1. GENERAL

1.01 This section is issued to include complete lubrication procedures for the tape printer unit (stock ticker).

1.02 This section provides lubrication information for the tape printer unit (stock ticker). General areas of the equipment are illustrated photographically. Specific points to receive lubricant are indicated by line drawings and descriptive text. Symbols in the text indicate the following directions:

- O Apply one drop of oil.
- O2 Apply two drops of oil.
- O3 Apply three drops of oil.
- G Apply thin coat of grease.
- SAT Saturate with oil (felt washers, wicks, etc).

KS7470 oil and KS7471 grease should be used.

1.03 The equipment should be thoroughly lubricated, but over-lubrication which might allow oil to drop or grease to be thrown on other parts should be avoided.

1.04 The following general instructions supplement the specific lubricating points illustrated on subsequent pages:

- Apply one drop of oil to all spring hooks.
- Apply a light film of oil to all cam surfaces.
- Apply a thick coat of grease to all gears.
- Apply oil to all pivot points.
- Apply oil to all sliding surfaces.
- Saturate all felt washers, oilers, etc, with oil.

1.05 Keep all surfaces between magnet pole pieces and armature free from oil. To remove any oil or foreign material that may be present and insure better operation, pull a piece of paper between the armature and pole pieces (energize the magnet). Make certain that no lint or pieces of paper remain between the pole pieces and armature.

1.06 Lubricate tape printer unit before storing or placing it in service. After 100 hours of operation, freely relubricate to make certain that all points receive ample lubrication. Readjust unit. (For instructions, see the applicable tape printer adjustment section.) Thereafter, relubricate every 500 hours of operation, or every three months, whichever comes first.
2. LUBRICATION

2.01 Tape Printer Unit (Stock Ticker)
2.02 Main Shaft

Drive Shaft (Inside Casting)

2.03 Main Shaft (continued)

Gears (3)

Function Clutch Cam
Codebar Clutch Cams
Left Frame Main Shaft Bearing
Right Frame Main Shaft Bearing
Eccentric

2.04 Clutch Mechanisms (Selector, Codebar, Function and Typebox Positioning Clutches)

Shoe Lever Springs
Shoe Spring
Clutch Mechanism
Clutch Disc
2.05 Selector Mechanism

- Slots (6) Push Lever Bearing Guide
- Tip Armature Extension
- Engaging Surfaces Push Levers (6)
- Engaging Surfaces Marking Locklever
- Slots (9) Selector Lever Bearing Guide

2.06 Selector Levers and Push Levers

- Hooks - Each End Push Lever and Reset Bail Springs (7)
- Engaging Surfaces Push Levers and Reset Bail Guide
- Slots Selector, Locklever, and Start Lever Springs (8)
- Hooks - Each End

2.07 Selector Cam Lubricator

- Fill Reservoir Cam Lubricator
- Hook - Each End Marking Locklever Spring
2.08 Selector Cams

![Diagram of Selector Cams]

- O Camming Surfaces
- Selector Cams
- O Oil Holes (2)
- Cam Sleeve

2.09 Range Finder

![Diagram of Range Finder]

- G Teeth
- Rack and Knob
- O Bearing Surfaces
- Trip Lever
- O Hook - Each End
- Spring
2.10 Transfer Lever Mechanism

- Intermediate Lever Bearing Guide
- Intermediate Lever Guide
- Transfer Lever Bearing Guide
- Transfer Levers and Shiftbars
- Transfer Lever Springs (6)
- Transfer Levers and Intermediate Levers

2.11 Codebar Shift Mechanism

- Bearing Surfaces
- Oil Hole
- Slots
- Rollers (2)
- Engaging Surfaces
- Shift Levers
- Shaft
- Bracket
- Roller Guides (2)
- Scissors Mechanism
- Shift Levers and Bars
- Shift Lever Drive Slots
- Drive Arm
- SAT
- Felt Washers
2.12 Codebar Clutch Trip Lever

2.13 Codebar Clutch Trip Mechanism

2.14 Codebar Mechanism

2.15 Codebar Detents
2.16 Codebar Extensions

- Engaging Surfaces
- Roller
- Bearing Surfaces

Codebar Extensions (No. 1, 2, 3, 4, and 5 Codebars)
No. 6 Codebar Extension
Codebars and Shift Bars

2.17 Function Clutch Trip Mechanism

- Engaging Surface
- SAT Felt Washer
- Pivots
- SAT Felt Washer

Trip Lever
Trip Shaft
Trip Shaft and Cam Follower
Latchlever
Spring
Cam Follower Roller
2.18 Function Cam Follower

- Bearing
- Function Shaft
- SAT Felt Washer
- Function Cam Follower Roller
- SAT Felt Washer
- Ribbon-Paper Feed Cam Follower Roller
- O Pivot
- Function Cam Follower
- O Hooks - Each End
- Springs

2.19 Tape Feed Mechanism

- O Engaging Surface
- Feed Pawl
- O Teeth
- Feed Ratchet
- O Engaging Surface
- Detent
- SAT Felt Washers (3)
- Drive Arms
- G Bearing Surface
- Shaft Bearing
- O Shaft
- Feed Wheel
- O Pivot
- Pressure Roller Arm
- O Hooks - Each End
- Springs (2)
- SAT Felt Washers
- Drive Shaft Bearings (2)
- SAT Felt Washers
- Drive Arm Pivots (2)
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2.20 Ribbon Feed Mechanism

- Pivots (2)
- Hooks - Each End
- Engaging Surfaces
- Pivot
- Sliding Surfaces
- Shafts (2)
- Reversing Arm Link
- Springs
- Reversing Lever Retaining Pawl
- Reversing Arm
- Feed Pawl
- Drive Slide
- Ribbon Ratchets

2.21 Double Print Hammer

- SAT Felt Washers (2)
- Contact Surfaces
- Latch Surfaces
- Hooks - Each End
- Pin Head
- Inside Hole
- Seat
- Sliding Surfaces
- SAT Felt Washers
- Plunger Retaining Pin
- Plunger Guides (2)
- Spring Anchor Pin
- Print Hammer
- Drive Link Pivots
2.22 No. 6 Codebar Linkage

- Engaging Surfaces
- Selector Lever Fork
- Felt Washer
- Selector Lever Pivot
- Hook - Each End
- Spring
- SAT Felt Washer
- Slide Guide Pivot

2.23 Print Hammer Shift Mechanism

- Cam Surfaces
- Accelerator Lever Cam
- Felt Washers
- Inside Drive Block
- Roller
- Detent
- SAT Felt Washers
- Detent Lever
- Engaging Surface
- Selector Slide Guide Tee
- Engaging Surfaces
- Selector Slide Guide

2.24 Typebox

- Bearing Surface
- Aggregate Motion Positioning Link
- Hook - Each End
- Spring
- Rollers (2)
- Typebox Rail
- Latching Surface
- Locking Latch

Note: Rebuilt typeboxes must be dipped in KS7470 oil and all excess oil drained off before use.

CAUTION: AVOID OVER-OILING WHICH MIGHT PERMIT DRIPPING LUBRICANT TO CONTAMINATE THE TAPE CHUTE OR IMPREGNATE THE TAPE OR RIBBON.
2.25 Typebox Positioning Mechanism

- Bearing Balls
- Teeth
- Engaging Surfaces
- Pivot
- Felt Washer
- Engaging Surface
- Operating Lever
- Drive Arm Pivot
- Drive Arm
- Racks and Pinions (2)
- Clutch Trip Mechanisms
- Cross Shaft Bearings

SAT

- Bearing Surface
- Pivot
- Rack Guides
- Sliding Surfaces
- Clutch Stop Slide

2.26 Transverse Positioning Mechanism

- Teeth
- Internal Mechanism
- Hooks - Each End
- Sliding Surfaces
- Sliding Surfaces
- Bearings
- Gears (9)
- Thrust Bearing
- Springs (6)
- Trip Slides (4)
- Aggregate Motion
- Link Pivots and
- Oilite Bearing
- Guide Blocks (2)
- Eccentric
- Camming Surfaces
- Engaging Surfaces
- and Pivots
- Trip Levers (4)

CAUTION: DO NOT WASH UNIT IN DEGREASER, AS THIS WILL DESTROY LUBRICATION OF BEARINGS.