

P 35 MK II



P 35 Mk II STEREO VALVE POWER AMPLIFIER

INTRODUCTION

Please take the time to read this manual before attempting to install or use this unit. There are several points you need to know prior to operation.

To obtain the best results from your P 35 Power Amplifier, we strongly recommend that you choose ancillary equipment of the highest quality.

When first switched on the Power Amplifier will sound somewhat hard with a closed sound stage. This is quite normal. The P 35 will require an initial burn-in period of approximately 50 hours normal use. Even after the initial burn-in period, the P 35 will not perform at its best for at least one hour after switching on from cold.

Your P 35 is a 'Class A' stereo power amplifier producing 35 watts R.M.S. of power into an 8Ω load. A few points for people who are not familiar with BEARD 'Class A' power amplifiers. Do not be fooled by the power rating of 35 watts, this amplifier is capable of higher sound levels than its rating suggests and can reach 102 dBA on an 8Ω load.

Another feature of the P 35 is that there are NO user controls, the valve biasing is an automatic floating bias. We recommend that to keep the P 35 at peak performance, the valves be replaced for a new set after approximately 3000 hours of use.

PACKAGING

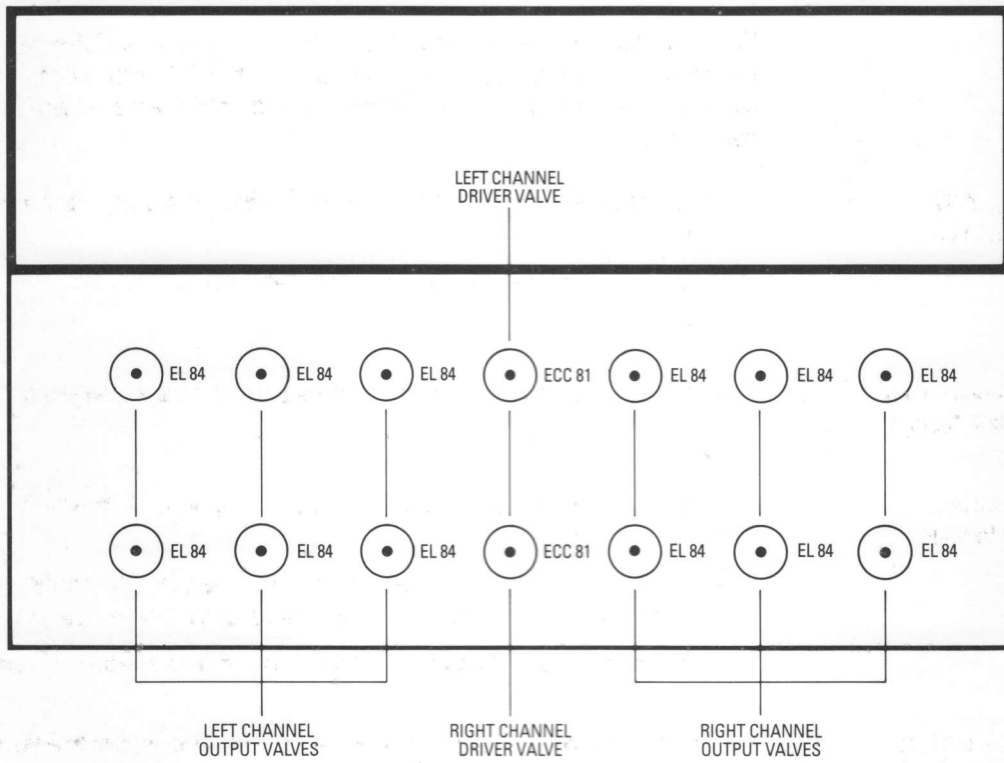
Immediately upon receiving your P 35 Power Amplifier, inspect the carton for possible damage incurred during shipment. If the carton is visibly damaged, a claim must be filed with the carriers as soon as possible.

Carefully unpack the unit. PLEASE NOTE that the mesh cover protecting the valves is a push on fit and can be easily dislodged when unpacking. Save all packaging materials for future shipment, in case it proves necessary to return the unit to the distributor or manufacturer.

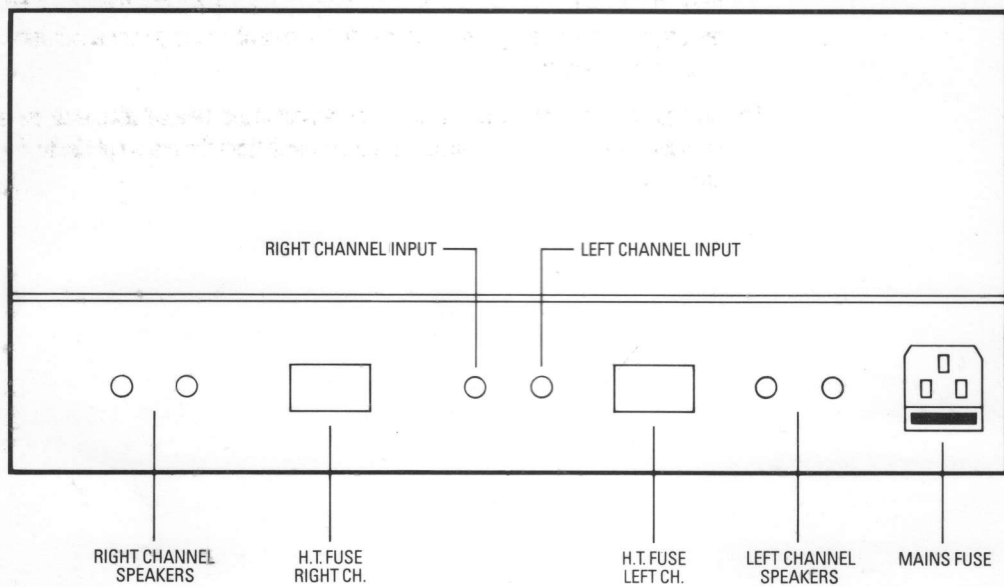
INSTALLATION

1. Choice of Pre-Amplifier: The P 35 is compatible with most high quality solid state or valve pre-amplifiers, BUT its perfect partner is the BEARD CA 35 Pre-Amplifier. in terms of quality and design.
2. Choice of Speakers: The P 35 will work with most speakers with a fixed nominal impedance of 8Ω . Suffice it to say that very good quality cables should be used. It is most important to ensure the polarity of the speaker cables is correct. Red means positive (+) and Black means negative (-) as marked on the back of the amplifier and speakers. Most speaker cables have a form of identifying the polarity, usually by means of a stripe or rib on the outer sleeving.
3. The P 35 Power Amplifier utilises 14 valves, as a result it requires adequate ventilation. Do not install in an enclosed area or cover the ventilation slots of the unit. A free circulating area of approximately 12 inches (300mm) around the unit will be sufficient.
4. Switch on your Power Amplifier ensuring that the output from the pre-amplifier is properly connected to the P 35 and that the speaker cables make a good sound connection.
5. For the first few minutes after switching on the P 35, keep a watchful eye on the valves, checking that all the valves are on (all heaters are glowing). If not, see FAULT/REMEDY section.

P 35 MK II PLAN VIEW



P 35 MK II REAR PANEL



CHECK LIST

FAULT

REMEDY

WARNING: No remedy requires internal access to the amplifier, so NEVER remove the bottom cover. However some remedies require valve replacement. PLEASE ensure that the unit is disconnected from the mains for at least 15 minutes, so that the valves can discharge and cool down before removal.

1. Amplifier completely dead after switch on.
 - 1a Check to see that the mains voltage printed on the back of your amplifier matches the line voltage in your area.
 - 1b Check for blown mains fuse (only replace with same type of fuse). Also check fuse in mains plug.

2. Amplifier switches on but no signal passes through.
 - 2a Check that all interconnect leads are making good contact and are in the correct position.

3. Loss of sound on left or right hand channel.
 - 3a Check that all the valves are on (all heaters are glowing). If not, replace faulty valve with new one of the same type.
 - 3b If the problem still persists, swap left channel ECC 81 valve for right channel ECC 81 valve. If the problem transfers to the other channel, you have identified the faulty valve.
 - 3c If the problem still persists, check the HT fuse, If blown, replace with same type of fuse.

4. Incidental noise, such as whistling or crackling on left or right channel.
 - 4a This problem is nearly always associated with a faulty valve. To identify which valve is causing the problem swap the valves individually from one channel to the other.
 - 4b If a valve is glowing bright red or has a milky appearance, replace the faulty valve with a new one of the same type. If you do not have a replacement output valve, remove the faulty valve and you may use the unit, as the amplifier will operate without its full complement of output valves. It is advisable to obtain a replacement as soon as possible.

5. Hum.
 - 5a Make sure that the wiring to the mains is sound and without fault.
 - 5b Mains hum is most probably due to an 'earth loop', It can be eliminated by making sure that the earth-to-mains supply comes from a single point (i.e. remove the earth from the pre-amplifier mains plug, but make sure that the earth to the power amplifier mains lead is positively connected).
 - 5c Hum can be caused by non-shielded interconnect leads. One solution is to use a standard shielded type of cable or connect a separate earth from the pre-amplifier to the power amplifier.

P 35 MK II SPECIFICATIONS

SPECIFICATIONS

■ Rated Power	35 watts min, RMS into 8 Ω
■ Peak Current	+6.5 Amps
■ Power Bandwidth	20Hz – 20kHz with less than 1% THD
■ Frequency Response	5HZ – 50kHz, +0dB, –1dB
■ Signal to Noise	better than 90dB ref. rated output
■ Input Sensitivity	775mV 680k Ω ref. rated output
■ Valves Used	2 x ECC81 drivers, 12 x EL84 output
■ Dimensions	W: 445mm H: 150mm D: 335mm
■ Weight	21kg including packaging

WARRANTY

- ★ The two year limited warranty covers parts and labour.
- ★ The warranty is transferable to subsequent owners.
- ★ The vacuum tubes are warranted for twelve months.
- ★ Burn-in testing and individual listening test for each unit prior to packaging and shipment.

NOTICE

As our policy is one of continuous improvement, all specifications may be subject to alteration without prior notice.

 **BEARD**

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