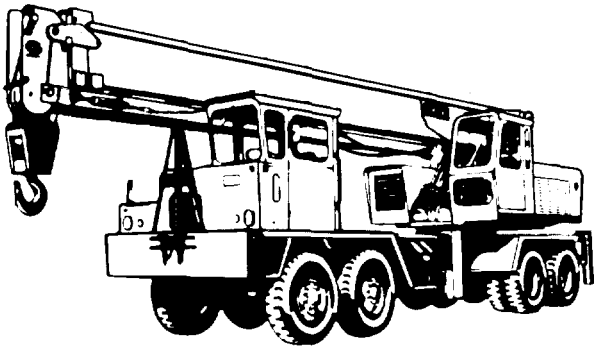
TECHNICAL MANUAL

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS LIST AND SPECIAL TOOLS LIST)

FOR
CRANE, TRUCK MOUNTED
HYDRAULIC 25 TON (CCE)
GROVE MODEL TM S-300-5
(NAN 3810-01-054-9779)



VOLUME 2
(CARRIER)

HEADQUARTERS, DEPARTMENT OF THE ARMY

8 MAY 84

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Technical Manual

No. 5-3810-300-24 & P2

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DEPARTMENT OF THE ARMY
Washington, DC, 8 May 1984

ORGANIZATIONAL, DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE MANUAL (INCLUDING REPAIR PARTS LIST AND SPECIAL TOOLS LIST) FOR

CRANE, TRUCK MOUNTED, HYDRAULIC 25 TON (CCE) GROVE MODEL TM S-300-5 (NSN 3810-01-054-9779)

Procured under Contract No. DSA 700-77-C-8511

REPORTING OF ERRORS

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

VOLUME II
(CARRIER)

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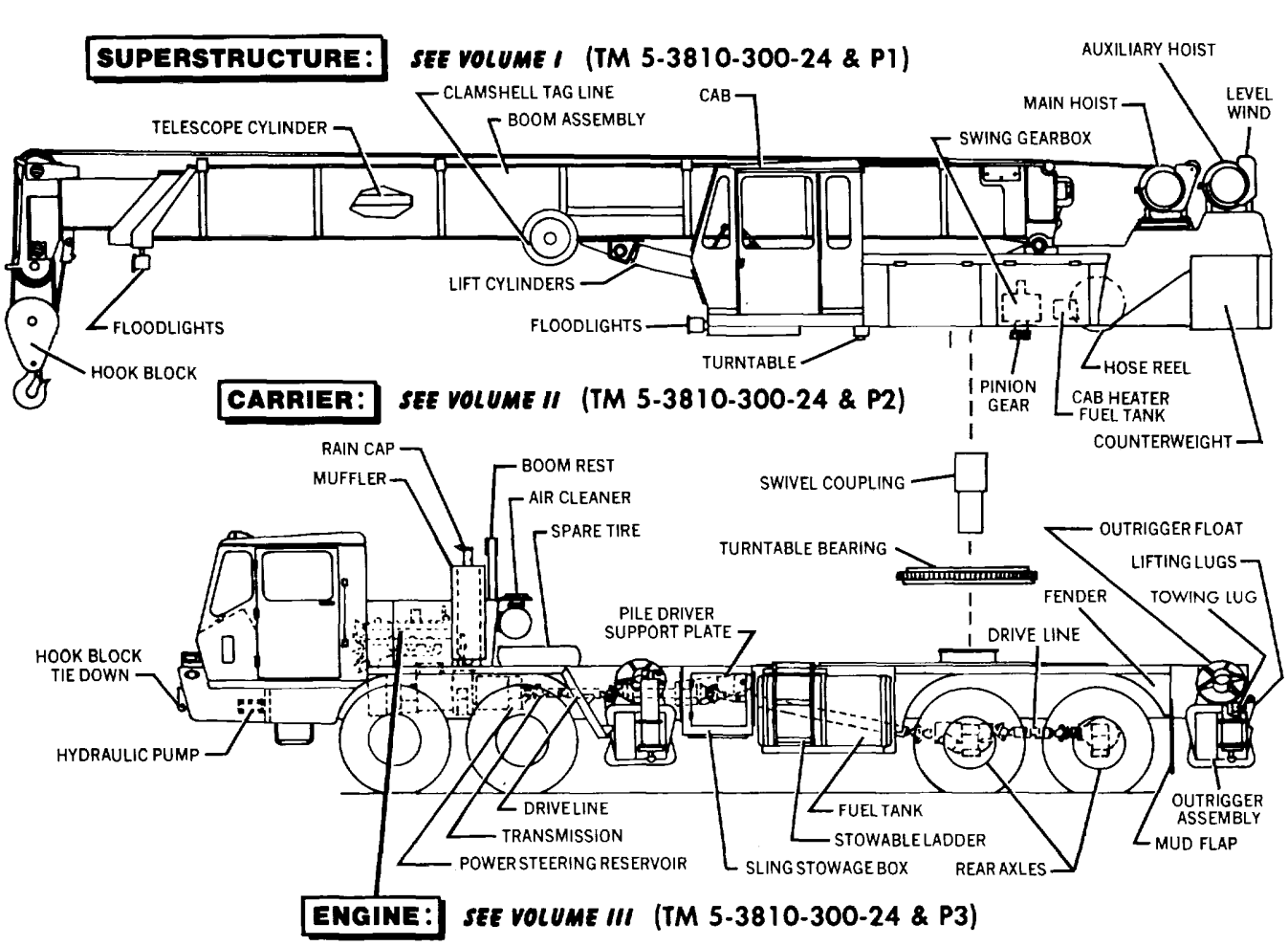
This technical manual is an authentication of the manufacturers commercial literature and does not conform with the format and content specified in AR 310-3, Military Publications. This technical manual does, however, contain available information that is essential to the operation and maintenance of the equipment.

Illustration 1 TMS300-5 Component Location.



IMPORTANT MAINTENANCE INFORMATION

The quarterly Equipment Improvement Report and Maintenance Digest TB 43-0001-41 series contains valuable field information on the equipment covered in this manual. The information in TB 43-0001-41 series is compiled from some of the Equipment Improvement Reports (SF 368) that you prepared on the vehicle covered in this manual. Many of these articles result from comments, suggestions, and improvement recommendations that you submitted to the EIR program. The TB 430001-41 series contains information on equipment improvements, minor alternations, proposed Modification Work Orders (MWO's), actions taken on some of your DA Form 2028's, and advance information on proposed changes that may affect this manual.

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SECTION IV

CARRIER

INTRODUCTION. (Illus. 4-1).

This section provides descriptive and maintenance information for the Carrier. The descriptive text describes the operation of the Carrier Components. When required, cutaway and block diagrams are provided to support the text. Also, maintenance information is provided to help personnel repair and service the Carrier. Descriptive and maintenance information for major optional equipment is given.

DESCRIPTION. (Illus. 4-2).

Controls, Gages and Indicators.

The items that follow identify the controls, gages, and indicators in the Carrier Cab. Also, the paragraphs specify the purpose of each control, indicator, and gage. The index numbers on the illustration correspond to the numbers in the paragraphs.

1. Remote Throttle Control. Controls operation of the Superstructure throttle. When in the ON position allows the Superstructure air throttle system to control engine rpm.

2. Voltmeter. Indicates the battery condition, when alternator is not producing electromotive force (volts). Also, shows condition of the charging system when engine is operating.

3. Engine Oil Pressure Gage. Normal operating pressures should remain in a range of 40 to 60 psi.

4. Engine Water Temperature Gage. Normal temperature indication should be in the range of 170 to 185"F. If temperature indication is abnormal, operation of automatic radiator shutters and/or the thermostat should be checked.

5. Engine Tachometer. Indicates revolutions per minute at which engine is operating.

   Main Air System Pressure Gage. (Not Shown). Indicates pressure in main air tank. Operating range is normally between 95 and 125 psi. If pressure drops below 75 psi, a low pressure warning buzzer will operate and the red warning light will illuminate.

   Fuel Gage. (Not Shown). Indicates fuel tank quantity in fractions of the total tank capacity.

6. Low Air Pressure Warning Light. This light activates simultaneously with the warning buzzer. If traveling, immediate stop should be made to avoid automatic application of spring brakes.

7. Speedometer and Odometer. Indicates road speed and total mileage vehicle has traveled.

8. Light Beam Indicator Light. Indicates whether lights are on LOW or HIGH beam.

9. Differential Lock Indicator Light. Indicates when the inter-axle differential control is in the LOCK position.

10. Inter-Axle Differential Control Lever. When positioned to LOCK engages (LOCK OUT) the inter-axle differential.

11. Cab Light Switch. Controls overhead light.