



ASTOR ELECTRONICS PTY. LTD.

DIVISION OF ELECTRONIC INDUSTRIES LTD., BOX 183, P.O. SOUTH MELBOURNE

Reg. Office: Astor House, 161-173 Sturt St., South Melbourne.

P2A - 1

File: Receivers Portable

Date: 14/8/1964

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ASTOR MODEL "P2A"

9 TRANSISTOR FOUR BAND PORTABLE RECEIVER



TUNING RANGE:	Broadcast Band	-	525 - 1605 Kilocycles
	SW1 Band	-	1.6 - 4.4 Megacycles
	SW2 Band	-	4.4 - 11.4 Megacycles
	SW3 Band	-	11.4 - 18.2 Megacycles

Intermediate
Frequency: 455 Kilocycles

Power Output: 500 Milliwatts

Current
Consumption: 11 mA., no signal

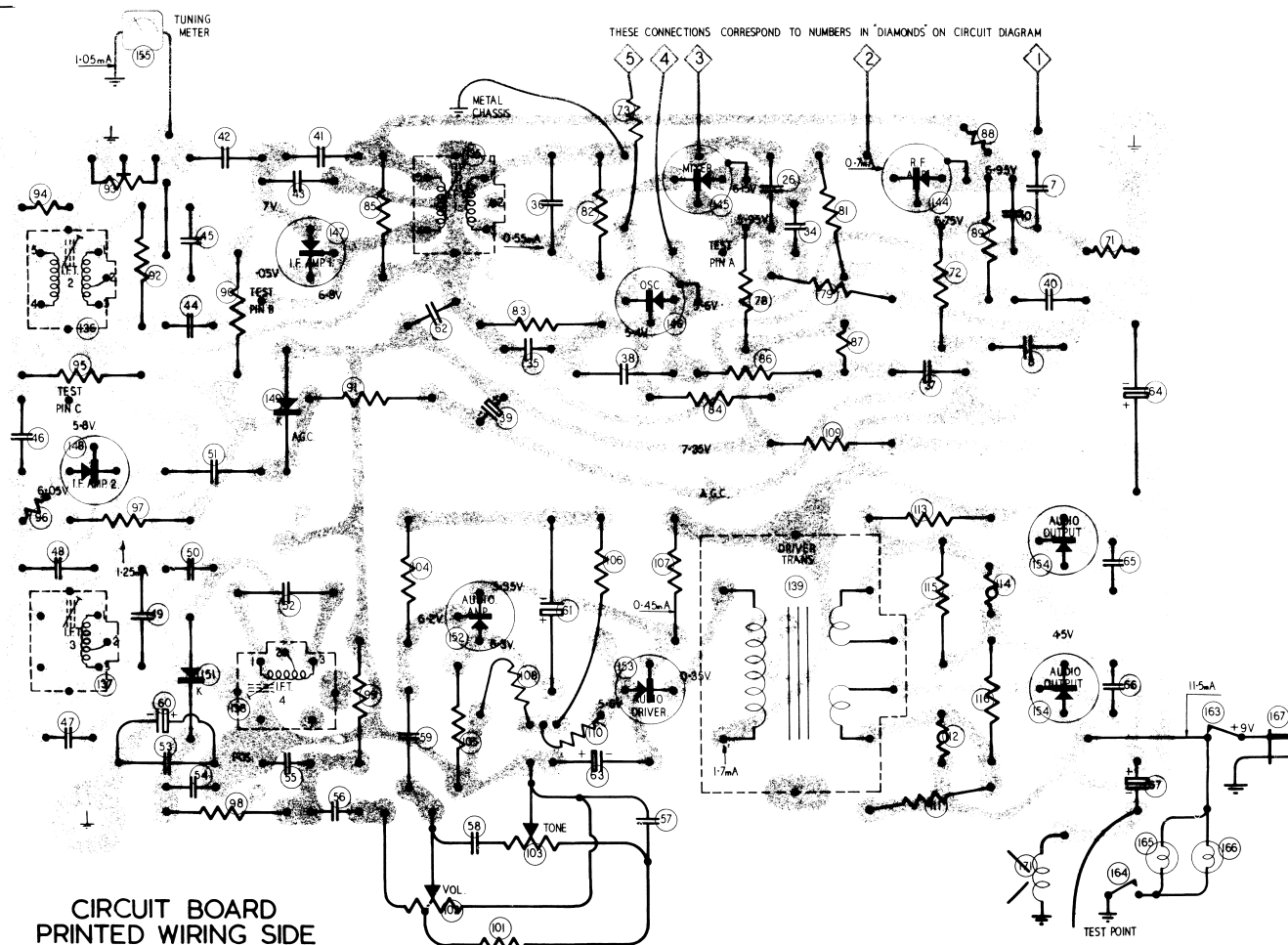
Power Source: 9 volts DC.

ACCESS TO INTERIOR

Loosen the external aerial and earth screws at rear of cabinet.
Pull lower edge of cabinet back outward and downward from cabinet body.

SERIAL NUMBER

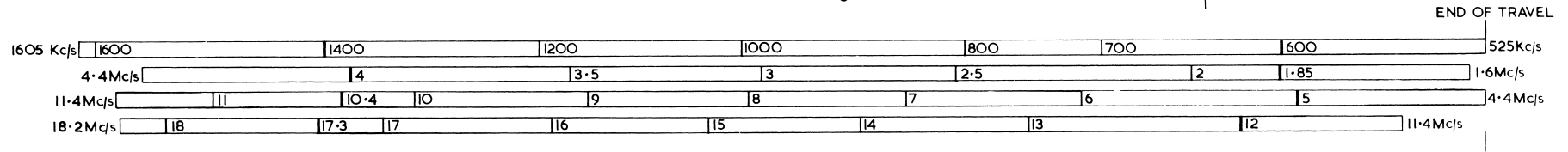
Remove cabinet back and remove batteries. Number is stamped into metal chassis adjacent to telescopic whip aerial.



PB1346 A

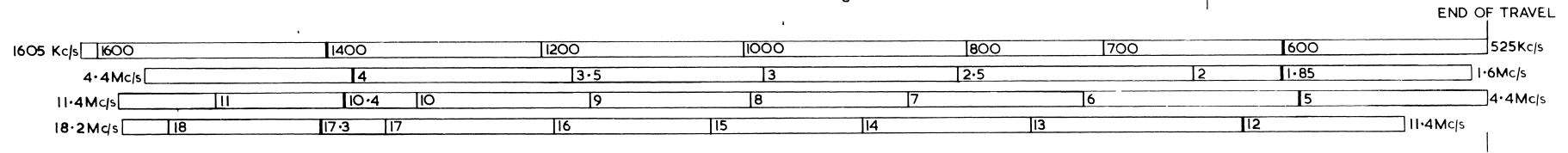
Circuit No.	Value	Capacitors Description	Tol	Rating V, D, C, W.	Part Number	Circuit No.	Value	Capacitors Description	Tol	Rating V, D, C, W.	Part Number
1	5-30pF	Trimmer			4000-023-02	34	.01uF	Disc Ceramic	25		4008-039-06
2	5-30pF	Trimmer			4000-023-02	35	.01uF	Disc Ceramic	25		4008-039-06
3	150pF	Polystyrene	2½%	125	4004-017-02	36	220pF	Polystyrene	10%	125	4004-005-05
4	5-30pF	Trimmer			4000-023-01	37	.047uF	Disc Ceramic	25		4008-057-03
5		Tuning Gang - 3 section			4000-030-01	38	120uF	Polystyrene	10%	125	4004-010-01
6	1.5-15pF	Trimmer -			4000-021-02	39	6.4uF	Electrolytic	12		4005-029-02
7	.047uF	Disc Ceramic		25	4008-057-03	40	.1uF	Disc Ceramic	25		4008-004-04
8	.1uF	Disc Ceramic		25	4008-004-04	41	.047uF	Disc Ceramic	25		4008-057-03
9	5-30pF	Trimmer			4000-023-01	42	.01uF	Disc Ceramic	25		4008-039-06
10	.047uF	Disc Ceramic		25	4008-057-03	43	.1uF	Disc Ceramic	25		4008-004-04
11	5-30pF	Trimmer			4000-023-01	44	3.3pF	Disc Ceramic NPO	.25pF	500	4008-014-01
12	150pF	Polystyrene	2½%	125	4004-017-02	45	220pF	Polystyrene	10%	125	4004-005-05
13	5-30pF	Trimmer			4000-023-01	46	.047uF	Disc Ceramic	25		4008-057-03
14	18pF	Tubular Ceramic	20%	500	4008-051-09	47	3.3pF	Disc Ceramic NPO	.25pF	500	4008-014-01
15	1.5-15pF	Trimmer			4000-021-02	48	.047uF	Disc Ceramic	25		4008-057-03
16	68pF	Tubular Ceramic	10%	500	4008-027-10	49	470pF	Polystyrene	10%	125	4004-002-05
17	18pF	Tubular Ceramic	20%	500	4008-051-09	50	33pF	Disc Ceramic N750	5%	500	4008-007-08
18	220pF	Polystyrene	2½%	125	4004-005-04	51	150pF	Polystyrene	10%	125	4004-017-01
19	820pF	Polystyrene	5%	125	4004-022-02	52	470pF	Polystyrene	10%	125	4004-002-05
20						53	.27uF	Disc Ceramic	25		4008-055-01
21	120pF	Polystyrene	2½%	125	4004-010-01	54	.001uF	Tubular Ceramic	500		4008-040-07
22						55	.001uF	Tubular Ceramic	500		4008-040-07
23	.01uF	Disc Ceramic		25	4008-039-06	56	.01uF	Disc Ceramic	20%	25	4008-039-07
24	.0047uF	Polystyrene	2½%	200	4004-019-02	57	.068uF	Polyester	10%	160	4009-013-01
25	.01uF	Disc Ceramic		25	4008-039-06	58	.01uF	Polyester	10%	160	4009-014-01
26	.01uF	Disc Ceramic		25	4008-039-06	59	.22uF	Disc Ceramic	25		4008-053-01
27	.0015uF	Polystyrene	2½%	200	4004-004-02	60	.22uF	Disc Ceramic	25		4008-053-01
28	220pF	Polystyrene	2½%	125	4004-005-04	61	10uF	Electrolytic	6		4005-007-09
29	2-8pF	Trimmer - wire wound			4000-033-01	62	100uF	Electrolytic	12		4005-002-25
30						63	200uF	Electrolytic	6		4005-006-08
31	3-30pF	Trimmer - wire wound			4000-025-01	64	100uF	Electrolytic	12		4005-002-23
32	3-30pF	Trimmer - wire wound			4000-025-01	65	.01uF	Disc Ceramic	25		4008-039-06
33	3-30pF	Trimmer - wire wound			4000-025-01	66	.01uF	Disc Ceramic	25		4008-039-06
						67	200uF	Electrolytic	6		4005-006-09

PIERCE $\frac{1}{8}$ " DIA. HOLES AT POINTS INDICATED THUS: —|—



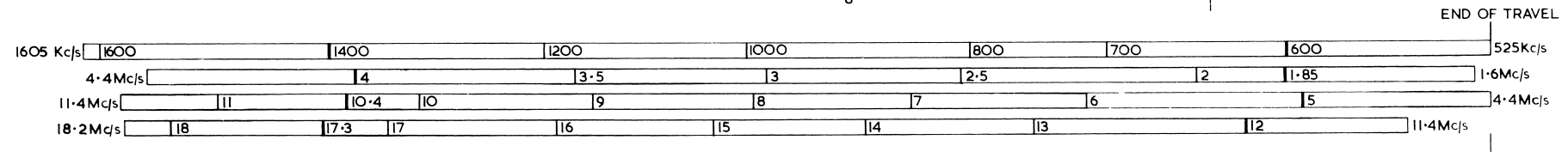
PBI359

PIERCE $\frac{1}{8}$ " DIA. HOLES AT POINTS INDICATED THUS: —|—



PBI359

PIERCE $\frac{1}{8}$ " DIA. HOLES AT POINTS INDICATED THUS: —|—



PBI359

ALIGNMENT EQUIPMENT

Signal Generator	-	Modulated 400 cps.
Output Meter	-	15 ohm impedance
Generator Series Capacitor	-	.1uF Part No. 4006-005-03
Generator Series Resistor	-	390 ohms Part No. 4022-058-04

Alignment Tools

- (a) Flat Metal Blade each end - Part No. 4121-001-01 for I. F. T. and Osc. coil iron core adjustment.
- (b) Chisel Point Type - Part No. 4121-005-01 for trimmer capacitor adjustment.
- (c) Non Metallic Tip Type - Part No. 4121-017-01 for slotted type iron cores.

ALIGNMENT CONDITIONS

Volume Control :	Maximum, clockwise
Tone Control :	Maximum treble, clockwise
Output Level :	50 Milliwatts
Output Meter	
Connection :	across speaker. Refer circuit board diagram, "Test Point"
Power Supply :	9 Volt DC.

Remove the chassis from cabinet as detailed in "CHASSIS REMOVAL" paragraph

INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Turn tuning control to high frequency end of travel. Insert .1uF capacitor in series with generator "hot" lead.

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	To pin "C" on circuit board (base of 2nd IF amplifier)	455 Kc/s	Adjust iron core of 4th IF transformer for max. output
2.	As oper. 1.	455 Kc/s	Adjust iron core of 3rd IF transformer for max. output.
3.	Repeat operations 1 and 2	455 Kc/s	
4.	To pin "B" on circuit board (base of 1st IF amplifier)	455 Kc/s	Adjust iron core of 2nd IF transformer for max. output.
5.	To pin "A" on circuit board (base of mixer)	455 Kc/s	Adjust iron core of 1st IF transformer for max. output.

SETTING OF DIAL POINTER

Locate and attach dial reading card to dial background

Turn tuning control to low frequency end of travel

Move pointer along dial cord to align with end of travel mark on dial reading.

BROADCAST ALIGNMENT

- A. To inject a signal into the receiver, connect 2 ft. of aerial wire to the "hot" terminal of signal generator. Fashion wire into a vertical position.
- B. Place receiver so that ferrite aerial is uppermost and horizontal. Tuning end of receiver is to be toward but not less than one foot from generator aerial wire.

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	Refer Para. A & B.	525 Kc/s	Set tuning to low freq. end of travel (gang plates fully closed) and pointer over end of travel mark. Adjust osc. coil iron core for maximum output.
2.	As oper. 1.	1605 Kc/s	Set tuning control to align with high freq. end of travel mark. Adjust B/C osc. coil trimmer capacitor for max. output.
3.	Repeat operations 1 & 2		
4.	As oper. 1	600 Kc/s	Tune receiver to generator. Adjust B/C coil iron core then movable winding of B/C aerial coil for max. output.
5.	As oper. 1	1400 Kc/s	Tune receiver to generator. Adjust B/C RF then the aerial coil trimmer capacitor for max. output.
6.	Repeat operations 4 & 5		

NOTE: To avoid alignment to image frequency check iron core positions.

OSC. core - "chassis" end of former

RF. core - "chassis" end of former

SHORT WAVE ALIGNMENT

SW1 BAND 1.6 to 4.4 Mc/s

1.	Connect 390 ohm non-inductive resistor in series with generator "hot" lead, to "EXT" aerial terminal	1.85 Mc/s	Set tuning so that dial pointer aligns with 1.85 Mc/s dial mark. Adjust SW1 osc. and RF. coil iron cores and movable winding of aerial coil for max. output. NOTE: Winding is to peak as far as possible away from B/C winding.
2.	As oper. 1	4.0 Mc/s	Set tuning so that dial pointer aligns with 4 Mc. dial mark. Adjust SW1 osc. RF and aerial coil trimmer capacitors for max. output.
3.	Repeat operations 1 & 2		NOTE: Rock tuning gang through signal whilst adjusting RF. and aerial trimmer capacitors.

NOTE: To avoid alignment to image frequency check iron core positions.

OSC. core - "chassis" end of former

RF. core - "hot" end of former

SHORT WAVE ALIGNMENT

SW 2 BAND 4.4 to 11.4 Mc/s

1.	Connect 390 ohm non-inductive resistor in series with generator "hot" lead to "EXT" aerial terminal	5 Mc/s	Set tuning so that dial pointer aligns with 5 Mc. dial mark. Adjust SW2 osc. RF. and aerial coil iron cores for max. output.
2.	As oper. 1.	10.4 Mc/s	Set tuning so that dial pointer aligns with 10.4 Mc. dial mark. Adjust SW2 osc., RF. and aerial coil trimmer capacitors for max. output.
3.	Repeat operations 1 & 2		NOTE: Rock tuning gang through signal whilst adjusting RF and aerial trimmer capacitors.

NOTE: To avoid alignment to image frequency check iron core positions.

OS C. - RF. - AER. "chassis" end of former

SHORT WAVE ALIGNMENT

SW3 BAND 11.4 to 18.2 Mc/s

1.	Connect 390 ohm non-inductive resistor in series with generator "hot" lead to "EXT" aerial terminal	12.0 Mc/s	Set tuning so that dial pointer aligns with 12 Mc. dial mark. Adjust SW 3 osc., RF and aerial coil iron cores for max. output.
2.	As oper. 1	17.3 Mc/s	Set tuning so that dial pointer aligns with 17.3 Mc. dial mark. Adjust SW3 osc., RF and aerial coil trimmer capacitors for maximum output.
3.	Repeat operations 1 & 2		NOTE: Rock tuning gang through signal whilst adjusting RF. and aerial trimmer capacitors.

NOTE: To avoid alignment to image frequency check iron core positions.

OSC. - "chassis" end of former

RF. - "hot" end of former

AER. - "hot" end of former

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	Refer Para. A & B.	525 Kc/s	Set tuning to low freq. end of travel (gang plates fully closed) and pointer over end of travel mark. Adjust osc. coil iron core for maximum output.
2.	As oper. 1.	1605 Kc/s	Set tuning control to align with high freq. end of travel mark. Adjust B/C osc. coil trimmer capacitor for max. output.
3.	Repeat operations 1 & 2		
4.	As oper. 1	600 Kc/s	Tune receiver to generator. Adjust B/C coil iron core then movable winding of B/C aerial coil for max. output.
5.	As oper. 1	1400 Kc/s	Tune receiver to generator. Adjust B/C RF then the aerial coil trimmer capacitor for max. output.
6.	Repeat operations 4 & 5		
NOTE: To avoid alignment to image frequency check iron core positions.			
OSC. core - "chassis" end of former			
RF. core - "chassis" end of former			

SHORT WAVE ALIGNMENT

SW1 BAND 1.6 to 4.4 Mc/s

1.	Connect 390 ohm non-inductive resistor in series with generator "hot" lead to "EXT" aerial terminal	1.85 Mc/s	Set tuning so that dial pointer aligns with 1.85 Mc/s dial mark. Adjust SW1 osc. and RF. coil iron cores and movable winding of aerial coil for max. output. NOTE: Winding is to peak as far as possible away from B/C winding.
2.	As oper. 1	4.0 Mc/s	Set tuning so that dial pointer aligns with 4 Mc. dial mark. Adjust SW1 osc. RF and aerial coil trimmer capacitors for max. output.
3.	Repeat operations 1 & 2		NOTE: Rock tuning gang through signal whilst adjusting RF. and aerial trimmer capacitors.

NOTE: To avoid alignment to image frequency check iron core positions.

OSC. core - "chassis" end of former

RF. core - "hot" end of former

SHORT WAVE ALIGNMENT

SW 2 BAND 4.4 to 11.4 Mc/s

1.	Connect 390 ohm non-inductive resistor in series with generator "hot" lead to "EXT" aerial terminal	5 Mc/s	Set tuning so that dial pointer aligns with 5 Mc. dial mark. Adjust SW2 osc. RF. and aerial coil iron cores for max. output.
2.	As oper. 1.	10.4 Mc/s	Set tuning so that dial pointer aligns with 10.4 Mc. dial mark. Adjust SW2 osc. , RF. and aerial coil trimmer capacitors for max. output.
3.	Repeat operations 1 & 2		NOTE: Rock tuning gang through signal whilst adjusting RF and aerial trimmer capacitors.

NOTE: To avoid alignment to image frequency check iron core positions.

OS C. - RF. - AER. "chassis" end of former

SHORT WAVE ALIGNMENT

SW3 BAND 11.4 to 18.2 Mc/s

1.	Connect 390 ohm non-inductive resistor in series with generator "hot" lead to "EXT" aerial terminal	12.0 Mc/s	Set tuning so that dial pointer aligns with 12 Mc. dial mark. Adjust SW 3 osc. , RF and aerial coil iron cores for max. output.
2.	As oper. 1	17.3 Mc/s	Set tuning so that dial pointer aligns with 17.3 Mc. dial mark. Adjust SW3 osc. , RF and aerial coil trimmer capacitors for maximum output.
3.	Repeat operations 1 & 2		NOTE: Rock tuning gang through signal whilst adjusting RF. and aerial trimmer capacitors.

NOTE: To avoid alignment to image frequency check iron core positions.

OSC. - "chassis" end of former

RF. - "hot" end of former

AER. - "hot" end of former

“P2A”

BATTERY VOLTAGE INDICATOR METER CALIBRATION

Connect receiver to 9 volt supply source then adjust potentiometer, circuit No. 155 to give full scale deflection, (no input signal).

REMOVAL OF CHASSIS

Remove control knobs.

Unscrew external aerial and earth screws and remove cabinet back.

Remove batteries and unsolder lead to whip aerial.

Unclip ext. aerial and earth speednuts from brackets.

Unclip dial lamps from brackets.

Remove two screws, (1) above tuning meter

(1) above tuning gang.

Remove two screws, large head from lower flange of chassis.

Remove the screw adjacent to tone and volume controls.

Ease chassis out of cabinet then disconnect leads from speaker.

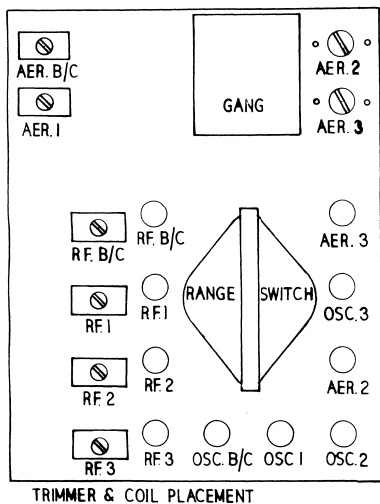
Refitting is reverse procedure to removal.

CLEANING OF CABINET

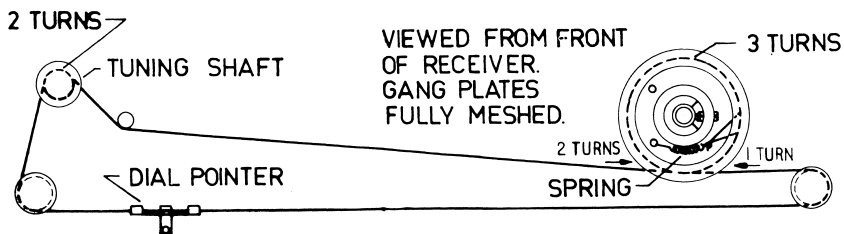
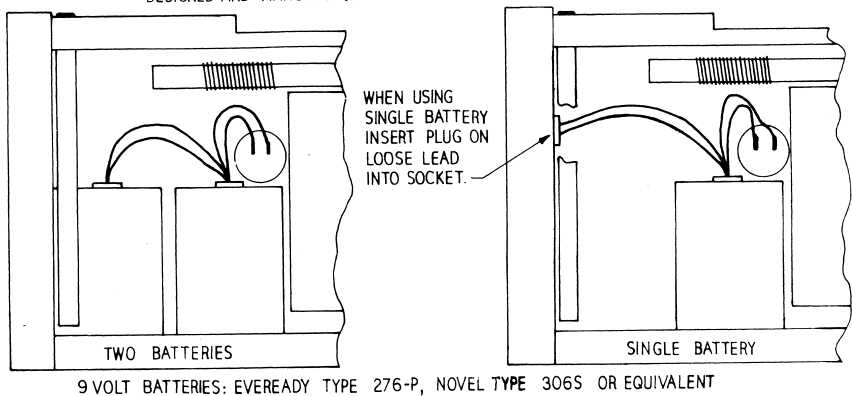
Do not polish cabinet, plastic or metal sections with an abrasive material, motor car polish, boot polish or similar household cleaning fluids, as permanent damage may result to the finish of the components.

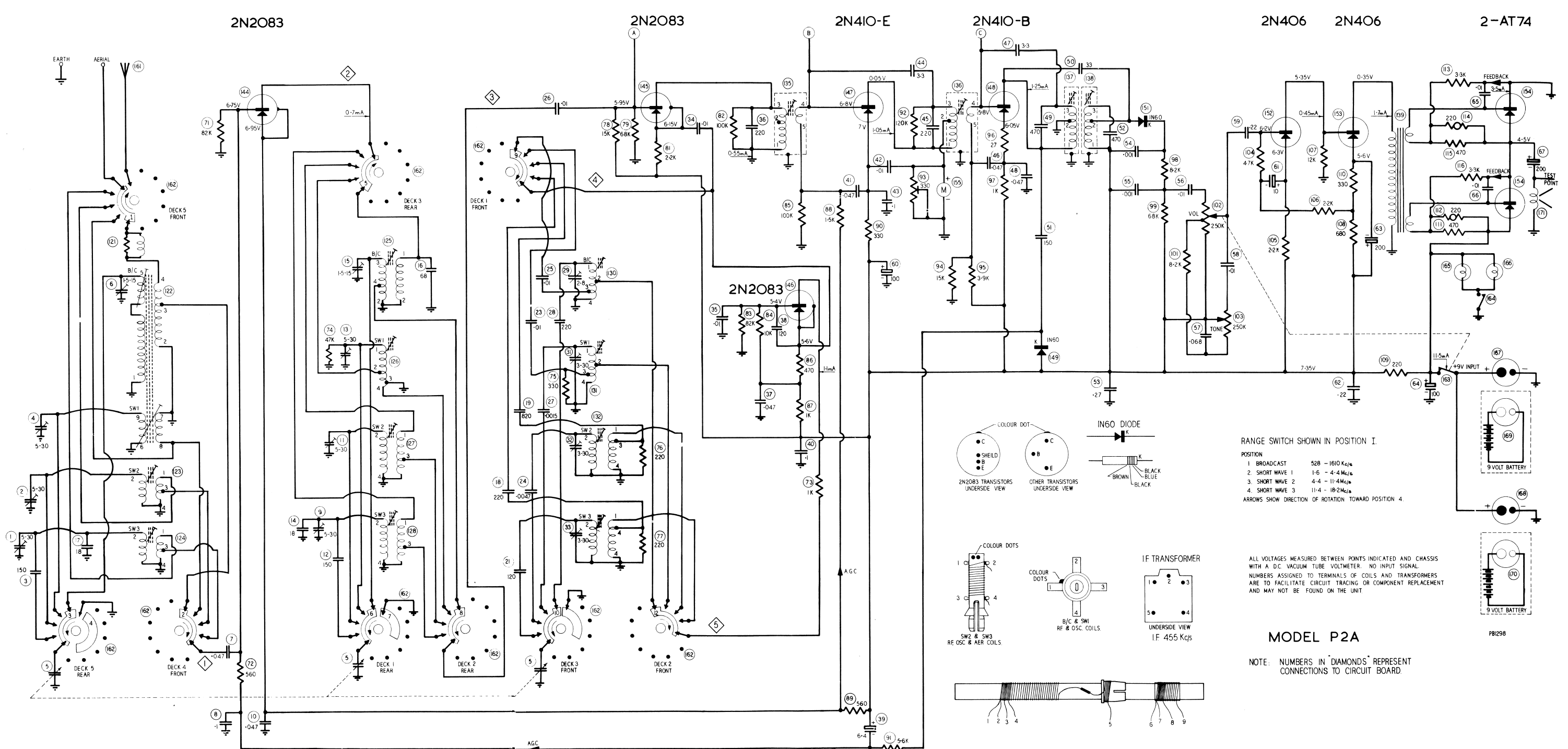
To restore the finish of the cabinet, etc. wipe with a soft cloth, dampened with water and lightly polish with a neutral wax.

MODEL: P2A



DESIGNED AND MANUFACTURED BY RADIO CORPORATION PTY. LTD. STH. MELB. AUSTRALIA.





Circuit No.	Value	Resistors Description	Tol ±	Rating Watts	Part Number
70					
71	82K	Carbon	10	$\frac{1}{2}$	4022-037-01
72	560	Carbon	10	$\frac{1}{2}$	4022-010-01
73	1K	Carbon	10	$\frac{1}{2}$	4022-008-02
74	47K	Carbon	10	$\frac{1}{2}$	4022-057-03
75	330	Carbon	10	$\frac{1}{2}$	4022-011-01
76	220	Carbon	10	$\frac{1}{2}$	4022-017-01
77	220	Carbon	10	$\frac{1}{2}$	4022-017-01
78	15K	Carbon	10	$\frac{1}{2}$	4022-001-02
79	68K	Carbon	10	$\frac{1}{2}$	4022-048-01
80					
81	2.2K	Carbon	10	$\frac{1}{2}$	4022-021-02
82	100K	Carbon	10	$\frac{1}{2}$	4022-013-02
83	82K	Carbon	10	$\frac{1}{2}$	4022-037-01
84	10K	Carbon	10	$\frac{1}{2}$	4022-004-01
85	100K	Carbon	10	$\frac{1}{2}$	4022-013-02
86	470	Carbon	10	$\frac{1}{2}$	4022-016-01
87	1K	Carbon	10	$\frac{1}{2}$	4022-008-01
88	1.5K	Carbon	10	$\frac{1}{2}$	4022-007-01
89	560	Carbon	10	$\frac{1}{2}$	4022-010-01
90	330	Carbon	10	$\frac{1}{2}$	4022-011-01
91	5.6K	Carbon	10	$\frac{1}{2}$	4022-022-02

92	120K	Carbon	10	$\frac{1}{2}$	4022-031-01
93	330	Potentiometer, meter adj.			4029-008-01
94	15K	Carbon	10	$\frac{1}{2}$	4022-001-02
95	3.9K	Carbon	10	$\frac{1}{2}$	4022-020-01
96	27	Carbon	10	$\frac{1}{2}$	4022-068-01
97	1K	Carbon	10	$\frac{1}{2}$	4022-008-01
98	8.2K	Carbon	10	$\frac{1}{2}$	4022-027-02
99	68K	Carbon	10	$\frac{1}{2}$	4022-048-01
100					
101	8.2K	Carbon	10	$\frac{1}{2}$	4022-027-02
102	250K	Volume Control, tapped at 100K with SP. ST. switch attached			4032-034-02
103	250K	Tone Control			4032-013-09
104	4.7K	Carbon	10	$\frac{1}{2}$	4022-005-01
105	2.2K	Carbon	10	$\frac{1}{2}$	4022-021-02
106	2.2K	Carbon	10	$\frac{1}{2}$	4022-021-02
107	12K	Carbon	10	$\frac{1}{2}$	4022-029-01
108	680	Carbon	10	$\frac{1}{2}$	4022-028-02
109	220	Carbon	10	$\frac{1}{2}$	4022-017-01
110	330	Carbon	10	$\frac{1}{2}$	4022-011-01
111	470	Carbon	10	$\frac{1}{2}$	4022-016-01
112	220	Thermistor	20	$1-\frac{1}{4}$	4021-020-01
113	3.3K	Carbon	10	$\frac{1}{2}$	4022-006-01
114	220	Thermistor	20	$1-\frac{1}{4}$	4021-020-01

Circuit No.	Miscellaneous	Part Number
115	470	Carbon
116	3.3K	Carbon
117		
118		
119		
120		
121	Aerial Loading Coil	4036-051-01
122	Ferrite Rod Aerial	4074-046-01
123	Aerial Coil - 4.4 to 11.4 Mc/s	4043-037-01
124	Aerial Coil - 11.4 to 18.2 Mc/s	4043-038-01
125	R. F. Transformer - Broadcast	4043-045-01
126	R. F. Transformer - 1.6 to 4.4 Mc/s	4043-039-01
127	R. F. Transformer - 4.4 to 11.4 Mc/s	4043-040-01
128	R. F. Transformer - 11.4 to 18.2 Mc/s	4043-041-01
129		
130	Oscillator Coil - Broadcast	4043-048-01
131	Oscillator Coil - 1.6 to 4.4. Mc/s	4043-042-01
132	Oscillator Coil - 4.4 to 11.4 Mc/s	4043-043-01
133	Oscillator Coil - 11.4 to 18.2 Mc/s	4043-044-01
134		
135	I. F. Transformer - 455 Kc/s red/green	4044-009-04

136	I. F. Transformer - 455 Kc/s red/white	4044-009-08
137	I. F. Transformer - 455 Kc/s orange/black	4044-022-01
138	I. F. Transformer - 455 Kc/s orange/orange	4044-022-02
139	Driver Transformer	4042-036-01
140		
141		
142		
143		
144	Transistor - R. F. Amplifier, type 2N2083	4128-037-01
145	Transistor - Mixer, type 2N2083	4128-037-01
146	Transistor - Oscillator, type 2N2083	4128-037-01
147	Transistor - I. F. amplifier, type 2N410-E	4128-010-03
148	Transistor - I. F. amplifier, type 2N410-B	4128-010-04
149	Diode - AGC, type 1N60	4127-032-01
150		
151	Diode - Detector, type 1N60	4127-032-01
152	Transistor - Audio Amplifier, type 2N406	4128-009-02
153	Transistor - Audio Driver, type 2N406	4128-009-02
154	Transistor - Audio Output, type 2-AT74 (matched pair)	4128-038-01
155	Tuning and Battery Indicating Meter - 400uA	4085-183-01
156		
157		
158		
159		

160		
161	Telescopic Aerial	4074-054-01
162	Switch - 5D. 4P	4059-090-01
163	Switch - ON/OFF, part of circuit No. 102	
164	Switch - dial lamp, press to operate - see Mechanical Section	
165	Dial lamp - 12-16V, 1.2W, BA7S base, 7 mm. bulb	4068-003-06
166	Dial lamp - 12-16V, 1.2W, BA7S base, 7 mm. bulb	4068-003-06
167	Plug - 2 pin, battery	7171-010-01
168	Plug - 2 pin, battery	7171-010-01
169	Battery - 9 volt, Eveready type 276P	4062-002-01
170	Battery - 9 volt, Eveready type 276P	4062-002-01
171	Speaker - 5" x 4" permag type 554C00/90/15	4056-007-04

Part Number	Mechanical
7111-007-01	Heat Sink (2) output transistors
7120-026-01	Insulator (21) transistor and diode leads
7054-038-51	Rod Aerial Mount Clamp (2)
7198-176-34	Screw (4) 7/16" x 1/8" Whit. rd. hd. mount clamp
7262-008-02	Washer (4) shakeproof, 1/8" int. mount clamp
7148-302-12	Nut (4) 1/8" Whit. mount clamp
7225-175-01	Spring Clip (1) tuning meter mount
7028-171-02	Bracket (1) tuning gang mount
7106-032-01	Grommet (3) tuning gang mount
7031-017-01	Bush (3) tuning gang mount
7196-067-15	Screw (3) tuning gang mount 3/8" x 4 BA. csk. hd.
7103-021-01	Bush and Split Gear Assy. (1) tuning gang drive
7224-218-01	Spindle and Gear Assy. (1) tuning gang drive
7057-013-01	Bush (1) spindle and gear bearing
7261-362-01	Washer (1) spindle and gear assy.
7077-025-01	Tuning Drum (1)
7057-006-01	Collar (1) tuning drum
7198-802-11	Grub Screw (2) 5/32" Whit. x 1/4"
7224-096-02	Tuning Spindle (1)
7031-027-31	Bush tuning spindle
7261-028-01	Horseshoe Washer (1) tuning spindle
7174-015-01	Pulley (2) dial cord
7174-015-02	Pulley (1) dial cord
7055-250-01	Retainer Clip (2) pulleys
7293-062-01	Spacer (1) pulley mount
7234-002-03	Bearing Stud (1) pulley mount
7234-049-01	Bearing Stud (2) pulley mount
7198-176-38	Screw (1) 7/8" x 1/8" Whit. rd. hd. pulley mount
1107-002-03	Dial Cord - 45" required
7173-051-01	Dial Pointer (1)
7150-057-01	Nut (5) 3/8" spindle bushes.
7262-024-02	Washer (4) shakeproof, 3/8" int.
7021-035-02	Spring (1) dial cord
7222-065-01	Socket (2) dial lamp
7120-087-01	Insulating Bush (2) socket
7086-079-01	Eyelet (2) contact, lamp socket
7225-143-01	Contact Blade (1) dial lamp switch
7230-100-01	Insulating Strip (1) dial lamp switch
7138-031-01	Eyelet (1) dial lamp switch contact
7201-576-11	Screw (11) 1/2" x No. 4 Phillips pan. hd. -chassis assy.
7201-577-04	Screw (2) 3/8" x No. 6 Phillips hd. -dial carriage runner
7152-661-01	Speednut (1) dial carriage runner
7231-078-01	Terminal Strip (1) 7 lug, type E5E
7231-203-01	Terminal Strip (1) 5 lug, type 2E2
7231-101-01	Terminal Strip (1) 2 lug, type 1E
7167-058-01	Pin (10) circuit board
7124-046-02	Knob (2) tuning and tone control
7124-048-02	Knob (1) volume
7225-035-01	Spring Insert (3) control knob
7124-004-02	Knob (1) band change
7055-041-01	Clip (1) band change knob
7170-009-02	Indicator Plate (1) band change
7201-526-12	Screw (2) 3/8" x No. 4 Phillips csk. hd. - indicator plate
7032-016-01	Button (1) dial lamp switch
7160-014-01	"OFF" Indicator Plate (1)
7152-272-01	Speednut (1) "OFF" plate fastening
7089-004-03	Foot (4) cabinet base
7265-007-01	Cup Washer (4) cabinet foot
7201-527-11	Screw (4) 1/2" x No. 6 Phillips csk. hd. cab. - foot fastening
7109-030-01	Carry Handle (1)
7105-007-01	Pad (1) carry handle
7209-516-02	Screw (3) 1/4" x No. 5 Phillips hd. - handle pad
7198-918-02	Screw (2) special, handle pivot
7253-047-01	Trim (1) right hand, handle cavity
7253-047-02	Trim (1) left hand, handle cavity

7065-026-02	Lid Assy (1) complete consists of
7292-008-05	Pivot Section (1) top of dial
7065-105-03	Lid (1) top section
7065-106-04	Lid (1) front section
7167-119-01	Pivot Pin (2)
7008-252-01	Trim Strip (1) netcal
7008-200-01	Station Log Chart (1) top lid
7008-199-01	Station Log Chart (1) front lid
7109-029-01	Handle (1) lid
7204-126-05	Screw (2) 1/4" x No. 4 csk. hd., handle fastening.
7070-079-02	Dial Reading (1)
7253-046-02	Trim Piece (1) left hand end of dial reading
7253-046-01	Trim Piece (1) right hand end of dial reading
7201-576-03	Screw (2) 1/2" x No. 4 Phillips hd., trim piece

7049-008-01	Ball Catch (2) lid closure
7179-096-05	Trim Section (1) top of speaker grille
7104-050-02	Speaker Grille
7179-101-03	Trim Section (1) bottom of speaker grille
7008-151-01	Metcal (1) "ASTOR world range transistor 9"
7028-348-02	Bracket (2) ext. aerial and earth screws
7196-917-13	Screw (2) special, gold plate, ext. aerial and earth
7152-752-01	Speednut (2) No. 6 captive, ext. aerial and earth
7027-295-01	Bracket (1) telescopic aerial mount
7027-283-01	Bracket (2) dial lamp, mount
7201-576-11	Screw (21) 3/8" x No. 4 Phillips hd. -brackets etc. to cabinet
7201-577-04	Screw (2) 3/8" x No. 6 Phillips hd. -chassis to cabinet
7198-177-17	Screw (1) 1/4" x 5/32" Whit. rd. hd. -chassis to cabinet
7027-294-01	Bracket (2) baffle mount
1026-001-42	PVC extrusion - ends of speaker grille, 8" required
7028-413-02	Battery Bracket (1) curved
7027-342-02	Battery Bracket (1) "L" shape

Part Number	Styling
7040-014-01	Cabinet (1) TAN, includes back
7040-014-02	Cabinet (1) DARK RED, includes back
7040-014-03	Cabinet (1) GREEN, includes back
7040-014-04	Cabinet (1) GREY, includes back



PBI346 AB

ASTOR**ASTOR ELECTRONICS PTY. LTD.**

DIVISION OF ELECTRONIC INDUSTRIES LTD., BOX 183, P.O. SOUTH MELBOURNE

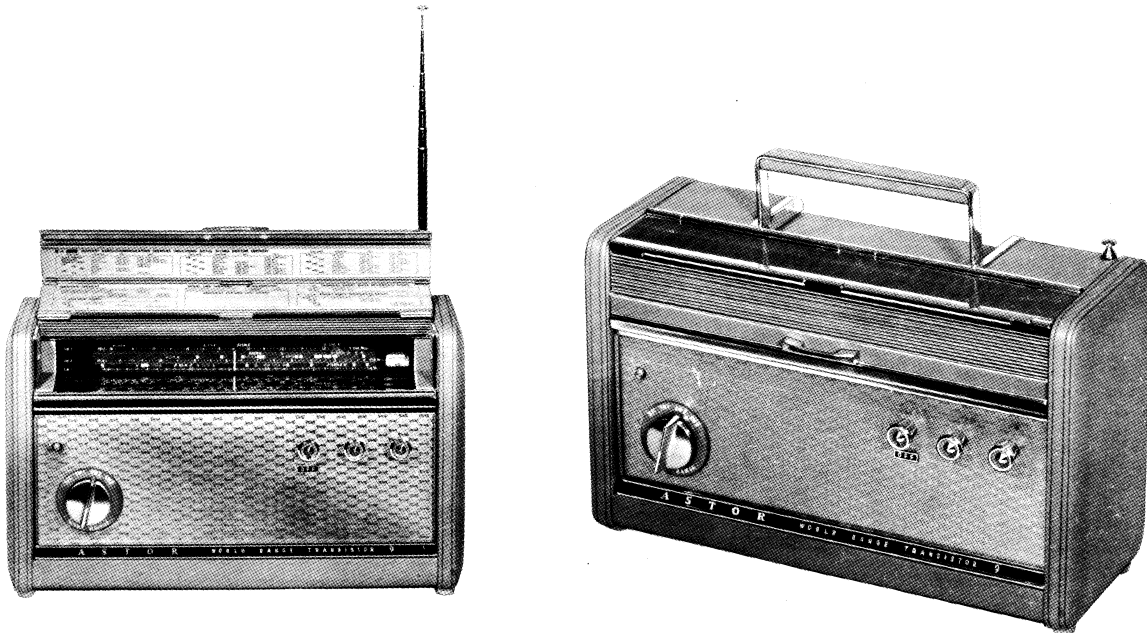
Reg. Office: Astor House, 161-173 Sturt St., South Melbourne.

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File: Receivers Portable

Date: 14/8/1964

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ASTOR MODEL "P2A"**9 TRANSISTOR FOUR BAND PORTABLE RECEIVER**

TUNING RANGE: Broadcast Band - 525 - 1605 Kilocycles
SW1 Band - 1.6 - 4.4 Megacycles
SW2 Band - 4.4 - 11.4 Megacycles
SW3 Band - 11.4 - 18.2 Megacycles

Intermediate
Frequency: 455 Kilocycles

Power Output: 500 Milliwatts

Current
Consumption: 11 mA., no signal

Power Source: 9 volts DC.

ACCESS TO INTERIOR

Loosen the external aerial and earth screws at rear of cabinet.
Pull lower edge of cabinet back outward and downward from cabinet body.

SERIAL NUMBER

Remove cabinet back and remove batteries. Number is stamped into metal chassis adjacent to telescopic whip aerial.