

How to fit the 'Kinman' NoSoldering Harness with specially made Volume pot  
(guaranteed to maximize sonic performance)

2<sup>nd</sup> July 2004 Rev-5

**This is solely for Kinman customers.**

**Confidential!**

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or give the URL to others.**

**NOTE-1:** The lower Tone pot is the EMG SPC device. The Middle pot is the EMG EXG device. An Alkaline 9 volt battery is required.

**NOTE-2:** The **volume pot** has a bypass filter fitted (see bottom photo). If you feel the sound is too bright when the volume is rolled down the filter can be disconnected simply by cutting or de-soldering the wires that connect from the series Cap/Resistor to the pot terminals.

**NOTE-3:** The knobs should be an easy slide fit on the Pot shafts. Open the split shaft with **extreme care** only if the knob is loose. If excessive force is used one half of the split shaft will break off. Also if the knob fits too tightly it will damage the pot internally when pulling the knob off.

#### **Tools needed:**

- Smallish/Medium X head screwdriver to remove and replace the pickguard mounting screws.
- Small blade screwdriver to tighten the terminal block connections.
- **USA Models:** ½" (13mm) tube spanner (nut driver) to remove and replace the pots and jack socket.
- **Non USA models:** In addition to above you will need an 11mm tube spanner (or other nut driver) to remove the original pots. The Volume pot holes in the pickguard may have to be enlarged for the Kinman pots by using a round file or tapered reamer; Do not enlarge the remaining pot holes.  
**CAUTION:** do not drill as it is dangerous to enlarge existing holes using a power drill because the drill will bite into the plastic and spin the pickguard likely resulting in personal injury.

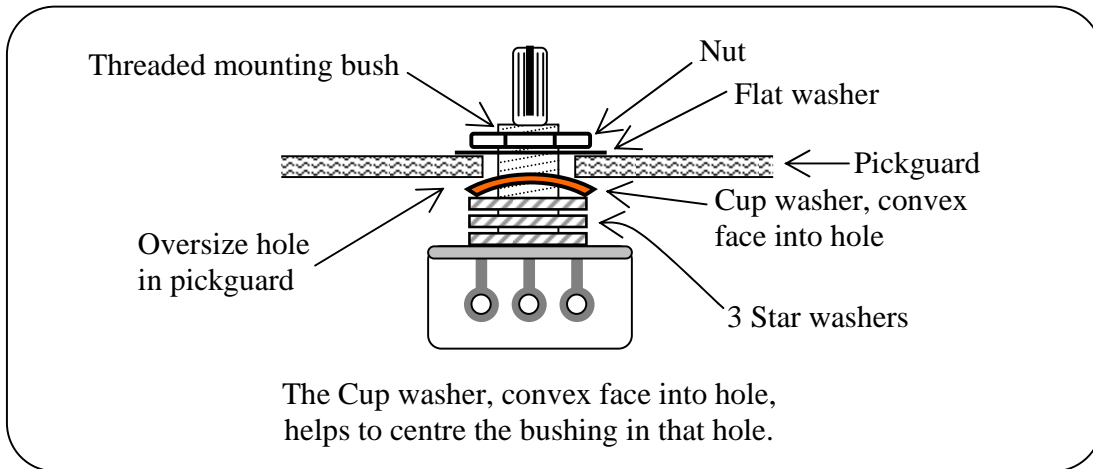
- 1) Remove the strings and then the pickguard.. Place the pickguard upside down adjacent to the guitar but at it's side, close enough for the output socket cable to easily reach the volume pot.
- 2) Break the ground wire (coming from the spring claw at the rear of the guitar -or- from the central ground point, as the case may be) away from the casing of the volume pot by working the wires around and around at the solder point until it breaks. Then strip the insulation back about 1/4" (6mm) so it's ready to insert into one of the screw terminal mounted on the casing of the NEW volume pot.
- 3) Remove the original pickups and controls.
- 4) Optional: Break the output socket off the end of it's wires by working the wires around and around at the solder points until they break. Also remove the Output socket from the recessed steel plate.

#### **You should now be ready for the install.**

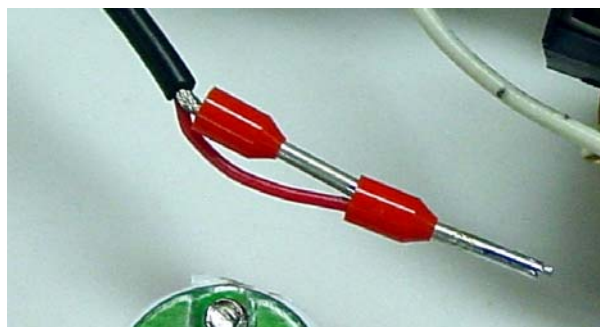
- 5) Unpack and remove the replacement pickups and wiring harness from the shipping plate.
- 6) Mount the pickup to the pickguard and then fit all the controls into the holes and spaces in the pickguard left by the original parts (including the output socket on it's plate, it's Star washer is in the little packet of auxiliary parts)
- 7) If the pot holes are oversize then fit the special cupped washer (convex face to the hole as shown in the diagram) and 3 star washers to the pots. The special cup washer ensures the pot mounting bush is centred and remains centred in the pickguard hole.

**More**



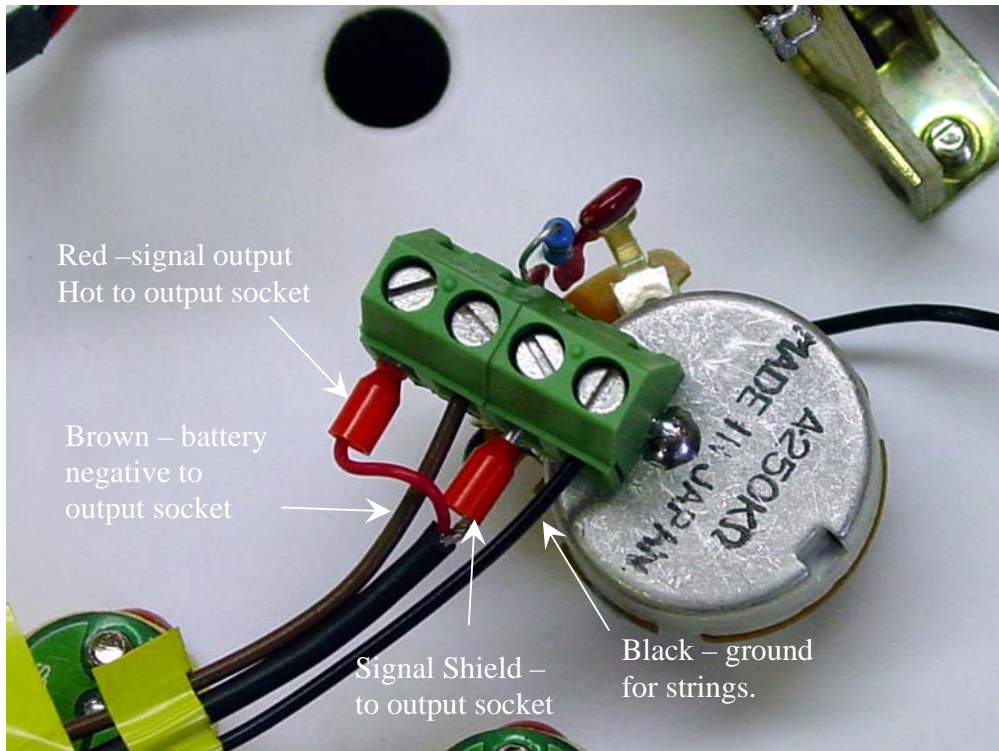


- 8) Ensure the bush is aligned in the centre of the hole and hold in position as the nut is fitted and tightened. If the hole in the pickguard is the correct size replace the cupped washers with the spare Star washers provided (ending up with 4 in all, not 3).
- 9) Looking now at the back, rotate the pots into a position that provides good separation between adjacent pot terminals as depicted on the Wirogram, then tighten the nuts firmly but not excessively.
- 10) Mount the new output socket and thread the cable through the connecting tunnel into the main control cavity. The three plugs should be piggy backed, one in the back of the other, as depicted in the photo below. This arrangement makes it easier to thread the wires through the connecting tunnel.



- 11) Undo the 4 screws to open the terminal ports and insert the 3 Plugs and string grounding wire into their respective screw terminals as shown in the photo below. The Red wire (output Hot) is plugged into the terminal furthest away (fourth) from the pot. The Brown battery Negative plugs into the third port from the pot. The Shield (output ground) is plugged into the second port from the pot and the existing Black string grounding wire (from the spring claw at the back of the guitar -or- the body mounted central ground point, as the case may be) into the remaining port right on the pot. Tighten the screws firmly but not too tightly.





- 12) Assemble pickguard to body taking care not to cross thread the screws in the wood, and proceed to restring and set-up the pickups according to the fitting instructions.....  
or visit [www.kinman.com](http://www.kinman.com) >Tone Workshop >Tone for detailed info.

**End**