

AMP-BD Amplifier Board

Description:

The Repeater-Builder AMP-BD board is an easy way to build a simple amplifier from easily available Japanese manufactured power amplifier modules. It provides power supply filtering, series pass transistor for power set purposes, and an optional power set control potentiometer.

Installation:

Installation of the board and module is a fairly straight forward project. Choose a location that is flat and true so that the power module will have a good surface to conduct heat. Consider your individual mounting situation. If the surface is completely flat, you will need to use a piece of electrical tape or similar insulator to prevent the +12v pad feed-through from shorting out to the chassis.

Begin by mounting the board to the heatsink using a 4-40x1/4" screw through the mounting hole provided. This screw will also connect the ground plating of the board to the chassis. With the board mounted in position place the power module into position and mark the module's mounting slots. Similarly, place the pass transistor into position and mark its mounting hole. Drill and tap a 4-40 hole for the pass transistor. Drill and tap 6-32 holes for the power module.

Apply heatsink grease to both the module and pass transistor. Mount the module to the heatsink using 6-32x1/4" screws. Trim the leads of the pass transistor to the "slimming point". If you look carefully at the transistor and circuit board, you will see the correct place to trim the leads. Using an insulating washer, mount the pass transistor to the heatsink. It is important that the pass transistor be insulated from the ground of the heatsink.

Hookup:

Trim the leads of the power module and solder them to the pads of the circuit board. Solder the leads of the pass transistor to the circuit board. If you are not using an external power control signal, solder the power set potentiometer to the circuit board.

Attach the input and out put coaxes to their respective locations. There are conveniently located ground pads near to both the input and output pads for connection of a coax ground. Connect a source of power to the power input connection point and a source of ground to the ground connection point



