

Teletype Corporation
Skokie, Illinois, U.S.A.

RTTY ELECTRONICS
~~TELETYPE-Sales-Service-Parts~~
PO Box 20101 El Sobrante, Ca.
94820. (510)222-3102
mr_rtty@pacbell.net

Specification 5775S
*Issue 4, Page 1
February, 1963

INSTRUCTIONS FOR INSTALLING THE 152321 MODIFICATION KIT
(WHICH INCLUDES THE 152309 ASSEMBLY AND 152319 MODIFICATION
KIT) ON MODEL 28 CABINETS LAC200** , LAC201** , LAC202** TO
PROVIDE A COPY LIGHTING SYSTEM (SIMILAR TO CABINETS LAC203** ,
LAC204** , LAC205**) THAT OPERATES ON 115 VOLTS DC ALSO
INSTRUCTIONS FOR INSTALLING THE 152310 MARGIN INDICATOR
MODIFICATION KIT FOR USE ON AC OR DC

The following chart pertains to Bell System only.

UNIT	TELETYPE CODE	BELL SYSTEM ONLY
Electrical Service Unit	LESU7	28B
Keyboard	LK4, LK5	28C
Typing Unit	LP4 through LP9	28A, 28A1, 28A2, 28B1, 28C, 28G
Receiving-Only Base	LB4	28B
Cabinet	LAC203**	28C, 28E
	LAC204**	28B, 28D

1. GENERAL

a. The 152321 Modification Kit (which includes the 152309 and 152319 Modification Kit) when installed on a Teletype LAC200** , LAC201** , or LAC202** , Cabinet provides the electrical equivalent of an LAC203** , LAC204** , LAC205** Cabinet. This consists of the 152309 Light Shield Assembly for copy illumination, the 152319 Modification Kit which provides more electrical terminal connections for connecting external equipment, and additional parts that are required for conversion of a margin indicator light. The LAC203** , LAC204** , LAC205** Cabinets, or cabinets equipped with the 152321 Modification Kit operate with the following units.

Electrical Service Unit	LESU7
Keyboard	LK4, LK5
Typing Unit	LP4 through LP9
Receiving-Only Base	LB4

b. The 152310 Modification Kit provides a 60 volt AC or DC margin indicator lamp which will light when the typing unit type box has reached a portion on the right hand side of the platen determined by the setting of the margin indicator cam disk.

c. For information on the modification kit which provides an AC Copyright system see Specification 5853S.

d. The 152321 Modification Kit consists of:

2	3438	Washer, Flat	1	152309	Light Shield Assembly
2	3629	Washer, Lock	1	152319	Modification Kit (Refer to Paragraph 1.e.)
2	6745	Screw			
1	121245	Clamp, Cable	1	153400	Lamp - 60V

e. The 152319 Modification Kit consists of:

4	1268	Screw	2	153466	Terminal Block Cover
8	2191	Lock Washer	2	153467	Insulator
4	6345	Nut	1	153468	Left Insulator
8	7002	Flat Washer	1	153469	Strip w/screws - Right
2	153459	Terminal Block Assembly	1	153470	Right Insulator
4	153465	Nut	1	153471	Strip w/screws - Left

f. The 152310 Modification Kit consists of:

1	2191	Lock Washer	1	153400	Lamp
1	3598	Nut 6-40	1	153487	Cable Assembly
1	80444	Screw <i>151630</i>			

g. For parts referred to and for parts ordering information refer to Teletype Model 28 Printer Parts Bulletin 1149B.

2. INSTALLATION

Refer to Paragraph 2.b. when installing the 152309 Modification Kit only, to Paragraph 2.c. when installing the 152319 Modification Kit only.

a. The 152321 Modification Kit

(1) Remove the Keyboard and Typing Unit from the Cabinet. Remove the 151436 Terminal Block Covers.

(2) Disconnect all wires from the cabinet terminal blocks.

(3) Remove the Electrical Service Unit.

(4) Remove the three 118759 Cabinet Terminal Blocks and their 151435 Insulators.

(5) Remove, from the Cabinet, the applicable lamp parts listed below. Retain the cable guide wire in place.

(a) Fluorescent Lamp Parts:

1	6745	Screw (10-32 x 1/2 Hex.)	2	1179	Screw
1	121243	Cable Clamp	1	118119	Starter Socket
2	110437	Spring	1	3598	Nut
1	151544	Light Shield	1	2191	Lock Washer
1	102617	Fluorescent Lamp	1	76099	Washer
2	7002	Flat Washer	2	78287	Spacing Collar
2	2191	Lock Washer	1	151531	Starter Plate
2	1263	Screw	1	76099	Washer
2	76099	Washer	1	78103	Screw
2	2191	Lock Washer	2	3639	Lock Washer
2	80342	Screw	2	6810	Screw
1	151550	Cable Assembly	1	151529	Ballast Plate
1	102620	Starter			

(b) Six Volt Incandescent Lamp Parts (Non-Bell):

1	151983	Shield	2	80444	Screw
2	151982	Lamp	1	151981	Cable Assembly
1	151990	Switch Bracket	1	8254	Cable Clamp
2	3598	Nut	1	3639	Lock Washer
2	7002	Washer	1	6745	Screw
2	2191	Lock Washer	1	151984	Transformer Assembly

(6) Install the following items, contained in the 152319 Modification Kit, in the cabinet in the sequence shown.

1	153468	Insulator-Left	2	153467	Insulator
1	153471	Strip w/screws-Left	2	153459	Terminal Block Assembly
2	1268	Screw	4	7002	Flat Washer
1	153470	Insulator-Right	4	2191	Lock Washer
1	153469	Strip w/screws-Right	4	153465	Nut
2	1268	Screw			

(7) Install the 152309 Light Shield Assembly in the dome of the Cabinet as follows:

(a) Mount the 153486 Bracket (part of the 153474 Copy Light Cable Assembly) in the dome of the Cabinet, immediately to the left of the copy window. Use the 6745 Screw remaining in the 151513 Copy Window Retainer to mount the bracket. Use the 6745 Screw, 3639 Lock Washer, and 3438 Flat Washer in the position vacated by the 78103 Starter Socket Mounting Screw (not necessary when converting from six volt systems).

(b) Mount the lamp sockets to their cabinet brackets using the two 80444 Screws, 2191 Lock Washers, 7002 Washers, and 3598 Nuts furnished. Locate the cabinet mounting bracket between the 151540 Lampholder (with the 80444 Screw located in the oblong hole) and the 7002 Washer.

(c) Route the cable back along the front and the right sides of the dome, and tie it to the 151536 Wire Cable Guide.

(8) Remove the 121245 Cable Clamp, 6810 Screw, and 3639 Lock Washer which mount the margin indicator cable (if used) to the right hinge of the cabinet.

(9) Route the copy light cable (and margin indicator cable, if used) behind the right hinge of the cabinet.

(10) Secure the copy light cable to the hinge with the 121245 Clamp, 6745 Screw, 3639 Lock Washer, and 3438 Flat Washer. If a margin indicator is used, secure both cables to the hinge with the same cable clamp. Resistor for margin lamp is part of Electrical Service Unit LESU7.

(11) Install the 153400 Copy Lamps in their sockets. Install the third 153400 Lamp in the margin indicator socket, if used. Otherwise, retain it as a spare copy lamp.

(12) Slip the 151983 Light Shield onto the copy lamp sockets, then turn the 151983 Light Shield to attain desired illumination.

(13) Make the following connections on the upper row of the cabinet terminal block (allow sufficient slack in cable near the terminals):

(a) For the 153474 Cable Assembly (Part of 152309 Light Shield Assembly) wire as follows:

- (1) Yellow (y) wire to No. 37 terminal
- (2) Orange (o) wire to No. 38 terminal
- (3) White (w) wire to No. 40 terminal

(b) For the 153487 Cable Assembly (part of 152310 Margin Indicator Modification Kit) wire as follows, if used:

- (1) Red (r) wire to No. 36 terminal
- (2) White (w) wire to No. 40 terminal

(14) Install the two 153466 Covers, four 7002 Washers, 2191 Lock Washers, and 6345 Nuts to cover the terminal blocks.

b. 152309 Light Shield Assembly

- (1) Follow procedure in Paragraphs 2.a.(1),(2),(3),(5),(7) through (13) inclusive.

c. 152319 Modification Kit

- (1) Follow procedure in Paragraph 2.a.(2),(3),(4),(6), and (7).

d. 152310 Modification Kit

(1) Mount the 151540 Lampholder (part of the 153487 Cable Assembly) on the bracket adjacent to the lower right-hand translucent button in the dome of the cabinet using the 80444 Screw, 2191 Lock Washer and 3598 Nut.

(2) Route the cable back along the right side of the dome and tie to the 151536 Cable Guide.

(3) Route the cable behind the right hinge of the cabinet and secure both copy lighting and margin indicator cables to the hinge with the 121245 Cable Clamp.

(4) Place the 153400 Lamp in its socket and make the Indicator Lamp adjustment.

(5) Make connections to the cabinet terminal blocks as shown in wiring diagram 2876WD.

3. ADJUSTMENTS

For adjusting procedure refer to standardized adjustment information for other than Bell System Bulletin 217B.

Check the following:

a. Copylamp

b. Indicator Lamp

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TELETYPE CORPORATION
SKOKIE, ILLINOIS U.S.A.

ADDENDUM TO SPECIFICATION 5775
ISSUE 4, PAGE 2
FEBRUARY, 1963

MODIFICATION KIT: 152310

PART NUMBER 151630-SCREW-1
REPLACES 80444-SCREW-1

PRINTED IN U.S.A.