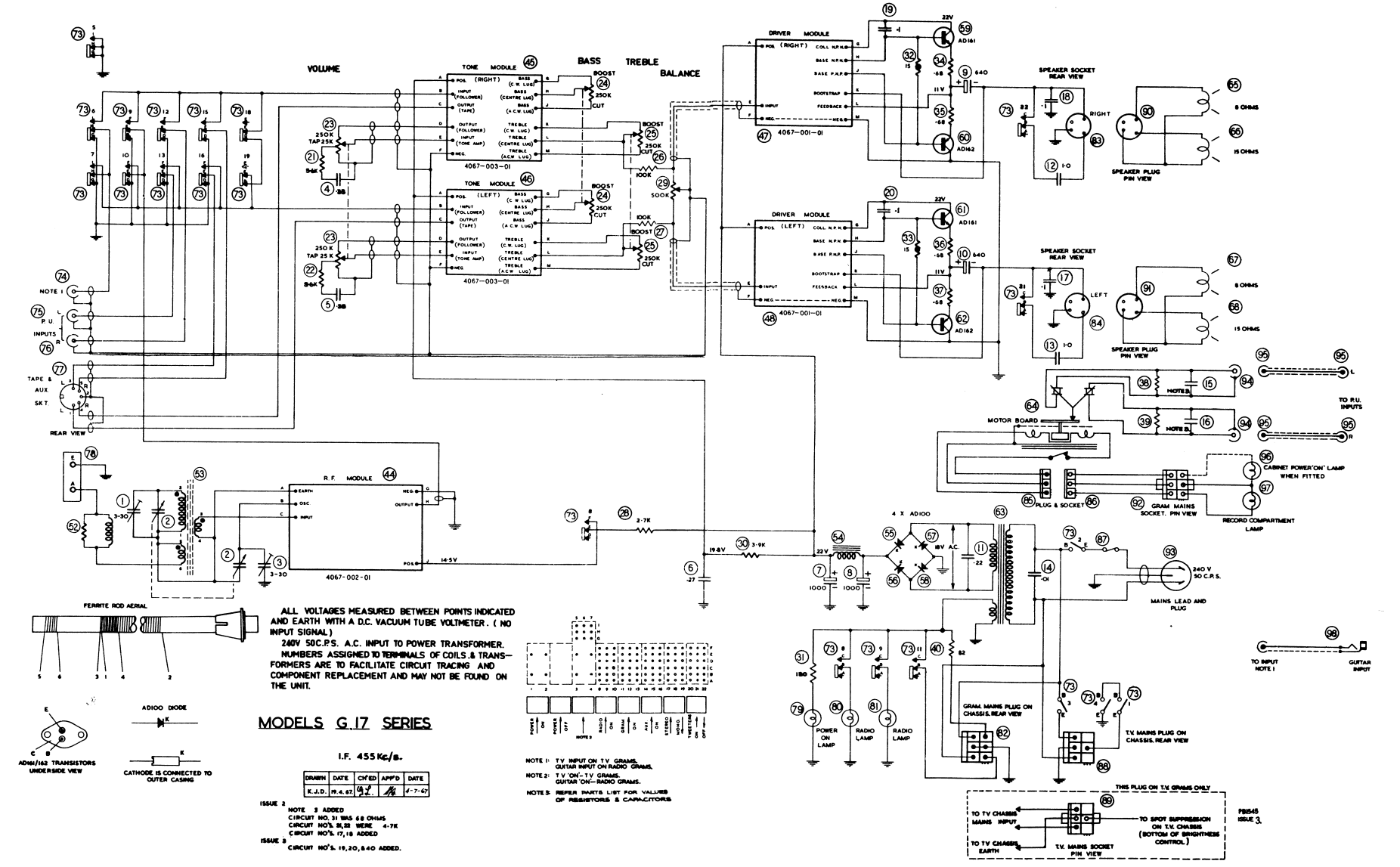


ALL VOLTAGES MEASURED BETWEEN POINTS INDICATED AND EARTH WITH A D.C. VACUUM TUBE VOLTMETER. (NO INPUT SIGNAL)

240V 50C.P.S. A.C. INPUT TO POWER TRANSFORMER.

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

MODELS G.17 SERIES

I.F. 455 Kc/s.

DRAWN	DATE	CH'ED	APP'D	DATE
K.J.D.	19.4.67			4-7-67

ISSUE 2
NOTE 2 ADDED
CIRCUIT NO. 31 WAS 68 OHMS
CIRCUIT NO'S. 21,22 WERE 4-7K
CIRCUIT NO'S. 17,18 ADDED

ISSUE 3
CIRCUIT NO'S. 19,20,&40 ADDED.

NOTE 1: TV INPUT ON T.V. GRAMS. GUITAR INPUT ON RADIO GRAMS.

NOTE 2: T.V. 'ON'-T.V. GRAMS. GUITAR 'ON'-RADIO GRAMS.

NOTE 3: REFER PARTS LIST FOR VALUES OF RESISTORS & CAPACITORS

PB1545 ISSUE 3.

Oper. No.	Generator Connection	Generator Frequency	Instructions
1.	Refer Para. A. & B.	525 Kc/s	Tuning capacitor plates fully meshed against end of travel stop. Adjust oscillator coil iron core and rod aerial adjusting ring for maximum output.
2.	As per oper. 1	1610 Kc/s	Set tuning pointer to 1610Kc spot on dial. Adjust oscillator and aerial trimmer capacitors for maximum output.
3.	As oper. 1	600 Kc/s	Tune receiver to generator signal and adjust rod aerial adjusting ring for maximum output.
4.	As oper. 1	1400 Kc/s	Tune receiver to generator signal and adjust aerial trimmer capacitor for maximum output.

ADJUSTMENT OF COLLECTOR CURRENT

This should be performed after a driver module or output transistors or associated componentry have been replaced.

EQUIPMENT Current Meter - 0-50mA. DC. terminated with lead and socket assy. Part No. 4078-018-01, positive terminal to red sleeve.

CONDITIONS Volume Control set at minimum. No input signal.
Connect an 8 ohm impedance speaker to receiver socket.
Remove link from pins "O" and "N" on Driver Module board.
Place meter lead socket on to test pins "O" and "N". Connector with red sleeving is to be connected to pin "N".

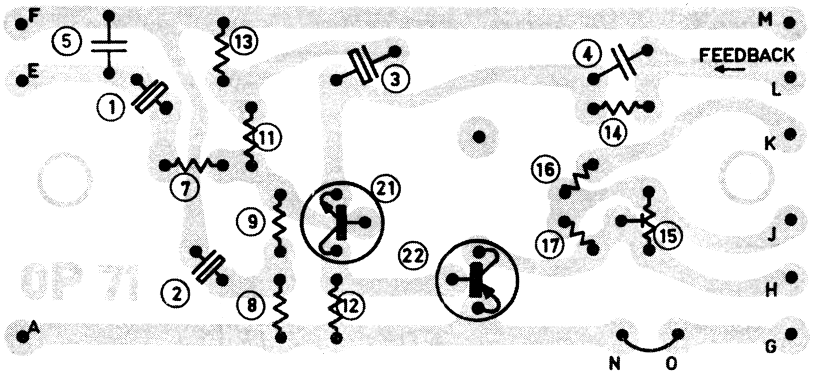
Adjust 100 ohm potentiometer circuit No. 15 until a meter reading of 20 mA. ± 2 mA. is indicated.

Remove meter lead plug and reconnect link to test pins.

AUDIO AMPLIFIER GAIN AND BALANCE TEST

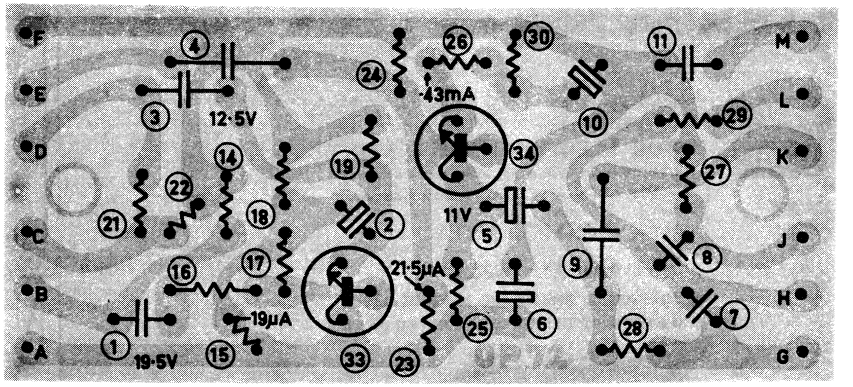
Audio Frequency Generator	-	1000 cps.- 600 ohms impedance.
Output Meter	-	8 ohms
Volume Control	-	Maximum, clockwise
Bass Control	-	Maximum, clockwise
Treble Control	-	Maximum, clockwise
Balance Control	-	Clockwise position
Function Switch	-	GRAMO button "in" MONO button "out"

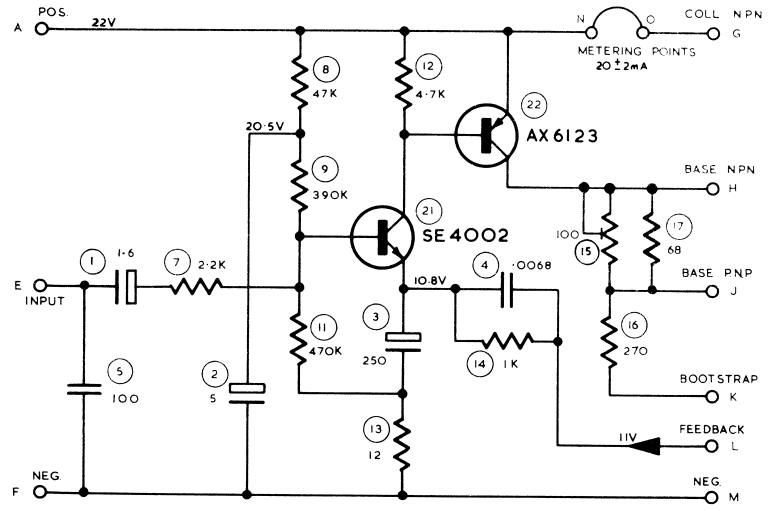
Disconnect pick-up leads from input sockets.
Connect audio generator output leads to an input socket.
Connect an 8 ohm speaker to one output socket and the output meter to the other output socket.
Set the output of audio generator to 16 millivolts.
With equipment connected as above, the output meter should read a minimum of 50 milliwatts.
Exchange output meter and speaker connections to opposite channels. Turn Balance control to anticlockwise position.
Difference in output between the two readings must not exceed 2dB.



DR'WN	DATE	CH'ED	APP'D	DATE
K.J.D.	12.4.67	G.L.	L.M.	15-5-67

ISSUE 2 CIRCUIT NO 5 ADDED PB1535 A

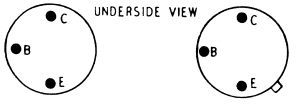




SE4002 TRANSISTOR

AX6123 TRANSISTOR

UNDERSIDE VIEW



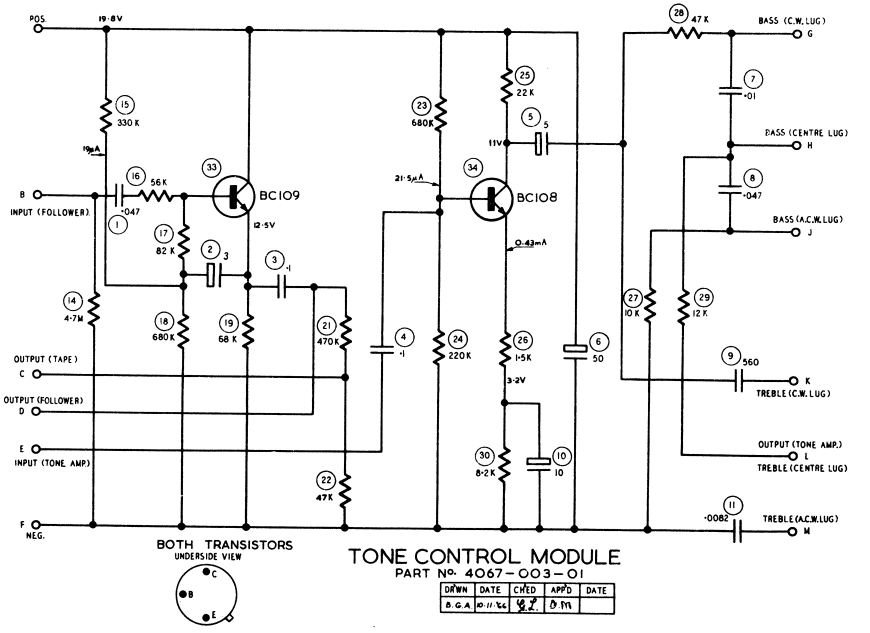
DRIVER MODULE

PART No. 4067-001-01

DR'WN	DATE	CH'ED	APP'D
G B	11 11 '66	G.L.	

ISSUE 2 (1) WAS 5 uF. (5) 100pF ADDED

PB1534



BOTH TRANSISTORS

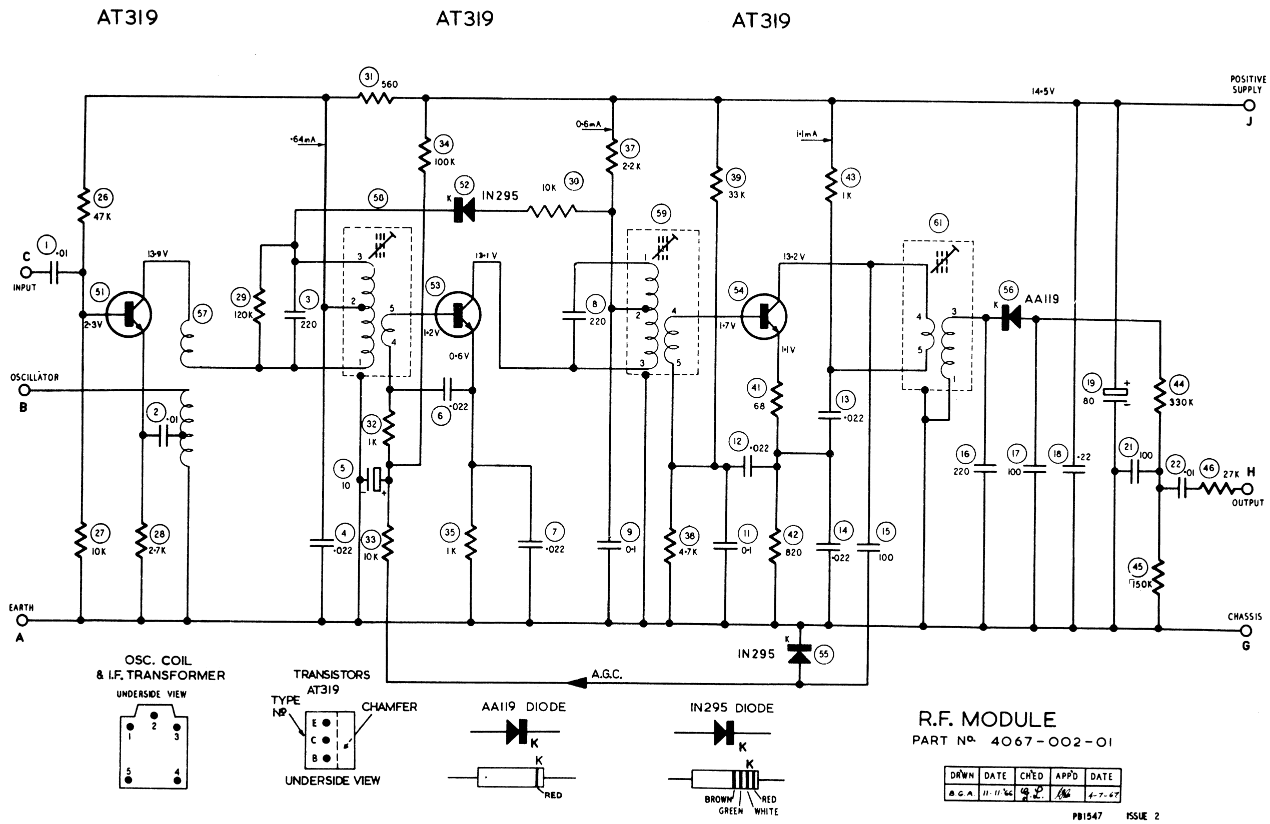
UNDERSIDE VIEW

TONE CONTROL MODULE

PART No. 4067-003-01

DR'WN	DATE	CH'ED	APP'D	DATE
B.G.A	10.11.66	G.L.	D.M.	

A 90 Astor G17AD

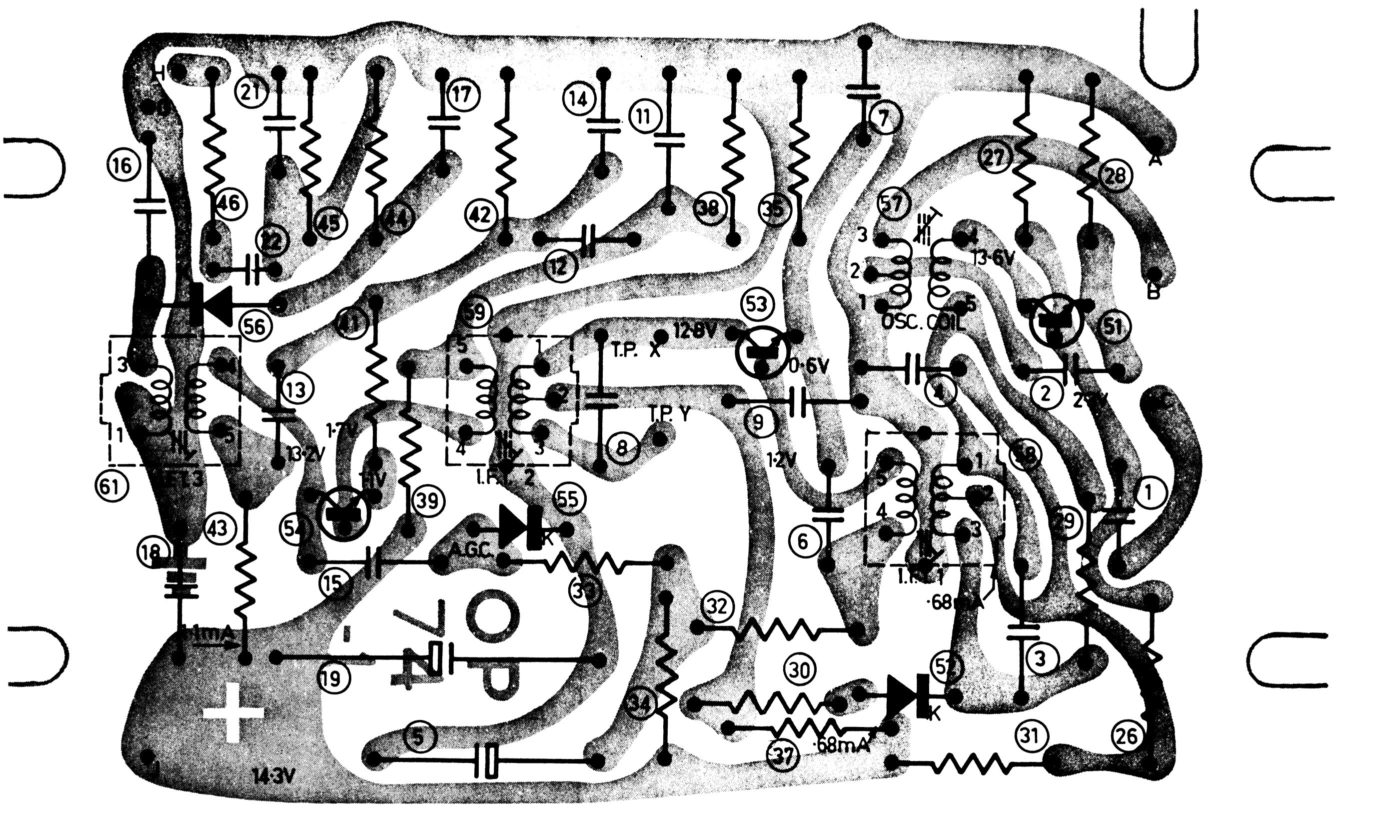


R.F. MODULE

PART No. 4067-002-01

DRWN	DATE	CH'ED	APP'D	DATE
B.G.A.	11.11.'66	G.L.	[illegible]	4-7-67

PB1547 ISSUE 2



ALIGNMENT EQUIPMENT

Signal Generator	-	Modulated 400 cps
Output Meter	-	8 ohms impedance
Generator Series Capacitor	-	.1uF Part No. 4006-005-03
Alignment Tools		

(a) Flat metal blade end - Part No. 4121-001-01 for I.F.T. and Osc. coil iron core adjustment.

(b) Hexagonal socket type - Part No. 4121-028-02 for trimmer capacitor adjustment.

ALIGNMENT CONDITIONS

Volume Control	-	Maximum, clockwise.
Bass Control	-	Maximum, clockwise.
Treble Control	-	Maximum, clockwise.
Balance Control	-	Clockwise position.
Function Switch	-	"Radio" position, button "in"
Output Level	-	50 milliwatts
Output Meter Connection	-	To right channel speaker socket (speaker disconnected).
Supply Voltage	-	240 volt 50 cycle.

INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Set 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 "RF" circuit board(term 3 of rod aerial)	455 Kc/s	Adjust iron core of 3rd IF trans. for max. output.
2.	As oper. 1.	455 Kc/s	Adjust iron core of 2nd IF trans. for max. output.
3.	As oper. 1.	455 Kc/s	Adjust iron core of 1st IF trans. for max. output.

SETTING THE DIAL POINTER

Turn tuning spindle until tuning capacitor plates are fully in mesh.

Slide pointer along cord until the pointer aligns with the end of travel spot 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.

A90 Astor G17AD

ASTOR ELECTRONICS PTY. LTD.

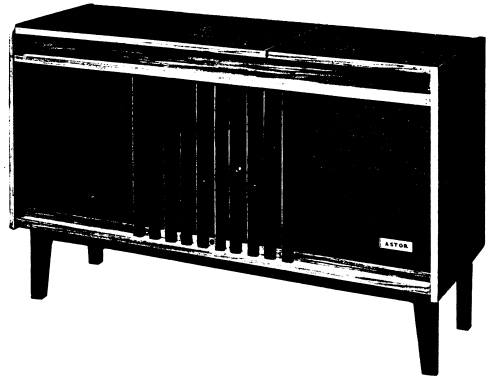
DIVISION OF ELECTRONIC INDUSTRIES LTD., BOX 183, P.O. SOUTH MELBOURNE

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

SERVICE DATA

MODEL "G17AD"

15 TRANSISTOR BROADCAST BAND RECEIVER AND A FOUR SPEED STEREO RECORD CHANGER



Tuning Range	525 - 1610 Kilocycles
Intermediate Frequency	455 Kilocycles
Power Output	4 Watts each channel
Power Source	240 Volts 50 Cycle
Power Consumption	35 Watts

CAUTION: Disconnect receiver power lead plug from mains cocket before making adjustments inside the Cabinet.

CHASSIS SERIAL NUMBER

The number is stamped into the rear wall of the chassis and is visible when the cabinet back is removed.