ASTOR MODEL GBO24

SERIES 1 AND SERIES 2

SOLID STATE MONOPHONIC RECORD PLAYER

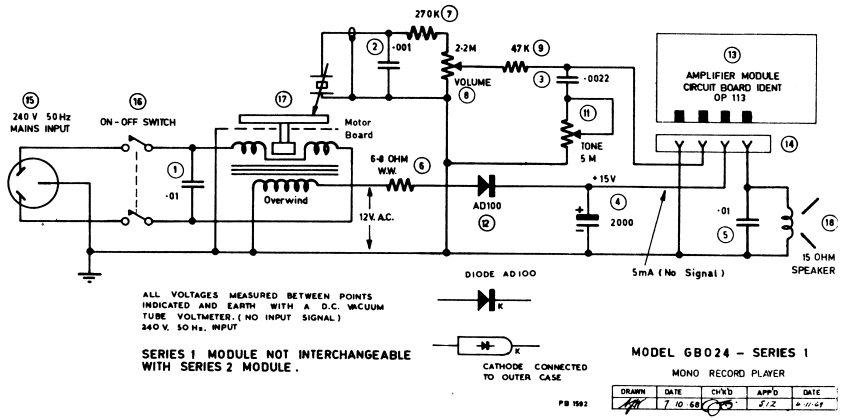
FOR OPERATION FROM 240 VOLT 50 Hz SUPPLY MAINS

This unit is fitted with a high compliance cartridge suitable for playing stereo recordings.

SUPPLY SOURCE
240 VOLTS 50 Hz

POWER CONSUMPTION
20 WATTS APPROX.

POWER OUTPUT
500 milli WATTS



Note : Use only 15 ohm impedance speaker

ACCESS TO INTERIOR

Open cabinet lid and remove four screws fastening control panel and motor mounting to cabinet. Lift this section out of cabinet base.

CHASSIS SERIAL NUMBER

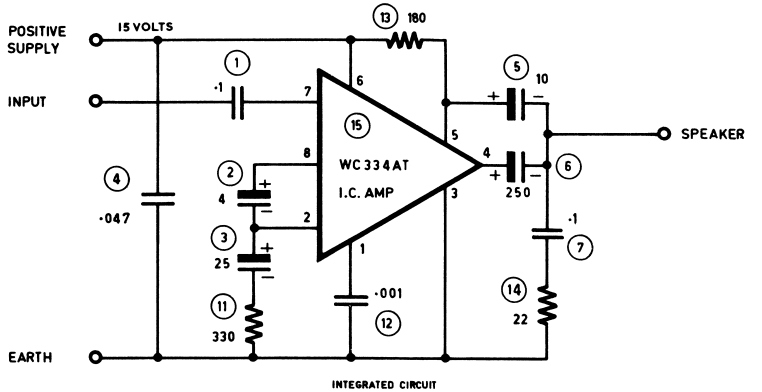
Located on metal chassis and is visible when control panel section is removed from cabinet.

CAUTION

Disconnect receiver power lead plug from mains socket before making adjustments inside the cabinet.

Circuit No.	Value	Capacitors Description	Tol ±	Rating V.DCW	Part Number
1	.01uF	Polyester	10%	630	4009-014-19
2	.001uF	Polyester	10%	400	4009-010-07
3	.0022uF	Polyester	10%	400	4009-002-06
4	2000uF	Electrolytic		25	4005-016-05
5	.01uF	Ceramic disc	20%	25	4008-039-07

Circuit No.	Value	Resistors Description	Tol ±	Rating Watts	Part Number
6	6.8	Carbon	10%	1/2	4022-086-01
7	270K	Carbon	10%	1/2	4022-019-01
8	2.2M	Volume Control			4032-040-03
9	47K	Carbon	10%	1/2	4022-051-03
10					
11	5M	Tone Control			4032-037-04

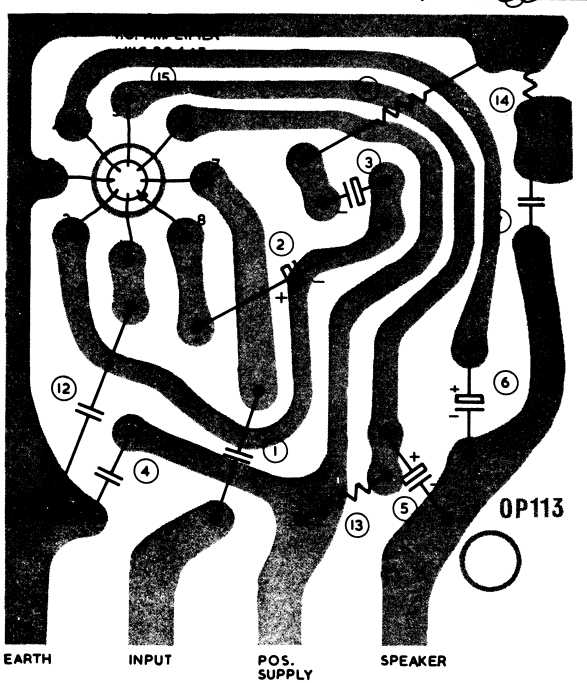


NOTE : THIS MODULE USED IN GB024 SERIES 1 ONLY

AUDIO AMPLIFIER MODULE
PART NO. 4067-018-01
CIRCUIT BOARD IDENT. OP113

DRAWN	DATE	CH'K'D	APP'D	DATE
	4-10-68		S.I.Z.	4-11-69

PB 1594



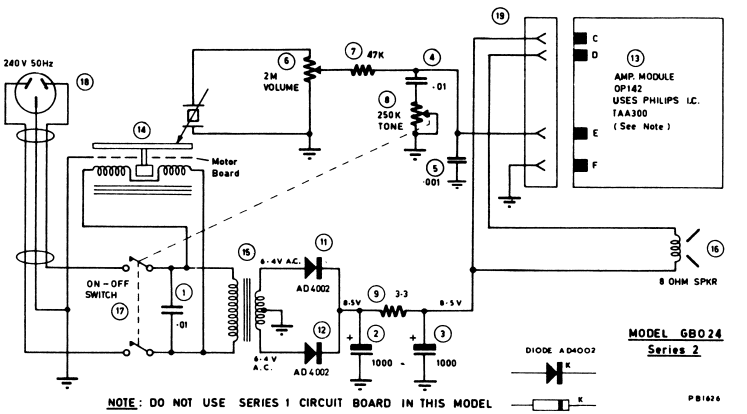
CIRCUIT BOARD OP113
PRINTED WIRING SIDE
I.C. AMPLIFIER MODULE
P/NO. 4067-018-01

DRAWN	DATE	CH'K'D.	APP'D.	DATE
	27/2/69		S.I.Z.	4-11-69

NOTE : THIS BOARD USED IN MODEL GB024 SERIES 1 ONLY

PB 1595

GB024 SERIES 2



MODEL GB024 Series 2

NOTE : DO NOT USE SERIES 1 CIRCUIT BOARD IN THIS MODEL
USE ONLY AMP MODULE OP142

PB1626

DRAWN	DATE	CH K D	APP D	DATE
	24/2/69			10 6 69

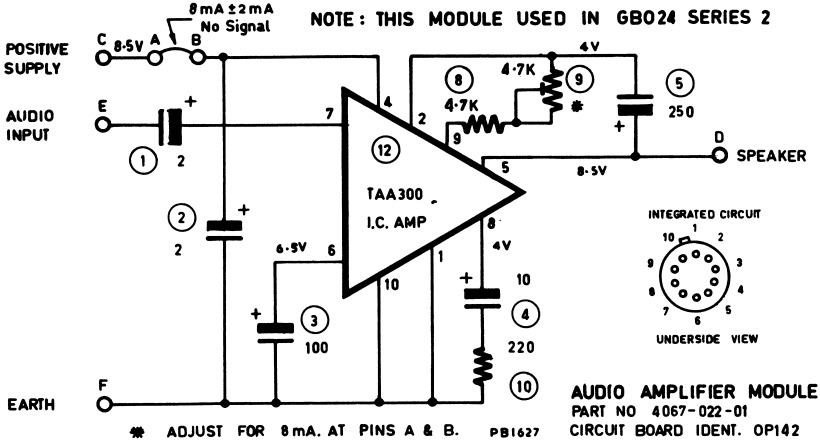
Note : Use only 8 ohm impedance speaker

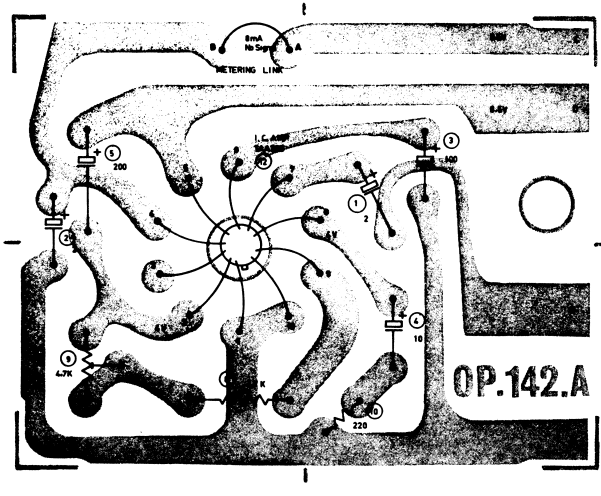
AUDIO AMPLIFIER GAIN TEST

Audio Frequency Generator	-	1000Hz - 600 ohms impedance
Output Meter	-	15 ohms
Volume Control	-	maximum, clockwise
Tone Control	-	maximum treble, clockwise

Disconnect pick-up leads from cartridge.
Connect audio generator output leads to pick-up leads.
Disconnect leads from speaker.
Connect 15 ohm impedance output meter to speaker leads.
Set the output of audio generator to 125 millivolts.
The output meter should read a minimum of 50 milliwatts.

A94 Astor GB024





CIRCUIT BOARD OP142A PRINTED WIRING SIDE

NOTE: THIS BOARD USED IN MODEL GB024 SERIES 2 ONLY

AUDIO AMPLIFIER MODULE

DRAWN	DATE	CH'KD	APP'D	DATE

PB1656

GBO24 SERIES 1 AND 2

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

TRANSPORTING THE UNIT

Before moving the player, always lock the pick-up arm on to the rest pillar provided.

Wind the mains lead around the retainers and insert plug into storage socket on motor board.

PICK-UP STYLUS PRESSURE ADJUSTMENT

The stylus pressure is to be between 6 and 8 grammes. A pressure gauge Part No. 4121-013-01 is available from the Spare Parts Division.

To check the pressure ensure the unit is level with no record on the turntable. Place pressure gauge on the turntable then lower pick-up arm so that stylus locates into the hollow provided on gauge. Adjust for balance and note reading.

Lift the pick-up arm to full extent. Located on the pick-up arm near the pivot point a coiled spring is attached between a lug on the Pivot shaft and a flat metal strip on the pick-up arm. This is fitted under tension.

To adjust the pressure, slide the spring from the strip and refit at correct tension. Increase spring tension to reduce stylus pressure. Decrease spring tension to increase stylus pressure.

GBO24 SERIES 2

INTEGRATED CIRCUIT AMPLIFIER MODULE

PART NO. 4067-022-01

USED IN MODEL GBO24 - SERIES 2 ONLY

Circuit No.	Value	Description	Tol ±	Rating	Part Number
1	2uF	Electrolytic Capacitor		12V	4005-005-14
2	2uF	Electrolytic Capacitor		12V	4005-005-14
3	100uF	Electrolytic Capacitor		12V	4005-002-46
4	10uF	Electrolytic Capacitor		10V	4005-007-24
5	250uF	Electrolytic Capacitor		10V	4005-011-19
6					
7					
8	4.7K ohm	Carbon Resistor	10%	1/2W	4022-005-01
9	4.7K ohm	Trimming Potentiometer			4025-038-02
10	220 ohm	Carbon Resistor	10%	1/2W	4022-017-01
11					
12		Integrated Circuit - type TAA300			4129-004-01

ADJUSTMENT OF QUIESCENT CURRENT

This should be performed after an Integrated Circuit 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 amplifier. Remove link from pins "A" and "B" on I.C. module board. Place meter lead socket onto test pins "A" and "B".Connector with red sleeving is to be connected to pin "A".

Adjust 4.7K ohm potentiometer circuit No. 9 on I.C. Module board until a meter reading of 8mA ± 2mA is indicated.

Remove meter lead plug and reconnect link to test pins.