

**Addendum
P35631
Issue 2**

**Section
P35631
Issue 5**

Par. 4.07	Replaces	Par. 4.07
Note	Addition to follow	Par. 4.07
Par. 4.07A to	Addition to follow new	Par. 4.07
Par. 4.07E	note following	Par. 4.07
Par. 4.14	Replaces	Par. 4.14
Note under		Note under
Par. 4.15(a)	Replaces	Par. 4.15(a)
Par. 4.26A	Addition to follow	Par. 4.26
Par. 4.27A	Addition to follow	Par. 4.27
Par. 4.30	Replaces	Par. 4.30
Par. 4.31	Replaces	Par. 4.31
Par. 4.32	Replaces	Par. 4.32
Par. 4.32A	Addition to follow	Par. 4.32
Par. 4.50	Replaces	Par. 4.50
Fig. 5 (Revised)	Replaces	Fig. 5
Fig. 22	Add to section	

2. ADDED AND REPLACING PARAGRAPHS

2.01 The paragraphs given below are written so they can be added directly to the existing text of Section P35631, Issue 5, May 1948, in the locations indicated by the Table in Paragraph 1.04 of this Addendum.

Added and Replacing Paragraphs

1.05 (Replaces) **Auxiliary Features:** The following features have been incorporated in certain new-style transmitter-distributors and may be found also on modified old-style transmitter-distributors:

- TP83844 Set of Parts for a-c governor spark protection, 20-ohm resistor and contacts. (4.07, 4.49, Fig. 18)
- TP84593 Set of Parts for closing a contact during the stop pulse. (4.56-4.59)
- TP106916 Tape-Stop Magnet and Feed Lever Set of Parts. Auxiliary magnet to stop tape feed and permit brush-arm to rotate. (This includes the TP97460 Tape-Stop Magnet.) (4.60-4.63)
- TP101389 Set of Parts for chadless tape. (4.17, 4.20, 4.21, 4.26, 4.28, 4.31)
- TP101481 Set of Tape-Out Mechanism Parts. (4.40-4.45)

TP102520 Tape-Stop Rod (with crook in end). (4.37)

TP104720 Tape-Stop Assembly (delayed start). (4.38, 4.39)

Stop-start mechanism in which a pivoted stop arm is held latched in the stop position by the armature extension. (4.08, 4.11)

Note: (Replaces existing note just preceding Par. 4.03).

4.03-4.07 cover requirements for the stopping and starting mechanism in which the stop arm is an extension of the magnet armature.

Note: (Added just preceding Par. 4.03.) Requirement 4.03 applies only to units equipped with the new style single-core universal stop magnet.

4.08 (Replaces) Stop-Magnet yoke ends clear the armature by approximately the same amount and by Min. .010", Max. .020" when the armature is held in its operated position (against the core, either manually or electrically).

Note: (Delete existing note following Par. 4.03.)

(a) (Replaces) To adjust for equal clearance ("A" and "B" in Fig. 2 equal), use TP8896 shims between the magnet bracket and the top and bottom of the yoke. Fig. 2

(b) (Add) to adjust the armature-yoke gap ("A" and "B" of Fig. 2) for Min. .010", Max. .020", use TP8896 shims between the magnet core and the magnet yoke. Fig. 2

4.07 (Replaces) Stop-arm spring tension on machines equipped with the TP83844 set of parts (stop-arm contact assembly near the cam end of the stop-arm—See Fig. 18 for location of parts), shall be minimum 2-3/4 oz., maximum 3-3/4 oz., measured as in Fig. 5, Item (B). The contact spring shall be held away from the stop-arm when this tension is measured. Figs. 5 & 18

(a) To adjust, replace stop-arm spring with TP10581 spring.

Note: (Add) The requirements of 4.07A through 4.07E apply to the 14BD and 14BE Transmitter-Distributors. These machines are equipped with a 925-ohm, 115-volt d-c stop magnet and a stop magnet contact located directly above the stop magnet. The contact is actuated by the magnet armature.

4.07A (Add) Stop-arm spring tension on machines equipped with the TP118842 contact assembly (stop-

magnet contact located directly above the magnet. See Fig. 22 for location of parts) shall be Min. 5 oz, Max. 7 oz, regardless of the type of motor used. Measure as indicated in Fig. 5, holding off the long contact spring. On units having a-c governed motors with the TP83844 sets of parts, the contact spring of that assembly should also be held away from the stop arm during the measurement of stop-arm spring tension. Figs. 5 & 22

4.07B (Add) Contact springs and stop spring shall be in line and vertical to the base casting. Gauge by eye.

Fig. 22

(a) To adjust, loosen the spring-assembly mounting screws and move the springs into proper position. Tighten the mounting screws.

4.07C (Add) Short Contact Spring: With the armature held against the magnet core, the short contact spring shall bear against the stop spring with perceptible pressure.

(a) To adjust, bend the short contact spring.

4.07D (Add) Long Contact Spring: It shall require Min. 1 oz, Max. 1-1/2 oz to break the contact, with the armature held against the magnet core and an 8 oz scale hooked over the contact spring at the contact point, pulling at a right angle to the spring. Fig. 22

(a) To adjust, bend the long contact spring.

4.07E (Add) Contact gap shall be Min. .015", Max. .020", with the stop arm on the low part of the stop cam (armature released). When the armature is held against the magnet core there shall be some clearance between the insulator and the long contact spring and the armature.

(a) To adjust, loosen the upper bracket mounting screws and move the upper contact bracket into the proper position. Tighten the mounting screws. It may also be necessary to bend the contact springs.

4.14 (Replaces) Feed wheel shaft shall be free in its bearings with minimum end-play when detent is held away from the ratchet.

Note: (Replaces Note following Par. 4.15(a).) If, when the tape-retaining lid is latched, contact between the retaining lid and the front raised portion of the tape guide is made only at one end of the lid, it may have been bent and should either be straightened or replaced.

4.26A (Add) Tape pins on the 14W Transmitter-Distributor shall be .020" below a straight edge placed across the

top edges of the tape-guide channel when the retaining lid is raised and the operating-lever roller is on the low part of its cam. Fig. 12

(a) This requirement is met when a .020" wire gauge rubs lightly between the top of the pin and the straight edge. Tolerance to .025" is not permitted for these transmitter-distributors.

(b) To adjust, reposition lower (marking) contact screws.

4.27 (Add) For 14W Transmitter-Distributor the contact tongues shall clear the associated upper (spacing) contact screws by .006" when the operating-lever roller is on the low part of its cam. This requirement is met if a slight drag is felt when a .006" gauge is introduced. In checking this requirement, the gauge should be removed from the nest and care must be exercised to insure that the gauge is held parallel to the contact surfaces. Tolerance to .008" is not permitted for these transmitter-distributors. Fig. 12

(a) To adjust, reposition upper (spacing) contact screws.

4.30 (Replaces) Contact-lever springs on units equipped with a retaining-lid plate having individual holes to clear tape pins shall have a tension of Min. 3 oz, Max. 4 oz, measured as in Fig. 12 at (A), without tape, as the lower (marking) contacts break, with the operating-lever roller on the low part of its cam. Gauge lower-contact break with lamp, buzzer or ohmmeter. Fig. 12

(b) To adjust, reposition contact-lever spring anchors.

4.31 (Replaces) Contact-lever springs on units equipped with a retaining-lid plate having either 2 or 5 slots to clear tape pins shall have a tension of Min. 6 oz, Max. 7 oz, measured as in Fig. 12, Item (B), as the lower (marking) contacts break, with the operating lever on the low part of its cam. Gauge lower-contact break with lamp, buzzer or ohmmeter. Fig. 12

(a) To adjust, reposition contact-lever spring anchors.

4.32 (Replaces) The amount of pull, applied as in Fig. 12, required to break the circuit through the lower contacts shall not differ by more than 3/4 oz from the pull which just permits the lower contacts to make. Fig. 12

(a) To adjust, remove the contact lever, clean lever and guide slot, and if necessary stone down burrs on lever and in guide slot. If bind has not been removed, replace the contact lever by a new one. Check alignment of contact-lever spring, and if it is sufficiently out of line

with the plane of the contact lever to cause a side pull so that the lever binds in its slot; resolder the spring, taking care not to damage the spring or the terminal block by too much heat. Replace contact lever and check adjustments 425 to 431, incl and 432, if applicable.

4.32A. (Add) For the 14W Transmitter-Distributor it shall require minimum 40 grams, maximum 75 grams pressure applied with the 68B gauge at the end of the contact tongue adjacent to the contact to break a circuit through the upper (spacing) contacts when the operating-lever roller is on the low part of the operating cam and blank tape is in place in the transmitter. Gauge upper (spacing) contact break with lamp, buzzer or ohmmeter.

Fig. 11

(a) If the minimum requirement is not met, adjust as follows: Loosen the two screws holding the insulating strip to which the contact-lever spring anchors are fastened. Remove one screw and insert between the fibre strip and its mounting, two washers (TP7002). Replace this screw and repeat with the screw at the other end of the strip. The displacement of the insulating strip obtained by the use of these washers as shims tends to increase the spring tension and hence the contact pressure and may raise the pressure sufficiently.

(b) If the shimming of the insulating strip does not increase the upper (spacing) contact pressure sufficiently, special attention may need to be given to the soldering of the contact-lever springs to the back end of the contact tongues. Referring to Fig. 12, the contact-lever spring is shown slanted. This is proper when the contact-lever spring anchor is held in place by its terminal screw. With the contact-lever assembly removed from the unit, however, the upper end of the spring should be soldered in such a way that the spring is at right angles to the surface of the spring-anchor end of the contact tongue and hence would be vertical if the contact tongue were held in a position corresponding to Fig. 12. Then when the parts are assembled and the contact-lever spring is anchored in place, the pull to the left tends to rotate the tongue in a clockwise direction and to increase the upper (spacing) contact pressure.

Fig. 12

4.50 (Replaces) Motor and governor shall conform to the requirements of Section P32.004, covering 15-type teletypewriter motor units, except the requirement on motor position and speed, which shall be as specified in 4.01 and 4.52 of this section, and except the governor-speed adjusting-bracket requirement which shall be disregarded.

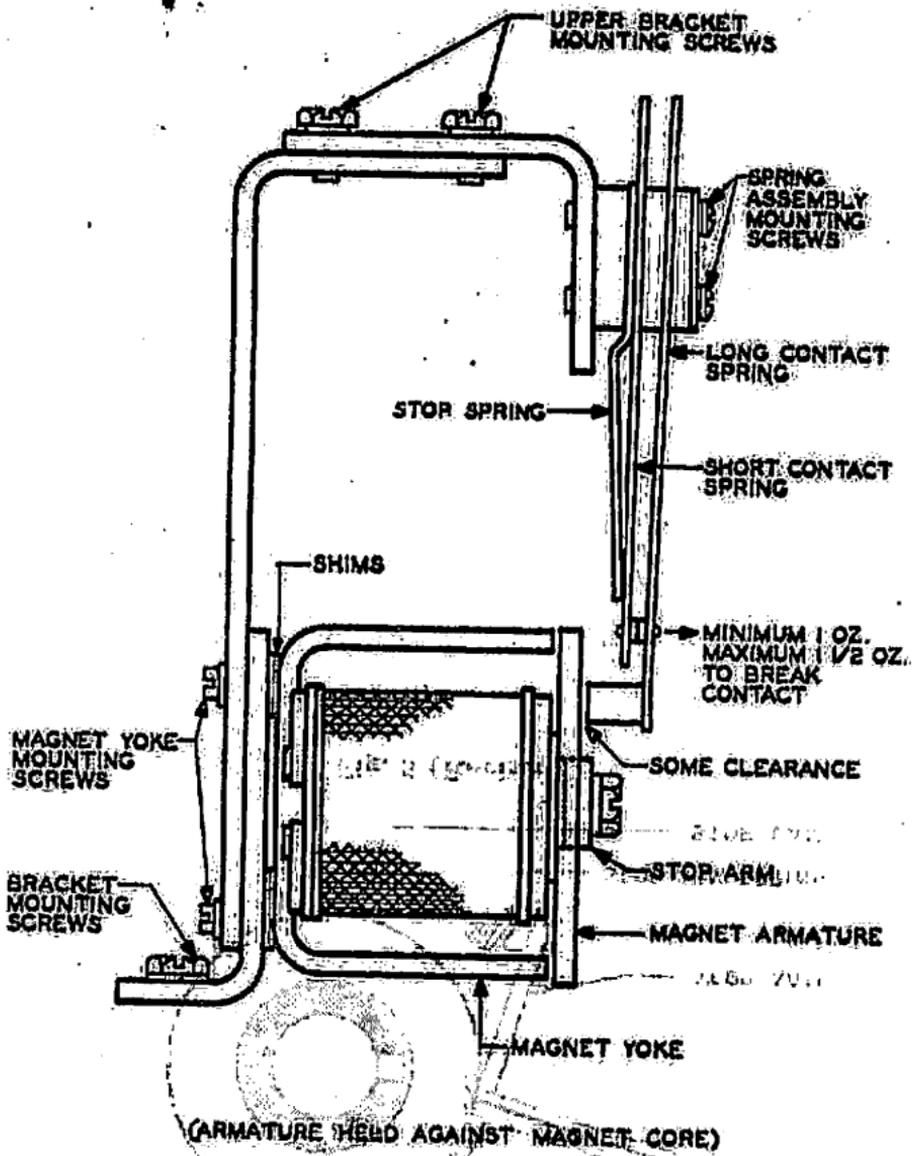


Fig. 22

100% ...
 25% ...
 50% ...
 75% ...
 100% ...