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**OPERATOR PREVENTIVE MAINTENANCE CHECKS AND SERVICES (PMCS) INTRODUCTION**

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**0008 00****GENERAL****NOTE**

- Information in this *PMCS Introduction* applies only to preventive maintenance checks and services for the Crew Protection Kit.
  - For information specific to the M1074/M1075 Palletized Load System (PLS) Tractor Truck, refer to the *PMCS Introduction* in TM 9-2320-364-10.
1. To ensure that the Crew Protection Kit is ready for operation at all times, it must be inspected on a regular basis so that defects may be found and corrected before they result in injury or death due to equipment failure.
  2. The PMCS Table in WP 0009 00 contains systematic instructions for inspections and services to keep equipment in good operating condition and ready for its primary mission.

**EXPLANATION OF TABLE ENTRIES**

1. **Item Number (Item No.) Column.** Numbers in this column are for reference. When completing DA Form 2404 or DA Form 5988-E (*Equipment Inspection and Maintenance Worksheet*), include the item number for the check/service indicating a fault. Item numbers also appear in the order in which you must perform checks and services for the interval listed.
2. **Interval Column.** This column tells you when you must perform the procedure in the procedure column.
  - a. *Before* procedures must be done immediately before you operate vehicle with Crew Protection Kit installed.
  - b. *After* procedures must be done immediately after operating vehicle with Crew Protection Kit installed.
  - c. *Weekly* procedures must be done once each week.
3. **Location, Item to Check/Service Column.** This column provides the location and item to be checked or serviced.

**NOTE**

The WARNINGS and CAUTIONS appearing in your PMCS table should always be observed. WARNINGS and CAUTIONS appear before applicable procedures. You must observe these WARNINGS to prevent injury or death to personnel, and CAUTIONS to prevent your equipment from being damaged.

4. **Procedure Column.** This column includes the procedure you must perform to know if the equipment is ready or available for its intended mission. You must perform the procedure at the time stated in the interval column.
5. **Not Fully Mission Capable If: Column.** Information in this column tells you which faults will keep your equipment from being capable of performing its primary mission. If you perform check/service procedures that show faults listed in this column, the equipment is not mission-capable. Follow standard operating procedures for maintaining the equipment or reporting equipment failure.

**GENERAL PMCS PROCEDURES**

1. Always perform PMCS in the same order. With experience, you should be able to identify problems easily.
2. If anything looks wrong and you can't fix it, write it on your DA Form 2404 or DA Form 5988-E. If you find something seriously wrong, IMMEDIATELY report it to your supervisor.
3. Before performing preventive maintenance, read all the checks required for the applicable interval and prepare everything needed to make all the checks. For example, you'll always need a rag (Item 7, WP 0033 00) or two.

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**GENERAL PMCS PROCEDURES - CONTINUED****WARNING**

Solvent cleaning compound MIL-PRF-680 Type III is an environmentally compliant and low toxic material. However, it may be irritating to the eyes and skin. Use protective gloves and goggles. Use in well-ventilated areas. Keep away from open flames and other sources of ignition. Failure to follow this warning may cause injury to personnel.

- a. **Keep It Clean.** Dirt, grease, oil, and debris may cover up a serious problem. Clean as you work and as needed. Use solvent cleaning compound (Item 2, WP 0033 00) on all metal surfaces. Use detergent (Item 4, WP 0033 00) and water when you clean rubber, plastic, and painted surfaces.

**WARNING**

When servicing this machine, performing maintenance, or disposing of materials such as engine coolant, hydraulic fluid, lubricants, battery acids or batteries, and CARC paint, consult your unit/local hazardous waste disposal center or safety office for local regulatory guidance. If further information is needed, please contact The Army Environmental Hotline at 1-800-872-3845.

- b. **Hazardous Waste Disposal.** Ensure all spills are cleaned up and disposed of IAW local policy and ordinances.
- c. **Rust and Corrosion.** Check metal parts for rust and corrosion. If any bare metal or corrosion exists, clean and apply a light coat of clean lubricating oil (Item 5, WP 0033 00). Report it to your supervisor.
- d. **Bolts, Rivnuts, Nuts, and Screws.** Check bolts, rivnuts, nuts, and screws for obvious loose, missing, bent, or broken condition. If you find loose or missing components, notify your supervisor.
- e. **Electric Wires and Connectors.** Look for cracked or broken insulation, bare wires, and loose or broken connectors. Reconnect loose connectors. Ensure that wires are in good condition.

**CAUTION**

- Remove rings or other hard objects from hands before cleaning ballistic glass. DO NOT use hard, dirty, or gritty cloths on ballistic glass. DO NOT apply water or detergent unless ballistic glass is cool and is protected from heating effects of sunlight. Failure to follow these instructions will damage ballistic glass.
- Do not use bug spray or other aerosol sprays on or near ballistic glass. Failure to follow these instructions will damage ballistic glass.

- f. **Ballistic Glass.** Keep ballistic glass clean (WP 0010 00).

4. **Inspection Procedures and Replacement Criteria for Armor and Ballistic Glass.**

- a. **Metallic Armor.** Inspect for damage and replace the armor if any of the following conditions exist:
  - (1) Stage 3 rust spots are areas of corrosion that may indicate a rusted-through condition; (i.e. metal in corroded area is unsound and small pin holes are present).
  - (2) Stage 4 rust is a rust through condition.
  - (3) User modifications that have not been authorized by the Vehicle PM.

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**GENERAL PMCS PROCEDURES - CONTINUED**

- (4) Examine areas around bolts and bolt holes for cracks or elongation of the holes. Cracks that are 1 inch or longer, or 2 consecutive bolt holes elongated are cause to replace the armor panel.
- (5) Look for signs that the armor has been deformed or damaged, including:
  - (a) Armor that is dented or bent out of shape.
  - (b) Bent door frames and door support posts which won't allow the doors to close properly.
  - (c) Bent, warped, or misaligned body panels that cause gaps between adjacent armor panels.
  - (d) Any complete penetration of the armor (a hole in the armor) or multiple gouges 1/4 inch or deeper within 3 inches of each other.
- b. **Ceramic/Composite Armor.** Inspect for damage and replace if there is any visible damage.
- c. **Transparent Armor (Ballistic Glass).** Inspect transparent armor for damage and replace if any of the following conditions exist:
  - (1) Cloudiness in the glass which interferes with the driver's vision.
  - (2) Rock chips, cracks with spider webbing, decals, or stickers that impair vision.
  - (3) Any hit that exposes the glass below the first layer.

**END OF WORK PACKAGE**

