



WIRELESS MONITOR OPERATOR STATION

Instruction for Installation of Radio Board and Antenna for YE-RF-RAD-##

WARNING

Service technicians bear responsibility for ensuring use of appropriate protective clothing and equipment. The chosen protective clothing and equipment must provide protection from potential hazards users may encounter while servicing equipment. Requirements for protective clothing and equipment are determined by the Authority Having Jurisdiction (AHJ).

NOTICE

Circuit boards are Electrostatic Sensitive Devices.
To prevent damage:

- Disconnect power before servicing equipment.
- Use proper grounding techniques.
- Touch unpainted, exposed metal on monitor or fire truck before removing and handling circuit boards.



YE-RF-##



YE-RF-##-D

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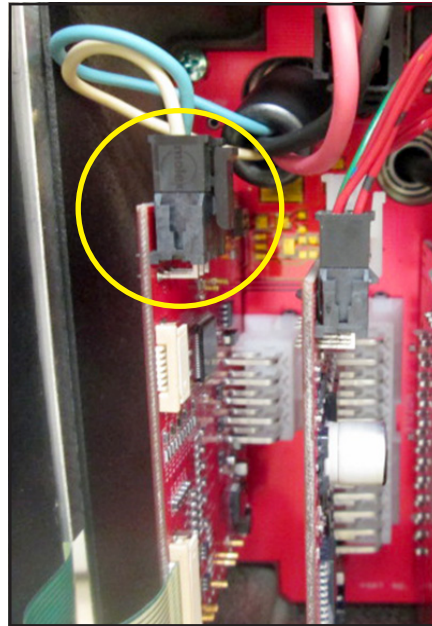
1.0 RADIO INSTALLATION



STEP 1

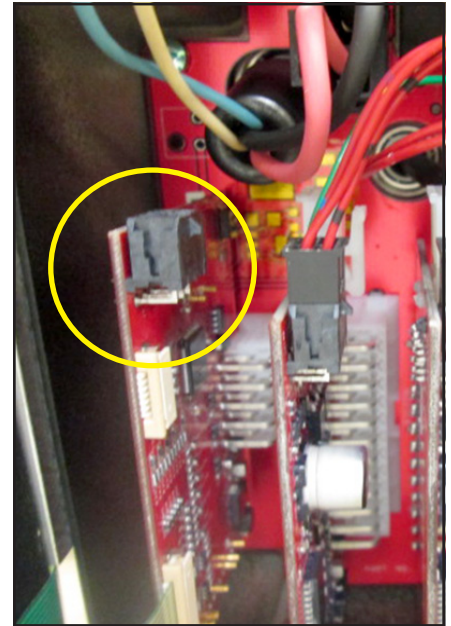
Unscrew the lid screws using 3mm hex key. Do not remove the screws from the lid.

Open the lid slowly as it is connected to the communication board by a flat cable. Securely support the lid during the installation process.



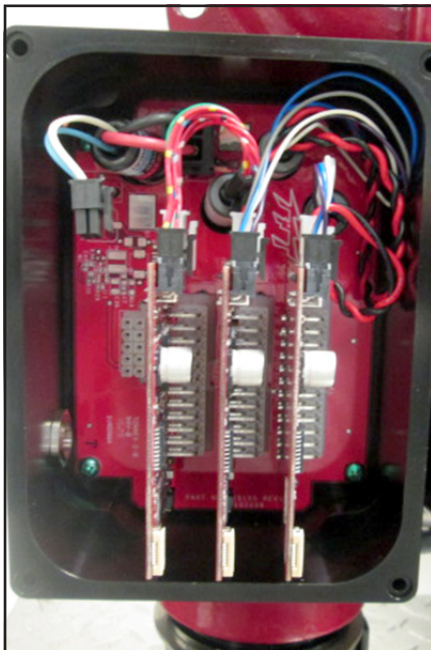
STEP 2

Locate the connector with blue & white wires on the communication board (far left).



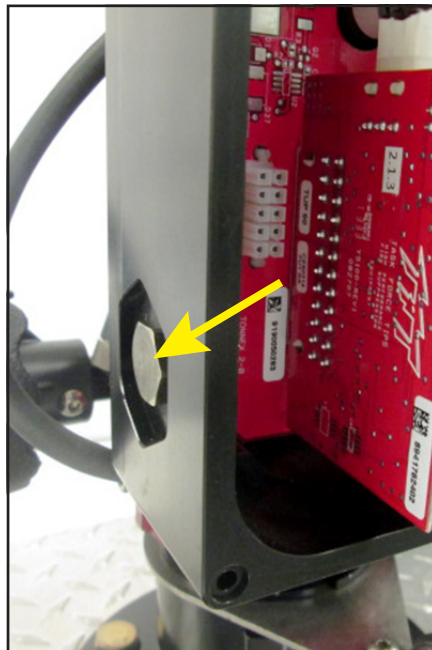
STEP 3

Unplug the connector with blue & white wires from the communication board.



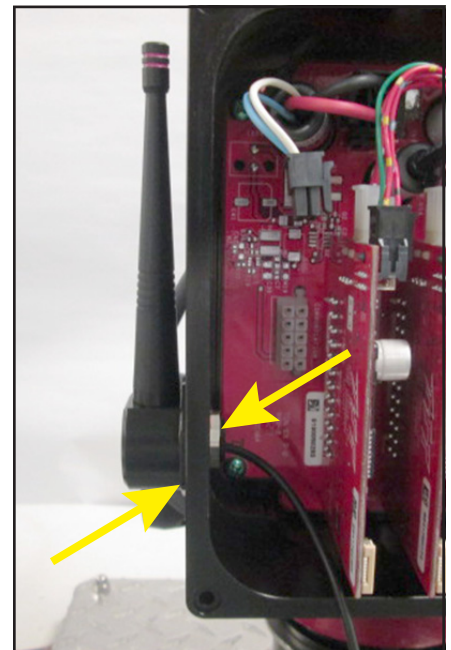
STEP 4

Remove the communication board by pulling it straight out.



STEP 5

Remove the nut and hex plug from the side of the monitor control box.

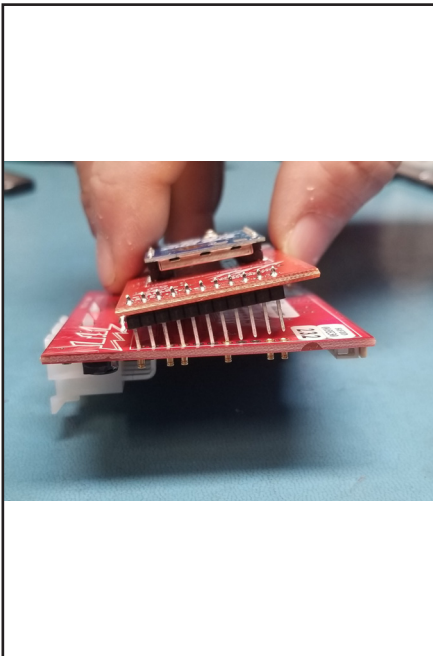


STEP 6

Ensure the O-ring is in the groove on the antenna base.

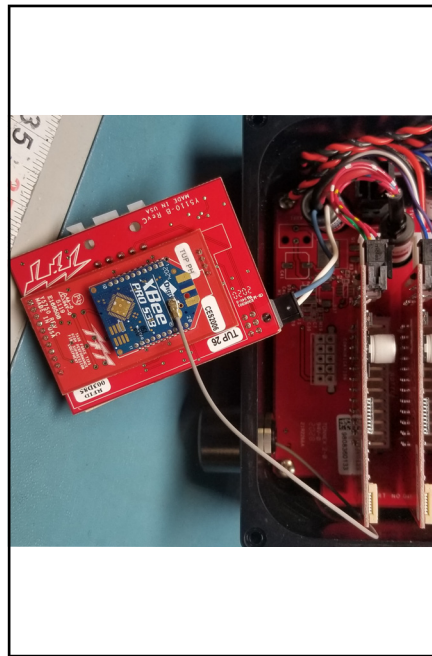
Apply Loctite® #271 (red) Thread Locking Adhesive to the threads on the antenna base.

Feed the antenna connector through the hole in the monitor control box and tighten the antenna base and nut.



STEP 7

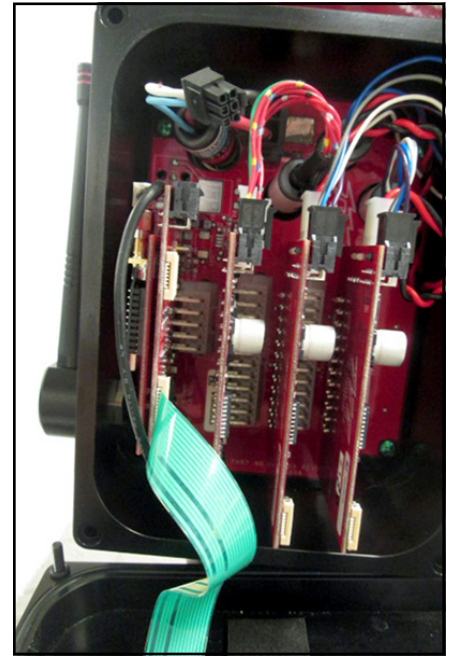
Connect the radio board to the communication board by aligning pin holes and pushing firmly.



STEP 8

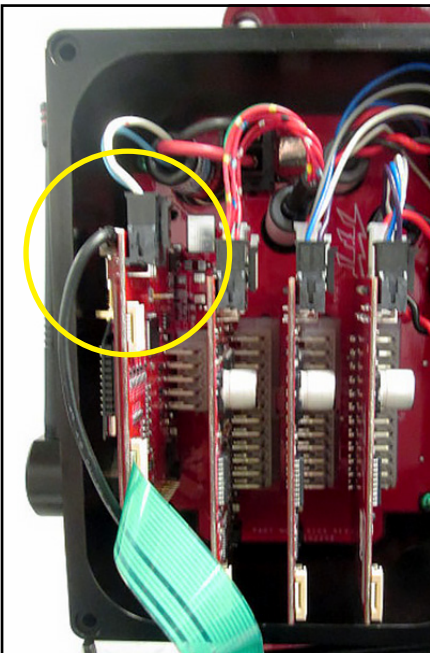
Attach the antenna connector to the radio board in the orientation shown.

- In some cases, a cable tie may need to be cut to attach the antenna.



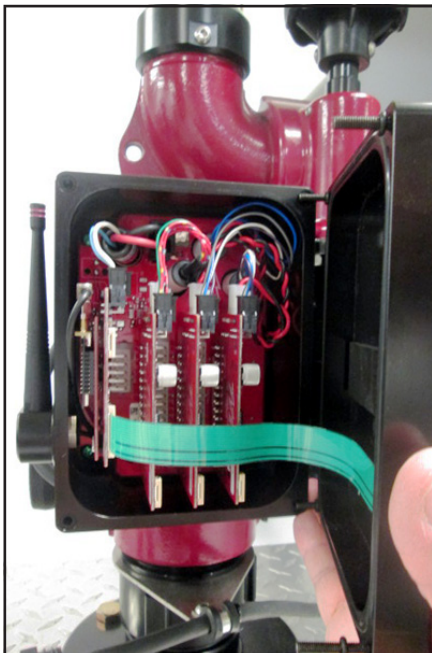
STEP 9

Reinstall the communication/radio board assembly into the monitor control box. Press straight in to seat firmly.



STEP 10

Plug the connector with the blue & white wires into the communication/radio board assembly.
Route antenna wire alongside the board.



STEP 11

Replace the lid. Be sure to guide the flat cable across the motor boards.



STEP 12

Firmly tighten screws equally in a criss-cross pattern.

NOTICE

- Do not pinch any wires between the lid and box.
- Ensure rubber O-ring seal for lid is clean, undamaged, and properly placed in the groove prior to securing the lid.

2.0 TEACHING ID CODE

NOTICE

- When the operator station and RC Monitor are purchased at the same time, the handheld unit will be pre-taught at factory.
- If the monitor is mounted to an RC Extend-A-Gun, ensure the Extend-A-Gun is in the raised position.
- Before teaching, monitor should be powered down.
- If multiple monitors are present, to avoid possible conflicts, apply power only to the monitor being taught.

Every monitor has a unique ID code that must be "taught or transferred" to the wireless handheld unit. This unique ID code allows multiple monitors to be used in one location without interference. Perform the following procedure to teach the handheld unit:

On Wireless Handheld Unit without Display:

1. Press POWER button to turn on electronics.
2. Press and hold both LEFT & RIGHT buttons simultaneously for 5 seconds.
3. Continue to hold the LEFT & RIGHT buttons and then press UP button for 2 seconds.
4. Release buttons.
5. After several seconds, the OSC & PARK lights will flash rapidly to indicate that the unit is in teach mode.

On Wireless Handheld Unit with Display:

1. Enter configuration mode by pressing center MENU button for 5 seconds
2. Press & release MENU button until RFID LEARN is displayed above LEFT button
3. Press & release RFID LEARN button. Radio will configure and wait for ID code

On Monitor Control Box:

1. Apply power to monitor.
2. Press and hold both LEFT & RIGHT buttons simultaneously for 5 seconds.
3. Continue to HOLD the LEFT & RIGHT buttons and then press UP button for 2 seconds.
4. Release buttons.
5. After several seconds, the OSC & PARK lights will flash rapidly to indicate that the unit is in teach mode.

ID code is automatically transferred to the wireless handheld unit.

1. OSC & PARK lights on handheld unit will stop flashing after ID code is transferred.
2. Press DOWN button on monitor control box to exit teach mode.
3. Cycle power off and back on to monitor.

In the event the handheld unit does not link up with the monitor, perform the following at the monitor operator station and the handheld unit:

1. Turn off power.
2. Press and hold DOWN button.
3. Apply power to the monitor, continue to hold DOWN button for 3 seconds.
4. Release DOWN button.
5. After green POWER light stops blinking, test wireless handheld unit.
6. Repeat above procedure for "Teaching ID Code".

3.0 CHANGING BATTERIES IN WIRELESS HANDHELD UNITS

1. Remove two (2) screws on backside of the handheld unit and slide bottom half of the rubber bumper off the enclosure.
2. Replace four (AA) batteries, Lithium Recommended, verifying that polarity is correct.
3. Replace the rubber bumper and retaining screws.

NOTICE

- Do not mix battery types.
- Properly dispose of old batteries.
- Do not puncture, incinerate, or disassemble batteries.

For questions or assistance with this procedure, contact the TFT Customer Service Team.

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