## ALIGNMENT EQUIPMENT

Signal Generator Output Meter Generator Series Capacitor Alignment Tools - Modulated 400 cps

- 8 ohms impedance

- .1uF Part No. 4006-005-03
- (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 Bass Control Treble Control Balance Control Function Switch Output Level Output Meter	- - -	Maximum, clockwise. Maximum, clockwise. Maximum, clockwise. Clockwise position. "Radio" position, button "in" 50 milliwatts
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.

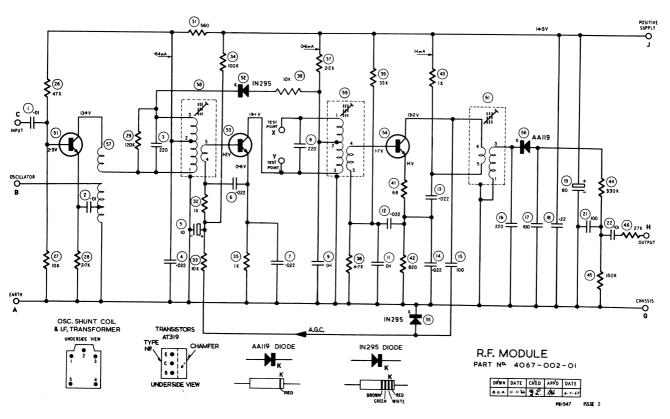
Slide pointer along cord until the pointer aligns with the end of travel spot on dial reading.

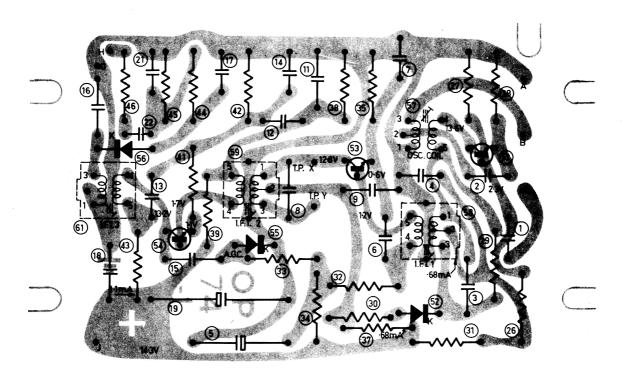
### BROADCAST ALIGNMENT

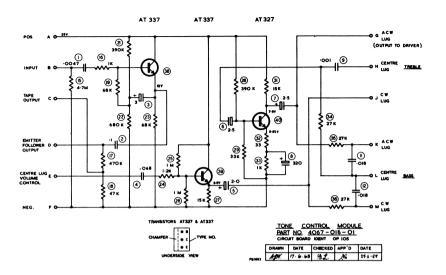
- A. To inject a signal into the receiver connect 2 ft. of aerial wire to the "hot" terminal of signal generator. Fashion wire into a vertical position.
- B. Place receiver so that ferrite aerial is uppermost and horizontal.

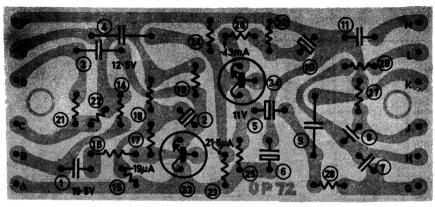
  Tuning end of receiver is to be toward but not less than one foot from generator aerial wire

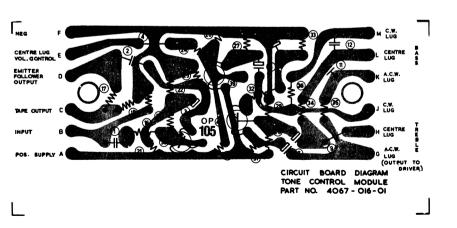
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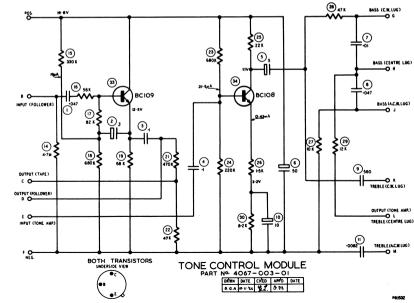


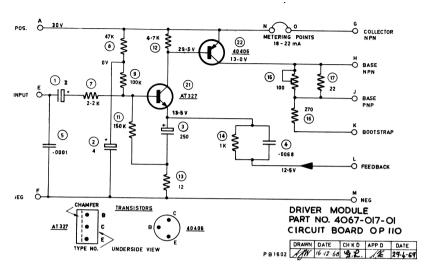


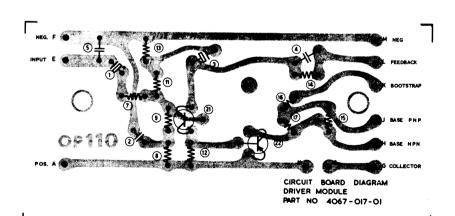


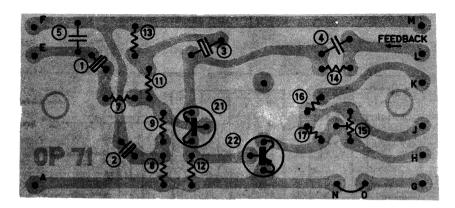






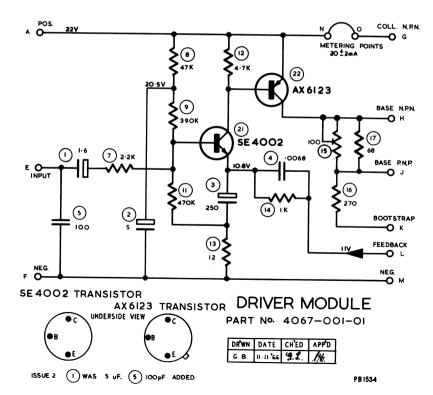


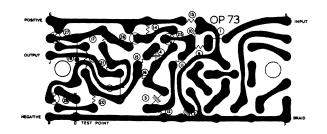




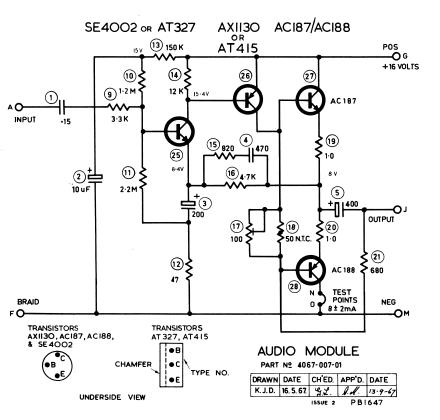
ISSUE 2 CIRCUIT NO 5 ADDED

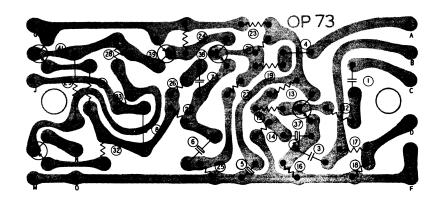
PB1535 A





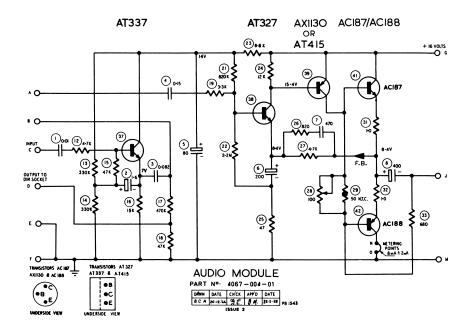
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AUDIO OUTPUT MODULE PART NO. 4067-004-01

PB1542 A B



### CHASSIS REMOVAL

- Disconnect mains lead plug from supply socket then remove rear panel of control cabinet.
- Identify connections then remove plugs from receiver sockets. Remove external aerial and earth terminal plate also the anchor clips from speaker leads.
- 3. Remove screws fastening chassis to cabinet.
- 4. Remove rotary control knobs and the barrel nuts.
- 5. Slide chassis out of cabinet.
- 6. Reverse procedure when refitting.

# RECORD CHANGER REMOVAL

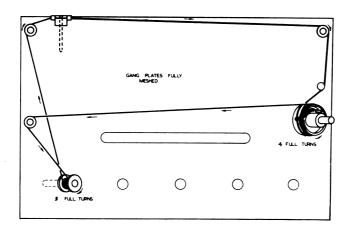
- 1. Disconnect mains lead plug from supply socket.
- Identify connections then remove pick-up lead plugs and motor mains lead plug from changer sockets.
- 3. Screw down the changer transport screws then turn retainer clips to the vertical position.
- 4. Lift changer out of the cabinet.
- 5. Reverse procedure when refitting.

# PICK-UP STYLUS PRESSURE ADJUSTMENT

The stylus pressure is to be 4 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.

To adjust the pressure refer to details in record changer booklet or turntable instruction disc.



# CHASSIS SERIAL NUMBER

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

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 "0" and "N" on Driver Module board.

Place meter lead socket on to test pins "0" 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  $20\text{mA} \pm 2\text{mA}$ . 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  $50\ \text{milliwatts}$ .

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.