28B AND 28C TRANSMITTER-DISTRIBUTOR UNITS

LUBRICATION

CONTENTS

1. GENERAL ............................................. 1.01-1.05
2. GENERAL LUBRICATION PHOTOGRAPHS........ 2.01
3. PARTS TO BE LUBRICATED* ......... 3.01-3.20
4. ASSOCIATED BELL SYSTEM PRACTICES... 4.01

1. GENERAL

1.01 This section contains the detailed lubrication procedures for the 28B and 28C transmitter-distributor units. The information herein, together with that in the section covering general information and routines for lubrication of teletypewriter apparatus, provides for the complete lubrication of these units.

1.02 This section replaces Sections P34.602, Issue 1, and P34.603, Issue 1, and brings up to date the lubrication procedures for the 28B and 28C transmitter-distributor units.

1.03 The lubricants to be used and their methods of application are those given in the general lubrication section. The lubrication symbols used herein are the same as those given in the general section except that, in this section, the symbol O is used to mean only one drop of oil, O2 to mean two drops of oil, and G to mean that a thin film of grease should be applied at the points indicated.

*Common to 28B and 28C units unless otherwise indicated.
Caution: The transmitter-distributor unit is shipped with the oil reservoir empty. Remove the coverplate for access to the reservoir. Fill the oil reservoir according to the lubrication instructions for Oil Reservoir Assembly.

1.04 Lubrication of the apparatus before it is placed in service should be governed by the principles given in the section covering preparation of teletypewriter apparatus for installation. After a few weeks in operation, the unit should ordinarily be relubricated to make sure that all the specified points have received lubricant. Thereafter, because of varying conditions at each station, the unit should be relubricated as often as specified by local instructions. The following lubrication schedule may be used as a guide.

<table>
<thead>
<tr>
<th>Operating Speed (Words per Minute)</th>
<th>Lubrication Interval (Whichever Occurs First)</th>
</tr>
</thead>
<tbody>
<tr>
<td>60</td>
<td>3000 hours or 1 year</td>
</tr>
<tr>
<td>75</td>
<td>2400 hours or 9 months</td>
</tr>
<tr>
<td>100</td>
<td>1500 hours or 6 months</td>
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</tbody>
</table>

1.05 Unless otherwise indicated, the lubrication procedures in Part 3 of this section are common to both the 28B and the 28C transmitter-distributor unit.

2. GENERAL LUBRICATION PHOTOGRAPHS

2.01 The following photographs (Fig. 1 through 6) show the location on the 28B or 28C transmitter-distributor unit of the mechanisms to be lubricated. Specific lubrication instructions are given in the line drawings in Part 3 of the section. 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.
Fig. 1—28B Transmitter-Distributor Unit—Bottom View
Fig. 2-28B Transmitter-Distributor Unit—Top View
Fig. 5 — 28C Transmitter-Distributor Unit — Top View
3. PARTS TO BE LUBRICATED

3.01 Clutch-trip Assemblies

- O Hooks - Each End
- Sat Felts Washers
- Sat Oil Wick
- 02 Pivot Points
- Sat Felts Washers
- O Pivot Points
- O Hooks - Each End
- Clutch Triplever
- Clutch Triplever Spring
- Clutch Triplever Lever
- Antibacklash Lever
- Antibacklash Spring
- Armature-Bail Spring
- Armature Shaft
- Armature Shaft
3.02 Storing Switch Assemblies

- PIVOT POINTS
- CONTACT POINTS
- CONTACT LEVER EXTENSION
- CONTACT LEVER SLIDE
- ENGAGING SURFACE
- CONTACT LEVER SLIDE
- PIVOT POINTS
- CONTACT LEVER SLIDE
- HOOKS - EACH END
- CONTACT LEVER SLIDE
- SPRING
3.03 Distributor Block Assembly

- PIVOT POINTS
- CONTACT POINTS
- CAMMING SURFACE
- GUIDE SLOTS
- HOOKS - EACH END
- LOOPS
- PIVOT POINT 2
- CONTACT LEVERS
- CONTACT LEVERS
- CAM FOLLOWER LEVER
- CAM FOLLOWER LEVER
- CAM FOLLOWER LEVER SPRINGS
- COMPRESSION SPRING
- CAM FOLLOWER LEVER

28B AND 28C TRANS- MITER-DISTRIBUTOR UNITS

P34.511
3.04 Clutch Assemblies

- HOOKS - EACH END
- CLUTCH-SHOE LEVER SPRING
- SAT FELT WICK (2 PLACES)
- CLUTCH SHOE
- HOOKS - EACH END
- CLUTCH-SHOE SPRING
3.05 Cam Sleeve Assemblies (28B Unit)

- G GEARS (2)
- O2 BEARINGS (4)
- SAT FELT WICKS
- O3 OIL HOLES (2) (OPPOSITE SIDE)
- CAM SLEEVE
- CLUTCH
- CLUTCH SHAFTS
- IDLER-GEAR SHAFT
- CAM SLEEVE
- SAT FELT WASHERS (6)
3.06 Cam Sleeve Assemblies (28C Unit)
3.07 Pivoted Sensing Head

- HOOKS - EACH END
- SAT FELT WICK (2 PLACES)
- CLUTCH-SHOE LEVER SPRING
- CLUTCH SHOE
- CLUTCH-SHOE SPRING
3.08 Check Pawl and Feed Wheel

- **O2** PIVOT POINTS
- **SAT** FEEL WASHERS
- **0** TEETH
- **O2** PIVOT POINT
- **0** HOOKS - EACH END

**FEED WHEEL**

**FEED WHEEL**

**FEED-WHEEL RATCHET**

**CHECK PAWL**

**CHECK-PAWL SPRING**
OIL DEPTH NOT TO EXCEED 7/8 INCH. USE A 0.010 – INCH FLAT GAUGE FROM TPI17781 SET OF GAUGES AS A DIP STICK.
3.11 Fixed Sensing Mechanism (28B Unit)
3.12 Sensing Mechanism

- HOOKS - EACH END
- PUSHER-STRIPPER-BAIL SPRING
- PIVOT POINT
- PUSHER-STRIPPER BAIL
- SAT FELT WASHER
- CAMFOLLOWER ROLLER
- HOOKS - EACH END
- LATCH-STRIPPER-BAIL SPRING
- SAT FELT WASHER
- CAMFOLLOWER ROLLER
- O2 PIVOT POINT
- LATCH-STRIPPER BAIL
3.13 Sensing Mechanism

- 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 Surface
- Latch Levers
- Hooks - Each End
- Latch Lever Spring
- Bearing Surface
- Latch Lever and Push Lever
- Hooks - Each End
- Push Lever Spring
- Engaging Surface
- Latch Lever
3.14 **Feed Mechanism** (28B Unit)

- SAT FELT WASHERS
- PIVOT SHAFT
- SAT FELT WASHER
- FEED LEVER
- SLIDING SURFACE
- FEED LEVER
3.15 Feed Mechanism (28B Unit)
3.16 Feed Mechanism

- SAT FELT WASHERS
- PIVOT SHAFT
- SAT FELT WASHER
- FEED LEVER
- SLIDING SURFACE
- FEED LEVER
- O HOOKS - EACH END
- FEED-LEVER SPRING
- SAT FELT WASHER
- CAMFOLLOWER ROLLER
- O PIVOT POINT
- FEED LEVER
3.17 Tape Lid and Tape Guide (28B Unit)

- TEETH
- START-STOP LEVER
- START-STOP DETENT BAIL
- TAPE-LID SHAFT
- TAPE-LID RELEASE BAIL
- LATCHING SURFACE
- TAPE-LID LATCH
- EACH LOOP
- BEARING SURFACE
- TAPE-LID LATCH SPRING
3.18 Tight-tape Sensing Mechanism (28B Unit)

- Pivot Point
- Tight-tape Bail
- Sliding Surface
- Tight-tape Bail
- Pivot Point
- Intermediate Bail
- Hooks Each End
- Yield Spring
- Pivot Point
- Slidearm Assembly
- Pivot Point
- Slidearm
- Pivot Point
- End of Slidearm
- Point of Contact
3.19  **Tape-out Mechanism (28B Unit)**

- **SLIDING SURFACE TAPE-OUT PIN**
- **CONTACT POINT TAPE-OUT PIN EXTENSION**
- **HOOKS - EACH END SPRING**
- **GUIDE SLOT TAPE-OUT PIN GUIDE POST**
4. ASSOCIATED BELL SYSTEM PRACTICES

4.01 Other Bell System Practices that may be required in connection with this section are listed in Section P34.001, Alphabetical Index of 28-type Equipment, Bell System Practices, and Associated 28ASR Station Drawings.