



Installation and Maintenance  
Procedures

INSTALLATION

A.E. Co., Type 86A Push Button Telephone Adapter

1. GENERAL

1.01 The 86A adapter (See Fig. 1) provides single line telephone sets, such as wall handsets or suspension handsets, with push button telephone features.



Fig. 1 Orientation View of the A.E. Co., type 86A Push Button Telephone Adapter

1.02 The 86A adapter is equipped with a hold button, 5 locking pick-up buttons (the last three buttons may be converted to non-locking signal buttons), and 5 indicator lamps.

1.03 The 86A adapter may be used with either 10A or 10A1 multi-line telephone systems (See paragraph 3.02).

2. INSTALLATION

2.01 The wiring connections for the 86A adapter are shown in Fig. 3. The 86A adapter can be set on a desk or it may be wall mounted (in the early version of the 86A adapter the cover mounting screws were placed through the base of the adapter, this prevented wall mounting this unit). When it is wall mounted, the mounting cord may be removed and the inside wiring cable connected directly to the internal terminal strip.

3. MODIFICATIONS

3.01 Remove the push button retaining bracket. Remove the cap from the push button to be converted. Remove the push button shaft set-screw and locking plate (see Fig. 2). Tape the locking plate to the base of the unit; it is necessary to replace this plate if the push button is ever reconverted. Rotate the push button shaft 180 and replace the set screw. Replace the push button cap and retaining bracket. See Table A for necessary wiring changes.

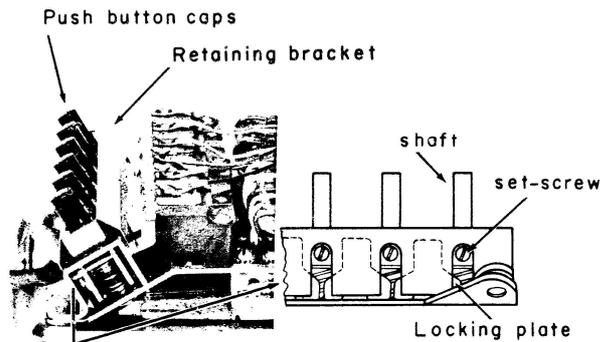
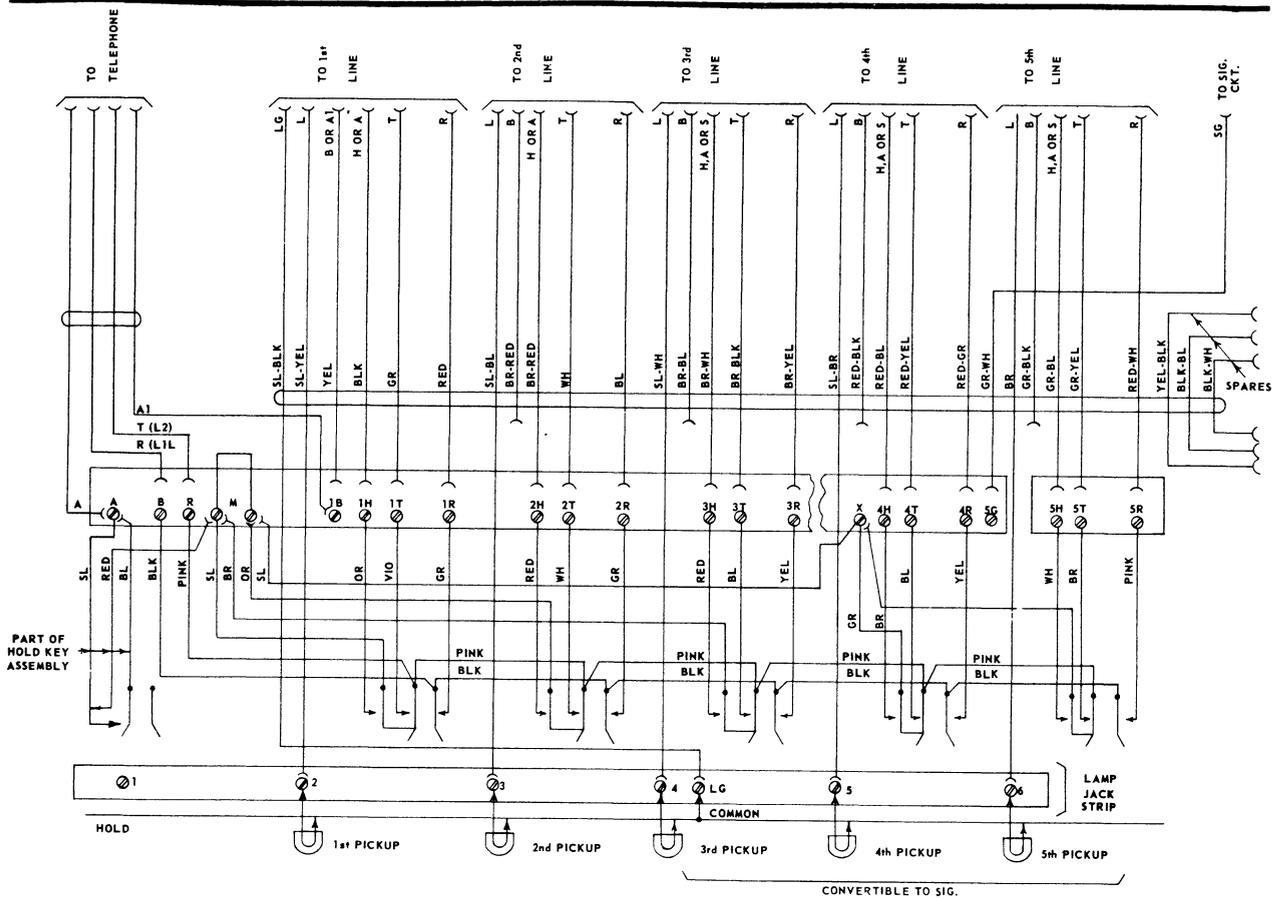


Fig. 2 86A Adapter Push Button Assembly to Show Location of Parts.

Pick Up Keys	Leads to be Changed					
	Br		Gr		Sl	
	From	To	From	To	From	To
5th			X	SG		
4th					M	SG
3rd	M	X			M	SG

Table A - Lists Pick-Up Push Button and Wiring Changes Required to Convert Pick-Up Push Button to Signal Push button

3.02 Figure 3 shows the 86A adapter wired for use with 10A1 relay equipment. By making the wiring changes indicated in Table B the 86A adapter may be used with 10A relay equipment. An 86A adapter wired for 10A relay equipment may be modified for use with 10A1 equipment by reversing the changes in Table B.



CHANGE	"A" LEAD	"R" LEAD	RED	BLUE
FROM TERM.	A	R	M	A
TO TERM.	1B	A	R	M

Table B - Wiring Changes Required for Operation with 10A Multi-line Telephone Systems.

Fig. 3. 86A Adapter Circuit Diagram (Wired for 10A1 Multi-line Telephone System)