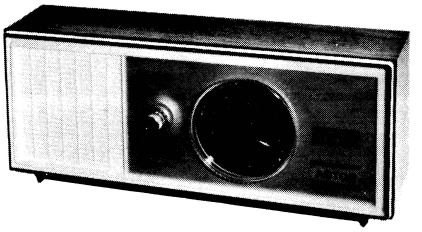
MODELS ME 025 — MF 027

ASTOR



SERVICE DATA

SPECIFICATIONS

Tuning Range	—	525 — 1605 KHz.
Intermediate Frequency	—	455 KHz.
Supply Source	—	240 Volts, 50 Hz.
Power Consumption	—	6 Watts approx.

MF 027 is identical to ME 025.

ACCESS TO INTERIOR

Unplug mains lead at power point. Remove two screws from rear and two screws from base. Cabinet body can now be removed from front section.

ALIGNMENT

EQUIPMENT: Signal generator
Output meter 15 ohm.

CONDITION: Volume control maximum
Output meter in place of speaker.

I.F. ALIGNMENT

With tuning gang fully open, apply 455 KHz signal through a .1uF capacitor to pin marked "AER" on the printed circuit board. Peak cores in IFT. 3, IFT. 2 and IFT. 1 in that order for maximum output on meter. Repeat as necessary.

R.F. ALIGNMENT

Connect 2 ft. of wire to output of signal generator and arrange it into a vertical position. Place receiver approximately 1 ft. away from this wire with the rod aerial in a horizontal position. Loosen three screws in centre of tuning disc, and, with the tuning gang fully closed, set the cursor accurately on the low frequency end of travel spot. Secure in this position by tightening screws.

Tune to 600 KHz spot on dial, and, with generator at this frequency, peak oscillator trimmer for maximum output.

Tune to 1400 KHz spot on dial, and, with generator at this frequency, peak oscillator trimmer for maximum output. Repeat until both frequencies are correct.

Tune again to 600 KHz spot and adjust peaking ring on rod aerial for maximum, and at 1400 KHz, adjust aerial trimmer for maximum output. Repeat as necessary.

7135-983-01

RADIO CORPORATION PTY. LTD.
DIVISION OF
ELECTRONIC INDUSTRIES LTD.

MARCH, 1972

PARTS LISTS

CAPACITORS

Circuit No.		Description	W.	Tol. ±%	Part Number
1		Two Gang Tuning Capacitor			4000-028-06
2		Trimmer 5—30 pF			4000-023-01
3	.01uF	Polyester	100	10	4009-014-38
4	.01uF	Polyester	100	10	4009-014-38
5	220pF	Polystyrene	100	5	4004-005-03
6		Trimmer 5—15 pF			4000-024-01
7					
8	.01uF	Ceramic	25	—	4008-039-10
9	.01uF	Ceramic	25	—	4008-039-10
10					
11	4.7uF	Electrolytic	25	—	4005-055-05
12	220pF	Polystyrene	100	5	4004-005-03
13	.01uF	Ceramic	25	—	4008-039-10
14	220pF	Polystyrene	100	5	4004-005-03
15	.1uF	Polyester	50	10	4009-008-49
16	.01uF	Ceramic	25	—	4008-039-10
17	10uF	Electrolytic	16	—	4005-007-26
18	3.3uF	Electrolytic	25	—	4005-058-02
19	.01uF	Ceramic	25	—	4008-039-10
20					
21	3.3uF	Electrolytic	25	—	4005-058-02
22	.22uF	Polyester	100	10	4009-007-31
23	220uF	Electrolytic	16	—	4005-059-03
24	100uF	Electrolytic	25	—	4005-002-49
25	220uF	Electrolytic	25	—	4005-059-02
26	820pF	Polystyrene	100	10	4004-022-03
27	.01uF	Ceramic	25	—	4008-039-10

RESISTORS

Circuit No.	Ohm	Description	W.	Tol. ±%	Part Number
30	100K	Carbon	½	10	4022-013-02
31	10K	"	½	10	4022-004-01
32	82K	"	½	10	4022-037-01
33					
34	82K	"			
35	10K	"	½	.0	4022-004-01
36	680	"	½	10	4022-028-02
37	82K	"	½	10	4022-037-01
38	56K	"	½	10	4022-003-03
39	8K2	"	½	10	4022-027-02
40					
41	560	"	½	10	4022-010-01
42	470	"	½	10	4022-016-01
43	1K5	"	½	10	4022-007-01
44	100K				
45		Carbon Potentiometer 5K "J") curve with DPST On/Off switch)			4032-017-12
46	4K7	Carbon	½	10	4022-005-01
47	33K	"	½	10	4022-059-03
48	22	"	½	10	4022-033-01
49	10K	"	½	10	4022-004-01
50					
51	4K7	"	½	10	4022-005-01
53	1K2	"	½	10	4022-040-01
53	220	"	½	10	4022-017-01
54	68	"	½	10	4022-024-01

MISCELLANEOUS

Circuit No.	Description	Part Number
61	Aerial	4074-073-01
62	Oscillator Coil	4043-019-01
63	I.F.T. 1	4044-031-01
64	I.F.T. 2	4044-032-03
65	I.F.T. 3	4044-009-06
66	Power Transformer	4041-052-01
67	Audio Transformer	4042-073-01
76	Power Lead	4078-069-03
77	On/Off Switch — part of Circuit No. 45	
78	Speaker (Plessey 5DO/274/15)	4056-006-22

SEMI-CONDUCTORS

68	Converter	BF 194
69	I.F. Amp.	BF 195
70	I.F. Amp.	BF 195
71	Detector Diode	OA 90
72—73	Rectifier Diodes	BA 100
74	Audio Pre-amp.	BC 148
75	Audio Output	OC 9264

MECHANICAL

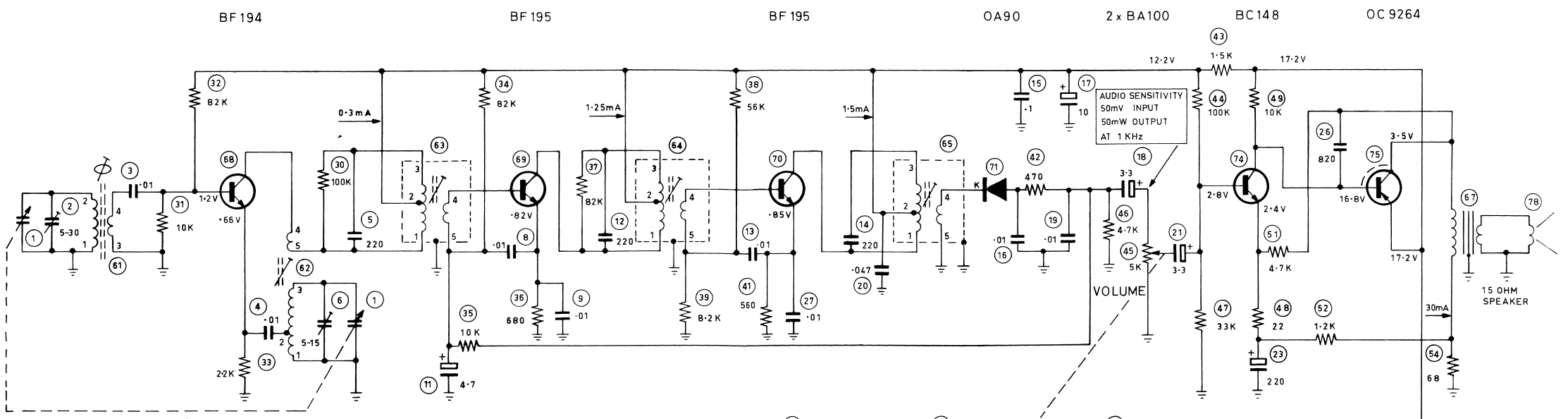
Tuning Knob	7124-073-01
Bush (Tuning Knob Mount)	7031-043-01
Grub Screws (2) Bush Fastening	7198-802-04
Washer (1) Tuning Knob Clamping	7261-008-03
Screws (3) Tuning Knob to Bush	7198-125-07
Insert (Centre of Tuning Knob)	7119-002-05
Support Pillar (2) Rod Aerial	7166-001-01

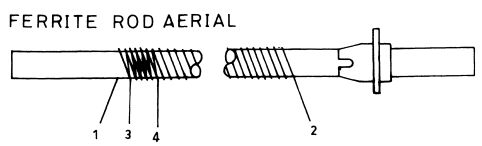
STYLING

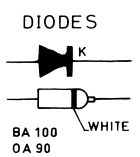
		ME 025	MF 027
Escutcheon Assy.		7084-232-21	7084-232-31
	White	Mad Mustard	Woodgrain
Cabinet Body	7039-005-33	7039-005-37	7039-005-39
Knob Assy.	7124-531-01	7124-531-01	7124-531-01
Base Slide	7221-001-13	7221-001-18	7221-001-19

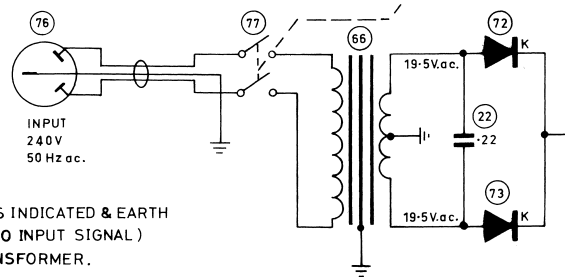
If escutcheon assembly 7084-232-21 is not available, 7084-232-31 escutcheon is used with the addition of bracket and two speednuts to hold the printed circuit board.

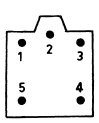
Bracket	7415-084-01
Speednuts (2)	7152-752-01

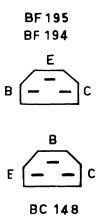


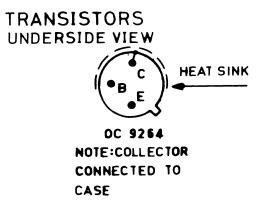


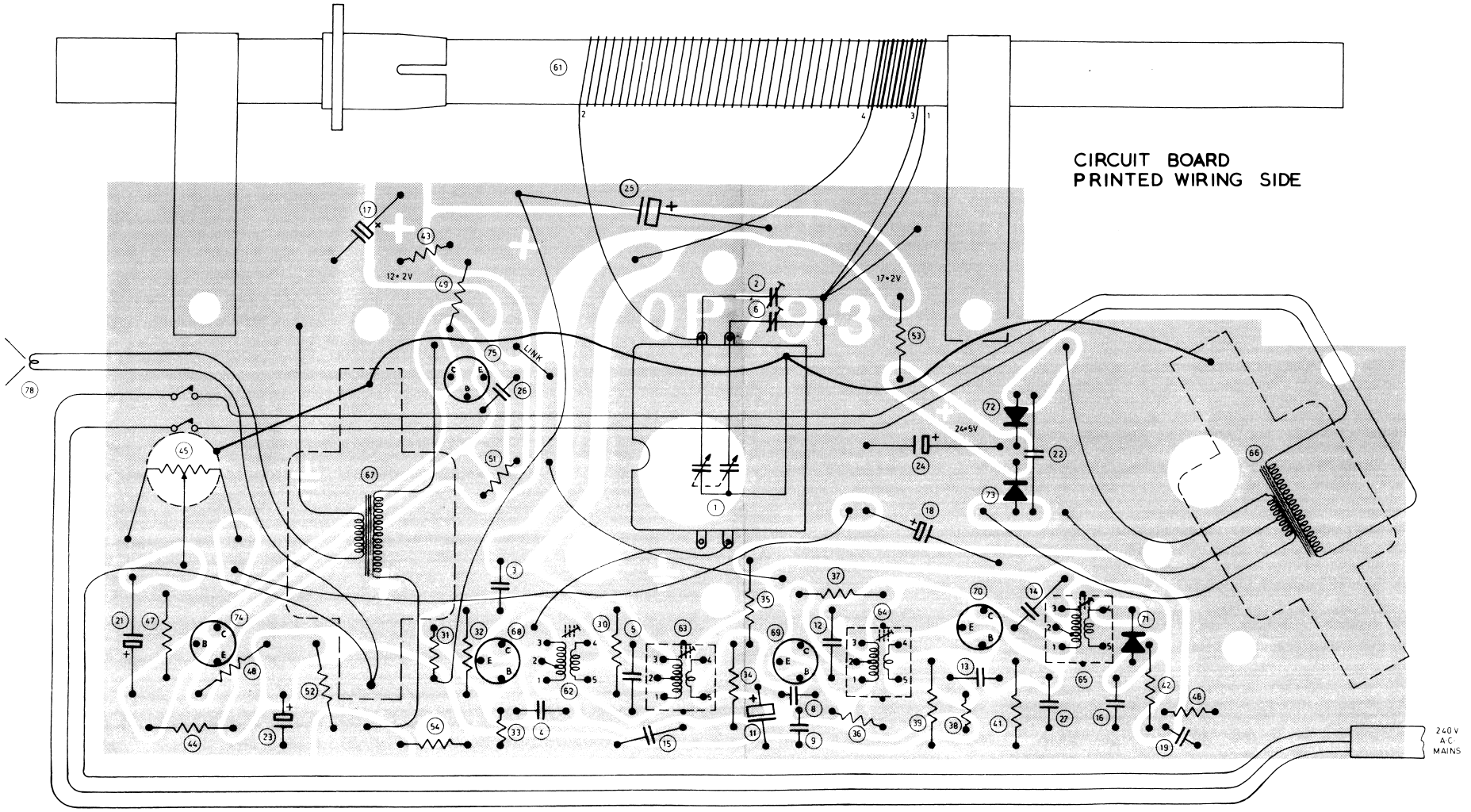










ALL VOLTAGES MEASURED BETWEEN POINTS INDICATED & EARTH WITH A D.C. 20,000 Ω/VOLT VOLTMETER (NO INPUT SIGNAL) 240V 50Hz A.C. INPUT TO POWER TRANSFORMER.

NUMBERS ASSIGNED TO TERMINALS OF COILS & TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT BE FOUND ON THE UNIT.