

OriPure PHZ-5

OriPure Alnico 5 Humbucker Bridge Pickup PHZ-5 Instruction Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your OriPure Alnico 5 Humbucker Bridge Pickup, Model PHZ-5. Please read this guide thoroughly before proceeding with installation to ensure proper function and longevity of your product.

PRODUCT OVERVIEW

The OriPure Alnico 5 Humbucker Bridge Pickup is designed to deliver a bright, sharp, warm, and crisp sound, ideal for blues and jazz styles. It features Alnico 5 magnets, 6 non-adjustable slug pole pieces, and 6 adjustable screw pole pieces. The pickup is vacuum wax potted and sealed to effectively eliminate unwanted noise.



Figure 1: OriPure Alnico 5 Humbucker Bridge Pickup, showing the pickup, packaging, mounting screws, and springs.

Key Features:

- **Sound Profile:** Bright, sharp, warm, and crisp, suitable for blues and jazz.
- **Magnet Type:** Alnico 5.
- **Pole Pieces:** 6 non-adjustable slug pole pieces and 6 adjustable screw pole pieces.
- **Noise Reduction:** Vacuum wax potted and sealed.
- **Output:** 4-conductor wiring for versatile coil-splitting options.
- **Included:** Mounting screws and springs.

SETUP AND INSTALLATION

Installing a guitar pickup requires basic soldering skills and familiarity with guitar electronics. If you are unsure, it is recommended to seek assistance from a qualified guitar technician.

Tools Required:

- Soldering iron and solder
- Wire cutters/strippers

- Screwdrivers (Phillips and flathead)
- Multimeter (optional, for checking connections)
- Masking tape (for securing wires)

Installation Steps:

1. **Prepare the Guitar:** Loosen and remove the guitar strings. Remove the existing pickup from the bridge position. Carefully desolder the old pickup's wires from the control cavity.
2. **Mount the Pickup:** Place the OriPure Humbucker into the bridge pickup cavity. Use the provided screws and springs to secure it. Adjust the height to your preference; a good starting point is approximately 2-3mm from the strings when fretted at the last fret.



Figure 2: Front view of the OriPure Alnico 5 Humbucker Bridge Pickup, showing the pole pieces.

3. **Wiring Connections:** The OriPure Humbucker features 4-conductor wiring, allowing for various wiring options such as series (standard humbucker), parallel, or coil-splitting.

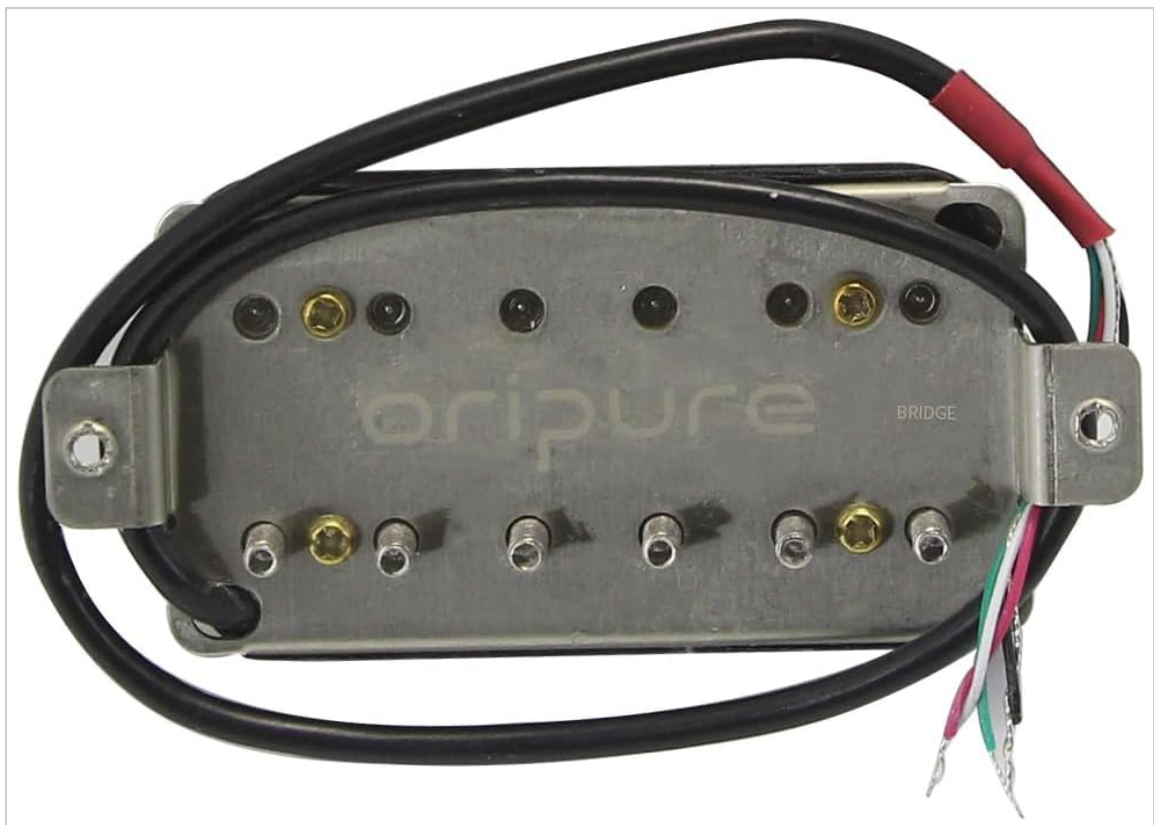


Figure 3: Back view of the OriPure Alnico 5 Humbucker Bridge Pickup, illustrating the 4-conductor wiring.

Standard Humbucker Wiring (Series):

- **Hot (Signal):** Solder the main hot wire (typically red or black, depending on manufacturer's color code) to the appropriate lug on your guitar's selector switch or volume pot.
- **Ground:** Solder the main ground wire (typically bare or green) to the back of a volume or tone pot, ensuring a solid ground connection.
- **Coil Split Wires:** The remaining two wires (e.g., white and black, or white and green) are typically soldered together and insulated, or connected to a switch for coil-splitting functionality. For standard series humbucking, connect them and insulate.

Note: Always refer to a specific wiring diagram for your guitar model and desired configuration. Common color codes vary between manufacturers.

4. **Test Connections:** Before reassembling, temporarily string the guitar and test the pickup's functionality. Ensure there is no hum or signal loss.
5. **Reassemble:** Once confirmed, reassemble the guitar, re-string, and perform final adjustments.

OPERATING THE PICKUP

The OriPure Alnico 5 Humbucker is a passive pickup, meaning its operation is directly tied to your guitar's electronics and your playing style. Once installed, the pickup converts string vibrations into an electrical signal, which is then shaped by your guitar's volume and tone controls, and amplified.

Tone Characteristics:

- **Bridge Position:** Provides a brighter, more articulate tone compared to neck pickups, often used for lead playing and rhythm with more attack.
- **Alnico 5 Magnets:** Known for a balanced, punchy tone with good output and clear highs.
- **Humbucking Design:** Reduces hum and noise, providing a clearer signal.
- **4-Conductor Wiring:** Allows for coil-splitting, which can produce a single-coil-like tone (brighter,

lower output) when activated via a push/pull pot or switch.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your pickup.

- **Cleaning:** Gently wipe the pickup cover and pole pieces with a soft, dry cloth to remove dust and grime. Avoid using abrasive cleaners or solvents.
- **Check Connections:** Periodically inspect the soldered connections in the control cavity for any signs of corrosion or loosening. Re-solder if necessary.
- **Pole Piece Adjustment:** The adjustable screw pole pieces can be raised or lowered to fine-tune the string balance and output. Make small adjustments and test the sound.
- **Avoid Strong Magnetic Fields:** Keep the pickup away from strong magnetic sources when not installed, as this can affect its magnetic properties over time.

TROUBLESHOOTING

If you encounter issues with your pickup, consider the following common problems and solutions:

Problem	Possible Cause	Solution
No Sound	Loose or broken wire connection; faulty pot or switch.	Check all soldered connections. Use a multimeter to test continuity. Inspect pots and switches.
Weak Output	Incorrect pickup height; wiring issue (e.g., coil-split engaged unintentionally).	Adjust pickup height closer to strings. Verify wiring configuration.
Excessive Hum/Noise	Poor grounding; unshielded cavity; external interference.	Ensure all ground connections are solid. Consider shielding the guitar cavity. Check for nearby electronic devices causing interference.
Inconsistent Sound	Loose components; cold solder joint.	Inspect all components and connections for stability. Re-solder any suspicious joints.

SPECIFICATIONS

The following specifications apply to the OriPure Alnico 5 Humbucker Bridge Pickup (Model PHZ-5):

- **Model:** PHZ-5
- **Position:** Bridge
- **Magnet:** Alnico 5
- **DC Resistance:** 8-9k Ω (Note: Actual resistance may vary slightly due to ambient temperature, up to 500 Ω deviation.)
- **Pole Spacing:** 52mm
- **Base Material:** Copper-nickel alloy
- **Output Wiring:** PVC wirings, 4-conductor (can be switched to single coil)
- **Color:** Black
- **Dimensions (L x W x H):** Approximately 3.54 x 1.5 x 0.98 inches (90 x 38 x 25 mm)

- **Included Components:** Pickup, mounting screws, springs
- **Noise Reduction:** Vacuum wax potted and sealed

Note: All parameters are for reference. Actual performance may vary slightly depending on the guitar, amplifier, and related equipment.

WARRANTY AND SUPPORT

For warranty information or technical support regarding your OriPure Alnico 5 Humbucker Bridge Pickup, please contact the seller or retailer from whom you purchased the product. Ensure you retain your proof of purchase for any warranty claims.

For general inquiries or further assistance, you may visit the official OriPure store on Amazon: [OriPure Store](#)