

Buzz

Instructions for fitting Sowter 8403X to an Existing MA-2.2 Chassis.

May 2000.

website: <http://www.buzzaudio.co.nz>
email: hq@buzzaudio.co.nz
Telephone or Fax 64+4+3852478

The transformer kit should include 2x pre-wired Sowter 8403X transformers and a set of mounting hardware.

Note that good soldering skills are required to wire up the kit.

Step 1.

Turn off and remove the mains power cord from the MA2.2. Remove the top panel using a suitable Pozidrive screwdriver. Note the top panel is divided in two sections, the smaller section over the power transformer does not need to be removed.

Step 2.

Using a suitable wrench, loosen and remove from the rear panel the two 1/4" jack sockets to gain access to the solder pins. With a soldering iron, remove all wires from the jack socket and set aside. Unsolder and remove all the wires from the adjacent XLR male output connector. Note the colour codes, as the new wiring will use the same.

Step 3.

Locate the green/orange coloured cage clamp OJT connector on the channel card. Remove the wires from this by pushing the orange slide away from the wire entry point and pull out the wire. (In some versions of the MA2.2, these connectors are grey colour, push down on the white lever to remove the wires). Note the colour code, as the new wiring will use the same. You should now have all the old output wiring removed and it can be discarded.

Step 4.

Locate the two empty transformer mounting holes on the MA2.2 bottom panel directly behind the channel card. Using the supplied M3 countersunk screws and nuts, mount the Sowter 8403X's with the 3 terminal side of the transformer facing the rear panel. (Note the supplied nuts have a nylon inner to prevent loosening in transit and therefore are stiff to tighten. A suitable size nut driver will assist in fitting these). Ensure the transformer mounts are tight.

Step 6.

Refer to the attached wiring diagram. Locate the WHITE/BLUE/GREEN twisted loom labelled #1. This connects to the channel card OJT connector (reverse of step 3). Note if your card has the green/orange cage clamp connectors, the wires need to be inserted a fair distance into the holes to make contact. Pull on the wires to ensure they have made contact. If your card has the grey connectors, you will need to trim back the tinned copper to approx 5mm to fit without shorting together. Take note of the correct colour code.

Step 7.

Locate the WHITE/BLUE/GREEN twisted loom labelled #3. This solders onto the XLR male socket. Pin 3 is BLUE, pin 2 is WHITE and pin 1 is GREEN. Note the extra GREEN wire which loops to the 1/4" jack socket in step 8.

Step 8.

Locate the WHITE/BLUE twisted loom labelled #2. This solders to the 1/4" jack socket. WHITE is the tip connection, BLUE is the ring (or centre) connection. The spare GREEN wire from the XLR pin 1 (step 7) connects to the sleeve connection. Check that all the wiring is correct and the connections are good.

Step 9.

Refit the jack plugs to the rear panel with the solder pins facing downward. Do not overtighten the plastic nuts to avoid stripping the threads. Use the supplied cable ties to tidy the wiring, but DO NOT strap the MIC input wires alongside the output wiring. This should be left separated. You may wish to check the outputs are working correctly before replacing the top panel, but please use caution. Do not touch any internal parts with power applied. When replacing the top, do not over tighten the screws that go into the side extrusions.

* * * * *