SECTION VIII

POWER CONTROL PANEL CRV-23275

TECHNICAL SUMMARY

ELECTRICAL CHARACTERISTICS—

Meters Used: Plate and Bias Voltmeter, Dual Range Plate Milliammeter, Dual Range Second Stress Filament Voltmeter, a-c/d-c Bias Supply, 3 Receivers and Auxiliary Unit Plate Supply, 3 Receivers and Auxiliary Unit Plate Supply, 3 Receivers and Auxiliary Unit Supply, 3 Receivers and Au

MECHANICAL SPECIFICATIONS—

Dimensions:

Panel Size	. 19 inches (length) x $10^{15}/_{32}$ inches (height)
Unit Depth	
Weight (net)	9.5 pounds

DESCRIPTION

The power control panel provides individual control of the three receivers and the tone keyer or audio-frequency amplifier unit comprising the diversity receiving system. Such control is afforded by separate switching, and the panel is therefore divided into four sections, one for each receiver and a fourth (at the extreme right) for the auxiliary unit. Each panel section includes a rotary switch at the top for filament, plate, and bias power, a filament rheostat, a set of three push-buttons for metering purposes, and a set of fuses at the bottom. All four sets of fuses are protected by a single bakelite cover extending across the bottom of the panel.

Each set of push-buttons permits checking the associated plate, bias, and filament voltages. Plate and bias voltages are indicated on the dualpurpose meter at the left, while filament voltages are shown on the a-c/d-c meter at the right. The central instrument is a dual-range milliammeter equipped with a retractible drop cord for

The four rotary switches at the top of the panel afford independent control of the three receivers and the auxiliary unit employed. In normal operation, it is necessary only to use the main a-c switch on the power supply panel to start up or to shut down the entire equipment.

Filament voltages for the individual receivers should be checked and adjusted to 6.3 volts by convenient determination of plate currents in the r-f and i-f units as shown in the tabulation of "Normal Operating Voltages and Currents" in Section I. This latter metering circuit also is protected by a fuse located at the center of the main fuse board.

Two of these power control panels are mounted in a dual diversity receiver group; one associated with each receiver group. Nameplates, mounted across the top of each panel, identify the circuit functions controlled. In the left-hand receiver group, the marking on these nameplates, reading from left to right, is as follows: "RECEIVER No. 1", "RECEIVER No. 2 AND A-F No. 1", "RECEIVER No. 3", and "KEYER A." Corresponding markings on the power control panel in the right-hand receiver group are as follows: "RECEIVER No. 4 and KEYER C", "RE-CEIVER No. 5 AND A-F No. 2", "RECEIVER No. 6", and "KEYER B."

OPERATION

means of the respective rheostats. An indication of 6.8 volts on the panel meter corresponds to 6.3 volts at the filament terminals. The pushbutton switches mounted on the face of the panel afford a means of checking the plate and bias as well as the filament voltages on the load side of the fuses. When making measurements, make certain that only one push-button at a time is depressed. Service on the power control panel generally consists in replacing defective fuses on the fuse board located underneath the long channel cover that extends across the bottom of the panel. In the event of failure of a meter to indicate a normal reading, the defect will most likely be found in the switches in the circuit in which such a failure occurs.

For example, assume that receiver No. 1 is turned to an "ON" position and power is supplied to the panel. Depressing the "FILA-MENT" push-button switch for this receiver should indicate, on the filament voltmeter, the applied filament voltage. If no such indication occurs, check the filament fuses (F714, F715), the "FILAMENT" rheostat (R704) and the "FILAMENT" push-button switch (S706). This test procedure should be followed for each circuit in which a meter reading fails to respond to a push-button depression.



Figure 1—Type CRV-23275 Power Control Panel (Front View, Fuse Cover Removed)

丸し



Figure 2—Type CRV-23275 Power Control Panel (Rear View)





范

WIRE TABLE	WIRE NUMBER	I TO ISINCL.	25 10 29 INCL.	35 TO 46 INCL.	55 TO SBINCL	65 TO 72 1446.	80 TO 87 INCL.	- 10 NISINCI	120 TO128 INCL
	DESCRIPTION	K-815877-4 RED-YEL.TR	K-815 977-5 RED-GRN TR.	K-815877-0 YEL-RED TR.	K-BI5877- 10 YEL-GRN. TR.	K-BIS87748 BLUE	K-815877-19 BLU-YEL.TR	K-815877-20 BLACK	PSIOS TINNED COPPER WIRE
	PART NE 510 939	S	و	5	00	0	0	Ξ	12

NOTE I - CODING, INSERTED IN WIRES INDIGNER. WIRE NA MODERSTINKTION OF WIRE RE THUGS SPOORTH, WIRE RE ANG ONLY IS G WIRE MALS INTENDED A WUMBER PREE SIN ALETTER INDIGNER ANG ELECTRAT ITEN, THUG SUNG MULL REFER TO PART NEW ON WIRNA MULL SEE M-440490

TIC

FOR SCH



Figure 4—Type CRV-23275 Power Control Panel Connections (T-621121—Sub. 2)

SECTION VIII