-455-5835 | B-12 | 11 |
| 81349 | M13486/1-5 | | B-4 | 48 | 19207 | 10882826 | 9905-00-407-5099 | B-26 | 6 |
| 81349 | M13486/1-5 | | B-19 | 23 | 19207 | 10887138 | 2590-00-839-0156 | B-24 | 21 |
| 81349 | M13486/1-5 | | B-20 | 52 | 19207 | 10889713 | 2920-00-830-6660 | B-12 | 17 |
| 81349 | M13486/1-5 | | B-22 | 9 | 19207 | 10898794 | 4720-00-896-6166 | B-10 | 40 |
| 81349 | M13486/1-5 | 6145-00-152-6499BULK | | | 19207 | 10898844 | | B-8 | 19 |
| 81349 | M13516/1-1 | 5925-00-026-4767 | B-4 | 11 | 19207 | 10905006 | 6105-00-801-8716 | B-8 | 17 |
| 96906 | M220913-1S | 4730-00-221-2136 | B-5 | 19 | 19207 | 10905009 | 2940-00-930-8765 | B-8 | 10 |
| 81349 | M4109-140800C | | B-28 | 2 | 19207 | 10905010 | 4140-00-016-2615 | B-4 | 52 |
| 81349 | M4109-60800C | | B-28 | 1 | 19207 | 10910174-16 | 5310-00-987-1294 | B-25 | 8 |
| 81349 | M43436/1-1 | 9905-00-752-4649 | B-4 | 19 | 19207 | 10910174-18 | 5310-00-964-8588 | B-5 | 27 |
| 81349 | M43436/1-1 | 9905-00-752-4649 | B-4 | 29 | 19207 | 10910174-18 | 5310-00-964-8588 | B-7 | 27 |
| 81349 | M43436/1-1 | 9905-00-752-4649 | B-4 | 47 | 19207 | 10910174-22 | 5310-00-728-9957 | B-25 | 15 |
| 81349 | M43436/1-1 | 9905-00-752-4649 | B-21 | 18 | 19207 | 10912269 | 8145-00-856-8147 | B-1 | 2 |
| 81349 | M43436/1-1 | 9905-00-752-4649 | B-21 | 18 | 19207 | 10916561 | 5303-01-115-1847 | B-23 | 18 |
| 81349 | M43436/1-3 | 9905-00-893-3570 | B-19 | 12 | 19207 | 10916563 | | B-23 | 14 |
| 81349 | M43436/1-3 | 9905-00-893-3570 | B-20 | 43 | 19207 | 10924454 | 2510-00-014-2483 | B-23 | 4 |
| 81349 | M43436/1-3 | 9905-00-893-3570 | B-21 | 3 | 19207 | 10933723 | 5330-00-078-4714 | B-4 | 40 |
| 81349 | M43436/1-3 | 9905-00-893-3570 | B-21 | 19 | 19207 | 10933966 | | B-8 | 7 |
| 81349 | M43436/1-3 | 9905-00-893-3570 | B-22 | 7 | 19207 | 10933967 | | B-8 | 8 |
| 81349 | M43436/5-1 | 9905-01-056-8812 | B-28 | 4 | 19207 | 10933968 | 2940-00-043-0279 | B-8 | 16 |
| 81348 | RRC271 | | B-5 | 16 | 19207 | 10934405 | | B-8 | 4 |
| 81348 | RRC271 | | B-7 | 17 | 19207 | 10935282-2 | 4720-01-095-2429 | B-10 | 6 |
| 21450 | RRC271-1-5C2-13 | 4010-00-165-6064BULK | | | 19207 | 10935447 | 5325-00-182-4707 | B-11 | 24 |
| 77820 | 10-74936-3 | 5935-00-107-1273 | B-22 | 6 | 19207 | 10935614 | 5360-00-410-5836 | B-2 | 5 |
| 19207 | 10863589 | 2590-00-974-9216 | B-4 | 43 | 19207 | 10935614 | 5360-00-410-5836 | B-2 | 13 |
| 19207 | 10863598 | 5340-00-107-4286 | B-17 | 28 | 19207 | 10935619 | | B-2 | 7 |
| 19207 | 10863598 | 5340-00-107-4286 | B-18 | 11 | 19207 | 10935621 | 5330-00-410-9803 | B-2 | 36 |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 19207 | 10935623 | 2815-00-406-4621 | B-2 | 1 | 19207 | 11669740 | 2940-01-142-8260 | B-6 | 10 |
| 19207 | 10940163 | 2590-00-978-7335 | B-4 | 25 | 19207 | 11673847 | 2815-00-397-3311 | B-17 | 25 |
| 19207 | 10940255 | 5365-00-105-6138 | B-24 | 23 | 19207 | 11673848 | 2920-00-398-7097 | B-16 | 5 |
| 19207 | 10940256-1 | 2510-00-757-2749 | B-24 | 22 | 19207 | 11673850 | 6150-00-476-0381 | B-16 | 30 |
| 19207 | 10940256-2 | 2510-00-757-2750 | B-24 | 22 | 19207 | 11673851 | 2920-00-466-7464 | B-16 | 11 |
| 19207 | 10940260-1 | 2510-00-105-6144 | B-24 | 16 | 19207 | 11673852 | 2815-00-397-3283 | B-16 | 26 |
| 19207 | 10940260-2 | 2510-00-119-3907 | B-24 | 16 | 19207 | 11673853 | 2815-00-394-9701 | B-16 | 24 |
| 19207 | 10940267 | 2590-01-016-2024 | B-24 | 8 | 19207 | 11673854 | 2815-00-394-9690 | B-17 | 34 |
| 19207 | 10940271 | 2510-00-105-9917 | B-24 | 9 | 19207 | 11673855 | 2815-00-475-8216 | B-17 | 16 |
| 19207 | 10940272-1 | 2510-00-930-2034 | B-24 | 7 | 19207 | 11673856 | 6150-00-476-0371 | B-16 | 36 |
| 19207 | 10940272-2 | 2510-00-930-2035 | B-24 | 7 | 19207 | 11674728 | 5935-01-059-0117 | B-19 | 2 |
| 19207 | 10952209 | 2510-00-930-3226 | B-24 | 1 | 19207 | 11674729 | 5330-01-059-4286 | B-19 | 5 |
| 11920 | 10952213 | 2510-00-930-3229 | B-24 | 1 | 19207 | 11674730 | 5970-01-044-8391 | B-19 | 6 |
| 25184 | 110 5-16 | 5330-00-530-2772 | B-2 | 29 | 19207 | 11675004 | 5340-01-059-0114 | B-19 | 3 |
| 89954 | 11382363P6 | 5310-00-167-0816 | B-26 | 2 | 19207 | 11676228 | 5940-00-030-7275 | B-19 | 24 |
| 19207 | 11591585 | 5330-00-930-1624 | B-5 | 39 | 19207 | 11682345 | | B-19 | 4 |
| 19207 | 11591586 | 2940-00-045-6873 | B-5 | 42 | 19207 | 11682595 | 2590-00-499-1782 | B-12 | 16 |
| 19207 | 11602731 | 5935-00-107-1275 | B-19 | 18 | 19207 | 11682595-2 | 2590-01-008-1441 | B-21 | 13 |
| 19207 | 11602737 | 5935-00-134-0373 | B-22 | 2 | 19207 | 11682595-2 | 2590-01-008-1441 | B-21 | 13 |
| 19207 | 11608144-1 | 2940-00-105-2804 | B-5 | 2 | 19207 | 11682725 | 2815-00-410-1150 | B-16 | 5 |
| 19207 | 11608144-2 | 2940-00-105-2805 | B-5 | 2 | 19207 | 11682768 | 2930-01-005-1549 | B-3 | 39 |
| 19207 | 11626375 | 5315-00-456-5948 | B-23 | 26 | 19207 | 11683939 | 2815-00-399-5301 | B-3 | 3 |
| 19207 | 11626427 | 5420-01-085-7003 | B-23 | 27 | 19207 | 11683941 | 2815-00-432-0056 | B-3 | 38 |
| 19207 | 11630499-1 | 4730-00-908-3193 | B-10 | 39 | 19207 | 11683942 | 2815-00-398-6726 | B-11 | 21 |
| 19207 | 11637698-1 | 2510-00-256-5530 | B-24 | 19 | 19207 | 11683942-1 | | B-11 | 22 |
| 19207 | 11637698-2 | 2510-00-256-5531 | B-24 | 19 | 19207 | 11683954 | 2520-00-394-9713 | B-3 | 35 |
| 19207 | 11641919 | 2990-00-193-8211 | B-11 | 15 | 19207 | 11683967 | 9905-01-021-2825 | B-26 | 3 |
| 19207 | 11641922 | 2815-00-406-4615 | B-2 | 8 | 19207 | 11683977 | | B-11 | 6 |
| 19207 | 11641923 | | B-2 | 14 | 19207 | 11683977 | 2815-00-410-1131 | B-11 | 8 |
| 19207 | 11641927 | 4710-00-192-9436 | B-2 | 27 | 19207 | 11683984 | 2815-00-397-3313 | B-3 | 37 |
| 19207 | 11641928 | 5340-00-409-2055 | B-2 | 39 | 19207 | 11683985 | 2815-00-394-9700 | B-3 | 9 |
| 19207 | 11644992-1 | | B-22 | 10 | 19207 | 11683985-1 | | B-3 | 10 |
| 19207 | 11644992-1 | 9330-01-047-4313 | BULK | | 19207 | 11684006 | 6680-00-423-4051 | B-2 | 32 |
| 19207 | 11654554-1 | 2510-00-487-9469 | B-23 | 23 | 19207 | 11684017 | 2815-00-394-9706 | B-3 | 1 |
| 19207 | 11654555 | 2510-01-082-3809 | B-23 | 5 | 19207 | 11684018 | 2815-00-399-5302 | B-2 | 33 |
| 19207 | 11654843 | 5310-00-625-3115 | B-25 | 11 | 19207 | 11684041 | 2930-00-392-9515 | B-3 | 14 |
| 19207 | 11655113-1 | 5340-01-006-4586 | B-25 | 17 | 19207 | 11684041-1 | | B-3 | 15 |
| 19207 | 11655113-2 | 5340-00-571-7067 | B-25 | 17 | 19207 | 11684048 | 2930-00-392-9547 | B-3 | 25 |
| 19207 | 11655454 | 2590-00-423-3622 | B-21 | 1 | 19207 | 11684048-1 | | B-3 | 29 |
| 19207 | 11655469 | 2920-00-441-8137 | B-12 | 1 | 19207 | 11684079-1 | | B-3 | 17 |
| 19207 | 11657469-3 | 5310-00-582-5965 | B-9 | 6 | 19207 | 11684079-1 | | B-3 | 26 |
| 19207 | 11657469-3 | 5310-00-582-5965 | B-10 | 9 | 19207 | 11684079-2 | | B-3 | 19 |
| 19207 | 11657469-3 | 5310-00-582-5965 | B-16 | 22 | 19207 | 11684079-2 | | B-3 | 27 |
| 19207 | 11657469-3 | 5310-00-582-5965 | B-17 | 20 | 19207 | 11684079-3 | | B-3 | 18 |
| 19207 | 11657469-3 | 5310-00-582-5965 | B-18 | 10 | 19207 | 11684079-3 | | B-3 | 28 |
| 19207 | 11659642-67 | 9905-01-051-5290 | B-4 | 63 | 19207 | 11684093-1 | 5310-00-486-0406 | B-3 | 11 |
| 19207 | 11659642-68 | 9905-01-051-5289 | B-4 | 63 | 19207 | 11684093-1 | 5310-00-486-0406 | B-3 | 16 |
| 19207 | 11659642-73 | | B-6 | 30 | 19207 | 11684093-1 | 5310-00-486-0406 | B-3 | 30 |
| 19207 | 11659642-74 | | B-6 | 30 | 19207 | 11684093-1 | 5310-00-486-0406 | B-11 | 5 |
| 19207 | 11659652 | 5307-00-218-8179 | B-4 | 21 | 19207 | 11684093-1 | 5310-00-486-0406 | B-11 | 11 |
| 19207 | 116597-11-1 | 2510-00-455-1351 | B-25 | 16 | 19207 | 11684093-1 | 5310-00-486-0406 | B-11 | 18 |
| 19207 | 11659711-2 | 2510-00-455-1352 | B-25 | 16 | 19207 | 11684093-1 | 5310-00-486-0406 | B-11 | 23 |
| 19207 | 11669029-1 | 6685-01-055-5116 | B-5 | 17 | 19207 | 11684093-2 | 5310-00-486-0412 | B-3 | 24 |
| 19207 | 11669683 | 4730-01-132-9086 | B-5 | 23 | 19207 | 11684106 | 5365-00-486-0405 | B-3 | 33 |
| 19207 | 11669683 | 4730-01-132-9086 | B-7 | 13 | 19207 | 11684132 | 2815-00-410-1045 | B-3 | 8 |
| 19207 | 11669704 | | B-8 | 21 | 19207 | 11684134 | 9905-01-026-9951 | B-26 | 3 |
| 19207 | 11669717 | 5895-01-134-8291 | B-5 | 17 | 19207 | 11684162 | 5340-01-048-6052 | B-12 | 4 |
| 19207 | 11669717 | 5895-01-134-8291 | B-7 | 18 | 19207 | 11684234 | 2930-01-005-1550 | B-3 | 20 |
| 19207 | 11669724 | | B-8 | 18 | 19207 | 11684246 | 5340-01-010-8946 | B-3 | 22 |
| 19207 | 11669740 | | B-4 | 10 | 19207 | 11684246-1 | | B-3 | 23 |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
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| 19207 | 11684276-2 | 5340-01-030-6928 | B-17 | 18 | 19207 | 12275861 | 5350-01-145-8303 | B-10 | 22 |
| 19207 | 11685057 | 2920-00-398-6540 | B-12 | 5 | 19207 | 12275864 | | B-9 | 8 |
| 19207 | 12251898 | 9320-01-017-2743 | B-4 | 53 | 19207 | 12275866-1 | 5305-01-145-8286 | B-9 | 9 |
| 19207 | 12251902 | 5330-01-035-9825 | B-4 | 59 | 19207 | 12275866-2 | 5305-01-145-8287 | B-9 | 10 |
| 19207 | 12251902 | 5330-01-035-9825 | B-6 | 26 | 19207 | 12275867 | 4030-01-145-8293 | B-9 | 12 |
| 19207 | 12251904 | 5340-01-031-0420 | B-4 | 60 | 19207 | 12275868 | 5340-01-145-8291 | B-9 | 22 |
| 19207 | 12251905 | 5340-01-016-4782 | B-4 | 57 | 19207 | 12275869 | 5340-01-145-8310 | B-9 | 17 |
| 19207 | 12251907 | 4720-01-022-6070 | B-4 | 42 | 19207 | 12275870 | 5340-01-145-8262 | B-9 | 5 |
| 19207 | 12251908 | | B-4 | 4 | 19207 | 12275880 | 4710-01-150-4822 | B-10 | 41 |
| 19207 | 12251908 | | B-6 | 4 | 19207 | 12275883 | 4720-01-146-1887 | B-10 | 12 |
| 19207 | 12251910 | 5340-01-016-4429 | B-4 | 2 | 19207 | 12275889 | 5640-01-146-1898 | B-10 | 3 |
| 19207 | 12251910 | 5340-01-016-4429 | B-6 | 2 | 19207 | 12275890 | 5640-01-146-1889 | B-10 | 32 |
| 19207 | 12251911-1 | | B-4 | 22 | 19207 | 12275891 | 5640-01-146-1890 | B-10 | 26 |
| 19207 | 12251911-2 | | B-4 | 22 | 19207 | 12275892 | 5640-01-146-1891 | B-10 | 29 |
| 19207 | 12251912 | 5340-01-028-5260 | B-4 | 54 | 19207 | 12275894 | 5310-01-151-2732 | B-10 | 27 |
| 19204 | 12251922-1 | 2940-01-035-9827 | B-4 | 1 | 19207 | 12290526-1 | 2510-00-074-8285 | B-25 | 1 |
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| 19207 | 12252143 | | B-5 | 13 | 19207 | 12290527-1 | 2510-01-174-9585 | B-25 | 4 |
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| 19207 | 12252352-1 | | B-7 | 23 | 19207 | 12290914 | | B-4 | 5 |
| 19207 | 12252352-2 | | B-5 | 22 | 19207 | 12290914 | 5306-01-091-3384 | B-4 | 64 |
| 19207 | 12252352-2 | | B-7 | 23 | 19207 | 12290914 | 5306-01-091-3384 | B-6 | 5 |
| 19207 | 12252354-1 | 2940-01-037-4976 | B-5 | 20 | 19207 | 12290914 | 5306-01-091-3384 | B-6 | 32 |
| 19207 | 12252354-2 | 2940-01-037-4977 | B-5 | 20 | 19207 | 12301743 | | B-28 | 3 |
| 19207 | 12252365 | 4730-01-043-7679 | B-5 | 14 | 19207 | 12301778 | | B-28 | 5 |
| 19207 | 12252365 | 4730-01-043-7679 | B-7 | 15 | 19207 | 12304136 | 5330-01-129-0642 | B-4 | 3 |
| 19207 | 12252675 | 7690-01-038-7440 | B-4 | 62 | 19207 | 12304136 | 5330-01-129-0642 | B-6 | 3 |
| 19207 | 12252675 | 7690-01-038-7440 | B-6 | 31 | 19207 | 12304168 | 5330-01-128-5650 | B-5 | 24 |
| 19207 | 12254292 | 2930-01-038-8296 | B-3 | 21 | 19207 | 12304168 | 5330-01-128-5650 | B-7 | 24 |
| 19207 | 12254369 | 5340-01-081-1686 | B-16 | 33 | 19207 | 12304169-1 | 5307-01-128-5681 | B-6 | 11 |
| 19207 | 12254369 | 5340-01-081-1686 | B-17 | 13 | 19207 | 12304169-2 | 5307-01-128-5682 | B-6 | 12 |
| 19207 | 12254374 | 2920-01-065-2016 | B-17 | 10 | 19207 | 12304176 | | B-5 | 13 |
| 19207 | 12257172 | | B-19 | 14 | 19207 | 12304176 | | B-7 | 14 |
| 19207 | 12257502-1 | 2510-01-082-3810 | B-23 | 20 | 19207 | 12304177 | | B-5 | 21 |
| 19207 | 12257502-2 | 2510-01-082-3811 | B-23 | 9 | 19207 | 12304177 | | B-7 | 22 |
| 19207 | 12257503-1 | 2510-01-082-3812 | B-23 | 19 | 19207 | 12304178-1 | 4730-01-134-1957 | B-5 | 20 |
| 19207 | 12257503-2 | 2510-01-082-3813 | B-23 | 10 | 19207 | 12304178-1 | 4730-01-134-1957 | B-7 | 21 |
| 19207 | 12257511 | | B-23 | 30 | 19207 | 12304178-2 | 4730-01-134-1958 | B-5 | 20 |
| 19207 | 12257511-1 | | B-23 | 31 | 19207 | 12304178-2 | 4730-01-134-1958 | B-7 | 21 |
| 19207 | 12257993 | 2940-01-080-8023 | B-5 | 30 | 19207 | 12304190 | | B-8 | 22 |
| 19207 | 12257999 | 5935-01-062-5653 | B-19 | 9 | 19207 | 12304299 | 5330-01-158-2069 | B-7 | 40 |
| 19207 | 12270348 | 6105-01-092-1484 | B-8 | 17 | 19207 | 12304306 | 4730-01-144-4887 | B-7 | 30 |
| 19207 | 12271064 | | B-5 | 11 | 19207 | 12304307 | 2940-01-144-4872 | B-7 | 44 |
| 19207 | 12271064 | | B-7 | 11 | 19207 | 12304309 | 4730-01-144-4888 | B-7 | 30 |
| 19207 | 12271066 | 4720-01-119-7779 | B-5 | 9 | 19207 | 12304318 | 5330-01-152-2486 | B-6 | 22 |
| 19207 | 12271066 | 4720-01-119-7779 | B-7 | 9 | 19207 | 12304319 | 2815-01-137-3895 | B-6 | 21 |
| 19207 | 12271066-1 | | B-5 | 12 | 19207 | 12304324 | 5340-01-152-2515 | B-6 | 18 |
| 19207 | 12271066-1 | | B-7 | 12 | 19207 | 12304325 | 5330-01-152-2487 | B-6 | 22 |
| 19207 | 12271067 | 4720-01-121-1542 | B-5 | 7 | 19207 | 12304329 | 2815-01-154-1396 | B-6 | 21 |
| 19207 | 12271067 | 4720-01-121-1542 | B-7 | 7 | 19207 | 12304341-1 | 4730-01-144-4889 | B-7 | 2 |
| 19207 | 12275727 | 2520-01-073-4085 | B-11 | 3 | 19207 | 12304341-2 | 4730-01-144-4890 | B-7 | 2 |
| 19207 | 12275732 | 2920-01-073-4328 | B-21 | 14 | 19207 | 12314561 | 5340-01-146-1895 | B-10 | 23 |
| 19207 | 12275797 | 2590-01-145-4316 | B-12 | 10 | 19207 | 12314564 | 4710-01-146-1909 | B-10 | 20 |
| 19207 | 12275822 | 5340-01-145-8301 | B-10 | 18 | 19207 | 12314565 | 4710-01-146-1900 | B-10 | 25 |
| 19207 | 12275823 | 5340-01-145-8302 | B-10 | 36 | 19207 | 12314568 | 4710-01-146-1910 | B-10 | 14 |
| 19207 | 12275824 | 5330-01-145-8290 | B-10 | 10 | 19207 | 12314569 | 4710-01-146-1901 | B-10 | 7 |
| 19207 | 12275831 | 4710-01-145-8311 | B-10 | 33 | 19207 | 12314574 | 4720-01-146-1888 | B-10 | 13 |
| 19207 | 12275840 | 4460-01-145-8299 | B-9 | 21 | 19207 | 12314591 | 5340-01-145-8307 | B-2 | 39 |
| 19207 | 12275841 | 4010-01-157-1343 | B-9 | 14 | 19207 | 12314592 | | B-2 | 14 |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
|-------|--------------|-----------------------|------------|----------|-------|-------------|-----------------------|------------|----------|
| 19207 | 12314593 | 2815-01-145-8312 | B-2 | 8 | 19207 | 7056661 | 5330-00-705-6661 | B-4 | 37 |
| 19207 | 12314598 | 2590-01-152-8806 | B-11 | 13 | 19207 | 7056674 | 6145-00-705-6674 | B-21 | 4 |
| 19207 | 12314599 | 2590-01-152-7118 | B-11 | 1 | 19207 | 7056674 | 6145-00-705-6674 | B-21 | 17 |
| 19207 | 12314611 | 2815-01-149-1353 | B-1 | 3 | 19207 | 7056706 | 5940-00-705-6706 | B-20 | 41 |
| 19207 | 12314617 | 9905-01-160-2693 | B-26 | 3 | 19207 | 7056707 | 5940-00-705-6707 | B-20 | 40 |
| 19207 | 12314619 | 6150-01-150-9771 | B-21 | 14 | 19207 | 7056709 | 5940-00-705-6709 | B-4 | 49 |
| 19207 | 12314637 | | B-10 | 16 | 19207 | 7056709 | 5940-00-705-6709 | B-20 | 5 |
| 19207 | 12314641 | | B-1 | 3 | 19207 | 7057332-3 | 5340-00-178-6077 | B-16 | 16 |
| 19207 | 12314646 | | B-26 | 3 | 19207 | 7057352 | 5310-00-705-7352 | B-4 | 36 |
| 19207 | 12325884 | 5340-01-152-2541 | B-23 | 4 | 19207 | 7064586 | 5935-00-677-4444 | B-20 | 4 |
| 19207 | 12325885-1 | | B-6 | 13 | 19207 | 7347734 | 5310-00-045-3299 | B-16 | 6 |
| 19207 | 12325885-2 | | B-6 | 13 | 19207 | 7347734 | 5310-00-045-3299 | B-16 | 6 |
| 19207 | 12325888-1 | 2940-01-152-2386 | B-6 | 1 | 19207 | 7351617 | 5340-00-735-1617 | B-18 | 3 |
| 19207 | 12325888-2 | 2940-01-152-2387 | B-6 | 1 | 19207 | 7351807 | 5340-00-281-4425 | B-18 | 5 |
| 19207 | 12325889 | 5340-01-152-2543 | B-6 | 27 | 19207 | 7355520 | 5940-00-735-5520 | B-21 | 2 |
| 19207 | 12325890 | 5340-01-152-2542 | B-23 | 1 | 19207 | 7355520 | 5940-00-735-5520 | B-21 | 15 |
| 19207 | 12325914 | 5340-01-152-2514 | B-13 | 4 | 19207 | 7383632 | 2590-00-606-2346 | B-4 | 14 |
| 19207 | 12325915 | 5365-01-152-2538 | B-13 | 5 | 19207 | 7388353 | 5935-00-754-9080 | B-21 | 23 |
| 19207 | 12325926 | 2920-01-152-2559 | B-20 | 1 | 19207 | 7388355 | 5935-00-729-8217 | B-22 | 11 |
| 19207 | 12325931 | 2920-01-152-2385 | B-13 | 2 | 19207 | 7388356 | 5365-00-682-2043 | B-21 | 7 |
| 19207 | 12325931 | 2920-01-152-2385 | B-14 | 6 | 19207 | 7388356 | 5365-00-682-2043 | B-21 | 22 |
| 19207 | 12325931 | 2920-01-152-2385 | B-15 | 2 | 19207 | 7388356 | 5365-00-682-2043 | B-22 | 12 |
| 19207 | 12325932 | 2920-01-152-2560 | B-19 | 1 | 19207 | 7410218 | 5310-00-407-9566 | B-2 | 38 |
| 19207 | 12325933 | 2920-01-152-2412 | B-22 | 1 | 19207 | 7410218 | 5310-00-407-9566 | B-10 | 21 |
| 19207 | 12326087 | | B-23 | 4 | 19207 | 7410218 | 5310-00-407-9566 | B-16 | 12 |
| 19207 | 12326091 | | B-23 | 1 | 19207 | 7410218 | 5310-00-407-9566 | B-17 | 12 |
| 19207 | 12326097 | | B-14 | 1 | 19207 | 7414584 | 5306-00-741-4584 | B-3 | 4 |
| 19207 | 12326119 | | B-27 | 6 | 19207 | 7414584 | 5306-00-741-4584 | B-3 | 4 |
| 19207 | 12326130 | | B-28 | 8 | 19207 | 7414584 | 5306-00-741-4584 | B-11 | 20 |
| 19207 | 12326131 | | B-28 | 6 | 19207 | 7527643 | 5975-00-697-6991 | B-20 | 46 |
| 1207 | 12326132 | | B-29 | 1 | 19207 | 7527645 | 5975-00-697-7769 | B-20 | 39 |
| 19207 | 12326174 | | B-15 | 6 | 19207 | 7716520 | 5999-00-485-8954 | B-20 | 10 |
| 97403 | 13211E3011 | 2590-01-136-5252 | B-27 | 6 | 19207 | 7716520 | 5999-00-485-8954 | B-20 | 31 |
| 97403 | 13211E3231 | 5420-01-121-1232 | B-27 | 7 | 19207 | 7716520 | 5999-00-485-8954 | B-20 | 38 |
| 19207 | 1684297 | | B-26 | 8 | 19207 | 7716520 | 5999-00-485-8954 | B-20 | 48 |
| 80244 | 1711725-96 | 5970-00-284-8640 | BULK | | 19204 | 7716520 | 5999-00-485-8954 | B-21 | 10 |
| 80244 | 1711725-96 | | B-4 | 30 | 19207 | 7716520 | 5999-00-485-8954 | B-22 | 16 |
| 21450 | 192417 | 5305-00-019-2417 | B-3 | 12 | 19207 | 7716521 | 5999-00-485-8955 | B-20 | 17 |
| 21450 | 192417 | 5305-00-019-2417 | B-10 | 17 | 19207 | 7716521 | 5999-00-485-8955 | B-20 | 23 |
| 21450 | 192417 | 5305-00-019-2417 | B-11 | 19 | 19207 | 7716521 | 5999-00-485-8955 | B-21 | 24 |
| 12603 | 23E06 | 5310-00-637-9541 | B-16 | 29 | 19207 | 7716522 | 5999-00-368-4852 | B-21 | 25 |
| 80045 | 23MS35338-50 | 5310-00-820-6653 | B-23 | 17 | 19207 | 7716523 | 5999-00-771-6523 | B-19 | 30 |
| 80045 | 23MS35338-50 | 5310-00-820-6653 | B-23 | 32 | 19207 | 7716523 | 5999-00-771-6523 | B-21 | 9 |
| 24617 | 425592 | 5305-00-042-5592 | B-16 | 27 | 19207 | 7716523 | 5999-00-771-6523 | B-22 | 15 |
| 24617 | 425592 | 5305-00-042-5592 | B-17 | 17 | 19207 | 7716634 | 5975-00-771-6634 | B-20 | 24 |
| 02978 | 550559 | 5305-00-206-3851 | B-2 | 6 | 19207 | 7716658 | 5999-00-113-2954 | B-20 | 32 |
| 02978 | 550559 | 5305-00-206-3851 | B-2 | 12 | 19207 | 7716669 | 5935-00-089-7917 | B-19 | 31 |
| 19207 | 5702404 | 6105-00-084-7618 | B-8 | | 19207 | 7716675 | 5935-01-026-5900 | B-20 | 33 |
| 19207 | 5703549 | 2940-00-900-8554 | B-8 | | 19207 | 7716683 | 5935-00-257-1024 | B-20 | 22 |
| 19207 | 5705074 | 2815-01-149-1313 | B-1 | 1 | 19207 | 7720484 | 5935-00-772-0484 | B-20 | 15 |
| 19207 | 5705125 | 6105-01-147-5170 | B-8 | | 19207 | 7720853 | 6145-00-162-6499 | B-21 | 34 |
| 19207 | 5705149 | 4310-01-134-6587 | B-4 | | 19207 | 7722204 | 6145-00-772-2804 | B-21 | 28 |
| 77820 | 60-37005-321 | 5935-00-729-8217 | B-21 | 5 | 19207 | 7722322 | 5365-00-772-2322 | B-20 | 7 |
| 77820 | 60-37005-321 | 5935-00-729-8217 | B-21 | 20 | 19207 | 7722323 | 5365-00-772-2323 | B-20 | 29 |
| 77820 | 60-42722-7S | 5935-00-686-9374 | B-19 | 28 | 19207 | 7722333 | 5365-00-090-5426 | B-20 | 25 |
| 02978 | 699772 | 2815-01-146-1877 | B-10 | 4 | 19207 | 7722343 | 5365-00-772-2343 | B-20 | 45 |
| 02978 | 699883 | 2815-01-146-1878 | B-10 | 28 | 19207 | 7722344 | 5935-00-772-2344 | B-20 | 14 |
| 19207 | 7033684-1 | 5330-01-082-3761 | B-9 | 15 | 19207 | 7722972 | 5365-00-772-2972 | B-4 | 38 |
| 19207 | 7056634 | 5970-00-705-6634 | B-21 | 32 | 19207 | 7723306 | 5935-00-333-3088 | B-20 | 44 |
| 19207 | 7056641 | 5975-00-644-3682 | B-4 | 35 | 19207 | 7723307 | 5935-00-772-3307 | B-20 | 13 |

PART NUMBER CROSS-REFERENCE TO FIGURE NUMBER AND ITEM NUMBER - CONTINUED

| FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. | FSCM | PART NUMBER | NATIONAL STOCK NUMBER | FIGURE NO. | ITEM NO. |
|-------|-------------|-----------------------|------------|----------|-------|-------------|-----------------------|------------|----------|
| 19207 | 7723308 | 5935-00-333-9414 | B-19 | 25 | 19207 | 8717158 | 5330-00-599-0942 | B-2 | 11 |
| 19207 | 7723308 | 5935-00-333-9414 | B-20 | 6 | 19207 | 8720680 | 5935-00-614-9136 | B-20 | 49 |
| 19207 | 7723309 | 5310-00-393-6685 | B-20 | 26 | 19207 | 8724199 | 5935-00-686-2610 | B-20 | 47 |
| 19207 | 7723474 | | B-20 | 18 | 19207 | 8724231 | 5935-00-686-2605 | B-20 | 35 |
| 19207 | 7723475 | 5935-00-771-8192 | B-20 | 11 | 19207 | 8724243 | 5935-00-686-2606 | B-20 | 16 |
| 19207 | 7728778 | 5940-00-314-0479 | B-21 | 30 | 19207 | 8724244 | 5935-00-686-2608 | B-20 | 9 |
| 19207 | 7759648-2 | | B-8 | 20 | 19207 | 8724246 | 5935-00-811-0942 | B-20 | 30 |
| 19207 | 7767318 | 5310-00-776-7318 | B-12 | 6 | 19207 | 8724257 | 5935-00-754-9083 | B-20 | 20 |
| 19207 | 7767318 | 5310-00-776-7318 | B-12 | 13 | 19207 | 8724404 | 5935-00-685-9979 | B-22 | 14 |
| 19207 | 7767318 | 5310-00-776-7318 | B-16 | 14 | 19207 | 8724763 | 9390-00-180-7289 | B-19 | 20 |
| 19207 | 7767318 | 5310-00-776-7318 | B-16 | 14 | 19207 | 8724763 | 9390-00-180-7289 | B-20 | 42 |
| 19207 | 7767318 | 5310-00-776-7318 | B-17 | 32 | 19207 | 8724763 | 9390-00-180-7289 | B-21 | 6 |
| 19207 | 7970528 | | B-23 | 16 | 19207 | 8724763 | 9390-00-180-7289 | B-21 | 21 |
| 19207 | 7970529 | | B-23 | 14 | 19207 | 8724763 | 9390-00-180-7289 | B-21 | 21 |
| 19207 | 7971717 | 5935-00-754-9078 | B-21 | 8 | 19207 | 8724763 | 9390-00-180-7289 | B-22 | 4 |
| 19207 | 7982997 | 1015-00-798-2997 | B-20 | 2 | 19207 | 8724768 | 9510-01-104-8931 | B-19 | 19 |
| 19207 | 8089700 | 5935-00-987-2942 | B-22 | 5 | 19207 | 8724769 | 9390-00-464-4756 | B-22 | 3 |
| 19207 | 8338503 | 5340-01-077-1501 | B-17 | 14 | 19207 | 8728292 | 2920-00-770-1642 | B-8 | 15 |
| 19207 | 8338561 | 5935-00-833-8561 | B-4 | 17 | 19207 | 8728293 | 5340-00-900-2347 | B-8 | 12 |
| 19207 | 8338561 | 5935-00-833-8561 | B-4 | 32 | 19207 | 8728294 | | B-8 | 24 |
| 19207 | 8338562 | 5970-00-833-8562 | B-4 | 16 | 19207 | 8728295 | | B-8 | 23 |
| 19207 | 8338562 | 5970-00-833-8562 | B-4 | 33 | 19207 | 8734585 | 5305-01-102-5513 | B-23 | 18 |
| 19207 | 8338562 | 5970-00-833-8562 | B-20 | 3 | 19207 | 8761109 | 2990-00-897-2849 | B-2 | 2 |
| 19207 | 8338564 | 2520-00-692-4879 | B-4 | 15 | 19207 | 8761109 | 2990-00-897-2849 | B-2 | 9 |
| 19207 | 8338564 | 5940-00-399-6676 | B-4 | 34 | 19207 | 8762503 | 2510-00-105-2755 | B-25 | 9 |
| 19207 | 8338564 | 5940-00-399-6676 | B-20 | 2 | 19207 | 8762504 | 2510-00-105-2756 | B-25 | 9 |
| 19207 | 8338566 | 5935-00-572-9180 | B-4 | 28 | 19207 | 8762775 | 5330-00-678-4699 | B-5 | 29 |
| 19207 | 8338566 | 5935-00-572-9180 | B-4 | 46 | 19207 | 8762775 | 5330-00-678-4699 | B-7 | 29 |
| 19207 | 8338567 | 5310-00-833-8567 | B-4 | 27 | 19207 | 8762777 | 2940-00-933-9946 | B-5 | 37 |
| 19207 | 8338567 | 5310-00-833-8567 | B-4 | 45 | 19207 | 8762777 | 2940-00-933-9946 | B-7 | 38 |
| 19207 | 8344324 | 5970-00-615-8884 | B-20 | 37 | 19207 | 8762780 | 5330-00-678-3488 | B-5 | 1 |
| 19207 | 8344522 | 5935-01-013-7520 | B-20 | 50 | 19207 | 8762780 | 5330-00-678-3488 | B-7 | 1 |
| 19207 | 8344527 | 5935-00-462-2913 | B-20 | 36 | 19207 | 8762781 | 5330-00-678-1851 | B-5 | 43 |
| 19207 | 8344537 | | B-20 | 21 | 19207 | 8762781 | 5330-00-678-1851 | B-7 | 43 |
| 19207 | 8357967-4 | | B-2 | 26 | 19207 | 8762783 | 4720-00-678-4700 | B-5 | 32 |
| 19207 | 8376776 | 5365-00-318-8184 | B-19 | 26 | 19207 | 8762783 | 4720-00-678-4700 | B-7 | 32 |
| 19207 | 8395482 | 5975-00-752-2746 | B-19 | 16 | 19207 | 8762784 | 2940-00-932-3565 | B-5 | 40 |
| 19207 | 8395483 | 5365-00-678-4258 | B-19 | 17 | 19207 | 8762784 | 2940-00-932-3565 | B-7 | 41 |
| 29201 | 84001-1 | 5310-00-081-4219 | B-3 | 40 | 19207 | 8762785 | 2940-00-168-2243 | B-5 | 44 |
| 19207 | 8666738 | 5330-00-318-4127 | B-12 | 3 | 19207 | 8762863 | 5307-00-678-4760 | B-4 | 20 |
| 19200 | 8671869 | 5315-00-699-7760 | B-23 | 11 | 19207 | 8762863-1 | 5307-00-178-8859 | B-4 | 58 |
| 19207 | 8682523 | 5330-00-679-4961 | B-2 | 30 | 19207 | 8762863-1 | 5307-00-178-8859 | B-6 | 25 |
| 19207 | 8701249 | 5310-00-678-4228 | B-22 | 13 | 19207 | 8762871 | 4730-00-678-4750 | B-4 | 39 |
| 19207 | 8701309 | | B-19 | 29 | | | | | |
| 19207 | 8701309 | | B-20 | 12 | | | | | |
| 19207 | 8701309 | | B-20 | 19 | | | | | |
| 19207 | 8701309 | | B-20 | 34 | | | | | |
| 19207 | 8701310 | | B-22 | 18 | | | | | |
| 19207 | 8701325 | 5310-00-655-9860 | B-19 | 27 | | | | | |
| 19207 | 8701325 | 5310-00-655-9860 | B-20 | 8 | | | | | |
| 19207 | 8701344 | 5935-01-104-6333 | B-21 | 11 | | | | | |
| 19207 | 8701344 | | B-22 | 17 | | | | | |
| 19207 | 8701345 | | B-21 | 26 | | | | | |
| 19207 | 8701346 | | B-21 | 12 | | | | | |
| 19207 | 8701346 | | B-21 | 27 | | | | | |
| 19207 | 8711310 | 5340-00-678-6178 | B-5 | 6 | | | | | |
| 19207 | 8711310 | 5340-00-678-6178 | B-7 | 6 | | | | | |
| 19207 | 8717157 | | B-2 | 3 | | | | | |
| 19207 | 8717157 | | B-2 | 10 | | | | | |
| 19207 | 8717158 | 5330-00-599-0942 | B-2 | 4 | | | | | |

**APPENDIX C
EXPENDABLE SUPPLIES AND MATERIAL LIST**

Section I. INTRODUCTION

C-1. Scope.

This appendix lists expendable supplies and materials you will need to operate and maintain the improved clean air induction system. These items are authorized to you by CTA 50-970, Expendable Items (Except Medical, Class V, Repair Parts, and Heraldic Items).

C-2. Explanation of Columns.

a. Column 1 - Item Number. This number is assigned to the entry in the listing and is referenced in the narrative instructions to identify the material (e.g., Use sealer compound, item 4, appendix C).

b. Column 2- Level. This column identifies the lowest level of maintenance that requires the listed item.

- C - Operator/Crew
- O - Organizational Maintenance
- F - Direct Support Maintenance
- H - General Support Maintenance

c. Column 3 - National Stock Number. This is the National stock number assigned to the item; use it to request or requisition the item.

d. Column 4- Description. Indicates the Federal item name and, if required, a description to identify the item. The last line for each item indicates the part number followed by the Federal Supply Code for Manufacturer (FSCM) in parentheses if applicable.

e. Column 5- Unit of Measure (U/M). Indicates the measure used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea., in., pr.). If the unit of measure differs from the unit of issue, requisition the lowest unit of issue that will satisfy your requirements.

Section II. EXPENDABLE SUPPLIES AND MATERIALS LIST

| ITEM | LEVEL | NATIONAL STOCK NUMBER | DESCRIPTION | U/M |
|------|-------|-----------------------|---|-----|
| 1 | O | 8040-00-664-4318 | Adhesive, Rubber (MMM-A-1617, Type II) | PT |
| 2 | O | 8040-00-902-3871 | Adhesive, Sealer (MIL-A-46106A) | OZ |
| 3 | O | | Compound Locking (MIL-A-46163, Type I Grade L) | |
| 4 | O | 8030-00-275-8110 | Compound, Sealer (MIL-S-11031/ MMM-A-1617, Type II) | OZ |
| 5 | C | 6850-00-880-7616 | Compound, Silicone (MIL-S-8660) | OZ |
| 6 | O | 7390-00-990-7391 | Detergent, Liquid | DR |
| 7 | O | 9920-00-292-9946 | Pipe Cleaners | PG |
| 8 | O | | Primer, Grade F | |

By Order of the Secretary of the Army:

Official:

JOHN A. WICKHAM, JR.
General, United States Army
Chief of Staff

MILDRED E. HEDBERG
Brigadier General, United States Army
The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-37, Operator's and Organizational Maintenance and Direct support and General Support Maintenance requirements for Tank, Combat, Full Track, 105-MM, M60A1 Hull and M60A1 AOS; Vehicle, Combat Engineer, Full Tracked, M728; Tank, Combat, Full Tracked, 105-MM, M60A1 RISE and M60A1 RISE PASSIVE; Tank, Combat, Full Tracked, 105-MM, M48A5 and Tank, Combat, Full Tracked, 105-MM, M60A3 and TTS.

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RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS



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TB 9-2300-378-14

PUBLICATION DATE

Sept 85

PUBLICATION TITLE

Air Induction System Maintenance

BE EXACT PIN-POINT WHERE IT IS

| PAGE NO | PARA-GRAPH | FIGURE NO | TABLE NO |
|---------|------------|-----------|----------|
| 3 | | 2 | |
| 09 | | 51 | |
| 2-8 | | | 2-1 |
| 12 | 1-6a | | |

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Item 10. Change illustration. Reason: Tube end shown assembled on wrong side of lever cam.

Item 3. The NSN and P/N are not listed on the AMDF nor the MCRL. Request correct NSN and P/N be furnished.

Preventive Maintenance Checks and Services. Item 7 under "Items to be inspected" should be changed to read as follows: Firing linkage and firing mechanism pawl.

Since there are both 20- and 30- round magazines for this rifle, data on both should be listed.

SAMPLE

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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 = 1,000,000 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

$\frac{5}{9}(^{\circ}\text{F} - 32) = ^{\circ}\text{C}$
 212° Fahrenheit is equivalent to 100° Celsius
 90° Fahrenheit is equivalent to 32.2° Celsius
 32° Fahrenheit is equivalent to 0° Celsius
 $\frac{5}{9}^{\circ}\text{C} + 32 = ^{\circ}\text{F}$

APPROXIMATE CONVERSION FACTORS

| 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 |

