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.

PRODUCTION CHANGES

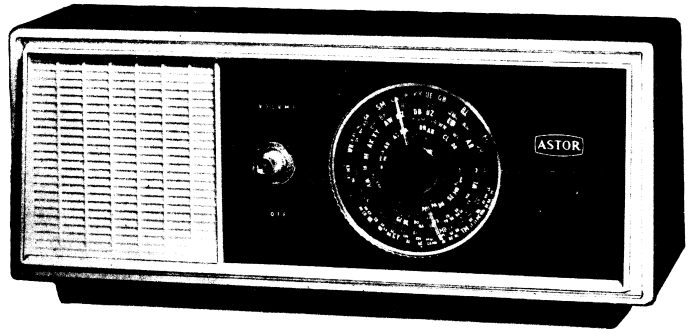
CIRCUIT BOARD: Early production receivers were assembled on to circuit boards type OP-79.

The main difference between type OP-79 and the current production board type OP-79-1 is that the latter has a continuous copper ground circuit around the edge and also has provision for mounting Circuit No.40, a 10 ohm resistor in the emitter circuit of the 2nd I.F. amplifier.

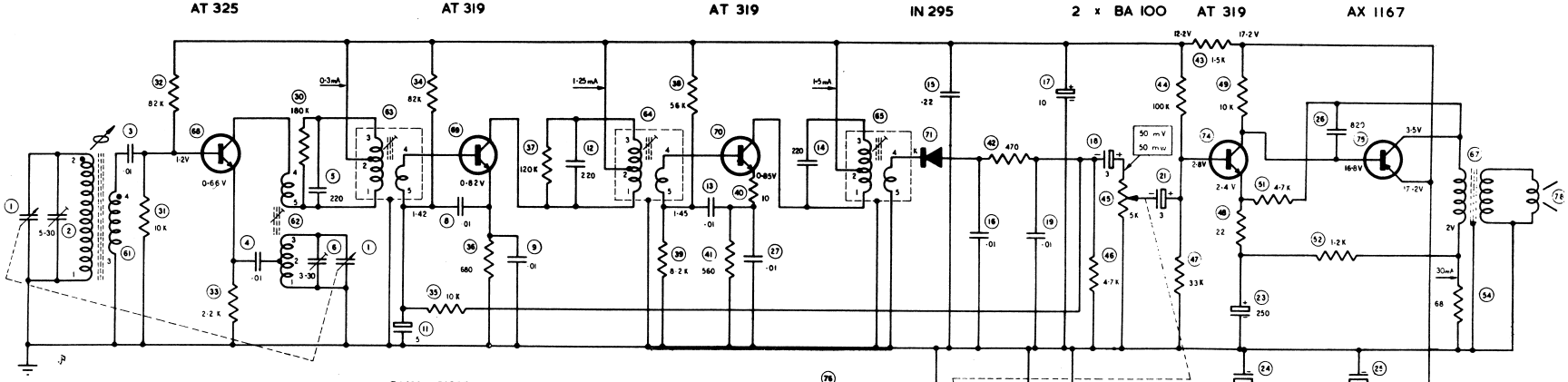
Electrolytic Circuit No.17 has been turned 180° to suit new location of positive island on circuit board.

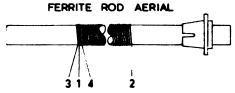
RESISTORS - CIRCUIT NUMBERS 30 AND 37: To allow for variations in transistor gains in early production receivers Circuit No.30 was changed to 100K ohm and Circuit No.37 was changed to 82K ohm.

TRIMMER CAPACITOR: To standardize factory procedure the wire wound trimmer, circuit No.6 has been replaced with an air dielectric type.



Tuning Range:	525-1630KHz approx.
Intermediate Frequency:	455KHz.
Power Output:	100 milliwatts
Current Consumption:	10 watts, approx.
Supply Source:	240 volts. 50Hz.

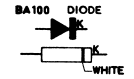


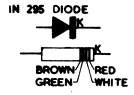


OSCILLATOR COIL & I.F. TRANSFORMER UNDERSIDE VIEW.

AT319 & AT325 TRANSISTORS UNDERSIDE VIEW

AX1167 TRANSISTOR UNDERSIDE VIEW





ALL VOLTAGES MEASURED BETWEEN POINTS INDICATED AND EARTH WITH A D.C. VACUUM TUBE VOLTMETER (NO INPUT SIGNAL) 240 V. 50 Hz A.C. INPUT TO POWER TRANSFORMER

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

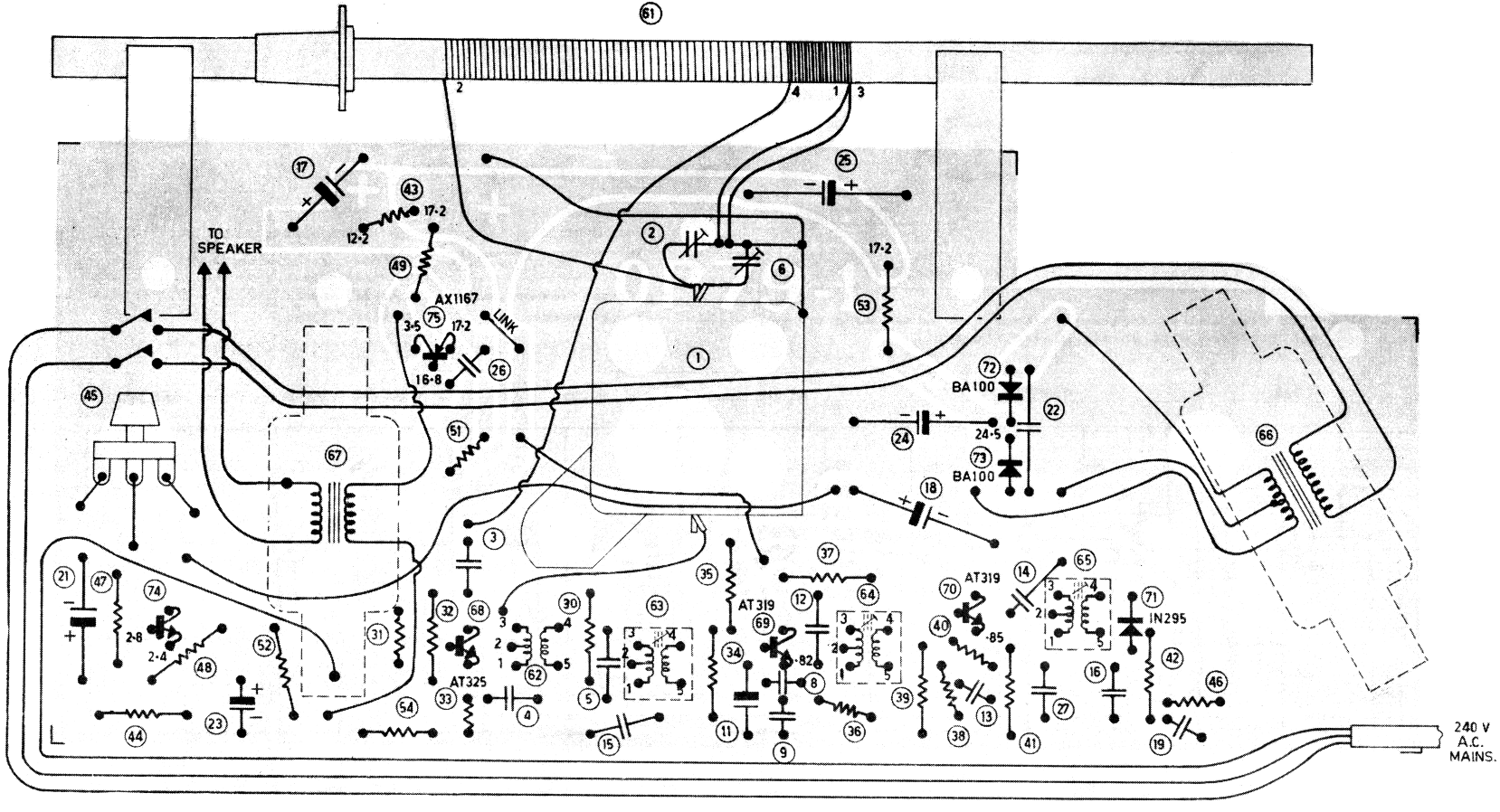
NOTE 1 CIRCUIT NO. 30 WAS 100 K
CIRCUIT NO. 37 WAS 82 K
CIRCUIT NO. 6 WAS 5 - 15 pF
CIRCUIT NO. 40 ADDED AFTER FIRST PRODUCTION RUN

MODEL M6D

I.F. 455 KHz

DRAWN	DATE	CHKD.	APP'D.
A. J. W.	15·6·67		

A85 Astor M6D



A85 Astor M6D

ALIGNMENT EQUIPMENT

Signal Generator - modulated 400 Hz.
Output Meter - 15 ohm impedance
Series Capacitor - for I.F.T. alignment, .1uF Part No.4006-005-03.

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.

ALIGNMENT CONDITIONS

Volume Control - maximum volume (fully clockwise)
Output Level - 50 milliwatts
Output Meter Connection across speaker voice coil
Supply Voltage Source 240 volts - 50 Hz.

DIAL INDICATOR SETTING

1. Prise the push-in type metal insert from the centre of the transparent tuning knob.

2. Loosen the three 1/4" x 3/32" Whit. csk. hd. screws fastening the washer in the centre of the tuning knob.

3. Fully mesh capacitor gang plates, then set centre of indicator line on tuning knob to align with the end of travel spot near "State" station prefix numbers on dial reading.

4. Securely tighten the three 3/32" screws in centre washer then refit push-in metal insert.

INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Insert .1uF capacitor in series with generator "hot" lead.

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	to pin on circuit board (Term.4 of rod aerial)	455 KHz	Adjust iron core of 3rd IF trans. for max. output.
2.	As oper. 1	455 KHz	Adjust iron core of 2nd IF trans. for max. output.
3.	As oper. 1	455 KHz	Adjust iron core of 1st IF trans. for max. output.
4.	Repeat operations 1,2 and 3		

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	600 KHz	Turn tuning gang until centre of dial pointer line on knob aligns with centre of 600 KHz spot on dial reading. Peak iron core of oscillator coil and adjust inductance trimming ring on rod aerial.
2.	As oper. 1	1400 KHz	Set dial pointer line to 1400 KHz spot on dial. Peak oscillator and aerial trimmer capacitors for maximum output.
3.	Repeat oper. 1 and 2 Tuning range after alignment - 525 to 1630 KHz.		