A 4928

A 4931

A 4932

Operating Manual
A 4928 Line Output Box
A 4931 Mic/Line Preamp Wallplate
A 4932 Mic/Line Preamp Box

OVERVIEW

The Redback**®** A 4931 remote mic/line pre-amp wallplate or the Redback**®** A 4932 remote mic/line pre-amp box accepts either a microphone or line input for conversion to a balanced high level signal. Mic input is via a balanced XLR whilst the line input is via 2 x RCA sockets or 3.5mm jack.

The 3V output signal is carried via Cat5e cable (suitable for distribution up to 300m without interference) to the Redback**®** A 4928 Line Output box which provides a balanced high or low level output and an unbalanced Aux output signal to be fed into an amplifier.

Power is supplied via the included 24V Plugpack which is connected to the Redback**®** A 4928 Line Output box. Power for the Redback**®** A 4931 mic/line pre-amp wallplate or the Redback**®** A 4932 mic/line pre-amp box is provided through the Cat5e cable connection.

The Redback**®** A 4928 has a 24V DC switched output (limited to 120mA current draw) which activates when the VOX output of the Redback**®** A 4931 or Redback**®** A 4932 is active.

CONNECTIONS

Figures 1 and 2 illustrate typical wiring configurations for the Redback® A 4928 Line Out Box connections to the Redback® A 4931 mic/line pre-amp wallplate or Redback® A 4932 mic/line pre-amp box. Connection is made via a Cat5e/6 cable with a maximum run distance of 300 metres. The audio from the A 4931 or A 4932 is fed down the cable to the A 4928 and power is fed back from the A 4928 to power the A 4931 or A 4932. The A 4928 is powered by the supplied 24V DC plugpack or by any other 24V DC source which can be connected to the 24V DC input euro block.

There are two available outputs from the A 4928 which include a Line level Unbalanced output and a Balanced output which can be either Mic or Line level depending on the DIP switch 2 setting of the A 4928 (see DIP Switch settings).
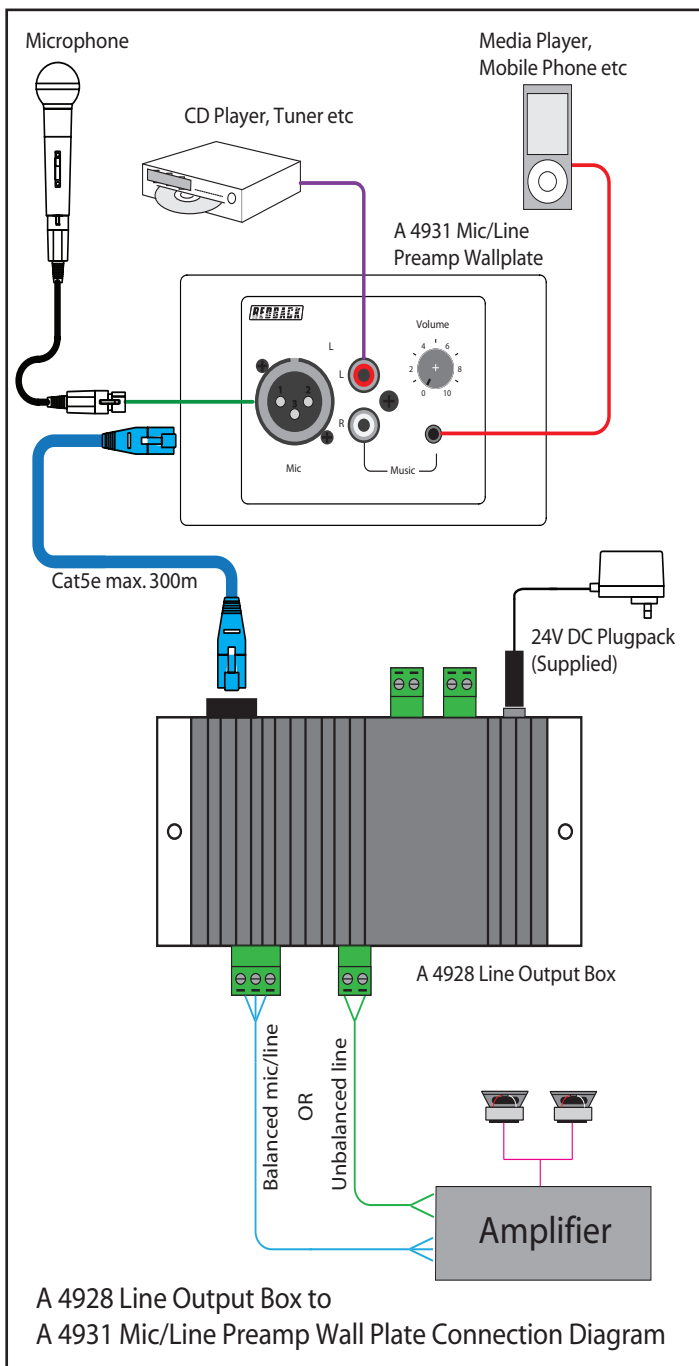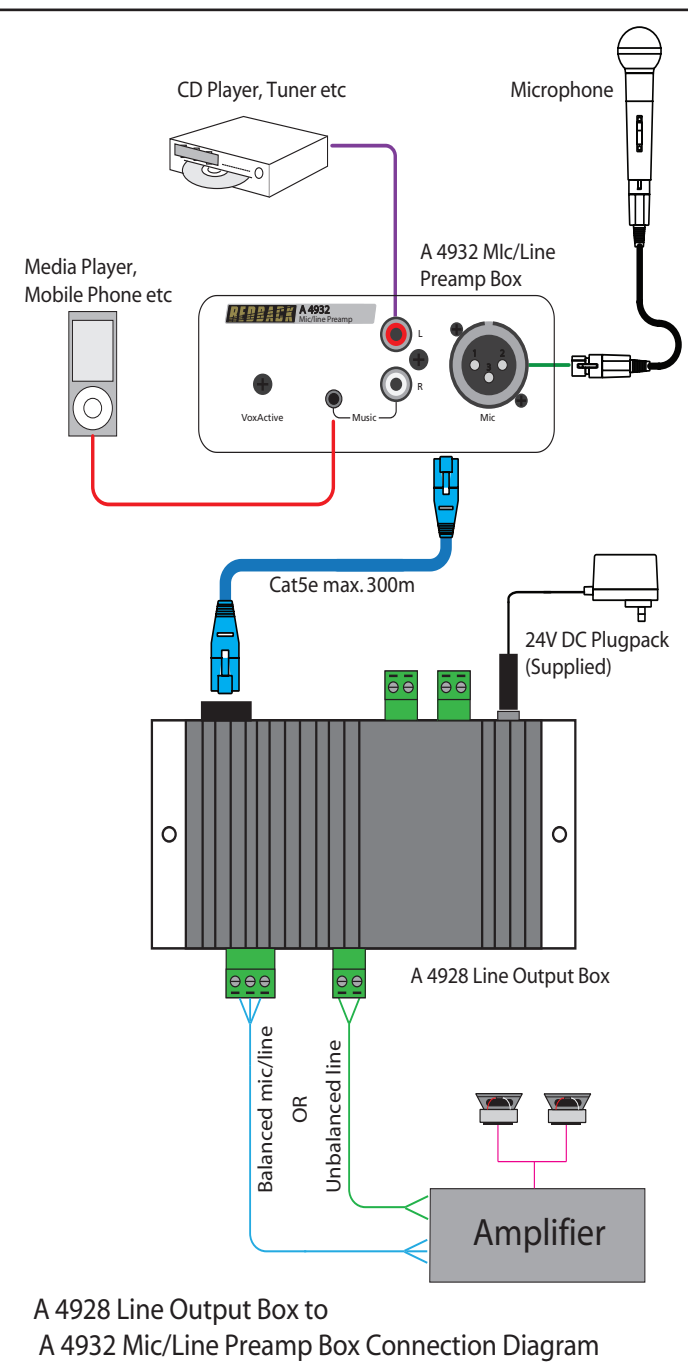

Fig 1.

A 4928 Line Output Box to A 4931 Mic/Line Preamp Wall Plate Connection Diagram

Fig 2.

A 4928 Line Output Box to A 4932 Mic/Line Preamp Box Connection Diagram

24V DC SWITCHED OUTPUT

The Redback® A 4928 has a 24V DC switched output (limited to 120mA current draw) which activates when the VOX circuit of the Redback® A 4931 or Redback® A 4932 is active.

Note 1: DIP switch 1 of the A 4928 must be set to ON to enable the switched output option.
Note 2: DIP switch 3 of the A 4931 or A 4932 must also be set to ON to enable the VOX output.

A 4928 DIP SWITCH SETTINGS

DIP SW 1: ON - 24V DC switched output option active
DIP SW 2 (Balanced Output): ON - High Level output, OFF - Low level output
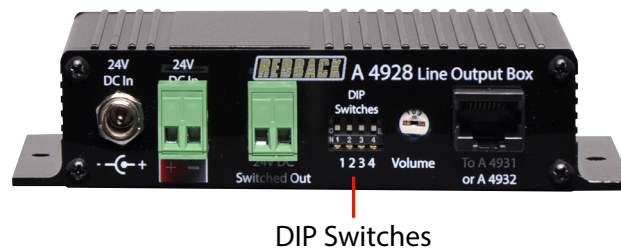DIP SW 3: Not Used
DIP SW 4: Not Used

DIP Switches

Fig 3 - A 4928 DIP switches location.

A 4931 and A 4932 DIP SWITCH SETTINGS

The A 4931 and A 4932 have a set of DIP switches on the rear which determine how the audio is output.
The DIP switches are labelled 1) VOX BOTH, 2) VOX ENABLE, 3) VOX OUTPUT.

When the A 4931 or A 4932 is used with the A 4928 there are four possible audio output options.
1) Mixed OUT (No switched Output) - The audio from the A 4931/32 microphone input and the line and/or music inputs are mixed together and output to the A 4928. The VOX Output is inactive.
DIP Switches set as follows: 1-OFF ,2-OFF, 3-OFF
2) Mixed OUT (With switched Output) - The audio from the A 4931/32 microphone input and the line and/or music inputs are mixed together and output to the A 4928. The VOX Output (and hence the Switched Output) is enabled.
DIP Switches set as follows: 1-ON ,2-OFF, 3-ON
3) Mic Priority Over Line/Music Inputs (No switched Output) The A 4931/32 microphone input has VOX priority over the line and music inputs. I.e. the audio from the line/Music inputs will be over ridden by the MIc input when a microphone is used. The VOX Output is inactive.
DIP Switches set as follows: 1-OFF ,2-ON, 3-OFF.
4) Mic Priority Over Line/Music Inputs (With switched Output) The A 4931/32 microphone input has VOX priority over the line and music inputs. I.e. the audio from the line/Music inputs will be over ridden by the MIc input when a microphone is used. The VOX Output (and hence the Switched Output) is enabled.
DIP Switches set as follows: 1-OFF ,2-ON, 3-ON.
The VOX sensitivity of the microphone is adjusted by the trimpot on the rear of the A 4931 and A 4932 labelled "VOX" or "VOX sensitivity".
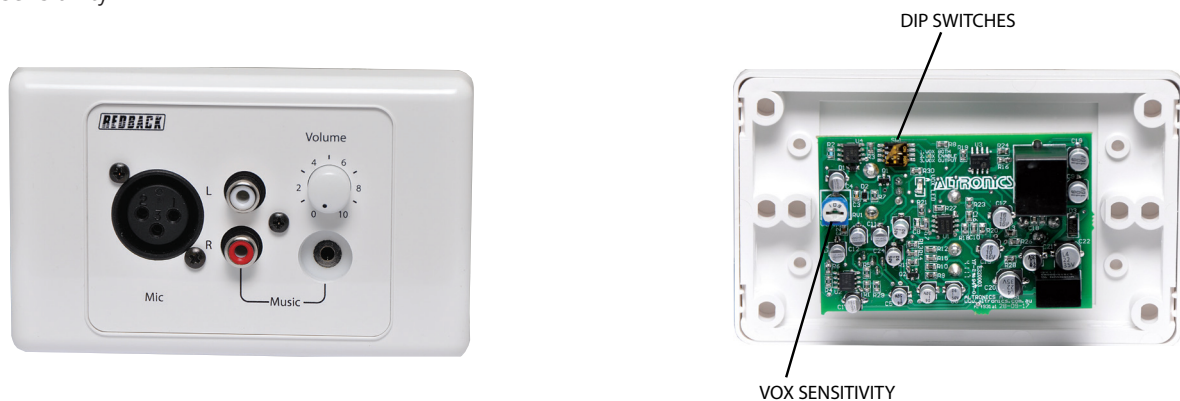

DIP SWITCHES

VOX SENSITIVITY

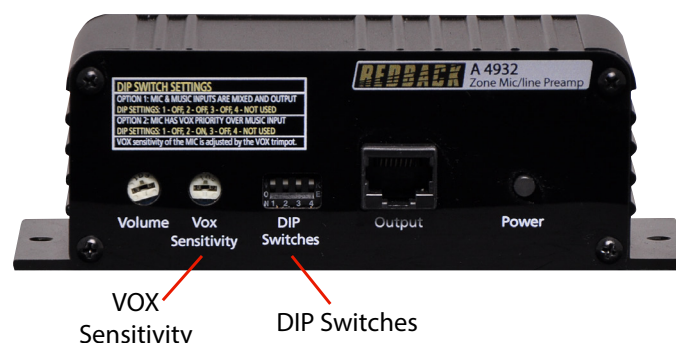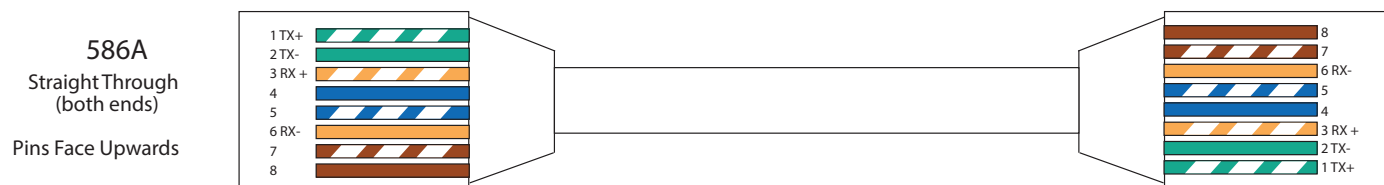**Fig 4 - A 4931 DIP switches and VOX sensitivity adjustment location.**

VOX Sensitivity

DIP Switches

Fig 5 - A 4932 DIP switches and VOX sensitivity adjustment location.

RJ45 cabling configuration for system components (586A 'Straight through')

System components are connected using "pin to pin" configuration RJ45 data cabling as shown below. When installing ensure all connections are verified with a LAN cable tester before switching any system component on.

Failure to follow the correct wiring configuration may result in damage to system components.

586A
Straight Through
(both ends)

Pins Face Upwards

| 1 TX+ |
| 2 TX- |
| 3 RX + |
| 4 |
| 5 |
| 6 RX- |
| 7 |
| 8 |

| 8 |
| 7 |
| 6 RX- |
| 5 |
| 4 |
| 3 RX + |
| 2 TX- |
| 1 TX+ |

Troubleshooting

NO Power (Power LED does not illuminate):

Check power supply DC jack is 2.1mm and not 2.5mm size.
Check polarity of 24V DC supply.

A 4931 Wallplate or A 4932 not operating correctly:

Check RJ45 cabling is correct.

A 4928 Specifications

UNBALANCED OUTPUT SENSITIVITY: 1V
BALANCED OUTPUT SENSITIVITY: 3mV/1V
INPUT CONNECTORS: RJ45 8P8C
        24V DC Power :..............2.1mm JACK (centre +ve)
                    .... Euroblock terminals
OUTPUT CONNECTORS:
        Unbalanced AUX Out: .... Euroblock terminals
        Balanced Output: .... Euroblock terminals
        24V DC Switched Out: .... Euroblock terminals
        AUDIO :   ....3 pin XLR balanced
DIMENSIONS:≈...................................... 130W x 95D x 28H
WEIGHT: ≈.. 0.2 kg

A 4931 Specifications

INPUT MIC LEVEL SENSITIVITY:.......................................3mV
INPUT LINE LEVEL SENSITIVITY:..1V
MUSIC INPUT LEVEL SENSITIVITY: 200mV
OUTPUT CONNECTOR: RJ45 8P8C
INPUT CONNECTORS:
        AUDIO :   ....3 pin XLR balanced
                    .... 2 x RCA
                    .... 3.5mm JACK

A 4932 Specifications

INPUT MIC LEVEL SENSITIVITY:......................................3mV
INPUT LINE LEVEL SENSITIVITY:..1V
MUSIC INPUT LEVEL SENSITIVITY: 200mV
OUTPUT CONNECTOR: RJ45 8P8C
INPUT CONNECTORS:
        AUDIO :   ....3 pin XLR balanced
                    .... 2 x RCA
                    .... 3.5mm JACK
DIMENSIONS:≈...................................... 133W x 65D x 44H
WEIGHT: ≈.. 0.2 kg

All Australian made Redback products are covered by a 10 year warranty.

Should a product become faulty please contact us to obtain a return authorisation number. Please ensure you have all the relevant documentation on hand. We do not accept unauthorised returns. Proof of purchase is required so please retain your invoice.