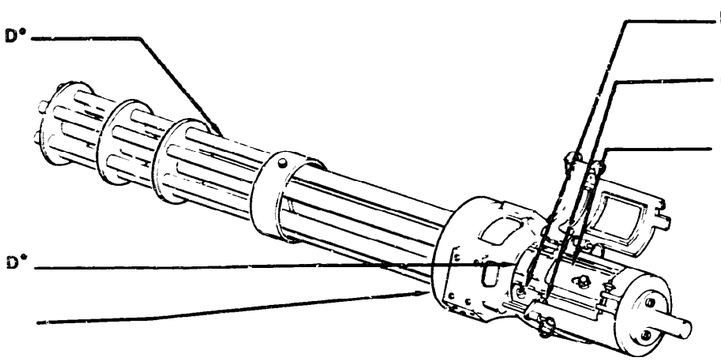
ARMAMENT SUBSYSTEM, HELICOPTER, 7.62 MILLIMETER MACHINE GUN: HIGH RATE, XM27E1 (1005-933-6242) (USED ON OH-6A AND OH-58A HELICOPTERS)

Reference:
TM 9-1005-298-12

Intervals are based on normal operation. Reduce to compensate for abnormal operation, severe conditions, or contaminated lubricants. During inactive periods, intervals may be extended commensurate with adequate preservation. Sufficient lubrication must be performed for adequate preservation.

Clean parts, except electrical and rubber with THINNER, PAINT, MINERAL SPIRITS (TPM), DRY CLEANING SOLVENT (SD), OR CLEANING COMPOUND, SOLVENT (Ck). Dry before lubricating.

LUBRICANT-INTERVAL | **INTERVAL-LUBRICANT**



7.62 MILLIMETER MACHINE GUN M134

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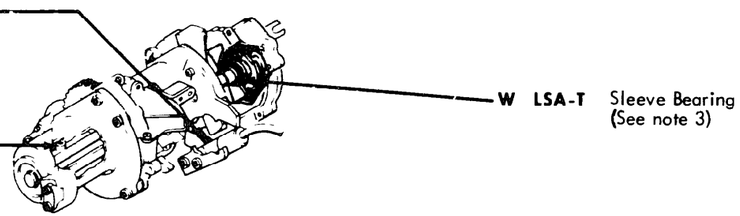
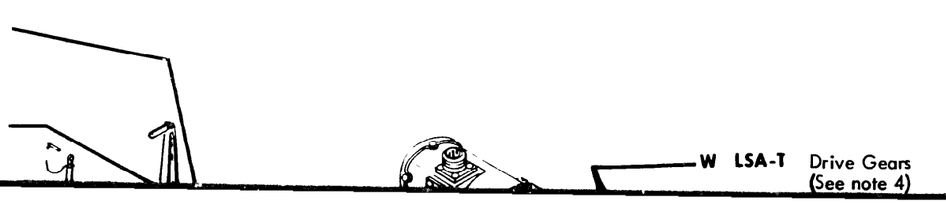
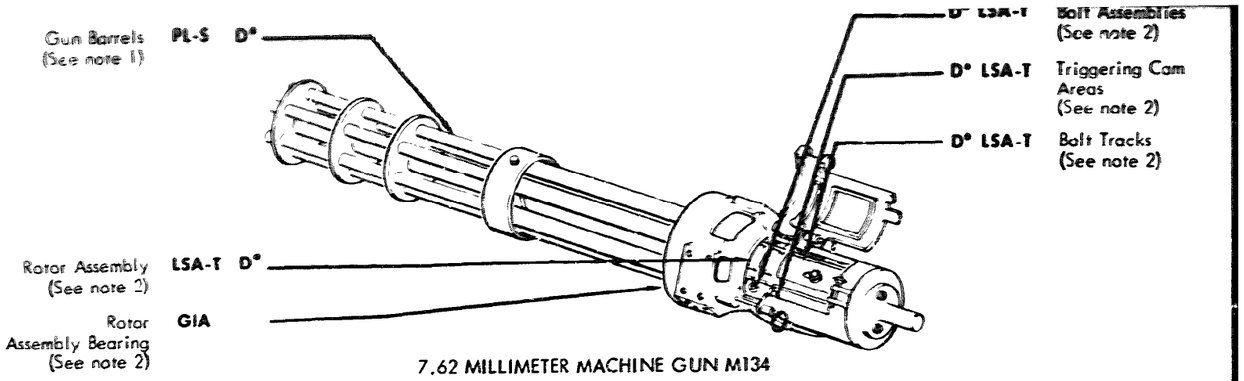


DELINKING FEEDER MAU-56/A AND SENSING UNIT ASSEMBLY





7.62 MILLIMETER MACHINE GUN M134

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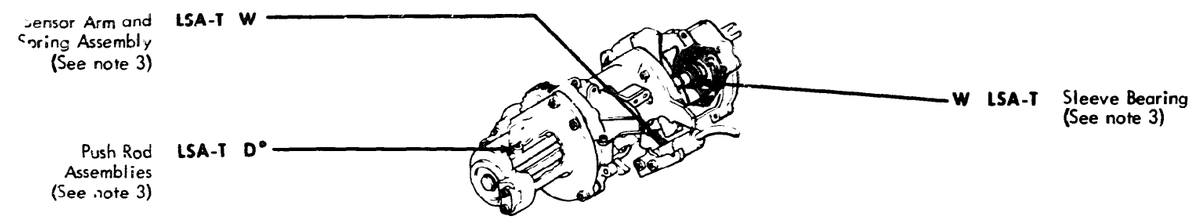
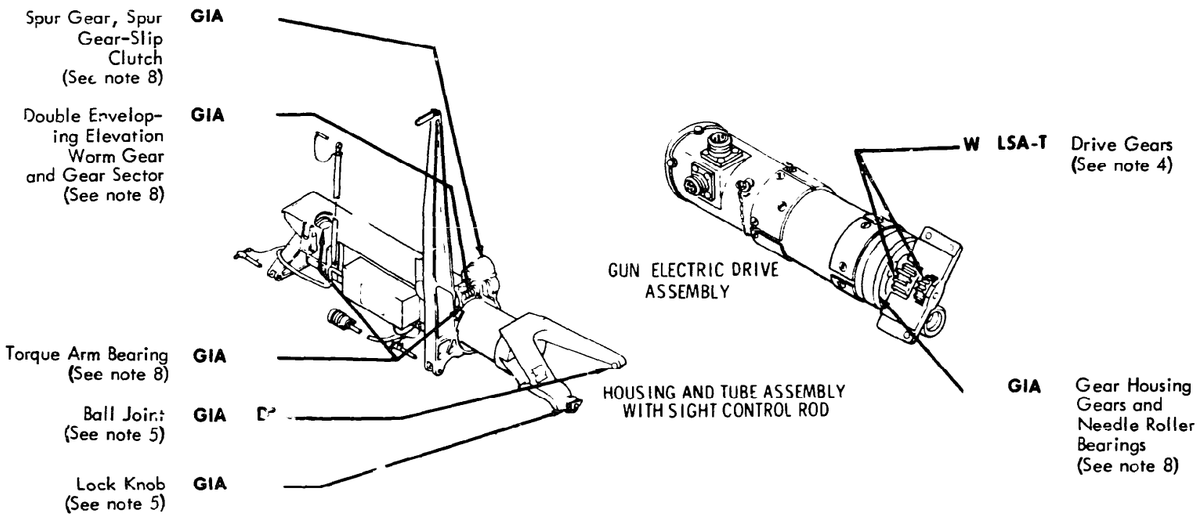
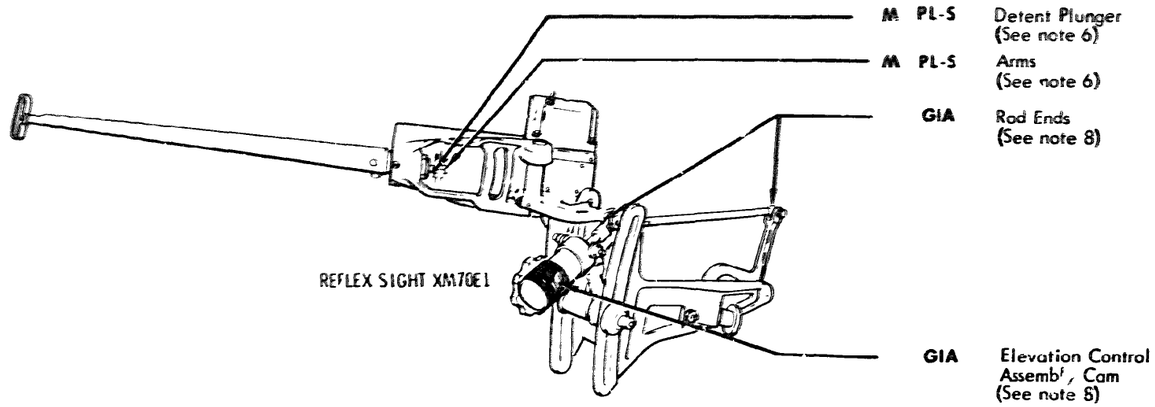


DELINKING FEEDER MAU-56/A AND SENSING UNIT ASSEMBLY



LUBRICANT-INTERVAL

INTERVAL-LUBRICANT



-KEY-

LUBRICANTS		EXPECTED TEMPERATURES			FOR ARCTIC OPERATIONS (refer to TM 9-207)	INTERVALS	
		Above +32°F	+40°F to -10°F	0°F to -65°F			
PL-S	LUBRICATING OIL, General purpose	PL-S	PL-S	LAW		D*	Daily (See note 9)
LAW	LUBRICATING OIL, weapons	Replaces PL-S and LSA-T at low temperatures				W	Weekly
LSA-T	LUBRICATING OIL, semi-fluid	LSA-T	LSA-T	LAW		M	Monthly
GIA	GREASE, Aircraft and Instrument	ALL TEMPERATURES				Q	Quarterly

FOLD FOLD

-NOTES-

1 GUN BARRELS After each firing mission clean all powder-fouled surfaces with Cleaning Compound, Solvent (CR). Wipe dry and lightly coot bore and chamber of each barrel with PL-S. Before firing, remove oil from bore andchamber. MAKE SURE THAT EACH CHAMBER is CLEAN AND FREE OF CARBON DEPOSITS AND/OR LUBRICANTS BEFORE EACH FIRING MISSION.

2. MACHINE GUN M134- After each firing mission or doily, clean external surfaces with Thinner, Paint, Mineral Spirits (TPM) or Dry Cleaning Solvent (SD). Wipe dry and apply a light coat of LSA-T. Lubricate bolt assemblies, bolt tracks, triggering cam areas, and rotor assembly with LSA-T. Disassemble weapon after firing approximately 20,000 rounds, and clean bolt assemblies, bolt tracks, triggering cam areas, and rotor assembly with SD, wipe dry and lubricate with LSA-T. Also, clean and repack rotor assembly bearing with GIA. NOTE. Do not immerse boll bearings in solvent. Wipe these items with a dry clean cloth. lubricate remaining items with LSA-T.

3 DELINKING FEEDER MAU-56/A AND SENSING UNIT ASSEMBLY - After each firing mission, or daily, clean external surfaceswith TPM or SD, wipe dry, and apply a light coat of LSA-T to delinking feeder MAU-56/A. After approximately 20,000 rounds of firing, disassemble delinking feeder MAU-56/A Clean

approximately 20,000 rounds or firing, remove gun electric drive assembly and clean with SD. Wipe dry and lubricate drive gears with LSA-T

NOTE: Do not immerse gun electric drive assembly in solvent.

5 HOUSING AND TUBE ASSEMBLY WITH SIGHT CONTROL ROD- Daily, clean external surfaces with SD, wipe dry and lubricate boll joint w it h GIA. After firing approximately 20,000 rounds lubricate lock knob with GIA.

6. REFLEX SIGHT XM70EI- Whenever dirt or dust accumulates on the sight, clean with SD and wipe dry. Monthly, lightly lubricate detent plunger and arms with PL-S. Avoid excessive amounts of lubrication to prevent attraction of foreign matter.

7 DO NOT LUBRICATE- Gun drive control assembly of gun electric drive assembly and resilient mount of ho us i n g and tube assembly.

8 DISASSEMBLED FOR LUBRICATION BY DIRECT AND GENERAL SUPPORT MAINTENANCE PERSONNEL- When disassembled for maintenance, clean and lubricate spur gear, spur gear-slip clutch, double enveloping elevation worm gear, gear sector and torque arm bearings of housing and tube assembly; all gearing and needle roller bearings in gear housing of gun electric drive assembly; and rod ends and elevation control assembly cam of

-KEY-

LUBRICANTS		EXPECTED TEMPERATURES			FOR ARCTIC OPERATIONS (refer to TM 9-207)	INTERVALS	
		Above +32°F	+40°F to -10°F	0°F to -65°F			
PL-S	LUBRICATING OIL, General purpose	PL-S	PL-S	LAW		D*	Daily (See note 9)
LAW	LUBRICATING OIL, weapons	Replaces PL-S and LSA-T at low temperatures				W	Weekly
LSA-T	LUBRICATING OIL, semi-fluid	LSA-T	LSA-T	LAW		M	Monthly
GIA	GREASE, Aircraft and Instrument	ALL TEMPERATURES				Q	Quarterly

-NOTES-

1. GUN BARRELS- After each firing mission, clean all powder-fouled surfaces with Cleaning Compound, Sol rent (CR). Wipe dry and lightly coat bore and chamber of each barrel with PL-S. Before firing, remove oil from bore and&amber. MAKE SURE THAT EACH CHAMBER IS CLEAN AnD FREE OF CARBON DEPOSITS AND/OR LUBRICANTS BEFORE EACH FIRING MISSION.

2. MACHINE GUN M134- After each firing mission or daily, clean external surfaces with Thinner, Paint, Mineral Spirits (TPM) or Dry Cleaning Solvent (SD). Wipe dry and apply a light coat of LSA-T. Lubricate bolt assemblies, bolt tracks, triggering cam areas, and rotor assembly with LSA-T. Disassemble weapon after firing approximately 20,000 rounds, and clean bolt ass e m b l i es, bolt tracks, triggering cam areas, and rotor ossembly with SD, wipe dry and lubricate with LSA-T. Also, clean and repack rotor assembly bearing with G IA. NOTE: Do not immerse ball bearings in solvent. Wipe these items with a dry clean cloth. Lubricate remaining items with LSA-T.

3. DELINKING FEEDER MAU-56/A AND SENSING UNIT ASSEMBLY - After each firing mission, or daily, clean external surfaces with TPM or SD, wipe dry, and apply a light coot of LSA-T to delinking feeder MAU-56/A. After approximately 20,000 rounds of firing, disassemble delinking feeder MAU-56/A Clean with SD, wipe dry, and lubricate push rod assemblies and sleeve bearing with LSA-T Lubricate only the sensor arm and spring assembly of the sensing unit assembly. NOTE - Do not immerse sealed bearings or electrical components in solvent.

4. GUN ELECTRIC DRIVE ASSEMBLY- After each firing mission, or daily, clean external surfaces with SD and wipe dry, After approximately 20,000 rounds of firing, remove gun electric drive assembly and clean with SD. Wipe dry and lubricate drive gears with LSA-T

NOTE: Do not immerse gun electric drive assembly in solvent.

5. HOUSING AND TUBE ASSEMBLY WITH SIGHT CONTROL ROD- Daily, clean external surfaces with SD, wipe dry and lubricate ball joint with GIA. After fifing approximately 20,000 rounds lubricate lock knob with GIA.

6. REFLEX SIGHT XM70EL whenever dirt or dust accumulates on the sight, clean with SD and wipe dry. Monthly, lightly lubricate detent plunger and arms with PL-S. Avoid excessive amounts of lubrication to prevent attraction of foreign matter.

7. DO NOT LUBRICATE- Gun drive control assembly of gun electric drive assembly and resilient mount of housing and tube assembly.

8. DISASSEMBLED FOR LUBRICATION BY DIRECT AND GENERAL SUPPORT MAINTENANCE PERSONNEL- When disassembled for maintenance, clean and lubricate spur gear, spur gear-slip clutch, double enveloping elevation worm gear, gearsector and torque arm bearings of housing and tube assembly; all gearing and needle roller bearings in gear housing of gun electric drive assembiy; and rod ends and elevation control assembly cam of reflex sight XM70El with GIA.

9. INTERVAL D*- When interval symbol "D" is modified with an asterisk (D*) the equipment shall be cleaned and lubricated after each firing mission or at least daily, if active. During inactive periods, all lubrication indicated D* will be lubricated monthly(M) unless otherwise specified.

Copy of this lubrication order will remain with the equipment at al' times, instructions contained herein are mandatory.

By Order of the Secretary of the Army:

OFFICIAL:
KENNETH G. WICKHAM,
Major General, United States Army,
The Adjutant General

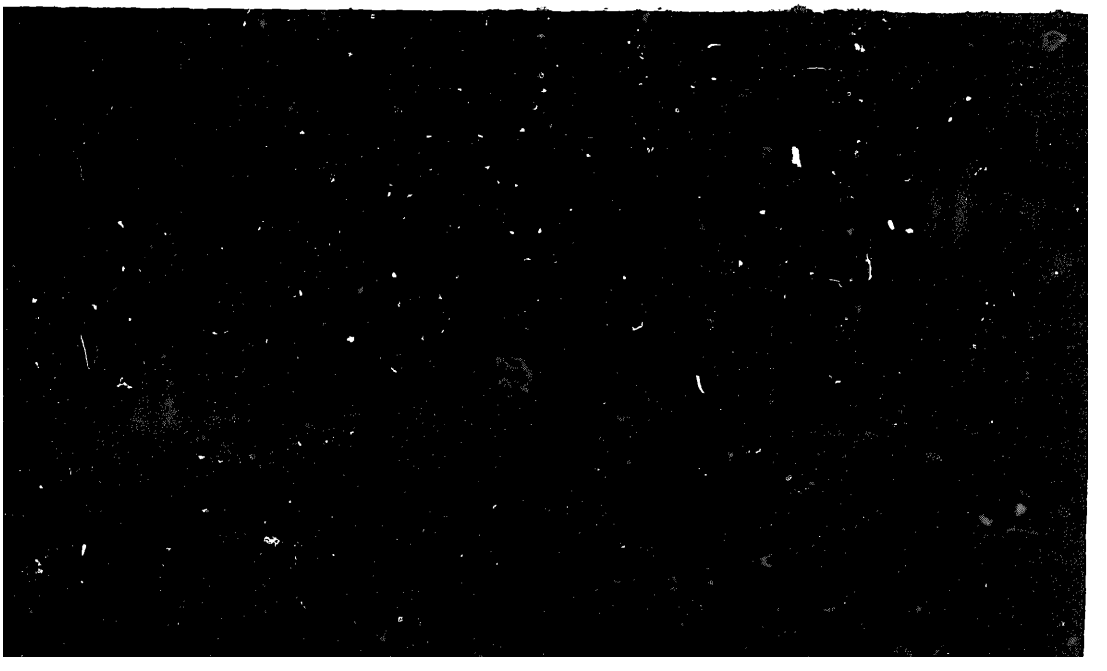
W. C. WESTMORELAND,
General, United States Army,
Chief of Staff.

LO3-1005-298-12 DISTRIBUTION to be distributed in ● accordance with DA Form 12 31 (qty rqr block no 127) Operator and Crew requirements for Armament Subsystem. Helicopter. 762 Millimeter Machine Gun, XM27E1

END

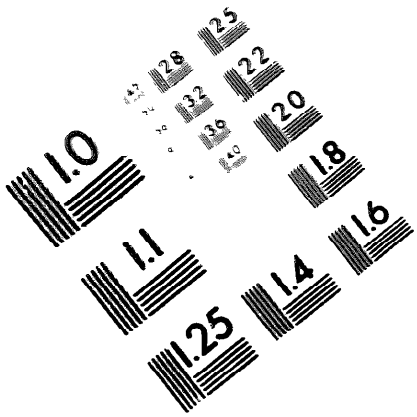
7-1483

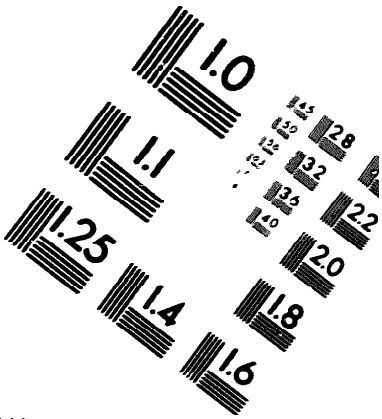
DATE



DEPARTMENT OF THE ARMY

MICROFORM
TEST TARGET





150 MM

1.5 mm (e= 1.09 mm)

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abcdefghijklmnopqrstuvwxyz
1234567890$¢£/%#½¼¾—=+×&@*

2.5 mm (e= 1.77 mm)

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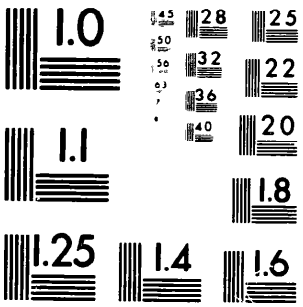

1.5 mm (e= 1.09 mm)

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2.0 mm (e= 1.37 mm)

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2.5 mm (e= 1.77 mm)

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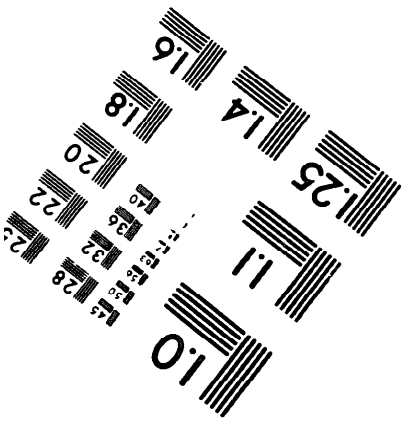
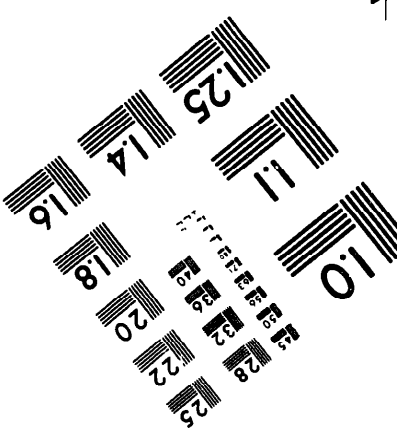
200 MM





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