

# Yaesu FC-30

(Automatic Antenna Tuner)

and

# FT-897D



## Various setting

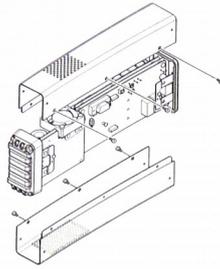
By changing the configuration of an internal DIP switch, you may change the RF signal path (to enable the FC-30 both on receive and transmit), and you may also clear all the tuner's memories.

A) By default, the FC-30 is only engaged in the transmit mode. To activate the tuner circuit while receiving.

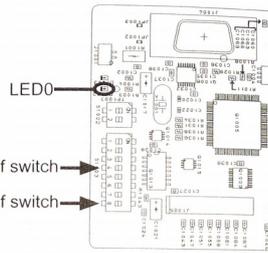
1. Turn the FT-897/D POWER switch OFF.
2. Remove the 6 screws affixing the case of the FC-30, then remove the case.
3. Turn the 8th switch of S1003 to "on."
4. Replace the case, using the 6 screws removed in step (2) above.

B) Memory clear

1. Turn the FT-897/D POWER switch OFF.
2. Remove the 6 screws affixing the case of the FC-30, then remove the case.
3. Turn the 4th switch of S1003 to "on."
4. Turn the FT-897/D POWER switch ON.
5. LED0 will glow green, then disappear, after a short time.
6. Return the 4th switch of S1003 to "off."
7. Turn the FT-897/D POWER switch OFF.
8. Replace the case, using the 6 screws removed in step (2) above.



⚠ The bottom case is the case half that has a sponge affixed to the ventilation screen. If the case parts are reversed, the sponge can touch the fan blades, disabling the fan and allowing the FC-30's control circuitry to overheat.



## Cautions

- Please note the default positions of the internal DIP switch components. All switches, except for the 4th and 8th switches of S1003, are for factory setup use only, and they should not be touched. If you accidentally set a switch to the wrong position, please refer to the table below to correct the situation.

S1002	
No.	Switch
1	OFF
2	OFF

S1003			
No.	Switch	No.	Switch
1	OFF	5	ON
2	OFF	6	ON
3	OFF	7	OFF
4	OFF	8	OFF

- Only connect cables to the FC-30 after switching the transceiver off.
- If the FC-30 doesn't tune even though you have pushed the TUNER switch of FT-897/D, it may be because the antenna or its coaxial cable have a serious problem (very high or low impedance due to "open" or "short"). Please check the antenna and coax if this happens.
- Do not place any objects next to the ventilator ducts on the FC-30, especially those in the front.

## 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: 4 W ~ 60 W  
 TUNE-UP TIME: 5 seconds or less  
 IMPEDANCE MATCHING RANGE:  
 1.8 ~ 30 MHz, 50 ~ 54 MHz: 16.5Ω ~ 150Ω  
 IMPEDANCE MATCHING MEMORIES: 100 channels  
 INPUT VOLTAGE REQUIREMENT: 13.8V ±15% (supplied from transceiver)  
 OPERATING TEMPERATURE RANGE: 14° F ~ 122° F (-10 °C ~ +50 °C)  
 CASE SIZE (WHD): 3.1" x 1.8" x 10.2" (80 x 45 x 260 mm)  
 WEIGHT: 1 kg (2.2 lb.)

*Specifications subject to change without notice of obligation.*

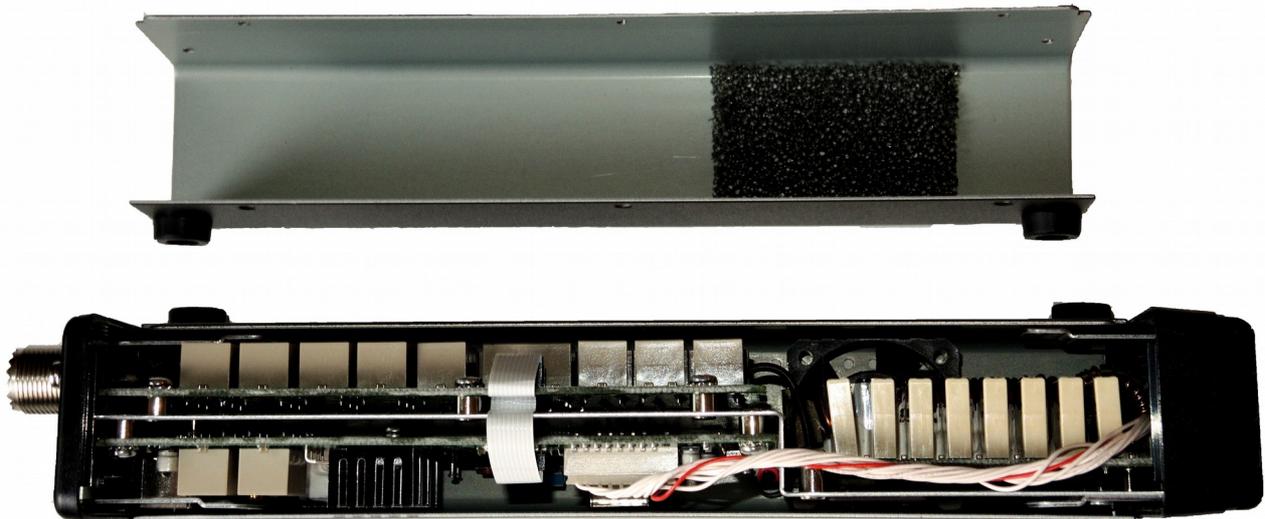
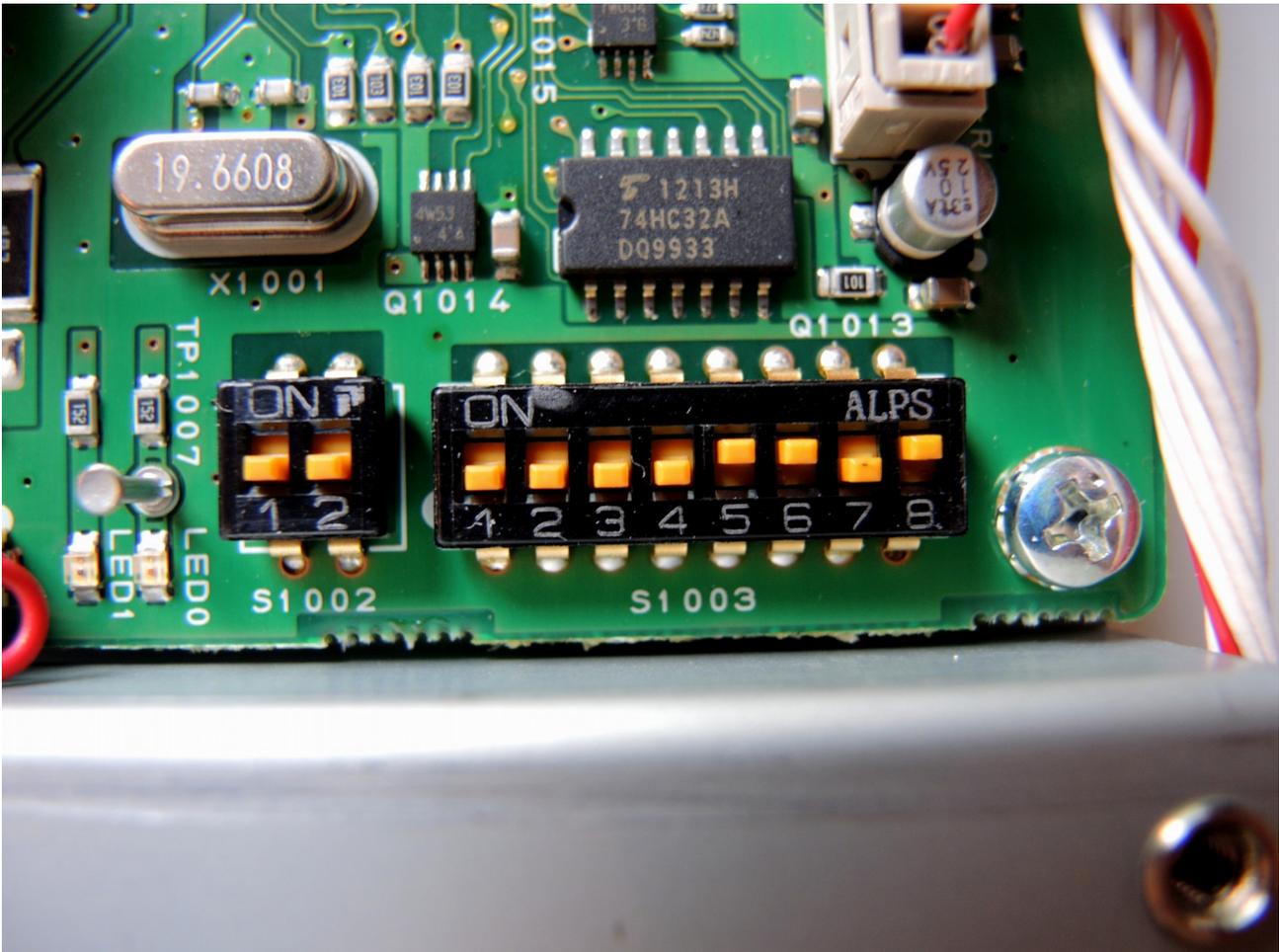
## Supplied Accessories

Coaxial Cable (0.5 m) ..... 1  
 Control Cable (0.5 m) ..... 1  
 Mounting Screw Assy..... 1

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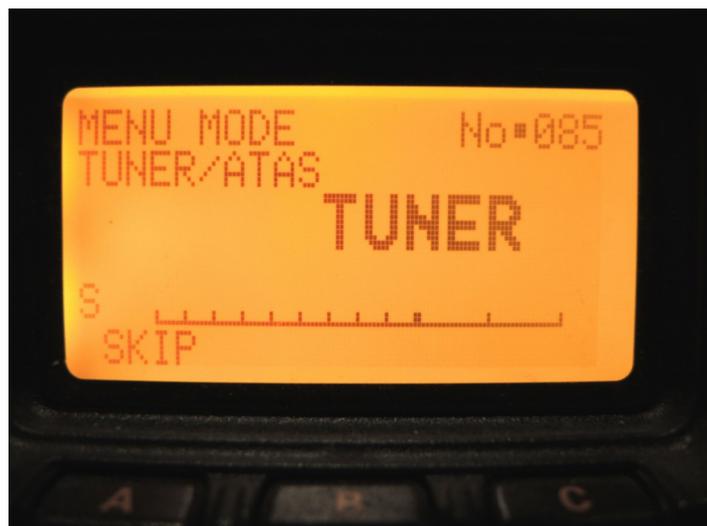


The installation of the antenna tuner is simple. Just follow the instructions. I wanted to activate the tuner while receiving, therefore I had to switch the 8<sup>th</sup> switch of S1003 to ON and I checked the positions of the other switches as you can see in the following picture.



Be sure that the bottom part with the air filter is placed correctly. The top part is on the side where the fan is located and that part does not have the filter.





To activate the antenna tuner, set the menu nr. 085 TUNER/ATAS as **TUNER**



You can activate the tuner and tune the antenna by pressing the button A in Multi-Function screen **k**.