

CIRCUIT DESCRIPTIONS
and
WARRANTY



CIRCUIT DESCRIPTIONS: The following table describes the Tubester circuits:

Tubester Type	Function	LowVolt		HighVoltage		Or	R	O	Type circuit
		FET	MOS	FET	B1P.Pwr				
ST101	Audio Output			1	2		7	3	Preamp dc cpld to two power transistors.
ST102	VFO	1			1		3	2	Cascode HF Osc., low noise, tuned caps.
ST103	Xtl Calibr.	1		1			3	3	Ac cpld two-stage xtal oscillator.
ST104	Tunable BFO		1	1		1	7	1	Dc cpld oscillator-amplifier.
ST105	AGC/Det/Aud	1		1			2	1 1	Cascode amplifier, dual diode.
ST106A	IF Amplifier	1		1			2	6 4	Cascode amplifier with diode attenuator controlled by R57, "RF Gain Adjust".
ST106B	IF Amplifier	1		1			5	3	Cascode amplifier.
ST107	IF Amplifier	1			1		5	3	Shielded cascode amp, FET selected Idde to drive S-Meter.
ST108	RF Amplifier		1		1		8	2	Cascode VHF amplifier, low noise.
ST201a	Product Dect	1		1			1	1	Cascode amplifier.
ST201b	Xtal BFO				2		5	3	Ac cpld xtal oscillator-amplifier.
ST202a	IF Amplifier	1		1			1	2	Neutralized cascode amplifier.
ST202b	Q Multiplier	1		1			1	2	Cascode amplifier with padder capacitor.
ST203a	First Mixer	1		1			2	1	Cascode amplifier.
ST203b	Het. Osc.			1	1		6	3	Xtal osc ac cpld to power amplifier.
ST204a	Second mixer	1		1			4	2	Cascode amplifier.
ST204b	Cath folwr				1		3	1	Power emitter follower.
ST301a	1st Audio			1	1		1	1	Cascode amplifier.
ST301b	2nd Audio	1		1			3	1	Cascode amplifier, high gain.
ST302a	Cath Folwr	1			1		3		Emitter follower.
ST302b	BFO						3	2	Ac cpld two-stage xtal oscillator.
ST303	IF Amplifier		1		1		7	4	Cascode pwr amp biased to drive ALC Mtr.
ST304	1st Mixer	2			2		5	2	Dual cascode amplifiers.
ST305	2nd Mixer	1			1		5	2	Special purpose cascode amplifier.
ST306	RF Amplifier		1		1		6	2	Pwr cascd amp biased for ALC control.
ST310	Dual diode						2		Dual 600 PIV Diodes
ST311a	VOX Rly Act.	1		1	1		2	4	Schmitt Trigger dc cpld to power amp.
ST311b	Tone Osc.	1		1				1	Cascode oscillator.
ST312	HF Xtal Osc.			1	1		6	3	Xtal osc ac cpld to power amplifier.
ST314	VOX/AV Amps.	2			2		3		Dual cascode audio amplifiers.
ST315	VFO	1		1		1	2	3	Cascode HF Osc., tuned capacitors.

WARRANTY: Tubesters are guaranteed free from defects and to operate properly upon delivery; any defective units will be replaced promptly at no cost, postage paid within the USA. In addition, the Tubesters are warranted for an extensive service period, as follows:

Within one year after delivery, any Tubester that fails under normal operating conditions will be repaired or replaced at no charge except for a \$2 handling and postage fee.

Beyond the one-year full coverage period, any Tubester that fails under normal operating conditions will be repaired or replaced for 50% of its list price plus \$2 mailing. This extended warranty will remain in effect for so long as the Tubester market makes possible continued manufacture and sale of these products by Skytec.

THIS WARRANTY IS MADE BY SKYTEC TO THE ORIGINAL TUBESTER PURCHASER; IT IS NOT TRANSFERABLE.

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