

**BELL SYSTEM PRACTICES**  
**Teletypewriter Stations**

**SECTION P35.602**  
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**AT&T Co Standard**

## **14-TYPE TRANSMITTER-DISTRIBUTOR LUBRICATION**

### **1. GENERAL**

1.01 This section covers the lubrication of the parts of the 14-type transmitter-distributors and their auxiliary features.

1.02 This section is being reissued to add the lubrication of parts of the transmitter-distributors equipped with an all-steel internal expansion clutch.

1.03 The lubricants and methods of lubrication are those specified in Section P30.011—Teletypewriter Apparatus—Lubrication—General Requirements.

1.04 The number of drops of oil to be applied at each lubrication point is specified by symbols such as "02" or "04" meaning that two or four drops respectively are to be used.

### **2. PARTS TO BE LUBRICATED**

2.01 The following parts should be lubricated in accordance with the symbols:

- O—Oil
- G—Grease
- GS—Grease Sparingly
- OG—Oil and Grease
- OS—Oil Sparingly
- OGO—Oil-Grease-Oil
- SAT—Saturate with oil

<u>Part</u>	<u>Where Lubricated</u>	<u>Lubri- cant</u>
(a) Contact-Lever Bail	Bearings	O
(b) Contact Levers	Bearings and Guides	O
(c) Detent Levers	Bearing	O
(d) Detent Roller	Bearing	O
(e) Feed-Lever	Bearing	O
(f) Springs, Helical	Loop Ends	O
(g) Feed-Pawl	Bearing	O
(h) Feed-Wheel	Bearings	O
(i) Retaining Lid	Latch and Bearings	O
(j) Stop-Arm	Bearing and Cam-engaging Surface	OGO
(k) Stop-Cam	Outside edge (thin film)	G
(l) Auxiliary Contact	Bakelite Tip	G
(m) Tight-Tape Stop Mechanism	Engaging surface of bake- lite tip of spring and lower end of contacting pin	G
(n) Auto-Stop Lever	Bearing	O
(o) Operating Lever*	Bearing	O
(p) Operating-Lever Roller*	Bearing	O
(q) Gear, Motor-Pinion	Teeth (thin film)	G
(r) Clutch	Felt washers. Separate driv- ing disc with a screw- driver and saturate the felt washers. Press screw- driver well into the felt washer to avoid distort- ing or burring driving discs.	O
(s) Main-Shaft	Upper and Lower Ball Bearings	O
(t) Gear, Main-Shaft	Teeth (thin film)	G

**Note:** \*To gain access to part, remove base plate.

<u>Part</u>	<u>Where Lubricated</u>	<u>Lubri- cant</u>
(u) Motor	Bearings 1. Apply one stroke of Grease-gun 2. Run motor a few minutes. 3. When motor stops, wipe off excess grease.	G
<b>Caution: Excess grease will cause starting-switch trouble on synchronous motors, commutator trouble and false grounding on d-c and a-c series motors. Lubrication intervals should be strictly adhered to.</b>		
(v) Operating-Cam	Outside edge (thin film)	G
(w) Operating-Lever adjusting screw	Head of screw	G
(x) Tape-Stop Magnet Contact Assembly (auxiliary feature)	Contact surface of bakelite tip (thin film)	G
<b>Note:</b> To prevent sticking of the end-of-tape contact pin, remove excess oil at position of its guide.		
(y) Tape-Feed Withhold Mechanism (auxiliary feature)		
1. Armature	Bearing	GS
2. Feed-Lever	Bearing	O
3. Feed-Pawl	Bearing	O
4. Feed-Pawl	Upper and lower engaging surfaces (thin film)	G

2.02 The 14AA, 14AB, and 14AD transmitter-distributors should be lubricated as above. In addition, Dixon's 677 Graphite Gear Lubricant should be liberally applied to the two felt lubricant retainers of the stop-arm, to the stop lug and to the latching surfaces at the left-hand end of the stop-arm and to the armature retractive spring throughout its length.

2.03 The following applies to transmitter-distributors<sup>†</sup> equipped with an all steel internal expansion clutch instead of the friction clutch:

<u>Part</u>	<u>Where Lubricated</u>	<u>Lubri- cant</u>
(a) Contact-Lever Bail	Bearings	O
(b) Contact Levers	Bearings and Guides	O
(c) Detent Levers	Bearing	O
(d) Detent Roller	Bearing	O
(e) Feed-Lever	Bearing	O
(f) Springs, Helical	Loop Ends	O
(g) Feed-Pawl	Bearing	O
(h) Feed-Wheel	Bearings	O
(i) Retaining Lid	Latch and Bearings	O
(j) Stop Lever	Bearings and end of lever at point of engagement with shoe release lever	OGO
(k) Latch Lever	Bearings	OGO
(l) Auxiliary Contact	Bakelite Tip	G
(m) Tight-Tape Stop Mechanism	Engaging surface of bakelite tip of spring and lower end of contacting pin	G
(n) Auto-Stop Lever	Bearing	O
(o) Operating Lever*	Bearing	O
(p) Operating-Lever Roller*	Bearing	O
(q) Gear, Motor-Pinion	Teeth (thin film)	G
(r) Clutch	Internal mechanism	O4
(s) Main-Shaft	Upper and Lower Ball Bearings	O
(t) Gear, Main-Shaft	Teeth (thin film)	G
(u) Motor	Bearings (2 places)	G

1. Apply one stroke of grease-gun
2. Run motor a few minutes.
3. When motor stops, wipe off excess grease.

<u>Part</u>	<u>Where Lubricated</u>	<u>Lubri- cant</u>
	<b>Caution: Excess grease will cause starting-switch trouble on synchronous motors, commutator trouble and false grounding on d-c and a-c series motors. Lubrication intervals should be strictly adhered to.</b>	
(v) Operating-Cam	Outside edge (thin film)	G
(w) Operating-Lever adjusting screw	Head of screw	G
(x) Tape-Stop Magnet Contact Assembly (auxiliary feature)	Contact surface of bakelite tip (thin film)	G
<b>Note:</b> To prevent sticking of the end-of-tape contact pin, remove excess oil at position of its guide.		
(y) Tape-Feed Withhold Mechanism (auxiliary feature)		
1. Armature	Bearing	GS
2. Feed-Lever	Bearing	O
3. Feed-Pawl	Bearing	O
4. Feed-Pawl	Upper and lower engaging surfaces (thin film)	G
(z) Clutch Drum Bearing	Felt oiler	SAT
(aa) Clutch Disc	Outside edge (thin film)	G