

Adjusting the Amplifier's Absolute Gain

The voltage gain of many of our amplifiers can be adjusted to match your system's requirements. Different amplifiers have different capabilities – these are explained below:

Amplifier Series & Model	Gain Adjustment?	Details & Notes
T Series T500, 1000, 1500, T4-250	Fixed at +32dB	No adjustment possible.
T Series T2000	Serial numbers <i>before</i> 8102570 fixed at +32dB	Serial numbers <i>after</i> 8102570 adjustable: See Page 2
T Series T3500	Selectable between +32dB and +36dB	See Page 2
Ti Series Ti500, 1000, 1500, 2000, 3500	Selectable between +32dB and +36dB	See Page 3
Ti Series Ti4250	Selectable between +32dB, +36dB	See Page 4
S Series S800, S1400	Selectable between +32dB and +36dB	See Page 5
E Series E15, 25, 45	Selectable between +32dB, +36dB and fixed sensitivity input @ +6dBu	See Page 6
E Series E4-75	Selectable between +32dB, +36dB and fixed sensitivity input @ +6dBu	See Page 7
E Series E90	Selectable between +32dB, +36dB and fixed sensitivity input @ +6dBu	See Page 8
E Series E100	Selectable between +32dB, +36dB and fixed sensitivity input @ +6dBu	See Page 9

Note that the fixed sensitivity gain option available on E Series amplifiers means that full output power will always be achieved at the same absolute input level (+6dB) when this option is used. This results in different gain settings for different amplifiers, as the more powerful the amplifier, the higher the voltage gain will be for a given sensitivity.

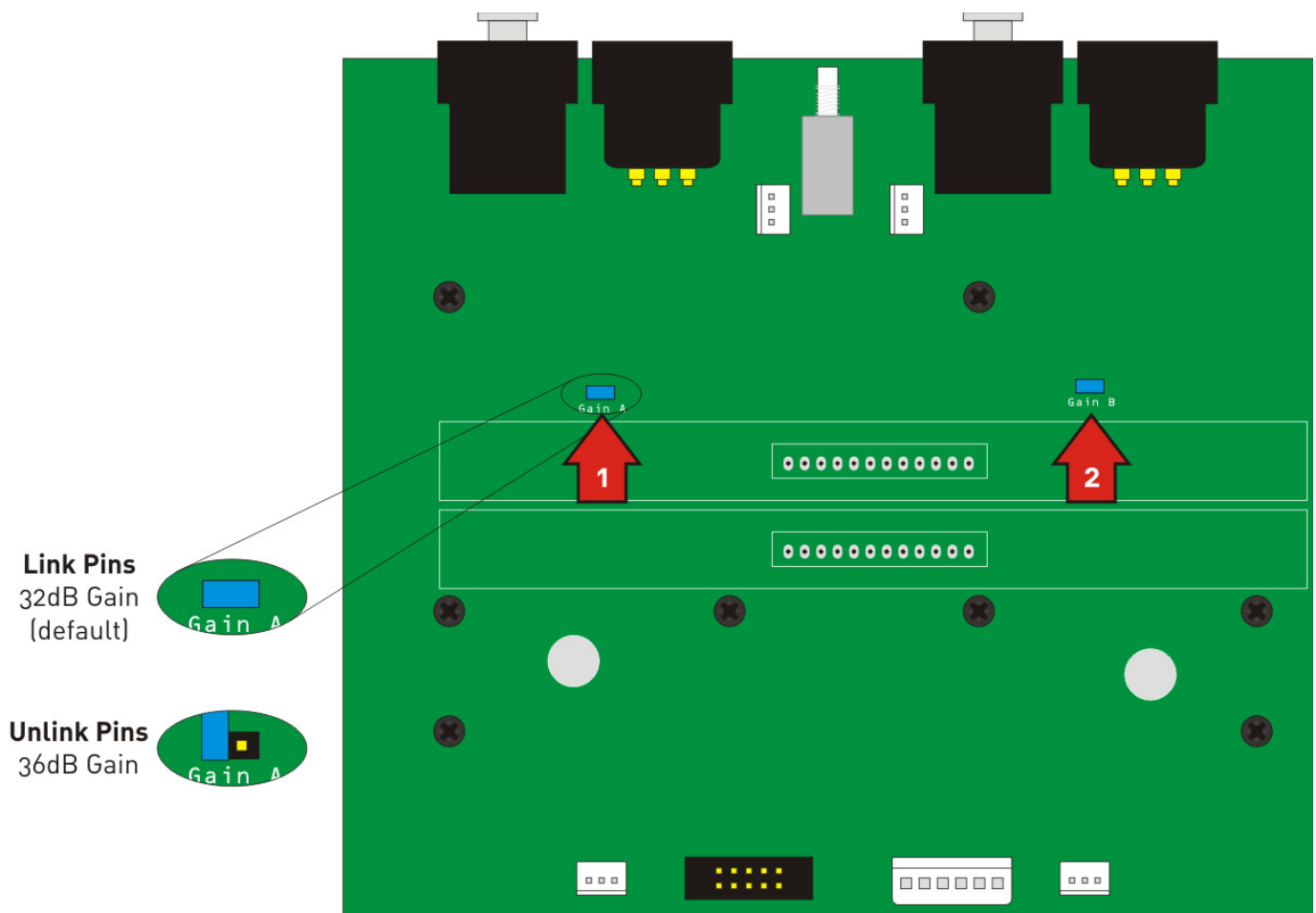
T2000 and T3500 Amplifiers

*This applies to T2000 amplifiers from serial number 8102570 onwards – earlier serial numbers of T2000 amplifiers have a fixed gain of +32dB.

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing away from you, locate the input circuit board as shown below – it is attached to the input XLR connectors. Find the two sets of links as marked by the arrows, and move them as shown to set the gain as required. Number 1 adjusts channel A's gain, and number 2 adjusts channel B's gain.



When selecting the 36dB gain position, we recommend fitting the jumper link back onto one of the individual pins for storage, in case the gain has to be changed back at any stage.

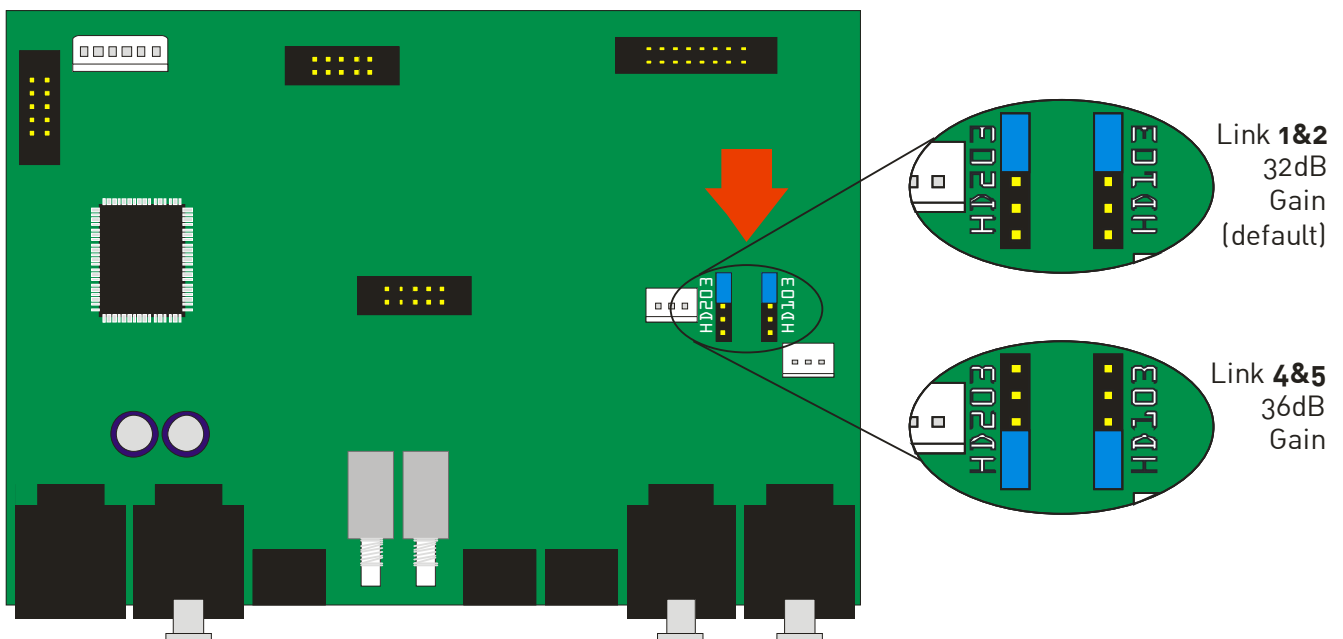
Ti500/1000/1500/2000/3500 Amplifiers

This applies to all Ti- Series amplifiers **excluding** the Ti4250 – see overleaf for details of the Ti4250.

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing you, locate the input circuit board as shown below – it is attached to the input and RS485 XLR connectors. Find the two sets of links as marked by the arrows, and move them as shown to set the gain as required.



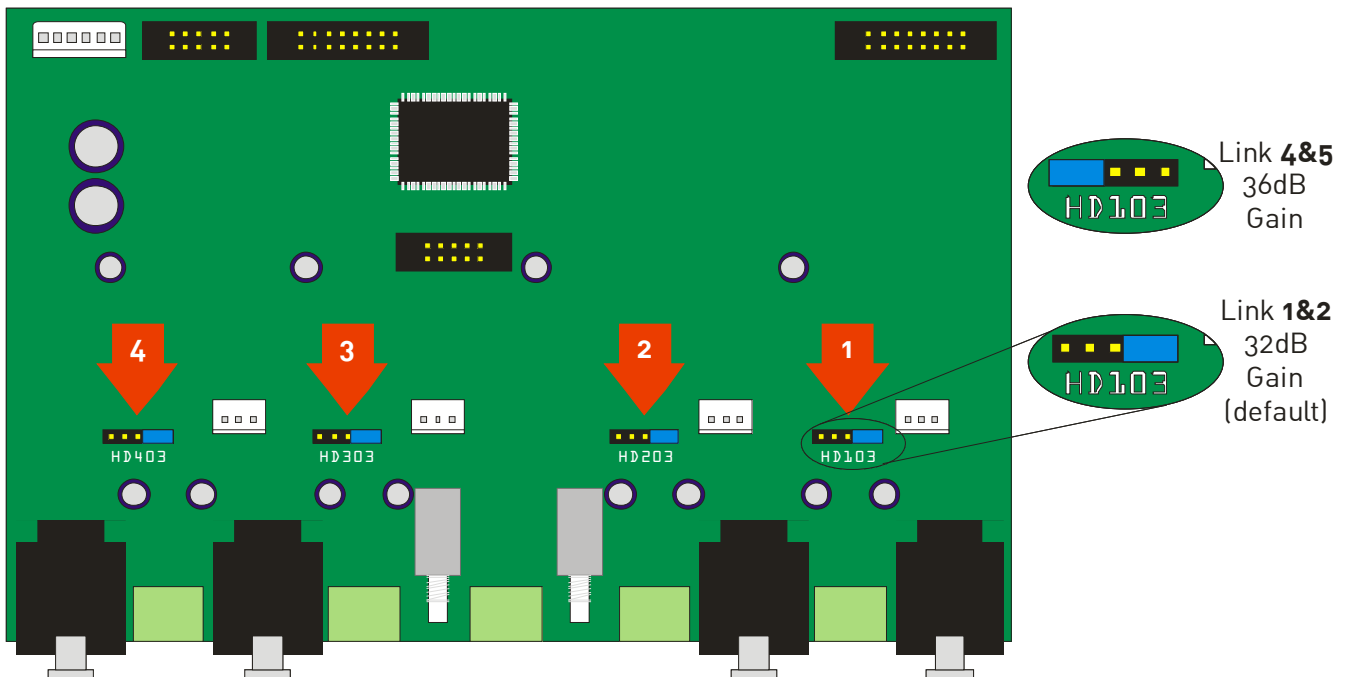
HD103 sets the gain for channel A, and HD203 sets the gain for channel B. We recommend both channels are set to the same position!

Ti4250 Amplifier

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing you, locate the input circuit board as shown below – it is attached to the input and RS485 XLR connectors. Find the sets of links as marked by the arrows, and move them as shown to set the gain as required.



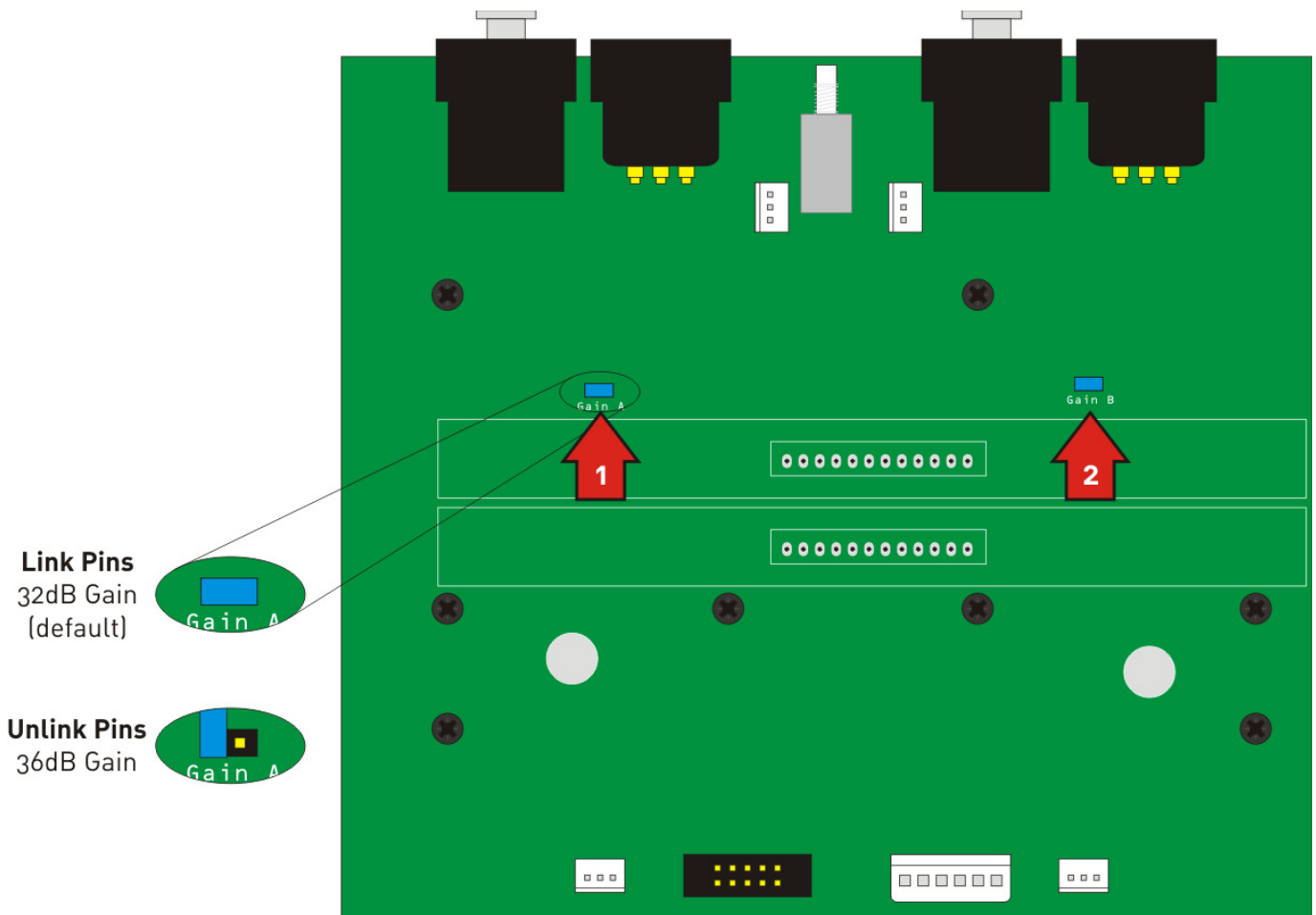
HD103 sets the gain for channel A, and HD203 sets the gain for channel B etc. We recommend all channels are set to the same position to avoid confusion!

S800 and S1400 Amplifiers

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing away from you, locate the input circuit board as shown below – it is attached to the input XLR connectors. Find the two sets of links as marked by the arrows, and move them as shown to set the gain as required. Number 1 adjusts channel A's gain, and number 2 adjusts channel B's gain.



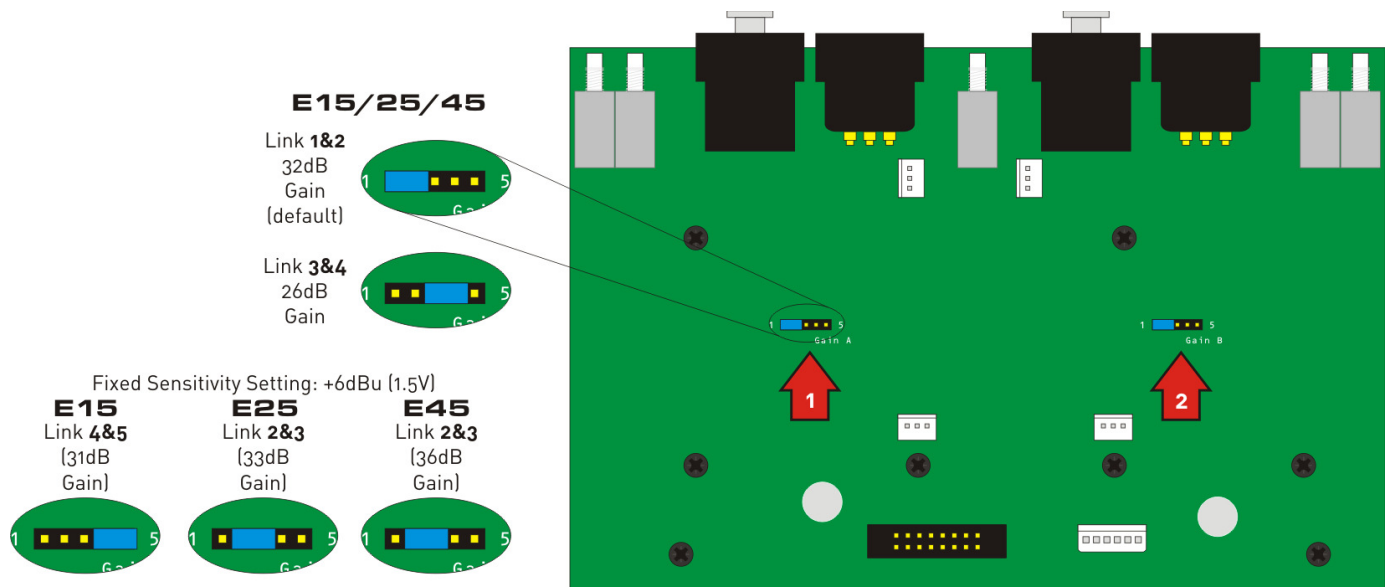
When selecting the 36dB gain position, we recommend fitting the jumper link back onto one of the individual pins for storage, in case the gain has to be changed back at any stage.

E15/25/45 Amplifiers

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing away from you, locate the input circuit board as shown below – it is attached to the input XLR connectors. Find the two sets of links as marked by the arrows, and move them as shown to set the gain as required. Number 1 adjusts channel A's gain, and number 2 adjusts channel B's gain.



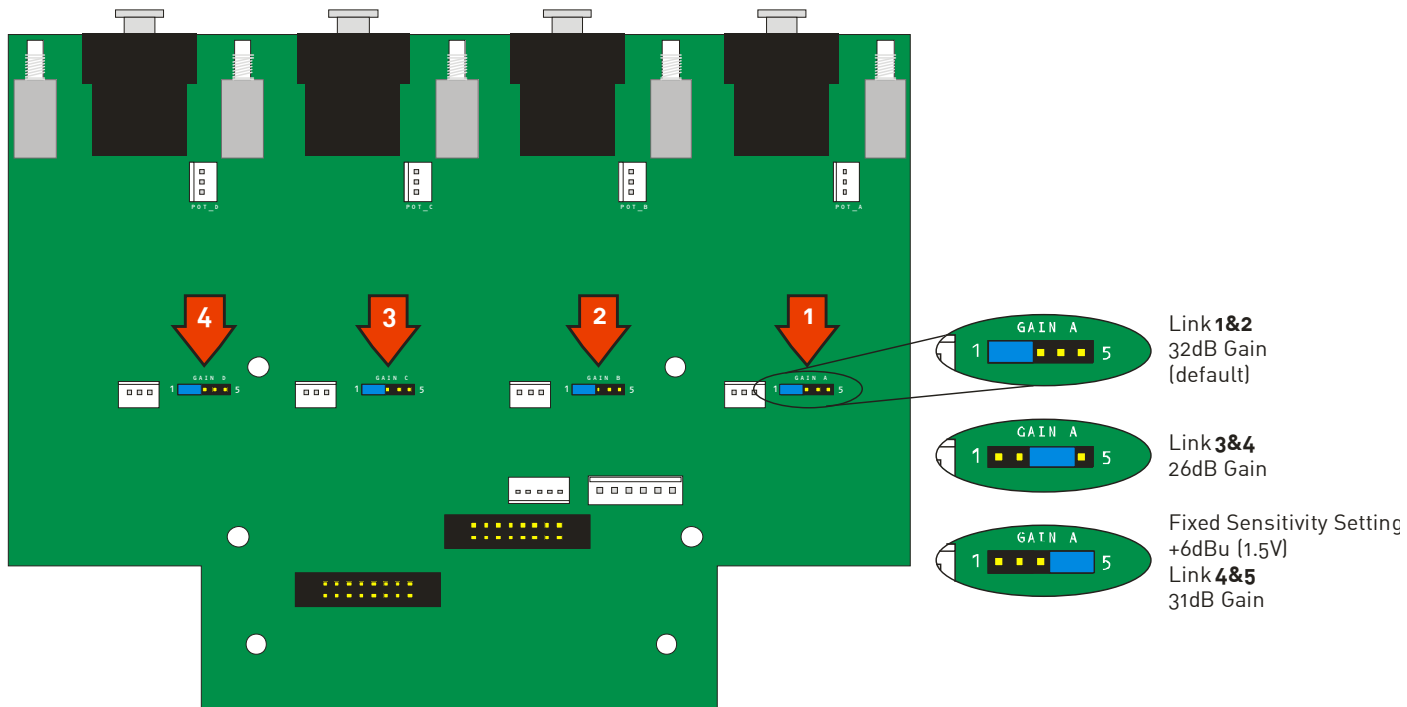
*Equivalent gain for the fixed sensitivity setting is different depending on the amplifier model – see diagram above for details.

E4-75 Amplifier

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing away from you, locate the input circuit board as shown below – it is attached to the input XLR connectors. Find the sets of links as marked by the arrows, and move them as shown to set the gain as required. Number 1 adjusts channel A's gain, and number 2 adjusts channel B's gain and so on.



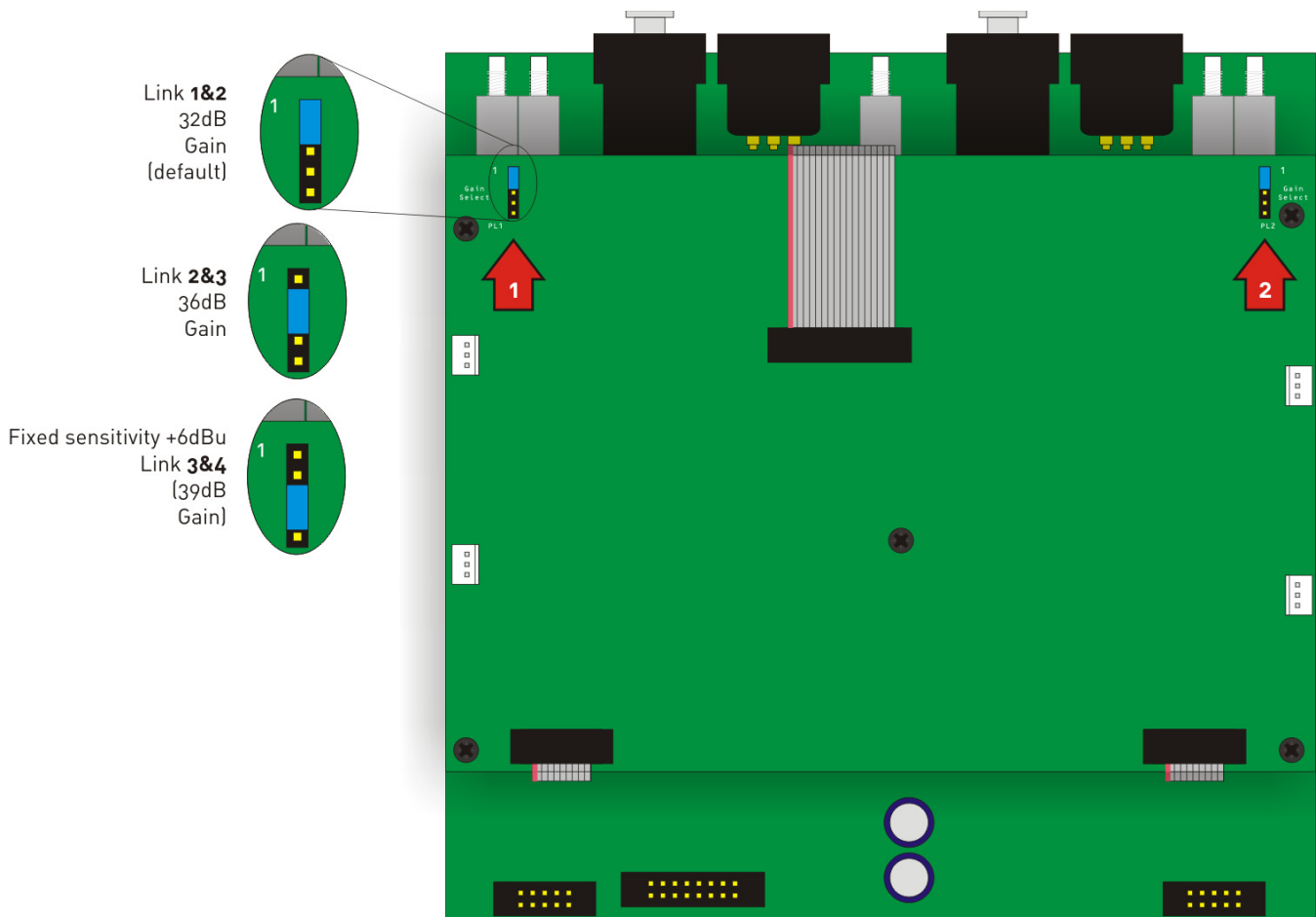
*Equivalent gain for the fixed sensitivity setting is 31dB.

E90 Amplifier

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing away from you, locate the input circuit board as shown below – it is attached to the board carrying the input XLR connectors. Find the sets of links as marked by the arrows, and move them as shown to set the gain as required. Number 1 adjusts channel A's gain, and number 2 adjusts channel B's gain.



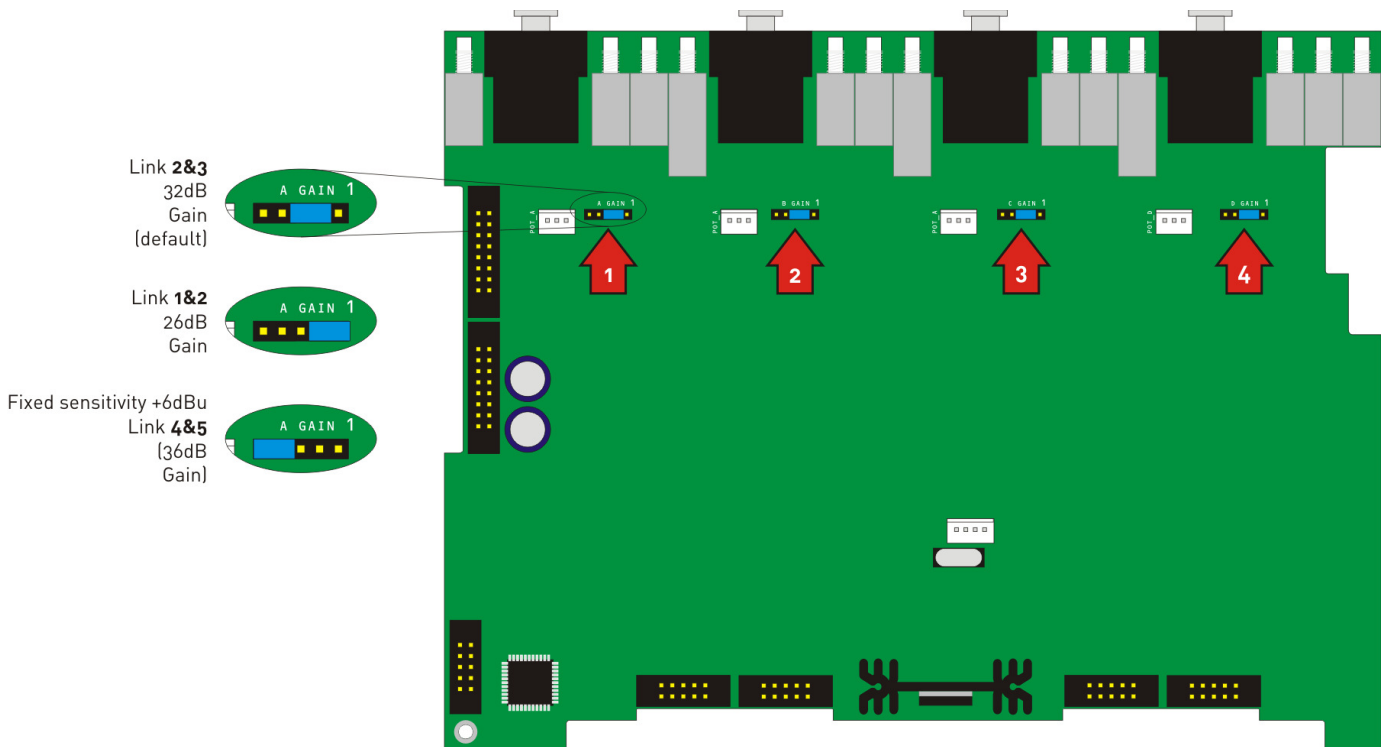
*Equivalent gain for the fixed sensitivity setting is 39dB.

E100 Amplifier

SAFETY WARNING

Removing the lid will expose you to potentially dangerous voltages!
Disconnect the amplifier from the mains supply and do not touch any heatsinks as they may still be at a high potential!

After removing the lid and with the rear panel facing away from you, locate the input circuit board as shown below – it is attached to the input XLR connectors. Find the sets of links as marked by the arrows, and move them as shown to set the gain as required. Number 1 adjusts channel A's gain, and number 2 adjusts channel B's gain and so on.



*Equivalent gain for the fixed sensitivity setting is 36dB.