

Service Data for
HEALING



Golden Voice

RADIO-GRAM

Night 'n Day
Model 703TG



TUNING RANGE: 520-1620 Kc/s.

INTERMEDIATE FREQUENCY: 455 Kc/s.

MAINS OPERATION:

230 — 250 volts A.C. 50 cps.

BATTERY OPERATION:

9 volts (6 Eveready cells type 1050)

POWER CONSUMPTION:

Mains operation 3 watts
Radio " 12 MA no signal
Gram " 55 MA no signal

SPEAKERS: Rola 4CQ, F43 cone,
15 ohm V.C.

RECORD PLAYER:

B.S.R. type TU12B, 9 volt

PICK-UP: B.S.R. PU33, TC8H cartridge

TRANSISTOR COMPLEMENT:

TR1	SE1002	Convertor
TR2	SE1002	1st I.F. Amp.
TR3	SE1002	2nd I.F. Amp.
TR4	SE1002	1st Audio Amp.
TR5	2N3638	2nd Audio Amp.
TR6	AY1105	Complementary Output
TR7	AY1106	Complementary Output
CR1	OA91	A.G.C. Overload Diode
CR2	OA91	Detector and A.G.C. Rectifier
CR3	AN1102	Bias Stabilization Diode
CR4	AN1102	Bias Stabilization Diode
CR5	IN2858	Rectifier Power Supply
CR6	IN2858	Rectifier Power Supply

Distributed by

HEALING (SALES) PTY. LTD.

a subsidiary of A. G. Healing Ltd.

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ALIGNMENT PROCEDURE

I.F. ALIGNMENT 455Kc/s.

Connect generator through a small capacitor (100pF to .01 mfd) to aerial section of gang (C.1). Use minimum signal generator output consistent with a readable signal. Set volume control to maximum, tone control "high" and tuning capacitor to minimum capacity.

1. Adjust I.F. transformer cores in order T5, T4, T3.
2. Repeat (1) until alignment is satisfactory.

R.F. AND OSCILLATOR ALIGNMENT

Signal generator should be coupled loosely to receiver, i.e. through a radiating loop, or a wire lying on the bench.

1. Set dial to a low frequency station (about 600 Kc/s) and tune oscillator core until station is received.
2. Set dial to a high frequency station (about 1500 Kc/s) and tune oscillator trimmer (C4) until station is received.
3. Repeat 1 and 2 until no further adjustment is required.
4. Tune receiver to receive 600 Kc/s signal from generator and peak aerial coil on ferrite rod.
5. Tune receiver to receive 1400 Kc/s signal from generator and peak aerial trimmer (C2).
6. Repeat 4 and 5 until alignment is satisfactory.

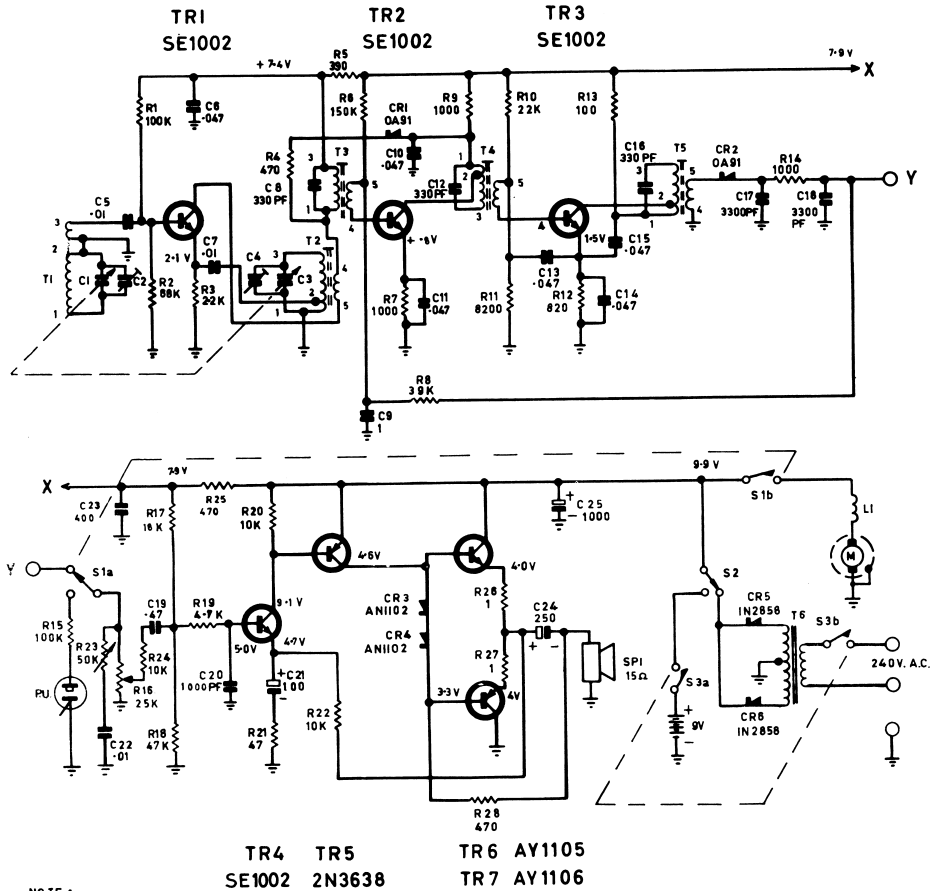
REMOVAL OF DIAL

To remove dial pull straight off; do not twist.

COMPONENTS NOT DESCRIBED ON CIRCUIT

Circuit Ref.	Description	Part No.
C1-C3	Capacitor Variable, 2 gang padderless MSP K2XT	RL1107
T1	Transformer, Aerial B/C	RJ188
T2	Transformer Osc.	RJ189
T3 T4	Transformer I.F.	RJ190
T5	Transformer I.F.	RJ191
L1	Inductor, Filter	TJ107
T6	Transformer, Power, type Q36-13	
S1a-S1b	Switch, slide button, 2 pole 2 way MSP 70/78	
S2	Switch, rotary S.P.D.T., type 20/23 IR MSP	RL1110
S3a-S3b	Switch, push-push D.P., 250V, 2a, type 122 Elmaco.	
R16	Resistor Variable, Carbon, 25K "C"	RL1108
R23	Resistor Variable, Carbon, 50K linear.	RL1109

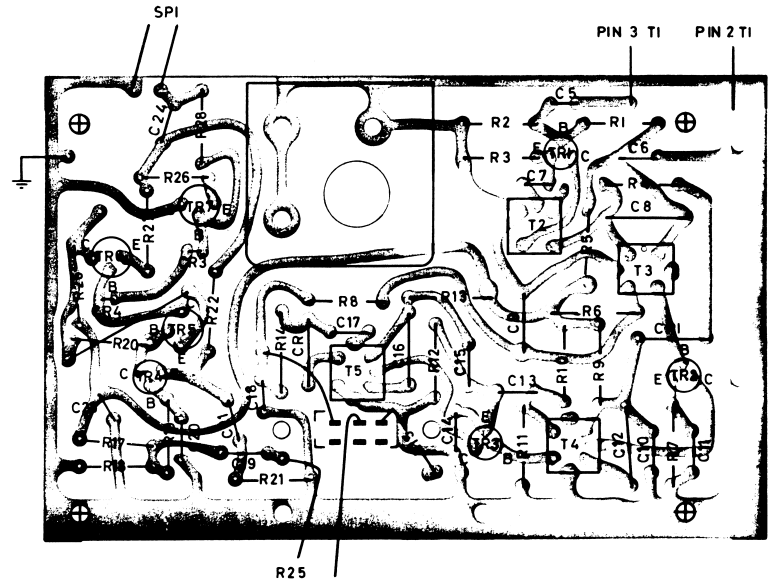
HEALING – Model 703 TG



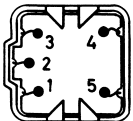
- NOTE :-**
1. ALL VOLTAGES ARE MEASURED ON 20000Ω/VOLT METER SET ON 10V RANGE, NO SIGNAL INPUT TO RECEIVER.
 2. ALL RESISTORS ARE IN 1/2 WATT 10% UNLESS OTHERWISE SPECIFIED.
 3. ALL CERAMIC CAP. ARE IN MFD±10 -20% "

CIRCUIT CHANGES:

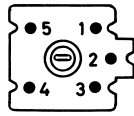
- R2 should be 47K
- R6 should be 120K
- C13 should be .0022 mf



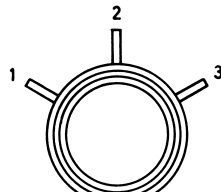
NOTE : VIEWED FROM SOLDERED SIDE OF BOARD.



RJ190, RJ191 — I.F. Transformer



RJ189 — Osc. Coil



RJ188 — Aerial Coil

CONNECTIONS VIEWED FROM TERMINAL END OF COIL