LUBRICATION ORDER

LO 5-3610-286-12

20 January 1988

(Supersedes LO 5-3610-286-12, 6 January 1986)

TOPOGRAPHIC SUPPORT SYSTEM PRESS SECTION

PRINTING PRESS MODEL SOR

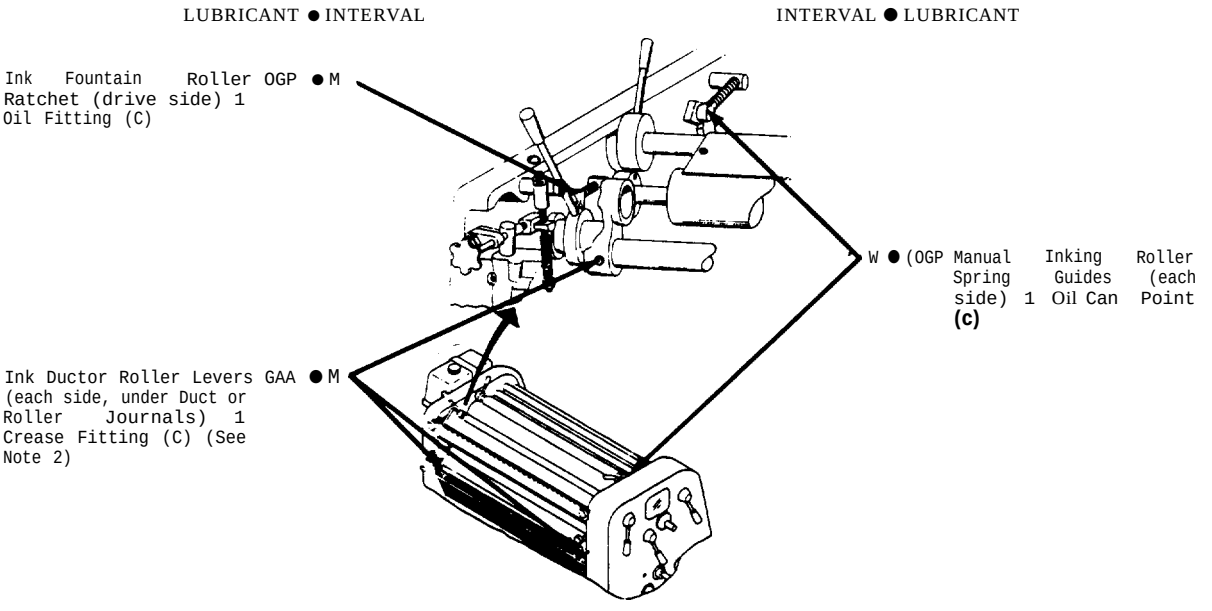
3610-01-214-1245 Approved for public release-
Reference TM 5-3610-286-10 TM 5-3610-286-20 Distribution is unlimited.

Intervals (on-condition or hard time) and the related work-hour times are based on normal operation. The work-hour time specified is the time you need to do all services prescribed for a particular interval. On-condition (OC) oil sample intervals shall be applied unless changed by the Army Oil Analysis Program (AOAP) laboratory. 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. Hard time intervals will be applied in the event AOAP laboratory support Is not available. Clean parts with dry cleaning solvent (SD), type II or equivalent. Dry before lubricating.

Dotted oil points indicate lubrication on both sides of equipment. Remove all excess oil or grease after lubrication. 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 improve this LO. 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 Troop Support Command, ATTN : AMSTR-MCTS, 4300 Goodfellow Boulevard, St. Louis, MO 63120-1798. A reply will be furnished to you.

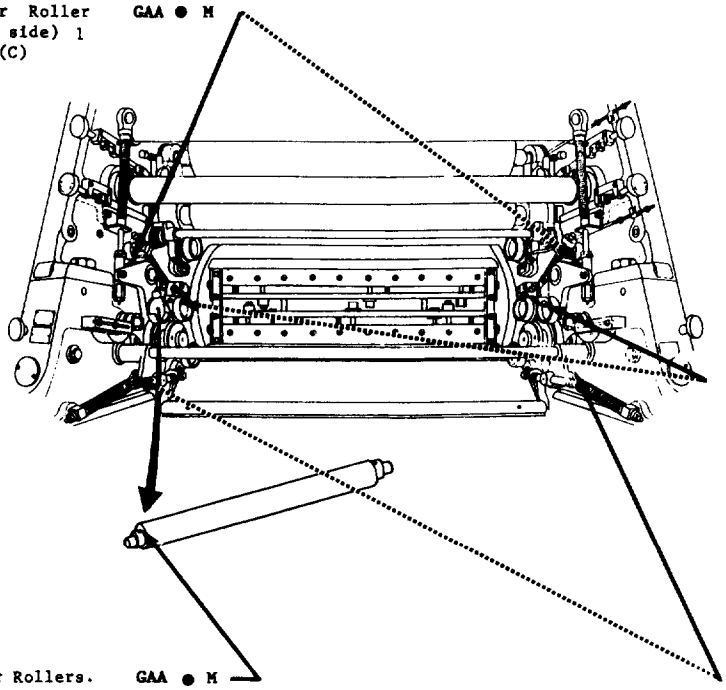
INKING ASSEMBLY



DAMPENING ASSEMBLY

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT



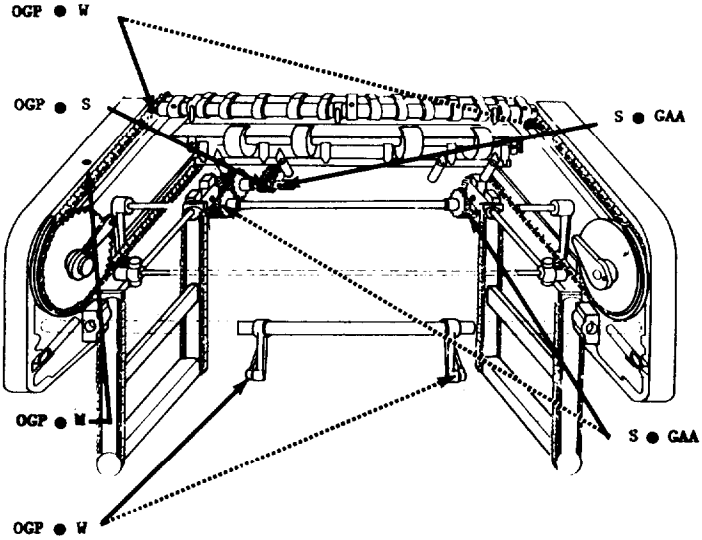
Dampening Ductor Roller Levers (each side) 1 Grease Nipple (C) — GAA ● M

M ● GAA — Upper Dampening Form Roller Lever (each side) 1 Grease Nipple (C)

Form and Ductor Rollers. Rollers Removed From Printing Press (each end of roller) 1 Grease Nipple (C) (See Note 1) — GAA ● M

W ● OGP — Throw-Off Spring Rods (each side), 1 Oil Can Point (C)

DELIVERY ASSEMBLY PART 1 OF 4



Two Chains, Open Lubrication (C) — OGP ● W

Pile Board Raise/Lower Main Drive Chain (drive side) Open Lubrication (C) — OGP ● S

S ● GAA — Pile Board Raise/Lower Main Drive Sprocket Bearing (drive side) 1 Grease Nipple (C)

Side Frame, top side (drive side) 1 Oil Fitting (C) — OGP ● M

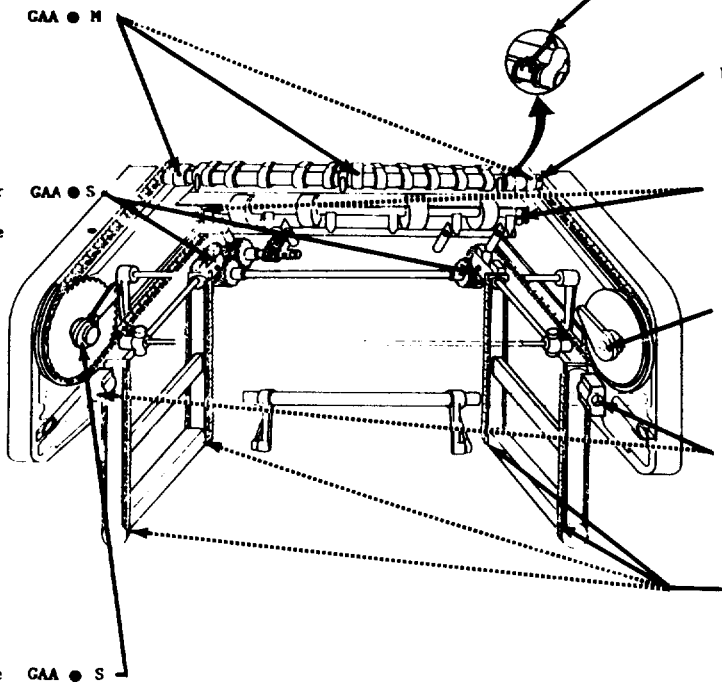
S ● GAA — Pile Board Raise/Lower Drive Gears (each side) Open Lubrication (C)

Sheet Catching Fingers Linkage, 2 Oil Can Points (C) — OGP ● W

DELIVERY ASSEMBLY PART 2 OF 4

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT



Gripper Bars (each bar) 3 Grease Nipples (C) — GAA ● M

Pile Board Raise/Lower Drive Shaft Bearing (each side) 1 Grease Nipple (C) — GAA ● S

Spray Powder Cam (drive side), 1 Grease Nipple (C) — GAA ● S

M ● OGP Gripper Bars Compression Springs (each bar) 3 Oil Can Points (C)

W ● GAA Master Gripper (each of three Gripper Bars, operator side) 1 Grease Nipple (C)

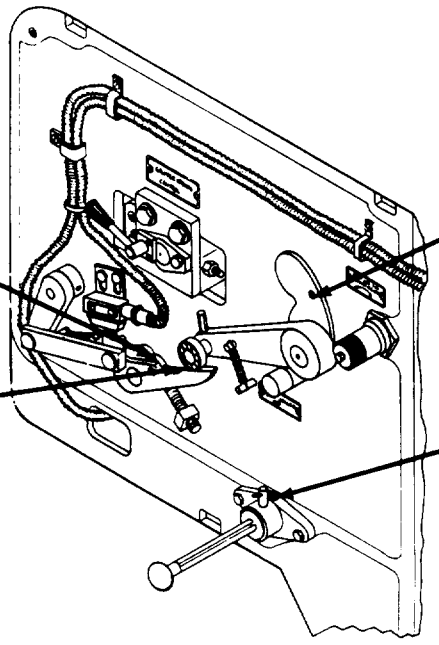
S ● OGP Suction Slow-Down Drum (each side) 1 Oil Fitting (C)

S ● GAA Gripper Opening Cam (operator side), 1 Grease Nipple (C)

S ● GAA Pile Board Raise Lower Drive Shaft (each side) Open Lubrication (C)

S ● OGP Pile Board Raise/Lower Chains (front and rear of delivery, 4 each) Open Lubrication (C)

DELIVERY ASSEMBLY PART 3 OF 4



Front Sheet Stop Shaft (operator side) 1 Oil Can Point (C) — OGP ● M

Jogger Cam Follower (operator side) Open Lubrication (C) — W

M ● OGP Jogger Connecting Shaft (operator side) 1 Oil Can Point (C)

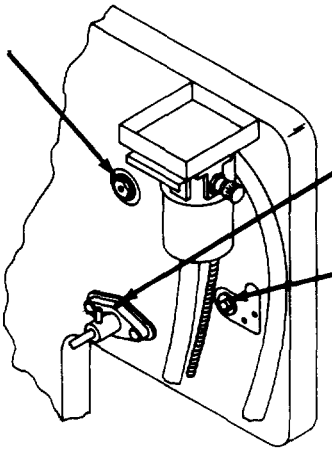
W ● OGP Side Sheet Jogger Arm (operator side) 1 Oil Can Point (C)

DELIVERY ASSEMBLY PART 4 OF 4

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT

Jogger Connecting Shaft (drive side), 1 Grease Nipple (C) — GAA ● M

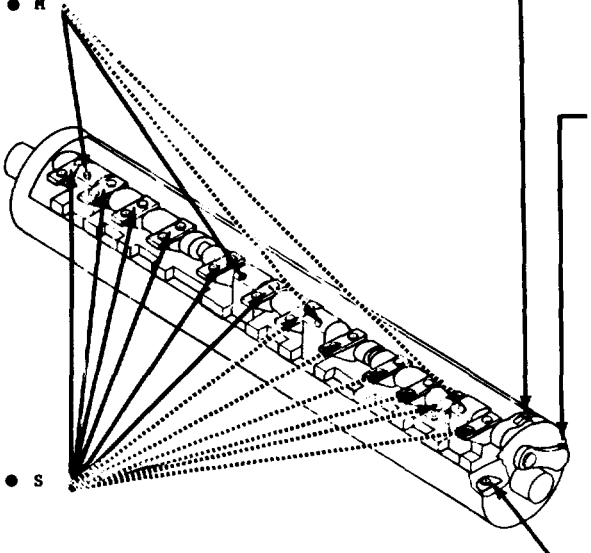


W ● OGF — Side Sheet Jogger Arm (drive side) 1 Oil Can Point (C)

M ● GAA — End Gate Shaft (drive side), 1 Grease Nipple (C)

IMPRESSION CYLINDER

Gripper Shaft, 4 Grease Nipples (C) — GAA ● M



M ● GAA — Gripper Cam Follower (drive side) 1 Grease Nipple (C)

W ● GAA — Gripper Opening Lever (drive side), 1 Grease Nipple (C) (See Note 3)

Grippers (12 each) 1 Oil Can Point each (C) — OGP ● S

M ● GAA — Gripper Shaft Cam Lever (drive side), 1 Grease Nipple (C)

REGISTER DRUM PART 1 OF 2

LUBRICANT ● INTERVAL

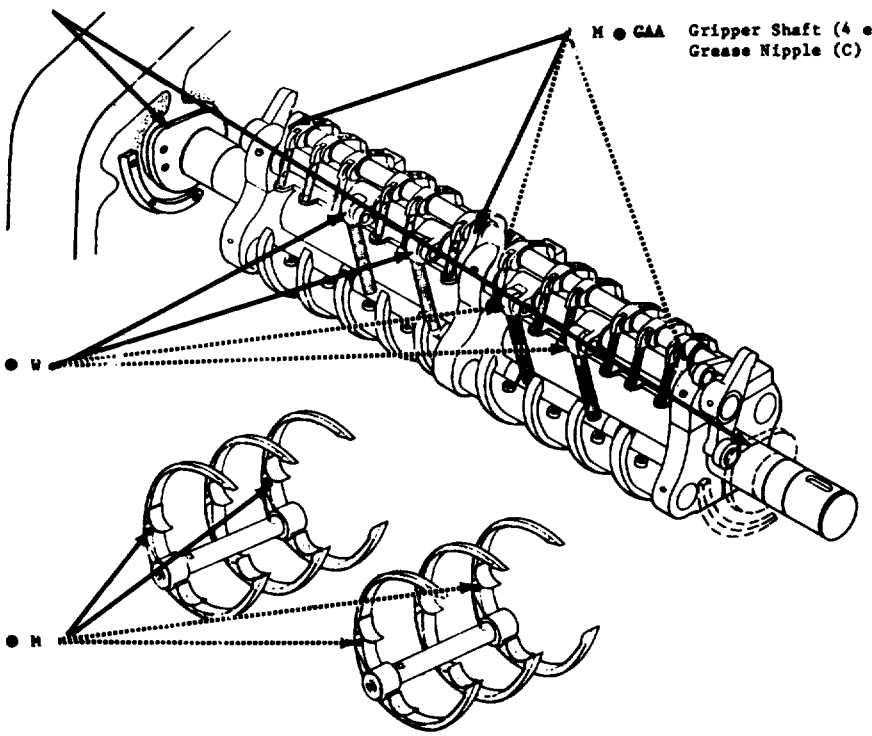
INTERVAL ● LUBRICANT

Swing Gripper Cams (each end) Open Lubrication (C) — GAA ● M

M ● GAA — Gripper Shaft (4 each) 1 Grease Nipple (C)

Gripper Compression Springs (4 each) 1 Oil Can Point (C) — OCP ● W

Sheet Guides (side of each of 4 sheet guides) 1 Grease Nipple (C) — GAA ● M

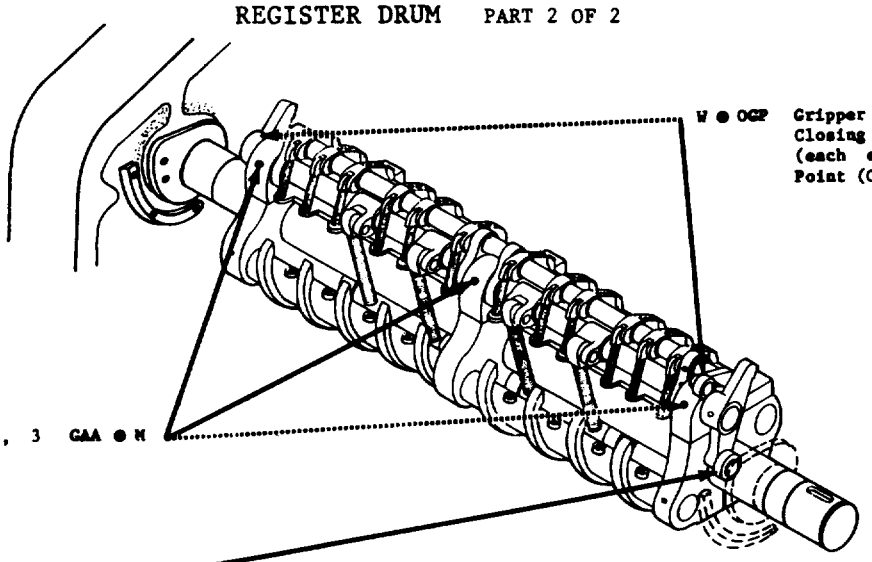


REGISTER DRUM PART 2 OF 2

W ● OCP — Gripper Opening and Closing Cam Follower (each end) 1 Oil Can Point (C)

Gripper Swing Shaft, 3 Grease Nipples (C) — GAA ● M

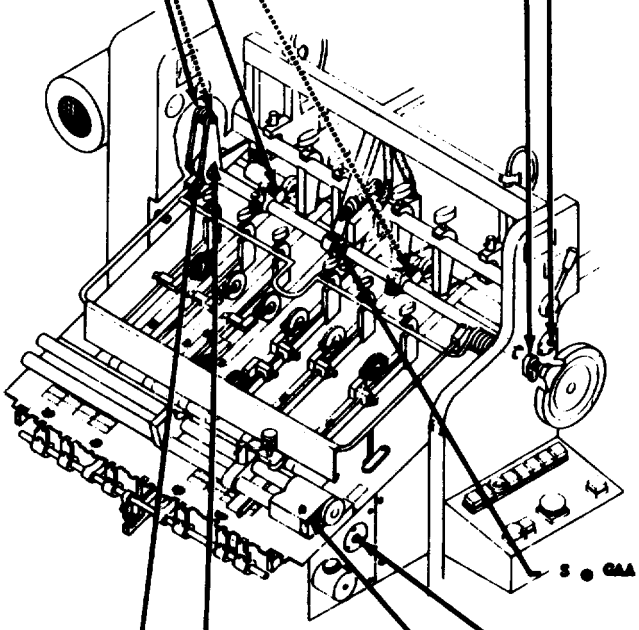
Swing Gripper Shaft Cam Follower Levers (each end of register drum) 1 Grease Nipple (C) — GAA ● W



FEEDER TABLE (TOP)

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT



Forwarding Rollers (2 each) 2 Oil Can Points (C) OGP ● M

Front Flap Air Blast Rod Cam Followers, 2 Oil Can Points (C) OGP ● M

Sheet Smoother Frame Bearing (each side) 1 Oil Can Point (C) OGP ● S

Forwarding Roller Shaft (each end) 1 Oil Can Point (C) OGP ● S

S ● OGP Handwheel, 1 Oil Can Point (C)

S ● GAA Tape Drive Roller Bearing, 1 Grease Nipple (C)

S ● GAA Forwarding Roller Shaft Center Bearing, 1 Grease Nipple (C)

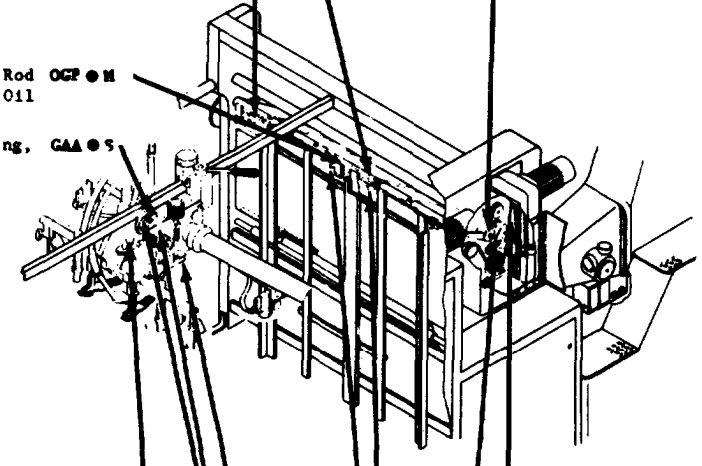
S ● GAA Side Guide Rail Cam Shaft, 1 Grease Nipple (C)

S ● GAA Side Guide Bearing, 1 Grease Nipple (C)

FEEDER

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT



Tape Guide Shafts (each of two shafts) 1 Oil Can Point (C) — OGP ● S

Front Flap Air Blast Rod Center Bearing, 1 Oil Can Point (C) — OGP ● M

Suction Head Bearing, 1 Grease Nipple (C) — GAA ● S

Suction Head Plunger, 1 Oil Can Point (C) — OGP ● S

Suction Head Operating Cams, Open Lubrication (C) — OGP ● S

Forwarding Sucker Cams Open Lubrication (C) — OGP ● M

S ● GAA Forwarding Roller Shaft, 1 Grease Nipple (C)

M ● OGP Timing Chain, Open Lubrication (C)

M ● OGP Timing Chain Cam Follower, Open Lubrication (C)

S ● OGP Lower Double Sheet Detector Roller Drive Shaft (each side) 1 Oil Can Point (C)

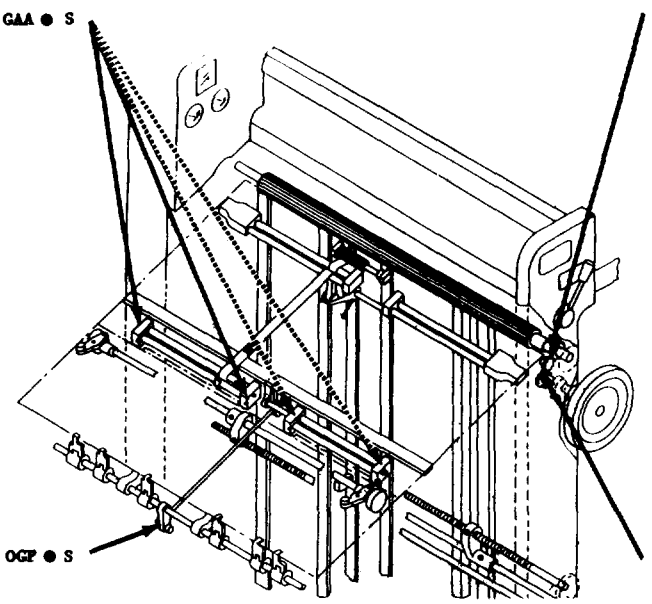
FEEDER TABLE (UNDERNEATH) PART 1 OF 2

LUBRICANT ● INTERVAL

INTERVAL ● LUBRICANT

Tape Guide Shafts, 4 Shafts (each end) 1 Grease Nipple (C) — GAA ● S

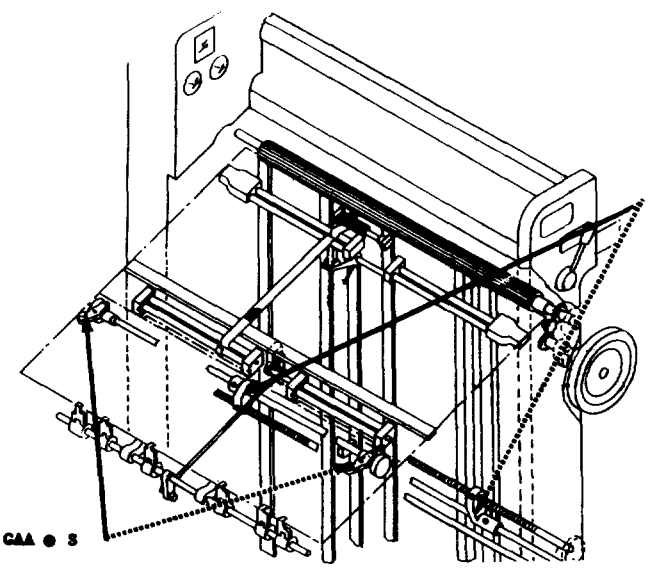
S ● GAA — Tape Drive Roller Gears, Open Lubrication (C)



Front Lay Drive Rod Heads (each end) 1 Oil Can Point (C) — OGP ● S

S ● OGP — Handwheel Gears, 1 Oil Can Point (C)

TABLE (UNDERNEATH) PART 2 OF 2

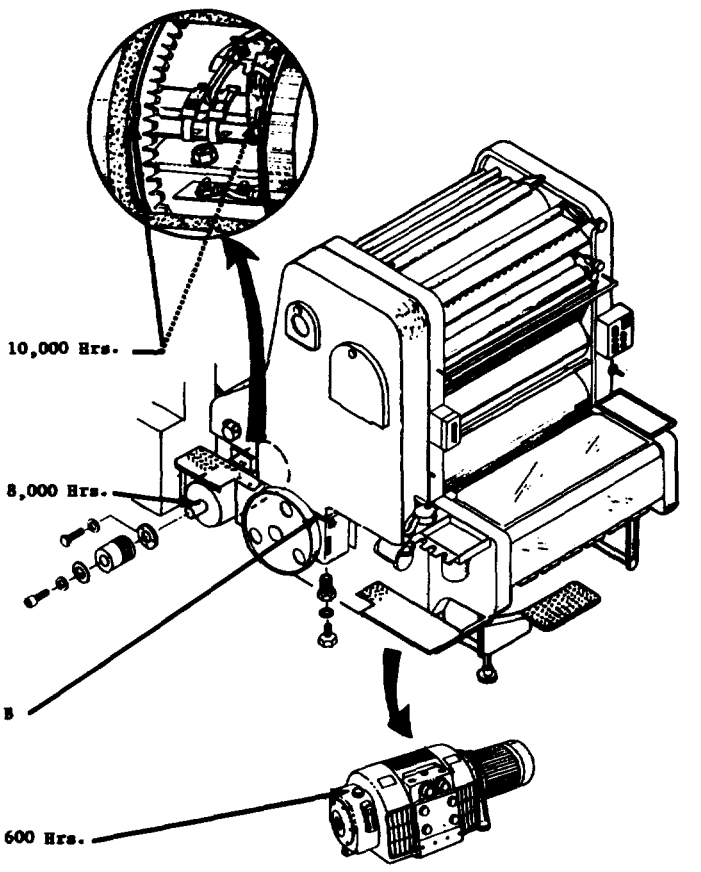


S ● GAA — Side Standards, (each side) 2 Grease Nipples (C)

Side Guide Operating Cams and Cam Followers (1 cam and 1 follower each side) Open Lubrication (C) — GAA ● S

COMPRESSORS, MOTORS AND OIL (GEARBOX) RESERVOIR

	Lubricant	Interval
Adjustment Motor Roller Bearings. (O)	GAA	10,000 Hrs.
External Ventilator Bearings. Clean and Repack. (O)	GAA	8,000 Hrs.
Gearbox Oil Reservoir (O) (See Note 5)	OE/HDO-30	B
Compressor (O) (See Note 4)	OE/HDO-30	600 Hrs.



TOTAL WORK-HR		TOTAL WORK-HR	
INTERVAL	WORK-HR	INTERVAL	WORK-HR
Q	4.0	D	1.0
S	3.0	W	0.5
A	2.0	M	1.0
B	1.0	600 HOURS	0.5
		8,000 HOURS	0.7
		10,000 HOURS	0.3

LUBRICANTS		EXPECTED TEMPERATURES	INTERVALS
OE/HDO 30 (MIL-L-2104)	- LUBRICATING OIL, GENERAL PURPOSE, LOW TEMPERATURE - ENCASED GEARS OIL BATH - CENTRAL LUBRICATION AND ALL OTHER PARTS OF LUBRICATION	All Temperatures	D DAILY W WEEKLY M MONTHLY Q QUARTERLY S SEMI-ANNUALLY A ANNUALLY B BIENNIALLY
GAA (MIL-G-10924)	- GREASE, MULTIPURPOSE - ANTIFRICTION BEARINGS		
OGP-10 (VV-L-820)	- LIGHT MACHINE OIL - CHAINS		
OGP-80 (MIL-L-26087B)	- SPECIAL OIL - COMPRESSOR		

NOTES:

1. Each time dampening form rollers or dampening ductor roller are removed for cleaning, bearing on roller ends must be wiped dry and greased with GAA lubricant to flush out any water. This is in addition to scheduled lubrication.

2. Remove distributor roller #7 for easy access to grease nipples for ink ductor roller levers.

3. Impression cylinder gripper opening lever must be lubricated from delivery end of press, drive side.

4. The first oil change must be done after 200 working hours. Further changes are to be done at intervals of 600 working hours. Capacity 2 quarts. Applicable only to Models CL60DVV.

5. Change the oil in the gearbox one year after press installation; thereafter, change every two years. Capacity 20 quarts.

By Order of the Secretary of the Army:

CARL E. VUONO
General, United States Army
Chief of Staff

Official:

R. L. DILWORTH
Brigadier General, United States Army
The Adjutant General

DISTRIBUTION:
To be distributed in accordance with DA Form 12-25A, Operator and Unit Maintenance Requirements for Paper Conditioning Section, Topographic Support System, Model ADC-TSS-15.

☆U.S. GOVERNMENT PRINTING OFFICE: 1988-201-419/80309