# COMBAT VEHICLE PRE-COMBAT CHECKLIST FOR:

HOWITZER, MEDIUM, SELF-PROPELLED 155MM, M109A2 (2350-01-031-0586) 155MM, M109A3 (2350-01-031-8851) 155MM, M109A4 (2350-01-277-5770) 155MM, M109A5 (2350-01-281-1719)

#### WARNING

THIS CHECKLIST IS TO BE USED ONLY WHEN AUTHORIZED BY THE COMMANDER. IT IS NOT INTENDED TO BE USED IN PLACE OF THE PMCS.

#### NOTE

THIS CHECKLIST CONTAINS CHECKS TO BE PERFORMED BEFORE COMBAT TO ASSURE VEHICLE IS MISSION CAPABLE. THE CHECKLIST SEQUENCE NUMBERS HEREIN CORRESPOND TO THOSE CHECKS IN THE OPERATOR'S TM. REPORT CHECK RESULTS TO YOUR IMMEDIATE LEADER.

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By Order of the secretary of the Army CARL E. VUONO General. United States Army Chief of Staff

#### Officiel:

THOMAS F. SIKORA Brigadier General. United States Army The Adjutant General

#### Distribution:

To be distributed in accordance with DA Form 12-37E, (Block 2116), Operator's Maintenance Requirements for TM 9-2350-311-PCL.

DEPARTMENT OF THE ARMY

15 October 1990

## TM 9-2350-311-PCL

- VEHICLE EXTERIOR: Walk-Around and Check For Fluid Leaks, Damage, Tampering, and Missing Parts That Prevent Operation.
- 5. **RADIATOR COOLANT:** Check Fluid Level.
- 3. **EXTERNAL FIRE EXTINGUISHER HANDLE:** Check Lacing and Seal.
- 6. **DRIVER'S COMPARTMENT FIRE EXTINGUISHER PULL HANDLE:** Check Lacing and Seal.
- 8. **ENGINE/INSTRUMENTS:** Start Engine. Check Warning Lights/Gauges.
- 68. **NBC SYSTEM CHECK:** (If So Equipped).
- 13. **POWER PACK RESERVOIR:** Check Fluid Level.
- 17. CHECK ELEVATING MECHANISM.
- 18. **CHECK TRAVERSING MECHANISM.**
- 16. **REPLENISHER SYSTEM:** Replenisher Gage Between 17 and 24 PSI.
- 24. CHECK RAMMER SYSTEM.
- 25. **CHECK RECUPERATOR PINS:** Pins Protrude Between 1/8 and 3/4 Inch.
- 22. **CHECK BREECH OPENING CAM AND ROLLERS:** Rollers Are Not Broken. Lube Prior To Firing.
- 23. CHECK FIRING MECHANISM.
- 20. **BREECHBLOCK:** Function Check. Witness Marks Aligned.
- 26-32. **FIRE CONTROL**: Mount and Check Components. **MACHINE GUN FUNCTION CHECK.**

## RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

	SOMETHING WRONG WITH PUBLICATION  FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)  THENJOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.  DATE SENT											
	PUBLICATION NUMBER				PUBLICATION D	ATE	PUBLICATION TITLE					
	BE EXAC PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.	IN THI AND V	S SPACE, TE	LL WHA	AT IS WRONG DONE ABOUT IT.				
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PREVIOUS EDITIONS ARE OBSOLETE. P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

## THE METRIC SYSTEM AND EQUIVALENTS

#### **'NEAR MEASURE**

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

## **YEIGHTS**

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**

 $5/9(^{\circ}F - 32) = ^{\circ}C$ 

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {\circ}F$ 

## APPROXIMATE CONVERSION FACTORS

TO CHANGE	TO	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	
Yards	Meters	
Miles	Kilometers	
Square Inches	Square Centimeters	
Square Feet	Square Meters	
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	
Cubic Feet	Cubic Meters	
Cubic Yards	Cubic Meters	
Fluid Ounces	Milliliters	
nts	Liters	
arts	Liters	
allons	Liters	
Ounces	Grams	
Pounds	Kilograms	
Short Tons	Metric Tons	
Pound-Feet	Newton-Meters	
Pounds per Square Inch	Kilopascals	
Miles per Gallon	Kilometers per Liter	
Miles per Hour	Kilometers per Hour	

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	
Cubic Meters	Cubic Feet	
Cubic Meters	Cubic Yards	
Milliliters	Fluid Ounces	
Liters	Pints	2.113
Liters	Quarts	1.057
`ers	Gallons	0.264
.ms	Ounces	0.035
.ograms	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-Feet	0.738
Kilopascals	Pounds per Square Inch	0.145
ometers per Liter	Miles per Gallon	2.354
meters per Hour	Miles per Hour	0.621



PIN: 045092-000