**LIMITED WARRANTY**

**INSTALLATION BY QUALIFIED PROFESSIONAL REPAIRMAN IS STRONGLY RECOMMENDED. FISHMAN TRANSUDERS WILL NOT BE RESPONSIBLE FOR ANY DAMAGES THAT MAY RESULT FROM IMPROPER INSTALLATION.**

The Fishman Powerbridge™ Pickup is warranted to function for a period of One (1) Year from the date of purchase. If the unit fails to function properly within the warranty period, repair or replacement at the discretion of Fishman’s technicians will determine whether the item is covered. 

**RETURN POLICY**

To return products to FISHMAN TRANSUDERS, you must follow these steps...

1. Call FISHMAN TRANSUDERS at 978-988-9199 for a Return Authorization Number ("RAN").
2. Enclose a copy of the original Bill of Sale as evidence of the date of purchase, with the product in its original packaging and a protective carrier or box.
3. FISHMAN TRANSUDERS technicians will determine whether the item is covered by warranty or if it instead has been damaged by improper customer installation or other causes not related to defects in material or workmanship.
4. Warranty repairs or replacements will be sent automatically free of charge.

**FISHMAN POWERBRIDGE™ PICKUP INSTALLATION GUIDE**

**Parts List**

- Powerbridge™ Pickup
- Pickup Mounting Screws
- Screws
- Ring Tip
- Shielding foil
- Shielding resistor
- Shielding sleeve
- Shielding 

**Important!**

Please read these instructions carefully. For technical assistance, contact Fishman Customer Support at 978-988-9665 or tech@fishman.com

**Basic Passive Setup**

**Stereo Outputs**

The simplest way to get the Powerbridge™ Pickup up and running is to simply wire it and the magnetic pickups to Tip/Ring outputs of the supplied stereo jack. A stereo "Y" cable or a standard stereo cable can then carry the two signals. From there, all mixing and blending functions will be performed offboard the instrument. A Fishman Powerbridge™ Pedal is especially suited for offboard blending/mixing with this passive setup.

For a passive setup, you don’t want to tie the Powerbridge™ and magnetic pickup wires together at the guitar’s mono output jack. This may seem like a good idea, but it won’t work. If you connect the piezo and magnetic outputs, you will experience a loss of tone and a very bizarre and un-musical interaction between the Powerbridge™ and the magnetic pickups.

**Without a Fishman Powerchip™:**

- **A standard mono instrument cable used**
- **3 - Mono Instrument Cable**
- **1 - Stereo "Y" Cable**
- **2 - Stereo Instrument Cable**
- **3 - Mono Instrument Cable**
- **Stereo Outputs**
- **Powerchip™.**

"Inductors" and piezos are "capacitive" devices. The solution is to electronically isolate or "buffer" the two signals with an active mixing circuit like the Fishman Powerchip™.

**With a Fishman Powerchip™:**

- A standard mono instrument cable used with a Fishman Powerchip™ will provide a combined Powerbridge™/magnetic pickup signal.

**- Basic Passive Setup**

**- Stereo Jack (included)**

A 1/4" stereo output jack is provided with your Powerbridge™ Pickup. It is an essential component to the Powerbridge™ System. It can send piezo and magnetic pickup signals to separate amplifiers. The magnetic pickups are wired to Tip, and the Powerbridge™ Pickup is wired to Ring.

**- Instrument Cable (not included)**

Depending on how you want to set up your Powerbridge™ system, you can use one of the following three instrument cables (available from your Fishman dealer).

1. **1 - Stereo "Y" Cable**
   - This will split the Powerbridge™ and magnetic pickup signals and send them to separate amplifiers or other destinations (PA, recording devices, etc.).
2. **2 - Stereo Instrument Cable**
   - Both magnetic and piezo pickup signals can be sent through a single stereo instrument cable to one of our outboard Powertrons™ preamps. From there, magnetic and piezo signals can be either combined to a single mono output or split to separate stereo outputs.

**NOTE:** For best results, use a "2 Pair" premium stereo cable (available through your Fishman dealer) with separate shielding for both the Powerbridge™ and magnetic signals.

**- Mono Instrument Cable**

- **Stereo Output Jack (Tip/Ring/Sleeve)**
- **Optional Passive Volume Pot**
- **Mono Instrument Cable**
- **Stereo Instrument Cable to Stereo Input**
**Bridge Installation**

- **Strat® Style Guitars**
The VMV Powerbridge™ is a direct replacement for Fender® Stratocasters® with a 2.22” (E to E, center to center) pivot screw spacing. Note that some non-USA Strats® have a smaller pivot screw spacing and will require plugging and re-drilling these holes to "vintage" Fender® specifications. See Fig 1

- **Instrument Builders**
Enclosed the drilling template to locate the six (6) pivot screw holes.

**Active Setup**

- **Active Setup - Powerchip™**
With our onboard Powerchip™, you can mix and combine both the Powerbridge™ and magnetic pickups (on the guitar) and plug right into a single channel guitar amplifier. You will need a special 9 Pin Switching Jack (Fishman Part Number ACC-PBR-9PJ), available through your Fishman dealer.

See the Powerbridge™ System Users Guide for Powertronics™ descriptions.

**Passive Setup**

- **Powerchip™ Active Setup - Powerchip™ stereo “Y” cable.**
- **Instrument Builders**
Enclosed the drilling template to locate the six (6) pivot screw holes.

**Routing the Powerbridge™ Pickup Wire**

- **With a 3/32” (2.4 mm) aircraft bit, drill a hole from the vibrato cavity to the control cavity.**
- **With a 3/32” (2.4 mm) aircraft bit, drill a hole from the vibrato cavity to the control cavity.**
- **Route the Powerbridge™ Pickup wire through this hole. See Fig 2**
- **If you prefer, you may route the Powerbridge™ Pickup wire through the guitar’s ground wire channel. If you do so, secure the Powerbridge™ Pickup wire so that it cannot be pinched by the springs or the bridge block.**

**Wiring Instructions**

- **Install the Stereo Jack**
The jack can fit into the jack cavity without removing wood…
1. Bend the terminals of the installed stereo jack toward its center. See Fig 3
2. Rotate the jack to locate the Tip terminal exactly at the upper left side of the jack plate recess. See Fig 4

**Wiring Options**
There are several different ways to wire the Powerbridge™. Choose the option that best suits your needs.

**Powerbridge™ & Magnetic Pickups wired directly to a Stereo Jack**

1. Connect the Powerbridge™ signal wire directly to the Ring terminal on the supplied stereo jack.
2. Connect the Powerbridge™ and magnetic grounds to the Sleeve terminal.
3. Connect the magnetic signal wire to the Tip terminal.
4. Connect the included 5 MΩ resistor between the ring and sleeve terminals.

**Passive Volume for the Powerbridge™**
This circuit is easily assembled from "stock" guitar parts and components available at any electronics parts retailer.

You will need:
- 250 k audio taper pot
- 33kΩ resistor
- 820 pF capacitor
- 1500 pF capacitor

This network will attenuate the Powerbridge™ so that it better matches levels between magnetic and piezo pickups. You can expect a 14 dB (nominal) decrease in Powerbridge™ output with this circuit.

**NOTE:** Optional 3-Way Selector Switch - If desired, a single pole, double throw (spdt) 3-way switch can also be added for piezo/magnetic pickup selection. Use a switch with an ON-OFF-ON orientation (no, this is not a misprint)

**NOTE:** Active Onboard Blending
A Fishman Powerchip™ (not included) must be installed if you wish to blend/mix piezo and magnetic signals onboard the instrument.

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