

Marconiphone

SERVICE MANUAL

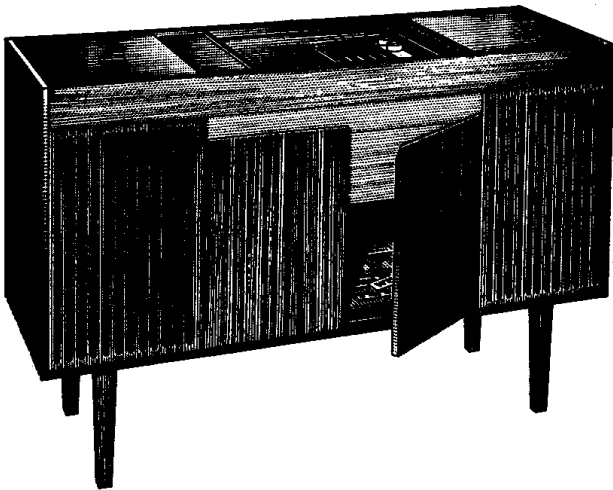


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THE MARCONIPHONE CO. LTD

Price One Shilling

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SPECIFICATION



Solid State Circuit—featuring twenty-two transistors and eight diodes, in a mains powered 'cool' chassis.

Waveranges—Short: 16.5-51.6 metres (18.2-5.8 Mc/s).
Medium: 185-566 metres (1620-530 Kc/s).
Long: 1120-2025 metres (268-148 Kc/s).
VHF/FM: 87.5-101 Mc/s.

Record Changer—Garrard type 3000LM with Sonotone 9TAHC high compliance cartridge fitted with diamond LP stylus.

Push-pull Power Output—5.5 watts (speech and music). 2 watts (continuous tone per channel).

Loudspeakers—Two 8 inch x 5 inch, high sensitivity, PM. Speech coil impedance 25Ω.

Aerials—8 inch rotatable ferrite rod for MW and LW. Internal dipole for VHF/FM.

External Sockets—AM aerial, VHF/FM dipole, and Tape input and output (100KΩ impedance).

Mains Voltage Range—200-250 volts AC 50 c/s.

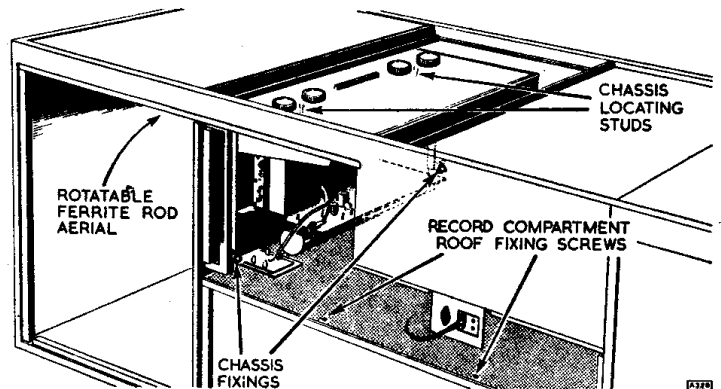
Power Consumption—Radio: 15 watts. Gram: 30 watts.

Cabinet Dimensions—46½ inches wide x 30 inches high x 16½ inches deep.

DISMANTLING FOR SERVICE

RECORD CHANGER REMOVAL

1. Remove central back cover and disconnect pickup and motor lead plugs from chassis.
2. With access from rear of cabinet, pivot clips on transit screws to enable them to pass through motor board, then lift changer clear of cabinet.



CHASSIS REMOVAL

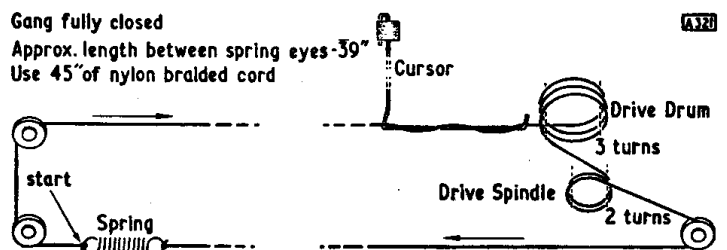
1. Pull off rotary control knobs.
2. Remove central back cover and slide out record compartment roof, following removal of two screws from rear edge.
3. Detach plug connections from chassis (AM and FM aerial, ferrite rod, pickup, tape, loudspeaker and motor).
4. Remove two chassis fixing nuts and washers, see illustration.
5. Pull chassis clear of locating studs, lower slightly to clear scale, then withdraw out of cabinet.

DRIVE CORD REPLACEMENT

Gang fully closed

Approx. length between spring eyes 39"

Use 45" of nylon braided cord



FM

IF CIRCUITS

Use a signal generator providing Band II coverage, also 10.7 Mc/s AM (30% modulated) and 10.7 Mc/s FM signals (25 Kc/s deviation) at an impedance of 75 ohms.

1. Switch to VHF, and allow the receiver and test equipment to warm up for about ten minutes; set volume control 90° back from maximum with treble and bass controls set to '0'.

2. Inject 10.7 Mc/s FM signal between tags 63 and 62 on IF board and adjust L74, L73, L69 and L65 for maximum output.

3. AM rejection check—

(a) Switch signal generator to 10.7 Mc/s AM and tune L74 for minimum output.

(b) Switch signal generator to 10.7 Mc/s FM and check that FM output has been retained. If maximum AM rejection does not coincide with maximum FM output, L74 should be tuned for maximum rejection at the expense of a slight reduction in FM output.

Reset signal generator to 100µV FM output and recheck operations 1, 2 and 3.

RF CIRCUITS

Check that the cursor coincides with the 'zero' marker on scale diffuser when the gang is fully closed.

1. Tune receiver to FM 94 Mc/s marker on scale diffuser.

2. Inject 94 Mc/s FM signal into FM aerial socket (SKT3) and adjust L9, L8 and L5 for maximum output.

Repeat as necessary for correct calibration.

AUDIO CHECK

GRAM

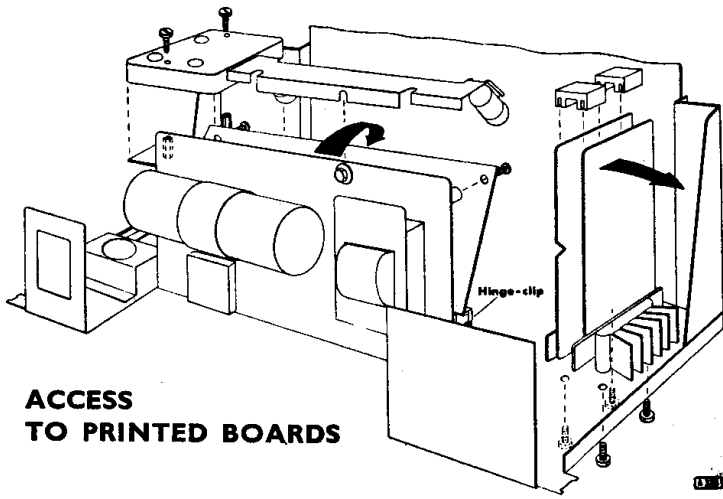
Connect a 25 ohm impedance output meter in place of each loudspeaker. Alternatively, examine output waveform on an oscilloscope connected between tag 109 (Audio Board) and chassis. Switch to gram and turn both treble and bass controls fully clockwise, then connect audio oscillator via 500pF capacitor between tags 141 and 144.

Inject a 280 mV, 800 c/s audio signal and note output; for a correctly functioning amplifier this should be approximately 2 watts. Transfer input between tags 142 and 144 and similarly check other amplifier.

RADIO

Depress FM button and connect audio oscillator to contact 2 of switch S2A, inject 7 mV at 800 c/s via 8µF capacitor and note output on each channel: this should be 200 mW for a correctly functioning amplifier.

Stylus Replacement. Please quote Part No. 418/1/00073/104 when ordering replacement turnover high compliance stylus.



ALIGNMENT DATA

Procedure. Remove chassis as described in 'Dismantling for Service'. Connect an output meter adjusted for 25 ohm impedance in place of LH or RH loudspeaker, or a 20,000 ohm/volt meter set to a suitable AC voltage range across the LH or RH loudspeaker socket. Zero, trim and pad markers are provided on the scale diffuser. Throughout alignment the signal input should be adjusted to maintain an audio output of 50-100 mW.

AM

IF CIRCUITS

Switch receiver to MW; turn gang to maximum capacitance position and volume control fully clockwise. Inject a 475 Kc/s modulated signal, via a 0.1µF capacitor, between contact 2 of switch S5C and chassis, and adjust L71, L68, L67 and L64, in that order, for maximum output.

Switch to SW and adjust L36 for maximum output.

RF CIRCUITS

Align MW first. 30% modulated signals should be injected into AM aerial/earth socket (SKT1) via a 20pF series capacitor. With the tuning gang at maximum, check that the cursor coincides with the zero marker on scale diffuser.

Range	Frequency	Cursor Position	Adjust
MW	600 Kc/s 1400 Kc/s	MW pad marker MW trim marker	L63, L162* C 43, C32
SW	6.7 Mc/s 15.8 Mc/s	MW pad marker MW trim marker	L35, L31 C39, C35
LW	220 Kc/s	LW 220 Kc/s marker	C 42, L163†

*Adjust by sliding ring along ferrite rod.

†Adjust by sliding coil former along ferrite rod.

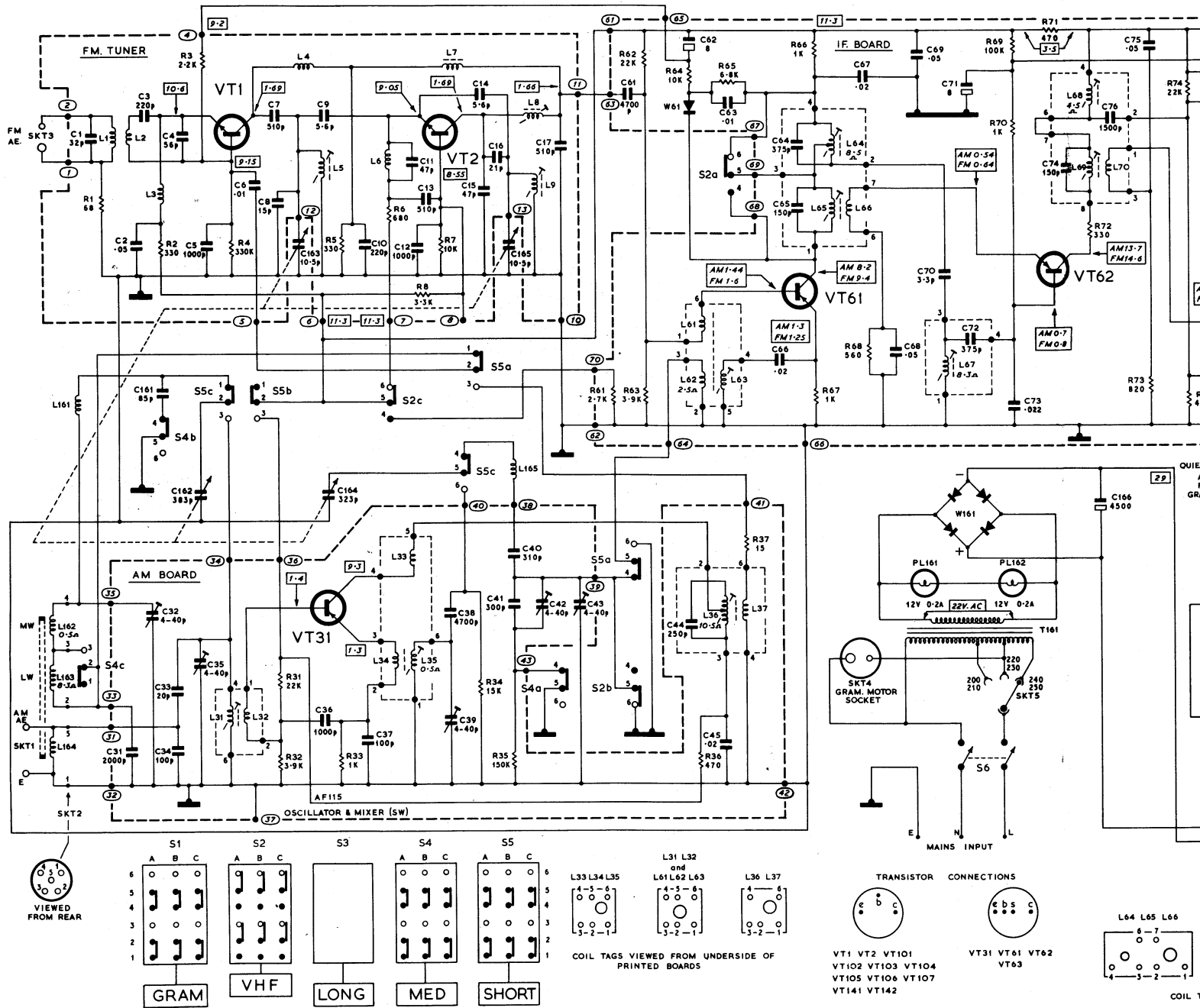
RF AMP (VHF, LW, MW) SE1002

IF AMP (SW)

OSCILLATOR & MIXER (VHF) SE1001 of SE1002

AGC DIODE (FM) OSCILLATOR & MIXER (AM) AF116 IF AMPLIFIER (FM & SW)

IF AMPLIFIER AF116



CIRCUIT DIAGRAM NOTES

Voltage measurements shown in rectangles were taken relative to positive chassis line (except where otherwise indicated) with a 20,000 ohm/volt meter, and with a mains input of 245V. DC resistance readings are shown against inductors where these are 0.5 ohm or greater. Ringed figures indicate printed board tag connection points.

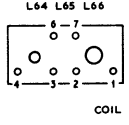
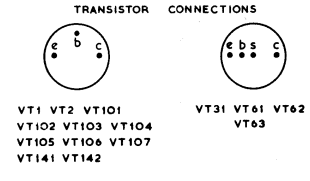
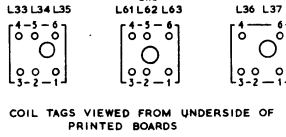
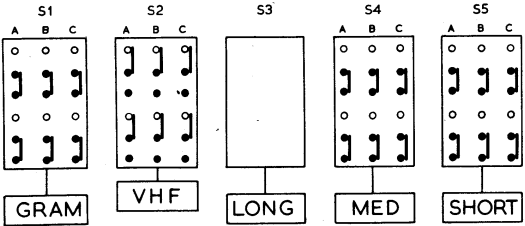
Audio Boards

VT101 and VT102 form conventional audio amplifying stages incorporating treble and bass tone control circuits. VT103 is an audio driver stage with two stabilizing diodes,

series connected, in its collector lead and feeding into the push-pull driver stage. The push-pull driver stage is arranged as a complementary circuit using PNP and NPN transistors, the output being directly coupled to the push-pull power output stage.

R113 Preset Adjustment

Preferred Method. Connect an oscilloscope to tag 109 with the 'earth' side of the oscilloscope connected to the chassis positive line. Apply a 1 Kc/s signal to the appropriate



AMPLIFIER
AF114

IF. AMPLIFIER
AF116

DETECTOR & AGC(AM)
OA79

RATIO DETECTOR (FM)
2 x OA79

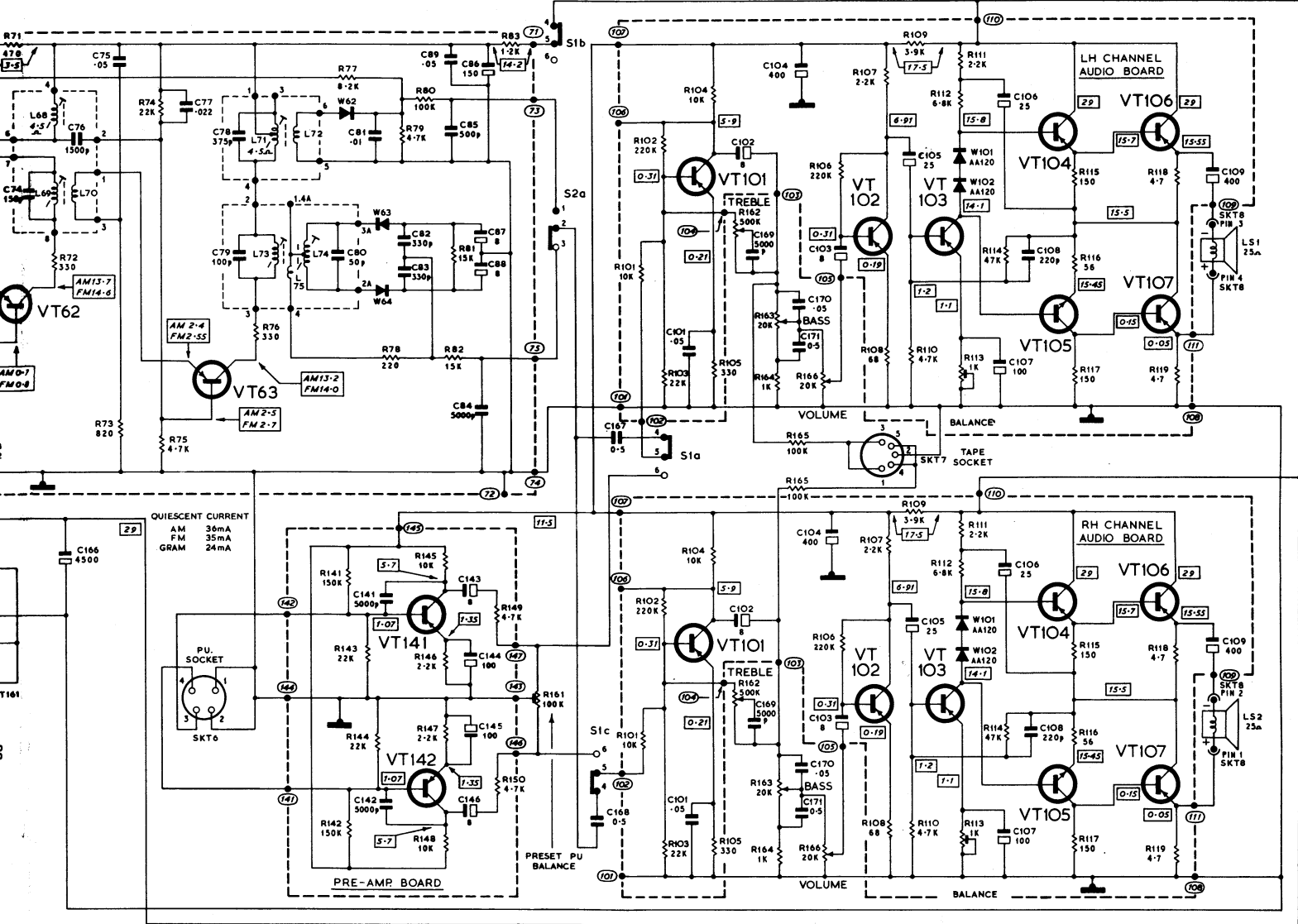
AF. AMPLIFIER
AC156

AF. AMPLIFIER
AC156

AUDIO DRIVER
AC165

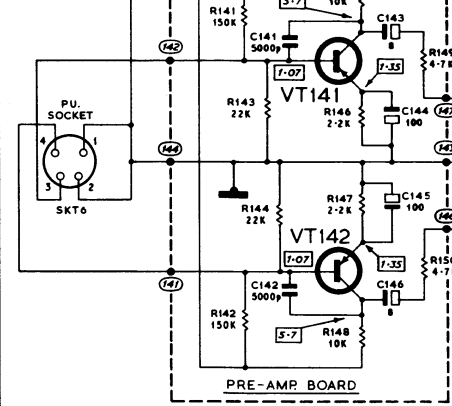
COMPLEMENTARY PUSH-PULL
DRIVER STAGE
AC166
AC168

PUSH-PULL POWER
OUTPUT STAGE
2 x AC167



QUIESCENT CURRENT

AM	36mA
FM	35mA
GRAM	24mA



2 x AC156
PU. PRE-AMPLIFIER

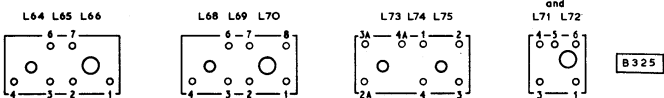
AC156
AF. AMPLIFIER

AC156
AF. AMPLIFIER

AC165
AUDIO DRIVER

AC166
AC168
COMPLEMENTARY PUSH-PULL
DRIVER STAGE

2 x AC167
PUSH-PULL POWER
OUTPUT STAGE



COIL TAGS VIEWED FROM UNDERSIDE OF PRINTED BOARDS

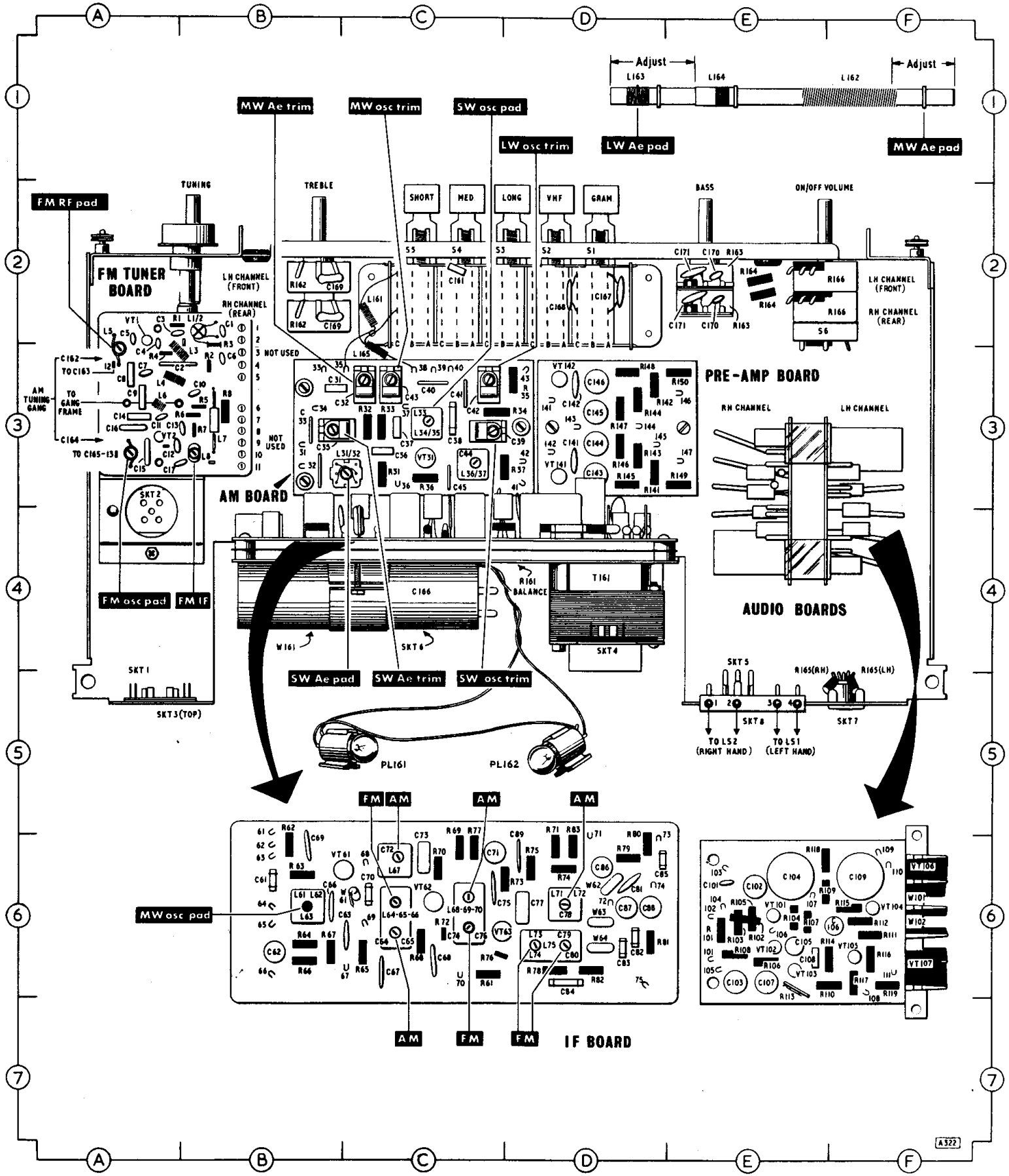
input (tape socket). Set the volume control to maximum and increase signal amplitude until clipping of the output waveform occurs. R113 should then be adjusted until the clipping is symmetrical on positive and negative going peaks. Similarly adjust other channel.

Alternative Method. With no signal input and volume control at minimum, the potential at the collector of VT107 relative to chassis is adjusted by R113 to be approximately 1 volt higher than half of the DC supply as measured across C104.

Please Note: Components W101, W102, VT106 and VT107 are fitted into the 'heat sink' and a coating of silicone grease has been given to each to assist thermal conductivity. It is important that when replacing these transistors a coating of similar grease is applied in order to maintain the cooling action.

Pickup Balance. The pickup balance control R161 is preset during manufacture and will not normally require readjustment unless a replacement pickup cartridge is fitted.

LOCATION OF COMPONENTS AND ALIGNMENT ADJUSTMENTS



Location Grid Reference

C		L		R (Contd)
C1	B2	L1	B2	R107 E7
C2	AB3	L2	B2	R108 E7
C3	A2	L3	B3	R109 EF6
C4	A3	L4	A3	R110 EF7
C5	A2	L5	A2	R111 F6
C6	B3	L6	A3	R112 F6
C7	A3	L7	B3	R113 E7
C8	A3	L8	B3	R114 EF6
C9	A3	L9	A3	R115 F6
C10	B3	L31	BC3	R116 F7
C11	A3	L32		R117 F7
C12	A3	L33		R118 E6
C13	A3	L34	C3	R119 F7
C14	A3	L35		R141 D3
C15	A3	L36	C3	R142 DE3
C16	A3	L37		R143 D3
C17	A3	L61		R144 D3
C31	B3	L62	B6	R145 D3
C32	BC3	L63		R146 D3
C33	B3	L64	BC6	R147 D3
C34	B3	L65		R148 D3
C35	B3	L66		R149 E3
C36	C3	L67	B6	R150 E3
C37	C3	L68		R161 D4
C38	C3	L69	C6	R162 B2
C39	D3	L70		R163 E2
C40	C3	L71	CD6	R164 E2
C41	C3	L72		R165 (RH) E4, 5
C42	C3	L73		R165 (LH) F4, 5
C43	C3	L74	C6, 7	R166 F2
C44	C3	L75		
C45	C3	L161	C2	
C61	B6	L162	*F1	
C62	B7	L163	*D1	
C63	B6	L164	*E1	
C64	B6	L165	C3	
C65	B6			S
C66	B6			S1 D2
C67	B7			S2 D2
C68	C7			S3 CD2
C69	B6			S4 C2
C70	B6	R1	A2	S5 C2
C71	C6	R2	B3	S6 EF2
C72	B6	R3	B3	SKT1 A5
C73	C6	R4	A3	SKT2 AB4
C74	C6	R5	B3	SKT3 AB5
C75	C6	R6	AB3	SKT4 D4
C76	C6	R7	B3	SKT5 E4
C77	C6	R8	B3	SKT6 C4
C78	C6	R31	C3	SKT7 F5
C79	C6	R32	C3	SKT8 E5
C80	CD7	R33	C3	
C81	D6	R34	D3	T
C82	D7	R35	D3	T161 D4
C83	D7	R36	C3	
C84	CD7	R37	D3	
C85	D6	R61	C7	V
C86	D6	R62	B6	VT1 A2
C87	D6	R63	B6	VT2 A3
C88	D6	R64	B6	VT31 C3
C89	C6	R65	B7	VT61 B6
C101	E6	R66	B7	VT62 C6
C102	E6	R67	B6	VT63 C6
C103	E7	R68	C7	VT101 E6
C104	E6	R69	C6	VT102 E6, 7
C105	E6	R70	C6	VT103 E7
C106	EF6	R71	C6	VT104 F6
C107	E7	R72	C6	VT105 F6
C108	E7	R73	C6	VT106 F6
C109	F6	R74	C6	VT107 F7
C141	D3	R75	C6	VT141 D3
C142	D3	R76	C7	VT142 D3
C143	D3	R77	C6	
C144	D3	R78	C7	
C145	D3	R79	D6	
C146	D3	R80	D6	
C161	C2	R81	D6	W
C162	A3	R82	D7	W61 B6
C163	A3	R83	CD6	W62 D6
C164	A3	R101	E6	W63 D6
C165	A3	R102	E6	W64 D6
C166	C4	R103	E6	W101 F6
C167	D2	R104	E6	W102 F6
C168	D2	R105	E6	W161 B4
C169	B2	R106	E7	
C170	B2			
C171	E2			

*Part ferrite rod aerial assy. fitted in LH
LS compartment (viewed from rear).

CAPACITORS

Ref.	Section	Value	Tol.	Rating	Function and Part No.
C1	FM	32pF	5%	500V	L1 tuning
C2	FM	.05μF	+80-20%	200V	VT1 emitter bypass
C3	FM	220pF	10%	500V	VT1 emitter coupling
C4	FM	56pF	5%	500V	L2 tuning
C5	FM	1000pF	+80-20%	500V	VT1 base bias decoupling
C6	FM	.01μF	+50-25%	10V	AM coupling
C7	FM	510pF	10%	500V	{ AM—Part low pass filter FM—RF tuning coupling
C8	FM	15pF	±0.25pF	750V	Part RF amp. tuning
C9	FM	5.6pF	±0.25pF	750V	VT2 emitter coupling
C10	FM	220pF	10%	500V	Part FM rejector
C11	FM	47pF	5%	500V	L6 tuning
C12	FM	1000pF	+80-20%	500V	VT2 base decoupling
C13	FM	510pF	10%	500V	Part 10.7 Mc/s rejector
C14	FM	5.6pF	±0.25pF	750V	Osc. feedback
C15	FM	47pF	±0.5pF	100V	Part osc. and IF tuning
C16	FM	21pF	±0.5pF	100V	Part oscillator and IF tuning
C17	FM	510pF	10%	500V	Part 10.7 Mc/s and AM filter
C31	AM	2000pF	20%	500V	AM aerial coupling
C32	AM	4-40pF	Preset		AM aerial trimmer 3E4004
C33	AM	20pF	±0.5pF	350V	} SW aerial coupling
C34	AM	100pF	2%	350V	
C35	AM	4-40pF	Preset		SW aerial trimming 3E4004
C36	AM	1000pF	20%	500V	VT31 base decoupling
C37	AM	100pF	10%	500V	VT31 emitter bypass
C38	AM	4700pF	20%	500V	SW oscillator fixed padder
C39	AM	4-40pF	Preset		SW oscillator trimmer 3E4004
C40	AM	310pF	2%	200V	Fixed MW padder
C41	AM	300pF	2%	200V	Fixed LW trimmer
C42	AM	4-40pF	Preset		LW trimmer 3E4004
C43	AM	4-40pF	Preset		MW oscillator trimmer 3E4004
C44	AM	250pF	2.5%	20V	L36 tuning
C45	AM	.02μF	-20+50%	200V	VT31 collector decoupling
C61	IF	4700pF	20%	300V	VT61 base coupling
C62	IF	8μF	Elec	6V	Aux. AGC decoupling 3E0001/1
C63	IF	.01μF	-20+40%	300V	W61 decoupling
C64	IF	375pF	2.5%	20V	L64 tuning
C65	IF	150pF	2.5%	20V	L65 tuning
C66	IF	.02μF	-20+50%	200V	VT61 emitter bypass
C67	IF	.02μF	20%	250V	VT61 collector load decoupling
C68	IF	.05μF	-20+80%	200V	VT62 emitter bypass
C69	IF	.05μF	-20+80%	200V	IF RF decoupling
C70	IF	3.3pF	±0.25pF	500V	AM IF coupling 3E0001/1
C71	IF	8μF	Elec	6V	AGC decoupling
C72	IF	375pF	2.5%	20V	Part L67 tuning
C73	IF	.022μF	20%	250V	{ FM—VT62 base bias decoupling AM—Part L67 tuning and base matching
C74	IF	150pF	2.5%	20V	L69 tuning
C75	IF	.05μF	-20+80%	200V	VT63 emitter bypass
C76	IF	1500pF	2.5%	20V	Part L68 tuning
C77	IF	.022μF	20%	250V	{ FM—VT63 base decoupling AM—Part L68 tuning and base matching
C78	IF	375pF	2.5%	20V	L71 tuning
C79	IF	100pF	2.5%	20V	L73 tuning
C80	IF	50pF	2.5%	20V	L74 tuning
C81	IF	.01μF	-20+40%	300V	Part AM IF filter
C82	IF	330pF	} 10%	500V	Ratio detector decoupling
C83	IF	330pF			
C84	IF	5000pF	20%	500V	Part de-emphasis
C85	IF	500pF	10%	500V	Part AM IF filter
C86	IF	150μF	Elec	18V	Supply decoupling 3E0003/3
C87	IF	8μF	Elec	6V	} Ratio detector stabilizing
C88	IF	8μF	Elec	6V	
C89	IF	.05μF	-20+80%	200V	Supply decoupling
C101	AF	.05μF	+50-20%	3V	VT101 emitter bypass and treble compensation
C102	AF	8μF	Elec	6V	VT101 collector output 3E0001/1
C103	AF	8μF	Elec	6V	VT102 base input coupling 3E0001/1
C104	AF	400μF	Elec	15V	Pre-amplifier supply decoupling 3E0002/1
C105	AF	25μF	Elec	25V	VT102-VT103 coupling 3E0001/2
C106	AF	25μF	Elec	25V	Part bootstrap 3E0001/2
C107	AF	100μF	Elec	6V	VT103 emitter bypass 3E0001/3
C108*	AF	220pF	20%	500V	Neg. feedback phase correction
C109	AF	400μF	Elec	15V	LS coupling 3E0002/1
C141	Pre-amp	5000pF	20%	500V	Pick-up compensation
C142	Pre-amp	5000pF	20%	500V	Pick-up compensation
C143	Pre-amp	8μF	Elec	6V	VT141 collector output 3E0001/1
C144	Pre-amp	100μF	Elec	6V	VT141 emitter bypass 3E0001/3
C145	Pre-amp	100μF	Elec	6V	VT142 emitter bypass 3E0001/3
C146	Pre-amp	8μF	Elec	6V	VT142 collector output 3E0001/1
C161	Chassis	85pF	2.5%	120V	LW aerial trimmer
C162	Chassis	383pF	Variable		} Tuning gang assy. 3E4001
C163	Chassis	10.5pF	Variable		
C164	Chassis	323pF	Variable		
C165	Chassis	10.5pF	Variable		FM oscillator tuning
C166	Chassis	4500μF	Elec	30V	Supply reservoir 3E0006/1
C167	Chassis	0.5μF		3V	Audio amplifier coupling LH
C168	Chassis	0.5μF		3V	Audio amplifier coupling RH
C169	Chassis	5000pF	20%	3V	Part treble control
C170	Chassis	.05μF	+50-20%	3V	} Part bass control
C171	Chassis	0.5μF	+50-20%	3V	

*Not fitted in some receivers

COMPONENT DETAILS

RESISTORS

All $\frac{1}{4}$ watt carbon, 10% tolerance unless otherwise stated.

Ref.	Section	Value	Tol.	Rating	Function and Part No.
R1	FM	68 Ω			Static discharge
R2	FM	330 Ω			VT1 emitter stabilizing
R3	FM	2.2K Ω			AGC feed
R4	FM	330K Ω			Part VT1 bias
R5	FM	330 Ω			VT1 collector AM load
R6	FM	680 Ω			VT2 emitter stabilizing
R7	FM	10K Ω			VT2 base bias potential divider
R8	FM	3.3K Ω			VT31 base bias potential divider
R31	AM	22K Ω			VT31 emitter stabilizing
R32	AM	3.9K Ω			SW oscillator damping
R33	AM	1K Ω			MW oscillator damping
R34	AM	15K Ω			Part VT31 collector decoupling
R35	AM	150K Ω			L37 damping
R36	AM	470 Ω			DC shunt load
R37	AM	15 Ω			VT61 base bias potential divider
R61	IF	2.7K Ω			Aux. AGC feed
R62	IF	22K Ω			W61 load
R63	IF	3.9K Ω			VT61 collector decoupling and part VT1 base bias
R64	IF	10K Ω			VT61 emitter stabilizing
R65	IF	6.8K Ω			VT62 emitter stabilizing
R66	IF	1K Ω			Part VT62 base bias
R67	IF	1K Ω			VT62 bias feed
R68	IF	560 Ω			Supply line decoupling
R69	IF	100K Ω			VT62 FM limiter control
R70	IF	1K Ω			VT63 emitter stabilizing
R71	IF	470 Ω			VT63 base bias potential divider
R72	IF	330 Ω			VT63 FM limiter control
R73	IF	820 Ω			AM AGC feed
R74	IF	22K Ω			Ratio detector current limiter
R75	IF	4.7K Ω			AM detector load
R76	IF	330 Ω			Part AM IF filter
R77	IF	8.2K Ω			Ratio detector load
R78	IF	220 Ω			Part de-emphasis
R79	IF	4.7K Ω			IF DC dropper and decoupling
R80	IF	100K Ω			Audio coupling
R81	IF	15K Ω			VT101 base bias potential divider
R82	IF	15K Ω			VT101 collector load
R83	IF	1.2K Ω			VT101 emitter stabilizing
R101	AF	10K Ω			VT102 base bias
R102	AF	220K Ω			VT102 collector load
R103	AF	22K Ω			VT102 emitter stabilizing
R104	AF	10K Ω			Supply line decoupling
R105	AF	330 Ω			VT103 base bias
R106	AF	220K Ω			Part bootstrap
R107	AF	2.2K Ω			Part VT103 collector load
R108	AF	68 Ω			Preset driver stage potential balance 3E5001/1
R109	AF	3.9K Ω			Negative feedback and part VT103 base bias
R110	AF	4.7K Ω			VT104 emitter load
R111	AF	2.2K Ω			VT105 emitter stabilizing
R112	AF	6.8K Ω			VT105 collector load
R113	AF	1K Ω			VT106 emitter stabilizing
R114	AF	47K Ω			VT107 emitter stabilizing
R115	AF	150 Ω			Part VT141 base bias
R116	AF	56 Ω			Part VT142 base bias
R117	AF	150 Ω			Part VT141 base bias
R118	AF	4.7 Ω	$\pm 0.5\Omega$		Part VT142 base bias
R119	AF	4.7 Ω	$\pm 0.5\Omega$		VT141 collector load
R141	Pre-amp	150K Ω			VT141 emitter stabilizing
R142	Pre-amp	150K Ω			VT142 emitter stabilizing
R143	Pre-amp	22K Ω			VT142 collector load
R144	Pre-amp	22K Ω			Balance feed LH
R145	Pre-amp	10K Ω			Balance feed RH
R146	Pre-amp	2.2K Ω			Pickup balance control 3E1004
R147	Pre-amp	2.2K Ω			Treble control 3E1003/1
R148	Pre-amp	10K Ω			Bass control 3E1002/1
R149	Pre-amp	4.7K Ω			Part bass control
R150	Pre-amp	4.7K Ω			Tape recorder isolating
R161	Chassis	100K Ω	Lin pot	Preset	Volume control 3E1001/1
R162	Chassis	500K Ω	Log pot		
R163	Chassis	20K Ω	Log pot		
R164	Chassis	1K Ω			
R165	Chassis	100K Ω			
R166	Chassis	20K Ω	Log pot		

INDUCTORS

Ref.	Section	Description	Part No.
L1-L2	FM	VHF-FM aerial input transformer	3D1007
L3	FM	RF choke	3D8003
L4	FM	VHF RF filter choke	3D8003
L5	FM	FM RF tuning	3D1007
L6	FM	Emitter loading and part 10.7 Mc/s rejector	3D8002
L7	FM	AM filter choke	3D8001
L8	FM	10.7 Mc/s filter	3D0016
L9	FM	FM osc. tuning	3D1008
L31	AM	SW aerial tuning	3D1003
L32	AM	VT31 base coupling	3D1005
L33-L34-L35	AM	SW oscillator transformer	3D0014
L36-L37	AM	SW IF transformer	3D1001
L61-L62-L63	IF	AM oscillator transformer	3D0001
L64	IF	Part AM IF bandpass coil	3D0004
L65-L66	IF	FM IF transformer	3D0006
L67	IF	Part AM IF bandpass coil	3D0012
L68	IF	AM IF coil	3D0009
L69-L70	IF	FM IF transformer	3D8003
L71-L72	IF	AM IF transformer	3D8003
L73-L74	IF	FM ratio detector transformer	3D8003
L161	Chassis	VHF choke	3D8003
L165	Chassis	VHF choke	3D8003

MISCELLANEOUS

Ref.	Section	Description	Part No.
LS1-LS2	Cabinet	8 in. x 5 in. loudspeaker 25 Ω impedance	3E3004
L162-L163-L164	Cabinet	Ferrite rod aerial assy. (MW, LW and coupling coils)	3F0005
S1-S5	Chassis	Push-button switch	3E2001
S6	Chassis	Mains ON-OFF switch (with R166)	3F6003
SKT1, SKT3	Chassis	Aerial socket panel (FM aerial plug 9291 AM aerial plugs 2812, 2812/1)	3F6003
SKT2	Chassis	Ferrite rod aerial socket	3F6/032
SKT4	Chassis	Gram motor mains input (2-pin plug 3F6014)	Part T161
SKT5	Chassis	Mains voltage selector socket (selector plug 3F6005)	3F6007
SKT6	Chassis	PU socket (4-pin plug 3F6011)	3F6006
SKT7	Chassis	Tape socket	3F6009
SKT8	Chassis	Loudspeaker socket (4-pin plug 3F6001)	3F6002
T161	Chassis	Mains transformer	3D3002
W161	Chassis	Mains rectifier (LT120VA)	3E9001

REPLACEMENT PARTS LIST

Description	Part No.
Cabinet	3A0001/1
Cabinet back (screw SA8P16/F; special washer 9046)	3A1002/1
Speaker compartment back	3A1003
Control knobs (clip 3L3001)	3C0001/3
Volume on-off	3C0001/5
Treble, Bass	3C0001/9
Tuning	3B6003
Push-buttons (5)	3B5001
Cursor (felt pad 3F7001)	3F5001
Drive drum	3F6004
Lampholder	3A7018
Scale	3A9001/1
Scale diffuser	3A2002/1
Control panel	3M1007
AE socket and tape panel assy (cabinet)	3M1007

When ordering replacement components, please quote Model number and include the description or function given with part number where possible. The manufacturers reserve the right to vary specifications or use alternative materials as may be deemed necessary or desirable at any time.

BRITISH RADIO CORPORATION LIMITED

Service Depots

NOP 1214

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