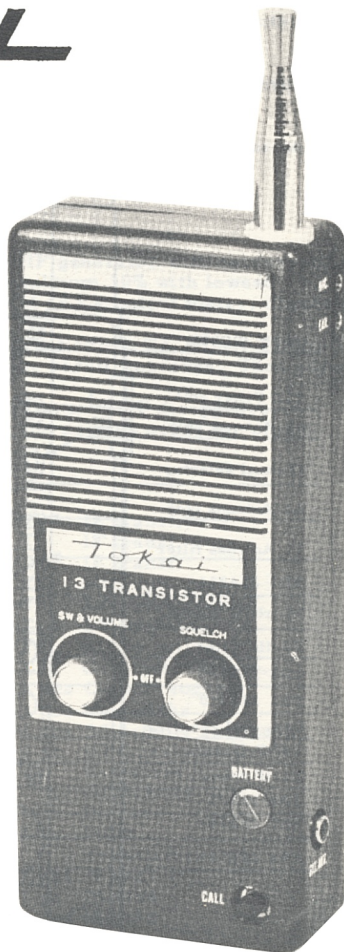


Tokai

TC-1603S

SERVICE MANUAL

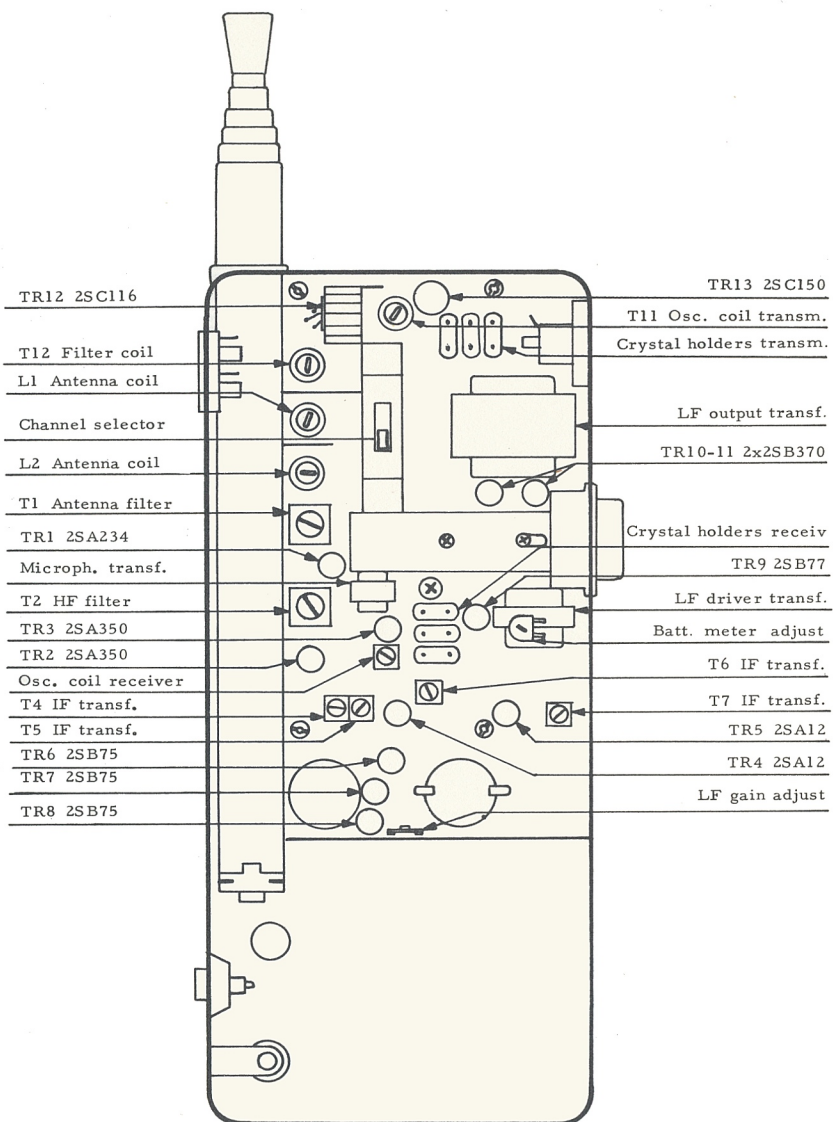


EUROPEAN SOLE REPRESENTATIVE

AB SVENSKA Tokai

SICKLA KANALVÄG
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SWEDEN

TEL.: (08) 44 07 10
TELEX: 10177
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ADJUSTMENT OF TRANSMITTER

Insert new batteries (UM-3Dx8), or connect to stabilized power supply, leaving 12,6 V DC at minimum 0,2 A. DC-jack is connected with centre pin to positive. Switch on the transmitter, and connect an HF output meter, with a characteristic impedance of 50 ohms, to antenna output.

Unscrew the core of L1 and key the transmitter. Adjust T12 as follows: Turn the core counter-clockwise until oscillation stops. Then turn the core clockwise until oscillation starts again and one more turn (360°). Then adjust T11 to maximum.

Extend the rod antenna, and disconnect the HF output meter. Screw in the core of L1. Use a field-strength meter and adjust L1 to maximum.

Check the starting of the oscillator by keying the transmitter.

Speak into the microphone and check the modulation.

ADJUSTMENT OF RECEIVER

Turn on volume and turn off squelch. Connect an HF generator with corresponding frequency (±300 Hz) to antenna input. Modulate maximum 30% with lowest possible signal, that can be measured with a VTVM or LF output meter, connected to the speaker.

Check that the receiver oscillator works gently, if not adjust T3. Adjust T1 and T2 to maximum. Reduce the HF signal as the adjusting result improves. Then adjust T4, T5, T6 and T7 carefully to maximum.

Switch off the HF signal, turn squelch knob clockwise until LF disappears.

Switch on the HF signal again and make sure that the squelch opens for signal.

PARTS LIST

Mechanical parts	30 C Battery holder	T5	IF transf.
1 S Cabinet w/o lid	31 B Core/do	T6	IF transf.
2 S Lid/cabinet	32 D Batt. holder case	T7	IF transf.
3 P Front plate	33 C Speaker	T8	Microph. transf.
5 K Speaker net	36 B Crystal set	T9	LF driver transf.
6 A Speaker plug	37 M Leather case	T10	LF output transf.
7 D Speaker jack	38 A Earphone	T11	Filter coil
8 G Battery meter	39 D Case/do	T12	Osc. coil transm.
9 K Channel selector	41 Support/printboard	6 pcs	Crystal sockets
11 C Switch/call signal	42 D Screw/lid(small)	3 pcs	Heat sinks
12 C Potentiom. squelch	43 D Do (large)	2 pcs	Adjustable resistors
13 C Potentiom. volume	44 Screw/printboard	1 pc	NTC resistor D-1E
14 E Knob/vol. squelch	Components		Resistors
15 C P. T. T: switch	L1 Antenna coil		Capacitors
16 E Push button	L2 Antenna coil		Diode:
17 A Microphone plug	L3 Choke	1 pc	1N60
18 B Microphone jack	L4 Choke		Transistors:
19 ADC-plug	L5 Choke	2 pcs	2SA12
20 ADC-jack	L5 Choke	1 pc	2SA234
21 ADC-plug with core	L6 Choke	2 pcs	2SA350
22 A Do/use with BE1A	L7 Choke	3 pcs	2SB75
23 E Rod antenna	L8 Choke	1 pc	2SB77
24 C Antenna insul. upper	L9 Choke	2 pcs	2SB370
25 C Antenna insul. lower	T1 Antenna filter	1 pc	2SC116
26 D Antenna knob	T2 HF filter	1 pc	2SC150
27 A Antenna plug	T3 Osc. transf. rec.		Varistor:
28 A Antenna jack	T4 IF transf.	1 pc	HV-15

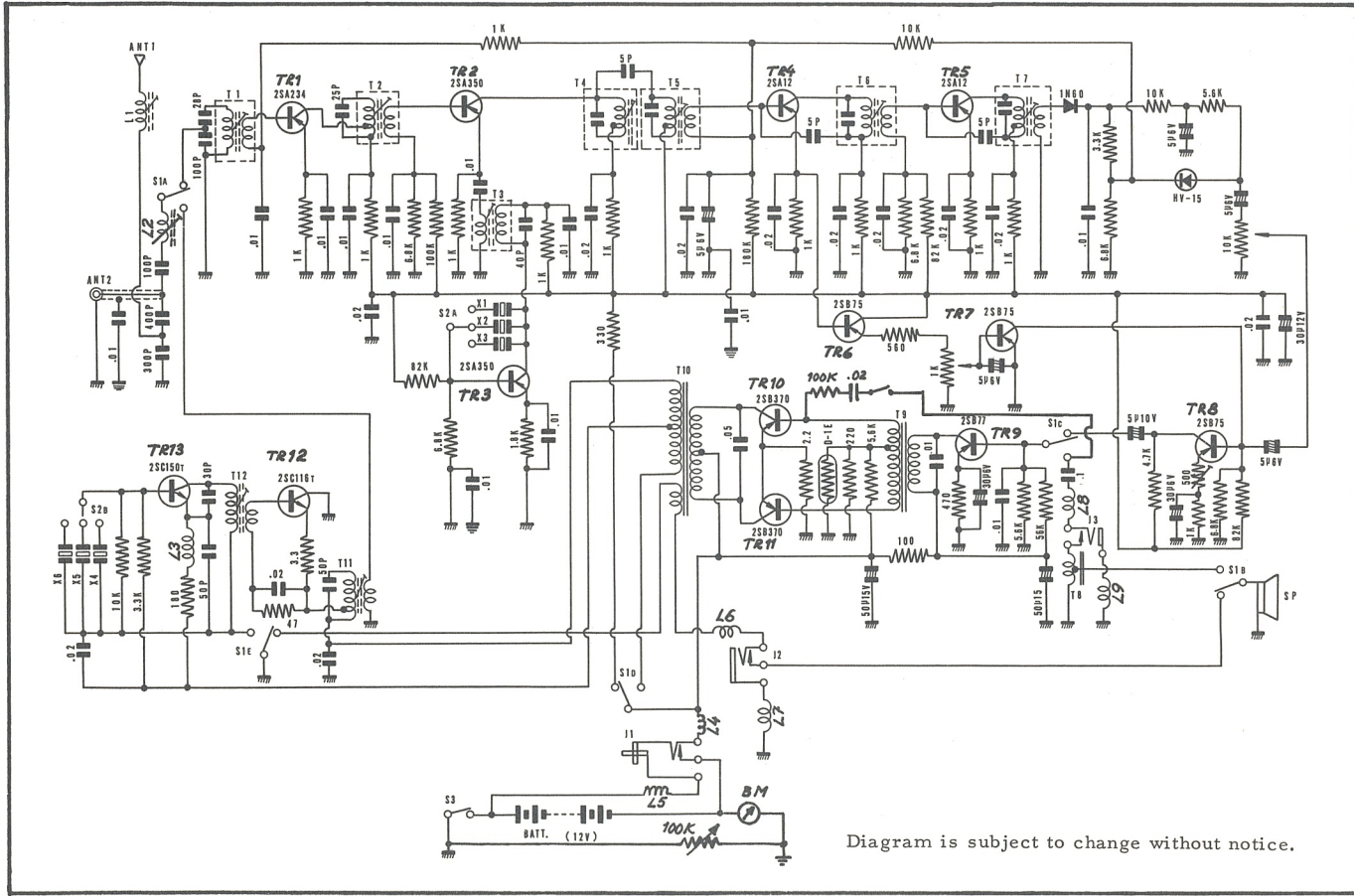


Diagram is subject to change without notice.