

INSTALLATION INSTRUCTIONS

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RF PREAMP ASSEMBLY ITI Part #60-236

OVERVIEW

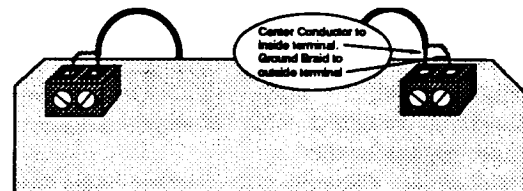
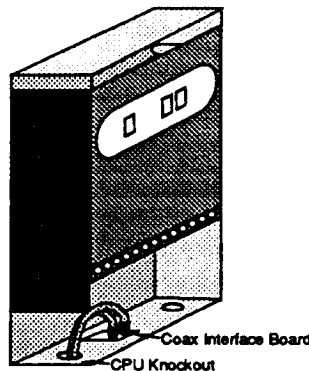
The optional RF Preamp assembly for the SX-V and CareTaker products, has been designed to improve the receiving ability of the CPU receiver for transmitters that have been installed on the fringe of the usable reception area by allowing the antennas to be placed in an area closer to these fringe transmitters. The RF Preamp can be installed with new installations or can be retrofitted to existing installations.

Included in the RF Preamp Assembly Kit are: 2 remote antenna assemblies with preamplifiers, 4 pre-bent antennas, and 1 coax interface board. Not included are the coax cables to interconnect the antenna assembly to the coax interface board (2 are required). These coax cables must be 75 ohms (RG59U) with F connectors and no more than 25 feet, such as Radio Shack part #15-1534.

- The antennas must be mounted vertically, 3 to 5 feet apart. Select a location for the antennas that allows for the antenna length, approximately 18 inches.
- When mounting the antennas, the tuning coils of the remote antenna assembly must be toward the top as the lower antenna is the ground plane.

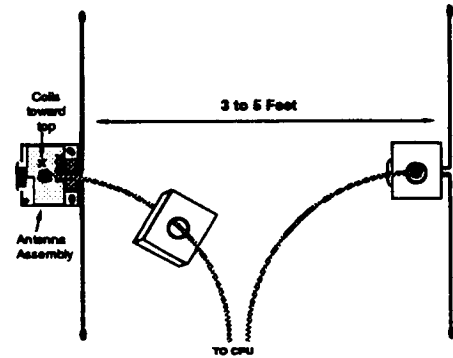
SX-V INSTALLATION PROCEDURE

1. It is important that you be free of static when working with the CPU cabinet door open. Be sure to discharge any static by first touching the cabinet and stay in contact with the cabinet with one hand whenever touching any component on the board.
2. Turn the master power switch OFF (down).
3. It is recommended that the coax cables be run through the lower, left knock-out in the CPU cabinet.
4. Attach the coax cables to the interface board.
5. Remove the adhesive pad covers and mount the interface board in a convenient location in the bottom of the CPU cabinet.
6. Pull the excess coax cable out of the CPU cabinet and use a tie wrap to provide strain relief to the coax cable.
7. Remove the CPU antennas and also the metal or nylon antenna bushings.
8. Totally remove the top two screws which hold the CPU board to the cabinet. Loosen the bottom two screws until the board will tilt forward enabling the antenna terminal connectors to clear the top of the cabinet.
9. Run the interface board's black coax up and behind the CPU board.
10. Insert the center connector of each black coax cable to the inside screw terminal and the ground braid to the outside connector. Tighten securely.
11. Carefully move the CPU board back in place. Reinstall the top screws in the CPU board and tighten the bottom screws.
12. Run the coax cable from the interface board to the proposed location of the remote antenna assembly. It is recommended that the cables be secured with cable ties or romex staples.
13. Check continuity of the coax cable using an ohmmeter.
14. Mount the base of the remote antenna assembly making sure that the tuning coils are toward the top. The second remote antenna assembly should be mounted between 3 and 5 feet from the first in order to maintain spatial diversity.



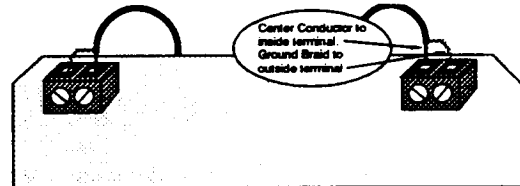
SX-V INSTALLATION PROCEDURE

15. Install the antennas and tighten the set screws.
16. Thread each coax cable through the hole in the remote assembly cases. Install and tighten the coax cables to the connectors.
17. Connect the **RED** wire from the interface board to **TERMINAL 10** on the CPU board.
18. Verify that the red LED's on the remote antenna assemblies are ON. Then place the covers on the assemblies.
19. The final step is to thoroughly re-test the system and all sensors in a Level 9 test.

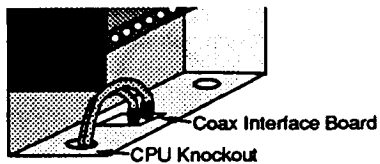


CARETAKER INSTALLATION PROCEDURE

1. It is important that you be free of static when working with the CPU cabinet door open. Be sure to discharge any static by first touching the cabinet and stay in contact with the cabinet with one hand whenever touching any component on the board.
2. Turn the sleep switch to "ON" (down).
3. It is recommended that the coax cables be run through the large rectangular cut-out on the back of the CPU cabinet, or through the lower, left knock out on the bottom of the CPU cabinet.
4. Attach the coax cables to the interface board.
5. Remove the adhesive pad covers and mount the interface board directly in the center of the bottom of the CPU cabinet. Centering the interface board this way insures that both of its coax lines will reach their respective terminations on the radio receiver.
6. Pull the excess coax cable out of the CPU cabinet and use a tie wrap to provide strain relief to the coax cable.
7. Remove the existing CPU antennas.
8. Loosen the 2 screws which secure the radio receiver and carefully remove the receiver from the CPU.
9. Run the interface board's black coax cables as follows:
 - a) One coax cable up the left side along the terminal strip
 - b) One coax cable up the right side along outside of back-up battery.
10. Insert the center connector of each black coax cable to the inside screw terminal and the ground braid to the outside terminals of the radio receiver. Tighten securely.



11. Carefully install the radio receiver board back in place.
12. Run the coax cable from the interface board to the proposed location of the remote antenna assembly. It is recommended that the cables be secured with cable ties or romex staples.
13. Check continuity of the coax cable using an ohmmeter.
14. Mount the base of the remote antenna assembly making sure that the tuning coils are toward the top. The second remote antenna assembly should be mounted between 3 and 5 feet from the first in order to maintain spatial diversity.
15. Install the antennas and tighten the set screws.
16. Thread each coax cable through the hole in the remote assembly cases. Install and tighten the coax cables to the connectors.
17. Connect the **RED** wire from the interface board to **TERMINAL A5** on the CPU board.
18. Verify that the red LED's on the remote antenna assemblies are ON. Then place the covers on the assemblies.
19. The final step is to thoroughly re-test the system and all sensors in a Level 9 test.



FCC NOTICE:
 This device complies with FCC Rules Part 15. Operation is subject to the following two conditions:
 1. this device may not cause harmful interference
 2. this device must accept any interference that may be received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Interactive Technologies Inc. can void the user's authority to operate the equipment.