#### A74

#### TO CHASSIS

# ASTOR MODEL G6E

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- (a) Open record changer storage compartment lids
- 9 Remove two circular nuts from front wall of record storage compartment and one from record
- <u>c</u> Move cabinet front section forward and downward on the hinges until held by support cord
- æ Most service adjustments may be performed with the chassis retained in this position

#### ç RECEIVER CHASSIS

- (a) Open front of cabinet as detailed in paragraph 1.
- ਉ to avoid incorrect channel connections when reconnecting. Note: Before disconnecting speakers and pick up leads, note lead colours and terminations
- (c) Disconnect support cord and support cabinet front with a box or some other suitable object.
- <u>a</u> aerial and Remove screws securing speaker switch to escutcheon, earth leads and record changer motor leads from chassis junction block disconnect speaker and pick-up leads,
- (e) Pull mains lead and plug through opening in cabinet back.
- 3 Remove the four screws fastening escutcheon mount brackets to cabinet front and screws fastening chassis brackets to cabinet front. remove the
- (8) Lift chassis and escutcheon assembly clear of cabinet front
- (E) Refitting chassis and escutcheon assembly is the reverse procedure to removal

#### QF RECORD

Open front of cabinet as detailed in paragraph

(a)

- **(b)** Disconnect record changer motor leads at the chassis junction block
- (c) Note colours and lead terminations then disconnect the pick-up leads from chassis sockets.
- <u>a</u> Turn changer transit screws fully clockwise then rotate clip on end of each screw to a vertical
- (e) Lift changer upward off motor board and out of cabinet
- . <del>S</del> Refitting the changer unit is the reverse procedure to removal. We clockwise rotate clip on end of each screw to a horizontal position. With transit screws fully

## RECORD CHANGER TRANSIT

- (a) mount plate is firm Before transporting. against mount board. the changer transit screws must be turned fully anti-clockwise until unit
- 9 Place pick-up arm on rest pillar and fasten with cord
- (c) Lift overarm at pivot end, swing the overarm to the right over pick-up and fasten with
- <u>و</u> changer unit suspension Before use untie the overarm and pick-up arm then turn transit screws fully clockwise to release

#### GLASS REPLACEMENT

- (a) Open front of cabinet as detailed in paragraph 1.
- 9 Remove chassis and escutcheon assy. as detailed in paragraph 2.

- <u>c</u> Pull off the six push-on type knobs then remove barrel nuts and washers from control bushes.
- Lift escutcheon clear of chassis and remove four nuts and metal support frame
- <u>e</u> dial glass into cavity in escutcheon and refit support frame and nuts. Securely tighten.
- 3 Refit escutcheon to chassis

#### POWER TRANSFORMER MAINS TAP ADJUSTMENT

(a) Open front of cabinet as detailed in paragraph 1.

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- 9 The mains input tap terminal strip is located on the chassis near the power transformer.
- <u></u> Unsolder the mains lead from 230/240 volt tap lug and connect lead to input tap terminal corresponding to the mains supply voltage, i.e. 200 or 250 volts.

# AUDIO AMPLIFIER GAIN AND BALANCE TEST

Maximum volume (fully clockwise)

Function Switch

Volume Switch

Tone Control

Output Meter and Speaker Microphone Volume Control Minimum volume (fully anticlockwise) Maximum treble (fully clockwise)

Connections Output meter to one channel output (speaker disconnected) and a speaker connected to other channel output.

AF. Generator Connection Generator Frequency

Before proceeding, 1000 c.p.s. - 600 ohm output impedance sockets. Remove plugs and connect generator output lead to identify pick-up lead plugs to receiver

Set generator sutput to 200mV (0. 2 volts RMS). both sockets. Turn Balance Control to stop position at one end and

Transfer output meter and speaker connections to opposite channels. note meter reading.

Turn Balance Control to opposite stop position and note meter reading

anticlockwise and clockwise positions. channel is identical. between the channels must not exceed 2dB. The output from each channel should be between 100 and 300 milliwatts and the difference in output The position of the control should be approximately midway between fully Set the Balance Control so that the output from each

# MICROPHONE AND GUITAR PREAMPLIFIER

Turn Microphone Volume Control to maximum (fully clockwise) and set volume control to minimum (fully anticlockwise). Adjust Balance Control to obtain identical output from each channel which should be between 100 and 300 miliwatts.

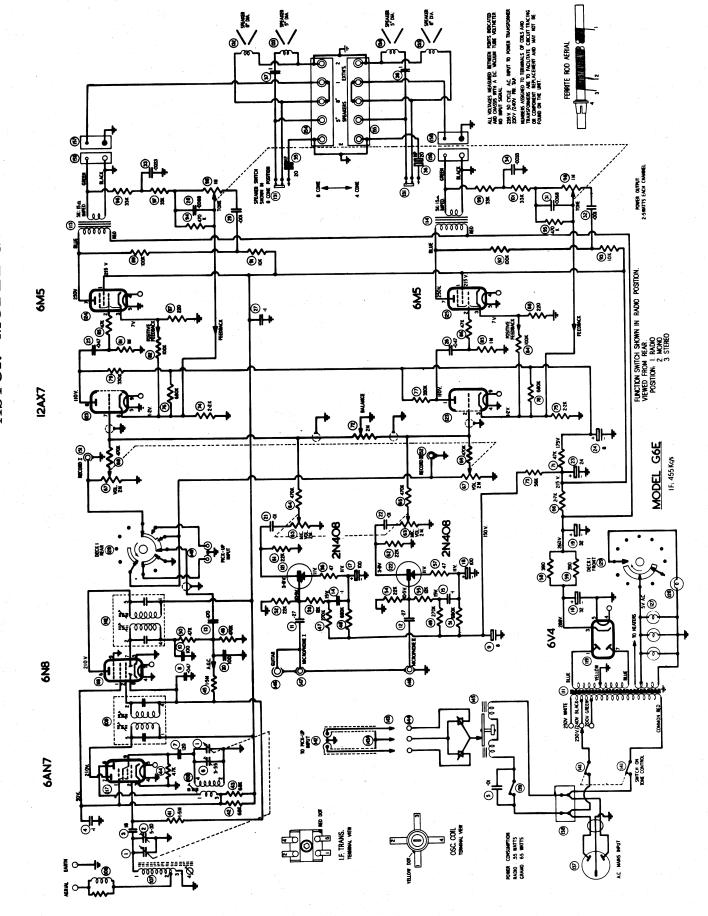
With controls set as above, connect generator output to Guitar jack socket, only should be between 100 and 300 milliwatts. Output from one channel

#### SPEAKER PHASING

IMPORTANT If speaker lead plugs are to be removed from receiver sockets, identify left and right hand channel outlets and lead plugs to prevent wrong connection.

connections to ensure correct phasing when reconnecting. detailed below. It is essential that the speakers be phased correctly. If the speaker is removed for service, A method for checking the phasing is note lead

- (a) Play a monophonic record.
- 9 If the phasing is correct, the reproduced sound will appear to be radiated from a point near the centre of the cabinet. The listener should be located 4 feet away in front of the cabinet.
- <u>c</u> With incorrect phasing the quality of reproduction will be poor, it will appear to be lacking in bass response and will appear to be radiated from both ends of the cabinet.
- <u>a</u> one of the eight inch speaker then repeat the test detailed above. The green and black terminals of the five inch speakers are to be connected to the green and black terminals of the If the speakers are incorrectly phased, reverse the leads connected to the voice coil terminals of adjacent eight inch speaker.



# ASTOR MODEL G6E

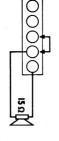
# CONNECTIONS TO SPEAKER TERMINAL STRIPS



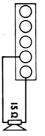
Links on terminal strips for use as normal stereogram Identical strips for left and right channels.

#### EXTENSION SPEAKERS

If two extension speakers are required, connect one to each strip.

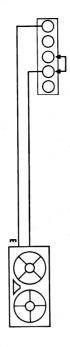


terminals 1 and 2. Internal speakers An extension speaker connected to remain connected

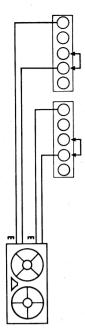


Extension speaker connected, internal speakers disconnected

#### TAPE RECORDERS



ę To connect a mono tape recorder for recording from radio, microphone records (mono or stereo), use either the left or right terminal strip Set tone control to fully clockwise position. Function switch to Mono



To connect a stereo tape recorder for recording stereo. Function switch to Stereo.

### ALIGNMENT EQUIPMENT

Output Meter R. F. Signal Gen Alignment Tools:-01mF Capacitor - Part No. 4003-031-02 - modulated 400 cps. 15 ohm imped.

(trim caps, adj. and IFT core adj.) Flexible rod type Part No. 4121-018-01 Blade tip type, (osc. core adj.) Part No. 4121-015-01

I. F. Attenuator Part No. 4121-007-02

the cabinet for alignment purposes; refer The chassis does not have to be removed from

ALIGNMENT CONDITIONS

paragraph: ACCESS TO CHASSIS.

Function Switch Radio position

Volume Control Tone Control Max. vol. (fully clockwise)
Max. treble (fully

clockwise)

Output Meter Output Level Balance Control 50 milliwatts Mid position

Connection trans Speaker voice coil dis-Across sec. of one output

connected.

# INTERMEDIATE FREQUENCY TRANSFORMER ALIGNMENT

Oper. R.	F. Si	eaks will be obtain where cores are fur Generator Frequency	Maximum output peaks will be obtained at two positions of transformer cores.  Correct setting is where cores are furthest apart.  g. Gen. Generator  tion Frequency Instructions  frequency Instructions
<b>1</b>	.01mF cond. in series to grid end of rod aerial.	455 Kc/s	Turn tuning control to HF. end of travel. Peak 2nd IFT. pri. and sec. cores for max.
.20	As oper. 1	455 Kc/s	Peak 1st IFT. pri. & sec. cores for max.

## DIAL POINTER SETTING

Turn tuning capacitor to L. F. end of travel; plates fully meshed. of end of travel spot at left end of dial. Set centre of dial pointer on centre

## BROADCAST ALIGNMENT

aerial wire, then fashion wire to a vertical position. To inject a signal into tod aerial, connect to Sig. Gen. active terminal approx. two feet of

aerial Place vertical wire in line with, and not less than 1 ft. from inductance trimmer end of rod

Ç Connect IF. attenuator between pin 2 of 6N8 socket and chassis.

ω	10			Oper. No.
Repeat operations 1 and 2.	Refer para. A. & B.	<b>.</b>	Refer para. A & R	R. F. Sig. Gen. Connection
2.	1400 Kc/s		600 Kc/s	Generator Frequency
Tuning range after alignment 525 to	Turn tuning gang and pointer to 1400 Kc/s dial mark. Adjust oscl. and aerial trimmer capacitors for max. output	pointer set in this position. Adjust oscl. coil core and rod aerial ind. trim (metal ring) for max. output.	Turn tuning gang and dial pointer to 600 Kc/s dial mark. Leave gang and	Instructions

1640 Kc/s. approx.