

CREW DAILY PMCS
for
OPERATOR'S MANUAL

CARRIER, PERSONNEL FULL
TRACKED, ARMORED M113A2
2350-01486-4077

CARRIER, COMMAND POST,
LIGHT, TRACKED M577A2
2350-01-0684089

CARRIER, MORTAR, 107-MM,
SELF PROPELLED M106A2
2350-01-069-6931

CARRIER, MORTAR, 81-MM,
SELF PROPELLED M125A2
2350-01-068-4087

CARRIER, SMOKE GENERATOR,
FULL TRACKED MI 059
2350-01-203-0188

GENERAL

WARNING

To prevent possible injury to personnel or damage to equipment, before using condensed PMCS you must be experienced in using PMCS from manuals listed below.

This is a crew condensed daily PMCS checklist You must be experienced in using PMCS listed in TM 9-2350-261-10, TM 9-1005-213-10 (M2 Machine Gun), TM 11-5820-401-10-2 (Communications Subsystem), TM 1-1015-200-10 (81-MM Mortar) or TM 9-1015-215-10 (4.2 inch (107-MM Mortar)) and TM 3-1040-279-12&P (Smoke Generator System). An asterisk indicates a Non Mission Capable (NMC) fault The check sequence numbers herein correspond to those checks listed TM 9-2350-261-10. If you have any questions refer to appropriate TM or to your immediate leader.

NOTE

- While performing PMCS:
 - Check all bolts, nuts, and screws for looseness, breaks, or missing.
 - Check for broken welds
 - Check electrical connections for cracked or broken wire, or loose connectors
 - Check hoses and fluid lines for wear, damage, and leaks.
- For any special operation refer to TM 9-2350-261-10.
- When working in/around the carrier, follow all safety procedures.
- Checkmark each item where any fault is noted. Record all faults on DA Form 2404.
- Provide equipment readiness status to your immediate leader.

Refer to TM 9-2350-261-10 for Weekly and Monthly PMCS.

BEFORE OPERATION CHECKS CARRIER COMMANDER

1. Check exterior above shroud for damaged or missing items. Ensure all items are properly secured.
- *2. Check fixed fire extinguisher handle and seal.
- *3. Check smoke grenade launcher (M113A2, M1059).
- *4. Check for leaks, loose hull access and drain plugs.

CAUTION

Check all flexible air intake ducts. Do not operate carrier if damage exists.

- *5. Check inside front power plant compartment for leaks and damage.
 - a. Air intake duct (holes or tears)
 - b. Fuel lines (leaks)
 - c. Coolant hoses (leaks)
 - d. Oil lines (leaks)

CAUTION

Close filler cap after checking level.

- *6. Check oil levels
 - a. Differential
 - b. Final drive
- *7. Check universal joints
- *8. Cold weather operations
 - a. Check coolant heater for leaks
 - b. Check air box heater accumulator.

WARNING

Make sure the power plant compartment front access door and trim vane are closed and secure before continuing your PMCS.

- 9. Check for damaged and missing items on deck Ensure all items are secure.
- 10. Check smoke generators (M1059).
 - a. Leaks and serviceability of straps
 - b. Bracket security
 - c. Armor plating
- 11. Check portable fire extinguisher (M1059).

WARNING

Make sure machine gun is clear and locked, and barrel is free of obstructions

- 12. Check commanders cupola machine gun and mount.
 - a. Machine gun and mount (do functional check if MG is mounted)
 - b. Cupola

BEFORE OPERATION CHECKS DRIVER

- *13. Check for damage to
 - a Track or track tension
 - b. Roadwheels
 - c Torsion bars
 - d Roadwheel arms
 - e. Sprockets
 - f. Track shrouds
- *14. Check exterior for leaks:
 - a Roadwheel hubs
 - b. Idler wheel hubs

WARNING

Check coolant level when engine is cold. Never try to check coolant level after carrier has been running, and engine is still hot.

- *15. Check coolant level.
- *16. Check M113A2, M577A2 Carrier, fuel tanks, valves, and lines, for fuel leaks

WARNING

Do not operate carrier if portable or fixed fire extinguishers are missing, discharged, or seal not intact

- *17. Check fire extinguishers and seals
 - a. Interior fixed
 - b. Portable
- *18. Check rear power plant compartment for leaks:
 - a. Fuel lines
 - b. Coolant hoses
 - c. Oil lines
 - d. Air intake ducts

CAUTION

Carrier must be on level surface for proper oil/fluid reading,

- *19. Check oil/fluid levels
 - a. Transmission
 - b. Engine
 - c. Transfer gear case
 - d. Fan tower
 - e. Ramp

WARNING

Carbon monoxide gas is a deadly poison. Make sure rear engine and operator's power plant access panels are installed and secured before continuing PMCS.

- *20. Check instrument panel warning lights condition.
- 21. Cold weather operations Check air box heater.

BEFORE OPERATION CHECKS GUNNER M1D0A2 AND M125A2

CAUTION

Make sure mortar tube is clean and dry before firing.

- *22. Conduct daily PMCS for 4.2 inch (107-MM) mortar, using TM 9-1015-215-10 or, for 81-MM mortar, using TM 9-1015-200-10.
- *23. Check carrier fuel tank valves and lines for leaks

DURING OPERATION CHECKS CARRIER COMMANDER

- *24. Check carrier communication equipment:
 - a. Check radio equipment to ensure it is working and mounted properly.
 - b. Check intercom system

NOTE

For proper operation procedures and checks refer to TM 3-1040-279-12&P,

- *25. Smoke generator system (M1059).

WARNING

Do not operate personnel heater if any fuel leak is found in heater or in heater fuel lines.

- *26. Check personnel heater and personnel heater fuel lines.

WARNING

Do not look directly into infrared lights.

NOTE

Assist driver on PMCS for vehicle lights and (M577A2) Electronic Equipment Heater electrical circuits.

DURING OPERATION CHECKS DRIVER

CAUTION

If temperature goes above 200 degrees F (93.3 degrees C), turn off engine and notify organizational maintenance.

- *27. Check instruments and warning lights

- *28. Check air cleaner restriction indicator.

29. Check lights

- a. Headlights
- b. Instrument panel
- c. Turn signal
- d. Blackout drive
- e. Infrared lights
- f. Stoplight (M113A2, M577A2)

- *30. Check heaters (only if needed in operation).
- Personnel heater electrical circuits
 - Coolant heater
 - Coolant heater electrical circuits
 - Electronic equipment heater (M577A2)

WARNING

- Engine must be stopped to do steering/braking PMCS
- Do not press steering lock buttons when vehicle is moving.
- Steering levers must engage in 2nd or 3rd notch of quadrant.

CAUTION

Stop carrier before shifting into reverse.

- *31. Check steering, braking, shifting, and throttle controls

DURING OPERATION CHECKS GUNNER (M106A2, M125A2)

- *32. Conduct daily PMCS for 4.2 inch (107-MM) mortar using TM 9-1015-215-10 or, for 81-MM mortar, using TM 9-1015-200-10.

NOTE

Assist carrier commander and driver in performing PMCS on vehicle.

AFTER OPERATION CHECKS CARRIER COMMANDER

33. Check fuel tank filler cap.
34. Service smoke grenade launcher (M113A2, M1059).

NOTE

Assist driver on suspension PMCS

AFTER OPERATION CHECKS DRIVER

WARNING

Make sure carrier is on level surface and brakes are set and locked.

- *35. Check transmission oil level (with engine running)
- *36. Check engine shut down.

WARNING

Hubs, final drive housing, and shock absorbers can heat up enough to burn you.

- *37. Check for overheating and/or damage to:
 - a. Road wheels and idler wheels
 - b. Final drive bearing
 - c. Sprockets
 - d. Shock absorbers
 - e. Track shoes and pins
 - f. Road wheel arms and torsion bars
- *38. Check wheel hubs for damage, leaks, and missing grease fittings or valves.
- 39. Drain contamination in fuel filters.

AFTER OPERATION CHECKS GUNNER

- *40. Conduct daily PMCS for 4.2 inch (M107-MM) mortar, using TM 9-1015-215-10, or for 81 MM mortar, using TM 9-1015-200-10.

NOTE

Assist carrier commander and driver (Weekly and Monthly PMCS).

Refer to TM 9-2350-261-10 for Weekly and Monthly PMCS.

By Order of the Secretary of the Army

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

Official:

R. L. DILWORTH
Brigadier General United States Army
The Adjutant General

Distribution

To be distributed in accordance with DA Form 12-37. Operator's Maintenance Requirements for Carrier. Personnel. Full Tracked. Armored M113A2, Carrier, Command Post, Light, Tracked M577A2, Carrier, Mortar, 107-MM, Self-Propelled M106A2, Carrier, Mortar, 81-MM, Self-Propelled M125A2, and Carrier, Smoke Generator, Full Tracked M1059 Crew PMCS.

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RECOMMENDATION MAKE A CARBON COPY OF THIS
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THE METRIC SYSTEM AND EQUIVALENTS

LENGTH 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

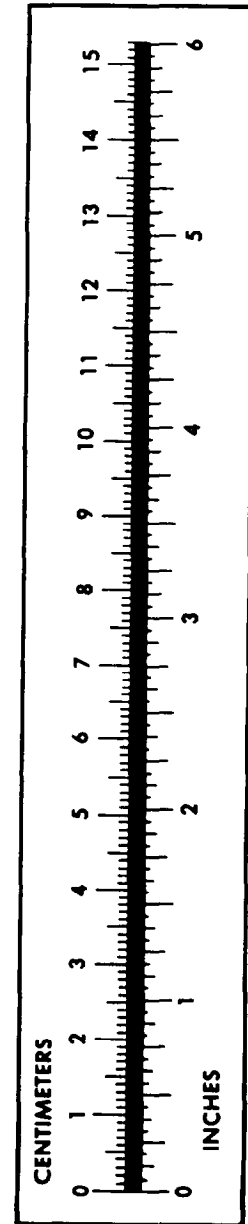
TEMPERATURE

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

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
Quarts	Liters	0.473
Gallons	Liters	0.946
Ounces	Liters	3.785
Pounds	Grams	28.349
Short Tons	Kilograms	0.454
Pound-Feet	Metric Tons	0.907
Pounds per Square Inch	Newton-Meters	1.356
Miles per Gallon	Kilopascals	6.895
Miles per Hour	Kilometers per Liter	0.425
	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
Grams	Pounds	2.205
Metric Tons	Short Tons	1.102
Newton-Meters	Pounds-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



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