

TECHNICAL MANUAL
VOLUME 1 OF 3
SCHEDULED MAINTENANCE
ORGANIZATIONAL LEVEL
5-TON, 6X6, M39 SERIES TRUCKS
(MULTIFUEL)

TRUCK, CHASSIS: M40A2C,
M61A2, M63A2; TRUCK, CARGO:
M54A2, M54A2C, M55A2; TRUCK,
DUMP: M51A2; TRUCK, TRACTOR:
M52A2; TRUCK, WRECKER, MEDIUM: M543A2

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Preventive
Maintenance

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Checkout ,
Alinement, and
Adjustment

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Lubrication

Chapter 4
Scheduled
Maintenance of
Material Used
in Conjunction
with Major
Items

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Allocation Chart

NOTE:
THE STYLE OF THIS TM IS
EXPERIMENTAL. IT IS BEING TRIED
BY THE ARMY ONLY ON
A LIMITED BASIS

DEPARTMENTS OF THE ARMY AND THE AIR FORCE
DECEMBER 1980

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DEPARTMENTS OF THE ARMY
AND
THE AIR FORCE
WASHINGTON, DC, 10 December 1980

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Model		NSN without Winch	NSN with Winch
Chassis	M40A2C	2320-00-969-4114	
	M61A2	2320-00-055-9264	2320-00-965-0321
	M63A2	2320-00-226-6251	2320-00-285-3757
Truck, Cargo	M54A2	2320-00-055-9266	2320-00-055-9265
	M54A2C	2320-00-926-0874	2320-00-926-0874
	M55A2C	2320-00-073-8476	2320-00-055-9259
Truck, Dump	M51A2	2320-00-055-9262	2320-00-055-9263
Truck, Tractor	M52A2	2320-00-055-9260	2320-00-055-9261
Truck, Wrecker, Medium	M543A2		2320-00-055-9258

*This manual together with TM 9-2320-211-20-2-1, 10 December 1980; TM 9-2320-211-20-2-2, 10 December 1980; TM 9-2320-20-3-1, 10 December 1980 and TM 9-2320-211-20-3-2, 10 December 1980 supersedes so much of TM 9-2320-211-20, 1 June 1973 as pertains to multi fuel vehicles.

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedure, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publication and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to: Commander, U.S. Army Tank Automotive Materiel Readiness Command, ATTN: DRSTA-MB, Warren, Michigan 48090. A reply will be furnished to you.

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CHAPTER 1

PREVENTIVE MAINTENANCE



1-1. General. The best way to maintain vehicles covered by this manual is to inspect them on a regular basis so minor faults can be discovered and corrected before they result in serious damage, failure, or injury. This section contains systematic instructions for inspection, adjustment, and correction of vehicle components to avoid costly repairs or major breakdowns. This is preventive maintenance checks and services (PMCS).

1-2. Intervals. organizational maintenance, assisted by operator crew will perform the checks and services contained in table 1-1 at the following intervals:

a. *Semiannually (S).* Every 6 months or 6,000 miles (9,654 km.), whichever comes first.

b. *Annually (A).* Every 12 months or 12,000 miles (19,308 km.), whichever comes first.

c. *Biennially (B).* Every 24 months or 24,000 miles (38,616 km.), whichever comes first.

1-3. Reporting Repairs. All vehicle shortcomings will be reported on DA 2404 (TM 38-750). Equipment Inspection and Maintenance Worksheet, immediately after the PMCS and before taking corrective action. They will also be reported in the equipment log.

1-4. General Service and Inspection Procedures,

a. While performing specific PMCS procedures make sure items are correctly assembled, secure, not unserviceable, not worn, not leaking, and adequately lubricated as defined below:

(1) An item is **CORRECTLY ASSEMBLED** when it is in proper position and all parts are present.

(2) When wires, nuts, washers, hoses, or attaching hardware to an item cannot be moved by hand, wrench, or pry-bar, it is **SECURE**.

(3) An item is **UNSERVICEABLE** if it is worn beyond repair and is likely to fail before the next scheduled inspection.

(4) An item is **WORN** if there is too much play between joining parts or marking data, warning, and caution plates are not readable.

(5) An item **LEAKS** if:

(a) There is fluid seepage as indicated by wetness, discoloration, or smell; or

(b) There is air seepage as indicated by a hissing sound or the formation of bubbles exist after water has been applied directly over the area in question.

(6) If an item meets the requirements specified by the lubrication order, LO-9-2320-211-12, then it is **ADEQUATELY LUBRICATED**.

b. Where the instruction "tighten" appears in a procedure, you must tighten with a wrench to the given torque value even when the item appears to be secure.

WARNING

Dry cleaning solvent used to clean parts can be harmful to personnel and property. Do not use near open flame or excessive heat. Flash point of solvent is 100° F (44.2° C).

c. Where the instruction "clean" appears in a procedure, you must use dry, cleaning solvent (SD-2), specification P-D 680 to clean grease or oil from metal parts. After the item is cleaned, rinsed, and dried, apply a light grade of oil to unprotected surfaces to prevent rusting. On rubber and plastic materials use soap and water.

NOTE

All references to TM9-2320-211-10 apply to the 10 Series only.

1-5. Specific PMCS Procedures.

a. The preventive maintenance for which you are responsible is provided below in table 1-1. The checks and services listed are arranged in logical order requiring minimal time and effort on your part.

b. The following columns read across on the PMCS schedule:

(1) *Item Number*. Provides logical order for PMCS performance and is used as a source number for SF-368, on which your PMCS results will be recorded.

(2) *Intervals*. Shows a bullet (•) opposite each item number to indicate when that check is to be performed. The bullet will be repeated when consecutive item numbers are to be inspected during the same interval. Interval columns include:

- (a) Semiannual (six month) checks;
- (b) Annual (yearly) checks; and
- (c) Biennially (every two years) checks.

(3) *Item To Be Inspected*. Lists the system, common name, or location of the item to be inspected.

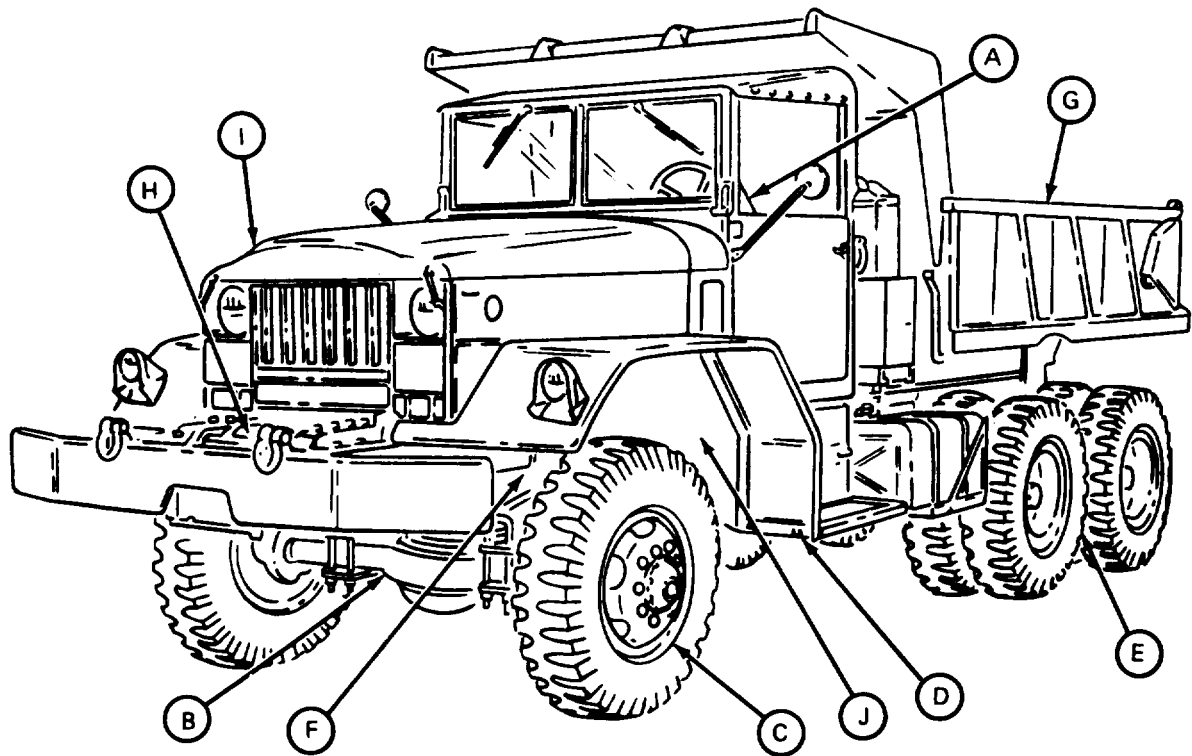
(4) *Procedures*. Provides instructions for servicing, inspection, replacement, or adjustment, and in some cases, having item repaired at a higher level.

1-6. Preventive Maintenance Locators.

Figures 1-1 through 1-5 show general locations for PMCS.

NOTE

Always do your preventive maintenance checks and services in the order it has been prepared. Once it gets to be a habit, you'll be able to spot anything wrong in a hurry.



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- | | |
|-----------------------------------|--------------------------------|
| A. Controls | E. Rear axles |
| B. Front axle | Rear differentials |
| Front differential | Rear springs |
| Front springs and shock absorbers | F. Steering system |
| C. Wheel hubs | G. Body and frame |
| Brake drums | H. Front winch |
| Wheels and tires | I. Air cleaner |
| D. Transmission | Engine crankcase breather |
| Transfer case | Oil filters |
| Propeller shafts | Manifold preheater |
| Air reservoirs | J. Fuel filters and fuel lines |
| Air-hydraulic cylinder | |

Figure 1-1. Preventive Maintenance Locators.