BELL SYSTEM PRACTICES
Teletypewriter and Data Stations

SECTION P34.602
Teletypewriter and Data Stations

28C TRANSMITTER-DISTRIBUTOR UNIT
LUBRICATION

CONTENTS

1. GENERAL
2. PARTS TO BE LUBRICATED
3. REFERENCE TO BELL SYSTEM PRACTICES

PAR. NO.
1.01-1.06
2.01-2.15
3.01

1. GENERAL

1.01 This section contains the lubrication procedures for the maintenance of the 28C transmitter-distributor unit, which uses a pivoted sensing-head.

1.02 Lubrication of the unit before it is placed in service should be governed by the principles given in Section P33.014. After that, because of varying conditions at each station, the unit should be lubricated as often as specified by local instructions.

1.03 The following recommended lubrication intervals are included as a guide for use under normal operating conditions.

<table>
<thead>
<tr>
<th>Operating Speed (Words per Minute)</th>
<th>LubricationInterval</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>3000 hr or 1 yr*</td>
</tr>
<tr>
<td>75</td>
<td>2400 hr or 1 yr*</td>
</tr>
<tr>
<td>100</td>
<td>1500 hr or 6 mos</td>
</tr>
<tr>
<td>200</td>
<td>1000 hr or 4 mos</td>
</tr>
</tbody>
</table>

* Whichever occurs first.
1.04 The lubricants to be used and their methods of application are those specified in Section P30.011. The lubrication symbols used herein are the same as those given in that section. However, the simple symbol 0, which according to Section P30.011 indicates one or two drops of oil, is used in this practice to mean only one drop of oil. Symbols, such as 02, 03, or 020, are used herein to specify that two, three, or twenty drops respectively are to be applied at the points indicated.

1.05 The 28C transmitter-distributor unit should be lubricated in accordance with the following general information and with the specific instructions illustrated in Part 2.

(a) Lubricate all spring eyes with one drop of oil.
(b) Lightly oil all cam surfaces, sliding surfaces, and pivot points.
(c) Apply a light coating of grease to all gears.
(d) Saturate all felt oil retainers (felt lubricating washers and wicks) with oil.

Overlubrication, however, which would permit oil or grease to drip or be thrown on other points should be avoided. Special care should be taken to prevent oil or grease from getting on any contact point face.

1.06 The photographs in Part 2 show the paragraph numbers referring to particular line drawings of mechanisms and the location of these mechanisms on the unit. Parts in the line drawings are shown in an upright position unless otherwise indicated. If it is difficult to lubricate a part in the indicated position, the unit should be turned to a position in which the part is more accessible.
2. PARTS TO BE LUBRICATED

Note: The unit should be upside down for the lubrication shown in 2.01 to 2.03, inclusive.

2.01 Clutch-trip and Storing-switch Assemblies
   (Bottom View)
2.02 Clutch-trip Assemblies

- HOOKS - EACH END, ANTI-BACKLASH SPRING
- SAT FELT WASHERS, CLUTCH TRIP LEVER
- O2 PIVOT POINTS, CLUTCH TRIP LEVER ANTI-BACKLASH LEVER
- HOOKS - EACH END, ARMATURE BAIL SPRING
- SAT FELT WASHERS, ARMATURE SHAFT
- O PIVOT POINTS, ARMATURE SHAFT
- O HOOKS - EACH END, CLUTCH TRIP LEVER SPRING
- SAT OIL WICK, CLUTCH TRIP LEVER SPRING
Note: The unit should be upright for the lubrication shown in 2.04 to 2.15, inclusive.

2.04 Distributor-block, Clutch, and Camsleeve Assemblies, etc.
(Top View)
Clutch Assemblies

- Hooks - Each End
- Clutch Shoe Lever Spring
- SAT Felt Wick (2 Places)
- Clutch Shoe

- Hooks - Each End
- Clutch Shoe Spring
2.07 Cam sleeve Assemblies

- SAT FELT WASHERS
- CAM SLEEVE
- GEAR
- CLUTCH
- O2 BEARING (2)
- CLUTCH SHAFT
- SAT FELT WICKS
- IDLER GEAR SHAFT
- O3 OIL HOLE
- (OPPOSITE SIDE)
- CAM SLEEVE
- G GEAR
- CLUTCH
2.09 Pivoted Sensing-head

- O2 Pivot Point
- TAPE DEPRESSOR

- O Hook - Each End
- TAPE DEPRESSOR SPRING

- O Hook - Each End
- TAPE DEFLECTOR SPRING

- O2 Pivot Points
- YOKE AND TAPE DEFLECTOR

- O2 Pivot Point
- TAPE LID
2.10 Check Pawl and Feed Wheel

- O2 PIVOT POINTS
- SAT FELT WASHERS
- FEED WHEEL
- FEED WHEEL
- O TEETH
- FEED WHEEL RATCHET
- O2 PIVOT POINT
- CHECK PAWL
- O HOOKS - EACH END
- CHECK PAWL SPRING
2.13 Sensing Mechanism

- SLIDING SURFACES
- SENSING PINS

- SAT FELT WASHER
- CAM FOLLOWER ROLLER

- HOOKS - EACH END
- AUXILIARY LEVER SPRING

- HOOKS - EACH END
- SENSING BAIL SPRING

- PIVOT POINT
- SENSING PIN

- PIVOT POINT
- SENSING BAIL
- SENSING PINS
2.14 Sensing Mechanism (Cont'd)

- Hooks - Each End
  - Pusher Stripper Bail Spring

- Pivot Point
  - Pusher Stripper Bail

- Felt Washer
  - Cam Follower Roller

- Hooks - Each End
  - Latch Stripper Bail Spring

- Felt Washer
  - Cam Follower Roller

- Pivot Point
  - Latch Stripper Bail
Sensing Mechanism (Cont'd)

- PIVOT POINTS
- AUXILIARY LEVERS
- HOOKS - EACH END
- AUXILIARY LEVER SPRING
- SLIDING SURFACES
- PUSH LEVERS
- HOOKS - EACH END
- PUSH LEVER SPRINGS
- PIVOT POINTS
- PUSH LEVERS
- SLIDING SURFACES
- LATCH LEVERS
- HOOKS - EACH END
- LATCH LEVER SPRING
- PIVOT POINTS
- PUSH LEVERS
3. REFERENCE TO BELL SYSTEM PRACTICES

3.01 The following Bell System Practices contain information which may be required in connection with this practice.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teletypewriter Apparatus, General Requirements and Procedures</td>
<td>P30.012</td>
</tr>
<tr>
<td>Teletypewriter Apparatus, Lubrication, General Requirements</td>
<td>P30.011</td>
</tr>
<tr>
<td>Teletypewriter Apparatus, Preparation of Apparatus for Installation</td>
<td>P33.014</td>
</tr>
<tr>
<td>28C Transmitter-Distributor Unit, Requirements and Procedures</td>
<td>P34.631</td>
</tr>
<tr>
<td>28C Transmitter-Distributor Unit, Wiring Diagrams</td>
<td>P34.304</td>
</tr>
</tbody>
</table>