



INSTALLATION OF LUNDAHL OUTPUT TRANSFORMERS TO MA-2.2

The transformer kit should contain 2x pre-wired LI1517 transformers on PCB's, a set of mounting hardware and 2x 220 ohm resistors.

1] Turn off and remove the mains power cord from the MA2.2. Remove the top panel with a suitable Pozir-drive screw driver. The lid screws can be tight so it is important you have the right sized tool. Note the top panel is divided in to 2 sections, the smaller section over the power transformer does not need removal.

2] Unplug the ribbon cables between the power supply and the channel cards. Remove the long ribbon from the unit. Unplug the two white connectors near the front panel that connect to the switches. Locate the four screws holding the MA2.2 channel card to the bottom panel and remove them.

3] You should be able to now spin over the channel cards to gain access to the underside of the circuit board. Locate the WIMA output coupling capacitors and solder the 220 ohm resistor across the capacitors on the underside. See page 3.

(The 220 ohm resistor is required to dampen the reaction between the inductance of the Lundahl transformer and the MA2.2 output capacitors, which will causes a very pronounced frequency response boost at approx 20Hz)

4] Re-fit channel cards to chassis and replace power supply ribbons and plug the white connectors back in.

5] Using a suitable wrench, remove from the rear panel the 1/4" output jack sockets. With a soldering iron remove all the wires from the socket and set aside. Unsolder and remove the wires from the male output XLR connector. Note the colour code which will be the same for the new wires.

6] Locate the green/orange coloured cage clamp OUT connector at the rear of the channel card. Remove the wires by pushing the orange slide away from the wire entry point and pull out the wire. (In some older version of the MA2.2 these connectors are grey colour, push down on the white lever to remove the wires). Note the colour code. You should be able to now remove all output wiring.

7] Locate the two empty screw holes between the channel cards and the rear panel. Feed the supplied M3x16 screws thru the hole and slide on the plastic spacers. (The spacers have a self retaining lip so can be a bit tight). With the screws in place mount the Lundahl pcb and fit the nuts. The nuts have a nylon inner so can be tight so a nut driver is useful. See page 2.

8] Refer to the wiring diagram on page 2. Locate the WHITE/BLUE/GREEN twisted loom labelled #1. This connects to the channel card output cage clamp connector (reverse of step 6). Note the wires need to go a long way in to make contact, pull on the wires to make sure it's solid. (If your card has the grey connectors, trim the tinned wire back to about 5mm before fitting).

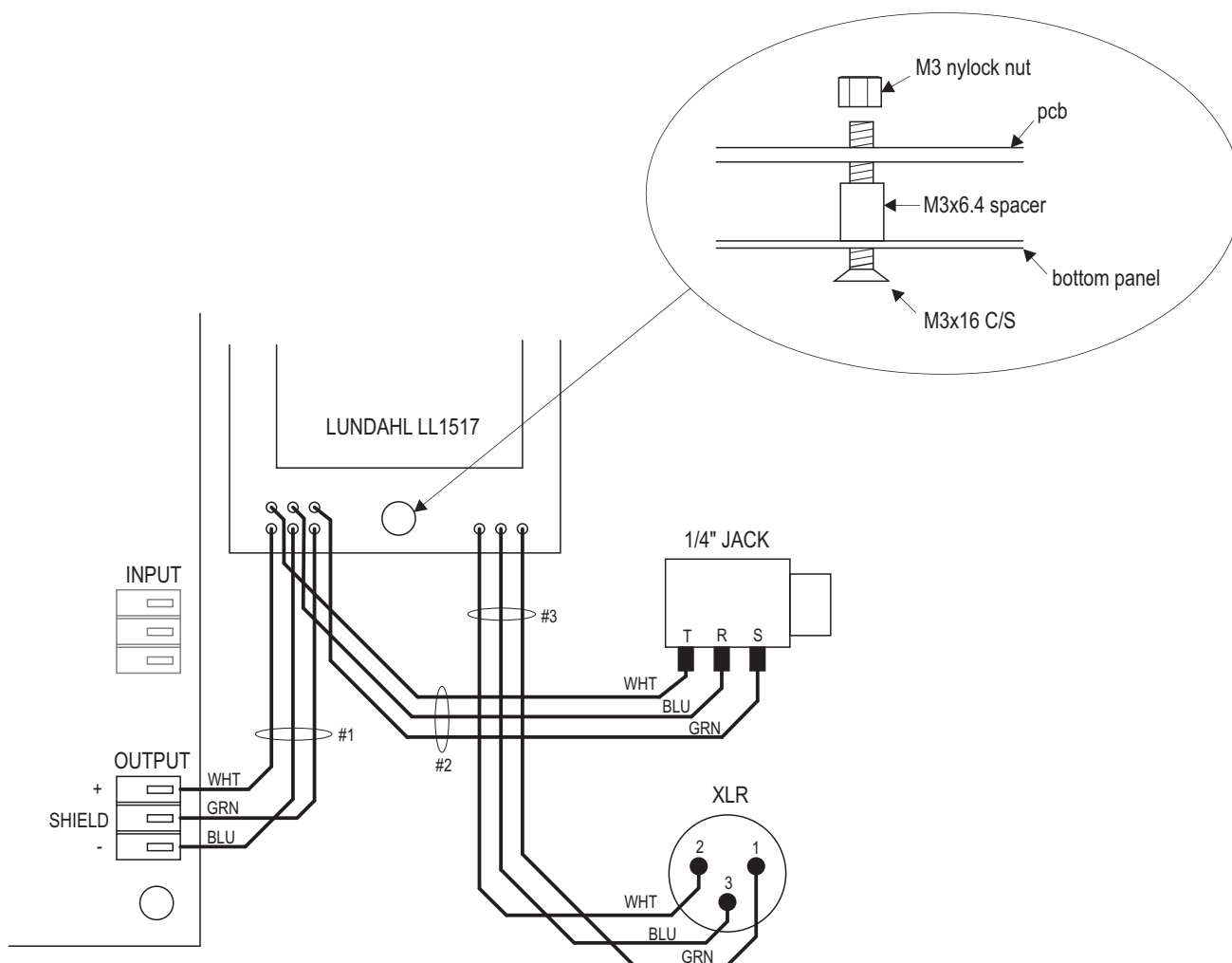
9] Locate the twisted loom labelled #2, this solders onto the 1/4" jack socket previously removed. WHITE is TIP, BLUE is RING and GREEN is SLEEVE. The jack sockets can be refitted to the rear panel once soldered. Do not over tighten the jack socket nut.

10] Locate the twisted loom labelled #3, this solders onto the XLR connector, GREEN is PIN 1, WHITE is PIN 2 and BLUE is PIN 3. Double check all connections are correct.

11] Once everything is done, you may wish to check it's working before replacing the top panel. Note that with the kit installed, the 1/4" jack will carry the MA2.2 unbalanced output (prior to the transformer) and the XLR carries the transformer balanced output. If you cannot get any output, the most common cause will be the wires are not inserted deep enough into the green/orange cage clamp connectors and are not making contact.

12] When replacing the top panel, be careful not to over tighten the screws into the side extrusions to avoid stripping them out.

Any problems contact us at www.buzzaudio.com or email management@buzzaudio.co.nz.



WIRING DIAGRAM

MA2.2 CHANNEL CARD UNDERSIDE VIEW

solder 220 ohm resistor across
WIMA output
capacitors.

