

Guide to installing KINMAN[®] Hx pickups to your Tele*

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Included in this package should be 3pcs 6-32 UNC Pan head screws for bridge pickup and/or and 2 pcs 4 x 40 UNC pan head screws for neck pickup and 5 pcs of silicone rubber tube for springing the pickups, 1 shielded output wire.

- WARNINGS:**
- > The **metallized cover** on the neck pickup is plastic and therefore vulnerable to damage from screwdrivers in adjusting certain truss rods.
 - > After reading these instructions you may prefer to engage the services of a competent guitar technician.
 - > Accidental damage is not covered under warranty.
 - > Do not tap the magnets hard with anything big made of steel as this can alter their precisely adjusted strengths. Magnet degaussing can also occur if left too close to high energy A-C magnetic fields such as amps, speakers, transformers, electric motors, lighting ballasts etc.
 - > Magnets corrupt Data so keep well away from computer discs, smart cards, audio/video tapes & magnetic data-recording devices.
 - > **Solutions to problems** can be found at <http://www.kinman.com> >Customer Service >Support >Faults & Solutions

INSTALLER: Please give this to, and ask the customer to read sections 3 and 10.

These products are Lead Free, however Lead solder may be used on the tips of the cables to connect to existing wiring.

Comprehensive install and setup information can be viewed on www.kinman.com >Tech Support >(Install Guides / Adjust & Setup / Faults & Solutions)

1) Remove the strings completely and then remove the control panel screws. Lift the control panel off the guitar and place face down into the cavity. Note the various connections and de-solder the wires leading from the pickups that will be replaced. Remove the bridge completely if replacing that pickup and then remove the pickups. (Please de-solder the old wires as cutting them may cause problems).

2) For maximum quietness, the wiring and output socket cavities should be effectively shielded with a conductive shielding medium such as copper foil (some modern guitars are already shielded). The shielding must be linked to ground by a wire to the casing of the volume pot. You may however, be satisfied with the noise levels without shielding because when you contact the strings your body becomes a shield, BUT when you let go of the strings some noise happens. Details on www.kinman.com >Tone Workshop

3) Carefully mount your new KINMAN Hx Tele* **Bridge pickup** taking care not to cross the threads of the three 6-32 UNC screws in the base plate holes (the screws are deliberately tight to prevent them vibrating loose). Use only the silicon rubber tube provided instead of springs as these will provide a measure of immunity against microphonic feedback. NOTE: The 3 mount screws provide the ground link to the bridge and strings. **Avoid crushing the 2 strips of black tape over the coil wires on the top-side of the baseplate, near the cable termination point.**

4) Your Tele* **neck pickup** may be mounted onto the wood with the original long wood screws using only the rubber tube provided (don't use foam under the pickup) **-or-** mounted from the pickguard by the small fine 4-40 UNC metal thread screws and the rubber tubes (springs) provided.

The mounting screw hole positions and size of some Mexican & Korean pickup do not match the USA standard to which Kinman's are made. We suggest you order a replacement pickguard and mount the pickup from it.

5) Referring to the wirogram over the page, solder the red end of the pickup wires to the correct switch terminals.

It is not necessary to change the existing wiring layout of pots and switch to duplicate the typical wirogram on reverse side of this page. You can simply exchange the pickups by disconnecting the existing pickup connections and re-establish the same connections for the new pickups.

Soldering tip. Use a 40 or 60watt soldering tool with a chisel tip, not a pointed tip. The cable solder points are not pre-soldered so you can use Lead or Lead Free solder. Too much heat or prolonged contact will lead to dry joints and melt the insulation of the wires, but if not enough heat the solder won't flow nicely. Hold the chisel tip against the solder point and if required flow the solder onto that point, then place the wire quickly into the puddle of solder and withdraw the iron. Hold the wire in place while the solder cools. Ensure it retains a wet/glossy look after cooling.

If the switch is a Japanese DM-50 or other low quality type, replace it with an Oak-Grisby or Fender USA switch that is much quieter, more robust and reliable. These can be ordered from your dealer.

Picked and packed by:

6) **Solder only the tip** of the cable shield-ground-point to the back of the volume control so the cable to the switch is not taut. Do not allow excess heat to melt the Red inner of the cable. Refer >Support >Soldering Tips.

7) Replace the existing wires leading to the output socket with the shielded cable provided. Ensure the red wire goes to the hot terminal of the socket *and* the middle terminal of the volume pot. Wrong connections will cause terrible noise when you touch the strings.

8) Solder the shielding wire (if applicable) from the body shielding to the Volume pot cover and replace the control panel taking care not to cross the screw threads in the body wood or over-tighten the screws and strip the wood. Tune the strings and adjust your new pickups as follows.

9) **IMPORTANT:** Pickup adjustment is crucial for tone. For maximum output adjust the neck pickup so that both outside magnets have no less than a 2mm (5/64") gap between the poles and the strings with the 12th fret closed. For the bridge pickup there can be similarly a 1.5mm (1/16") gap. This is dependent on the set-up of the guitar being OK so check that first. Some players prefer a large gap and set the pickups slightly above the pickguard for low output. Hx pickups are more sensitive to this adjustment and consequently more flexible in tonal range. **Experiment!** Try different settings to see what you prefer. Start low and adjust up until you find your sweet spot. It may take some time to finalize your adjustment but the results will be very gratifying. Also refer to www.kinman.com Customer Service >Support

10) For **3 pickup Teles** with a Strat middle pickup use a **AVn-62 or AVn-59 (narrow magnet spread, neck position)** pickups with the long cables.

11) If you mix a Hx Series pickup with other pickups, the in-between setting (position 2) on the 3 position switch may be out-of-phase and sound not very pleasing. Reversing the connections of a Hx or normal single coil can result in excessive noise. It's best to fit Hx Tele* pickups in a set or order a special reverse phase pickup.

12) To remove the Metallised cover simply grab it at the ends and carefully pull off at one end until the 'clip' pops off; do not 'skew' the cover excessively.

For repair please contact :-

Kinman Guitar Electrix

<http://www.kinman.com> •Contact Us

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