

MODULAR PATCH BAY SYSTEM

MODELS PB-48, PB-48D



FEATURES

- Full 48 patch points
- PB-48 modules accommodate 1/4" T-R-S phone jacks that may be used with balanced or unbalanced systems
- PB-48 modular construction and removable front panel makes customizing easy, even while unit is rack mounted
- PB-48D provides 1/4" T-R-S phone jacks in front and D-Sub connectors on rear panel
- Sturdy all steel, fully enclosed construction provides excellent shielding from noise sources
- Half-normal wiring is standard; may be defeated if desired with no soldering or cutting required
- Preprinted peel-and-stick labels for jacks
- All jack mounting hardware hidden by decorative front panel

DESCRIPTION

The PB-48 and PB-48D are professional Patch Bay Systems featuring a full 48 patch points. Each is housed in a sturdy, heavy gauge steel single rack space chassis. Each is built with high quality jacks that will provide many years of reliable service. Each unit may be easily customized to allow any vertical patch pair to be half-normalled, non-normalled, or multed.

An attractive front panel hides all but the tips of the jacks, and provides a blank white area for labeling each jack's connections. A set of labels pre-printed with frequently used notations is supplied with the unit.

NORMALLING

Each vertical jack pair of a PB-48 or PB-48D is supplied in the half-normal configuration. That is, the output of the equipment connected to the top jack of the front pair is "normally" connected

to the input of the equipment connected to bottom jack. The signal flow through the jacks on the front panel is such that inserting a plug in the top jack on the front does not break this normal connection, but provides a tap on its circuit (useful in branching circuits, to send a signal to two devices simultaneously). However, inserting a plug into the bottom jack does break the signal flow, allowing the insertion of a device (usually a signal processor) into the loop. (Since only one of the two jacks in a pair has the switching capability to break the normal connection, this configuration is called "half"-normal and is the most flexible and popular patch bay style.)

In some instances it is desirable to defeat the normalling. An example would be if a jack pair are connected to the input and output of an equalizer. If the normalling is not defeated, the input and output would be connected together when the equalizer is idle. This could cause oscillation, noise, and possible damage to the unit. It is easy to defeat or re-establish normalling on either the PB-48 or the PB-48D, though the methods are slightly different. Cutting or soldering is never required.

MODEL PB-48

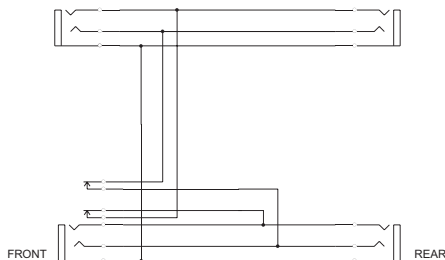
The PB-48 is Furman's standard patch bay, usable in almost any application. It features 1/4" TRS phone jacks in all positions, front and rear, with one switching jack in the lower front positions. TRS jacks have the advantage of being usable in either balanced or unbalanced systems. The PB-48 employs jacks with silver-plated phosphor bronze contacts, mounted on 24 circuit board modules, each of which encompasses the two front and two rear jacks of a vertical pair.

The PB-48's front panel can be easily removed, even when the unit is already mounted in a rack. The unit may be customized by removing the front panel, pulling out any module to be non-normalled, turning it end-for-end, and replacing it.

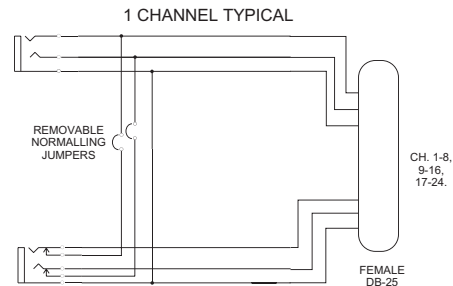
PB-48 rear view



PB-48D rear view



PB-48: TRS-to-TRS connectors front and rear



PB-48D: TRS connectors front to D-Sub connector rear

MODEL PB-48D

The PB-48D is Furman's top of the line patch bay. It features 1/4" TRS phone jacks in front for easy patching, and six 25-pin D-Sub connectors in the rear, per Tascam® DA-88 wiring standards. (D-Sub-to-D-Sub and D-Sub-to-phone adaptor cables are readily available from several sources.) The PB-48D uses jacks with highly reliable nickel-silver self-cleaning contacts, rated for a minimum life of over 10,000 insertions.

The PB-48D is configured with a single horizontal circuit board with "suitcase" jumper plugs for normalled or non-normalled configurations. Units are supplied with the plugs in the normalled position. To defeat the normalling on any pair, the plugs may be pulled out and repositioned through specially-provided access holes in the top of the chassis.

Architects and Engineers Specifications

The Patch Bay shall mount in a standard 19" rack, and shall occupy no more than one rack unit (1 3/4") of rack space. It shall provide 48 patch points in 24 vertical pairs, each of which is internally wired to rear panel connectors. A rear chassis securing the rear connectors, and a decorative front panel with labeling space for each jack, shall provide a sturdy, complete assembly. Each module shall be supplied in a half-normal configuration. It shall be possible to defeat normalling on any module without use of cutting or soldering tools.

The Patch Bay shall be available in two models. One shall provide 1/4" tip-ring-sleeve connectors in both front and rear; the other shall provide 1/4" tip-ring-sleeve jacks in front and 25-pin D-Sub connectors in rear.

The unit shall be the Furman PB-48 Patch Bay System.

Three Year Limited Warranty

The Furman Sound PB-48 and PB-48D are protected by a limited three-year warranty covering defects in materials and workmanship.



PATCH CORDS

Furman offers the following patch cords at highly advantageous prices for use in patch bay installation and in making patches.

- **Patch-T:** TRS-to-TRS, 30" length, set of 10
- **Patch-P:** Phone-to-phone, 30" length, set of 10
- **Patch-R:** RCA-to-RCA, 30" length, set of 10
- **Patch-PP:** Phone-to-phone, 72" length, set of 10
- **Patch-PR:** Phone-to-RCA, 72" length, set of 10
- **Patch-RR:** RCA-to-RCA, 72" length, set of 10