

**BELL SYSTEM PRACTICES**  
Teletypewriter and Manual  
Telegraph Station and P.B.X.  
Installation and Maintenance

**SECTION P31.322**  
Issue 1, March, 1940  
AT&T Co Standard

## **INSTALLATION OF 92230M FILTER UNIT FOR LINE RELAY OF NO. 26 TELETYPEWRITER**

### **1. GENERAL**

1.01 This section furnishes information for the installation of the 92230M Filter Unit for the line relay of the No. 26 Teletypewriter. The function of this filter unit is to suppress radio frequency induction from the contacts of the line relay.

1.02 The 92230M Filter Unit consists of the following parts:

- 1 Filter Unit
- 2 8543M Screws
- 2 2191M Lock Washers
- 1 74614M Resistor

### **2. PROCEDURE**

**Installation of 92230M Filter Unit on No. 26 Teletypewriter**

2.01 To install the 92230M Filter Unit proceed as follows:

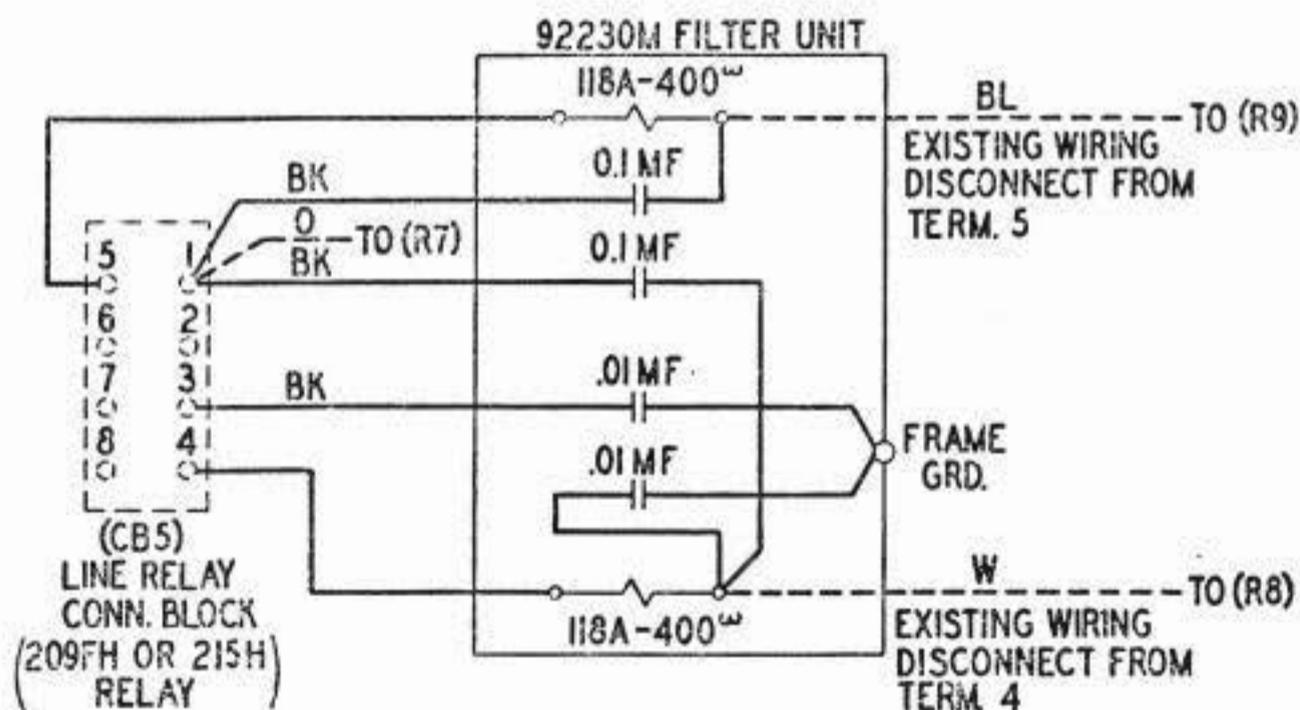
- (1) Remove the screws which secure the line relay mounting assembly to the base and position the relay mounting assembly to provide access to the terminals.
- (2) Remove the wires from terminals 4 and 5 of the relay connecting block.
- (3) Remove the wires from the 3000-ohm resistor (third up from the bottom) taking care to note the wires associated with each terminal. Replace the resistor just removed with the 74614 (2600 ohm) resistor furnished, positioning the new resistor so that the longer section (2000 ohm) is toward the bracket.

- (4) Connect the wires removed from the 3000-ohm resistor on the corresponding terminals of the 2600-ohm resistor.
- (5) Before mounting the filter unit see that the wire from the lower terminal of the outermost resistor clears the lower terminal of the inner resistor by at least 1/8 inch.
- (6) Mount the filter unit on the inside vertical surface of the line relay bracket using the two holes near the front edge of the bracket. Secure the filter unit with the two 8543M screws and 2191M lock washers furnished.

Note: Some of the early relay brackets were shipped without the filter mounting holes. In these instances, when a filter is required it will be necessary to drill two .144" holes (No. 27 drill). The holes should be on a line 1/4" from the front vertical edge of the bracket. The lower hole should be 7/8" from the bottom surface of the bracket. The upper hole should be 7/8" above the lower hole.

2.02 Make the connections to the filter unit using the following procedure: (See Fig. 1.)

- (1) Connect the lower terminal of the front resistor of the filter unit to terminal 4 of the relay connecting block.



92230M LINE RELAY FILTER FOR NO. 26 TELETYPEWRITER

P31.322

Fig. 1

- (2) Connect the wire removed from terminal 4 to the upper terminal of the front resistor. Make this connection as short and direct as possible.
  - (3) Connect the upper terminal of the rear resistor to terminal 5 of the relay connecting block. Make this connection short and direct as possible.
  - (4) Connect the wire removed from terminal 5 to the lower terminal of the lower resistor.
  - (5) Connect the black lead from the rear .01 mf. condenser to terminal 3 of relay connecting block.
  - (6) Connect the common lead from the .1 mf condenser to terminal 1 of the relay connecting block.
- 2.03 Replace line relay mounting assembly.