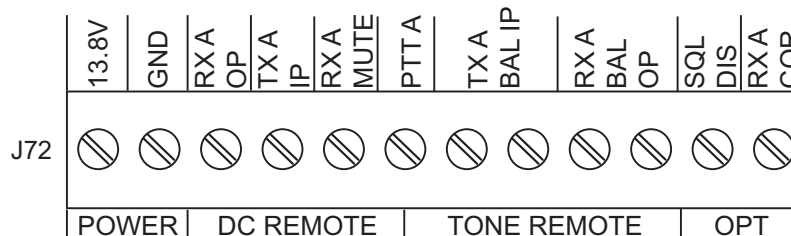# TN140 Remote Interface Connector (J72)

The remote interface connector J72 on the SR-39-1 subrack motherboard has silkscreen printing that can be misleading the way it is printed. The Remote Interface connector J72 is meant to be used **only for systems that include an AC-3E Audio Control Card or CI-BC-4E Base Controller** configured for auxiliary input / output connections.
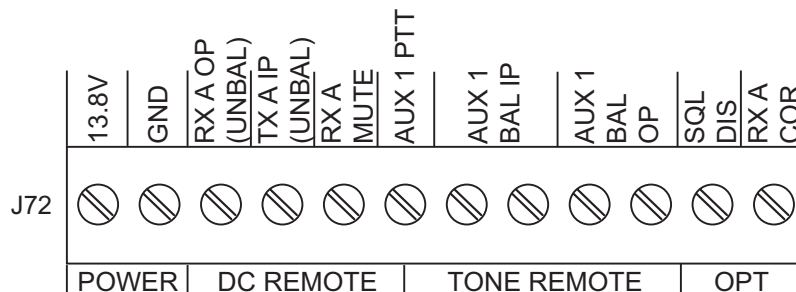
The remote interface connector is shown below:

REMOTE INTERFACE

| | 13.8V | GND | RX A OP | TX A IP | RX A MUTE | PTT A | | TX A BAL IP | | RX A BAL OP | | SQL DIS | RX A COR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J72 | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ |
| | POWER | | DC REMOTE | | | | TONE REMOTE | | | | | OPT | |

The remote interface connector would be more appropriately labelled as follows:

REMOTE INTERFACE

| | 13.8V | GND | RX A OP (UNBAL) | TX A IP (UNBAL) | RX A MUTE | AUX 1 PTT | | AUX 1 BAL IP | | AUX 1 BAL OP | | SQL DIS | RX A COR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J72 | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ | ⊘ |
| | POWER | | DC REMOTE | | | | TONE REMOTE | | | | | OPT | |

The following labels were changed:
RXA OP -> RXA OP (UNBAL) - This pin is an unbalanced output from the receiver (not recommended for connection)
TXA IP -> TXA IP (UNBAL) - This pin is an unbalanced input to the transmitter (not recommended for connection)
PTT A -> AUX 1 PTT - This pin connects to ALARM6 which is used for Axiliary 1 PTT K input on the controller.
TXA BAL IP -> AUX1 BAL IP - This pin connects to SPARE1 and SPARE2 for Auxiliary 1 balanced input on the controller.
RXA BAL OP -> AUX1 BAL OP - This pin connects to SPARE5 and SPARE6 for Auxiliary 1 balanced output on the controller.

For basic Tone Remote and DC Remote connections, use the following pins on the remote interface connector J72:
13.8V - Power
GND - Ground
AUX1 PTT - Auxiliary PTT input from Remote to Transmitter.
AUX1 BAL IP - Auxiliary audio input from Remote to Transmitter adjusted using R120 on the controller.
AUX1 BAL OP - Auxiliary audio output from Receiver to Remote adjusted using R13 on the controller.

AC-3E and CI-BC-4E base operation jumpers that need to be checked when using remote interface connector J72:
JU4A or X (installed) - audio path disable from RX A to TX A (can be removed for repeater operation).
JU56 (removed) - COR A to PTT A enable jumper (can be installed for repeater operation).
JU67A or X, JU68 (installed) - Auxiliary PTT enable jumpers.
AC-3E only - JU63B (removed) - COR A to PTT A hang timer enable (can be installed for repeater operation).