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Stereo Pedal Board

MODEL SPB-8 Instruction Sheet

SPB-8 Features

- The Pedal Board is a solid, nonslip base for up to 8 pedal effects that lets you leave everything powered up and patched together as you like it
- Pedal effects attach securely to a 12" x 25" Velcro pad
- Sturdy, roomy, padded travel case fits the Pedal Board plus attached effects, includes shoulder strap and zippered pouch
- Stereo effects return, effects loop, and amplifier outputs
- Eight individually protected 9VDC outlets, with 8 included power cords
- Three widely spaced 120VAC, 15A outlets allow enough room for "wall warts"
- ALL power and signal jacks are insulated and isolated, eliminating noisy ground loops
- Furman's quality spike and surge suppression and EMI/RFI filtering assures clean power
- Toroidal transformer for ultra low-noise performance
- Rugged construction will withstand years of on-stage use and abuse
- Extra-long 10-foot AC cord

Introduction

Congratulations on your purchase of the Furman SPB-8 — the first Pedal Board designed with the working guitar player, bassist, and keyboard player in mind. The SPB-8 is the most rugged, versatile, and useful board available anywhere. It features heavy duty construction that will handle the most forceful stomps you can offer, as well as stand up to the rigors of the road. The first stereo board on the market, it is also the first to feature the high level of power conditioning that Furman is famous for.

At the heart of the SPB-8 Stereo Pedal Board is a light yet rugged polycarbonate platform in combination with a steel chassis and an ample 12" x 24" Velcro sheet, ensuring secure, noiseless, flex free, nonslip performance for up to eight (or more, depending on power requirements) effects boxes and pedals.

The SPB-6's stereo patch bay contains seven 1/4" switching phone jacks and three non-switching jacks, connected in two stereo loops. This allows a single guitar or instrument input to feed multiple mono and stereo effects boxes, send and return from remote effects, and feed up to two amplifiers simultaneously. From modest to highly complex patching demands, the SPB-8 allows nearly unlimited setup flexibility.

Powering your pedals, amps and other gear, the SPB-8 offers two levels of surge and short circuit protection, as well as RF and EMI filtering. The SPB-8 is quiet, powering both AC and DC pedals without hum, due to the high quality toroidal transformer em-

ployed. Each DC output is rated at 100 mA, as well as being individually protected against shorts — guaranteeing that if one pedal goes out, the rest are still protected and will continue to function.

The SPB-8 makes pack-up simple and convenient. Unpatching several effects boxes and pedals is no longer required, since the large Velcro sheet and included mating strips firmly secures all of your pedals in place. A sturdy, padded case is included and comes with a handle, a detachable shoulder strap, and two zippered pouches for storing cables, wall warts, and AC cords.

Using the SPB-8

When fully set up, the SPB-8 will save you many hours of plugging, unplugging, packing, and unpacking pedals and effects. However, to fully realize the simplification it offers, you must do some planning and preparation.

- 1. Prepare Pedals: Most pedal effects have rubber feet on their bottoms. These must first be removed to allow them to be attached to the SPB-8. Some may be attached with screws; others may be stick-on types that must be pried off. Once the rubber feet are off, they should be replaced with the adhesive-backed Velcro supplied with the SPB-8. Cut suitably-sized pieces with a pair of scissors, peel off the protective backing to expose the adhesive, and stick them to the bottoms of your pedal effects. If you wish to reposition your pedals, several smaller pieces of Velcro may allow easier removal than one large piece, though the larger the area you cover, the more firmly the pedal will be attached.
- 2. Create a layout: Lay out your pedal effects in the desired order, giving thought to such issues as keeping signal levels high to minimize hum and noise, and ease of access to all foot switches. The Velcro system of attachment allows pedals to be repositioned if necessary. Individual pedals should be connected in a signal chain using short patch cords (not supplied). The input to the first pedal should be patched to the To Pedal (Input) jack on the SPB-8; the output of the last pedal should be patched to either of the From Pedals jacks (both should be used if the pedal has a stereo output). See the next section for more on the SPB-8's patching capabilities.
- **3. Provide Power:** The SPB-8 can power almost any pedal made, using one of its four power options. Three of these provide 9 VDC power, and the fourth is 120 VAC "wall" power.
- 9 VDC Power is typically used in pedals that can run off batteries, or off battery eliminators. The SPB-8 provides eight 9 VDC power outlets, all of which use 3.5 mm "miniplug" connectors on the pedal board end. On the pedals themselves, several connec-

tor types may be used, the most common of which is called "P205L" or "DC connector". This may easily be recognized as a 5 mm round hole (often in a block of black plastic insulating material), with a single metal pin in the center. Eight miniplug-to-DC cables are provided with the SPB-8. Some 9V pedals use a miniplug connector instead of a DC connector. One miniplug-to-miniplug cable is provided with the SPB-8 for such pedals. Finally, a few pedals have no provision for any form of power other than batteries. Should you encounter one of these, one miniplug-to-battery-clip cable is also provided. To use it, simply remove the battery and connect the pedal's battery clip to the one on the cable.

Each of the SPB-8's DC power outputs is individually fused and protected against shorts, so pedals can plugged in without risk even while the pedal board is powered up. Each output can supply up to 100 mA, which should be adequate for virtually any pedal. Because the SPB-8 is protected by Furman's famous power conditioning capability, your valuable pedals will be protected from damage from spikes and surges.

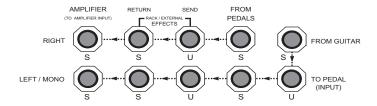
120 VAC Power may be needed for a few pedals. Three grounded, 15A outlets are provided. These may also be used for non-pedal effects, such as those mounted in racks.

To keep the power cables neat and tidy, they may be coiled to take up excess length and bundled with each other, using plastic cable ties or even grocery-store twist ties.

4. Packing up: Once all pedals have been positioned, linked in a signal chain, and powered, the SPB-8 is ready for use on stage. After use, the entire unit *with pedals and all cabling attached* may be slipped into its padded Cordura case and transported. An internal strap holds the pedal board in place. The case has both a handle and a detachable shoulder strap for easy carrying. There are also two internal zippered pouches for cables and other accessory items.

Sample Hookups

The SPB-8 offers very flexible patching options that will allow easy connection of mono and/or stereo pedal effects, rack effects, and instruments and amps. Several examples are presented here to illustrate its capabilities. To understand the patch bay, consider the "normal" signal flow through it, indicated by the dotted lines with arrows showing direction:

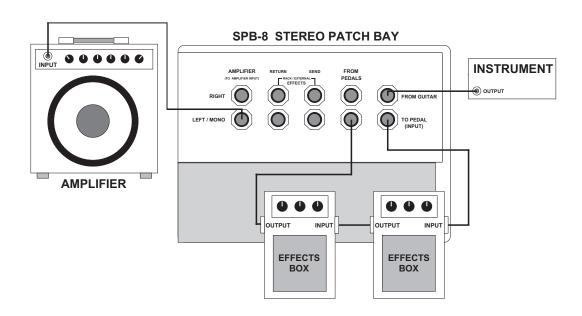


Note that there are two channels, **Left/Mono** and **Right**. If nothing is plugged into the switching jacks (marked "S"), signal will flow unimpeded from the first jack (**From Guitar**, for Left/Mono, or **From Pedals**, for Right) to the last jack (**Amplifier**, for both Left/Mono and Right) in each channel. Each of the three jacks marked "U" is unswitched and may be used to take a "tap" off the signal path without breaking it, provided the jack to its immediate left is unused.

All hookups begin by connecting the guitar or other instrument into the **From Guitar** jack, and the input to the first pedal in the pedal chain to the **To Pedal (Input)** jack. From there, the exact hookup used depends on whether the pedals have mono or stereo outputs, whether rack effects as well as pedals are used, and whether one or two amps are used.

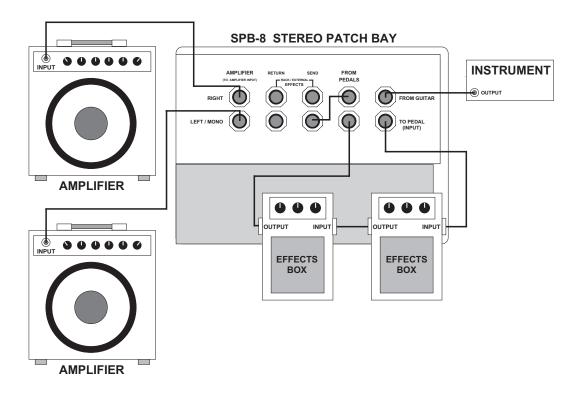
Example 1: Mono Pedals, Single Amp

In this example, two pedals are linked together with a short cable going from the output of the first to the input of the second. Since there is only one amp, only the Left/Mono channel is used.



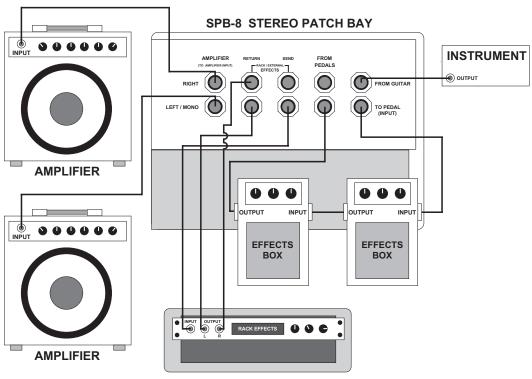
Example 2: Mono Pedals, Two Amps

This example is similar to the first except there are two amps. Both the **Left/Mono** and **Right** channels are used, and receive identical signals to send to their respective amps. The feed to the **Right** channel is split off from the Left/Mono signal path using the **Left/Mono Rack Effects Send** jack, because plugging in to either of the **Send** jacks allows a "tap" to be taken without breaking the corresponding signal path.



Example 3: Mono Pedals, Stereo Rack Effects, Two Amps

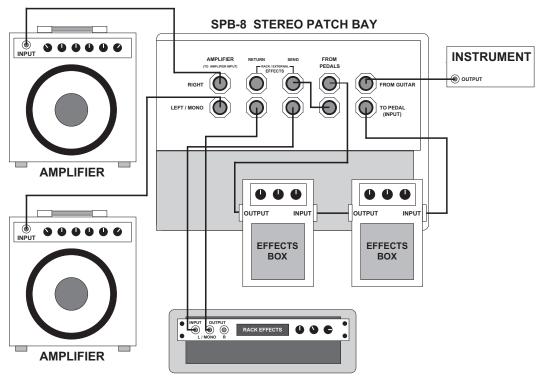
This example is similar to the previous one except a rack effect is added which has one input and two (stereo) outputs. Again, both channels are used, but the left/right split is generated by the stereo rack effect.



REMOTE STEREO EFFECTS

Example 4: Mono Pedals, Mono Rack Effects, Two Amps

In this example, both the pedals and the rack effect are mono, so the left/right split to feed the two amps is accomplished similarly to Example 2, in which a **Rack Effects Send** jack was used to tap off a copy of the signal. Note that in this case the pedal chain's output is plugged to the Right channel, so it is the **Right Rack Effects Send** that is the splitting element. Because the jumper cable from the **Right Rack Effects Send** is plugged into the **Left From Pedals** jack, the "normal" signal path through the left channel is broken and replaced with the signal from the right channel. Also, note that while the pedal effects are heard in both channels, the rack effects would only be heard in the left channel.



REMOTE MONO EFFECTS

A Note On The Current Requirements Of Pedal Effects

Each of the SPB-8's 9VDC outlets has a maximum current rating of 100 mA, yet certain pedals state power requirements of 200 mA or more. Most of the time, these specifications are more indicative of a desired level of regulation from a wall wart than an actual *constant current* requirement. Typically, the actual current draw is no more than 50 mA, so the SPB-8's supply will in fact be more than adequate. To confirm this, try it! There is no harm in trying an 9VDC outlet of the SPB-8 on *any* pedal or box. If the constant current draw actually exceeds 100 mA, the PTC (solid state fuse) will shut off, without damage, until the excessive load is removed. If this occurs, simply unplug the device and use one of the SPB-8's AC outlets with an appropriate wall wart supply. To further illustrate this point,consider this: If a battery-powered device were actually to draw 300 mA continuously at 9VCD, it would consume a new alkaline battery every *six minutes*.

Three Year Limited Warranty

The Furman SPB-8 Stereo Pedal Board is warranted against failures due to defective parts or faulty workmanship for a period of three years after delivery to the original owner. During this period, Furman will make any necessary repairs without charge for parts or labor. Shipping charges to the factory or repair station must be prepaid by the owner. This warranty applies only to the original owner and is not transferable. Also, it does not apply to repairs done other than by the Furman factory or Authorized Repair Stations.

This warranty may be cancelled by Furman at its sole discretion if the unit has been subjected to physical abuse (including, but not limited to, connection to improper AC or DC voltages), or has been modified in any way without written authorization from Furman. Furman's liability under this warranty is limited to repair or replacement of the defective unit.

Furman will not be responsible for incidental or consequential damages resulting from the use or misuse of its products. Some states do not allow the exclusion of incidental or consequential damages, so this limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Warranty claims should be accompanied by a copy of the original purchase invoice showing the purchase date (if a Warranty Registration Card was mailed in at the time of purchase, this is not necessary). Before returning any equipment for repair, please be sure that it is adequately packed and cushioned against damage in shipment, and that it is insured. Please enclose a note giving your name, address, phone number and a description of the problem.

Service: All equipment being returned for repair must have a Return Authorization (RA) Number. To get an RA Number, please call the Furman Service Department, (707) 763-1010 ext. 40, between 8 a.m. and 5 p.m. U.S. Pacific Time, or fax to (707) 763-1310. Please display your RA Number prominently on the front of the package.