



GlenSound

EXPRESS

MKII

SIMPLE COMMENTATOR UNIT

PRODUCT DETAILS

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Thank you for choosing a new GlenSound product.

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Information contained in this manual is subject to change without notice, if in doubt please contact us for the latest product information.

If you need any help with the product then we can be contacted at:

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PRODUCT WARRANTY

All equipment is fully tested before dispatch and carefully designed to provide you with trouble free use for many years.

We have a policy of supporting products for as long as possible and guarantee to be able to support your product for a minimum of 10 years.

For a period of one year after the goods have been dispatched the Company will guarantee the goods against any defect developing after proper use providing such defects arise solely from faulty materials or workmanship and that the Customer shall return the goods to the Company's works or their local dealer.

All non-wear parts are guaranteed for 2 years after dispatch and any defect developing after proper use from faulty materials or workmanship will be repaired under this warranty providing the Customer returns the goods to the Company's works or their local dealer.



SAFETY WARNING



This product can produce high sound levels via the headphone output.


Please take caution when operating this product as listening to excessively high peak or sustained levels of volume may permanently damage human hearing.



EU DECLARATION OF CONFORMITY FOR:

EXPRESS MKII SIMPLE COMMENTATOR UNIT

This declaration of conformity is issued under the sole responsibility of the manufacturer.

This equipment is manufactured by Glensound Electronics Ltd of Brooks Place Maidstone Kent ME14 1HE is  marked and conforms to the following Union harmonisation legislation:

Low Voltage Directive: EN60065 and EN62368-1:2014

Emissions: BS EN55032:2015

Immunity: BS EN55035:2017

Signed for and on behalf of Glensound Electronics Ltd.

Gavin Davis, Managing Director
Maidstone, Kent, England

Date: 29/03/2018

ROHS DIRECTIVE

EC directive 2002/95/EC restricts the use of the hazardous substances listed below in electrical and electronic equipment.

This product conforms to the above directive and for these purposes, the maximum concentration values of the restricted substances by weight in homogenous materials are:

Lead	0.1%
Mercury	0.1%
Hexavalent Chromium	0.1%
Polybrominated Biphenyls	0.1%
Polybrominated Diphenyl Ethers	0.1%
Cadmium	0.01%

WASTE ELECTRICAL AND ELECTRONIC
EQUIPMENT REGULATIONS 2006 (WEEE)

GlenSound Electronics Ltd is registered for business to business sales of WEEE in the UK our registration number is:

WEE/JJ0074UR

GLENSOUND EXPRESS MKII

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OVERVIEW

The Glensound Express MKII is a two user commentary box providing all of the basic functionality required for two commentators or announcers, where quick and easy setup and operation is important.

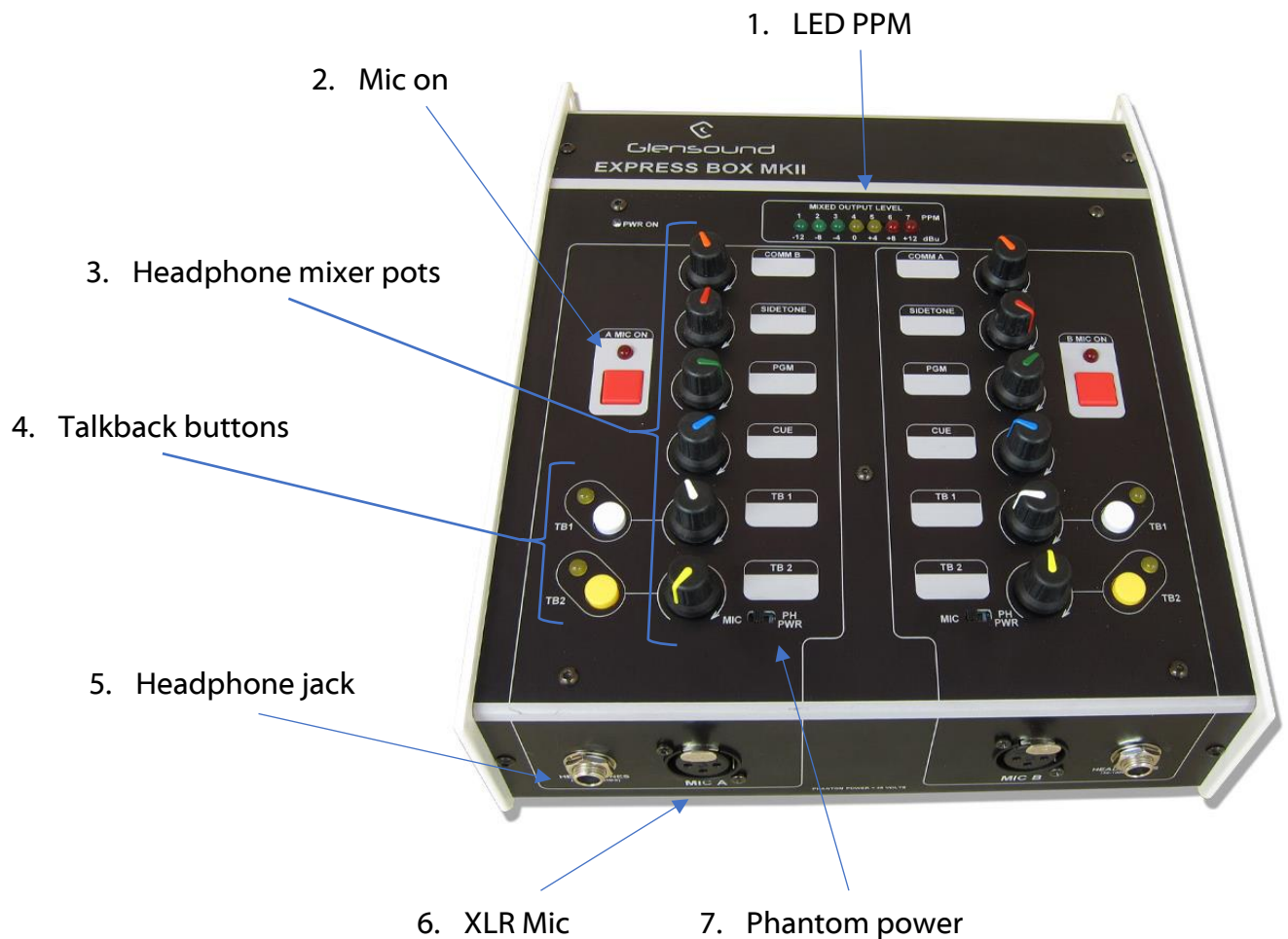
It is widely used for sports commentary, reporter interfacing at news events, or for studio based audio translation.

There are four audio inputs into the users' headphones for monitoring, and two talkback circuits. High quality mic amps are used, along with Glensound's Referee compressor/limiter system to help prevent overloading the input circuit.

NEW FOR MKII

The Express MKII features two additional audio paths for the commentators, allowing them both to be able to hear each other's mic locally without external mixing.

EXPRESS MKII FRONT PANEL LAYOUT



1. LED PPM Meter

The LED PPM Meter indicates the level of outgoing audio using the BBC 1 – 7 scale.

2. Mic on button

Pressing this button routes the microphone to the programme audio output. It is a latching button by default but can be set to be always on, or a momentary mute when held down. More information can be found on page 14.

3. Headphone mixer knobs

COMM B & A

This pot adjusts the mic audio level of the opposing channel for the headphone output.

SIDETONE

This pot adjusts the level of the mic audio for the headphone output.

PGM

This pot adjusts the headphone level of the PGM audio signal.

CUE

This pot adjusts the headphone level of the CUE audio signal.

TB 1

This pot adjusts the headphone level of the Talkback 1 audio signal.

TB 2

This pot adjusts the headphone level of the Talkback 2 audio signal.

4. **Talkback buttons**

Pressing either talkback 1 or talkback 2 mutes the microphone on the programme output, and routes the audio to the corresponding talkback output. The operation of this button is configurable into 4 modes (momentary, latching, intelligent, off). See page 14 for details.

5. **Headphone jack output**

The 6.35mm jack socket allows 35 – 1000 Ω impedance headphones using A/B gauge plug.

6. **XLR Mic input**

The female 3 pin XLR socket allows microphones to be connected to the Express MKII.

7. **Phantom power switch**

This switch turns on or off +48v phantom power input for use with condenser microphones.

EXPRESS MKII REAR PANEL LAYOUT

2. TB 1 & 2 Input 1. Aux inputs 3. Talkback outputs 5. Microphone outputs



6. Mains power input

1. **TB 1 & 2 Input**

Two female XLRs allow audio signals to be sent to the Express MKII that will appear on the headphone outputs at the push of the TB1 & TB2 buttons on the front panel.

2. **Aux inputs**

Two female XLRs for Cue In and PGM In are both audio signals sent to the headphone mix for channel A and B. The level of these signals in the headphone mix is adjusted via the corresponding pots on the front panel.

3. **Talkback outputs**

Two male XLR inputs for talkback 1 and talkback 2 mean that audio from the microphone input on the front panel can be sent here. This is commonly used for when the user needs to speak only to a technician or producer rather than have their voice broadcast.

4. **Mix output**

This male XLR will output audio containing the mix of levels that the user has configured with the pots on the front panel.

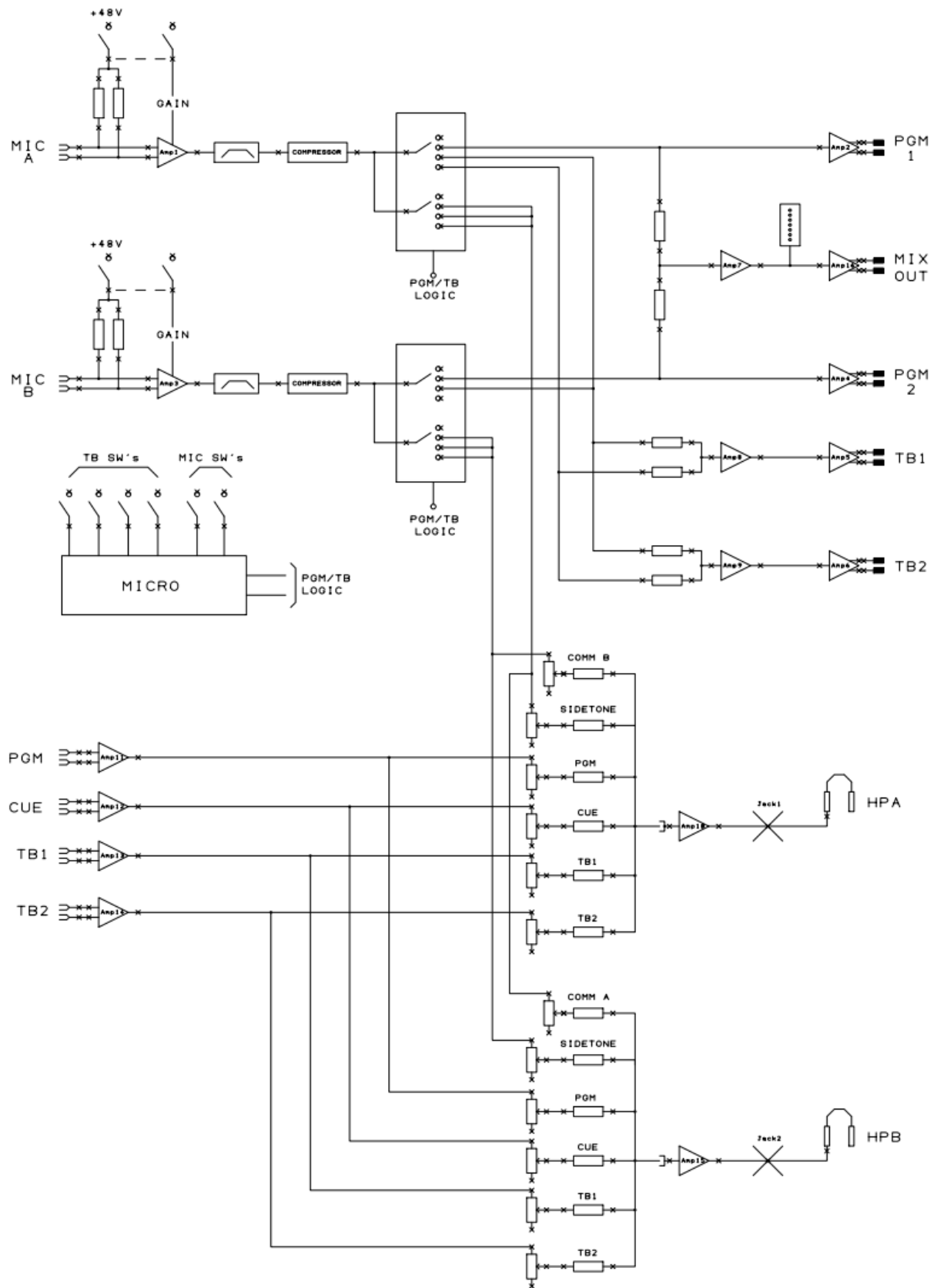
5. **Microphone outputs**

Two male XLRs provide the microphone output for both microphone inputs.

6. **Mains power input**

The IEC mains plug accepts external AC voltages of 100 - 240 VAC +/- 10%.
There is a non-accessable internal fuse for this input.

SIMPLIFIED BLOCK DIAGRAM



BUTTON FUNCTIONALITY

Two modes are available for the channel on/ off button and 4 modes for the talkback button operation. After mode changes the selected configuration will be stored, and reloaded when the Express MKII is next switched on.

To enter programming mode of the Express MKII:

1. Turn the Express MKII off.
2. Hold down the 'A MIC ON' and 'A-TB1' buttons.
3. While holding the above buttons down turn the Express MKII on.
4. Release the above buttons, you are now in programming mode.
5. While in programming mode the LEDs indicate the current setting.
6. To change a setting push the switch next to the LED.

After setting the desired mode, turn the Express MKII off, your new settings will now be ready next time the unit is turned on.

LED INDICATION OF MODES

A & B MIC ON

Each main mic on switch can be programmed independently. Two modes are available, toggle on/ off or momentary off (cough).

LED	SWITCH OPERATION
OFF	Momentary (Cough)
ON	Toggle On/ Off

TALKBACK SWITCHES

The operation of all the talkback switches must be identical. There are 4 different possible settings.

TB1 LED	TB2 LED	All TB SWITCH OPERATION
OFF	OFF	Toggle & Momentary (quick tap to toggle, press & hold for momentary)
OFF	ON	Toggle
ON	OFF	Momentary
ON	ON	Disabled

INTERPRETER MODE

It is possible to set the Express MKII to operate as a simple two language interpreter's unit.

If set to interpreter mode then A and B Mic On buttons latch and toggle on/off. TB1 buttons also latch and toggle on/off.

The MIC A & B buttons interact with their own channel's TB1 button, whereby a channel's Mic On and TB1 (on) button cannot both be on at the same time and pressing one while the other is active will cause them to toggle.

The above means that Mix Out would be used for language one and TB1 out would be used for language two.

TB2 button still works as an off air talkback channel and pressing it will automatically turn off either Mic ON or TB1 (on) if they were on, on the channel that TB2 has been operated on.

To enable the Interpreter mode then:

1. Turn the Express MKII off.
2. Hold down the 'A MIC ON', 'A-TB1' and 'A-TB2' buttons.
3. Whilst holding down the above buttons turn the Express MKII on.
4. Both MIC On LEDs will flash very quickly to indicate the programming has been accepted.
5. Turn the Express MKII off.

The next time you turn the unit on it will be in Interpreter mode.

To turn off the Interpreter mode, then follow the instructions to enter programming mode under 'button functionality' on the previous page.

MICROPHONE GAIN

The two microphone inputs of the Express MKII have a fixed gain level.

To account for the higher gain level of condenser microphones; when the phantom power switch is turned on a -10dB pad is applied to the output.

If you have a microphone with an exceptionally high output level, the Express MKII fixed gain level may not be low enough to avoid clipping.

It is possible to change the gain by removing two internal links. This process is semi-permanent, as it requires a sharp object to do and a soldering iron to undo.

Warning 

This process must only be undertaken by an approved technician. **DO NOT** attempt this procedure unless you know what you are doing. **Take extreme care.**

Equipment needed

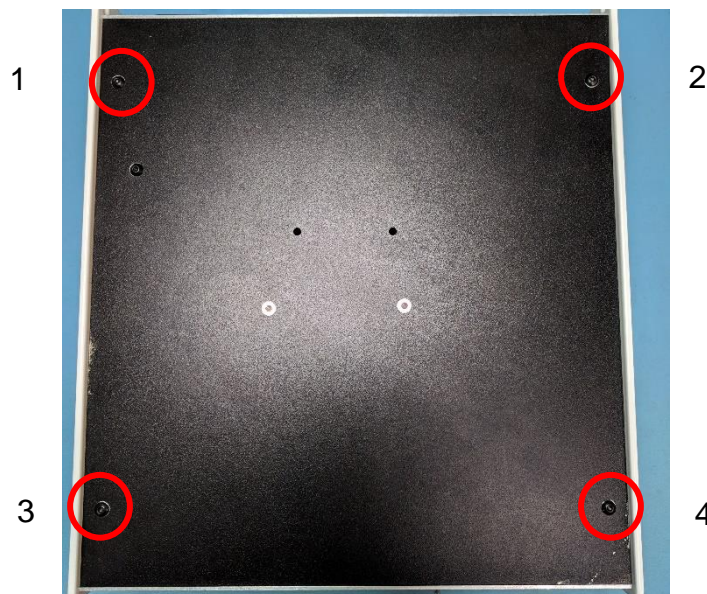
1x M3 Screwdriver

1x A small precision sharp object – A scapel is best

Disconnect the Express MKII from all power sources before continuing.

Procedure

To disassemble the Express MKII, remove screws 1, 2, 3 and 4 from the bottom panel.



Remove the bottom panel.

You will be greeted with this view of the motherboard. The location of two links which must be removed are highlighted in red circles.

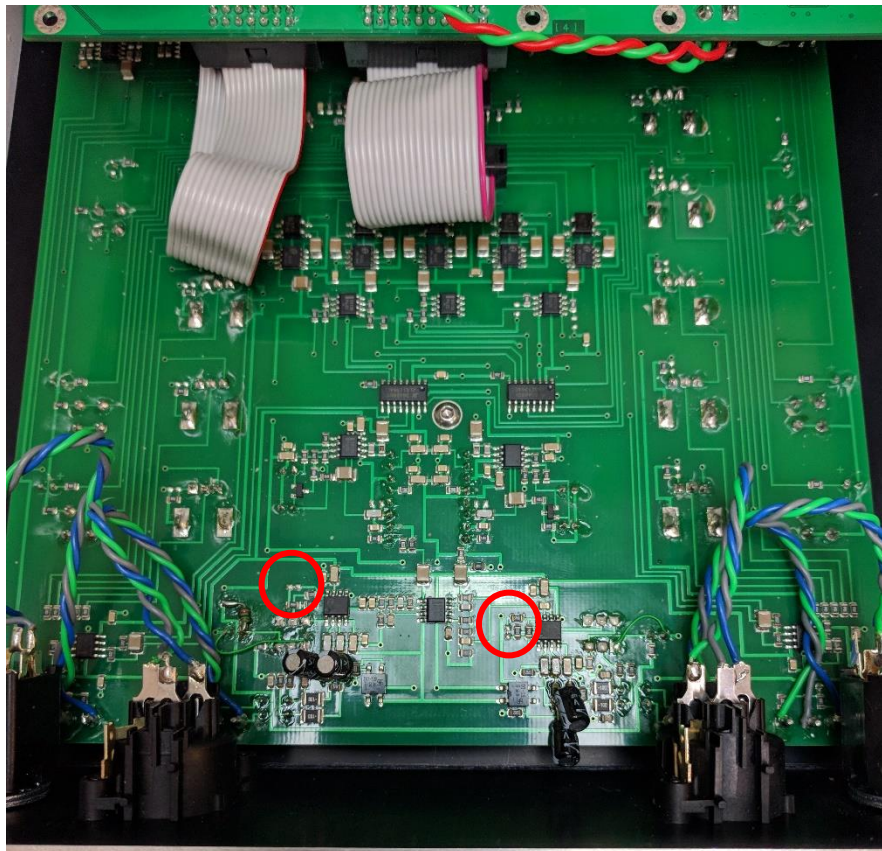


Figure 1 Interior view

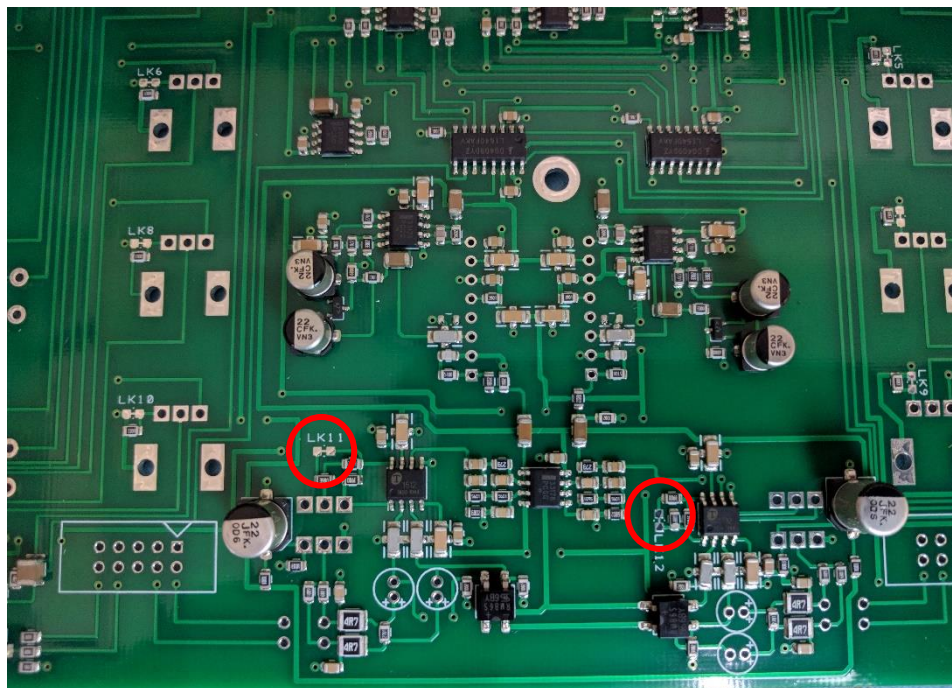


Figure 2 Links

Using a precise sharp object, cut the small track between the two pads for LK11 and LK12.

Take extreme care, cutting more than just the specific links may cause the Express MKII to malfunction.

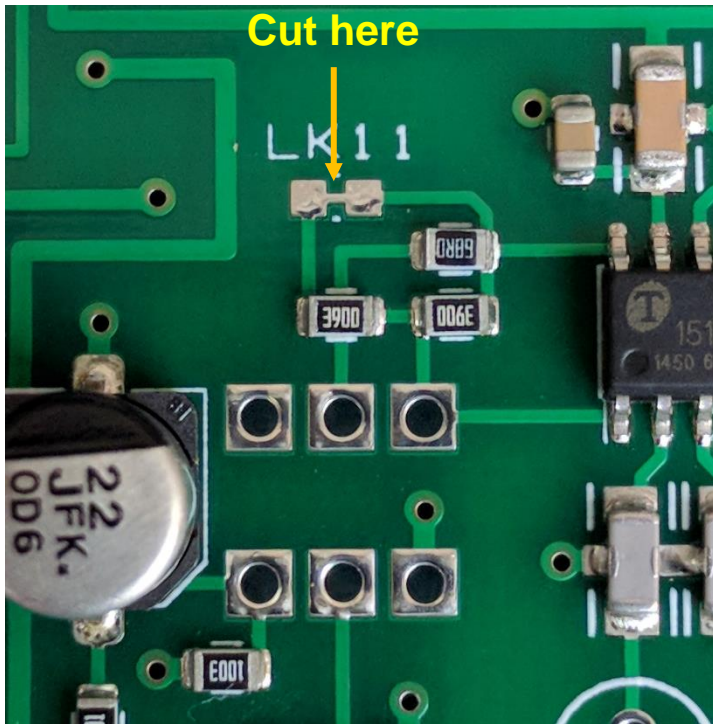


Figure 3 Link 1

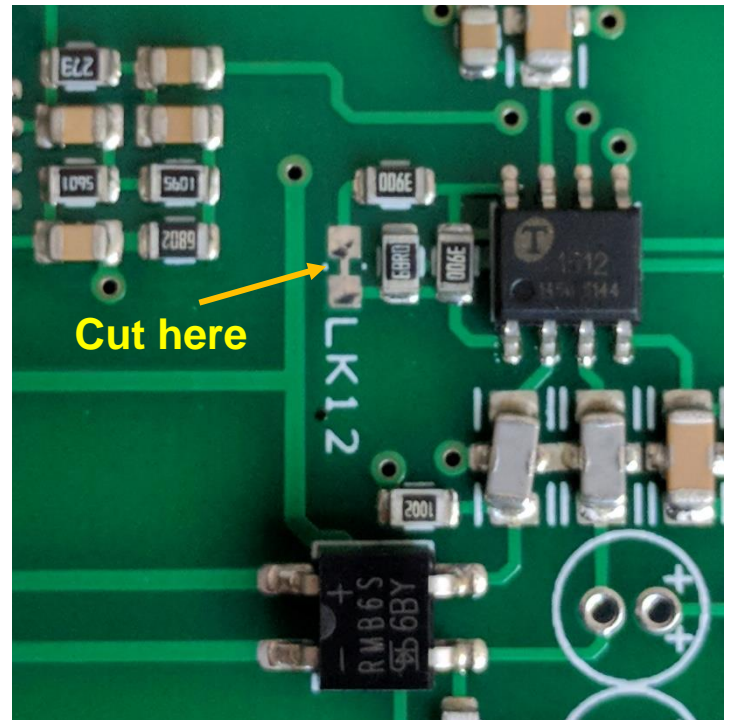


Figure 4 Link 2

Once the small track between the two pads has been cut, the gain will have been adjusted.

To revert this process, you must solder a bridge across one pad to the other to recreate the link.

Always ensure that the unit has been properly re-assembled and the bottom panel screwed securely in **before** powering up the Express MKII.

MICROPHONE GAINS FOR 0dBu OUTPUTS

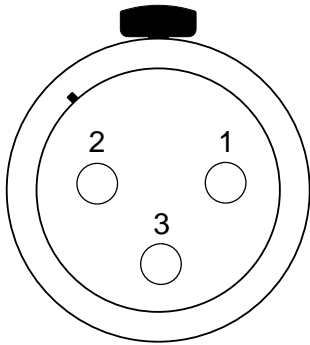
Dynamic Mic (Phantom power OFF) : 54dB

Condenser Mic Phantom power ON and internal link made: 44dB (factory default)

Condenser Mic Phantom power ON and internal link CUT: 37dB

WIRING INFORMATION

XLR & JACK Wiring



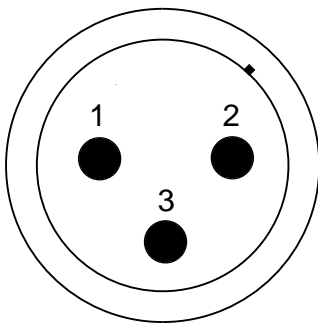
XLR SOCKET (FEMALE)

STANDARD XLR AUDIO PINOUTS:

1: Ground/ Earth

2: INPHASE/ POSITIVE/ MIC +

3: MATE/ NEGATIVE/ MIC -



XLR PLUG (MALE)

STANDARD HEADPHONE WIRING:

TIP: A/ LEFT Ear

RING: B/ RIGHT Ear

SLEEVE: Common/ Earth

