

21 DECEMBER 83

**SCRAPERS, EARTHMOVING, TOWED; HYDRAULIC OPERATED, 8 CU YD, (MRS MANUFACTURING CO. MODEL MS-100) (NSN 3805-00-051-3139) AND (MODEL MRS-100) (3805-00-418-0115) AIR DROPPABLE AND (3805-00-418-0116) AIR TRANSPORTABLE**

Reference: TM 5-3805-235-13 and FEDERAL SUPPLY CATALOG C9100-1L.

Hard time intervals and the related man-hour times are based on normal operation. The man-hour time specified is the time you need to do all the services prescribed for a particular interval. Change the hard time interval if your lubricants are contaminated or if you are operating the equipment under adverse operating conditions, including longer-than-usual operating hours. The hard time interval may be extended during periods of low activity. If extended, adequate preservation precautions must be taken.

**WARNING**

**Dry cleaning fluid is flammable. Do not use near a flame or excessive heat. Use only with adequate ventilation. Avoid prolonged breathing of vapors and minimize skin contact**

Clean parts or fittings with dry cleaning solvent (SD), Type II or equivalent. Dry before lubricating. Dotted arrow shafts indicate lubrication on both sides of equipment. A dotted circle indicates a drain below. Relubricate all items found contaminated after fording or washing.

The lowest level of maintenance authorized to lubricate a point is indicated by one of the following symbols as appropriate: Operator/Crew (C); and Organizational Maintenance (O).

**Reporting errors and recommending improvements.** You can help us 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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) direct to: Commander, US Army Tank-Automotive Command, ATTN: DRSTA-MB, Warren, MI 48090. A reply will be furnished to you.

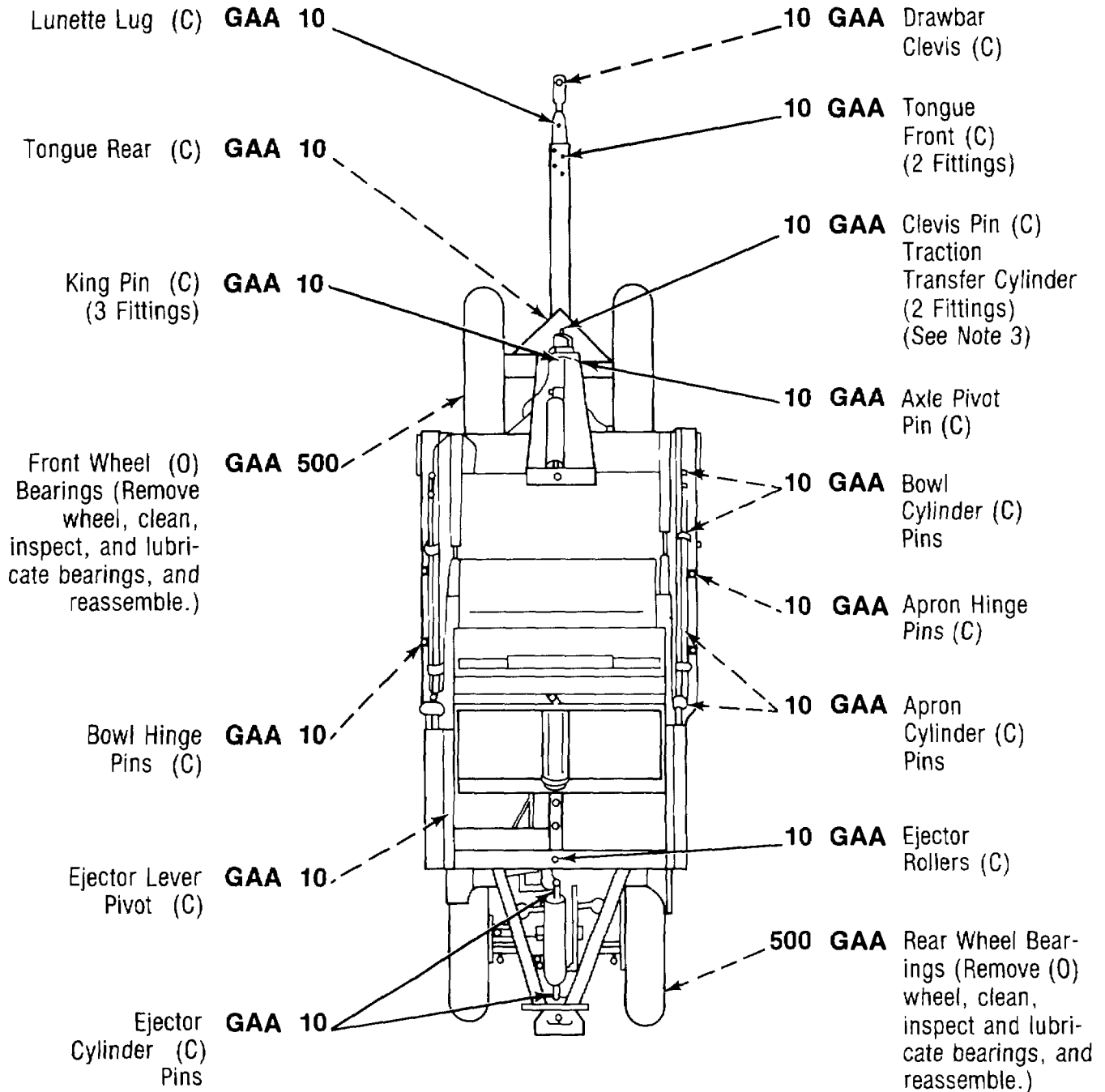
\*The time specified is the time required to perform all services at the particular interval.

*TOTAL MAN-HOURS		*TOTAL MAN-HOURS	
INTERVAL	MAN-HOURS	INTERVAL	MAN-HOURS
10	2.2	500	2.0

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**LUBRICANT • INTERVAL**

**INTERVAL • LUBRICANT**



**PLAN VIEW**

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\* KEY -

LUBRICANTS	CAPACITY	EXPECTED TEMPERATURES			INTERVALS
		Above +15°F (Above -9°)	+40°F to -15° F (+4° to -26°)	+40°F to -65°F (+4° to -54°)	
<b>OE/ - HDO</b> - Lubricating Oil, Internal Combustion Engine, Tactical Service  <b>OEA</b> - Lubricating Oil, Internal Combustion Engine, Arctic - Oil Can Points (See Note 2)		OE/HDO 30	OE/HDO 10	OEA (See Note 1)	For Arctic operation refer to FM 9-207  Intervals given are in hours of normal operation.
<b>GAA</b> - Grease, Automotive and Artillery		ALL TEMPERATURES			

\*See Note 4 for lubricant specification number.

NOTES:

- FOR OPERATION OF EQUIPMENT in PROTRACTED COLD TEMPERATURES BELOW -15°F (-26°C). Remove lubricants prescribed in Key for temperatures above -150F (-26°C). Relubricate with lubricants specified in Key for temperatures below -150°F (-26°C). If OEA lubricant is required to meet the temperature ranges prescribed in the Key, OEA lubricant is to be used in place of OE/HDO-10 lubricant for all temperature ranges where OE/HDO-10 is specified in the Key.
- OIL CAN POINTS. Each 10 hours lubricate control linkage, pins and devises, and all exposed adjusting threads with OE/HDO.
- TRACTION WEIGHT TRANSFER CYLINDER. Every 10 hours lubricate the bottom cylinder and pivot pins and top cylinder pin, not shown, with GAA.
- LUBRICANTS. The following is a list of lubricants with military symbols and applicable specification numbers.

OE/HDO	MIL-L-2104
GAA	M IL-G-10924
OEA	MIL-L-46167
(SD), Type II	P-D-680

Copy of this Lubrication Order will remain with the equipment at all times, instructions contained herein are mandatory.

By order of the Secretary of the Army:

JOHN A. WICKHAM, JR.  
*General, United States Army*  
 Chief of Staff OFFICIAL:

ROBERT M. JOYCE  
*Major General, United States Army*  
 The Adjutant General

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To be distributed in accordance with DA Form 12-25B, Operator and Organizational maintenance requirements for Scrapers.

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