LAUNDRY UNIT, TRAILER MOUNTED, M85

MODEL: M85-200

(3510-01-365-5687)

References: TM 9-2330-376-14&P

TM 5-6115-585-12 TM 10-3510-222-10 TM 10-3510-222-24 TM 10-3510-222-24P

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 or DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to: Commander, U.S. Army Aviation and Troop Command, ATTN: AMSAT-I- MTS, 4300 Goodfellow Blvd., St. Louis, MO 63120-1798. A reply will be furnished to you.

DISTRIRUTION STATFMFNT A: Approved for public release; distribution is unlimited.

GENERAL NOTES

This LO is for operator/crew (C) and unit (0) maintenance. Lube intervals (on-condition or hard time) are based on normal operation. Lube during constant use, and less during inactive periods. The task-hour specified is the time you need to do all the services prescribed for a particular interval. Use correct grade of lubricant for seasonal temperature expected.

On the picture, a dashed line (--) means there are lubrication points on both sides of the equipment.

Laundry Unit cannot operate at/or below 32°F (0°C). If temperature will be at/or below 32°F (0°C), operate Laundry Unit in suitable shelter.

This Laundry Unit is not enrolled in the Army Oil Analysis Program. HARDTIME INTERVALS APPLY.

Refer to TM 10-3510-222-10 for Corrosion Prevention and Control.

The lubrication intervals and symbols are listed below:

M = Monthly

Q = Quarterly

S = Semiannually

A = Annually

Before you start your lubrications:

- **ALWAYS NEVER**
- a. Clean grease fittings before lubrication.
- b. Use the lubrication order as your guide.
- c. After lubrication, wipe excess grease from fittings to prevent build up of dirt, grit, and contaminants.
- d. Normally drain gear case when hot. Fill and check oil level.

- a. Use wrong type/grade grease.
- b. Use too much lubricant.

Table 1. Lubricant for Washer

| Nomenclature / Temperature Range | Lubricant Mil Symbol (NATO Code) Specification | Capacity | Interval | Task-hour |
|---|---|--|----------|-----------|
| Alternating Current Motor Grease Fittings (See Note 1) Above 32°F (0°C) | GAA (G-403) MIL-G-10924 | As Required | S | 5 |
| Gear Reducer (See Note 2) Above 32°F to 60°F (0°C to 16°C) | GO (TBD) AGMA 2 | Until Oil Flows Out of Level Indicator (2.5 quarts) | А | 1.0 |
| Above 50°F to 125°F (10° C to 52°C) | GO (TBD) AGMA 4 | Until Oil Flows Out of Level Indicator (2.5 quarts) | А | 1.0 |

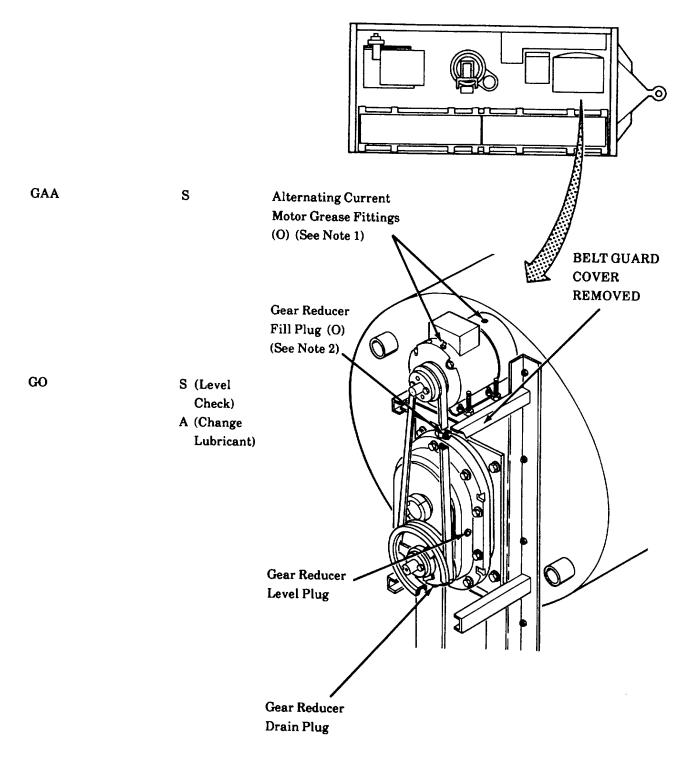
Table 2. Lubricant for Extractor

| Nomenclature / Temperature Range | Lubricant Mil Symbol (NATO Code) Specification | Capacity | Interval | Task-hour |
|--|---|-------------|----------|-----------|
| Basket Ball (See Note 3) | | | | |
| Above 32°F (0°C) | GAA (G-403) MIL-G-10924 | Light Coat | Q | 5 |
| Brake Shoe and Brake Operating Arm Grease Fittings | | | | |
| (See Note 4) Above 32°F (0°C) | GAA (G-403) MIL-G-10924 | As Required | Q | 1.0 |
| Lid Lock Lever and Lid Hinge Grease Fittings (See Note 5) | | | | |
| Above 32°F (0°C) | GAA (G-403) MIL-G-10924 | As Required | Q | 1.0 |

Table 3. Lubricant for Dryer

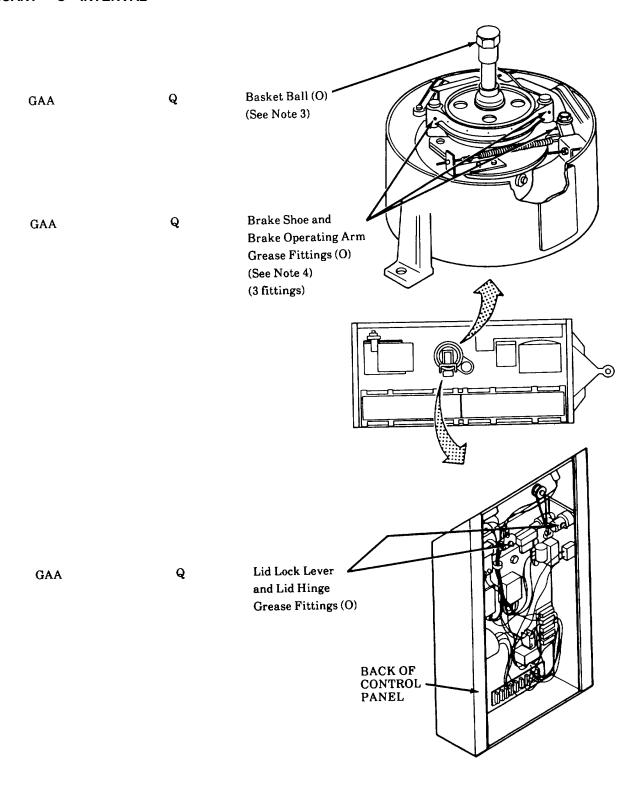
| Nomenclature / Temperature Range | Lubricant Mil Symbol (NATO Code) Specification | Capacity | Interval | Task-hour |
|-------------------------------------|---|-----------------|----------|-----------|
| Trunnion Ball Bearings | | | | |
| Grease Cups | | | | |
| (See Note 6) | | | _ | _ |
| Above 32°F (0°C) | GAA (G-403) | As Required | Q | 5 |
| | (G-403) MIL-G-10924 | | | |
| Oil Lube Cover for | 0 10021 | | | |
| Chain | | | | |
| (See Note 7) | 05/1100 45/40 | | | _ |
| Above 32°F (0°C) | OE/HDO 15/40 (0-1236) | As Required | M | 5 |
| | MIL-L-2104 | | | |
| Reducer | | | | |
| (See Note 8) | | | | |
| Above 32°F (0°C) | GO | Until Oil Flows | A | 2.0 |
| | (TBD) | Out of Level | | |
| | AGMA 8EP | Indicator | | |

WASHER LUBRICANT ● INTERVAL



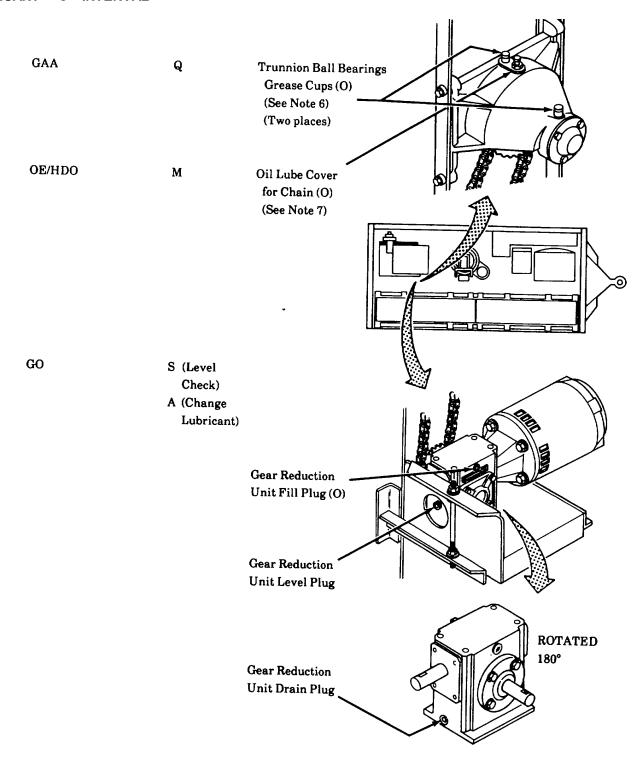
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EXTRACTOR LUBRICANT ● INTERVAL



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DRYER LUBRICANT ● INTERVAL



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NOTES

- 1. Lubricate washer alternating current motor per steps below:
 - a. Remove electrical power from laundry unit.
 - b. Remove belt guard cover.
 - c. Apply grease per Table 1 to grease fittings.
 - d. Install belt guard cover.
- 2. Lubricate washer gear reducer per one of steps below:
 - a. Check level of lubricant (semiannually) per substeps below:
 - (1) Remove electrical power from laundry unit.
 - (2) Remove belt guard cover.
 - (3) Remove level plug.
 - (4) Remove fill plug.
 - (5) Add lubricant per Table I until it flows out of level hole.
 - (6) Install level plug.
 - (7) Install fill plug.
 - (8) Install belt guard cover.
 - b. Drain and refill lubricant (annually) per substeps below:
 - (1) Remove electrical power from laundry unit.
 - (2) Remove belt guard cover.
 - (3) Place container (to hold lubricant) under drain plug.
 - (4) Remove drain plug.
 - (5) Remove fill plug.
 - (6) Remove level plug.
 - (7) Install drain plug.
 - (8) Add lubricant per Table 1 until it flows out of level hole.
 - (9) Install level plug.
 - (10) Install fill plug.
 - (11) Install belt guard cover.

3. Lubricate extractor basket ball per steps below:

NOTE

If you push one side of basket down when empty, it should rock back to level position; if not, lubricate basket ball.

- a. Remove electrical power from laundry unit.
- b. Open extractor lid.

WARNING

Basket is very heavy about 200 lbs (91 kg) and will require 4 people to lift out of extractor.

- c. Remove basket from extractor.
- d. Lightly grease, per Table 2, top of basket ball.
- e. Install basket on extractor.
- f. Close extractor lid if not in use.
- 4. Lubricate extractor brake shoe and brake operating arm per steps below:
 - a. Remove electrical power from laundry unit.
 - b. Open extractor lid.

WARNING

Basket is very heavy about 200 lbs (91kg) and will require 4 people to lift out of extractor.

- c. Remove basket from extractor.
- d. Remove curb from extractor.
- e. Apply grease, per Table 2, to grease fittings.
- f. Install curb in extractor.
- g. Install basket in extractor.
- h. Close extractor lid if not in use.
- 5. Lubricate extractor lid lock lever and lid hinge per steps below:
 - a. Remove electrical power from laundry unit.
 - b. Remove metal plate from back of extractor control panel.
 - c. Apply grease, per Table 2, to grease fittings.
 - d. Install metal plate on back of extractor control panel.

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- 6. Lubricate dryer trunnion ball bearings per steps below:
 - a. Remove electrical power from laundry unit.

NOTE

If grease cups have been turned down all the way, they need to be removed and filled per Table 3 with lubricant.

- b. Turn grease cups to the right one-quarter turn.
- 7. Lubricate dryer chain per steps below:
 - a. Remove electrical power from laundry unit.
 - b. Open oil lube cover.
 - c. Apply a few drops of lubricant, per Table 3, in hole.
 - d. Close oil lube cover.
- 8. Lubricate dryer gear reduction unit per one of steps below:
 - a. Check level of lubricant (quarterly) per substeps below:
 - (1) Remove electrical power from laundry unit.
 - (2) Remove level plug.
 - (3) Remove fill plug.
 - (4) Add lubricant per Table 3, until it flows out of level hole.
 - (5) Install level plug.
 - (6) Install fill plug.
 - b. Drain and refill lubricant (semiannually) per substeps below:
 - (1) Remove electrical power from laundry unit.
 - (2) Place container (to hold lubricant) under drain plug.
 - (3) Remove drain plug.
 - (4) Remove fill plug.
 - (5) Remove level plug.
 - (6) Install drain plug.
 - (7) Add lubricant per Table 3, until it flows out of level hole.
 - (8) Install level plug.
 - (9) Install fill plug.

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:

Official:

mitte of dunto

GORDON R. SULLIVAN General, United States Ami y Chief of Staff

MILTON H. HAMILTON

Administrative Assistant to the

Secretary of the Amry

DISTRIBUTION:

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PREVIOUS EDITIONS ARE OBSOLETE. P.S.--IF YOUR OUTFIT WANTS TO KNOW ABOUT YOUR RECOMMENDATION MAKE A CARBON COPY OF THIS AND GIVE IT TO YOUR HEADQUARTERS.

The Metric System and Equivalents

Linear Measure

- 1 centimeter = 10 millimeters = .39 inch
- 1 decimeter = 10 centimeters = 3.94 inches
- 1 meter = 10 decimeters = 39.37 inches
- 1 dekameter = 10 meters = 32.8 feet
- 1 hectometer = 10 dekameters = 328.08 feet
- 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

- 1 centigram = 10 milligrams = .15 grain
- 1 decigram = 10 centigrams = 1.54 grains
- 1 gram = 10 decigram = .035 ounce
- 1 decagram = 10 grams = .35 ounce
- 1 hectogram = 10 decagrams = 3.52 ounces
- 1 kilogram = 10 hectograms = 2.2 pounds
- 1 quintal = 100 kilograms = 220.46 pounds
- 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

- 1 centiliter = 10 milliters = .34 fl. ounce
- 1 deciliter = 10 centiliters = 3.38 fl. ounces
- 1 liter = 10 deciliters = 33.81 fl. ounces
- 1 dekaliter = 10 liters = 2.64 gallons
- 1 hectoliter = 10 dekaliters = 26.42 gallons
- 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

- 1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
- 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
- 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
- 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
- 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

- 1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
- 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
- 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

| To change | То | Multiply by | To change | То | Multiply by |
|---------------|--------------------|-------------|--------------------|---------------|-------------|
| inches | centimeters | 2.540 | ounce-inches | Newton-meters | .007062 |
| feet | meters | .305 | centimeters | inches | .394 |
| yards | meters | .914 | meters | feet | 3.280 |
| miles | kilometers | 1.609 | meters | yards | 1.094 |
| square inches | square centimeters | 6.451 | kilometers | miles | .621 |
| square feet | square meters | .093 | square centimeters | square inches | .155 |
| square yards | square meters | .836 | square meters | square feet | 10.764 |
| square miles | square kilometers | 2.590 | square meters | square yards | 1.196 |
| acres | square hectometers | .405 | square kilometers | square miles | .386 |
| cubic feet | cubic meters | .028 | square hectometers | acres | 2.471 |
| cubic yards | cubic meters | .765 | cubic meters | cubic feet | 35.315 |
| fluid ounces | milliliters | 29,573 | cubic meters | cubic yards | 1.308 |
| pints | liters | .473 | milliliters | fluid ounces | .034 |
| quarts | liters | .946 | liters | pints | 2.113 |
| gallons | liters | 3.785 | liters | quarts | 1.057 |
| ounces | grams | 28.349 | liters | gallons | .264 |
| pounds | kilograms | .454 | grams | ounces | .035 |
| short tons | metric tons | .907 | kilograms | pounds | 2.205 |
| pound-feet | Newton-meters | 1.356 | metric tons | short tons | 1.102 |
| pound-inches | Newton-meters | .11296 | | | |

Temperature (Exact)

| °F | Fahrenheit | 5/9 (after | Celsius | °C |
|----|-------------|-----------------|-------------|----|
| | temperature | subtracting 32) | temperature | |

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