SERVICE HINTS

The operating voltages are located on the schematic diagram. Resistance readings are located on the resistance chart. Never measure resistances with the transmitter turned on.

The troubleshooting chart on this page may help you locate the source of your trouble.

RESISTANCE CHART

TUBE	PINS								
	1	2	3	4	5	6	7	8	9
V-1	34Ω	15K	0	0	0	0	13K	16K	0
V-2	360Ω	135K	40K	0	0	4.5K	0	40K	135K
V-3	90K	39K	500Ω	0	0	—	4.5K	—	2.3K
V-4	800K	2.2M	0	0	0	800K	†	1.5K	0
V-5	20K	1M	1M	0	0	1M	10M	0	50K
V-6	13K	0		0	13K		0	—	—
V-7	2.9K*	0	40K	2.9K*	20K	2.9K*	0	0	—
V-8	2.9K*	0	40K	2.9K*	20K	2.9K*	0	0	—

† Will vary with setting of Gain control.
* Indicates reading taken with Function Switch in AM position.
Resistance readings taken with common lead of VOM connected to chassis.
Function switch in CW and Band switch in "80" position.

TROUBLE	POSSIBLE CAUSE	SERVICE PROCEDURE
Blows Fuse	Short in power supply	Check resistance. Check wiring of CR-1 and CR-2.
	Function switch incorrectly wired.	Check wiring of Function switch.
No meter reading	Bad Crystal	Replace Crystal.
	Defective tube V-1 or V-2.	Replace tube.
	Incorrect Wiring in Oscillator circuit.	Check wiring of V-1 and V-2.
	CR-3 defective.	Replace CR-3.
Meter reads backwards	Meter leads reversed.	Reverse meter leads.
	CR-3 wired backwards.	Check CR-3 wiring.
Tubes don't light	Incorrect filament wiring.	Check filament wiring.
	Fuse blown or defective.	Replace fuse.
Erratic antenna loading	Poor ground connection.	Check ground connection.
	Bad antenna connection.	Check connections to antenna.
No modulation	Gain control not turned up.	Turn up Gain control.
	Function switch set incorrectly.	Check setting of switch.
	Defective 12AX7 or 6DR7.	Replace defective tube.
	Bad mike connection.	Check mike connection.
Television Interference	Poor gound connection.	Check ground connection.
	Poor bond between chassis and cabinet.	Make sure chassis is tightly secured to cabinet.
	Transmitting antenna too close to TV antenna.	Separate antennas until no interference is present.