SX-25 VOLTAGE & RESISTANCE MEASUREMENTS

Voltage measurements made with RCA VOLTOHMYST WV-98C VTVM - Resistance measurements made with Fluke 8024B DVM A 20,000 ohm/volt VOM yields values up to 5% higher than VTVM measurements - *ALL FIGURES ARE REPRESENTATIVE AND NOT TO BE CONSTRUED AS ENGINEERING SPECIFICATIONS.*

CONDITIONS: SX-25 with 4 coils each in antenna, 1st RF, 2nd RF and oscillator chain; RF and AF gain at maximum; Selectivity at SHARP IF/AVC ON; BAND #2 tuning capacitor at MINIMUM capacity (fully unmeshed); BFO OFF (except for 6J5 measurements); ANL OFF (except for 6H6 Measurements; Line voltage maintained at 115 VAC' All voltage and resistance measurements between pin and chassis ground; Resistance measurements made with SX-25 depowered and RF/AF gain controls fully clockwise. TUBE PINS READ COUNTER-CLOCKWISE FROM KEY ON TOP OF CHASSIS OR CLOCKWISE FROM KEY WHEN READ BELOW CHASSIS. NA = Not applicable (no connection).

VOLTAGE (All values DC volts unless marked otherwise)

SOCKET PIN	*1*	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*CAP*
1st RF 6SK7	0	0	3.5	- 0.4	3.5	85	5.8 RMS AC	291	NA
2nd RF 6SK7	0	0	4.0	- 0.3	4.0	83	5.8 RMS AC	282	NA
CONVERTER 6K8	0	0	255	143	- 15.0	252	5.8 RMS AC	3.9	0.2
1st IF 6SK7	0	0	5.1	- 0.4	5.0	84	5.8 RMS AC	328	NA
2nd IF 6SK7	0	0	3.5	0	3.2	82	5.8 RMS AC	280	NA
2nd Detector 6SQ7*	0	0	1.0	0.2	0.2	130	5.8 RMS AC	0	NA
Phase Inv 6SQ7	0	0.5	0.95	0	0	118	5.8 RMS AC	0	NA
Amp (Front) 6F6	0	0	305	301	0.2	0	5.8 RMS AC	18	NA
Amp (Rear) 6F6	0	0	320	320	0.3	0.4	5.8 RMS AC	15	NA
ANL 6H6 (ON)	0	0	- 1.0	0.4	- 0.3	0	5.8 RMS AC	0	NA
Rectifier 80**	5.3 RMS AC FIL	285 RMS AC	285 RMS AC	9.0 RMS AC	NA	NA	NA	NA	NA
BFO 6J5 (ON)	0	0	112	- 0.2	- 65.0	0	5.8 RMS AC	0	NA

Notes: * 2nd detector 6SQ7 (pins 4 & 5) are AVC signal and fluctuate with signals. ** Orientation of rectifier socket varies with production run; caution to double-check pin-out of filaments and plate of your actual tube pins; heater voltage vary when measured against chassis ground but all result in a 5.0 VAC voltage drop across filament.

RESISTANCE (All values in ohms)

SOCKET PIN	1	2	3	4	5	6	7	8	CAP
1st RF 6SK7	0	0	580	202.5K	600	14.5K	0	35K	NA
2nd RF 6SK7	0	0	540	6	540	14.5K	0	54K	NA
CONVERTER 6K8	0	0	36K	85K	64K	58K	0	250	120K
1st IF 6SK7	0	0	1000	240K	1100	15K	0	44K	NA
2nd IF 6SK7	0	0	520	5.7	500	14.5K	0	35K	NA
2nd Detector 6SQ7	0	201K	135	Infinity	Infinity	390K	0	Infinity	NA
Phase Inv 6SQ7	0	10	135	505K	505k	304K	0	Infinity	NA
Amp (Front) 6F6	0	0	33K	33K	41K	Infinity	0	Infinity	NA
Amp (Rear) 6F6	0	0	32K	32K	500K	205K	0	Infinity	NA
ANL 6H6 (ON)	0	0	1.5MEG	Infinity	45K	Infinity	0	Infinity	NA
Rectifier 80	60	56	32.5K	32.5K	NA	NA	NA	NA	NA
BFO 6J5 (ON)	0	0	50	Infinity	48K	Infinity	0	Infinity	NA