

INSTRUCTIONS FOR INSTALLING THE 305053 MODIFICATION KIT  
TO CONVERT THE MODEL 28 KEYBOARD LAK4 TO MODEL 28 LAK 44

The chart below pertains to Bell System only.

TELETYPE CODE	DESCRIPTION	BELL CODE
LAK4	Keyboard (LAK)	28B
LAK44		28B1

1. GENERAL

1.01 The 305053 modification kit provides the parts necessary to convert a Model 28 Keyboard LAK4 to a Model 28 Keyboard LAK44.

1.02 The resultant LAK44 keyboard is the same as the LAK4 keyboard except that the BD (BID) and AL (ALARM) pushbutton indicator switches are mounted on the right side of the keyboard for use with the 83B3 System. The pushbutton with BD (BID) imprinted on it is used as an indicator light only, and the switch portion is not wired for operation.

1.03 The 305053 kit consists of:

4	117608	Nut	1	170419	Spacer
2	119634	Button	2	171559	Lamp
1	151391	Label	4	179170	Screw
2	153000	Plate	1	304610	Plate
4	154197	Button	1	304613	Cable
1	170401	Frame	1	315525	Plate

1.04 For parts ordering information and parts referred to other than those in the kit, see Teletype Parts Bulletin 1169B.

2. INSTALLATION

Note: Refer to Teletype Bulletin 1169B.

2.01 Remove the four special screws which secure the two 154198 plastic windows and the 151391 label sets. Retain one 154198 window and two 154202 screws. Remove and retain two 151632 screws, 2191 lockwashers, and 7002 flat washers (underneath the 154110 hood) which secure the hood to the 154203 mounting brackets. Remove the four 151659 screws and 81774 flat washers which secure the hood to the 163585 and 163586 mounting brackets. Remove and retain the hood. Retain two 151659 screws and 81774 flat washers.

2.02 Remove and retain the two 151223 shoulder screws retaining the 151045 spacebar. Retain the spacebar.

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- 2.03 Remove and retain one 151659 screw, 2191 lockwasher, 8330 flat washer, and two 151631 screws, 2191 lockwashers, and 7002 flat washers which hold the 154111 keytop guide to the 154212 frame. Remove and retain two 154204 nylon grommets from the 154111 keytop guide. Discard the 154111 keytop guide and one 7002 flat washer.
- 2.04 Remove and retain the two 151630 screws and 2191 lockwashers, which retain the 154119 bracket to the 154212 frame. Retain the 154119 bracket.
- 2.05 Remove and retain the four 151630 screws and 2191 lockwashers that hold the 154212 frame to the 163585 and 163586 brackets. Remove and retain the three 151722 screws and 2191 lockwashers that hold the 163511 upper seal plate to the 154212 frame. Retain the 163511 upper seal plate. Discard the 154212 frame.
- 2.06 Assemble the 170401 frame with four 151630 screws and 2191 lockwashers in the outer mounting holes of the 163585 and 163586 brackets. Assemble the 170419 spacer with one 151631 screw and 2191 lockwasher in the top hole of the 163585 bracket (right side). Assemble the 163511 upper seal plate to the 170401 frame with three 151722 screws and 2191 lockwashers.
- 2.07 Assemble the 154119 bracket to the frame using two 151630 screws and 2191 lockwashers retained in 2.04.
- 2.08 Assemble four 154197 plug buttons in the unused holes of the 315525 keytop guide and secure with four 117608 speed nuts. Insert the two 154204 nylon grommets into the square holes on the left side of keytop guide. Assemble the keytop guide to the 170401 frame (positioning the keytops through the proper holes). Secure with one 151659 screw, 2191 lockwasher, 8330 flat washer, and one 151631 screw, 2191 lockwasher, and 7002 flat washer.
- 2.09 Assemble the 151045 spacebar with two 151223 shoulder screws retained in 2.02.
- 2.10 Route the 304613 cable assembly inside the right side and rear of the base and solder to the keyboard connector per 3302WD.
- 2.11 Assemble the 304902 (old style) or 321767 (new design) pushbutton switch (BD) in the hole marked KS and 304903 (old style) or 321768 (new design) pushbutton switch (AL) in the hole marked AR on the 304610 switch plate. Assemble two 171559 lamps in the pushbuttons.
- Note: The 304902 and 304903 (old style) switches must be assembled so that the pushbutton will go to the bottom of its full travel to insure proper contact operation. Turn the two knurled nuts down as far as possible and tighten down the hex nut from the back of the switch plate. The 321767 and 321768 (new design) switches should be installed with the hex nut, internal lockwasher and nonturn key washer under the plate. (Discard the nonturn key washer if the plate mounting holes are not provided with slots.) Tighten both hex nuts.
- 2.12 Assemble the switch plate on the right side using two 179170 screws. Press two 119634 plug buttons into the two lower holes.

2.13 Assemble the 154110 hood and secure to the 163586 bracket (left side) with two 151659 screws and 81774 flat washers, to the 163585 bracket (right side) with two 179170 screws and to the 154203 brackets (underneath hood) with two 151632 screws, 2191 lockwashers, and 7002 flat washers.

2.14 Assemble the 151391 label set and 154198 window to the left side of the keytop guide with two 154202 screws.

2.15 Replace the Bell System Code Plate 28B with Code Plate 28B1 or Code Plate 28E with Code Plate 28E1.

### 3. ADJUSTMENTS AND LUBRICATION

3.01 For standard adjustments and lubrication procedure of related equipment, refer to Teletype Bulletin 250B. (Bell System refer to standardized information.)

3.02 The 305053 kit has no adjustments (other than that contained in the note after Paragraph 2.11) or lubrication procedure.

