



Tubester Sets 758-1, -3, -3A, -3B, -3C

ALIGNMENT TOUCH-UP: The Tubesters match their tube counterparts very closely, and the re-alignment needed for peak performance is merely to touch up the RF and Oscillator tuned circuit trimmers. The VFO, band-pass IF transformer, filter and IF sections of the receiver need not be touched. While all alignments are in accord with your Collins manual, step-by-step instructions are given in the Tubester manual for your convenience. No special skill, special tools or external equipment are required, and all alignment points are readily accessible beneath the cabinet lid.

CIRCUIT DESCRIPTIONS: The table below describes the Tubester circuits:

Tubester Type	Function	Low Volt		High Voltage			Gr	R	C	Type circuit
		FET	MOS	FET	Xtr	Pxtr				
ST101	Audio Output				1	2	7	2		Preamp dc cpld to two power txtra
ST102	VFO	1				1	3			Cascode HF Oscillator, low noise
ST103	Xtl Calibr			1	1		2	1		Dc cpld xtal oscillator
ST104	Tunable BFO		1		1		1	7	1	Dc cpld oscillator-amplifier
ST105	AGC/Det/Aud	1		1			2	1	1	Cascode amp, dual diode
ST106A	IF Amp	1				1	3	5	4	Shielded cascode amp with diode atten circuit controlled by R57
ST106B	IF Amp	1				1	1	5	3	Shielded cascode amplifier
ST107	IF Amp	1				1	1	5	3	Shielded cascode amp, FET selected dc characteristics to drive S-Meter
ST108	RF Amp		1		1		8	2		Cascode VHF amp, low noise
ST201a	Prod detctr	1		1			1	1		Cascode amplifier, low freq response
b	Xtal BFO					2	5	3		Ac cpld xtal oscillator-amplifier
ST202a	IF Amp	1		1			1	2		Cascode amp with neutralizing cap
b	Q Mult	1		1			1	2		Cascode amp with padder capacitor
ST203a	First mixer	1		1			1			Cascode amp
b	Het osc				1	1	7	4		Xtal osc ac cpld to power amplifier
ST204a	Second mixer	1		1			1	3	2	Cascode amp
b	Cath folwr					1	2	1		Power emitter follower

WARRANTY: Should a Tubester fail under normal operating conditions in the circuit for which it is designated SKYTEC will repair or replace it for its original purchaser at no charge.

Tubesters blown by accidental insertion or removal with power on, or installation in the wrong socket will be repaired or replaced for their original purchaser at 50% of the unit list price plus a \$1 mailing charge.

WARRANTY PERIOD: The warranty has no time limit, and SKYTEC will honor it unconditionally at least through calendar 1981. At such time as the Tubester market no longer supports a sales and manufacturing activity, it is our plan to maintain or establish a continuing service source from which Tubester Set owners may purchase repair, replacements and/or schematics and components. It may be possible also to provide a continuing Warranty Contract on a small annual fee basis.