

TECHNICAL MANUAL

UNIT MAINTENANCE MANUAL

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

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

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

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

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

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

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

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

SUPERSEDURE NOTICE — This manual supersedes TM 9-2350-277-20 dated 24 July 1994, including all changes.

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HEADQUARTERS, DEPARTMENT OF THE ARMY

2 January 2001

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DEPARTMENT OF THE ARMY
WASHINGTON, D.C., 02 January 2001

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CHAPTER 3
UNIT MAINTENANCE INSTRUCTIONS
FOR CARRIER

WORK PACKAGE INDEX

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PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING LUBRICATION INSTRUCTIONS.....	0155 00

SERVICE UPON RECEIPT

0154 00**THIS WORK PACKAGE COVERS:**

This section contains information on how to check the M58, M113A3, M577A3, M901A3, M981A3, M1059A3, M1064A3, and M1068A3 carriers when received.

INITIAL SETUP:Maintenance LevelUnit

PRELIMINARY CHECKS AND ADJUSTMENTS**CHECKING UNPACKED EQUIPMENT**

1. Do the following steps to check carriers and parts upon receipt:
 - a. Inspect the equipment for possible damage incurred during shipment. If the equipment has been damaged, report the damage on DD Form 6, Packaging Improvement Report.
 - b. Check equipment against the packing slip and the BII in TM 9-2350-277-10 (All Carriers), TM 9-2350-259-10 (M901A3), and TM 9-2350-266-10 (M981A3) to see if shipment is complete. Report all differences using the procedure given in DA Pamphlet 738-750.
 - c. Check to see whether the equipment has been modified. See DA Form 2408-9, Transfer, Gain, and Loss Report.

END OF TASK

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING LUBRICATION INSTRUCTIONS

0155 00

THIS WORK PACKAGE COVERS:

Semi-Annual (Table 18, page 0155 00-33).
Annual (Table 19, page 0155 00-174).

INITIAL SETUP:

<u>Maintenance Level</u>	<u>References</u>
<u>Unit</u>	FM 9-207
<u>Tools and Special Tools</u>	TM 9-214
Adapter (WP 0926 00, Item 4)	TB 43-0211
Socket Set (WP 0926 00, Item 71)	TM 43-0319
Socket Set (WP 0926 00, Item 72)	TM-3-6680-316-10
Torque Wrench (WP 0926 00, Item 79)	TM 9-2350-277-10
Torque Wrench (WP 0926 00, Item 80)	TM 3-6665-224-12
Torque Wrench (WP 0926 00, Item 81)	TM 9-6100-200-14
Torque Wrench (WP 0926 00, Item 82)	TM 9-2350-277-24P
Torque Wrench (WP 0926 00, Item 85)	TM 9-2450-205-24&P
<u>Materials/Parts</u>	TM 3-4240-276-30
Automotive grease (WP 0928 00, Item 12)	TM 3-4240-276-30P
Cleaning compound (WP 0928 00, Item 19)	TM 10-5410-229-13&P
General purpose detergent (WP 0928 00, Item 35)	
Sealing tape (WP 0928 00, Item 39)	
<u>Personnel Required</u>	<u>Equipment Condition</u>
Unit Mechanic	Engine stopped (see your -10)

SCOPE

This section details preventive maintenance checks and services (PMCS) and lubrication procedures required for the M113A3 FOV Carriers at the unit maintenance level. For crew level PMCS, see your -10.

MAINTENANCE FORMS AND RECORDS

The forms and records you fill out have many uses. They are a permanent record of the service, repairs, and changes made to your vehicle. They also tell you whether faults have been repaired. For information on forms and records, see DA Pamphlet 738-750.

WARNINGS AND CAUTIONS

Always observe the WARNINGS and CAUTIONS appearing in the PMCS tables BEFORE, DURING, and AFTER you operate the equipment. The WARNINGS and CAUTIONS appear before certain procedures. You must observe these WARNINGS and CAUTIONS to prevent serious injury to yourself and others or prevent your equipment from being damaged.

PMCS PROCEDURES

- (1) Obey all WARNINGS and CAUTIONS when you do PMCS.
- (2) Name, caution, and instruction plates should be easy to read. If they are dirty or corroded, clean them, and coat them with lacquer. See TM 43-0319 for instructions.
- (3) If something doesn't work, troubleshoot it using the troubleshooting procedures (WP 0005 00).
- (4) Do the semiannual PMCS every 1500 miles (2400 km) of operation or no later than 6 months after the last semiannual PMCS.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING
LUBRICATION INSTRUCTIONS — Continued**

0155 00

- (5) Always do your PMCS in the same order so it gets to be a habit. With practice, you'll spot anything that is wrong.
- (6) Keep your vehicle clean. Dirt, grease, oil, and debris only get in the way, and may cover up a serious problem. Clean your vehicle as you work and as needed.
- (7) Use cleaning compound (WP 0928 00, Item 19) on metal surfaces. Use general purpose detergent (WP 0928 00, Item 35) and water when you clean rubber or plastic parts.
- (8) You need to know how fluid leaks affect your vehicle. Definitions of the types and classes of leaks are given in General Maintenance Instructions below. You need to know them to determine the condition of your vehicle. Learn them. REMEMBER: WHEN IN DOUBT, NOTIFY YOUR SUPERVISOR!

GENERAL MAINTENANCE INSTRUCTIONS**SCOPE**

This section contains safety warnings, guidelines, and general maintenance instructions. They should be followed when doing maintenance procedures authorized for unit maintenance level.

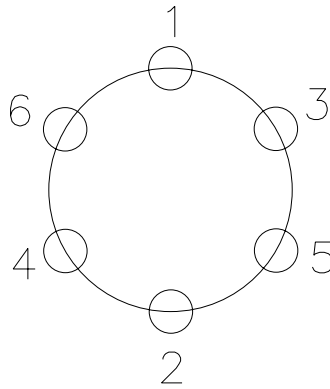
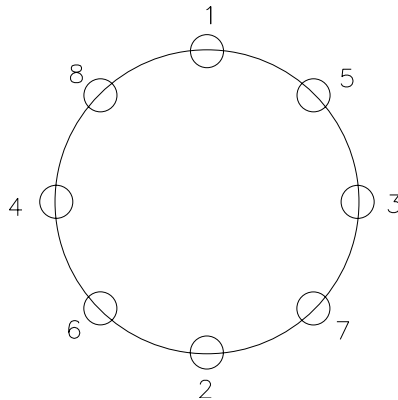
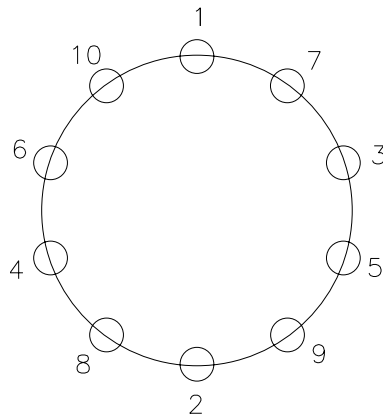
1. PREPARATION FOR MAINTENANCE

- a. *PERSONNEL SAFETY.* Practice all shop safety procedures and read all warnings in this manual.
- b. *PROPER EQUIPMENT.* Get tools and equipment before starting a maintenance task. See RPSTL (TM 9-2350-277-24P), and the maintenance task for tools, equipment, parts, and materials.
- c. *WHAT TO DISCARD.* Parts to discard, such as lockwashers, locknuts, and gaskets, are listed in the maintenance tasks. If the step does not say to discard a part, the part should be saved. It may be used later or may be repaired.
- d. *HANDLING TECHNIQUES.*
 - 1) Avoid damage to parts during removal, cleaning, inspection, repair, and installation procedures. Nicks, scratches, and dents caused by careless handling could result in equipment failure.
 - 2) Dirt can damage parts and cause malfunctions. Make sure all air and fluid openings, lines, and hoses are capped or plugged during maintenance procedures.
- e. *IDENTIFICATION.*
 - 1) During removal, tag parts to ensure proper installation.
 - 2) During removal, tag leads on electrical parts to ensure proper installation. Tag each lead as it is removed.

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING
LUBRICATION INSTRUCTIONS — Continued**

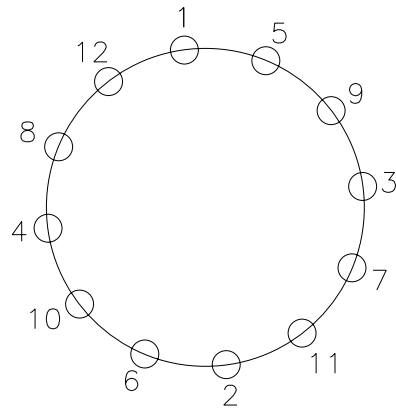
0155 00

- f. *TORQUING.* Where needed, torque values are listed in the maintenance task. When torquing, use one of the star pattern sequences below unless otherwise stated in the maintenance task.

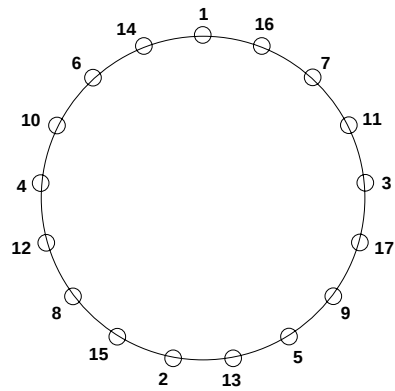
**6-HOLE PATTERN****8-HOLE PATTERN****10-HOLE PATTERN**

PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING
LUBRICATION INSTRUCTIONS — Continued

0155 00



12-HOLE PATTERN

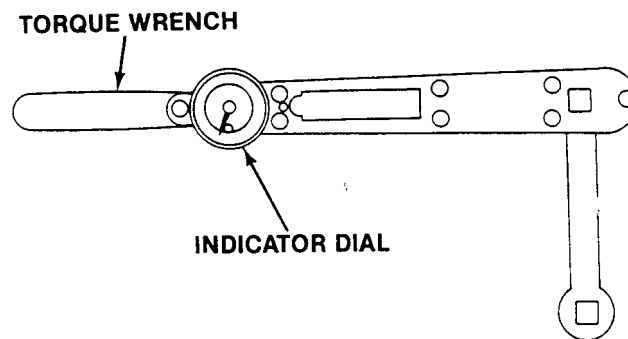


17-HOLE PATTERN

**PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS), INCLUDING
LUBRICATION INSTRUCTIONS — Continued**

0155 00**g. USE OF TORQUE WRENCH ADAPTERS AND THE CONVERSION FORMULA.**

- 1) The torque values given in the text of this manual are the actual values that must be applied to the nut or screw for proper maintenance.
- 2) Some tasks require the use of a torque wrench adapter when the nut or screw cannot be reached with a regular socket on the end of the torque wrench. When an adapter is used on a torque wrench, definite rules must be followed or the nut or screw will be over- or under-torqued. The center line of the adapter should be used in one of two positions:
 - a) One position is to have the adapter center line at right angles to the center line of the torque wrench. In this position, the indicator reading does not have to be calculated and it may be read direct.



- b) The other position is to have the center line of the adapter in line with the center line of the torque wrench. In this case, the adapter adds to the overall length of the torque wrench and makes the dial or scale reading less than the actual torque applied to the nut or screw. To prevent overtightening and damage to equipment, you must calculate a corrected dial or scale reading.

