

BELL SYSTEM PRACTICES
Teletypewriter and Data Stations

ADDENDUM P36.476
Issue 1, July, 1960
AT&T Co Standard

INSTALLATION

TP96892 MOTOR-CONTROL PARTS

15 TELETYPEWRITER

1. GENERAL

1.001 This addendum supplements Section P36.476, Issue 3.

1.002 This addendum is issued to revise the information referring to the wiring plans required for use in installing the motor-control parts.

The following change applies to Part 1 of the section:

(a) 1.04—revised

1.04 The device operates to turn on the teletypewriter when the line is opened and then closed, for instance, by a break signal from a distant operator. The motor is turned off on receipt of FIGS H. For operation on FIGS BLANK H refer to Sections P32.003 and P36.464.

2. INSTALLATION

The following change applies to Part 2 of the section:

(a) 2.05—revised

2.05 Remove the TP74588 typing-unit slip-connection terminal-block assembly from the teletypewriter base to make the wiring changes. Where a line current of 60-milliampere neutral operation is used, make the wiring changes as shown in Section P30.412, M2.40 for the 15A teletypewriter base or M2.41 for the 15C and 15D teletypewriter bases. If the teletypewriter station equipment is to operate on polar or 20-milliampere neutral circuits, use the wiring plans in Section P30.412, M2.48 for the 15A teletypewriter base or M2.49 for the 15C and 15D teletypewriter bases.

INSTALLATION

TP96892 MOTOR-CONTROL PARTS

15 TELETYPEWRITER

1. GENERAL

1.01 This section describes the method of installing the TP96892 motor-control parts on 15 teletypewriters. Although developed primarily for use with holding-magnet machines, these parts can be used with pulling-magnet units.

1.02 This section is reissued to bring up to date the lists of components of the TP96892 motor-control parts and the TP96455 line resistor assembly; to revise the instructions for installing the TP96455 line resistor assembly, the TP96895 cable, and the TP96892 set of parts; and to remove reference to fustats. Changes are indicated by marginal arrows.

1.03 Section P32.003 gives a description of the mechanism and its operation, and the adjusting requirements and procedures.

1.04 The device operates to turn on the teletypewriter when the line is opened and then closed, for instance, by a break signal from a distant operator. The motor is turned off on receipt of FIGS H. A line current of 60 to 65 milliamperes is required. For operation on FIGS Blank H refer to P32.003 and P36.464.

1.05 When remote motor control is provided, the power switch in the base should be operative to permit turning the power off when replacing ribbon or paper.

Caution: The attendant should be cautioned to leave the power switch in the ON position except when changing ribbon or paper.

1.06 Apparatus Used

(a) The TP96892 set of parts consists of the TP97645 set of parts for the typing unit and the TP97646 set of parts for the base.

TP97645 Set of Parts:

1—TP82271 FIGS H Function Lever

1—TP82788 Spring

1—TP74890 Contact Assembly

1—TP82633 Cable

TP97646 Set of Parts:

1—TP96893 Motor-stop Unit (Assembly)

1—TP136033 Dust Shield (Assembly) ←

2—TP1038 Screws

3—TP2191 Lockwashers ←

1—TP96894 Motor-stop-unit Bracket

1—TP125006 Screw

1—TP84579 Spacer Washer

1—TP96895 Cable

1—TP76284 Strap

1—TP6745 Screw

1—TP2669 Lockwasher

1—TP8539 Screw ↙

1—TP91768 Wire

(b) The TP136033 dust-shield assembly consists of the following parts:

1—TP2191 Lockwasher

1—TP3640 Lockwasher

1—TP8330 Flat Washer

1—TP74986 Screw

1—TP104807 Flat Washer

1—TP116443 Mounting Post

1—TP136798 Guard with Channel

1—TP136799 Bracket

1—TP151683 Screw ↙

(c) The parts for the typing unit and base are obtainable either separately or under one code number.

(d) If additional line resistance is required, the TP96455 line resistor assembly should be provided. The TP72021 resistance mounting block assembly (15A base only) has to be removed to make room for the motor-control parts.

(e) TP96455 line resistor assembly consists of:

1—TP93073 Resistor Assembly

1—TP96456 Bracket

(f) Provide a Bussmann SOU type fusetron mounting and fusetron to be mounted on the table to take the place of the fuse block and fuse in the teletypewriter base which has to be removed to make room for the motor-control parts.

(g) If required, an H-STOP keytop should be provided as follows:

TP82607 keytop (spring cushion)

TP86630 keytop (celluloid)

2. INSTALLATION

2.01 Remove and discard the following parts from the base:

TP74422 Line-relay base bracket if provided

TP74628 Fuse block and fuse

TP72021 Resistance mounting block assemblies and insulators from 15A base (2 of each)

2.02 In place of the relay base bracket, install the motor-stop-unit bracket (which also mounts the line-relay base when a line relay is used) using the TP125006 flathead screw, the TP6745 screw and TP2669 lockwasher, and the TP84579 spacer washer furnished. (The spacer washer should be installed between the base casting and the bracket.) Using the two TP1038 screws and TP2191 lockwashers furnished, install the TP96893 motor-stop unit on the motor-stop bracket with the terminal block on the motor stop toward the front of the base.

2.03 When the TP96455 line resistor assembly is used, install the assembly by attaching it to the base in front of the motor-stop unit with one TP8539 screw and one TP2191 lockwasher furnished with the set of parts. Make the wiring changes as shown in Section P30.412, M2.42; and use the appropriate line connection as covered in Section P30.501.

2.04 Install the TP96895 cable, running the black, green, and blue wires (long leg of cable) through the cable hole at the left of the base so that these wires project into the cavity of the base. Run the red and black wires (short leg) along the rear face of the vertical wall to the TP74588 slip-connection block.

2.05 Remove the TP74588 typing-unit slip-connection terminal-block assembly from the base to make the wiring changes as shown in Section P30.412, M2.40 for the 15A base

and M2.41 for the 15C and 15D bases. Replace the TP74588 terminal-block assembly.

2.06 When the station is to operate on ac power the 350-ohm resistance in the motor-stop unit should be shorted out.

2.07 To install the TP136033 dust-shield assembly on the TP96893 motor-stop unit assembly, replace the TP1026 screw with the TP116443 mounting post and retain the TP1026 screw. Remove the TP6746 screw and TP2191 lockwasher and discard the TP6746 screw. Attach the TP136799 bracket to the TP82531 stop-magnet bracket with the TP74986 screw and previously removed TP2191 lockwasher. Place the TP136798 dust shield on the TP116443 mounting post and TP136799 bracket so that the edge of the shield with the rubber channel is over the TP73670 terminal block. Secure the shield to the TP116443 mounting post with the TP8330 washer, TP2191 lockwasher, and TP1026 screw; and to the TP136799 bracket with the TP104807 washer, TP3640 lockwasher, and TP151685 screw.

2.08 With the typing unit removed from the base and resting on its right side, install the TP82271 FIGS H function lever as follows.

2.09 Rotate the main shaft until the printing bail is in its extreme rear position. On those typing units equipped with the new-style TP74255 function-lever comb, which has only 12 slots, insert the motor-stop function lever in the uppermost slot of the vane-frame casting so that the notch in the function lever engages the TP74005 shaft and so that the TP74167 function-lever-bail roller is between the projections on the function lever.

2.10 On typing units equipped with the old-style TP74244 function-lever comb, which has 13 slots, it is necessary to loosen the three comb-mounting screws in order to insert the function lever as described in the preceding paragraph. After the function lever has been installed, tighten the comb-mounting screws.

2.11 Hook one end of the TP82788 spring in the spring hole of the motor-stop function lever and the other end in the uppermost hole in the TP74019 spring plate.

2.12 Remove and discard the retaining nuts from the ends of the two TP1222 screws in the TP74890 left motor-stop contact assembly and mount this assembly by means of the two TP1222 screws on the flat projection of the upper end of the TP74539 send-receive-mechanism plate so that the contact-spring insulator touches and centers with the lobe on the motor-stop function lever.

- 2.13 Insert one end of the TP82633 contact cable in the space between the left end of the vane-frame casting and the left-side frame casting; then route this end of the cable under the selector-mounting plate and along the selector-magnet cable to the TP8884 terminal block.
- 2.14 Tie the TP82633 cable to the selector-magnet cable after forming it so that it clears all moving parts.
- 2.15 Remove the TP8884 terminal block and the TP74946 insulator. Solder the two wires of the contact cable to terminals 9 and 10 of the terminal block and replace the terminal block and insulator. Solder the wires at the other end of the contact cable to the contacts.
- 2.16 The 15N table should be wired to include the fuse-tron as shown on Plan P5.13, given in P30.435.
- 2.17 The mounting of the fuse-tron on the 15N table is shown on SA5.33, given in P30.655.

American Telephone and Telegraph Company

BELL SYSTEM PRACTICES
Teletypewriter Stations

ADDENDUM P36.476
Issue C, 8-31-54
Long Lines Department
Dist. Class. 602.02AC

NO. 15 TELETYPEWRITER
TP 96892 MOTOR CONTROL PARTS
INSTALLATION AND MAINTENANCE

1. GENERAL

1.01 This addendum supplements Section P36.476 by furnishing additional information regarding (1) the treatment of the base power switch in 15-type teletypewriters with remote motor control and (2) to specify new wiring information for the remote motor control parts.

1.02 This issue supersedes Issue B. This addendum is reissued to omit Item 1.01 (3) and to change cross references.

1.05 Change Paragraph 1.05 to read: "When providing remote motor control on No. 15 teletypewriters whose base power switch is accessible through the cover, this power switch should be operative to permit turning power off when replacing ribbon or paper". Note Caution following Paragraph 1.05 of the section.

1.051 Add Paragraph 1.051: "When providing remote motor control on No. 15 teletypewriters whose base power switch is not accessible through the cover but where a power switch is accessible in the table (such as installations having 15J covers and 15J tables), the power switch in the teletypewriter shall be made inoperative in the closed position per appropriate M plans and the switch in the table shall be used to turn off the power when replacing ribbon or paper".

1.052 Add Paragraph 1.052: "In applying the TP 96892 motor control parts to Nos. 15 and 19 teletypewriters the parts shall be installed and adjusted in accordance with Section P36.476 but wired in accordance with Section P90.908 (with the exception noted in Paragraph 1.051 above) instead of using the wiring shown in Section P36.476. The information on fusing for 15C, 15D and 15J tables is contained in Section P90.958, and that for 19 type tables in Section P90.908. The information on fusing for 15P tables is covered temporarily in Section P30.921".