KEYBOARD TAPE PUNCH AND KEYBOARD TYPING TAPE PUNCH

LUBRICATION

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O Apply one drop of oil.
O2 Apply two drops of oil.
O3 Apply three drops of oil, etc.
G Apply thin coat of grease.

SAT Saturate with oil. (Felt washers, etc.)

KS7470 oil and KS7471 grease should be used.

1.02 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.

1.03 The following general instructions supplement the specific 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.
Saturate all felt washers, oilers, etc.
Apply oil to all pivot points.
Apply oil to all sliding surfaces.

1.04 All equipment should be lubricated before being placed in service or prior to storage. After a few weeks of service, re lubricate to make certain that all specified points have received lubricant. Thereafter, the following schedule should be followed:

<table>
<thead>
<tr>
<th>Operating Speed</th>
<th>Lubrication Interval</th>
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<tr>
<td>100 W.P.M.</td>
<td>1500 hours or 6 months*</td>
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</table>

*Whichever occurs first.

1.05 Lubrication instructions, which pertain to the typing mechanism, are only applicable to the Keyboard Typing Tape Punch. All of the other lubrication points apply to the Keyboard Tape Punch and the Keyboard Typing Tape Punch.
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2. LUBRICATION

2.01 Keyboard Typing Tape Punch

2.02 Ribbon Feed Mechanism (Typing Tape Punch Only)
2.03 Ribbon Feed Mechanism (continued) (Typing Tape Punch Only)

- HOOKS (2)
- TEETH
- SHAFT
- ROLLERS (2)
- RATCHET WHEEL
- WASHERS
- PIVOT
- DETENT
- CONTACTING SURFACES
- SLIDE LEVER
- DRIVE ARM

2.04 Perforator Mechanism

- PIVOT POINT
- TAPE SHOE
- RESET SURFACE ROLLER
- PIVOT POINT
- PIVOT POINTS (4) (FELT WASHERS)
- PIVOT POINTS (2) (FELT WASHERS)
- PIVOT POINTS (2) (FELT WASHERS)
- PIVOT POINTS (2) PUNCH DRIVE LINK
- PUNCH DRIVE LINK SPRING
- RESET BAIL
- DETENT LEVER
- DETENT LEVER
- FRONT AND REAR TOGGLE LINK
- TOGGLE BAIL
- TOGGLE BAIL
2.05 Perforator Mechanism (continued)

2.06 Punch Mechanism
2.07 Feed Mechanism

- RATCHET TEETH FEED WHEEL
- PIVOT POINT (FELT WASHER) FEED WHEEL
- PIVOT POINT (FELT WASHER) DIE WHEEL

- PIVOT POINTS (2) HANDWHEEL BEARING

2.08 Rotary Positioning Mechanism (Typing Tape Punch Only)

- TEETH ROTARY OUTPUT RACK
- OIL HOLE TYPE WHEEL HOUSING
- SPECIAL TEETH ROTARY OUTPUT RACK
- PIVOT POINT ROTARY CORRECTING LEVER
- PIVOT POINT ROTARY CORRECTING LEVER SHAFT
- PIVOT POINTS (2) CONNECTING RODS
- OIL HOLE SPECIAL TEETH DETENT LEVERS (8)
- PIVOT POINT CROSS LINKS (FELT WASHERS)
- PIVOT POINTS (FELT WASHERS) SPRINGS (4)
- PIVOT POINTS (FELT WASHERS) DETENT LEVERS (8)
- CROSS LINKS ROTARY OUTPUT RACK

- SLIDING SURFACE
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2.09 Main Shaft Mechanism

- O6 FUNCTION CAM NEEDLE BEARING SLEEVE (3)
- O2 BEARING
- BOTH ENDS OF SLEEVE AND OIL HOLE IN SLEEVE MAIN SHAFT

- O2 ROLLER PIVOT
- O6 BEARING
- G TEETH

- FUNCTION CAM
- MAIN SHAFT DRIVEN GEAR (IF UNIT IS SO EQUIPPED)

2.10 Transfer Mechanism (Typing Tape Punch Only)

- PIVOT POINTS (5)
- PULSE BEAMS
- CONTACT SURFACES (5)
- TRANSFER LEVERS
- CONTACT POINTS (5)
- PULSE BEAMS (EACH END)
- HOOKS - EACH END
- SPRING
- PIVOT POINTS (5)
- TRANSFER LEVERS
- SLIDING SURFACES (5)
- GUIDE BRACKET (EACH SIDE)
2.11 Push Bars (Typing Tape Punch Only)
2.12 Keyboard Typing Tape Punch (Side View)
2.13 Function Box (Typing Tape Punch Only)
2.14 Axial Positioning Mechanism (Typing Tape Punch Only)

- SLIDING GUIDE SURFACES
- CORRECTING DRIVE LINK
- HOOKS - EACH END
- SPRING
- PIVOT POINT
- AXIAL OUTPUT RACK
- CONTACT POINTS
- ROTARY CORRECTING CLAMP
- PIVOT POINT
- ROTARY CORRECTING LEVER SHAFT
- CONTACT SURFACE
- AXIAL CORRECTING PLATE
- AXIAL SECTOR TYPEWHEEL SHAFT
- TEETH
- AXIAL CORRECTING PLATE ROLLER
- PIVOT POINT
- AXIAL SECTOR
- PIVOT POINT (FELT WASHER)
- GUIDE ROLLER
- OSCILLATING DRIVE BAIL
- PIVOT POINT (FELT WASHER)
- AXIAL SECTOR
- AXIAL OUTPUT RACK
- TEETH

(REAR VIEW)
2.15 Axial Positioning Mechanism (continued) (Typing Tape Punch Only)

(LEFT SIDE VIEW)

2.16 Detent Assemblies (Typing Tape Punch Only)
2.17 Printing Mechanism (Typing Tape Punch Only)

G CONTACT SURFACE  PRINTING LATCH
O2 SLIDING SURFACE  PRINTING TRIP LINK
O2 PIVOT POINT  PRINTING LATCH
O2 PIVOT POINTS  PRINT HAMMER
O HOOKS - EACH END  PRINT HAMMER SPRING
O HOOKS - EACH END  HAMMER ACCELERATOR SPRING
O HOOKS - EACH END  PRINTING LATCH SPRING
O PIVOT POINT  PRINTING DRIVE LINK
O HOOKS - EACH END  PRINTING TRIP LINK SPRING
O PIVOT POINT  PRINTING DRIVE LINK
O PIVOT POINTS (2)  PRINTING PIVOT ARM

2.18 Rocker Bail Mechanism

G CONTACT SURFACE  RIBBON FEED ECCENTRIC STUD
O PIVOT POINTS  PUSH BAR OPERATING BLADE
SAT SLIDING SURFACE  PUSH BAR OPERATING BLADE
(FELT WASHER UNDER BLADE)
G PIVOT POINT  CORRECTING DRIVE LINK
O PIVOT POINT  OSCILLATING DRIVE LINK
O ROLLER SURFACE  CAM FOLLOWER ROLLER (UPPER AND LOWER)
O PIVOT POINTS  CAM FOLLOWER ROLLERS
O PIVOT POINT  PRINTING DRIVE LINK
SAT PIVOT POINT (FELT STRIP)  ROCKER BAIL
O ROLLER SURFACE  CAM FOLLOWER ROLLER
O CONTACT SURFACE  FUNCTION CAM
2.19 Function Cam-Clutch Trip Mechanism

CONTACT POINTS (2) MAIN TRIP LEVER
HOOKS - EACH END CLUTCH RELEASE SPRING
CONTACT SURFACE CLUTCH RELEASE SPRING
RESET LEVER
RESET LEVER
FELT WASHERS CLUTCH TRIP SHAFT
SAT LATCH LEVER SPRING
CONTACT SURFACE CLUTCH STOP LUG

CONTACT SURFACE FOLLOWER LEVER SPRING
HOOKS - EACH END TRIP CAM FOLLOWER LEVER
PIVOT POINT TRIP CAM FOLLOWER LEVER
CONTACT SURFACE MAIN TRIP LEVER
CONTACT POINT MAIN TRIP LEVER SPRING
CONTACT POINT MAIN TRIP LEVER
HOOKS - EACH END MAIN TRIP LEVER
PIVOT POINT MAIN TRIP LEVER
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2.20 Rest Keyboard Bottom Side Up

2.21 Space Bar Mechanism

0 BEARING SURFACE (LEFT & RIGHT) SPACE BAR

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2.22 Keylever Mechanism

2.23 Code Lever Mechanism

2.24 Code Bar Mechanism
2.25 Return Mechanism

2.26 Non-Repeat Lever Mechanism
2.27 Motor Unit

NOTE: DO NOT LUBRICATE SPROCKETS.

*APPLY OIL EVERY FOUR MONTHS. IF MOTOR IS DISASSEMBLED AT ANY TIME- REPACK BEARINGS WITH GREASE (BEACON 325) (TELETYPE 195298) OR ITS EQUIVALENT.

2.28 Code Bar Bail Mechanism
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2.29 Universal Bail Latch Lever

2.30 Code Lever Universal Bail Mechanism

2.31 Lock Bar Latch Mechanism
2.32 Power Drive Backspace Mechanism

2.33 Character Counter Mechanism
2.34 Character Counter Mechanism

CONTACT SURFACE
BEARING SURFACE
BEARING SURFACE
TEETH
ENGAGING SURFACES (2 PLACES)
HOOKS-EACH END (3 SPRINGS)
BEARING SURFACE
BEARING SURFACE
ENGAGING SURFACES (3 SURFACES)

ANTI-BOUNCE LATCH
ANTI-BOUNCE LATCH
RATCHET DRUM
RATCHET
RESET LEVER EXTENSION
SPRING
RESET BAIL
DRIVE LEVER FEED BAIL
DRIVE LEVER FEED BAIL & RESET BAIL