



AIS-800 Modification Users Guide

ver-1.0 10/26/99
ais-800

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Functions and Interfacing

The AIS-800 modification allows for a multitude of interfacing options

- 1 CH-1 (main) two-wire Clearcom or RTS mode
- 2 CH-1 (main) four-wire
- 3 CH-2 (ISO) two-wire Clearcom or RTS mode
- 4 CH-2 (ISO) internal only
- 5 CH-2 (ISO) four-wire
- 6 Function 3 four-wire out balanced audio

To accommodate the options, additional connectors were needed.

- 1 DB-9 female for the 3 channel logic contact closures
- 2 Four pin XLR female for the CH-1 (main) and CH-2 (ISO) four-wire in and out

Front panel indicators

The channel status LED will illuminate to 50% red when carrier is detected.

The LED will illuminate to 100% red when a CH-1 (Main) tone is detected

The LED will illuminate to 100% green when a CH-2 (ISO) tone is detected

The LED will illuminate to 100% amber when a CH-3 (AUX) tone is detected

AUX Re-transmit ON/OFF.

Internal DIP-Switch allows the AUX talk audio signal from the beltacks to be heard by the other wireless users.

AUX BUSS output level adjustment

AUX BUSS LVL PCB mounted internal control adjusts the level of the AUX BUSS output. It is located on the PCB attached to the rear panel and next to the AUX BUSS connector.





Rear Panel Layout

Rear Panel Controls

Main I/C IN

Adjusts the level of the Main (CH-A or 1) wired system being transmitted to the wireless users. Effects both the two-wire and four-wire connections

Main I/C OUT

Adjusts the level of the wireless users talking to the wired (CH-A or 1) system
Effects both the two-wire and four-wire connections

Main I/C NULL

Sets the desired amount of wireless users talking into their own earpieces. This function will also effect the way each wireless user hears the other wireless users when pressing the MAIN button on the beltpack.

ISO I/C IN

Adjusts the level of the Main (CH-A or 1) wired system being transmitted to the wireless users. Effects both the two-wire and four-wire connections

ISO I/C OUT

Adjusts the level of the wireless users talking to the wired (CH-A or 1) system
Effects both the two-wire and four-wire connections

ISO I/C NULL

Sets the desired amount of wireless users talking into their own earpieces. This function will also effect the way each wireless user hears the other wireless users when pressing the ISO button on the beltpack.



TW intercom interface MODE switch.

With the switch in the out position, the connectors and circuitry are able to properly connect to a Clear-Com wired system. Each of the two TW-Intercom connectors are set to accept both a Channel-A and a Channel-B connection. Main is on Channel-A, ISO is on Channel-B.

When the switch is depressed, the connectors and interface circuitry are able to properly connect to an RTS (Telex) TW wired system. Each of the two TW-Intercom connectors are set to accept an RTS connection with the other connector wired as a loop.

In addition to re-mapping the connector pins, the switch also allows for gain differences between the two system types.

Rear Panel Connections

Four-Pin female XLR connector. MAIN 4-WIRE input and output

Four-Pin female XLR connector. ISO 4-WIRE input and output

D-SUB 9-pin female connects to the three logic contact closures



Connector Pin-out Detail

CN-2 DB-9 male

1	F1 N.O. Contact
2	F2 N.O. Contact
3	F3 N.O. Contact
4	
5	
6	F1 Common
7	F2 Common
8	F3 Common
9	

Four-Pin female XLR connector MAIN 4-WIRE input and output:

Pin-1 4w in LO
Pin-2 4w in HI
Pin-3 4w out LO
Pin-4 4w out HI

Four-Pin female XLR connector ISO 4-WIRE input and output:

Pin-1 4w in LO
Pin-2 4w in HI
Pin-3 4w out LO
Pin-4 4w out HI

TW-INTERCOM CONNECTION:

Female (CLEAR-COM Mode)
Pin-1 intercom ground
Pin-2 DC power in
Pin-3 Channel-A (MAIN) audio

Male (CLEAR-COM Mode)
Pin-1 intercom ground
Pin-2 DC power in
Pin-3 Channel-B (ISO audio)

Female (RTS Mode) Input
Pin-1 intercom ground
Pin-2 Channel-1 audio (MAIN) + 30vdc in
Pin-3 Channel-2 audio (ISO)

Male (RTS Mode) Loop
Pin-1 intercom ground
Pin-2 Channel-1 audio (MAIN) + 30vdc in
Pin-3 Channel-2 audio (ISO)



Specifications

Logic closures

500mA 30vdc relay form "A" contacts normally open

4-WIRE Output level +2dBv Clip

PL tone Frequencies

F1 (Main)	88.50Hz
F2 (ISO)	77.00Hz
F3 (AUX)	67.95Hz

