

FREE-WAY SWITCH

www.freewayswitch.com

MANUFACTURED IN ENGLAND BY NSF CONTROLS LTD

This guide applies to all 3X3 Free-Way models, although the Ultra model is illustrated here as it features the more complex wiring. With many solder terminals available, it is important to apply a careful method to wiring and this guide shows a simple method for achieving an ideal installation.

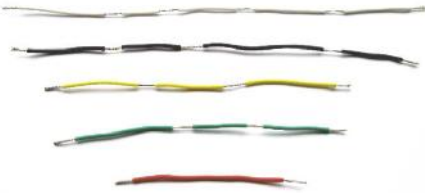
Carefully prepare the wiring to suit your preferred scheme before installing into the guitar.

Check that the Free-Way will fit - refer to individual schematic pages for dimensional information!

This guide requires and assumes proper competencies with regard to electrical and practical work, safety and the correct use of any equipment referenced here. Always take precautions to protect the guitar, yourself and others. Ensure that any associated products are installed in full accordance with the manufacturers instructions.

3X3 General Installation : Last Updated Nov 2013

1



Prepare link wires by stripping insulation as shown above. Use multi-strand wire (equivalent gauge to pickup conductor wires).

2



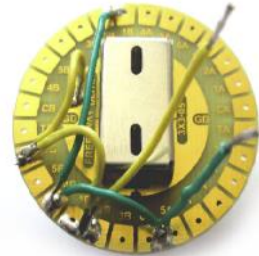
Shape the link wires by doubling over stripped sections, links should reach between the required pads without having excess wire.

3



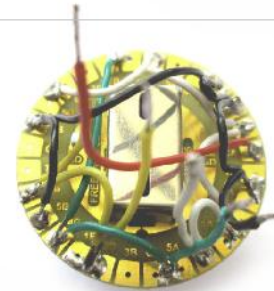
Tin the link wires using multicore solder as shown above - this will simplify soldering to the pads.

4



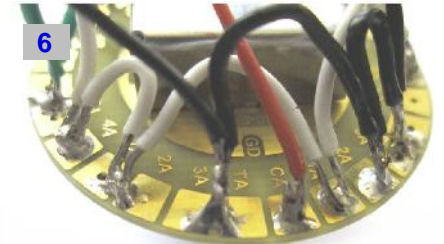
Solder the link wires onto the numbered pads as shown. Do not pre-tin the pads and avoid using excessive solder. Note ground connection. Casing is Stainless Steel and can not be soldered.

5



Link wire soldering completed - the wiring should not protrude beyond the switch perimeter to facilitate a clean install. Check for unwanted solder between pads - carefully scrape to clear, if necessary.

6



Some solder joints will span two pads - place the link wire between both pads and run the solder onto both pads evenly.

7



Before fixing in place, solder the guitar wiring to the link wiring and insulate connections. Protect the finish to your guitar!

8



Move the Free-Way into position and secure with the nut and washer, replace back covers. Protect the finish to your guitar!

9



To remove/replace the toggle tip, move the toggle into position 2 and carefully grip it with long-nose pliers. Protect the finish to your guitar!

10



Screw the toggle tip tightly onto the threaded shaft - the pliers will prevent the shaft from rotating. The Free-Way tip is M3.5 size as standard.