



HINES INDUSTRIES, INC.

793 AIRPORT BLVD. ■ ANN ARBOR, MICHIGAN 48108-3372 ■ PHONE: (734) 769-2300 ■ FAX: (734) 996-9192

Pickup Replacement

Introduction

The pickup sends the unbalance signal to the computer. If the pickup is not sending a signal, usually the pickup is bad or the pickup pin is bent or broken, in which case the pickup must be replaced.

Tools and Materials

Pickup (see parts list)
Feeler gauge (.030" or 0.8 mm)
standard SAE hex wrenches
standard SAE wrenches
soldering iron
electronics solder

Procedure (see diagram below)

1. Disconnect the power to the machine.
 2. Remove the Stanchion Skirt covering the pickup to be replaced.
 3. Locate the pickup.
 4. An adjusting bolt is mounted in a bracket attached to the upper portion of the stanchion. Loosen the locknut for this bolt.
 5. Back the adjusting bolt off ¼" (turn counterclockwise)
 6. Write down which color wire is connected to which terminal (for example, black to "-", white to "+").
 7. Using the soldering iron, disconnect the wires from the terminal pins on the pickup.
 8. Remove one of the bolts that secures the aluminum Pickup Block to the Stanchion, and loosen the other bolt. This will allow you to turn the Pickup block so that the set screw on top can be accessed.
 9. Loosen the set screw which holds the pickup in the Pickup Block.
 10. Hold the pickup by its housing and remove it from the mount. Do not pull on the pickup pin.
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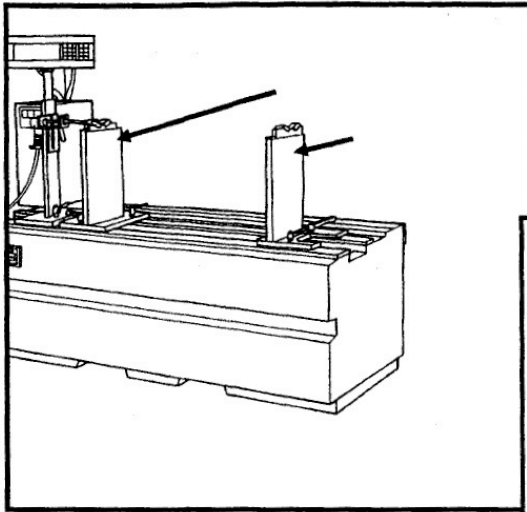
11. Insert the new pickup into the mount with the same orientation as the original.
12. Secure the pickup by tightening the set screw.
13. Align the Pickup Block with the side of the stanchion and secure it to the stanchion.
14. Before reconnecting the wires, make sure the insulation pad is in place around the terminals of the pickup. Then using the wiring diagram you wrote down, solder each wire to the proper terminal on the pickup.
15. Carefully reinstall the adjusting bold and its locknut. Leave the end of the screw one quarter inch (6 mm) from the pickup pin, and perform the procedure called **PICKUP GAP ADJUSTMENT**.

DONE

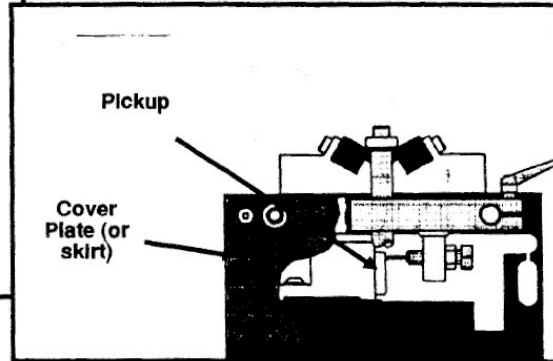


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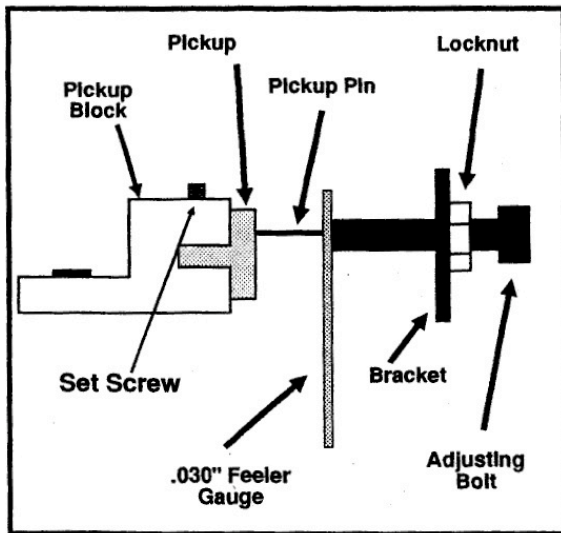
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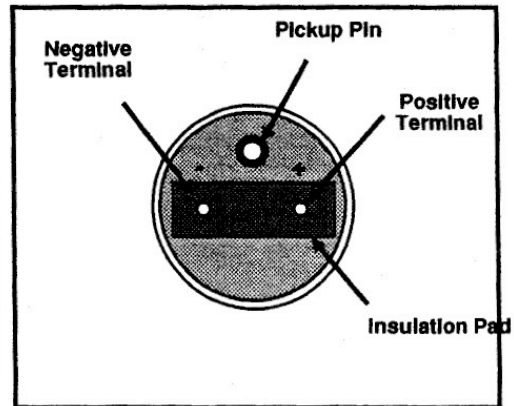
Location of Pickups in Typical HC Machine



Cut-away of Stanchion Showing Pickup



Graphic of Pickup Gap Adjustment



Front View of Pickup