

**BELL SYSTEM PRACTICES**  
Teletypewriter Stations

**SECTION P31.308**  
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## **INSTALLATION OF TP83973 FILTER UNIT FOR MAGNET CONTACTS OF 14A PERFORATOR**

### **1. GENERAL**

1.01 This section furnishes information for the installation of the TP83973 filter unit on the 14A perforator. The function of this filter is to suppress radio frequency induction from the perforator magnet contacts.

1.02 This section is reissued to include a parts list of the TP83973 filter unit and to correct the wiring of the 200 ohm resistor which is in series with the 0.5 mf condenser.

1.03 The TP83973 filter unit consists of the following parts:

- 1—TP83972 bracket
- 2—TP81822 (W.E.Co. 67F) retard coil
- 1—TP81825 condenser (.01 mf)
- 4—TP75750 washer (Bakelite)
- 2—TP2254 washer
- 2—TP80204 screw
- 2—TP83408 screw
- 2—TP3640 lock washer
- 1—TP91097 filter unit lead (3-1/2" long)
- 1—TP91098 filter unit lead (3" long)

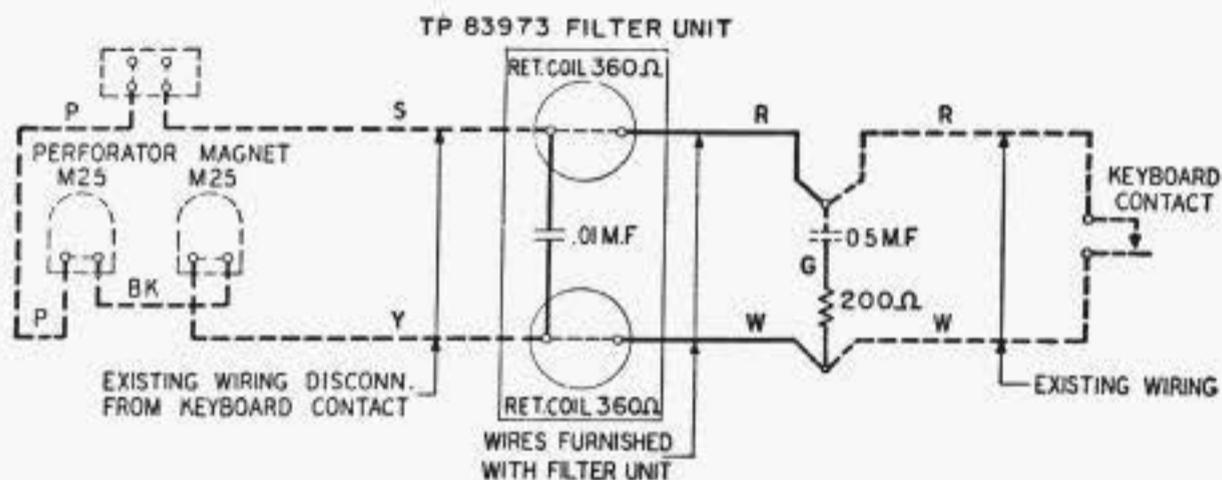
### **2. PROCEDURE**

2.01 Install the TP83973 filter unit as follows:

- (1) Remove the two TP125164 condenser strap screws which mount the magnet contact spark killer condenser (0.5 mf) in the base of the perforator and discard the TP125013 plate which holds the condenser in place.

- (2) Using the two TP125164 screws, mount the TP83973 filter unit so that the TP83972 bracket takes the place of the condenser strap and so that the coils are positioned to the left of the condenser.

Fig. 1



2.02 Referring to Fig. 1, connect the filter unit as follows:

Fig. 1

- (1) Disconnect only the slate and yellow wires connected to the punch magnet contacts.
- (2) Pull the slate and yellow wires beneath the base of the perforator and connect them to the filter unit coil terminals.
- (3) Connect the red filter-unit-coil wire to the 0.5-mf condenser terminal.
- (4) Connect the white filter-unit-coil wire to the 200-ohm resistor terminal.
- (5) Check the wiring to see that it is in accordance with Fig. 1.

Fig. 1

Fig. 1

Fig. 1