

INSTRUCTIONS FOR INSTALLING THE 195634 MODIFICATION  
KIT TO PROVIDE QUICK RELEASE ARMATURE FOR MODEL 28,  
29 AND 35 ONE CYCLE SELECTORS TO OVERCOME THE EFFECT  
OF OIL ON THE ARMATURE (THIS KIT IS NOT FOR USE WITH  
200 WPM UNITS)

1. GENERAL

a. The 195634 Modification Kit provides a quick release armature for Model 28, 29 and 35 one cycle Selectors (LP, LPR, LPRE, LRS, LS and LTP) that overcomes the adhesive effect of any oil film that may be present on the armature.

b. A certain amount of oil vapor is normally present in the air around the Selectors which tends to form an adhesive film between the armature and magnet core surfaces. This delays the armature response to the initial start or "no current" signal impulse. If the armature release is delayed enough, the start of the main shaft rotation will be delayed to an extent that the first character will be mis-interpreted or lost completely. Since a sequence of characters is often used to route a message to its proper destination, the loss or mis-interpretation of a first character may cause a message to be mis-directed.

c. The 195634 Modification Kit is compatible with all Model 28, 29 and 35 one cycle Selectors that are operated on 20, 30 or 60 milliampere signal line current.

NOTE

This kit is not for 200 WPM Units.

d. The 195251 Armature Assembly of the kit is distinguished from the present standard armatures by the two anti-freeze buttons.

\*e. The 195634 Modification Kit consists of:

1	104824	Spring	1	195251	Armature Assembly
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f. For parts ordering information refer to Teletype Parts Bulletins 1149B and 1187B.

2. INSTALLATION

a. Remove the two screws and the nut that mount the range finder to the selector. Disengage the range finder and rotate it counterclockwise removing it from the selector.

b. Remove the cable from the coil terminal screws.

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\*Indicates change

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c. Remove the two magnet assembly mounting screws and lift the assembly out of the hole in the locating plate and slide it out of the unit.

d. Disconnect the 151715 Spring from the 152425 Armature Spring Post and remove the 152425 Spring Post, 152426 Nut and 151603 Spacing Collar from the 152423 Bracket.

\*e. Remove the two 151686 Screws and 110743 Lockwashers that mount the 152424 or 160184 Stop Plate. Remove the 152423 Bracket and the 153543 or 160180 Armature from the 153545, 160177 or 164386 Selector Magnet Bracket. Discard the 153543 or 160180 Armature and 151715 Spring.

#### CAUTION NOTE

Handle the 195251 Armature Assembly with care in order to avoid damage to the 194923 Hinge Spring.

\*f. Install the 104824 Spring on the 195251 Armature Assembly. (Insert the 195251 Armature inside of the 160182 Downstop Bracket, if present on the unit, and loosen the 150978 Downstop Bracket Adjusting Screw, if necessary.) Using the two 151686 Mounting Screws and 110743 Lockwashers, assemble the 152424 or 160184 Stop Plate, 152423 Bracket and 195251 Armature to the 153545, 160177 or 164386 Selector Magnet Bracket.

\*g. Assemble the 152425 Spring Post, 151603 Spacing Collar and 152426 Nut to the 152423 Bracket and hook the 104824 Spring to the 152425 Spring Post.

h. Make the Selector Armature Adjustment, as found in Teletype Bulletin 217B (Bell System refer to standardized information), at this time.

i. Adjust the Selector Armature Spring Tension to its preliminary requirement as given in Section 3 of this specification.

j. Carefully guiding the selector armature between the spacing and marking lock levers, reassemble the selector magnet bracket to the unit with the two 151631 Screws, 2191 Lockwashers and 125015 Washers.

k. Reassemble the range finder to the unit with the nut and two mounting screws, carefully engaging the selector start lever bail with the selector start lever extension.

l. Make the adjustments given in Section 3.

### 3. ADJUSTMENTS AND LUBRICATION

a. For standard adjustments and lubrication procedure refer to Teletype Bulletin 217B. (Bell System refer to standardized information).

b. Make the following adjustments referring to Teletype Bulletin 217B. (Bell System refer to standardized information) and attached figures:

- (1) Selector Armature Adjustment.
- (2) Selector Armature Downstop Adjustment (on units so equipped).
- (3) Selector Cam Lubricator Adjustment (on units so equipped).
- (4) Selector Clutch Stop Arm Adjustment.
- (5) Selector Magnet Bracket Adjustment. (Teletype Bulletin 217B).
- (6) Oil Shield Adjustment (on units so equipped).
- (7) Selector Armature Spring Tension.

a. Preliminary (Refer to Figure 1)

With an 8 ounce spring scale hooked over the end of the armature and pulled as nearly vertical as possible, it should require approximately the following tensions to move the rear antifreeze button against the magnet core:

<u>.060 Ampere</u>	<u>.030 Ampere</u>	<u>.020 Ampere</u>
3/4 Oz.	5/8 Oz.	1/2 Oz.

b. Final (Refer to Figure 2)

If a distortion test set is available, the selector armature spring tension should be refined, if necessary, to obtain satisfactory receiving margins. The front button must be in contact with the magnet core when the magnet coils are energized.

- (8) Selector Clutch Latch Lever Spring Tension (Teletype Bulletin 217B).

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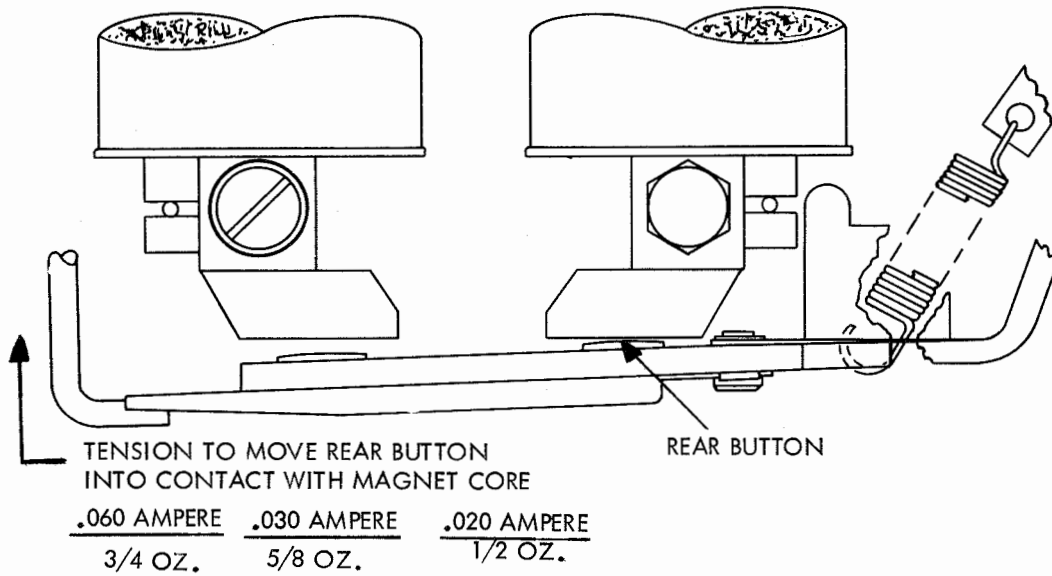


FIGURE 1.

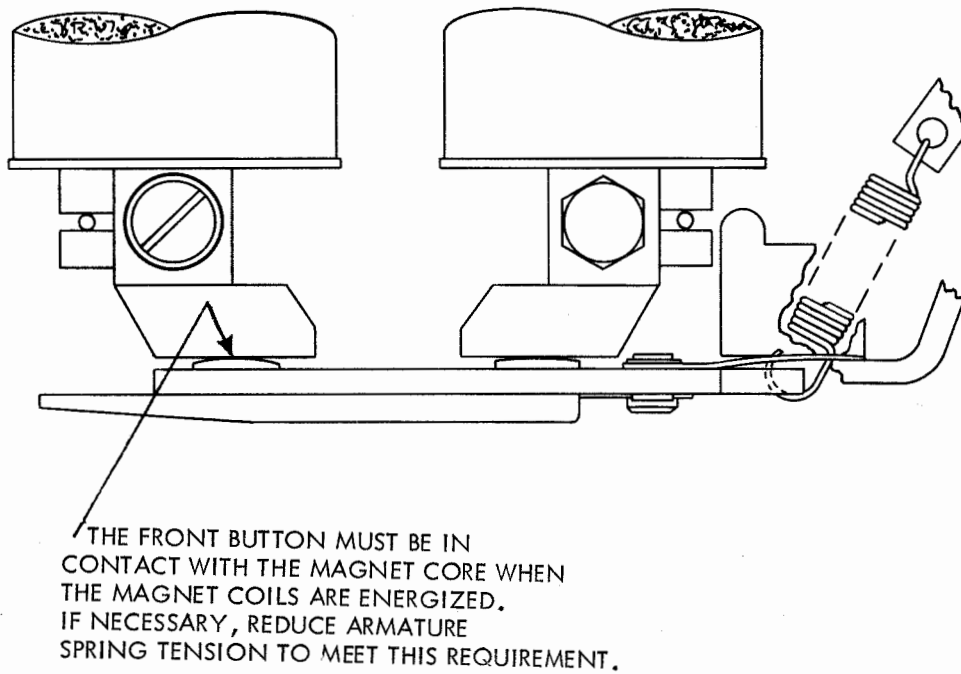


FIGURE 2.