PIEXX IC-EX310px
Installation Instructions

The PIEXX IC-EX310px is a physical and electrical replacement for the original ICOM IC-EX310 speech synthesizer.
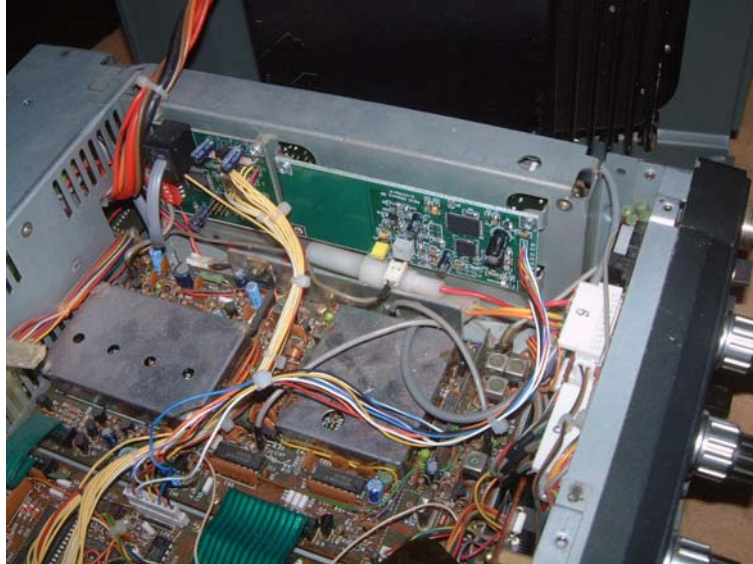
IC-EX310 px Installation

The IC-EX310px speech synthesizer module can be used in a wide range of Icom radios including the IC-751, IC-751A, R7000 and R71A. You should follow the installation instructions provided in your radios users manual.
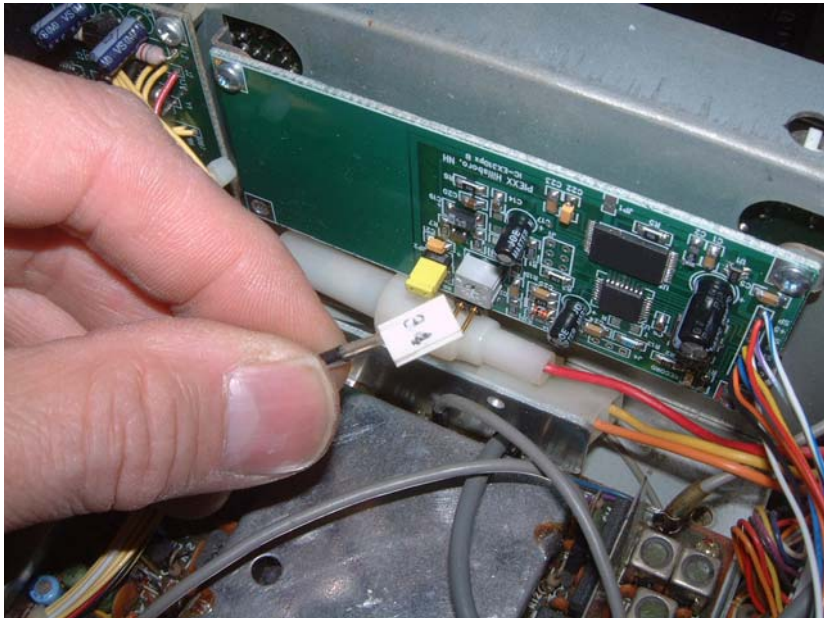
Use potentiometer R10 to adjust the volume of the voice to suit your preference. If the audio seems overly loud, as it may when installed in the R-71A receiver, remove jumper JP2 located next to the volume control potentiometer.
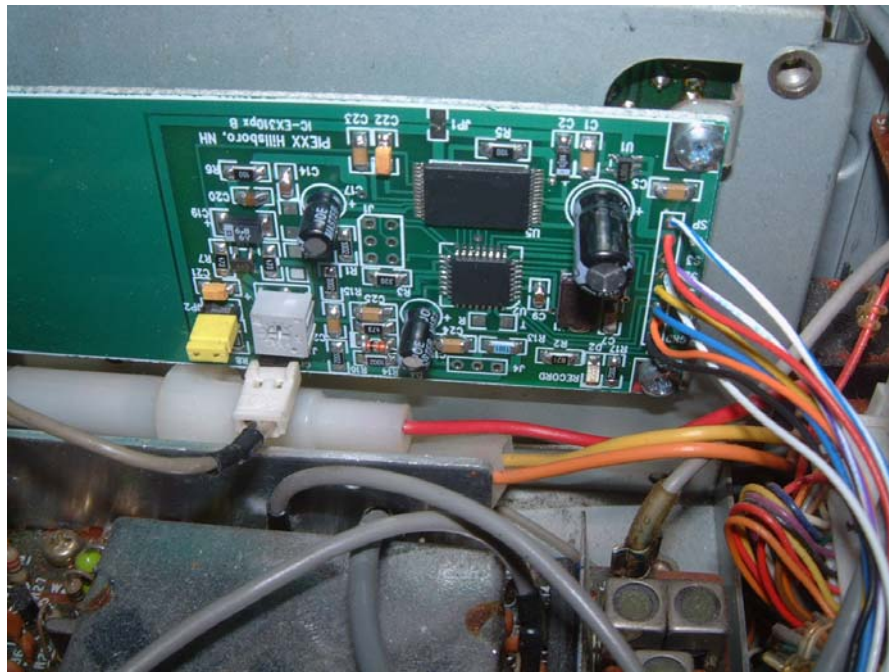
Installation in the IC-751 transceiver.

1. Remove the bottom cover of your transceiver.
2. Mount the IC-EX310px board on the right side of the radio on the stamped standoffs. Use the four provided screws.
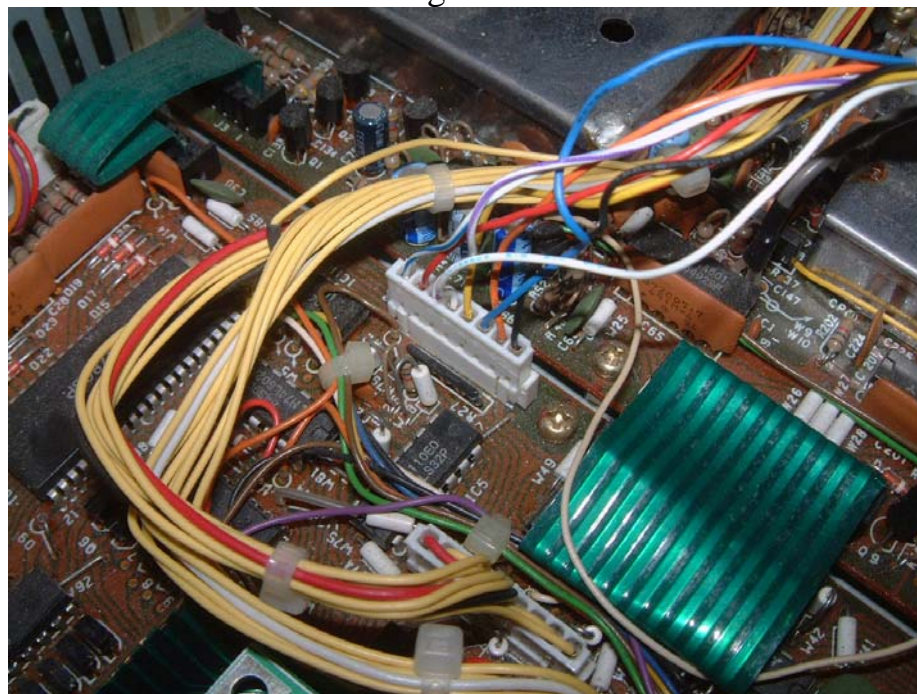

3. Locate the 2 pin cable, coming from the right rear of the radio, whose connector is marked 34. Install this plug on the 2-pin header marked J3 on the IC-EX310px board. Make sure to orient the connector so that the shield part of the cable attaches to the pin marked GND. When properly oriented, the 34 printed on the cable will not be visible.

4. Install the 8-pin cable, coming from the IC-EX310px board, onto the J12 connector on the IC-751 logic board.
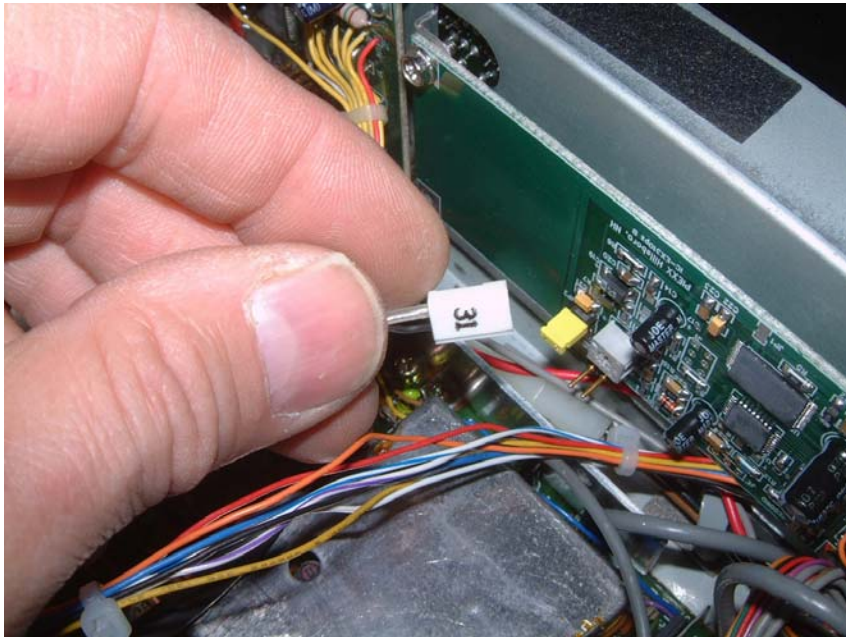

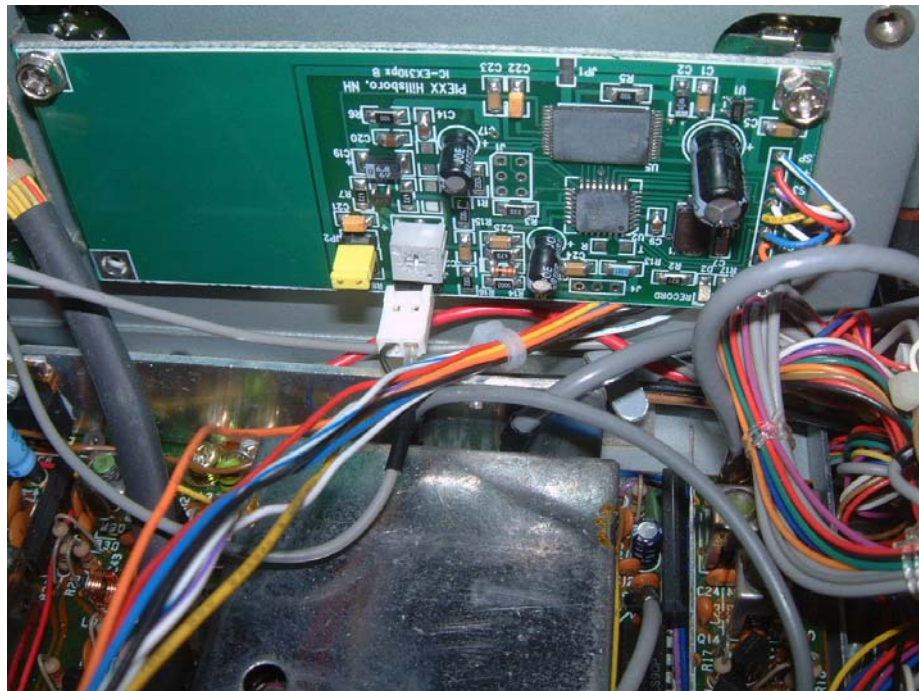5. Reinstall the bottom cover of your transceiver.

Installation in the IC-751A transceiver.

1. Remove the bottom cover of your transceiver.
2. Mount the IC-EX310px board on the right side of the radio on the stamped standoffs. Use the four provided screws.

3. Locate the 2 pin cable, coming from the right rear of the radio, whose connector is marked 31. Install this plug on the 2-pin header marked J3 on the IC-EX310px board. Make sure to orient the connector so that the shield part of the cable attaches to the pin marked GND. When properly oriented, the 31 printed on the cable will not be visible.

4. Install the 8 pin cable, coming from the IC-EX310px board, onto the J12 connector on the IC-751A logic board.
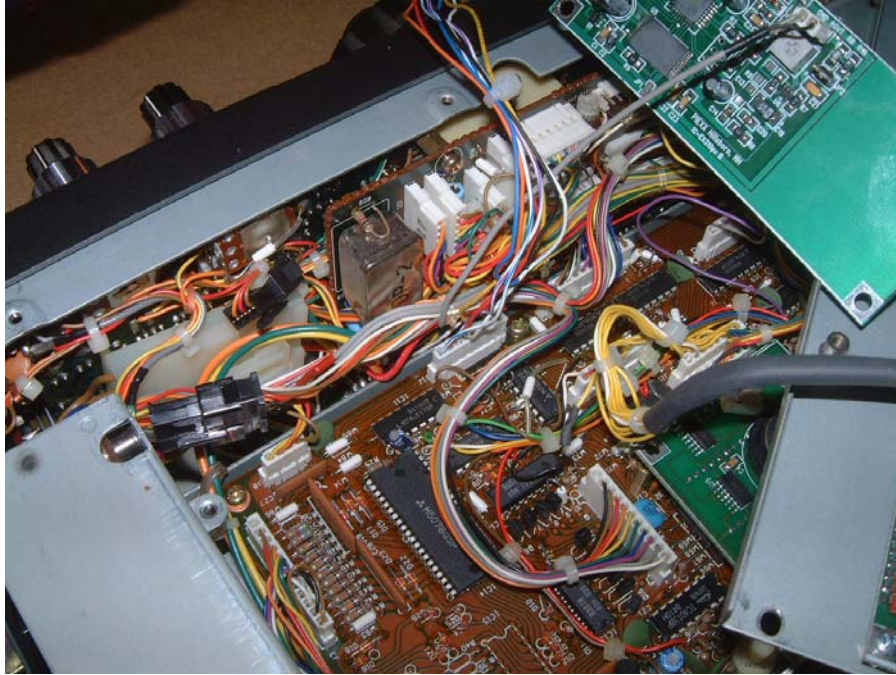

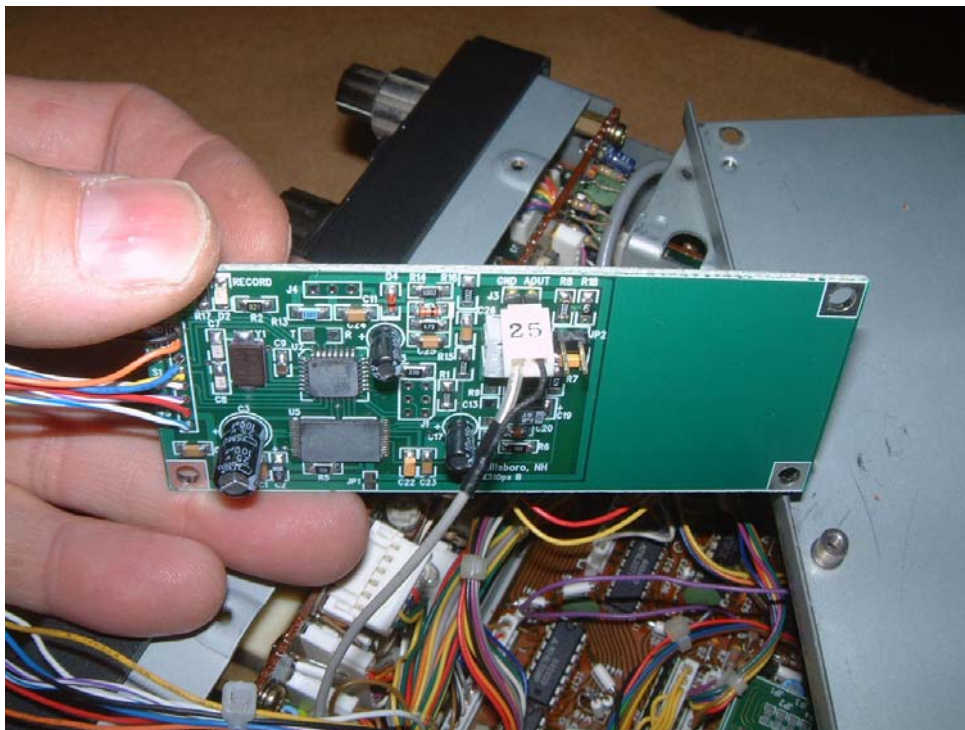5. Reinstall the bottom cover of your transceiver.

Installation in the R71A receiver.

1. Remove the bottom cover of the receiver.
2. Remove the mounting plate covering the Logic board, there are four screws securing it.
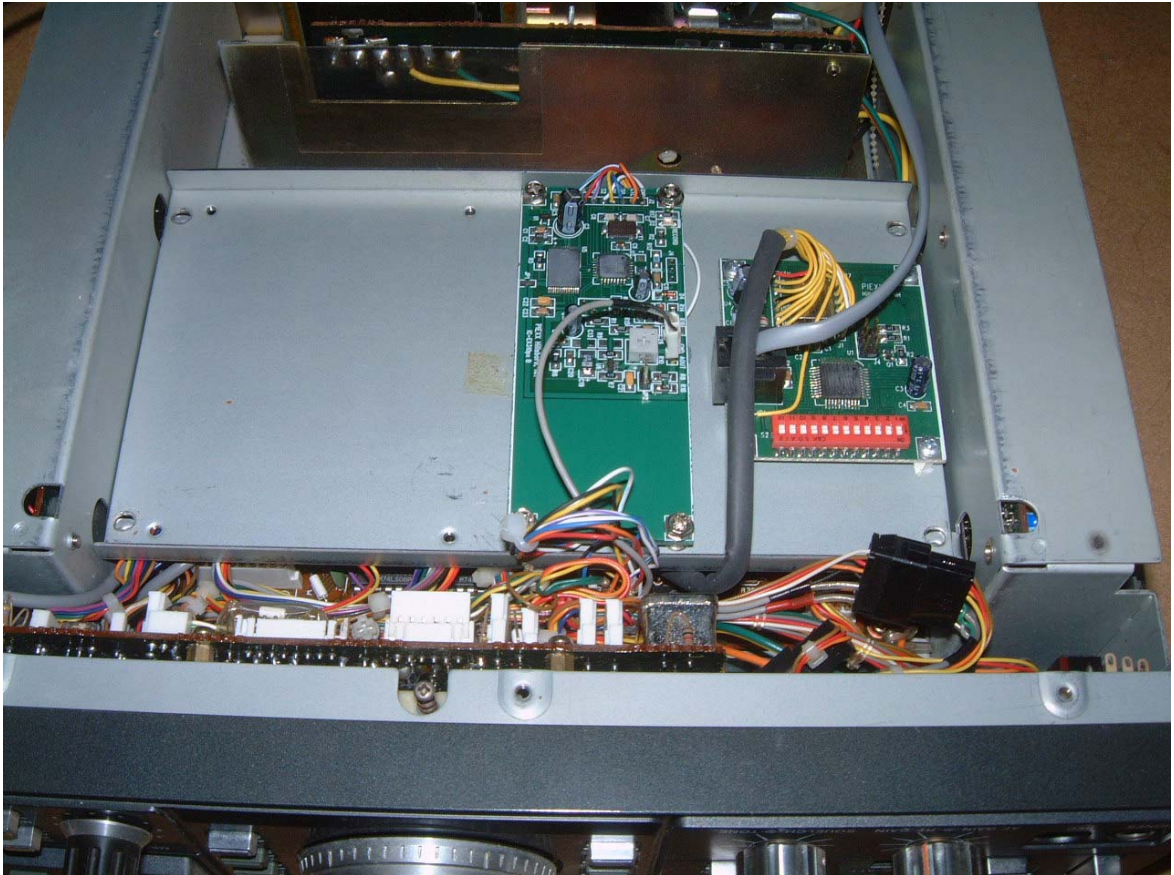
3. Install the 8 pin cable, coming from the IC-EX310px board, onto the J12 connector on the R71A logic board. The J12 connector is located on the front center of the logic board.

4. Locate the 2 pin cable, coming from the front of the radio, whose connector is marked 25. Install this plug on the 2-pin header marked J3 on the IC-EX310px board. Make sure to orient the connector so that the shield part of the cable attaches to the pin marked GND. When properly oriented, the 25 printed on the cable will be closes to the edge of the board..

5. Replace the Logic board cover plate, then mount the IC-EX310px board on the 4 standoffs located in the center of the mounting plate.

6. Reinstall the bottom cover of your receiver.