

## **A2-15xx**

# **EQUIPMENT INSTALLATION**

### **DSC-6A** (Refer to Installation Manual, DSC-6/6A)

The DSC-6A has been mounted and wired into the console. Only the antenna needs to be installed. A label is attached to the DSC-6A front panel to show whether it was setup for an active or passive antenna.

#### **Passive Antenna**

1. When a passive antenna is used it must be impedance matched to 50 ohm cable, for connection to the DSC-6A.
2. If necessary disassemble the DSC-6A and change the jumper on the RCVR board from active to passive (see Pg 3-7 of the DSC-6/6A Installation Manual).
3. When reinstalling DSC-6A in the console, be sure to attach the cables to the correct ports (see Pg 2-1 of the DSC-6/6A Installation Manual).

#### **Active Antenna**

1. Install the preamp (FAX-5 coupler). Connect a 2.6m whip or 2 to 3 meter long wire to the preamp (see Pg S-4 of the DSC-6/6A Installation Manual).
2. Ground the preamp to the mounting mast.
3. If necessary disassemble the DSC-6A and change the jumper on the RCVR board from passive to active (see Pg 3-7 of the DSC-6/6A Installation Manual).
4. When reinstalling DSC-6A in the console, be sure to attach the cables to the correct ports (see Pg 2-1 of the DSC-6/6A Installation Manual).

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# **EQUIPMENT INSTALLATION**

**FM-8500** (Refer to Installation Manual, VHF Radiotelephone, FM-8500)

### **Transceiver**

There is one FM-8500 in the standard console configuration.

1. Mount the transceiver bracket on top of the console using the provided 1/4"-20 rivet nuts. (see Pg 3-4, Top Panel of A2 Console).
2. Screw the knob bolts with washers into the transceiver unit.
3. Set the transceiver unit into the mounting bracket and tighten the knob bolts.
4. Make a power cable using the supplied connector (000-503-281). Install from the transceiver 24VDC port to TB2 in the console (see Pg 3-3, A2 Panel Power Connections).
5. Make a NMEA cable using the supplied connector (000-111-537). Connect from the NMEA port on the transceiver to the navigator. (Refer to the Installation Manual, FM-8500)
6. Attach a ground strap from the transceiver ground stud to the console or ship's ground system.
7. Mount the handset hanger and connect to the HANDSET port on the transceiver.

### **Antenna**

Two standard marine VHF antennas are necessary for both FM-8500's. One antenna is the main TX/RX antenna while the second is the channel 70 RX antenna for the DSC receiver.

1. Mount both VHF antennas. Make sure that they are separated vertically to prevent the TX antenna from interfering with the channel 70 RX antenna.
2. Install the cables and connect the transmit antenna to the ANT port and the receive antenna to the CH 70 ANT port on the transceiver.

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# **EQUIPMENT INSTALLATION**

**FS-1562** [Refer to Installation Manual, FS-1562-15(150W), FS-1562-25(250W)]

### **Transceiver**

1. The FS-1562 Transceiver is mounted and pre-wired to interface with the standard equipment supplied as part of the console. To complete this portion of the install, the Antenna, Antenna Coupler and, in the case of the FS-1562/25, the PA-2500 must be installed.

### **Antenna**

1. The antenna is to be provided by the Dealer. This antenna should be 7 to 30 meters in length and be mounted as clear of obstructions as possible. When considering the mounting location of the antenna, be sure to allow space for mounting the antenna coupler.

### **Antenna Coupler** (AT-1560-15 or AT-1560-25)

1. Mount the antenna coupler as close to the antenna as possible. The provided coupler can be mounted horizontally or vertically depending on the location (see Pgs 1-3 through 1-6 of the FS-1562 Installation Manual).
2. Connect the antenna wire from the antenna to the insulator at the top of the coupler. Keeping the length as short as possible.
3. Fasten the supplied ground strap to the connection provided at the base of the antenna coupler. Make certain this connection is brazed or welded to the ships hull or ground system. The exposed ground strap should be painted or coated with a material to prevent rust.
4. Remove antenna coupler top housing by removing the 8 housing screws

### **Antenna Coupler FS-1562/15** (150W)

5. Install the control cable (000-130-484) from the antenna coupler to the transceiver, located in the console. Attach the control cable to TB3, in the antenna coupler, and connect to the COUPLER port on the transceiver (see Pgs 2-4 through 2-6 of the FS-1562 Installation Manual).
6. Install the coax cable (000-113-360) from the antenna coupler to the transceiver. Attach the coax cable to TB1, in the antenna coupler and connect to the ANT port on the transceiver (see Pgs 2-4 through 2-6 of the FS-1562 Installation Manual).

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# **EQUIPMENT INSTALLATION**

### **FS-1562** (Continued)

#### **Antenna Coupler FS-1562/25** (250W)

7. Install the control cable (000-130-484) from the antenna coupler to the transceiver, located in the console. Attach the control cable to TB3, in the antenna coupler, and connect to the COUPLER port on the transceiver (see Pgs 2-4 through 2-6 of the FS-1562 Installation Manual).
8. Install the coax cable (000-113-360) from the antenna coupler to the PA-2500. Attach the coax cable to TB1, in the antenna coupler and connect to the ANT port on the PA-2500 (see Pgs 2-4 through 2-6 of the FS-1562 Installation Manual).

#### **Antenna Coupler** (AT-1560-15 or AT-1560-25)

9. Reinstall antenna coupler housing using only a couple of the provided screws. This will allow easier access when testing the unit later in the install.

#### **PA-2500** (FS-1562/25)

1. Mount the PA-2500 as close as possible to the console. Allow sufficient ventilation for the internally mounted fans.
2. Connect the coax cable from the antenna coupler to the ANT port on the PA-2500.
3. Install and connect the HPA control cable (000-134-198) from the HPA port on the transceiver to the HPA port on the PA-2500.
4. Install and connect the coax cable (000-134-199) from the PA IN port on the PA-2500 to the ANT port on the transceiver (see Pgs 2-4 through 2-6 of the FS-1562 Installation Manual).
5. Connect the supplied ground wire from the ship's ground to the ground stud on the PA-2500.
6. Install the power cable (000-113-347) from the 24VDC port on the PA-2500 to TB2 on the console Power Connection, A2 Panel.