

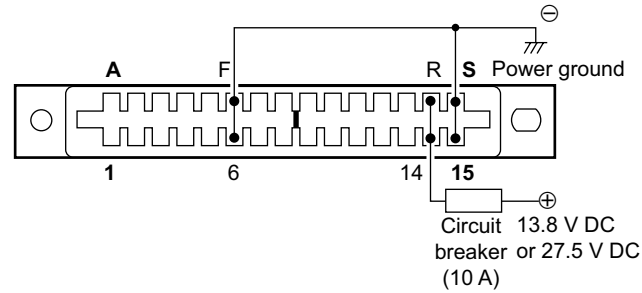


## 8 CONNECTING THE CABLES FOR CARD EDGE CONNECTOR (MBA-3)

### ◇ Power cable wiring

Use 2 pairs of #18 AWG wire for the power and power connections.

#### Front view



#### • Circuit breaker

To prevent physical damage, a 10 A circuit breaker **MUST** be installed in the DC power line in the aircraft. Install the circuit breaker in the aircraft breaker panel or instrument panel to ensure easy access during flight.

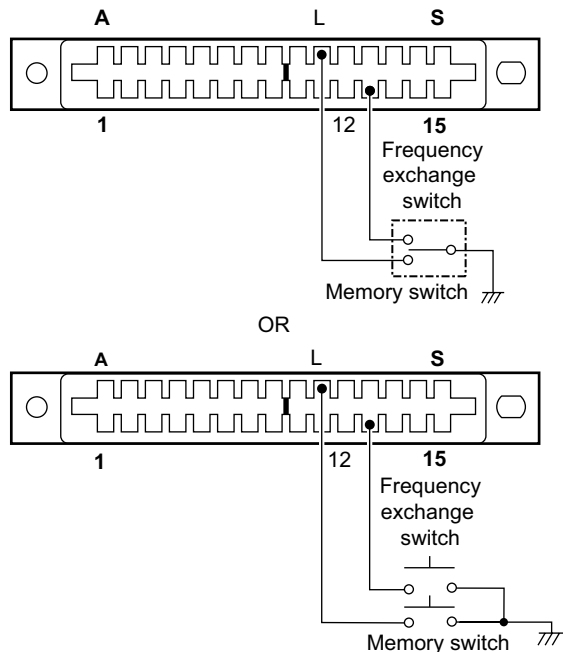
#### • Power Ground

Connect the transceiver power ground to the aircraft ground.

### ◇ Yoke-mounted memory and frequency exchange switches

For the yoke-mounted memory and frequency exchange switches, use a two-position spring loaded rocker switch or 2 separate momentary push switches.

#### Front view



### ◇ Transmit/receive interlock connections

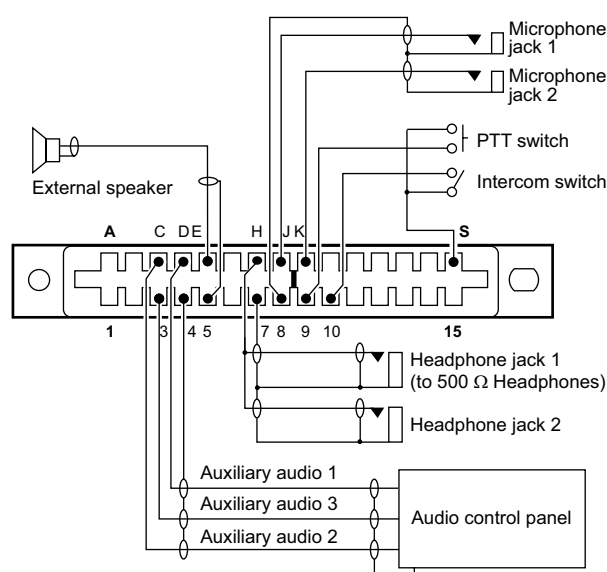
When 2 transceivers are installed, connect pin N to the other transceiver's PTT line, and connect pin 9 to the other transceiver's interlock line to prevent both transceivers from simultaneously transmitting.

However, when 2 transceivers are installed through a dual audio panel, the connections are not necessary.

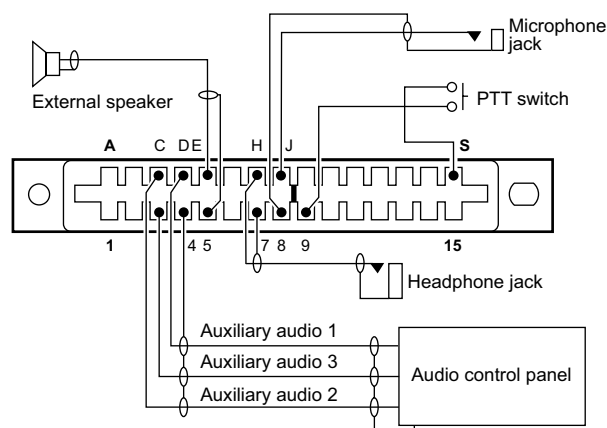
### ◇ Audio line connection

Use #24 AWG wire for the connections.

- Connecting 2 headsets to the intercom



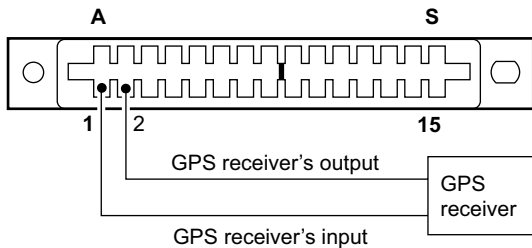
- Connecting 1 headset



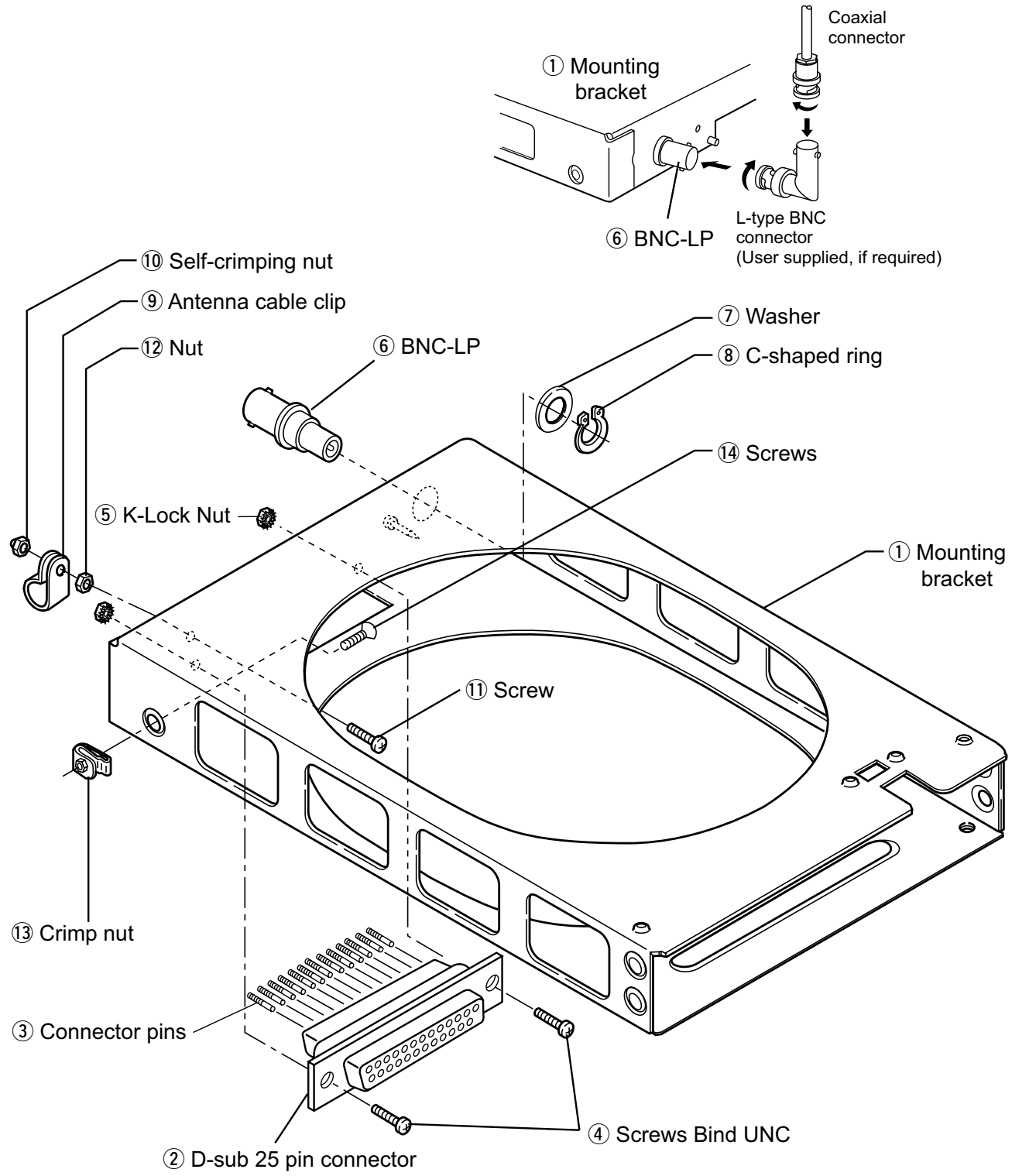
### ◇ GPS receiver connection

Connect the GPS receiver's input terminal to the pin 1, and output terminal to pin 2.

#### Front view



## 9 MOUNTING BRACKET ASSEMBLY



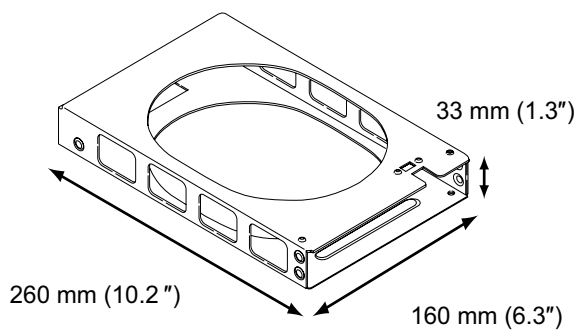
## 10 MARKING A MOUNTING HOLE

### ◇ Notes for making the mounting hole

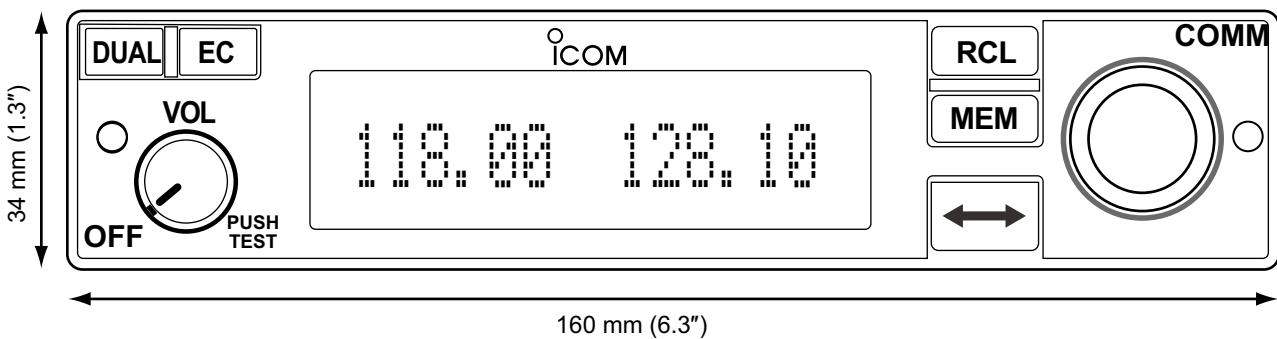
The transceiver can be mounted securely in the supplied mounting bracket. Remember to allow adequate space for installation of cables and connectors. When installing 2 or more transceivers in a stack, the mounting bracket should be 1.3 mm (0.05") apart.

The mounting bracket has 0.6 mm (0.024") dimples in the top, bottom, and both sides for proper spacing. Mark and cut the mounting holes. To support the mounting bracket, the rear mounting bosses should be attached to the airframe.

### ◇ Mounting bracket dimensions



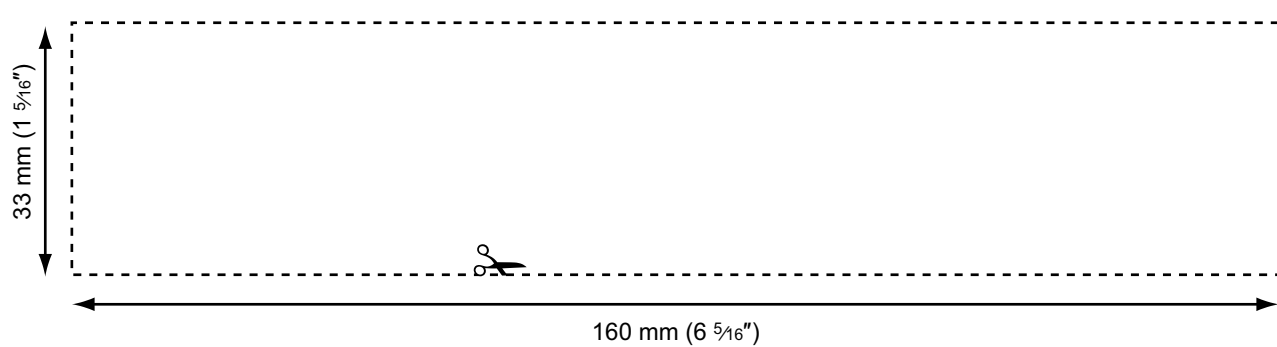
### ◇ Front panel dimensions



Allow space for the front panel as shown above.

### ◇ Template

Cut out dimensions for the mounting bracket as follows.



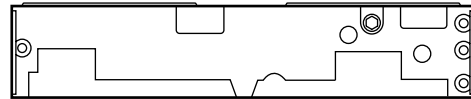
## 11 MOUNTING TO THE BRACKET

### ◇ Transceiver installation

1. Remove the front panel from the transceiver's main unit.
  - Use a 3/32" allen driver.
  - Carefully disconnect the cable from the front panel. (Fig. 1)
2. Insert a 3/32" allen driver into the lock screw and rotate the driver counterclockwise until the metal catch touches the back of the lock chassis. (Fig. 2)

**CAUTION:** Make sure that the cable between the transceiver and front panel is securely connected. The transceiver may not function properly when loose or when a wrong connection is made. Improper cable connection can cause damage and result in severe non-warranty repair.

#### Main unit front view



3. Insert the main unit (transceiver) into the mounting bracket. (Fig. 3)
4. Turn the lock screw clockwise until the main unit (transceiver) is fixed to the bracket. (Fig. 4)
5. Connect the cable. (Fig. 5)
6. Attach the front panel and tighten the allen screws. (Fig. 5)

### ◇ Transceiver removal

The transceiver can be easily removed from the mounting bracket, if required.

1. Remove the front panel from the transceiver's main unit.
  - Use a 3/32" allen driver.
  - Carefully disconnect the cable from the front panel.
2. Insert a 3/32" allen driver into the lock screw and rotate the driver counterclockwise until the metal catch touches the back of the lock chassis.
3. Slowly pull the transceiver out from the mounting bracket.
4. Connect the cable to the front panel.
5. Attach the front panel and tighten the allen screws.

Fig. 1

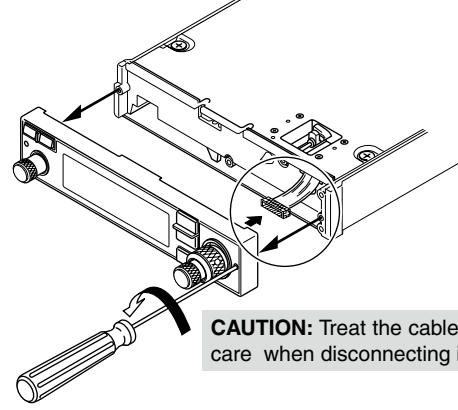


Fig. 2

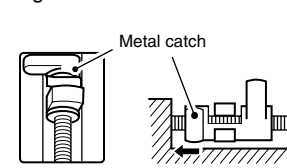


Fig. 3

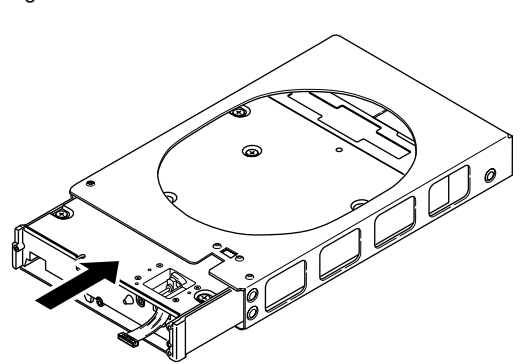


Fig. 4

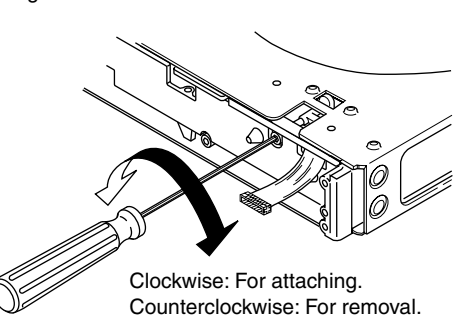
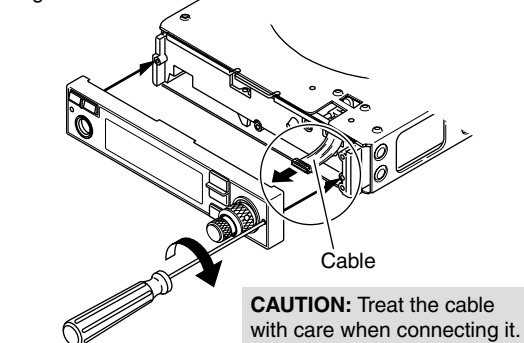


Fig. 5



## 12 OPERATION CHECK

Check the following points after transceiver installation.

- Polarity of the power supply.
- **NO** interference caused to other equipment.
- **NO** noise or interference from other equipment.

- VSWR is less than 2.5:1.
- Communication capability on both the highest and lowest communication frequencies, if possible.

Icom Inc.

1-1-32 Kamiminami, Hirano-ku, Osaka 547-0003, Japan

Printed on recycled paper with soy ink.

Count on us!

A-7210D-2EX-3  
Printed in Japan  
© 2015-2017 Icom Inc.