Installation and Maintenance
Procedures

INSTALLATION

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

1. GENERAL

1.01 This practice replaces Section 55, Part 606 in the SEIRP binders.

Fig. 1. Type 86 Push Button Telephone

1.02 The Type 86 telephone set is equipped with a hold button and 5 pick-up buttons, the last three pick-up buttons may be converted to signal buttons (See paragraph 3.04).

1.03 Two different transmission circuits have been used with the Type 86 telephone. The first two letters of the telephone designation number (See Fig. 2) identifies the transmission circuit used:

a. If the first two letters are NA, the circuit is equipped with an external line compensating rheostat (See Figure 5 for circuit drawing).

b. If the first two letters are NB, the circuit is equipped with a self-compensating network (See Fig. 6 for circuit drawing).

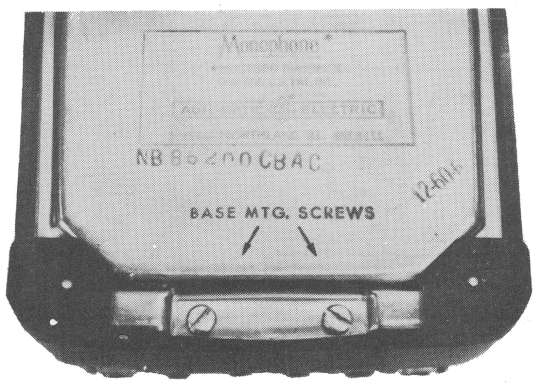


Fig. 2. Base of Type 86 Telephone showing Location of Designation Number

2. INSTALLATION

2.01 The line cord color code and conductor assignment is included in the push button assembly circuit drawing (Fig. 4).

2.02 The Type 86 telephone employs a #2 buzzer as an audible signal. When a bell is requested by the customer, the buzzer may be replaced with a straight line ringer.

3. MODIFICATIONS

3.01 The Type 86 telephone set is wired for use with 10A1 multi-line telephone systems. This telephone set may be used on 10A multi-line systems by moving:

A. White lead from N to 1B.
B. Black lead from R to N.
C. Red lead from M to R.
D. Blue lead from N to M.

3.02 Type 86 telephone sets which have been modified for use with 10A multi-line telephone systems may be used with 10A1 systems by reversing the changes shown above.

3.03 The last three push buttons of the Type 86 telephone set may be converted from locking buttons to non-locking buttons.

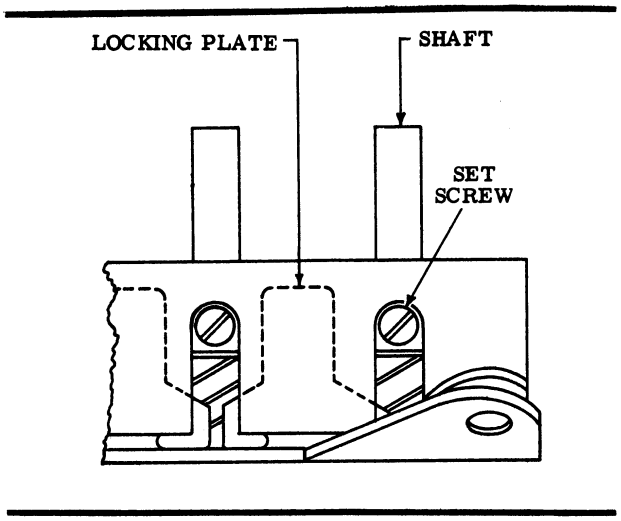


Fig. 3. Push Button Assembly

3.04 The conversion is accomplished by removing the set-screw and locking plate (See Fig.3 for location of parts). Rotate the shaft 180° and replace the set-screw. Tape the removed locking plate to the base of the telephone set, this plate will be required if the push button should be reconverted. Make the necessary wiring changes shown in Table A.

Convert P.B. No.	Br		Yel		Gr	
	From	To	From	To	From	To
6					X	SG
5 and 6			M	SG		
4, 5 and 6	M	X	M	SG		

Table A. Pick-up to Signal Wiring Changes

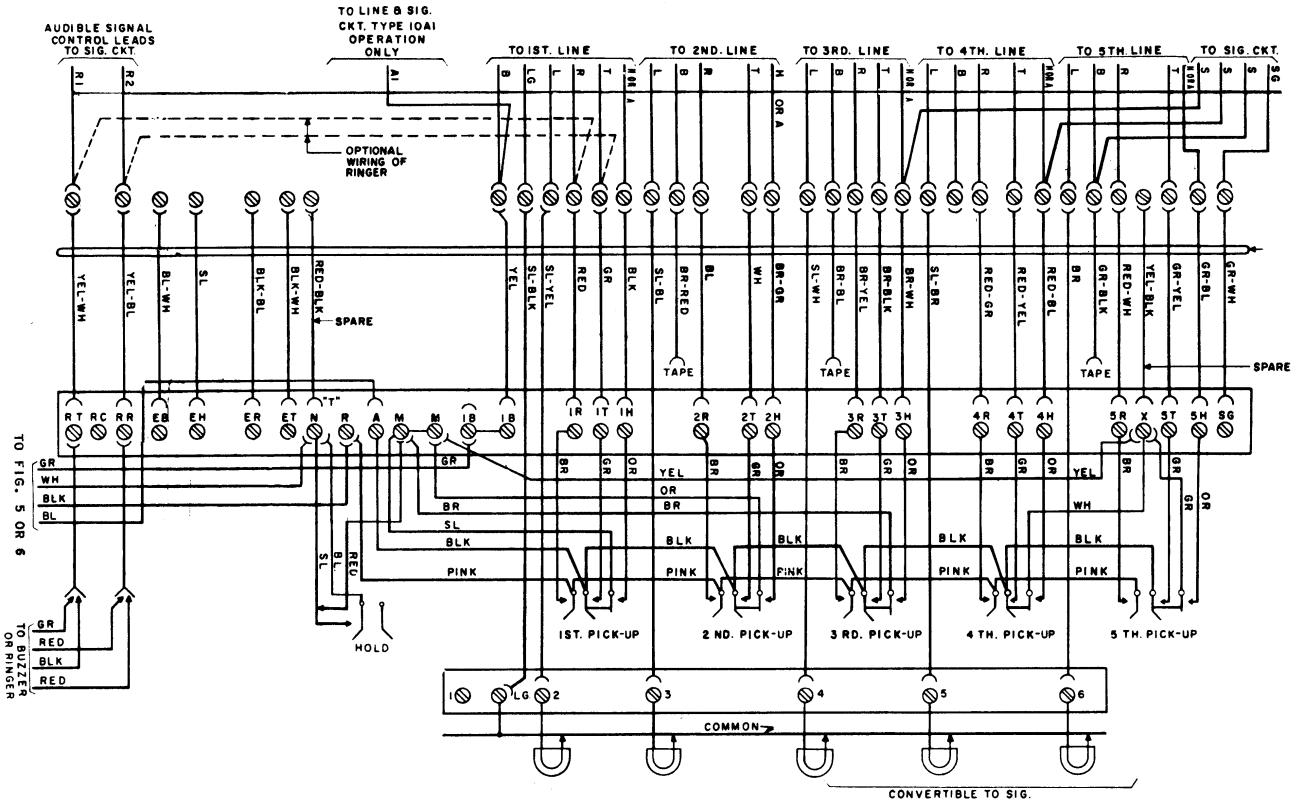
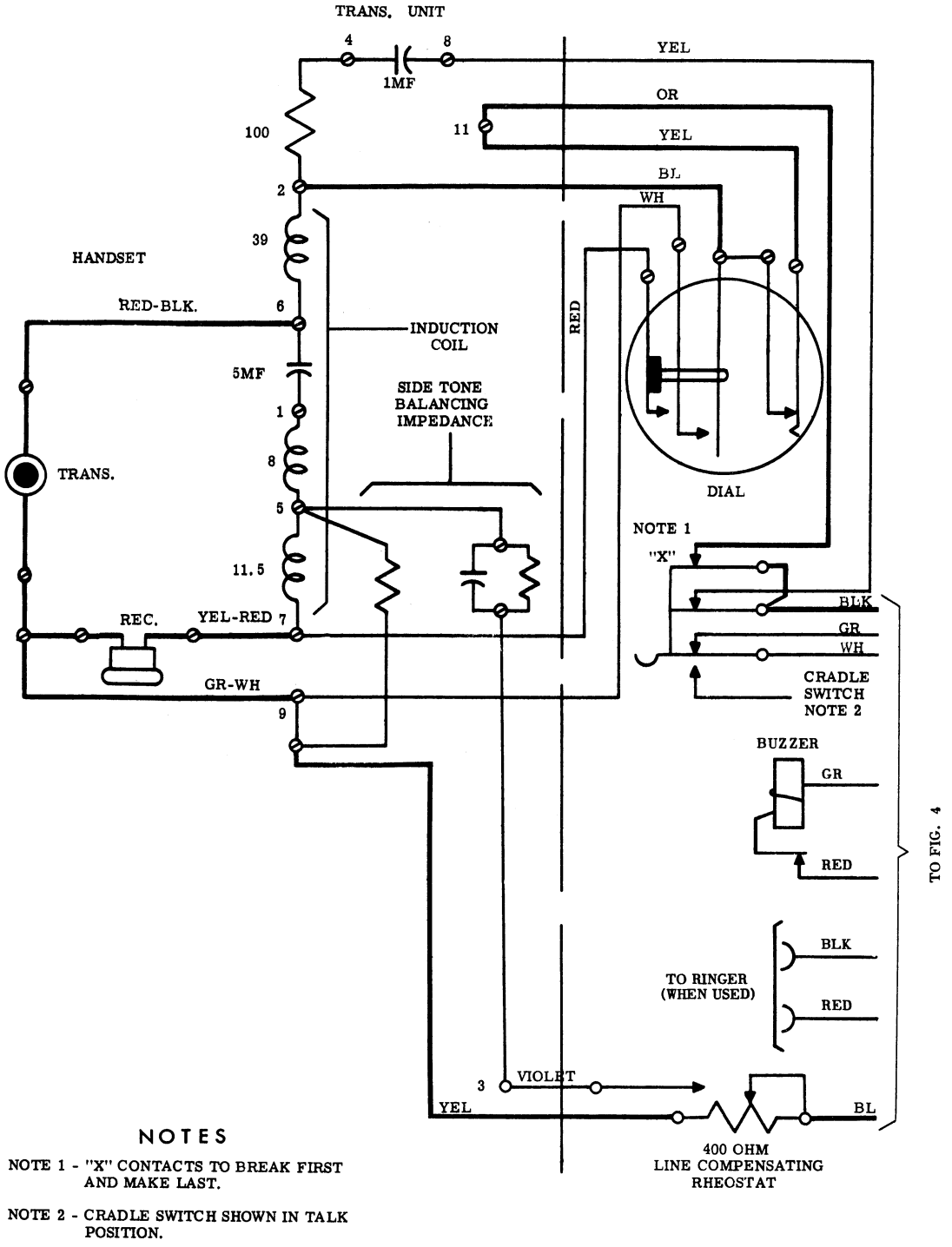


Fig. 4. Type 86 Push Button Assembly Circuit Diagram



NOTES

NOTE 1 - "X" CONTACTS TO BREAK FIRST AND MAKE LAST.

NOTE 2 - CRADLE SWITCH SHOWN IN TALK POSITION.

Fig. 5. Type 86 Telephone Circuit Diagram (Manually Adjusted)

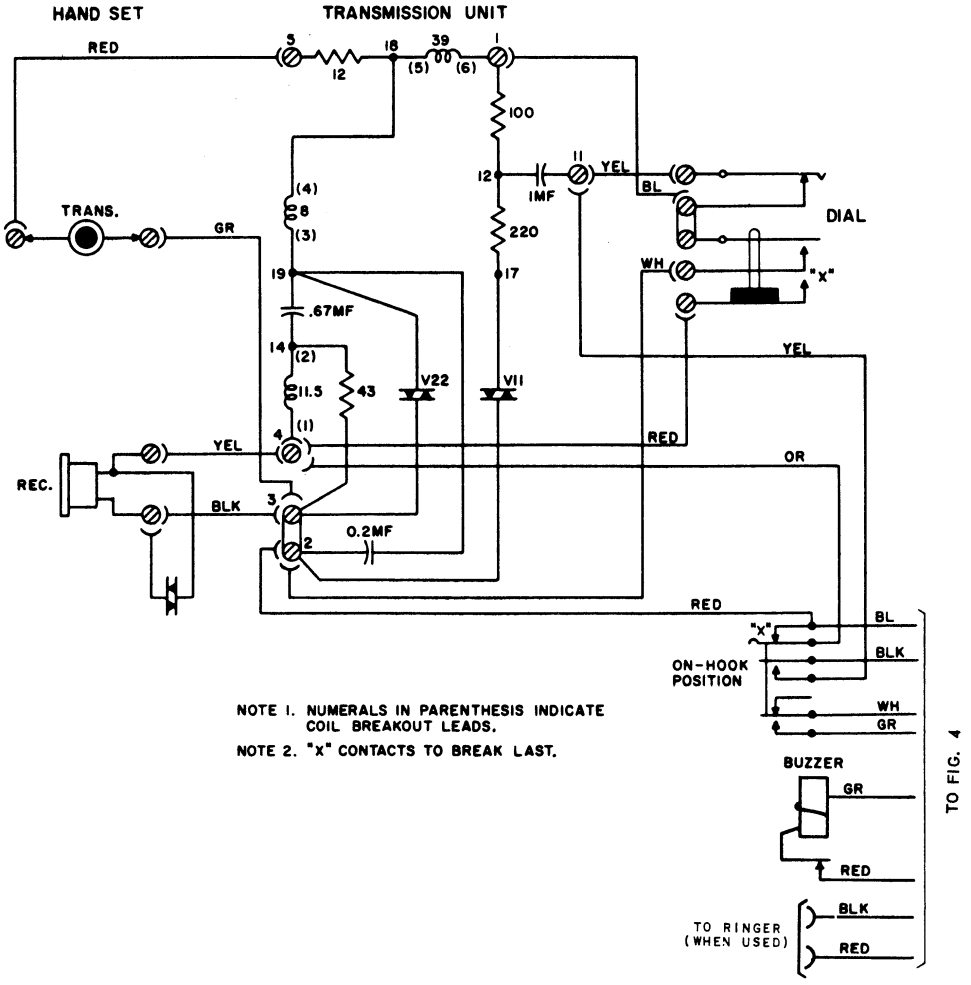


Fig. 6. Type 86 Telephone Circuit Diagram (Self-Compensating)