This section contains the lubrication procedures for the maintenance of the 28B transmitter-distributor unit. General lubrication instructions are given in Part 2, and Part 3 presents general lubrication views of the unit. The details of lubrication are described in Part 4.

1.02 The 28B transmitter-distributor unit is designed for use with the 82B1 teletypewriter switching system and consists of a pivoted transmitter, a fixed transmitter, and a distributor.

2. GENERAL LUBRICATION INSTRUCTIONS

2.01 The 28B transmitter-distributor unit should be lubricated before it is placed in service in accordance with 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. The following lubrication schedule may be used as a guide.

<table>
<thead>
<tr>
<th>Operating Speed</th>
<th>Lubrication Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>60 wpm</td>
<td>3000 hours or 1 year*</td>
</tr>
<tr>
<td>75 wpm</td>
<td>2400 hours or 1 year*</td>
</tr>
<tr>
<td>100 wpm</td>
<td>1500 hours or 6 months*</td>
</tr>
</tbody>
</table>

*Whichever occurs first.
2.02 The lubricants and methods of lubrication 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 section to mean only one drop of oil. Symbols, such as 02, 03, and 020, specify that two, three, or twenty drops of oil respectively, should be applied at the parts indicated.

2.03 The following general instructions supplement the specific points of lubrication which are illustrated in Part 4, Detailed Lubrication Instructions.

(1) Lubricate all spring eyes with one drop of oil.

(2) Cam surfaces and all sliding surfaces are to be lightly oiled.

(3) All pivot points are to be oiled.

(4) All felt oil retainers (felt lubricating washers and wicks) are to be saturated with oil.

(5) The gears are to be covered with a light coat of grease. Overlubrication, however, which would permit oil or grease to drip or be thrown on other parts should be avoided. Special care should be taken to prevent oil or grease from getting on any contact point face.

2.04 The 28B transmitter-distributor unit should be lubricated as indicated in the figures in Part 4, Detailed Lubrication Instructions. The photographs in that part show the paragraph numbers referring to particular line drawings of mechanisms on the unit. Parts in the line drawings are shown in an upright position unless otherwise specified.
4. DETAILED LUBRICATION INSTRUCTIONS

4.01 Clutch Trip Assemblies
4.02 Storing Switch Assembly
4.03 Distributor Block Assembly

- G PIVOT POINTS
- CONTACT LEVERS
- G CONTACT POINTS
- CONTACT LEVERS
- O HOOKS - EACH END
- CAM FOLLOWER LEVER SPRINGS
- O2 PIVOT POINT
- CAM FOLLOWER LEVER
4.04 Clutch Assemblies

- Hook - Each End
- Clutch Shoe Lever Spring
- Sat
- Felt Wick (2 Places)
- Clutch Shoe

- Hook - Each End
- Clutch Shoe Spring
4.05 Cam Sleeve Assemblies

- **G**: Gears (2)  (CLUTCH)
- **O2**: Bearings (4)  (CLUTCH SHAFTS)
- **SAT**: Felt Wicks  (IDLER GEAR SHAFT)
- **O3**: Oil Holes (2) (OPPOSITE SIDE)  (CAM SLEEVE)
- **SAT**: Felt Washers (6)  (CAM SLEEVE)
4.07 Pivoted Sensing Head

- O2 PIVOT POINT
- HOOKS - EACH END
- TAPE DEPRESSOR SPRING
- TAPE DEPRESSOR
- HOOKS - EACH END
- TAPE DEFLECTOR SPRING
- TAPE DEFLECTOR
- O2 PIVOT POINTS
- YOKE AND TAPE DEFLECTOR
- O2 PIVOT POINT
- TAPE LID
4.08 Check Pawl and Feed Wheel

- 02 Pivot Points
- SAT Felt Washers
- 0 Teeth
- 02 Pivot Point
- Check Pawl
- 0 Hooks - Each End
- Check Pawl Spring
- 02 Pivot Point
- Feed Wheel
- Feed Wheel
- Feed Wheel Ratchet
4.09 Pivoted 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
4.10 Fixed Sensing Mechanism

- SLIDING SURFACE SENSING PINS
- HOOKS - EACH END SENSING BAIL SPRINGS
- HOOKS - EACH END SENSING PIN SPRINGS
- PIVOT POINT SENSING PIN
- SAT FELT WICK CAM FOLLOWER ROLLER
- PIVOT POINT SENSING BAIL SENSING PINS
4.11 Sensing Mechanism

- HOOKS - EACH END
  - PUSHER STRIPPER BAIL SPRING

- PIVOT POINT
  - PUSHER STRIPPER BAIL

- SAT FELT WASHER
  - CAM FOLLOWER ROLLER

- HOOKS - EACH END
  - LATCH STRIPPER BAIL SPRING

- SAT FELT WASHER
  - CAM FOLLOWER ROLLER

- PIVOT POINT
  - LATCH STRIPPER BAIL
4.12 Sensing Mechanisms

- PIVOT POINTS
- AUXILIARY LEVERS
- HOOKS - EACH END
- AUXILIARY LEVER SPRING
- SLIDING SURFACES
- PUSH LEVERS
- HOOKS - EACH END
- PUSH LEVER SPRINGS
- HOOKS - EACH END
- LATCH LEVER SPRING
- SLIDING SURFACES
- LATCH LEVERS
- PIVOT POINTS
- PUSH LEVERS
4.13 Feed Mechanism

- Sat Felt Washers
- Pivot Shaft
- Sat Felt Washer
- Feed Lever
- Sliding Surface
- Feed Lever
- Hooks - Each End
- Feed Lever Spring
- Sat Felt Washer
- Cam Follower Roller
- O2 Pivot Point
- Feed Lever
4.14 Feed Mechanism

- Ratchet Teeth
- Feed Wheel
- SAT Felt Wicks
- Feed Wheel
- O2 Detent Roller
- Feed Wheel
- Hooks - Each End
- Spring
- Pivot Point
- Detent Lever
- Hooks - Each End
- Spring
- O2 Pivot Points
- Feed Lever Bail
4.15 Tape Lid and Tape Guide

- SAT FELT WASHER
- TAPE LID

- O2 PIVOT POINTS
- TAPE LID LATCH

- O SLIDING SURFACE
- PLUNGER

- G LATCHING SURFACE
- LATCH BAIL
4.16 Tape-Out and Tape Lid Mechanism

- SLIDING SURFACE
- CONTACT POINT
- HOOKS - EACH END
- GUIDE SLOT
- TAPE OUT PIN
- TAPE OUT PIN EXTENSION
- SPRING
- TAPE OUT PIN GUIDE POST

- SLIDING SURFACE
- TAPE LID PIN
- GUIDE SLOT
- TAPE LID PIN GUIDE POST
4.17 Tight Tape Sensing Mechanism

- Pivot Point
- Tight Tape Bail
- Sliding Surface
- Pivot Point
- Intermediate Bail
- Hooks Each End
- Yield Spring
- Pivot Point
- Slide Arm Assembly
- Pivot Point
- Slide Arm
- Pivot Point
- Point of Contact
- End of Slide Arm
5. REFERENCE TO BELL SYSTEM PRACTICES

5.01 The following Bell System Practices contain information which applies to the 28B transmitter-distributor unit.

<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>28B Transmitter-Distributor Unit, Requirements, Procedures, and Disassembly</td>
<td>P34.632</td>
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