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## TECHNICAL INFORMATION

-ZIB-132-

To: ICOM Distributors  
From: ICOM Inc. / CS Department  
[ ]

Service handling necessary:  
[ ] Yes [X] No

### Re: Expanded Functions for the IC-703

The following information is regarding expanded functions for the IC-703.

**Model:** IC-703 (All versions)

#### 1. How to expand TX frequency coverage:

(1) **Frequency Coverage (Full TX expansion):** 0.100000 – 60.000000 MHz

Remove **D5806** and **D5807** on the MAIN board as shown in the attached diagram.

(2) **Frequency Coverage (Normal TX expansion):** 1.600000 – 54.000000 MHz

Remove **D5806** on the MAIN board as shown in the attached diagram.

#### **Note:**

The above information is common for all versions.

Do not need to reset the CPU (radio) after the above diodes are removed.

The specification of transmit performance out of the ham bands is not guaranteed.

#### 2. Cancellation of the Antenna Tuner Protection:

The following modification cancellations the internal antenna tuner protection system when an antenna with SWR of more than 1:10 is used. The antenna tuner does not switch to through mode.

Remove **D5813** on the MAIN board as shown in the attached diagram.

#### **Note:**

Do not need to reset the CPU (radio) after above diode is removed.

We strongly recommend you do not modify the antenna tuner protection system from the default setting. It can cause problems. I.e. Power amplifier circuit may be damaged.

### 3. Expanding the FILTER bandwidth:

- (1) Install a diode (1790001250 MA2S111) to the position of **D5814** on the MAIN board.
- (2) Push and hold **[MODE]** and **[LOCK]** keys and turn the power ON.
- (3) Select filter bandwidth by **[FIL]** key.

**Note:**

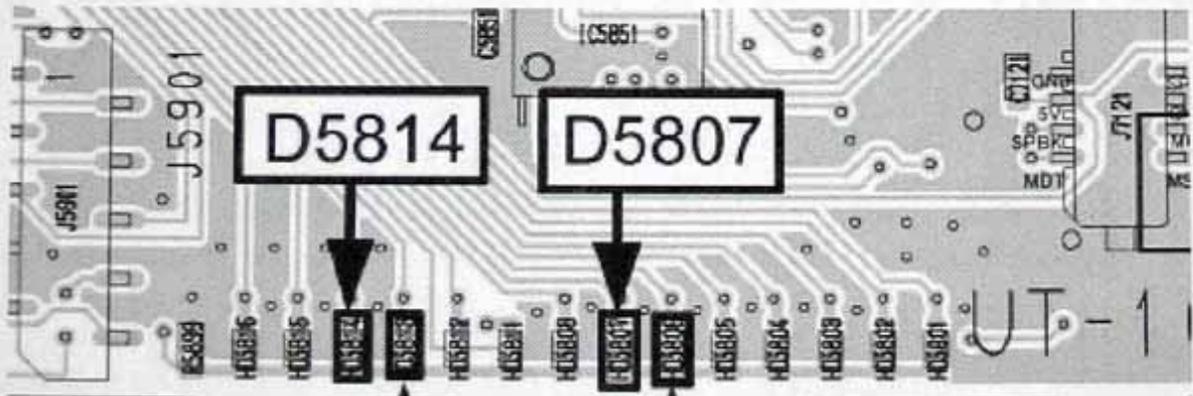
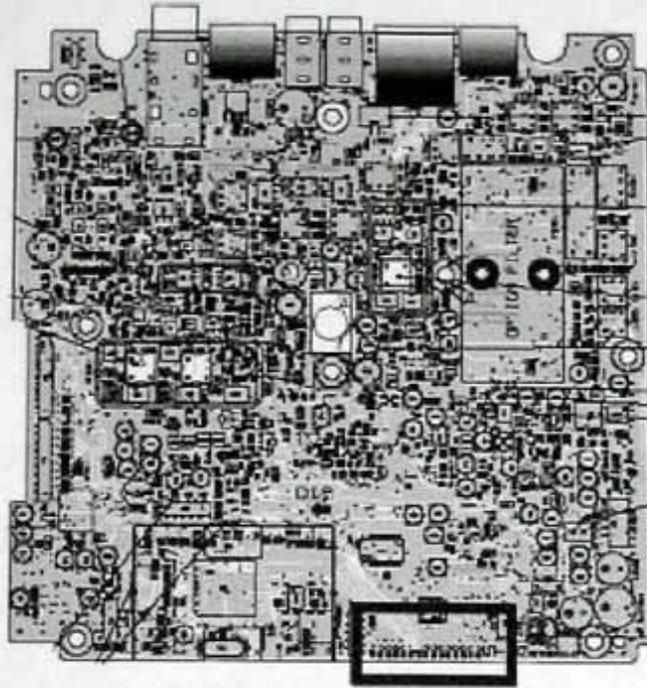
If you select the wider filter, the TX signal is transmitted with wider occupied bandwidth. Due to this effect, there is a possibility that the TX signal does not satisfy regulations in your country, please be careful about this point.

Following is the information of the filter Bandwidth selection chart:

	NO	FL-257	FL-222	FL-52A	FL-53A
<b>SSB</b>	W: 2NTH				
	M: 2N80	M: 2NOP	M: 2N23	M: 2N23	M: 2N23
	N: 2N23	N: 2N23	N: 2NOP	N: 2NOP	N: 2NOP
<b>CW</b>	W: 2NTH				
	M: 2N80	M: 2NOP	M: 2N23	M: 2N23	M: 2N23
	N: 2N23	N: 2N23	N: 2NOP	N: 2NOP	N: 2NOP
<b>RTTY</b>	W: 2NTH				
	M: 2N80	M: 2NOP	M: 2N23	M: 2N23	M: 2N23
	N: 2N23	N: 2N23	N: 2NOP	N: 2NOP	N: 2NOP
<b>SSB-D</b>	W: 2NTH				
	M: 2N80	M: 2NOP	M: 2N23	M: 2N23	M: 2N23
	N: 2N23	N: 2N23	N: 2NOP	N: 2NOP	N: 2NOP
<b>AM</b>	W: 2NTH				
	M: 2N80				
	N: 2N23	N: 2NOP	N: 2N23	N: 2N23	N: 2N23
<b>FM</b>	W: -----				
	M: 2NTH				
	N: 2N80				

<u>Filter Bandwidth (TX / RX):</u>
<b>2N23:</b> 2.3KHz
<b>2N80:</b> 8.0KHz
<b>2NTH:</b> 15.0KHz
<b>2NOP:</b> Optional filter

MAIN BOARD



D5813

D5806

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