



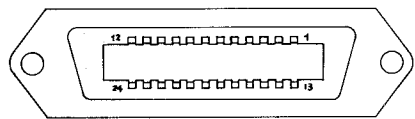
# IC-EX309 INTERFACE UNIT INSTRUCTION MANUAL

Thank you very much for purchasing our products.

The IC-EX309 is an interface unit that is required to connect the optional communication terminal (CT-10) with other ICOM products such as IC-751, IC-271A/E/H, IC-471A/E/H, or IC-R71A/E/D.

Please read all the instructions so that you can install it into the transceiver/receiver correctly to get maximum performance and full value from each set.

## CONNECTION OF EACH TERMINAL AND ITS FUNCTION



| Pin No. | Function                              | Pin No. | Function                               |
|---------|---------------------------------------|---------|--|
| 1       | Data bus D0 input/output              | 13      | Not used                               |
| 2       | Data bus D1 input/output              | 14      | Not used                               |
| 3       | Data bus D2 input/output              | 15      | Not used                               |
| 4       | Data bus D3 input/output              | 16      | Not used                               |
| 5       | Data bus D4 input/output              | 17      | Not used                               |
| 6       | Data bus D5 input/output              | 18      | Not used                               |
| 7       | Data bus D6 input/output              | 19      | Not used                               |
| 8       | Data bus D7 input/output              | 20      | Not used                               |
| 9       | Remote Control (controlling) RP input | 21      | Remote Control (controlling) WP input  |
| 10      | Remote Control (interrupt) SRQ input  | 22      | Remote Control (controlling) DAV input |
| 11      | Squelch SQLS output                   | 23      | Transmission Control SEND input        |
| 12      | 13.8V DC Output                       | 24      | Ground                                 |

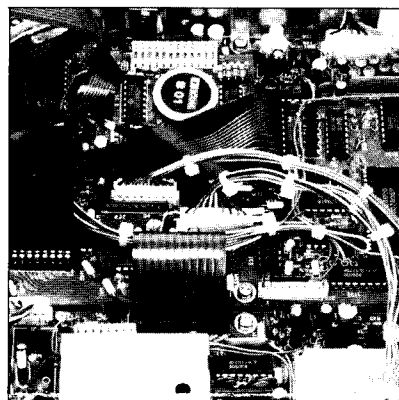
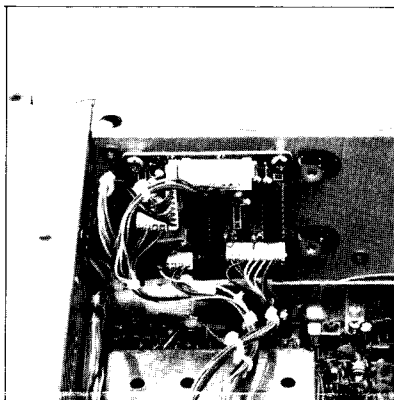
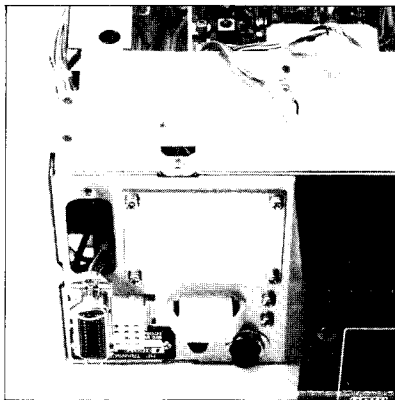
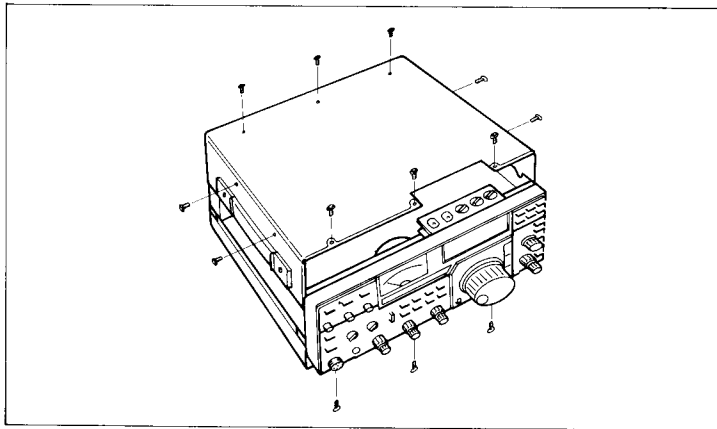
- **D0 ~ D7**  
Data bus that functions at bi-directional 8 bit parallel. It is set at TTL level.
- **RP (Read Pulse)**  
Controlling data is sent from the transceiver/receiver to the remote controller when this line is at H level (+5V). It is usually at L level.
- **SRQ (Service Request)**  
Line shows that data is being exchanged between the transceiver/receiver and the controller, while the data is being exchanged, this line is L level (0V). Usually, the line is H level (+5V).
- **13.8V**  
Power supply for the controller. Maximum current is 100mA.
- **SQLS (Squelch Signal)**  
Terminal for a signal that automatically stops the frequency scanning. Voltage is +8V when the squelch is closed, and 0V when it is opened.
- **WP (Write Pulse)**  
Controlling data are sent from the remote controller to the transceiver/receiver when this line is at H level (+5V). It is usually at L level (0V).
- **DAV (Data Valid)**  
This line shows data has been received. It is valid at L level (0V).
- **SEND**  
When this line is grounded, the transceiver changes to in transmit mode.

## INSTALLATION PROCEDURE

\* For installation to IC-R71, refer to the Instruction Manual of the IC-R71 receiver.

### ● Installation to IC-751

- 1) Remove the top and bottom covers.
- 2) Remove the plate attached to the rear panel and run the cables inward. The connector should be installed with the screws that were used to attach the plate.
- 3) Install the connector onto where specified, and connect the cables from the connector to the unit.
- 4) Plug the cables into J10 and J15 of the LOGIC unit.
- 5) Replace the top and bottom covers.



### ● Installation to IC-271A/E/H or IC-471A/E/H

- 1) Remove the top and bottom covers.
- 2) Remove the plate attached to the rear panel and pass the cables inward onto the bottom side. The connector is to be attached with the supplied screws.
- 3) Install the unit onto where it is specified and connect the cables from the connector.
- 4) Plug the cables from the unit into J1 and J3 of the LOGIC unit.
- 5) Replace the top and bottom covers.

