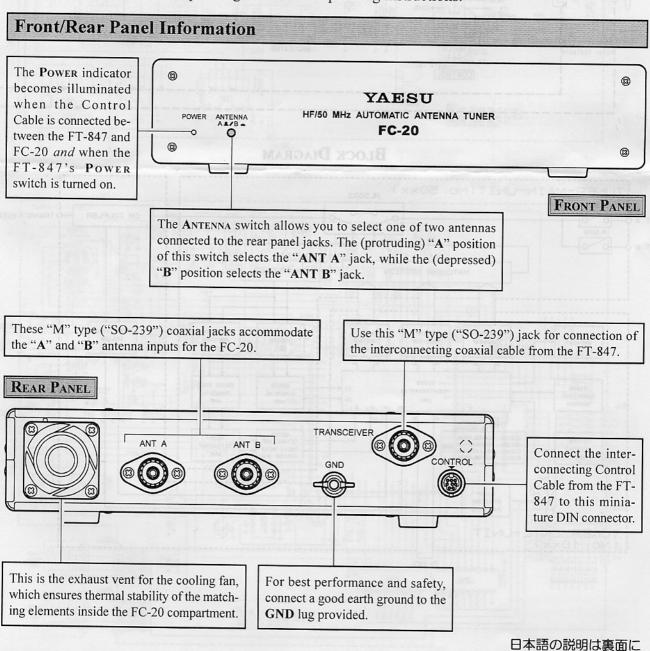
Automatic Antenna Tuner FC-20 Installation Instructions

Thank you for your purchase of the model FC-20 Automatic Antenna Tuner, designed specifically for the FT-847 HF/VHF/UHF Transceiver. The FC-20 can accommodate two antenna inputs, and it includes a cooling fan to ensure thermal stability of the critical matching elements within its compact case.

The FC-20 Automatic Antenna Tuner responds to control commands from the FT-847 Transceiver, providing microprocessor-based impedance matching on the 160 through 6 meter Amateur bands. On HF, the impedance matching range is from 16.5Ω to 150Ω (up to 3:1 SWR), while on the 50 MHz bands the impedance matching range is 25Ω to 100Ω (up to 2:1 SWR). Accordingly, the FC-20 should not be expected to match "long wire" type antennas unless you have taken specific design steps to ensure that the impedance presented to the FC-20 is within these specifications.

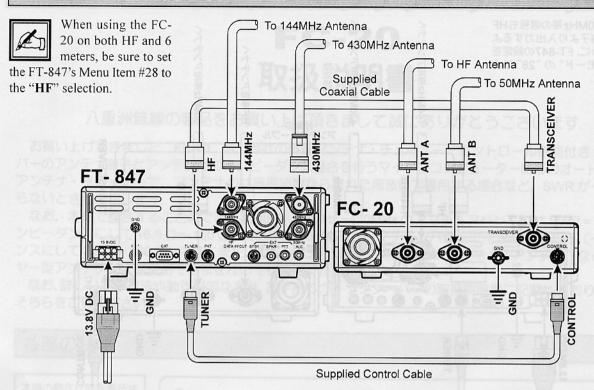
Please refer to the FT-847 Operating Manual for operating instructions.



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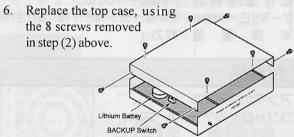
Interconnections to FT-847



Replacing the Lithium Backup Battery

After several years of operation, it is possible that the microprocessor's backup battery (CR2032) may become discharged. To restore the memory for the tuner settings, the battery will require replacement. Contact your Yaesu Dealer to obtain a suitable replacement, and follow the instructions below:

- 1. Turn the FT-847 power switch Off.
- 2. Remove the 8 screws affixing the top case of the FC-20, and remove the top case.
- 3. Turn the FC-20's internal BACKUP switch OFF.
- Remove and replace the lithium backup battery, per the illustration below.
- 5. Turn the transceiver's **POWER** switch ON, then set the FC-20's **BACKUP** switch to ON.



Removing the Lithium Battery Gently press inward on the exposed side of the battery, then use your finger to tilt the battery upward and out. Installing the Lithium Battery Lay the battery into the holder at an angle, then gently press it inward and downward to latch it in place.









Specifications

Frequency Range: 1.8 ~ 30 MHz, 50 ~ 54 MHz

INPUT IMPEDANCE: 50Ω
MAXIMUM POWER: 100 Watts
MATCHED SWR: 1.5:1 or less
TUNE-UP POWER: 50W (±2.5W)
TUNE-UP TIME: 30 seconds or less
IMPEDANCE MATCHING RANGE:

 $1.8 \sim 30 \text{ MHz}: 16.5\Omega \sim 150\Omega$ $50 \sim 54 \text{ MHz}: 25\Omega \sim 100\Omega$

IMPEDANCE MATCHING MEMORIES: 100 channels

INPUT VOLTAGE REQUIREMENT:

 $13.5V \pm 10\%$ (supplied from transceiver) Operating Temperature Range: -10° C $\sim +50^{\circ}$ C

CASE SIZE (WHD): 260 x 55.5 x 193 mm (10.2" x 2.2" x 7.6")

WEIGHT: 2 kg (4.4 lb.)

Specifications subject to change without notice of obligation.

Supplied Accessories

 Coaxial Cable (1.5 m)
 1

 Control Cable (1.5 m)
 1

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