In case of malfunction, first check power supply fuse, filament fuse in TR-4, and #12 fuse lamp on relay assembly for continuity. The voltage and resistance charts which follow should be valuable in isolating minor problems. However, no attempt should be made to service the TR-4 unless you are thoroughly familiar with electronic circuitry and servicing technique. CARE SHOULD BE TAKEN NOT TO DISTURB THE LEAD DRESS IN THE TR-4 SINCE SEVERAL CIRCUITS ARE QUITE CRITICAL IN THIS REGARD.

Figure 11 RESISTANCE CHART

Pin	1	2	3	4	5	6	7	8	9
V1	18K	2.4Meg	30K	0	Fil	14K	220	220	150K
V2	6.8M	Inf	Fil	0	150K	150K	240K		
V3	10K	150K	230K	Fil	0	16K	2.2K	1K	34K
V4	380K	0	0	Fil	14.5K	12K	40K		
V5	1 Meg	1K	Fil	0	350K	125K	1K		
V6	40K	68K	0	0	Fil	Fil	13K	30K	0
V7	2.5Meg	0	Fil	0	14.5K	11K	100		
V8	13K	45K	40K	Fil	Fil	45K	13K	0	40K
V9	13K	45K	40K	Fil	Fil	45K	13K	0	40K
V10	13K	45K	40K	Fil	Fil	45K	13K	0	40K
V11	2.4Meg	0	Fil	0	14.5K	11K	100		
V12	2.2Meg	0	Fil	0	14.5K	11K	115		
V13	1Meg	25K	45K	0	0	2.2Meg	55K	65K	Fil
V14	13K	2.2Meg	2.2Meg	Fil	0	2.2Meg	22Meg	0	Inf
V15	2Meg	0	0	Fil	14.5K	18K	40K		
V16	2.2Meg	1K	0	Fil	235K	17.5K	22K		
V17	500K	270	0	Fil	13K	10K	500K		
V18	350K	6.8Meg	0	0	Fil	350K	500K	3.3K	0
V19	18K	4.2M	0	Fil	0	113K	500K	820	150K
V20	16K	0	Inf	0	16K	Inf	0		

Note: All measurements were made from ground with the power supply disconnected from the TR-4. The BAND switch was on 40 meters, the FUNCTION switch was on CAL, and the RCVR GAIN and XMIT GAIN controls were fully clockwise. The VOX, ANTI VOX and SIDETONE controls were fully clockwise, and the ZERO control was set at the balance point.