

Crystal Filter

YF-100 / YF-101

XF-455K-251-01

The 500-Hz YF-100 or 250-Hz XF-455K-251-01 crystal filter may be installed in the FT-890 for CW narrow reception, and the YF-101 2.6-kHz crystal filter may be installed for improved SSB and AM narrow receiver selectivity. The procedure involves removing the bottom cover, and requires a low-wattage soldering iron. Proper performance with the crystal filters depends on proper installation. If you are unsure of the procedures after reading the following, feel free to ask your Yaesu dealer for help.

Installation of IF Crystal Filter Options in the FT-890

- Turn the transceiver off, and disconnect all cables.
- Place the set upside-down on the work surface with the rear facing you, and remove the eight screws affixing the bottom cover (Figure 1). Then lift the bottom cover off.
- Disconnect the light-blue-banded coaxial cable from J2026 near the rear of the exposed RF Unit (#1 in Figure 2).
- Unplug the yellow-banded coaxial cable from J2024 near the rear corner of the RF Unit (#2 in Figure 2).
- Using a small sharp tool, gently pry up on either side of J2011, the white plastic ribbon cable socket near the rear left corner of the RF Unit (#3 in Figure 2), about 2 mm ($\frac{1}{8}$ inch), until the ribbon cable can be removed (see Figure 3).
- Remove the six screws indicated in Figure 2 (one is inside the large shield housing, accessible through the hole near the corner).

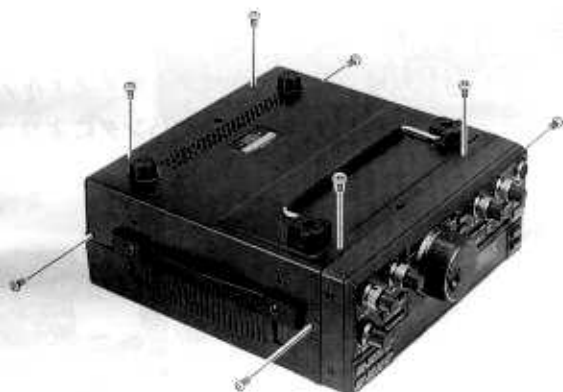


Figure 1: Bottom Cover Removal

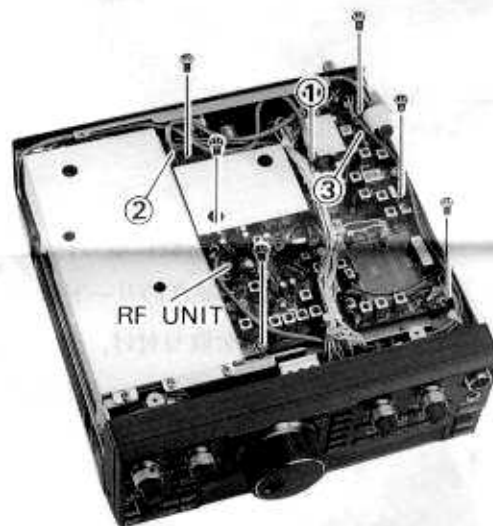


Figure 2: RF Unit Location

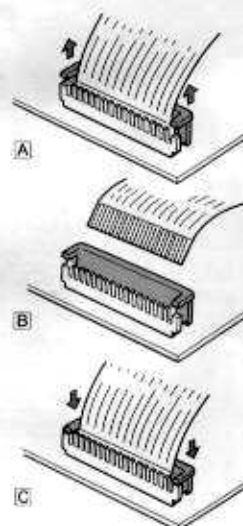
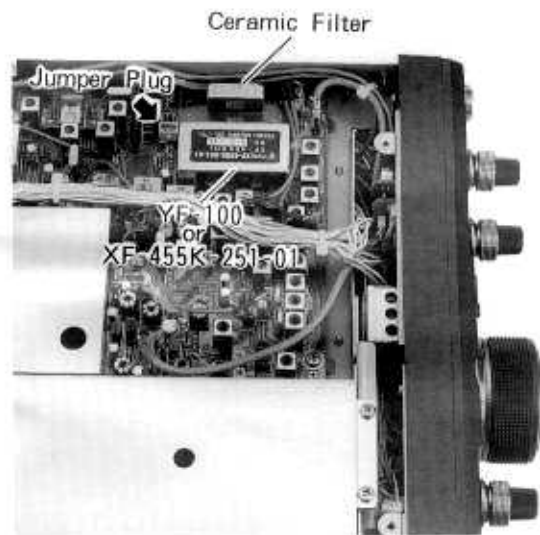


Figure 3: Ribbon Cable Connector

- Referring to the photos at the right, determine the location(s) of the filter(s) you are installing (the YF-100 and XF-455K-251-01 cannot both be installed, as they use the same mounting location). If installing either filter for CW narrow, remove the jumper plug indicated in the upper photo at the right.
- If installing the YF-101 for SSB and AM narrow, lift the rear edge of the board and carefully unsolder and remove the ceramic filter.
- Straighten the new filters' leads, if necessary. Then position each filter as indicated in the photos, and push the filter leads through the board.
- Lift the rear edge of the board and solder each filter lead on the solder side of the board while holding the filter snug against the board. Then clip off any excess leads. Check your solder joints carefully.
- Replace the board in the chassis, using care to avoid pinching any wires.
- Replace the six screws removed from the RF Unit (Figure 2), and replace the coaxial cables (#1 and #2 in Figure 2): the yellow-banded cable goes in J2024, and the light-blue-banded cable goes in J2026.
- Referring to Figure 3C, replace the ribbon cable into its connector, and press down firmly on both sides of the socket while pressing the ribbon cable into the socket. Confirm that it is firmly in place.
- Unless also installing the ATU-2, replace the bottom cover (bail towards the front) and its eight screws.



CW Filter, Jumper & Ceramic SSB Filter



**SSB Filter Location
(replacing Ceramic Filter)**