

**TYPE N AND ON2 CARRIER TELEPHONE SYSTEMS  
DEVIATION REGULATOR  
REMOVING UNITS FROM SERVICE  
REMOVING A CONTROL UNIT FROM SERVICE**

This test describes the method for removing a deviation regulator control circuit unit from service without affecting transmission on the high-frequency line. Each control circuit unit controls the operation of a thermistor in a shape network. It is necessary to take over control of the shape network thermistor before a control circuit unit or the tubes in a control circuit unit amplifier can be removed. This is accomplished by adjusting the 3AF test set to provide the proper amount of regulating current to the shape network thermistor.

**APPARATUS:**  
3AF Test Set

STEP	PROCEDURE
	The following tests and adjustments are all made on the 3AF test set unless otherwise stated. Fig. 1 illustrates the procedure which is described below.
1	Turn the rotary switch to the REG CUR position.
2	Operate the toggle switch to the 40 MA position.
3	Insert the plug (P1) into the TST jack associated with the control circuit unit to be removed from service. See Fig. 1(b).
4	Read the current on the 40 MA scale. If necessary operate the toggle switch to the 10 MA position to obtain the reading. Record the reading.
5	Adjust the CAL potentiometer to the approximate value of current read in Step 4.
6	Insert the plug (P2) into the TST PWR jack located on the front of the deviation regulator filter and network panel.
7	Turn the rotary switch to the ALIGN position. See Fig. 1(c).
8	Adjust the CAL potentiometer for the meter indication recorded in Step 4.
9	Completion of the above procedure transfers control of the thermistor to the test set and the meter reads the current being fed from the test set to the thermistor. The control circuit is now independent of the regulator as shown in Fig. 1(d).

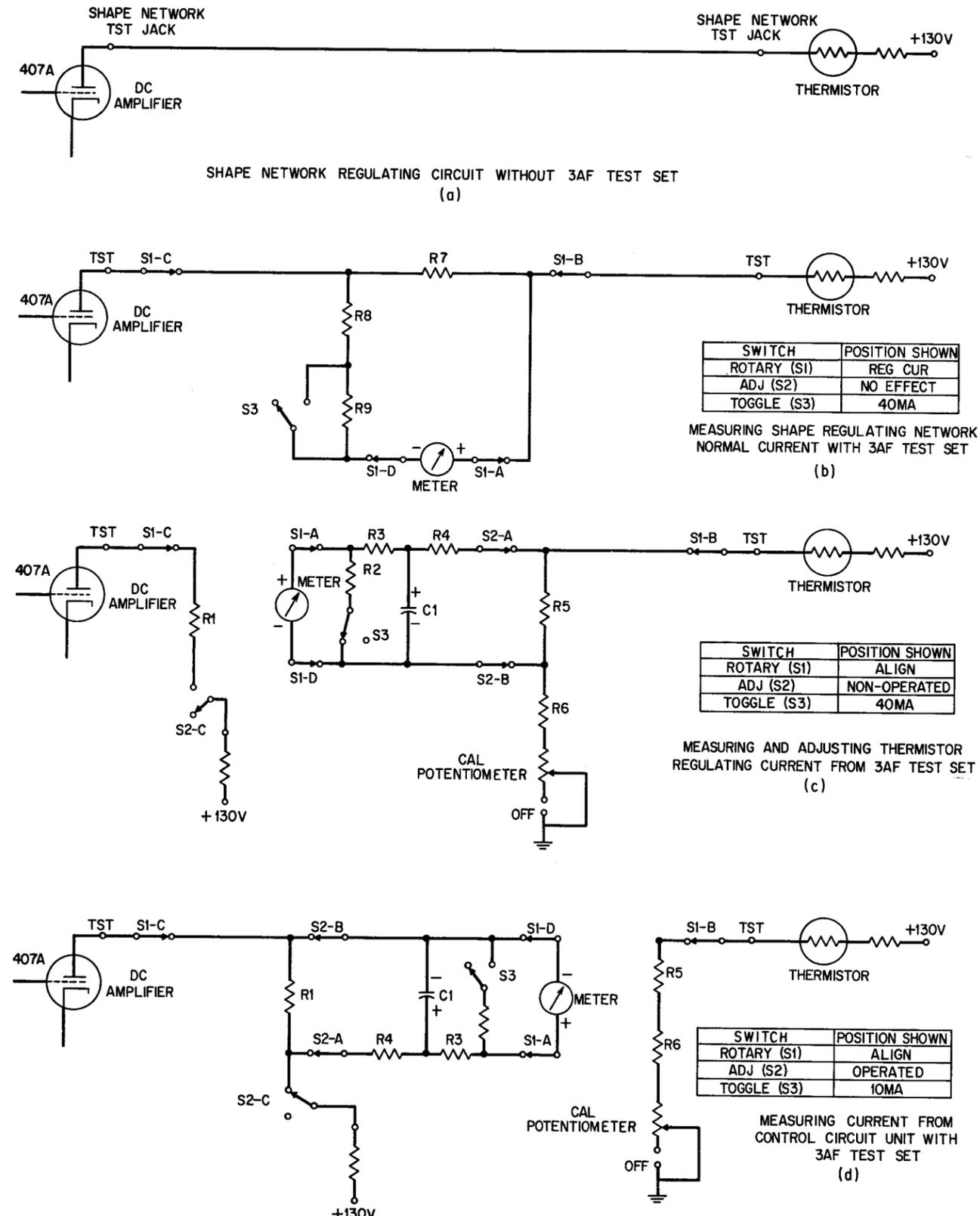


Fig. 1 - Adjustment of 3AF Test Set for Control of Network Thermistor