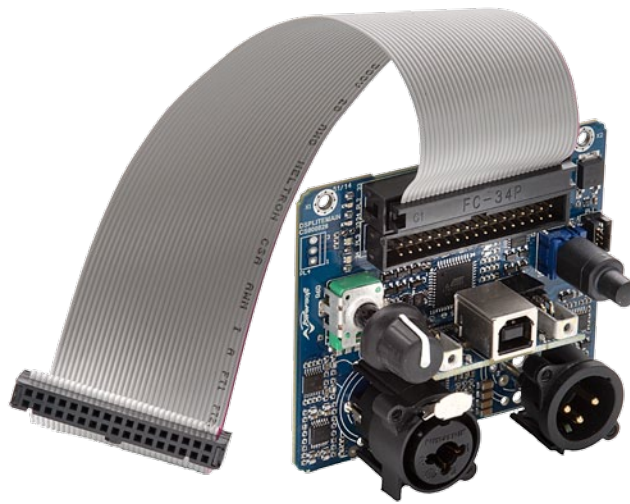




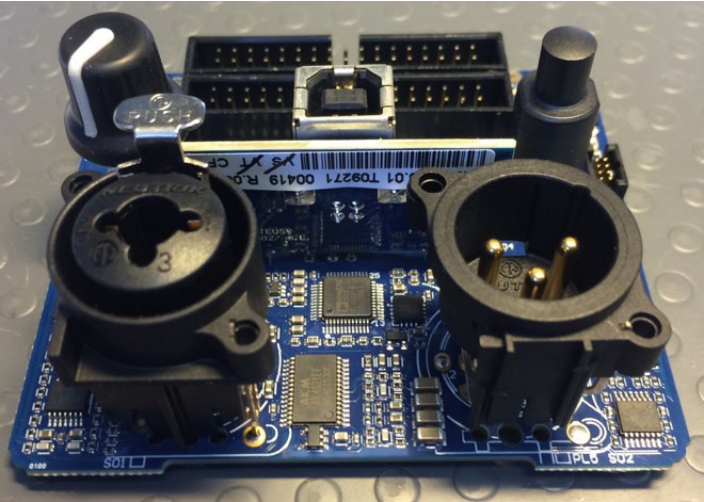
DSP LITE



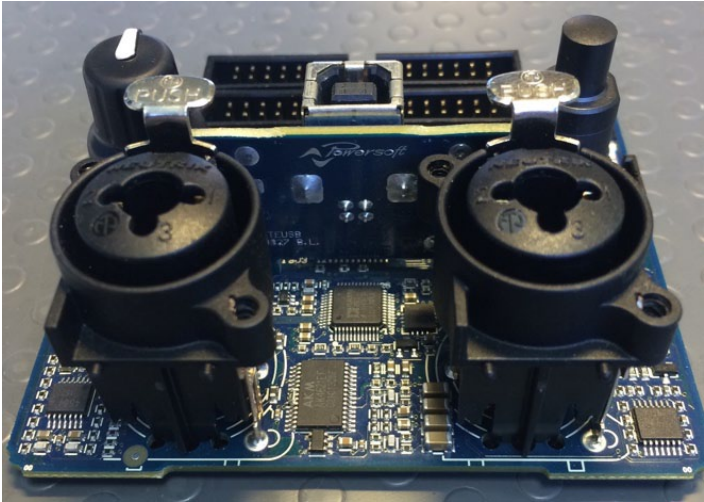
Two-Input Configuration

DSP-Lite Two-Input Configuration

The factory default hardware configuration features an XLR/TRS female input connector and an input-thru XLR male output (Figure 1). This manual guides you through the steps to customise the DSP-Lite board for the two-input configuration (Figure 2). The modification consists in replacing the male XLR with a female XLR/TRS connector, in addition to a few PCB adjustments.



(Figure 1 - One Input Configuration)



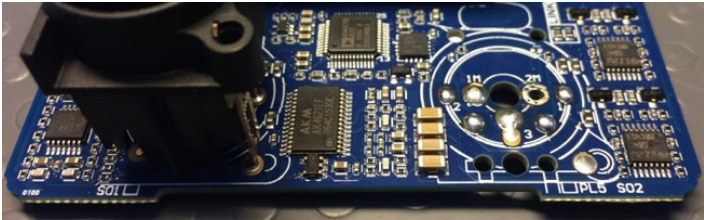
(Figure 2 - Two Input Configuration)

Required Tools:

- Soldering Iron (possibly Temperature Controlled)
- Desoldering pump/Desoldering gun

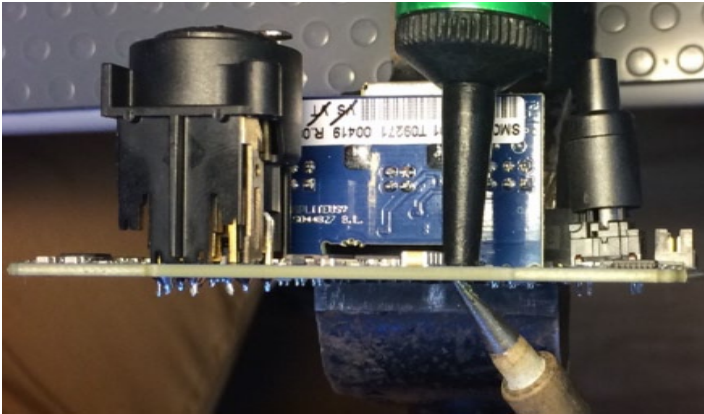
Procedure:

The first step consists in desoldering the male XLR. We suggest to use a desoldering gun but a good quality temperature controlled soldering iron should do the job. Perform this operation carefully, avoiding excessive heat or mechanical stress in order to safeguard solder pads and through-hole plating (Figure 3).



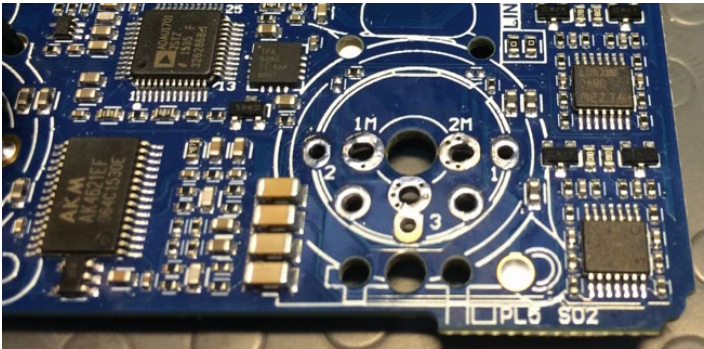
(Figure 3 - Removing the Male XLR)

Remove solder from PCB holes with a desoldering pump or a desoldering gun (Fig. 4).



(Figure 4 - Removing the solder)

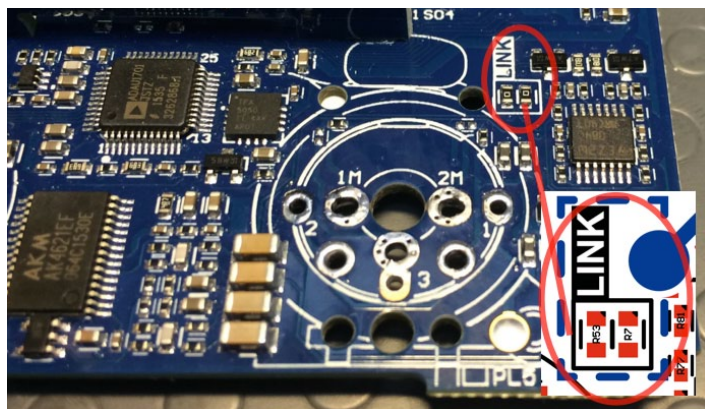
Figure 5 portrays the end result.



(Figure 5)

The next stage consists of removing SMD resistors: R7, R53, R147, R148.

Locate the “LINK” marking on the PCB, close to the top-right edge of the XLR silkscreen layout (Figure 6).



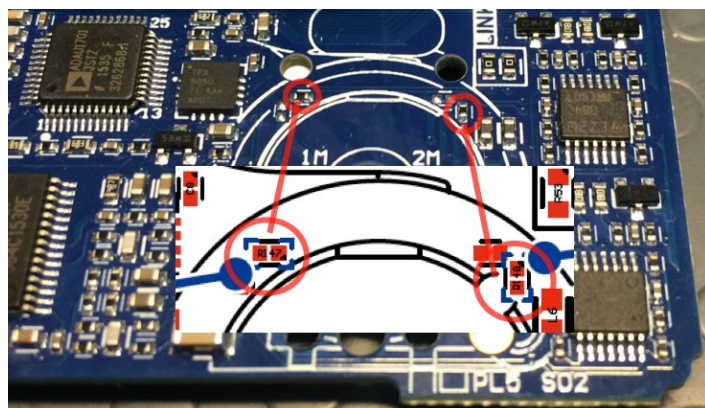
(Figure 6 - R7 and R53 detail)

Use the soldering iron with some added solder to heat the four pads simultaneously and remove the resistors (figure 7).

Don't short the pads and take extra care to clean up any solder excess.



(Figure 7 - Removing R7 and R53)

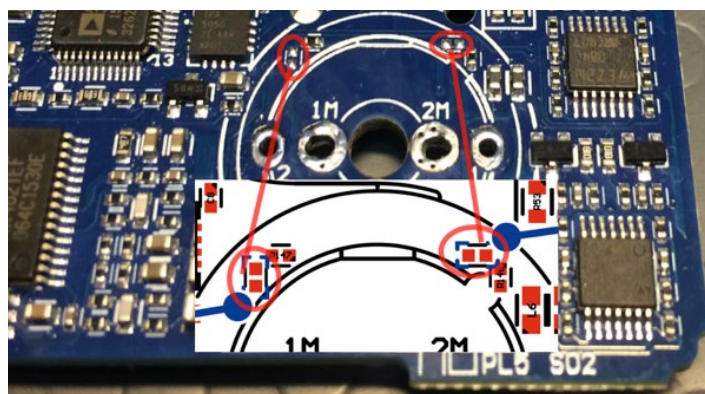


(Figure 8 - R147 and R148 detail)

Repeat the procedure to remove R147 and R148 (Figure 8).

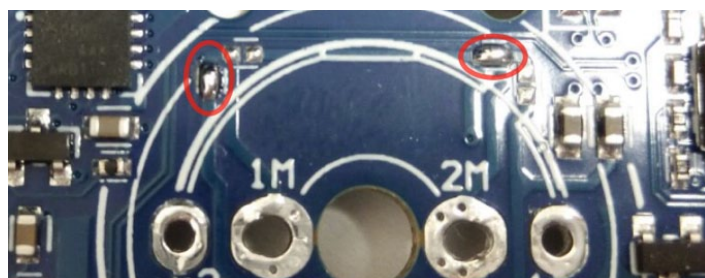
The following step consists of shorting the pads in figure 9.

Use the soldering iron with some added solder to ensure proper joining.



(Figure 9 - Pads Location)

The solder joints should look like in figure 10.



(Figure 10 - Shorted Pads)

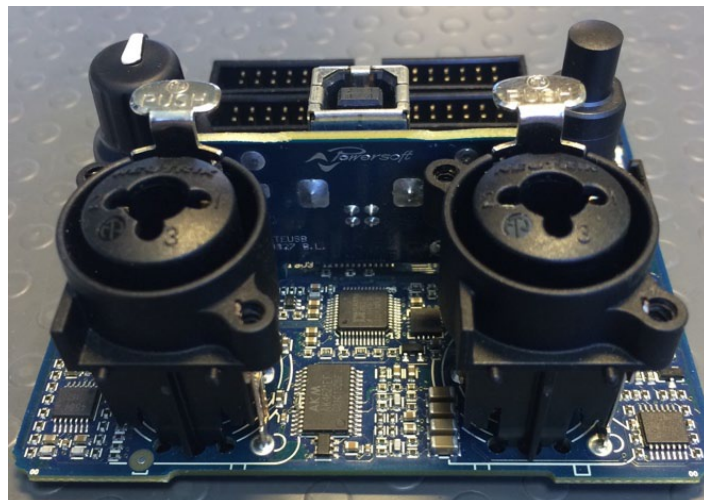
The last stage consists in soldering the XLR/TRS female connector.

We strongly recommend Neutrik NCJ6FA-V for assured PCB layout and mechanical compatibility.

Simply hold the connector in place and solder it (Figure. 11)

The DSP-Lite is now hardware-configured for two-input operation.

Please refer to the DSP-Lite User Guide for two-input DSP routing configuration.



(Figure 11 - Modified DSP Lite)

Warning: in order to avoid unwanted short circuits between the conductive parts of the XLR connector, do not use exceeding quantities of solder, as it may seep trough the PCB with unwanted results. Please avoid pushing the XLR connector with too much force when soldering, as this may also yield to unwanted short circuits between the delicate components.

IMPORTANT SAFETY ADDENDUM

The aim of this addendum is to describe the safety precautions to be undertaken when servicing any Powersoft amplifier/module.







WE RECOMMEND THAT ALL SERVICE OPERATIONS ARE CARRIED OUT BY A TRAINED TECHNICIAN

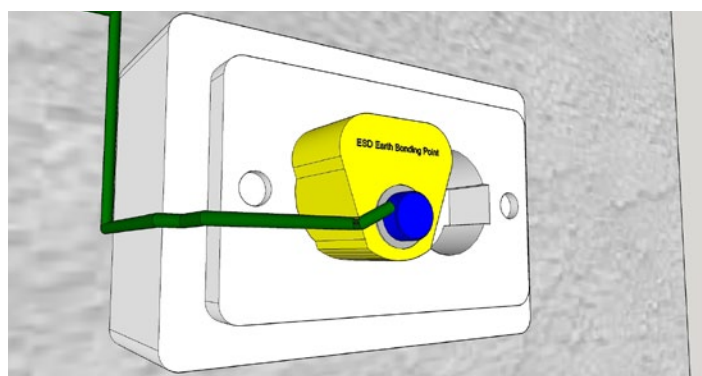
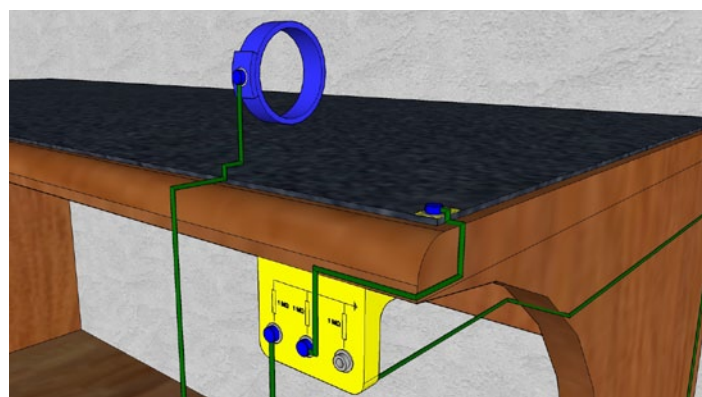
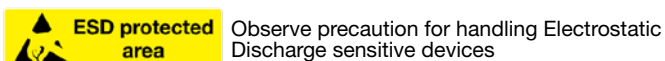
IF NOT EXPLICITLY STATED OTHERWISE, DISCONNECT THE AMPLIFIER FROM THE MAINS.

ALWAYS DISCHARGE THE INTERNAL CAPACITORS BANK PRIOR TO SERVICING THE AMPLIFIER

Common signs description:

The following is a description of all the warning signs that are commonly implemented throughout our range of products, and those that are mandatory in every service station or workplace.

Label	Meaning
	General Danger
	Danger: High Voltage
	Danger: Hot Surface
	Danger: Electrostatic Discharge (ESD)
	Electrical Grounding Point
	Protective Footwear Must be Worn



Safety precautions:

We recommend to follow all precautions stated by the law while handling sensitive electrical components.

All of the servicing work must be carried in a EPA ESD compliant environment, with the exception of the mere handling of the mechanical parts.

An ESD protected workstation consists in:

- Static-Dissipative working surface connected to the EBP (Farnell 1503198)
- Wrist-chord and wrist band connected to the EBP (Farnell 1546970)

The technician must wear:

- Protective Footwear
- ESD EPA clothing (Farnell 1735510)
- Static dissipative gloves (Farnell 1503210)

The following pictures portray the minimum ESD-Protected setup, including static dissipative working surface and wristband connected to an Earth Bonding Point connected to the ground.

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