GS-FW035

SINGLE USER ANALOGUE AUDIO INTERFACE

PRODUCT DETAILS

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Glensound Electronics Ltd

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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EMAIL ADDRESSES

General enquires: office@glensound.co.uk

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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 despatched 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 despatch 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.

CE

EU DECLARATION OF CONFORMITY FOR:

GS-FW0035

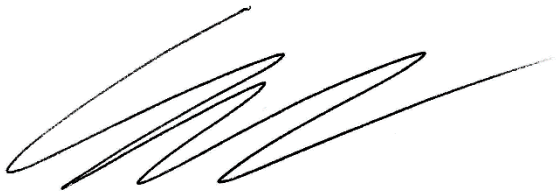
Single User Analogue Audio Interface

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 CE 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: 10/05/2018

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%

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.

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 GS-FW0035

Handbook Contents

Issue 1

Description Page No.

Contents

OVERVIEW

The Glensound GS-FW0035 is an analogue audio device comprising of a mic input stage with sidetone monitoring, mic output and external audio input monitoring.

The GS-FW0035 has two output options, lazy and switched.

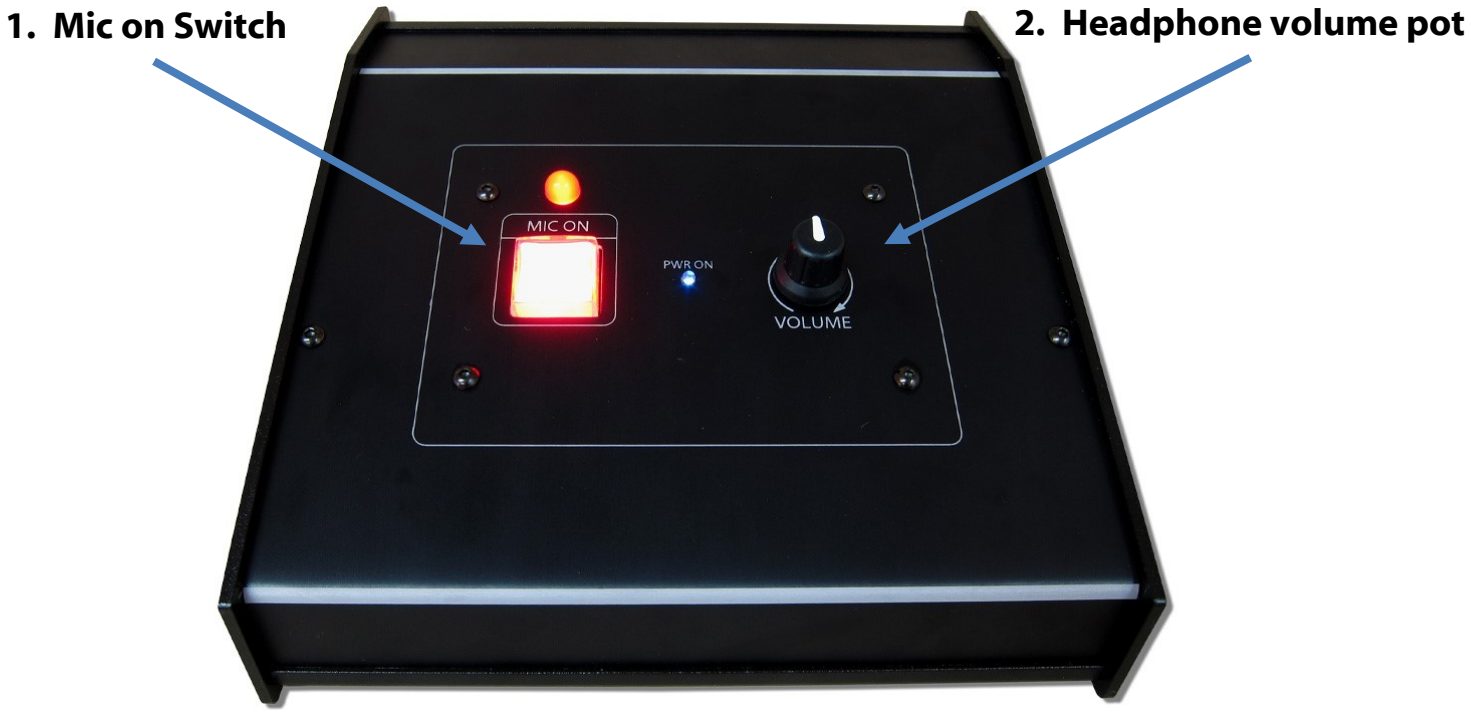
Lazy	Switched
Always outputing the mic input signal regardless of the switch position.	Only sends the mic audio when the switch on the front panel is activated

The mic in gain can be adjusted by the trimmer pot on the back panel and features a compressor limiter stage with a preset band-pass EQ filter.

The Four Wire input allows the user to hear audio from an external source. The gain of this incoming signal can be adjusted on the back of the unit.

There is internal sidetone level adjustment from a fixed pot.

GS-FW0035 FRONT PANEL LAYOUT



1. Mic on Switch

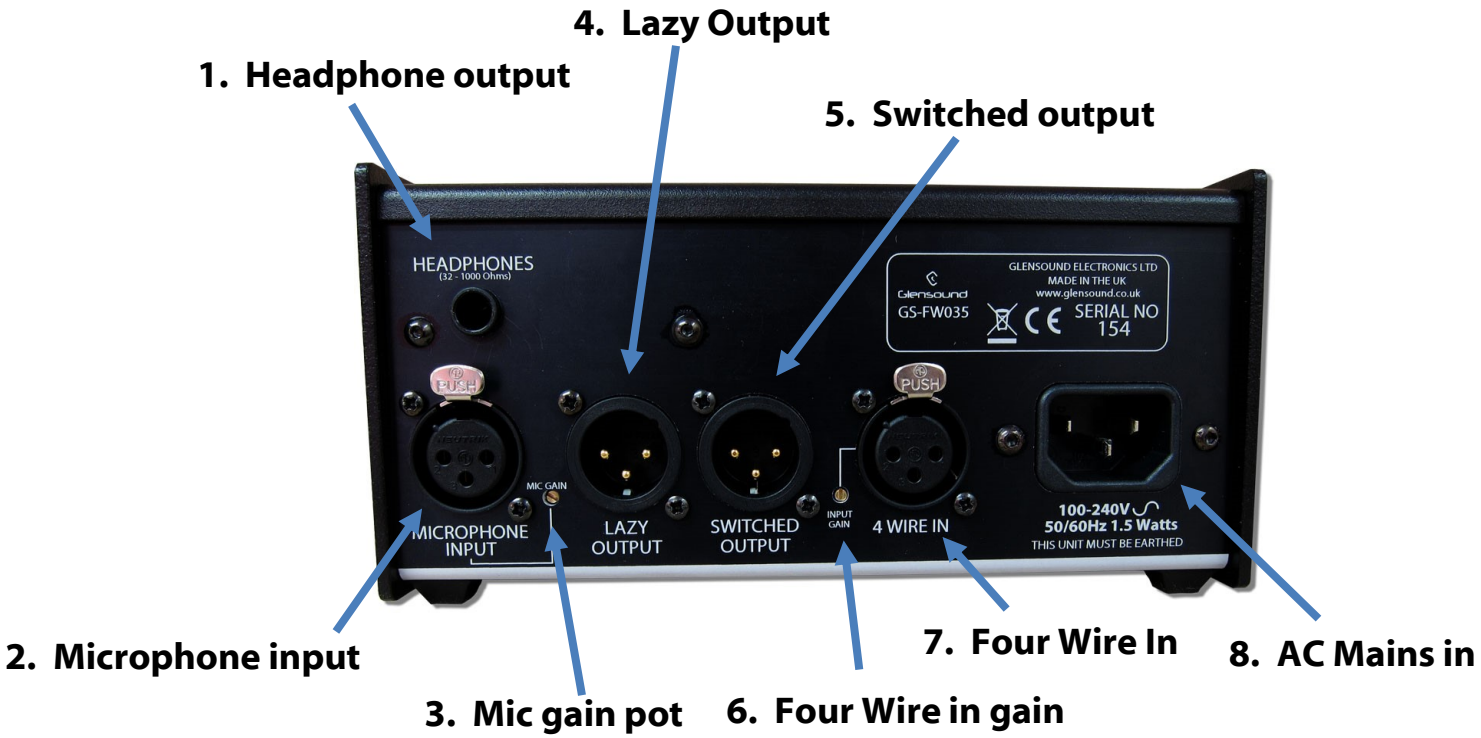
This switch activates the microphone to send to the 'Switched output' and the headphone output (sidetone). The switch illuminates when it is in an 'on' position.

The functionality of this switch can be adjusted, read how on page 12.

2. Headphone volume pot

This potentiometer adjusts the level of the microphone (sidetone) and the incoming audio from the Four Wire input heard in the headphone output.

GS-FW0035 REAR PANEL LAYOUT



1. Headphone output

This standard 6.3mm (1/4”) stereo headphone socket accepts headphones from 32 to 1000 Ω.

2. Microphone input

This is a balanced microphone input.

3. Mic gain pot

This trimmer pot adjusts the gain level of the microphone input.

4. Lazy output

This XLR output will continually output the raw microphone signal regardless of the state of the Mic On switch.

5. Switched output

This XLR will output the microphone signal if the state of the Mic On Switch is ‘on’.

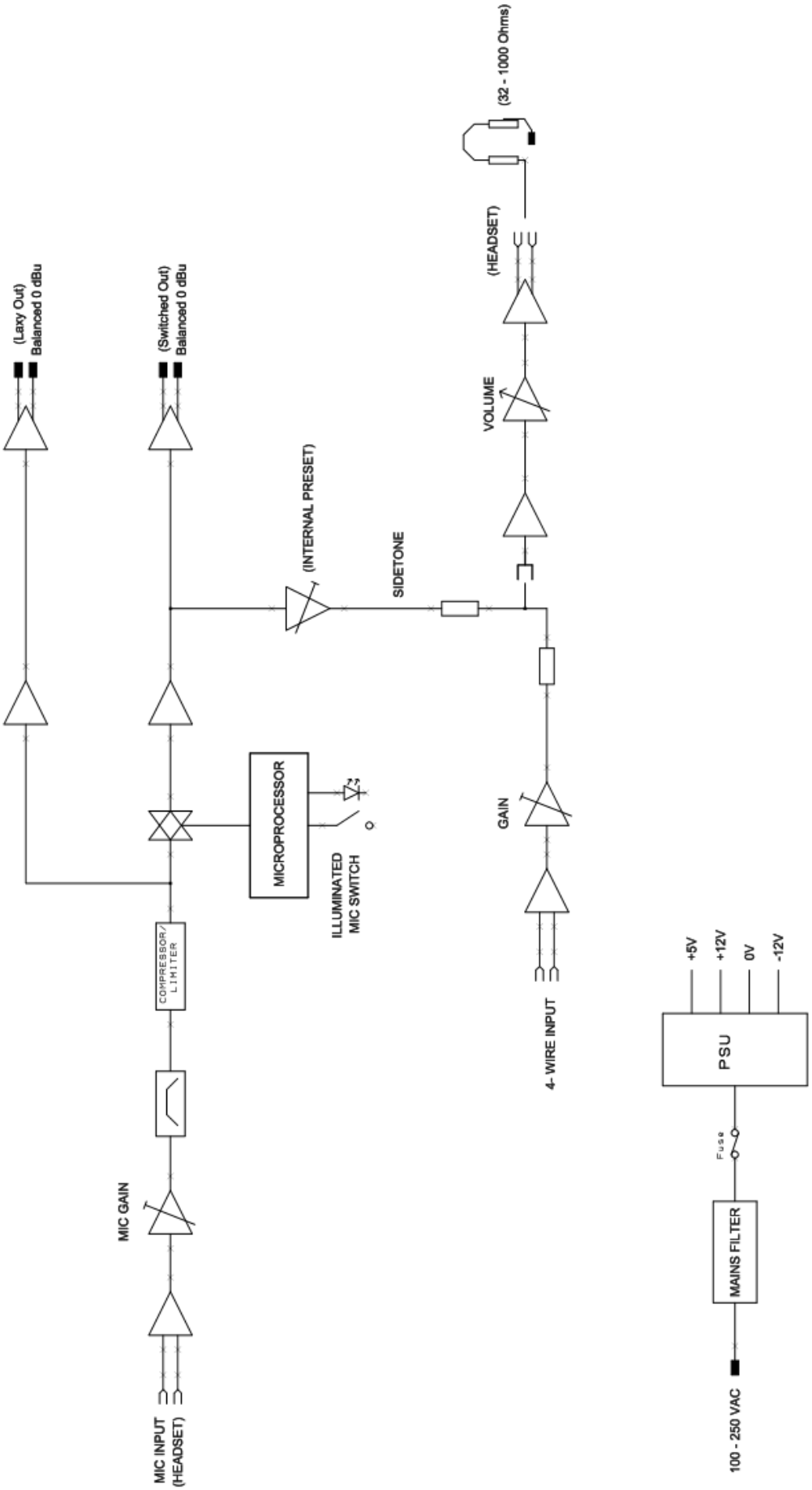
6. Four Wire in gain pot

This trimmer pot adjusts the input gain level of the Four Wire in XLR input.

7. Four Wire in

This XLR input is routed to the headphone output.

SIMPLIFIED BLOCK DIAGRAM



SWITCH OPERATION

Four separate modes are available for the mic on switch. The selected configuration will be stored and reloaded when the GS-FW0035 is powered on.

To change the operation of the switch:

1. Turn the device off
2. Hold down the mic on button
3. Turn the device on
4. Release the mic on button
5. Press and release the mic on button until the desired mode is selected (As indicated by the mic on LED)
6. Remove power, setting will be saved for next power up

Program modes

The following configurations are available for the mic on button

1) Program toggle on/off
    a. Indications of mode during mode change
        i. PGM LED will flash once

2) Program momentary off (cough)
    a. Indication of mode during mode change
        i. PGM LED will flash twice

3) Program momentary on mode
    a. Indication of mode during mode change
        i. PGM LED will flash three times

4) Program momentary off “intelligent lever key”
    a. Indication of mode during mode change
        i. PGM LED will flash four times

INTERNAL SIDETONE ADJUST

There is an internal trimmer pot for adjusting the level of the microphone that is sent to the local headphone output (sidetone).

To access the trimmer pot the lid of the unit must be removed.

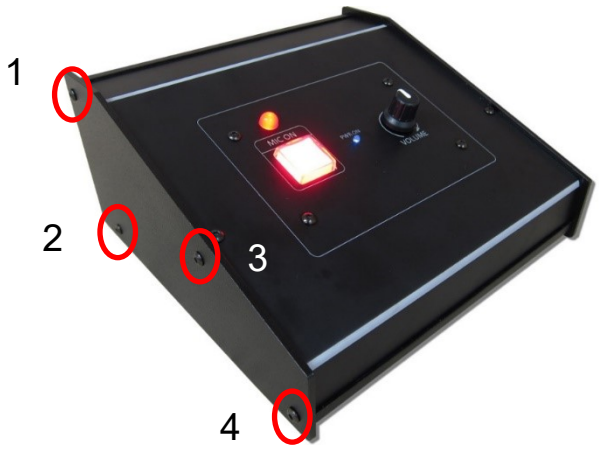
Equipment needed

1x M3 screwdriver

Please ensure that the unit is powered off and disconnected from mains before starting this procedure

Procedure

To disassemble the GS-FW0035, remove screws 1, 2, 3 and 4 from the left-hand side panel of the unit, and then the equivalent screw 3 on the opposite right side panel of the unit.



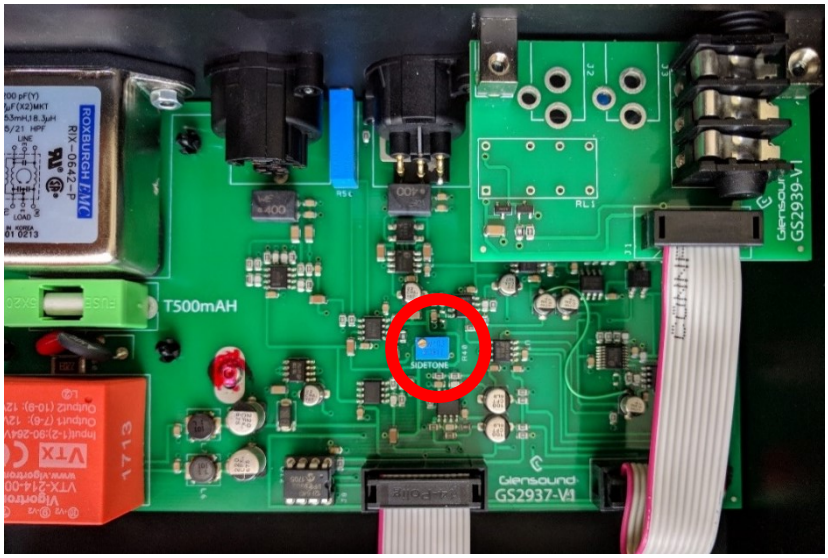
Remove the left side panel.

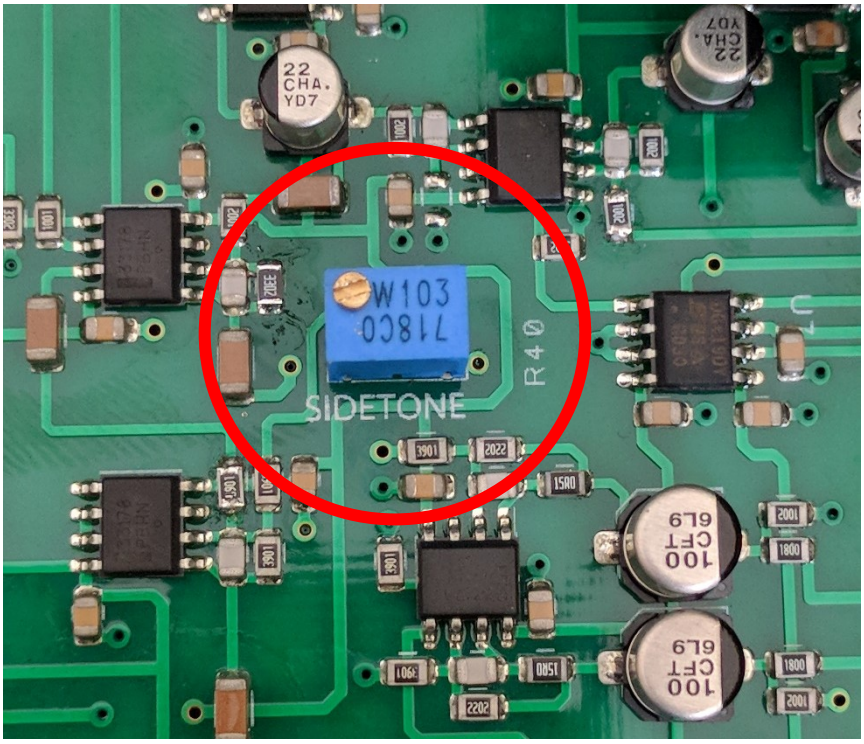
The front panel can now be removed by sliding it towards the left of the unit, whilst prying it backwards and away from the top and bottom ridges.

Take care when removing the front panel as not to tear or damage the ribbon cables that connect the front panel board to the motherboard.

The front panel can be placed down resting forwards, so there is no need to disconnect any cables.

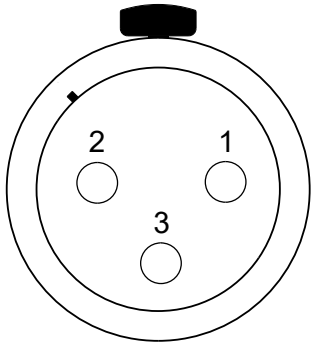
You may now access the trimmer pot shown in the 2 pictures below.


T500mAH
SIDETONE
GS2937-V1
GS2939-V1


22
CHA.
YD7
W103
SIDETONE
R40

WIRING INFORMATION

XLR & JACK Wiring



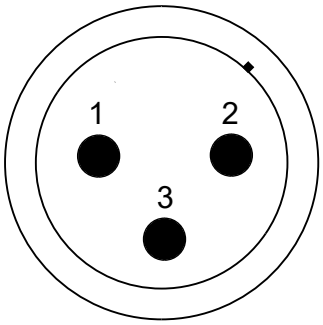
XLR SOCKET (FEMALE)

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