1. GENERAL

1.01 This section is reissued to revise lubrication instructions for the tape guide plate assembly and to change the title.

1.02 This section contains specific lubrication procedures for type 1A, 2A, and 2A special tape readers; and their associated motors and gears. Unless otherwise specified herein, the general routines for maintaining this apparatus, the tools and materials to be used, and their method of application are the same as those shown in the sections giving general maintenance information for teletypewriter apparatus.

1.03 The amount and type of lubricant to be used is denoted by a symbol which is defined in the following list:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Lubrication</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Apply one drop of oil</td>
</tr>
<tr>
<td>O2</td>
<td>Apply two drops of oil</td>
</tr>
<tr>
<td>SAT</td>
<td>Saturate with oil</td>
</tr>
<tr>
<td>M</td>
<td>Apply a light film of grease</td>
</tr>
<tr>
<td>MH</td>
<td>Apply a medium to heavy film of grease</td>
</tr>
</tbody>
</table>

1.04 The apparatus should be lubricated before being placed in service, as specified in the section entitled Preparation of Teletypewriter Apparatus for Installation. After a few weeks in service, it should be relubricated to make certain that all specified points have lubricant. Since the operating conditions may vary at each station, the apparatus should be lubricated as often as specified by local conditions. However, it is suggested that under normal operating conditions, the unit should be lubricated at least every 250 hours or 6 weeks.

1.05 The following Bell System Practice provides additional information that may be required in connection with this section.

SUBJECT  SECTION

Numerical Index - Division 592,  
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1.06 The motor ball bearings are packed with low temperature lubricant by the manufacturer and should require attention only at infrequent intervals. The bearings should be lubricated with two drops of oil in the oiler at each end of the shaft.
2. LUBRICATION

2.01 Tape Reader, Front View.
2.02 Tape Lid Mechanism.

- PIVOT POINT
- HOOKS - EACH END TAPE LID SPRING
- WEAR PLATE EDGE

2.03 Cover Plate Plunger Mechanism.

- SLIDING SURFACE PLUNGER
- HOOKS - EACH END PLUNGER SPRING
2.04 Operation Control Mechanism.

M PLUNGER (2) COVER PLATE
M CONTACT SURFACE SWINGER TIP
O HOOKS - EACH END TAPE-OUT ARM SPRING
O PIVOT POINT CONTROL LEVER

M CONTACT SURFACE START-STOP LEVER

O PIVOT POINT TAPE-OUT ARM
O PIVOT POINT START-STOP LEVER
O PIVOT POINT INTERMEDIATE LEVER
M CONTACT SURFACE START-STOP LEVER
O PIVOT POINT DETENT LEVER
O PIVOT POINT INTERMEDIATE LEVER
M CONTACT POINT TAPE-OUT STOP ARM

O PIVOT POINT (2) TAPE-OUT EXTENSION
O SPRING TAPE-OUT PIN
M CONTACT SURFACE SWINGER TIP
SAT FELT WICK DETENT SPRING
O HOOKS - EACH END CONTROL LEVER SPRING
M CONTACT SURFACE CONTROL LEVER

(VIEWED FROM FRONT)

2.05 Feed Mechanism.

SAT FELT WICK DETENT LEVER SPRING
O PIVOT POINT DETENT LEVER
MH CONTACT POINT INERTIA STOP LEVER
MH CONTACT POINTS FEED RATCHET TEETH
O PIVOT POINT INERTIA STOP LEVER

SAT FELT WICK INERTIA STOP LEVER SPRING
O ROLLER DETENT LEVER
O PIVOT POINT FEED PAWL
O PIVOT POINT INERTIA STOP LEVER

SAT FELT WICK FEED PAWL SPRING

(VIEWED FROM FRONT)
2.06 Sensing Mechanism.

NOTE
EXERCISE CARE TO PREVENT LUBRICANT FROM FINDING ITS WAY TO CONTACT POINTS

- M CONTACT SURFACE SWINGER TIP (7)
- M SLIDING SURFACES (7) ACTUATOR BARS
- M SLOT (7) ACTUATOR BAR BRACKET
- SAT FELT WICKS ACTUATOR BAR SPRINGS
- MH SLIDING SURFACES (7) ACTUATOR BARS
- MH SLOT (7) ACTUATOR BAR BRACKET
- MH CONTACT SURFACE (7) ACTUATOR BARS
- MH SLOT (7) TRANSFER LEVER GUIDE POST
- MH PIVOT POINT (7) TRANSFER LEVERS
- SAT FELT WICK SENSING FINGER SPRINGS (7)
- O PIVOT POINT FEED RATCHET SHAFT
- M CONTACT POINTS FEED RATCHET TEETH
- M SLOT (5) SENSING FINGER GUIDE POST
- M PIVOT POINT SENSING FINGERS (5)
- M CONTACT POINT SENSING FINGERS (5)
- M PIVOT POINT (7) TRANSFER LEVERS
- M SLOT (7) TRANSFER LEVER GUIDE POST
- O2 OIL HOLE FEED AND SENSING BAIL POST
- O HOOKS - EACH END TAPE LID LATCH SPRING
- O SLIDING SURFACE TAPE LID LATCH
- O PIVOT POINT FEED RATCHET SHAFT

2.07 Tape Reader, Front View.

2.08
2.08 Latching Mechanism.

- Pivot point
- Armature hinge
- SAT felt wick armature spring
- SAT felt wick cam follower spring (2)
- MH contact point (2) blocking lever
- Pivot point cam follower roller (2)
- Contact point cam follower roller (2)
- Hooks - each end blocking lever spring

2.09 Motor and Main Shaft Assembly.

- M contact points, pinion gear teeth
- M contact points, driven gear teeth
- Pivot point bearings (2)
2.10 Universal Tape Reading Mechanism.

- M CONTACTING SURFACE CODE LEVER
- O PIVOT CODE LEVER
- M SURFACE CODE LEVER CAM
- O HOOKS - EACH END CODE LEVER SPRING

- O PIVOT DETENT LEVER
- M SURFACE DETENT
- O HOOK - EACH END DETENT LEVER SPRING