

N.E. CO. SINGLE-COIL COIN RELAY
SHOP PROCEDURE — INSTALLATION

1. GENERAL

1.01 This section describes the installation of the Northern Electric Co. P11E964 relay and hopper assembly in coin telephone sets manufactured by A.E. Co. under the trade name "Autelco Paystation". The assembly includes a P10E786 single-coil coin relay for prepay service which is provisionally accepted as System standard for replacement purposes in situations requiring extended loop operation or increased hopper capacity over that afforded by the present A.E. two-coil relay and hopper. The N.E. Co. unit will be superseded by an A.E. Co. single-coil relay and hopper assembly when available.

1.02 Because the circumstances which merit the substitution of a single-coil relay are usually associated with a station location in transmission zones 5 or LL, the N.E. Co. relay and hopper assembly should be installed only in coin telephone sets of the LPB80 or LPA90 series, which have self-compensating transmission circuit components. Instructions are given for connection in models LPB82-55 and LPA92-55.

1.03 Figure 1 shows a relay and hopper assembly of domestic manufacture. Slight variations in construction may be noted in the Canadian product.

2. INSTALLATION

2.01 Prepare the telephone set for installation as follows:

- (1) Unlock the upper housing and remove it.
- (2) Unlock the cash compartment door, if still in place, and remove it and the coin receptacle.
- (3) Snap off the wire clip which retains the acrylic shield to the standard two-coil relay, and remove the shield. Set aside the shield and clip for return to stock.
- (4) Disconnect the spade-ended leads terminated at the coin relay springs, and at the rear of the collect coil spoolhead.
- (5) Remove the two screws which attach the coin relay assembly to the mechanism base. Carefully withdraw the coin relay assembly from the mechanism base. Set aside the assembly and the mounting screws for readjustment and reuse in other instruments.

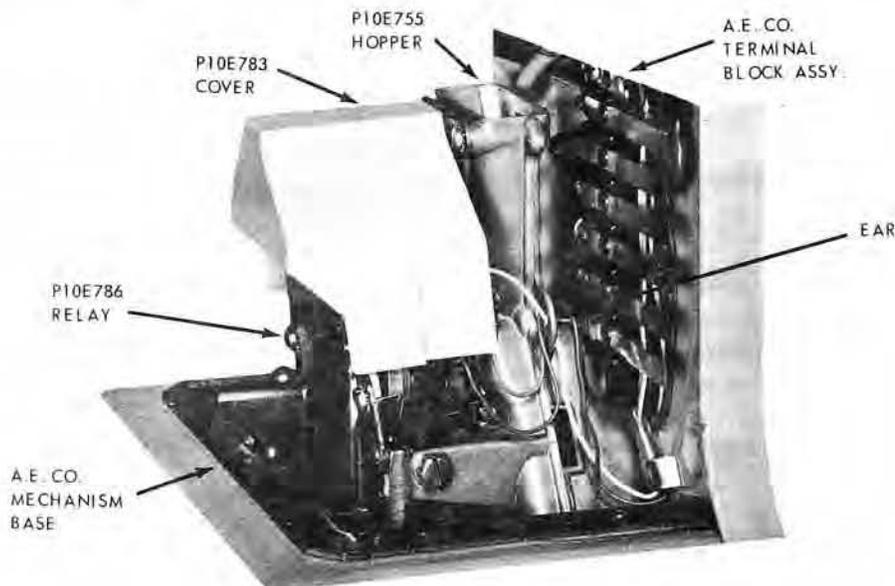


Figure 1. P11E964 Relay and Hopper Assembly, Installed in A.E. Co. Coin Telephone Set.

- (6) Using a stub-handled screw driver inserted into the cash compartment, remove the three 8-36 x 1/4" round-head screws, accessible through holes in the receptacle mounting rail assembly (see Figure 2), which fasten the coin hopper to the mechanism base. Lift the hopper from the base and replace the screws in the hopper for storage before returning the hopper assembly to stock.

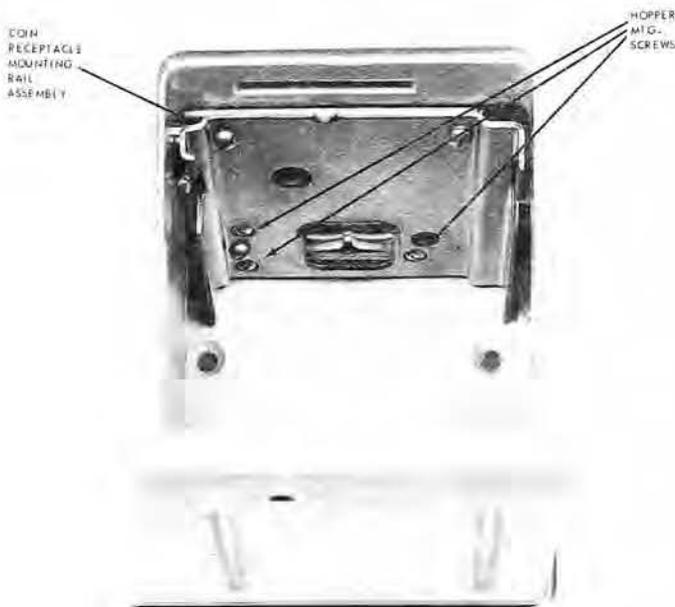


Figure 2. Location of Hopper Mounting Screws.

- (7) Using a narrow-bladed cabinet screw driver, remove the lower of two screws which fasten the terminal block assembly to the back plate. Set aside the screws for return to stock and loosen the upper screw a quarter-turn, sufficient to permit the lower edge of the terminal block to be moved to the right approximately a quarter of an inch.

2.02 Install the P11E964 relay and hopper assembly as follows:

- (1) Should the relay and hopper assembly have been purchased as part of a complete P10E683 mechanism unit, remove

the three 8-32 x 1/4" round-head screws which fasten the P10E755 hopper to the mechanism base, and lift the relay and hopper assembly off the base. Retain the screws and return the mechanism base to stock.

- (2) If the relay and hopper assembly was purchased by itself, three 8-32 x 1/4" round-head screws will be required for mounting. Using a short (less than four-inch) screw holder or retaining-type screw driver inserted into the cash compartment, mount the P10E755 hopper to the mechanism base of the A.E. Co. coin telephone set with these three screws, inserted through clearance holes in the receptacle mounting rail assembly (see Figure 2). Start all three screws before tightening any of them. Since the hopper supports the weight of the coin relay, it must be securely fastened to the mechanism base.
- (3) Remove the P10E783 cover from the top of the coin relay, and thread the three leads which provide the coin relay connections through the oval hole provided for that purpose on an ear cast onto the right side of the hopper.
- (4) Push the bottom of the terminal block assembly as far to the left as it will go (it interferes slightly with the coin hopper) and tighten its upper mounting screw securely.
- (5) Connect a short length of red wire between terminals 1 and 3 of the coin relay mechanism.
- (6) On LPB82-55 and LPA92-55 models, connect the white lead to relay terminal G, the green lead to terminal 2, and the red lead to terminal 3 in addition to the strap placed in (5), above. Dress the leads back toward the hopper in downward loops, away from moving parts of the relay assembly.
- (7) If test facilities are available, conduct tests as set forth in the section in the 476-202 series entitled "N.E. Co. Single-Coil Coin Relay — Maintenance".
- (8) Snap the styrene cover in place on top of the relay assembly.
- (9) Replace the upper housing and lock it.
- (10) If 2A coin receptacles are used, insert one into the cash compartment, replace the door, and lock it.