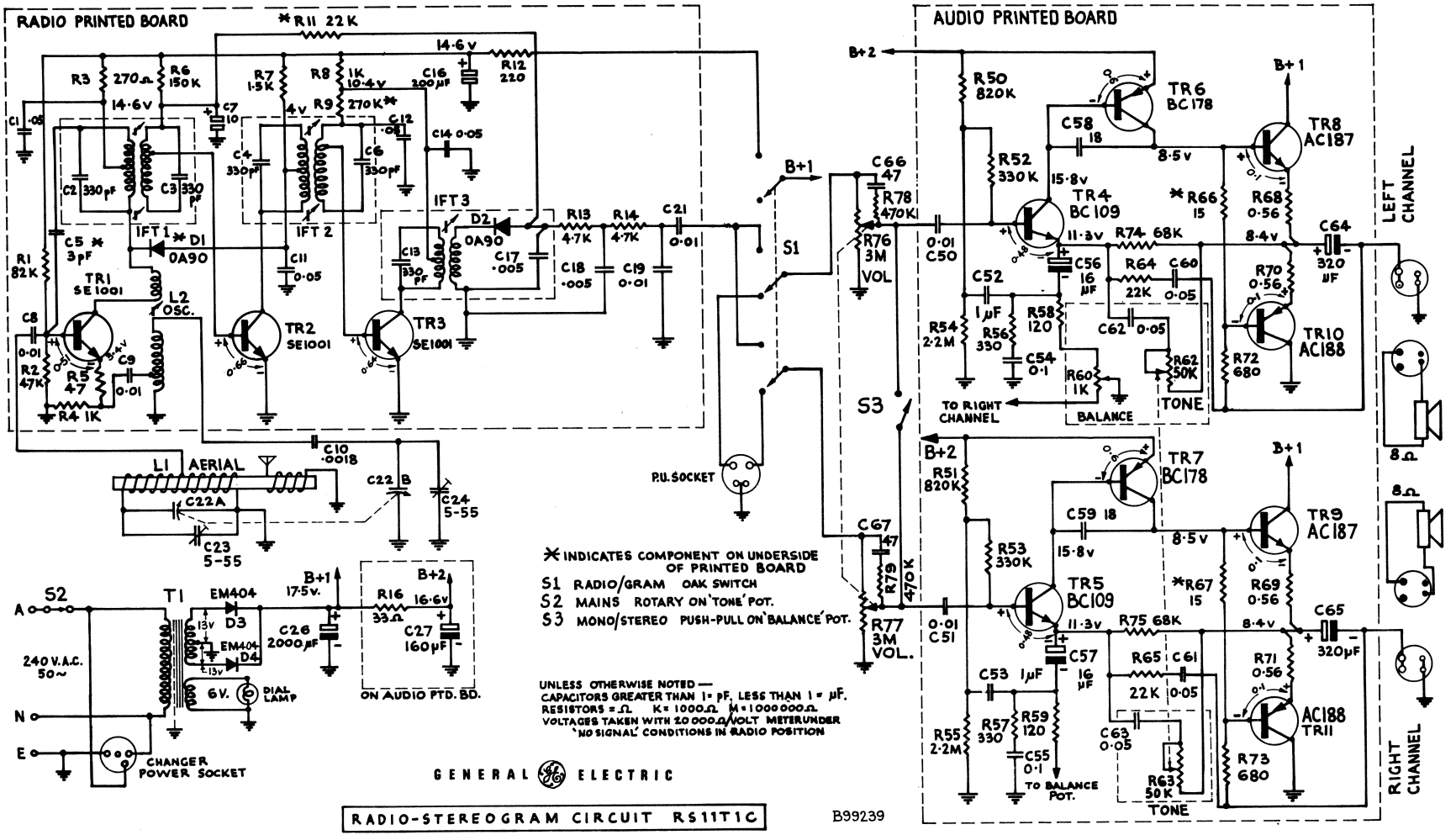

RADIO PRINTED BOARD
AUDIO PRINTED BOARD
*R11 22K
R3 270Ω
R6 150K
R7 1·5K
R8 1K
R9 270K*
R12 220
C16 200µF
14·6v
4v
10·4v
C1 ·05
C2 330pF
C3 330pF
C4 330pF
C6 330pF
C7 10
C12 ·01
C14 0·05
IFT 1
IFT 2
IFT 3
*D1 0A90
D2 0A90
C5 * 3pF
C11 0·05
C13 330pF
C17 ·005
R13 4·7K
R14 4·7K
C21 0·01
C18 ·005
C19 0·01
R1 82K
R2 47K
R4 1K
R5 4·7
C8 0·01
C9 0·01
TR1 SE1001
TR2 SE1001
TR3 SE1001
L2 OSC.
L1 AERIAL
C10 ·0018
C22A
C22B
C24 5-55
C23 5-55
S1
S2
S3
P.U. SOCKET
B+1
B+2
C66 47
R78 470K
R76 3M VOL
C67 47
R79 470K
R77 3M VOL.
0·01 C50
0·01 C51
R50 820K
R51 820K
R52 330K
R53 330K
TR6 BC178
TR7 BC178
TR4 BC109
TR5 BC109
C58 18
C59 18
15·8v
11·3v
8·5v
8·4v
R74 68K
R75 68K
C56 16µF
C57 16µF
C52 1µF
C53 1µF
R54 2·2M
R55 2·2M
R56 330
R57 330
R58 120
R59 120
C54 0·1
C55 0·1
R60 1K
C62 0·05
C63 0·05
R62 50K
R63 50K
TONE
BALANCE
TO RIGHT CHANNEL
TO BALANCE POT.
R64 22K
C60 0·05
C61 0·05
R65 22K
R66 15
R67 15
R68 0·56
R69 0·56
R70 0·56
R71 0·56
R72 680
R73 680
TR8 AC187
TR9 AC187
TR10 AC188
TR11 AC188
C64 320µF
C65 320µF
LEFT CHANNEL
RIGHT CHANNEL
8Ω
8Ω
T1
EM404
D3
D4
EM404
13v
13v
B+1 17·5v.
B+2 16·6v
R16 33Ω
C26 2000µF
C27 160µF
ON AUDIO PTD. BD.
240 V.A.C. 50~
6V.
DIAL LAMP
CHANGER POWER SOCKET
A
N
E
* INDICATES COMPONENT ON UNDERSIDE OF PRINTED BOARD
S1 RADIO/GRAM OAK SWITCH
S2 MAINS ROTARY ON 'TONE' POT.
S3 MONO/STEREO PUSH-PULL ON 'BALANCE' POT.
UNLESS OTHERWISE NOTED —
CAPACITORS GREATER THAN 1= pF, LESS THAN 1 = µF.
RESISTORS = Ω K= 1000Ω M=1000000Ω
VOLTAGES TAKEN WITH 20000Ω/VOLT METERUNDER 'NO SIGNAL' CONDITIONS IN RADIO POSITION
GENERAL ELECTRIC
RADIO-STEREOGRAM CIRCUIT RS11T1C
B99239

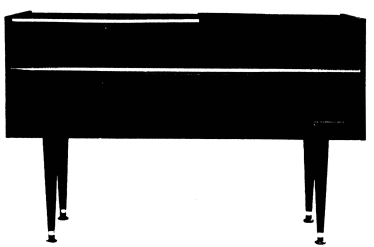
GENERAL ELECTRIC
AUSTRALIA

Electronics Division

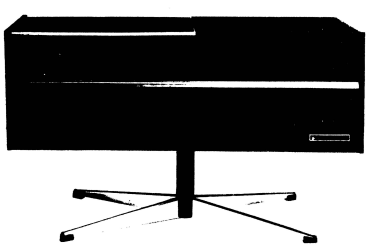
RS11T1C

Service Manual

INCORPORATING RS3 & RS3S
RADIO STEREOGRAM



RS3



RS3S

RS3 & RS3S

REMOVAL OF OR SERVICE TO CHASSIS

- Disconnect two speaker plug connections at rear of cabinet.
- Remove (5) "pull-off" type knobs from control panel.
- Remove (2) Philips head screws retaining escutcheon and remove same. (Note that escutcheon is fitted into recess in front panel of cabinet therefore lift from back end and slide out.)
- Remove four hexagon head screws securing chassis to mounting brackets, placed front and back of cabinet.
- Chassis may now be lifted from well and placed on top of cabinet providing same is suitable protected.
- In this condition speakers may be re-connected and the unit tested in operating condition.
- For complete removal of chassis, disconnect leads to record changer and withdraw power cord.
- For increased accessibility, frame-carrying printed board may be pivoted through ninety degree arc after removing one hexagon head screw securing lower portion of frame to transformer mounting bracket.

RECORD CHANGER REMOVAL

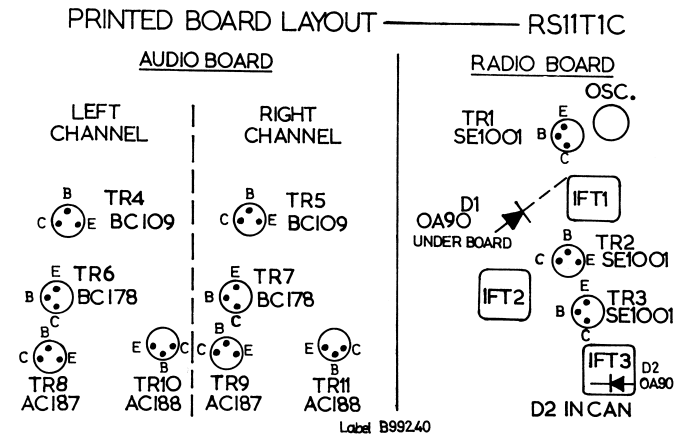
- Remove cabinet back.
- Disconnect the motor power plug and socket also pickup input from socket on amplifier chassis.
- Release 2 clips beneath motor board securing record changer.
- Changer may now be lifted from cabinet.

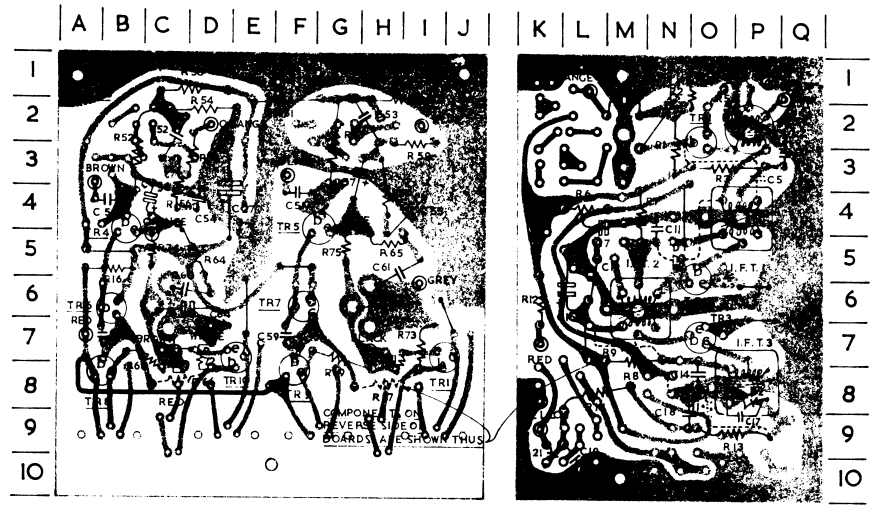
RS3 & RS3S CABINET COMPONENTS

Part No.	Used	Description	Part No.	Used	Description
B92582	RS3	Cabinet Flat Walnut	M78214	C	Aerial Rod and Coil assy.
B92584	RS3	Cabinet Teak oiled	B85124	C	Hinge 2" x 1¼"
B92588	RS3S	Cabinet Walnut	B61018	C	Switch Oak Type
B92590	RS3S	Cabinet Teak	B50273	C	Control Knobs (5)
B65024	C	Tinted Lid	B49055	C	Insert Knob Tuning
B59076	RS3	Legs black	B49056	C	Insert Knobs (4)
B82020	RS3S	Stand Metal legs	B75015	C	Plug Changer
B85121	C	Trim lid	B75022	C	Socket Changer Pick Up.
B85122	C	Trim cabinet	B75108	C	Plug (changer 1, speaker 2)
B97067	C	Record changer BSR	B75024	C	Socket 4 Pin
B97066	C	Speakers (2 off)	B94207	C	Scale Dial glass
B50377	C	Control Panel "Oroglass"	B81004	C	Cord Dial drive
B85123	C	Trim Control Panel surround	B80029	C	Spring Dial drive
B94208	C	Nameplate G.E. Solid State Stereo	B31085	C	Drum Dial drive

C = Common to both models.

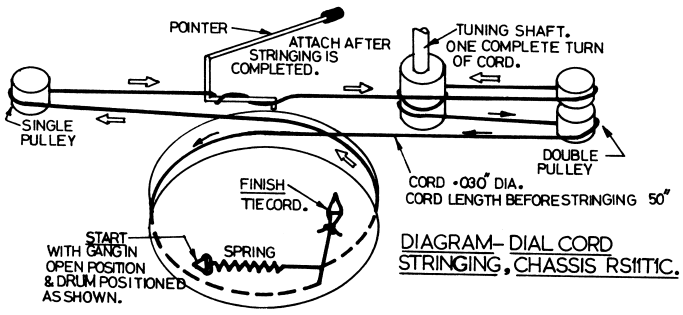
LAYOUT OF COMPONENTS





AUDIO PRINTED BOARD
Components Side

RADIO PRINTED BOARD
Components Side



DIAGRAM– DIAL CORD STRINGING, CHASSIS RS11T1C.

RSIITIC CAPACITOR & LOCATION

Position	Location	Board	No.	Part No.	Description
3Q		Radio	C1	B18123	C/C ·05mfd. +80% −20% 50V
	IFT2		C2		330 pf.
	IFT2		C3		330 pf.
	IFT2		C4		330 pf.
P3		Radio	C5	B18024	C/C 3 pf ±·25pf. 500V
	IFT2		C6		330 pf.
L5		Radio	C7	B16054	C/E 10mfd. 6V
M2		Radio	C8	B18007	C/C ·01mfd. 20% 500V
P1		Radio	C9	B18007	C/C ·01mfd. 20% 500V
	Tuner assy.		C10	B18121	C/C 1800pf. 10% 500V
N4		Radio	C11	B18123	C/C ·05mfd. +80% −20% 50V
L5		Radio	C12	B18123	C/C ·05mfd. +80% −20% 50V
	LFT3		C13		330 pf.
O8		Radio	C14	B18123	C/C ·05mfd. +80% −20% 50V

RSIITIC SPECIFICATIONS

240 Volt 50 Cycle A.C. - 33 Watts at maximum output (Sine Ware)

Power output, Total 5 Watts - $2\frac{1}{2}$ Watts per channel at less than 2% distortion.

TRANSISTOR COMPLEMENT					4 DIODES
TR 1	SE 1001	TR 6	BC 178	D 1	OA 90
TR 2	SE 1001	TR 7	BC 178	D 2	OA 90
TR 3	SE 1001	TR 8	AC 187	D 3	EM 404
TR 4	BC 109	TR 9	AC 187	D 4	EM 404
TR 5	BC 109	TR10	AC 188		
		TR11	AC 188		

RS3 RADIO ALIGNMENT CHART

STEP	SIGNAL GENERATOR CONNECTION	SIGNAL GENERATOR SETTING	TUNING CAPACITOR (GANG)	ADJUSTMENTS
1.	To aerial terminal via 0.01 capacitor	455 Kc modulated 30% at 400 cps. level adjusted to give approx. 100 mw. of audio output.	Closed	Adjust the tuning cores of IFT1, IFT2 & IFT3 for max. output. The top tuning cores of IFT1 & IFT2 are tuned to the inner peaks and all others to the outer peaks.
2.	---	----	Closed	Align the pointer to the low frequency limit mark at 520Kc. on the dial scale.
3.	To aerial terminal via dummy aerial or loosely couple with a length of wire near the aerial rod.	590Kc with modulation and level adjusted as in Step 1.	Adjust the pointer to the alignment mark near 2FC.	Tune the oscillator and aerial coils for maximum output.
4.	Same as Step 3.	1500Kc with modulation and level adjusted as in Step 1.	Adjust the pointer to the alignment mark near 2NA.	Adjust the oscillator and aerial trimmer capacitors for maximum output.
5.	Repeat Steps 3 and 4 until no further improvement is obtained, then seal the trimmer capacitor and the aerial coil.			

APPLICATION OF A.C. POWER AFTER REPAIRS

After any repairs have been made to the driver-output stages a low input AC power test should be made to determine if a damaging defect still remains in the circuit.
This check should be made with no signal input in the 'Gram' mode, by monitoring the total current drawn from the power supply, whilst applying AC power to the amplifier through a Variac. A suitable DC current meter should be connected in series with the red lead from C26 which is normally connected to the power supply and starting with zero volts the Variac should be advanced slowly whilst observing the reading of the current meter. Excessive currents (500ma or more) may flow with only 20-40 volts AC input if a fault condition still exists. The normal 'no signal' current at the full supply voltage of 240 volts is of the order of 20-45ma.

D.C. VOLTAGE MEASUREMENTS

DC voltages should be measured with a 20,000 ohms per volt multimeter or for better accuracy a VTVM. Typical bias voltages are shown on the circuit diagram. All transistors can be tested in the circuit by DC voltage measurements with the circuit operated in a DC (no signal) condition. Generally, if the emitter voltage is correct, the stage is functioning properly.