

ASTOR MODEL 'GB030'

THREE UNIT RADIO-STEREOGRAM

FEATURING

A 19 TRANSISTOR BROADCAST BAND RECEIVER AND A FOUR SPEED STEREO RECORD CHANGER

Tuning Range

525-1610 KHz

Intermediate Frequency 455 KHz

455 KHz

Power Output

10 Watts each Channel

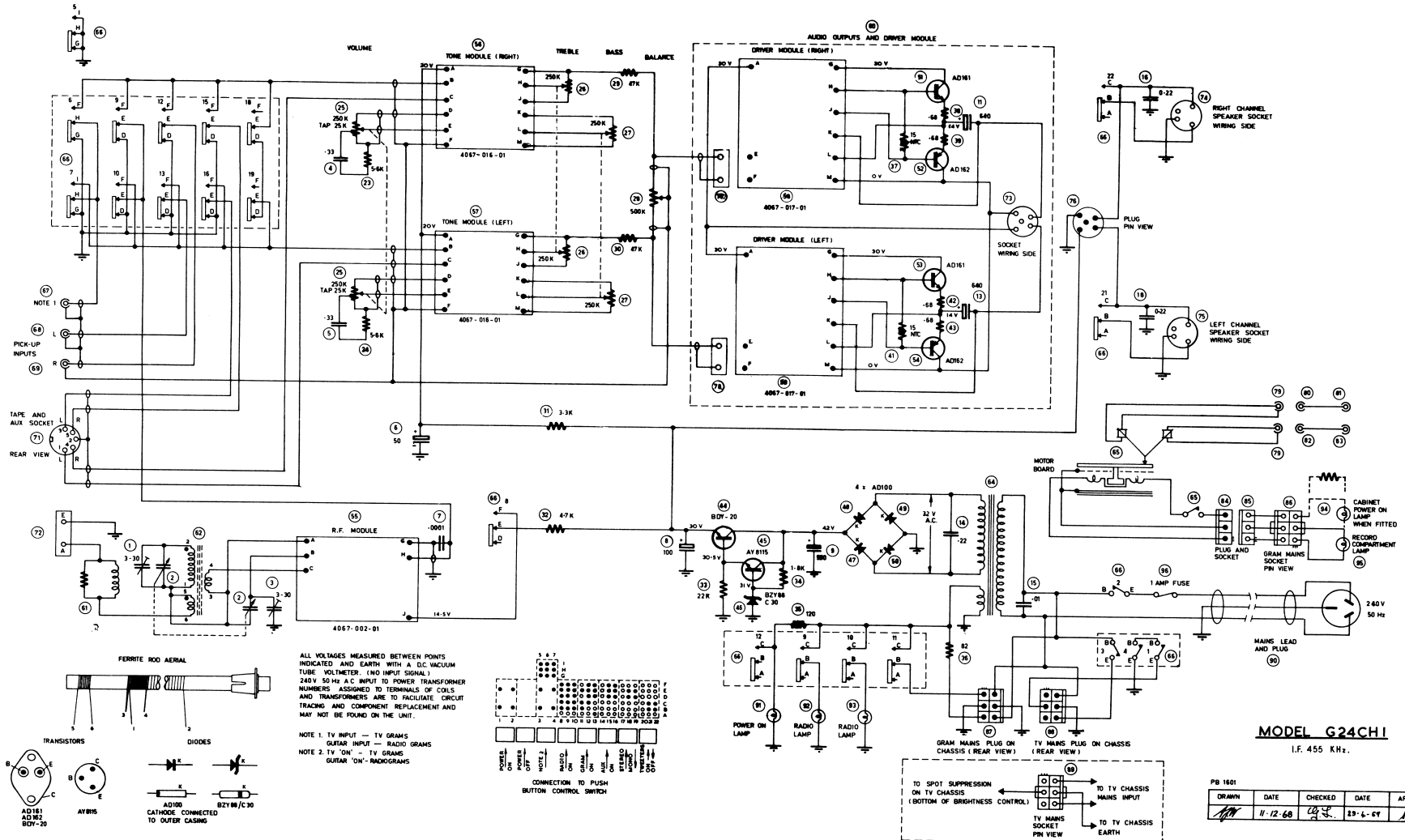
Power Source

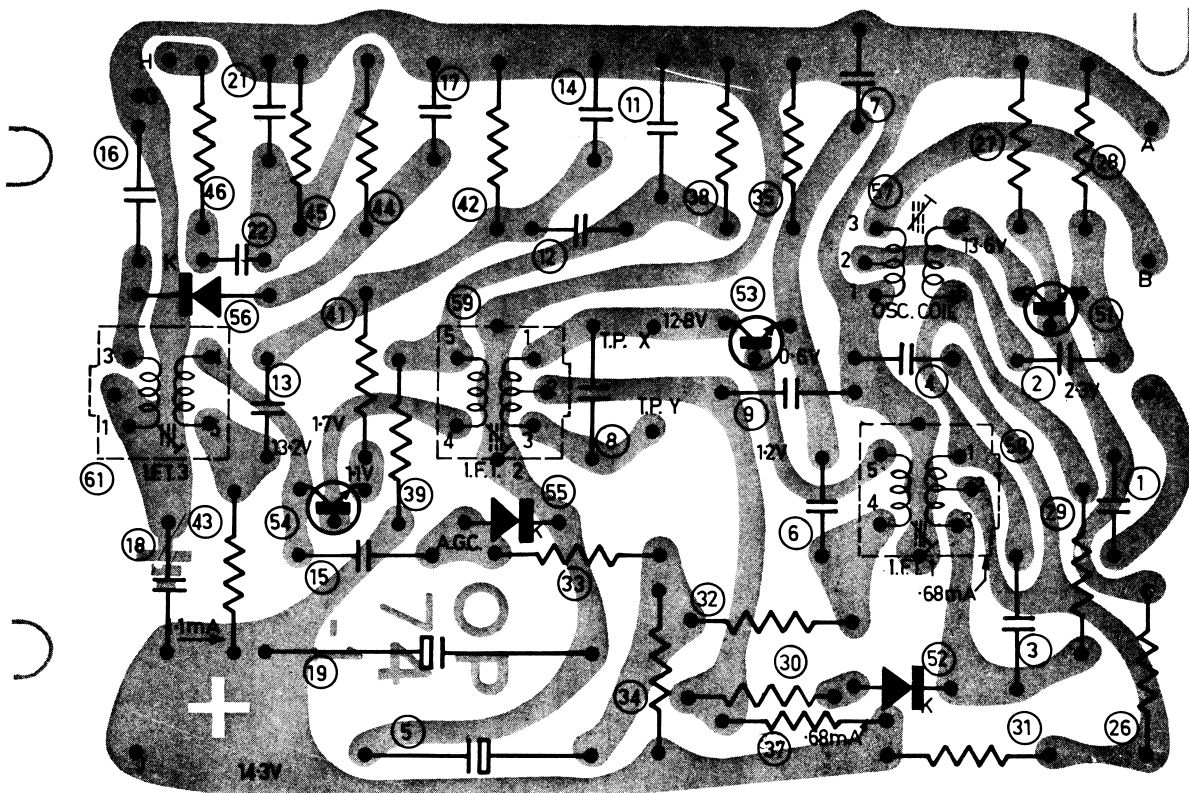
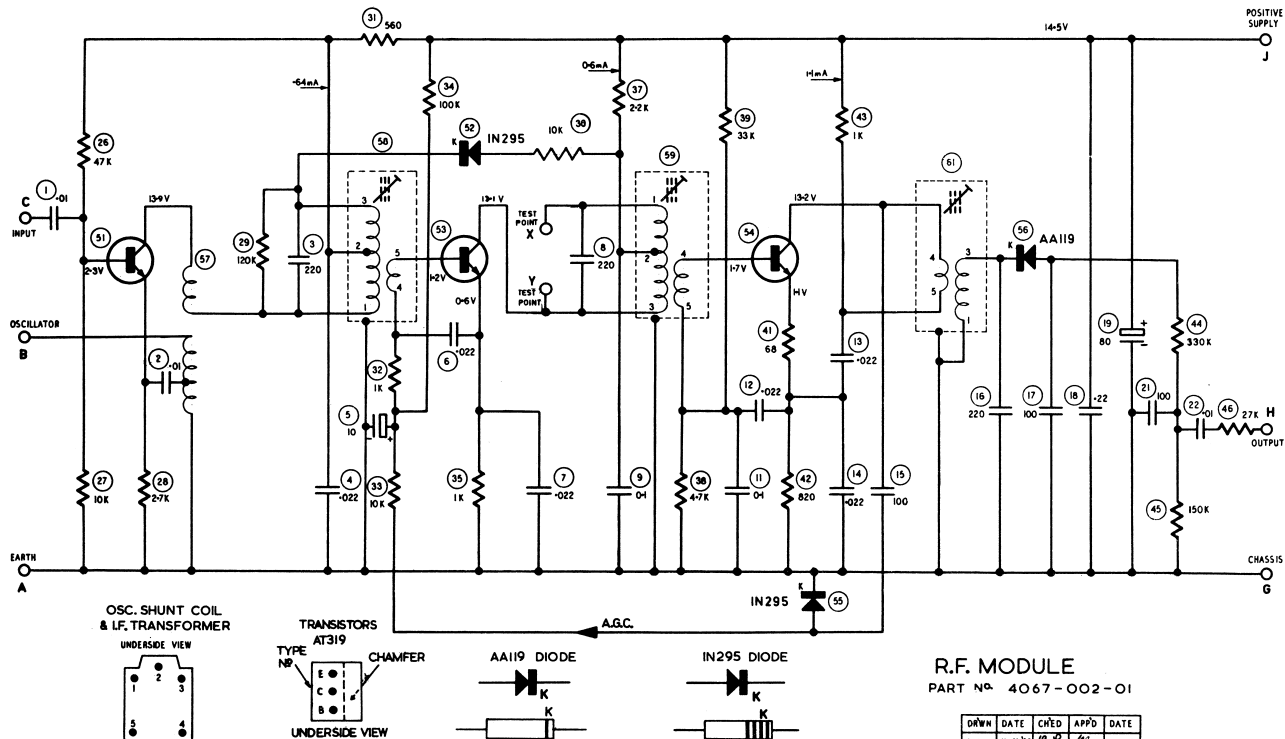
220-250 Volts, 50 Hz.

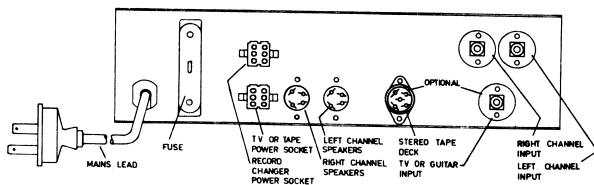
Power Consumption

24 Watts - Radio

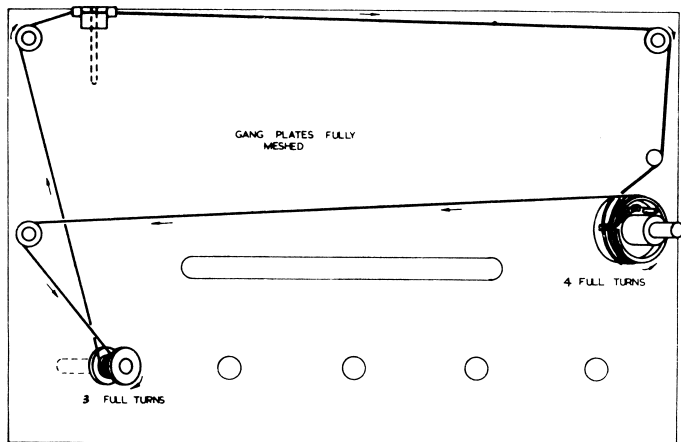
42 Watts - Gramo







7126-485-01

CONNECTIONS TO REAR OF RADIO CHASSIS

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.

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 from 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 per oper. 1	600 Kc/s	Tune receiver to generator signal and adjust rod aerial adjusting ring for maximum output.
4.	As per 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".

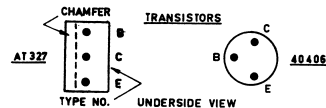
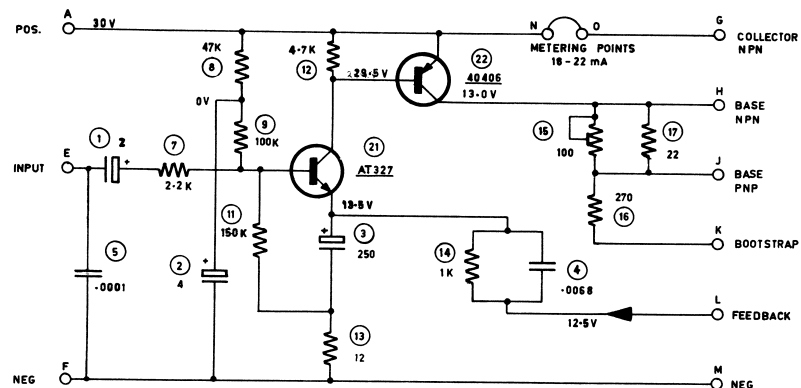
Adjust 100 ohm potentiometer circuit No. 15 until a meter reading of 20mA \pm 2mA. is indicated.

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"

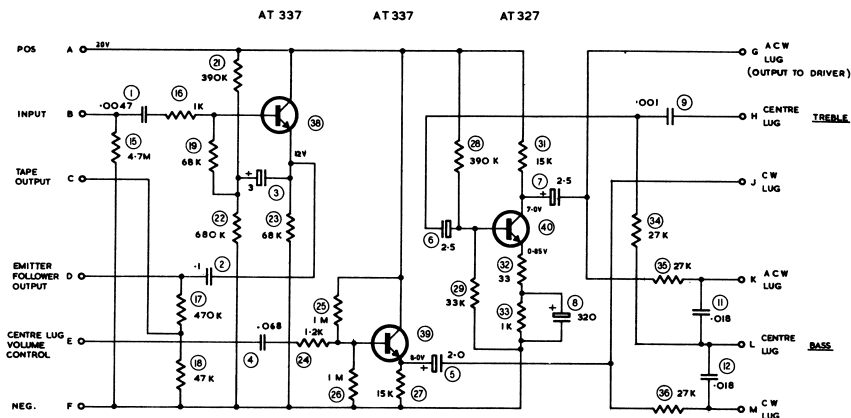
Disconnect pick-up leads from input sockets.
 Connect audio generator output leads to an input socket.
 Connect an 8 ohm speaker to one output socket and the output meter to the other output socket.
 Set the output of audio generator to 16 millivolts.
 With equipment connected as above, the output meter 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.



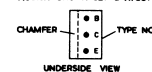
DRIVER MODULE
PART NO. 4067-O17-O1
CIRCUIT BOARD OP 110

DRAWN	DATE	CHK'D	APP'D	DATE
APM	16-12-68	5.2	1/6	29-4-69

PB 1502



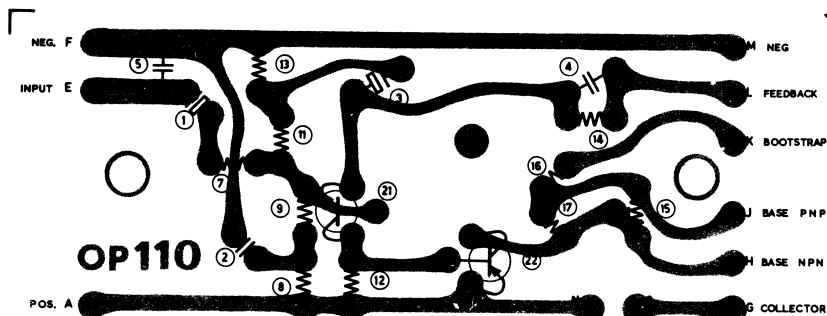
TRANSISTORS AT327 & AT337



TONE CONTROL MODULE
PART NO. 4067-O16-O1
CIRCUIT BOARD IDENT OP 105

DRAWN	DATE	CHECKED	APP'D	DATE
APM	17-6-68	1/6	1/6	14-4-69

PB 1503



CIRCUIT BOARD DIAGRAM
DRIVER MODULE
PART NO. 4067-O17-O1



CIRCUIT BOARD DIAGRAM
TONE CONTROL MODULE
PART NO. 4067-O16-O1