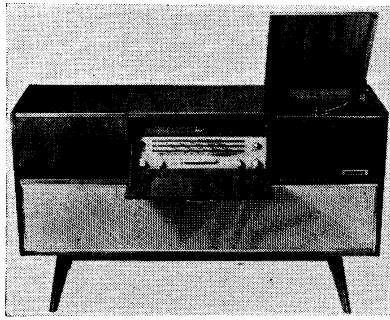


# E R T

**SERVICE  
CHART  
1607  
New Series**



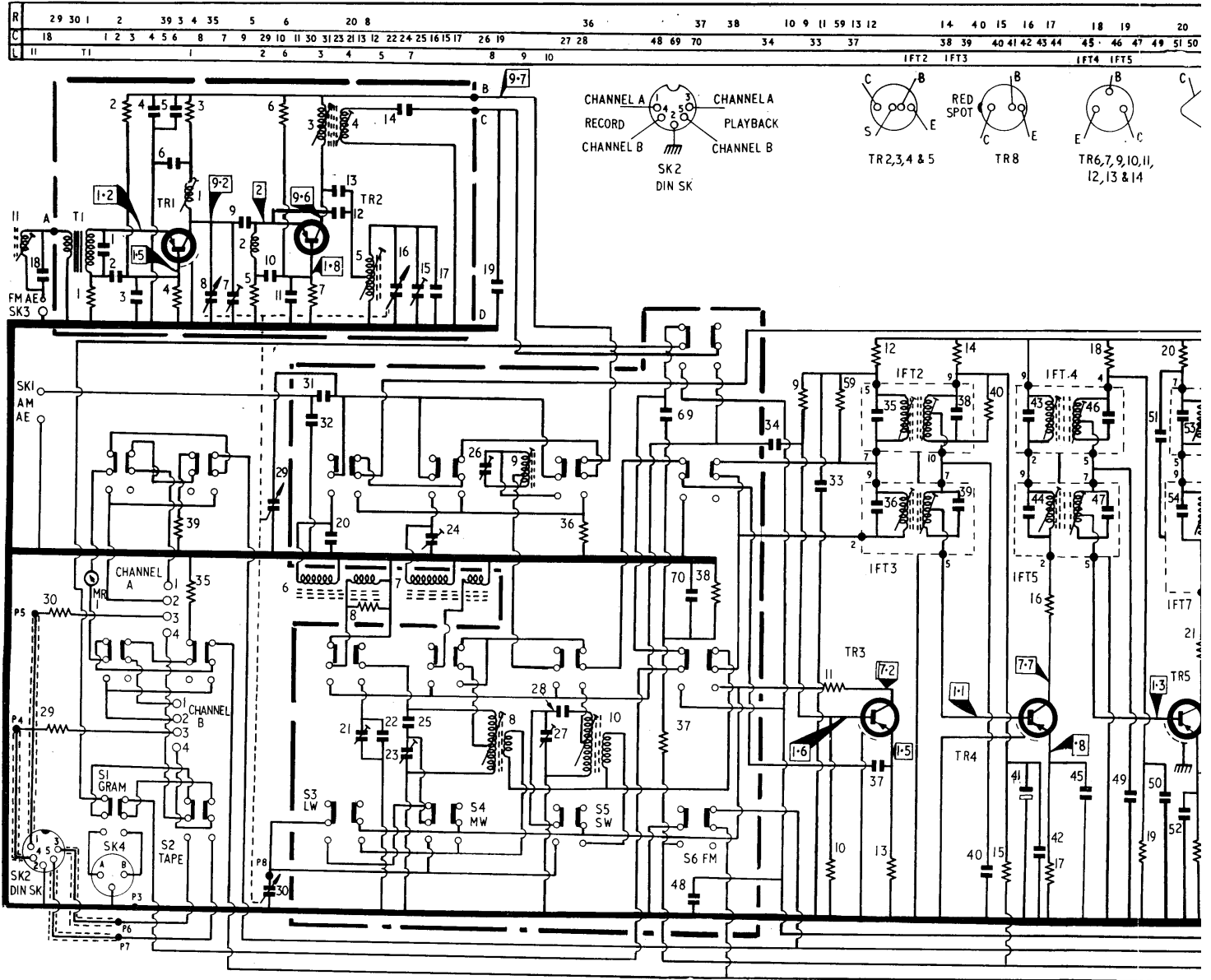
## EKCO SRG450 FERRANTI SRG1144 AM/FM STEREOGRAMS

- R45
- R46
- R47
- R48
- R49
- R50
- R59
- R85
- R86
- R87
- R88
- R89
- R90
- R91
- R92
- R93
- R94
- R95
- R96
- R97
- R98
- R101
- R102
- R103
- R104
- R105
- R106
- R107
- R108
- R109
- R110
- R111
- R112

RESISTORS				
R1	560	tuner	R21	220
R2	27K	tuner	R22	1K
R3	180	tuner	R23	100
R4	5K6	tuner	R24	1K5
R5	560	tuner	R25	470
R6	6K8	tuner	R26	330
R7	1K5	tuner	R27	22K
R8	1K	E2	R28	22K
R9	27K	F2	R29	47K
R10	6K8	F2	R30	47K
R11	330	F2	R31	33K
R12	100	F2	R32	470
R13	1K	F2	R33	1K
R14	82K	F2	R34	3K9
R15	12K	F2	R35	1K8
R16	220	F2	R36	470
R17	680	F2	R37	12K
R18	18K	F2	R38	470
R19	3K9	F2	R39	12K
R20	100	F2	R40	560
			R41	1K
			R42	560
			R43	270
			R44	

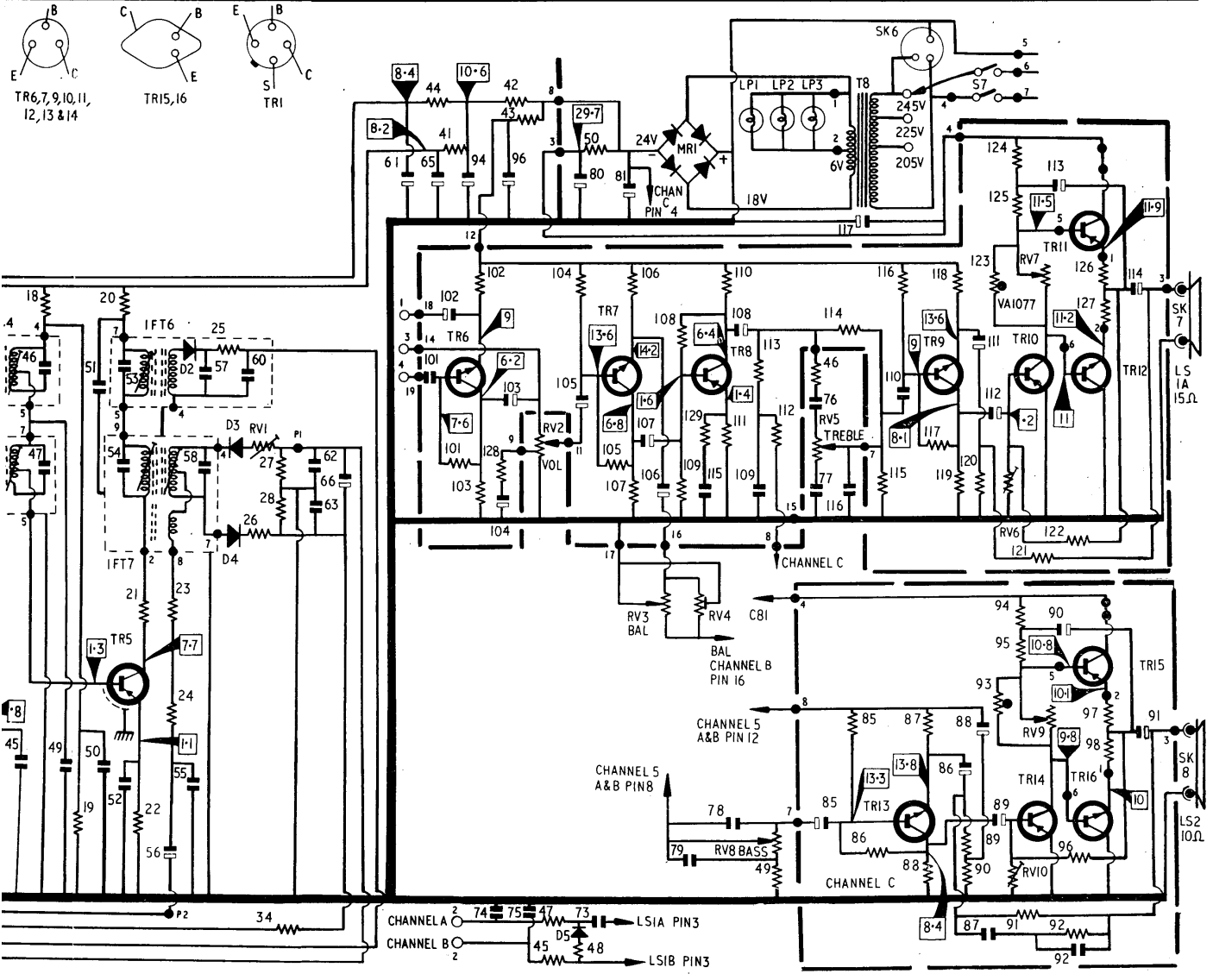
IFs. AM 470kc/s, FM 10.7mc/s.  
**Transistors.** TR1 AF178 FM RF amplifier, TR2 AF115 FM mixer, TR3 AF115 frequency changer, TR4 AF116 first IF amplifier, TR5 AF116 second IF amplifier, TR6 BC113 first audio, TR7 BC113 second audio, TR8 NKT214 (OC71) third audio, TR9 BC113 audio treble, TR10 AC128 driver, TR11/TR12 AC128/AC176 output pair, TR13 BC113 audio bass, TR14 AC128 driver, TR15/

**ALL-transistor AM/FM stereograms** covering L, M, S and VHF bands.  
**Mains.** 200-250V 50c/s.  
**Wavebands.** LW 1200-2000m (250-150kc/s), MW 185-572m (1650-525kc/s), SW 18.5-54.2m (16.25-5.5mc/s), VHF 87-108mc/s.



R45	2K2	F1	R113	8K2	B2	C16	gang	tuner	C49	2KpF	F2	C90	40mF	C2
R46	6K8	B2	R114	18K	B2	C17	3pF	tuner	C50	40KpF	F2	C91	1000mF	E3
R47	2K2	F3	R115	5K6	A2	C18	200pF	F2	C51	10KpF	F2	C92	1K5pF	D2
R48	680	F1	R116	27K	B1	C19	820pF	F2	C52	40KpF	F2	C94	200mF	F3
R49	3K3	E1	R117	68K	B1	C20	100pF	F2	C53	820pF	in IFT6	C96	1000mF	E3
R50	10	—	R118	330	B1	C21	2.25pF	F2	C54	220pF	in IFT7	C101	150KpF	B2
R59	39K	—	R119	2K2	B1	C22	300pF	F2	C55	10KpF	F3	C102	10mF	B2
R85	27K	D1	R120	33	B1	C23	2.25pF	F2	C56	1mF	F3	C103	10mF	B2
R86	68K	D1	R121	3K3	A2	C24	2.25pF	F2	C57	10KpF	in IFT6	C104	4mF	B2
R87	330	D1	R122	18K	A2	C25	360pF	F2	C58	68pF	in IFT7	C105	10mF	B2
R88	2K2	D1	R123	VA1077	A1	C26	2.25pF	F2	C59	30KpF	—	C106	10mF	B1
R89	33	D1	R124	330	A1	C27	2.25pF	F2	C60	10KpF	in IFT6	C107	10mF	B1
R90	68	D1	R125	470	A1	C28	5KpF	F2	C61	200mF	F3	C108	10mF	B2
R91	2K2	D2	R126	2.2	A2	C29	gang	F1	C62	1KpF	F3	C109	47KpF	A2
R92	220	D2	R127	2.2	A2	C30	gang	F1	C63	1KpF	F3	C110	10KpF	B1
R93	VA1077	C1	R128	100	A2	C31	3pF	F2	C65	200mF	F3	C111	40mF	B1
R94	120	C1	R129	560	B1	C32	12pF	F2	C66	4mF	—	C112	40mF	A1
R95	270	C2	<b>CAPACITORS</b>			C33	40KpF	F2	C69	150KpF	F2	C113	40mF	A2
R96	18K	C2	C1	30pF	tuner	C34	10KpF	F2	C70	10KpF	F2	C114	500mF	A2
R97	1	C2	C2	1KpF	tuner	C35	820pF	in IFT2	C73	470KpF	F3	C115	47KpF	B1
R98	1	C2	C3	1KpF	tuner	C36	120pF	in IFT3	C74	100KpF	F3	C116	3K3pF	F3
R101	2M2	B2	C4	10KpF	tuner	C37	10KpF	F2	C75	100KpF	F1	C117	4mF	F1
R102	22K	B2	C5	1KpF	tuner	C38	820pF	in IFT2	C76	1K5pF	E3	<b>POTENTIOMETERS</b>		F3
R103	22K	B2	C6	1KpF	tuner	C39	470pF	in IFT3	C77	68KpF	E3	RV1	1K	E3
R104	47K	B1	C7	4.20pF	tuner	C40	2KpF	F2	C78	33KpF	E1	RV2	10K	E3
R105	270K	B1	C8	gang	F1	C41	10mF	F2	C79	150KpF	E1	RV3	1K	E1
R106	2K2	B1	C9	2.2pF	tuner	C42	2KpF	F2	C80	3000mF	—	RV4	750-1K4	F1
R107	22K	B1	C10	330pF	tuner	C43	1KpF	in IFT4	C81	4500mF	—	RV5	100K	E3
R108	68K	B1	C11	1KpF	tuner	C44	120pF	in IFT5	C85	10mF	D1	RV6	1K	A1
R109	22K	B1	C12	6.8pF	tuner	C45	40KpF	F2	C86	40mF	D2	RV7	50	A1
R110	10K	B1	C13	47pF	tuner	C46	820pF	in IFT4	C87	100KpF	D2	RV8	50K	E1
R111	1K5	B1	C14	470pF	tuner	C47	470pF	in IFT5	C88	40mF	D2	RV9	20	C1
R112	10K	B2	C15	4.20pF	tuner	C48	10KpF	F2	C89	40mF	D1	RV10	1K	C1

18	19	20	21	22	23	24	34	25	26	27	28	41	44	101	102	103	42	43	128	RV2	50	105	RV3	108	109	129	110	111	113	112	49	46	114	115	116	117	118	115	120	123	124	125	RV6	121	122	126	127						
IFT4	IFT5	IFT6		IFT7		E		B		C		LFI		LP2		LP3		T8		SK6		SK7		SK8		LS1		LS2		LS3		LS4		LS5		LS6		LS7		LS8		LS9		LS10		LS11		LS12		LS13		LS14	





for maximum output. Change set and generator tuning to 14.5mc/s. Trim C27 and C26 for maximum output. Repeat last two operations for optimum output and calibration accuracy.

**FM IF.** Switch to VHF. Tune receiver to LF end of band. Disconnect C66. Connect sweep generator tuned to 10.7mc/s to base of TR3 via 10KpF low impedance capacitor. Connect oscilloscope to pin 1 (junction RV1/R27). Adjust cores of IFT3, IFT5 and IFT7 for maximum output consistent

with symmetry and band shape. Reconnect C66. Transfer oscilloscope lead to pin 2 (positive end C56). Check response for satisfactory "S" curve.

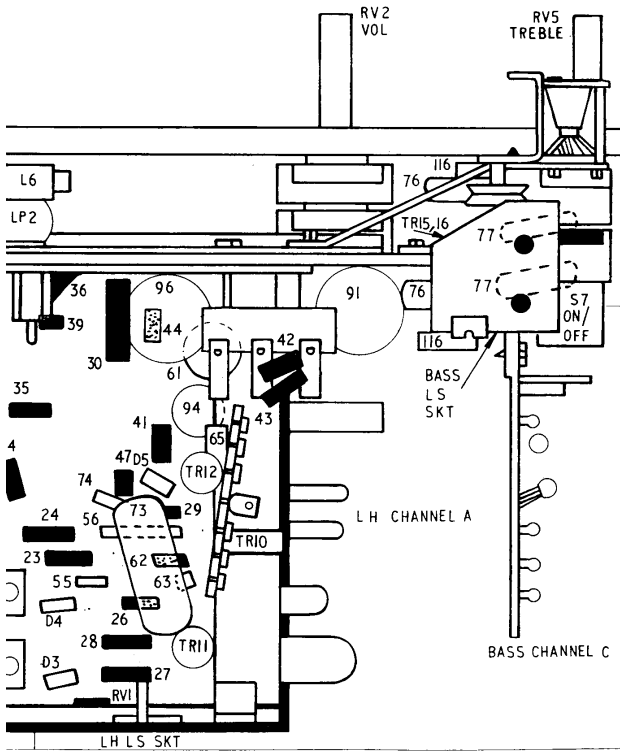
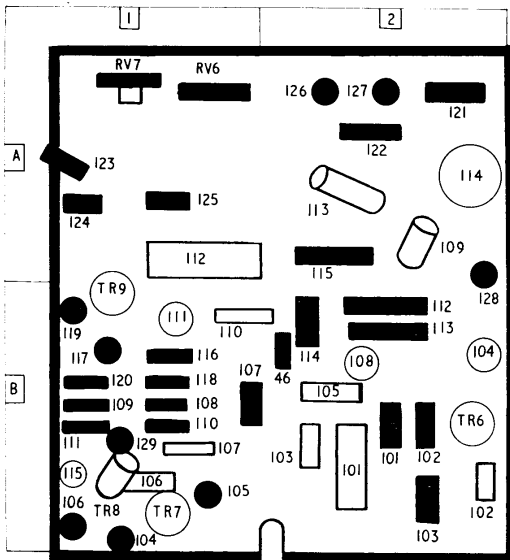
Disconnect C66. Connect generator output to FM aerial socket. Short circuit L11. Connect oscilloscope to pin 1 as before. Adjust cores of L3 and L4 for maximum output consistent with symmetry and band shape. Remove short circuit across L11. Adjust L11 for minimum response at 10.7mc/s.

**FM RF.** Reconnect C66. Set volume and tone controls to maximum. Connect sweep generator with 25kc/s deviation to aerial socket. Adjust L5 and L1 at 92mc/s, C15 and C7 at 102mc/s, for optimum sensitivity and accuracy of calibration. Set generator to 92mc/s  $\pm$  25kc/s deviation 10 $\mu$ V. Tune receiver for maximum output. Switch off modulation and adjust RV1 for minimum noise output.

**AUDIO ADJUSTMENTS**  
If output or driver transistor is replaced readjust presets as follows.

**Channels A and B.** Insert Avo on 1A range between TR11 (AC128) collector and supply. Connect scope across speaker of channel under test. Inject 1kc/s sine wave at pin 19 on audio panel. Increase input until clipping commences. Adjust RV6 so that peaks clip simultaneously. Remove input. Switch meter to 100mA range. Adjust RV7 to give 10mA quiescent current.

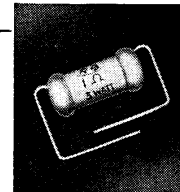
**Channel C.** Insert Avo on 1A range between TR15 (AD162) collector and supply. Connect scope across speaker. Inject 200c/s sine wave at pin 7 on audio panel. Increase input until clipping commences. Adjust RV10 so that peaks clip simultaneously. Remove input. Switch meter to 100mA range. Adjust RV9 to give 10mA quiescent.



## Wirewound Reliability

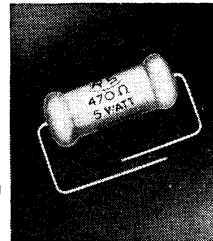


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+ Carefully controlled production  
= Top-class wirewound resistors.



### 3 WATT

28 values from 0.5 $\Omega$  to 270 $\Omega$  at 1/- each.



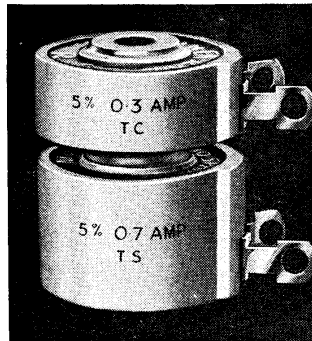
### 5 WATT

47 values from 15 $\Omega$  to 8.2k $\Omega$  at 1/2 each.



### 10 WATT

30 values from 15 $\Omega$  to 25k $\Omega$ . Prices 1/9 or 2/3 each depending on value.



### POWER SECTIONS

39 values from 7 $\Omega$  to 2k $\Omega$ . Price 1/9 or 2/3 each depending on value.

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