

***YAESU***  
***The radio***

# **FTM-100DR/DE**

## **Panel Firmware Update Instruction Manual**

**YAESU MUSEN CO., LTD.**

## Important Notes

- All responsibility for the use of this software lies with the customer. We cannot be held responsible in any way for any damages or losses which may be incurred by the customer as a result of using this software.
- Copyrights and all other intellectual property rights for the software, as well as the software manual, are the property of YAESU MUSEN CO., LTD.
- The revision, modification, reverse engineering, and decompiling of this software is prohibited. Redistribution, transfer, and resale of downloaded files are also prohibited.
- Downloaded files are for personal use only.
- If you cannot perform the firmware update yourself, please consult with one of our sales sites or service centers.

## System Requirements (Operating Environment)

In order to use this program, a personal computer (PC) with one of the following Windows operating systems, and a USB data connection cable are required

### Supported Operating Systems

One of the following operating system environments:

- Microsoft® Windows® 8.1 (32 bit / 64 bit)
- Microsoft® Windows® 8 (32 bit / 64 bit)
- Microsoft® Windows® 7 (Service Pack 1 or later)

### CPU

The performance of the CPU must satisfy the operating system requirements.

### RAM (System Memory)

The capacity of the RAM (system memory) must be more than sufficient to satisfy the operating system requirements.

### HDD (Hard Disk Drive)

The capacity of the HDD must be more than sufficient to satisfy the operating system requirements.

In addition to the memory space required to run the operating system, 50 MB or more of additional memory space is required to run the software update programmer

### Necessary PC peripheral interfaces

USB interface (USB Port) or Serial Port (RS-232C)

### Cables

PC connection cable SCU-20 or Data cable CT-163 or CT-165

### **CAUTION!**

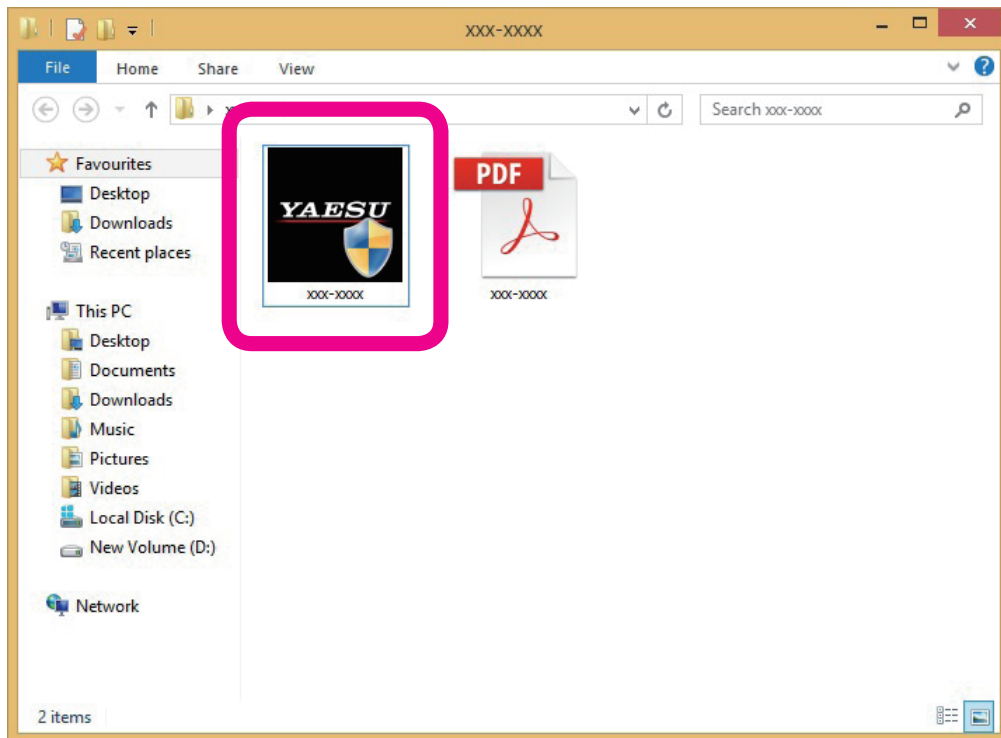
*When using the SCU-20 data cable, install the SCU-20 driver software before attempting to update the firmware. Go to the following website to download and install the driver software for the SCU-20 (<http://www.yaesu.com/>).*

## Install / Uninstall Procedure

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### Installation procedure

1. Download and unzip (extract) the update program.
2. When decompressed, the folder will automatically open. Click on the Yaesu icon in the folder to execute the update program.



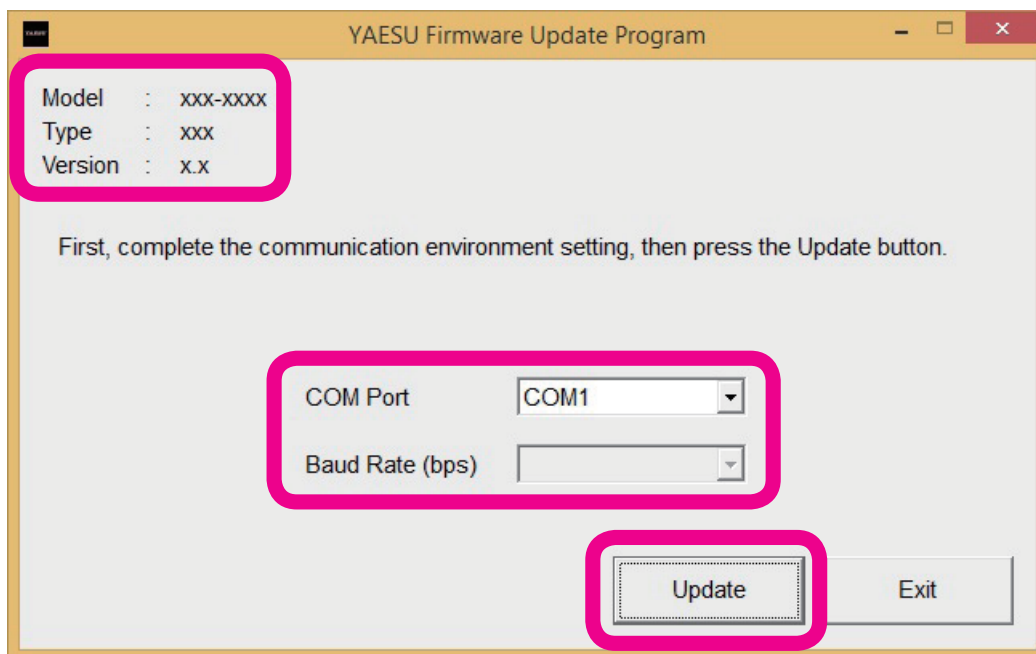
### Uninstall procedure

Delete the folder opened by the update program.

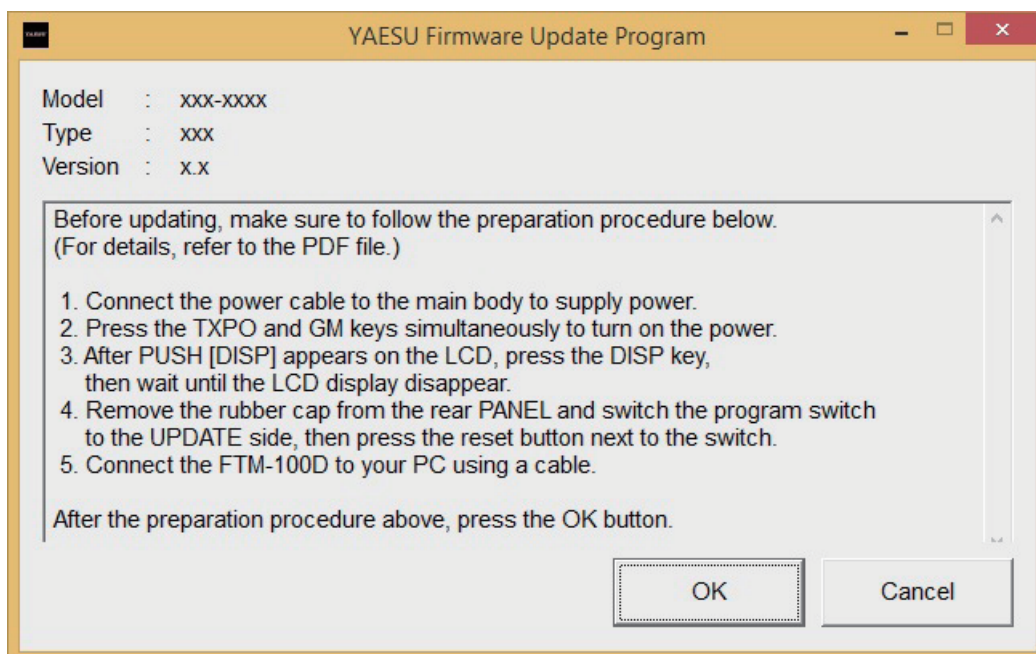
The operation will end if the opened folder is deleted since no data will be written to the registry and system folder.

## Using the Programmer

Open and execute the FTM-100D\_PANEL\_verXXX(ALL) update program file that you copied on the PC . Please check the Device Manager on your computer, it will show the connected SCU-20 COM Port number. Then select the COM Port number (see the below screen) that is connected to the SCU-20. Click the [Update] button.

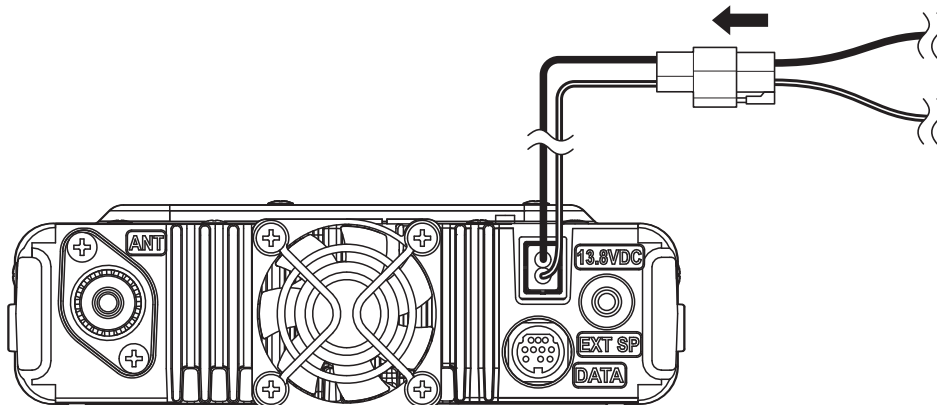


Press the Update button to display the below screen. The procedures required to prepare the transceiver to receive the firmware update are listed, carry out the respective tasks as follows

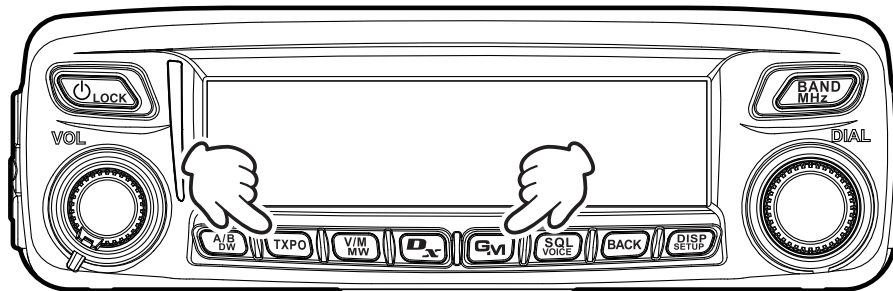


## Preparing for the Update Transfer

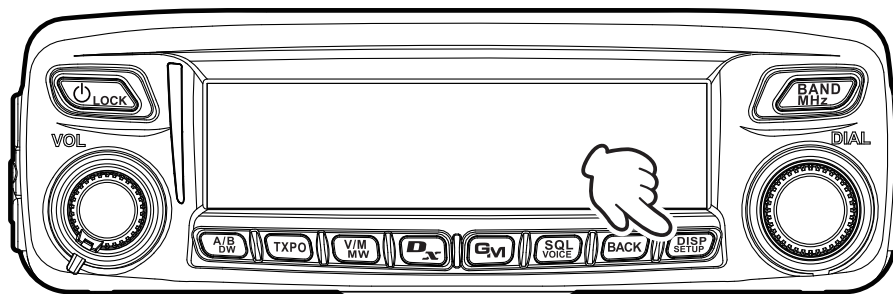
Connect the power cable to the FTM-100DR/DE main body and apply 13.8 V. Do not attempt to turn on the FTM-100DR/DE transceiver.



While holding the **TXPO** and **GM** buttons, press the **LOCK** button to turn the radio ON.



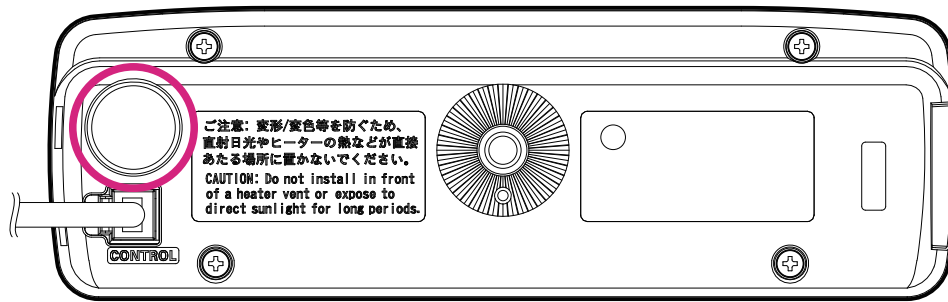
Press the **DISP SETUP** button.



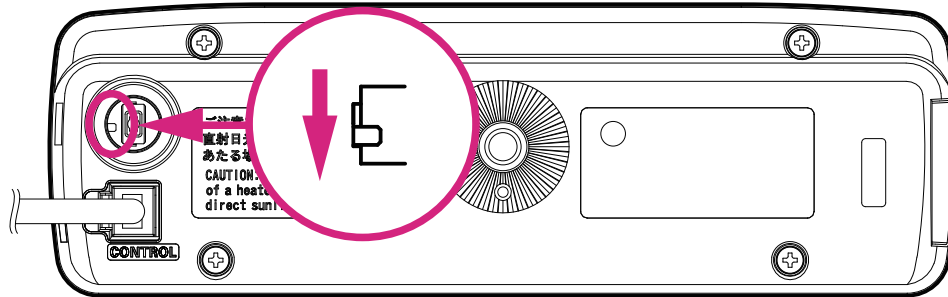
The LCD screen will be blank and a “pepo” signal will sound several times, the Control Panel will enter the write mode.

To free the front panel from the RF deck, push the button on the left side to release it.

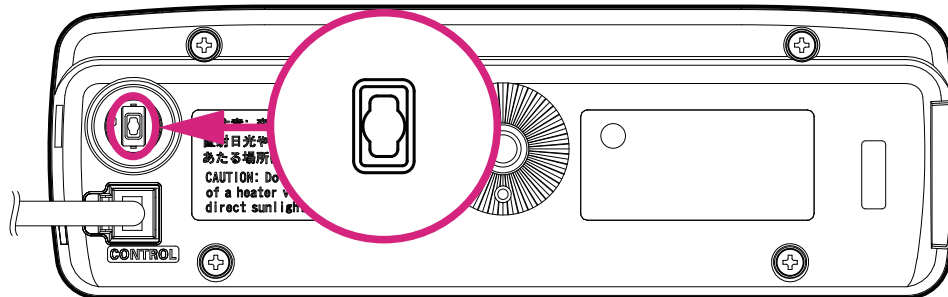
Remove the rubber cap from the back of the PANEL



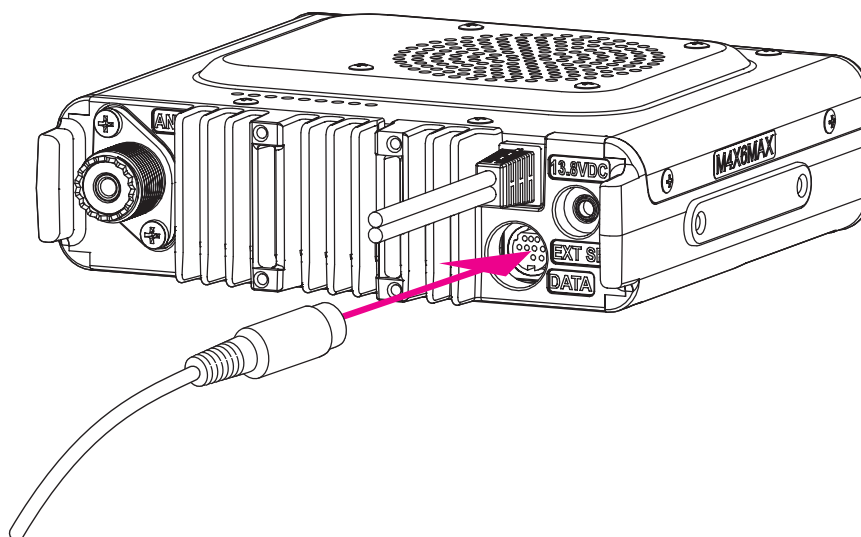
Set the slide SW on the PC board downward.



Push the RESET-SW button down. The display will flash one time. (We recommend using a small plastic screw driver or equivalent; avoid using a metal tool because the radio is turned ON).

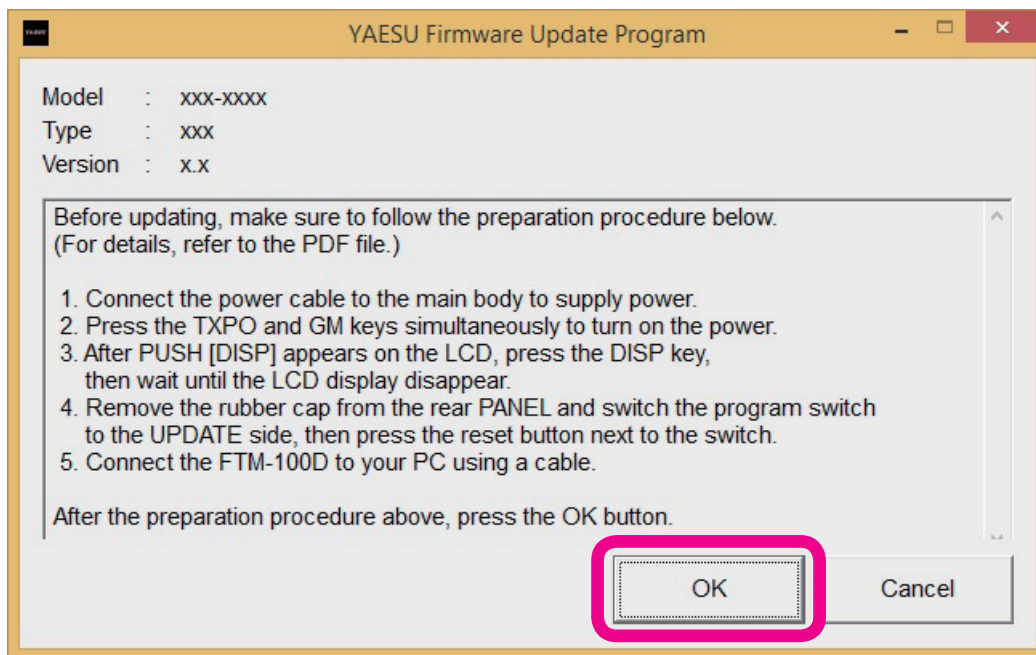


Connect the SCU-20 cable to the MAIN RF body rear mini-Din connector (the mini-Din connector notch should be upward), and then connect it to the USB on the PC.

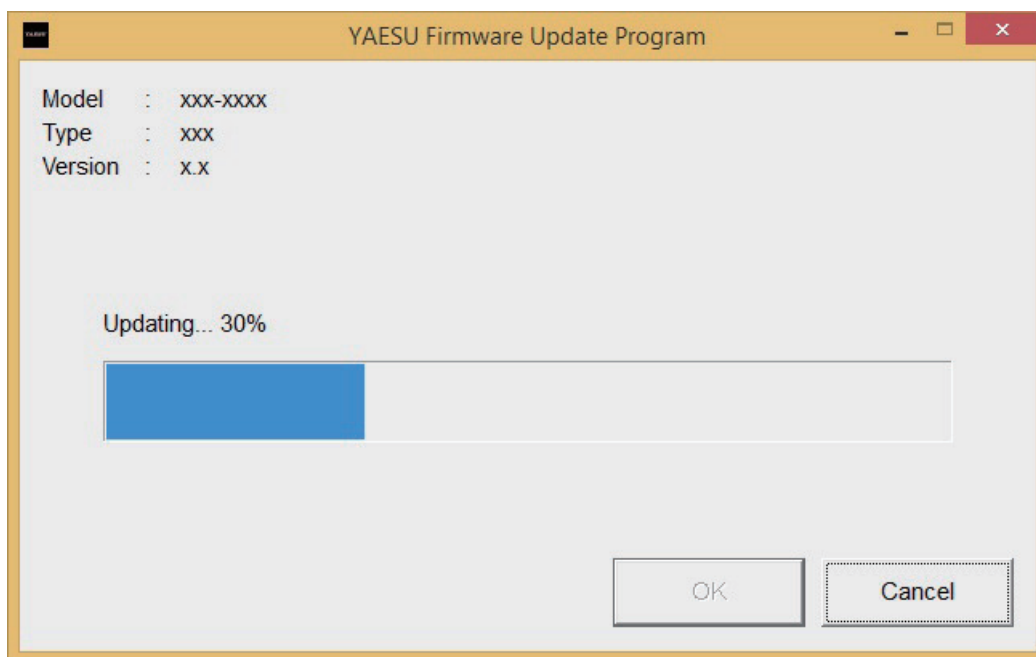


## Using the Programmer

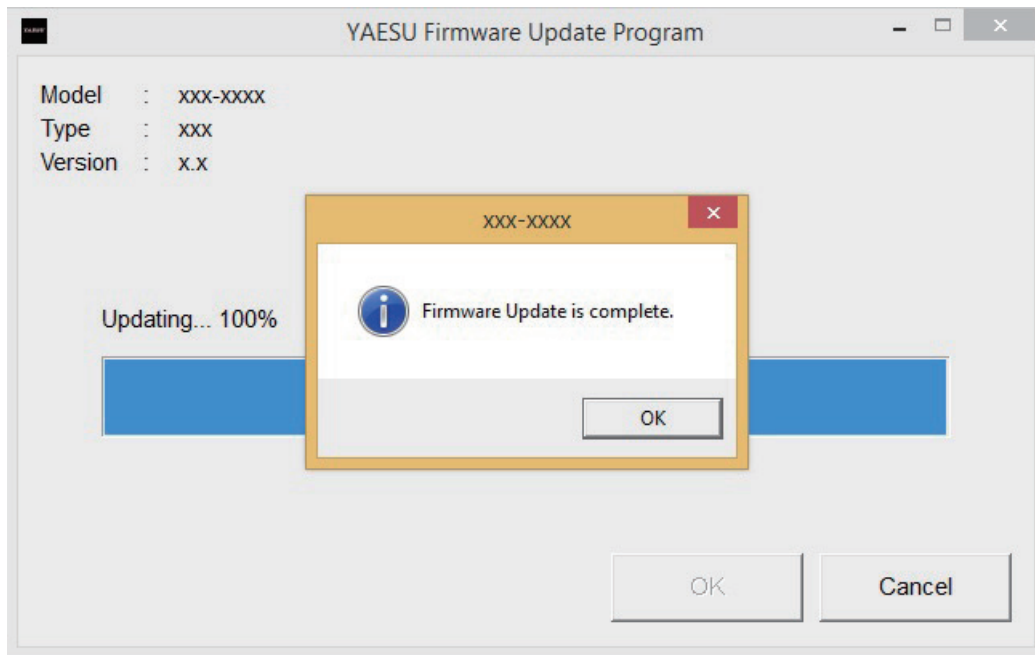
Confirm the entries, and preparation procedures on the below screen are completed and then click the [OK] button.



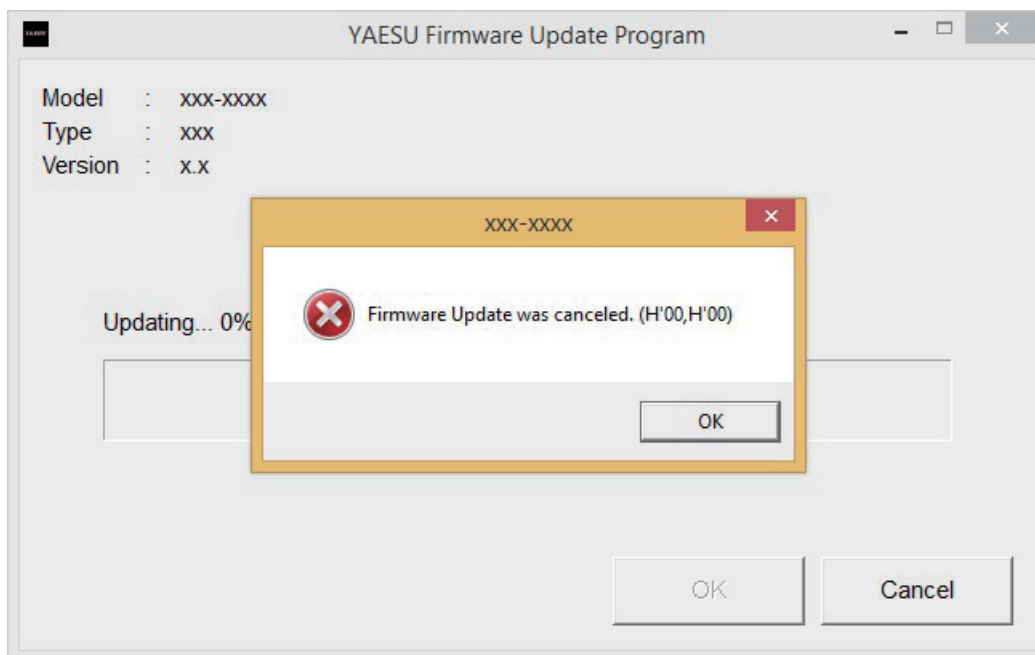
The update progress indicator bar will be displayed when the firmware transfer begins. Wait for the updating to end.



When the following pop-up screen is displayed, upon completion of the update, press the OK button.

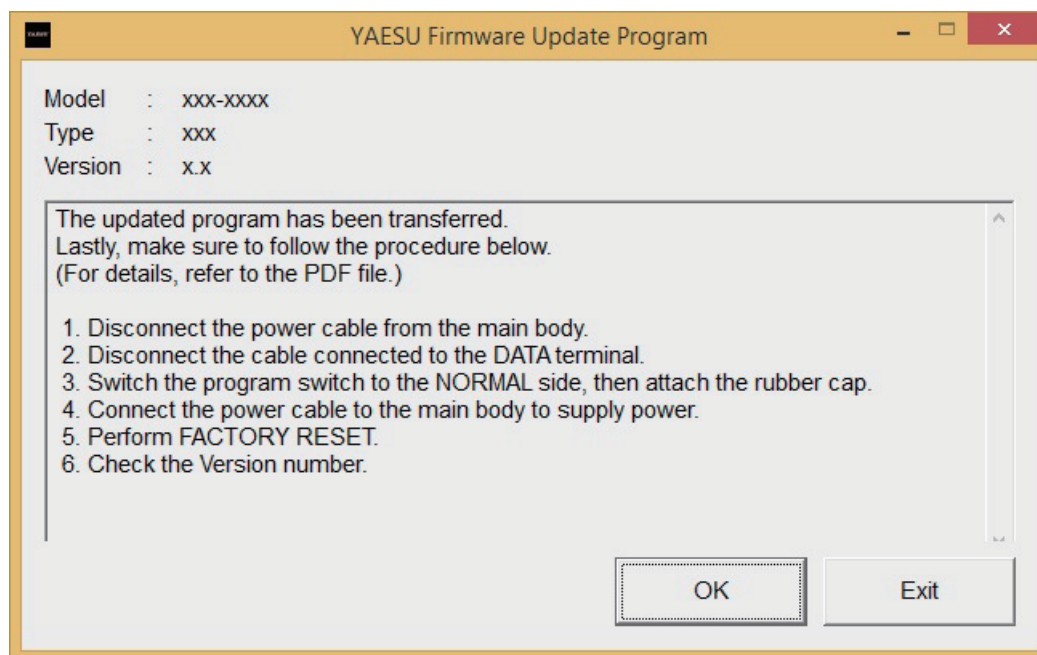


The following pop-up screen will be displayed when the updating is cancelled or when the update cannot be carried out for some reason.



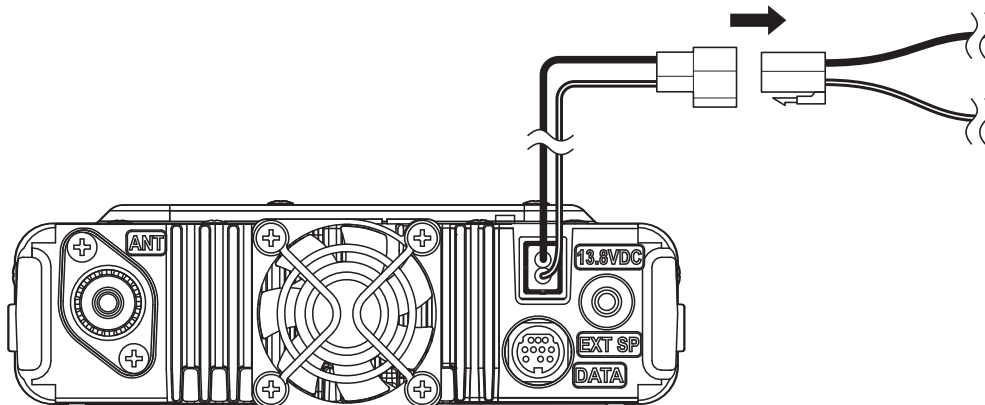


After the Update is complete, click [EXIT] button to close.

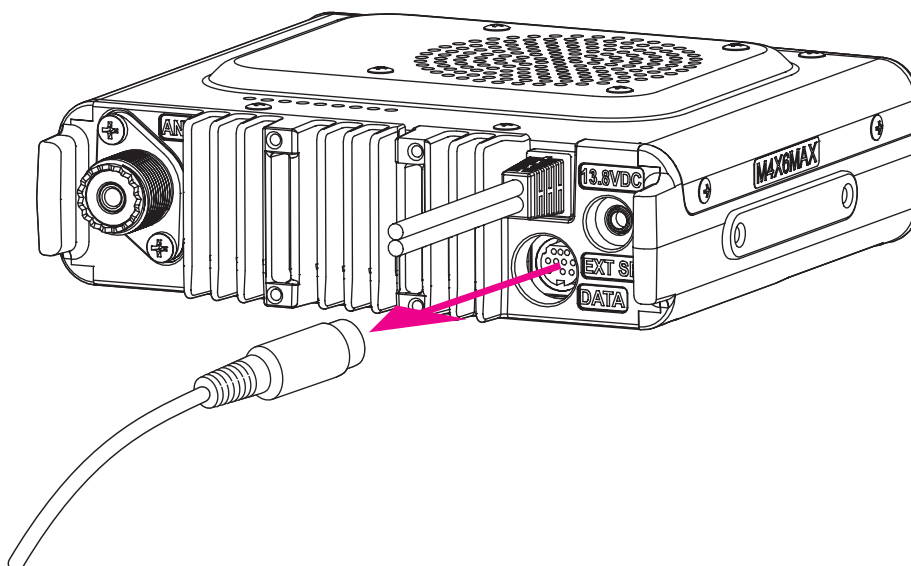


## Reassemble the FTM-100DR/DE for Normal Operations

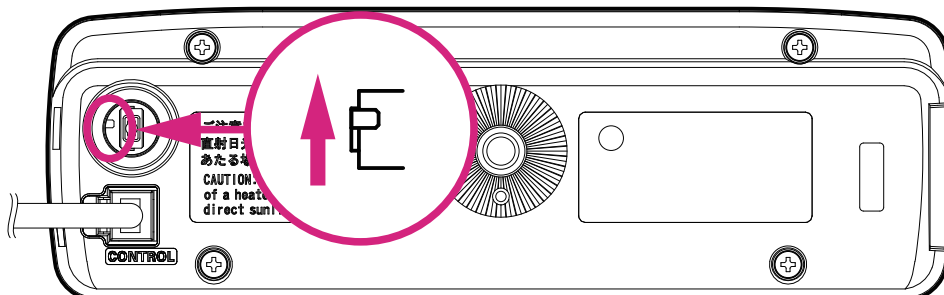
Remove the power supply cable.



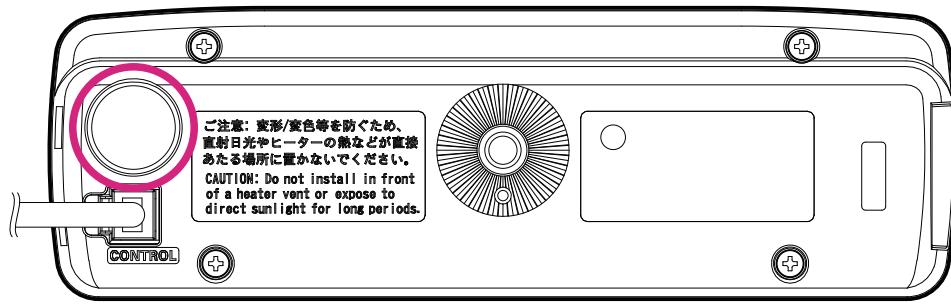
Remove the SCU-20 cable.



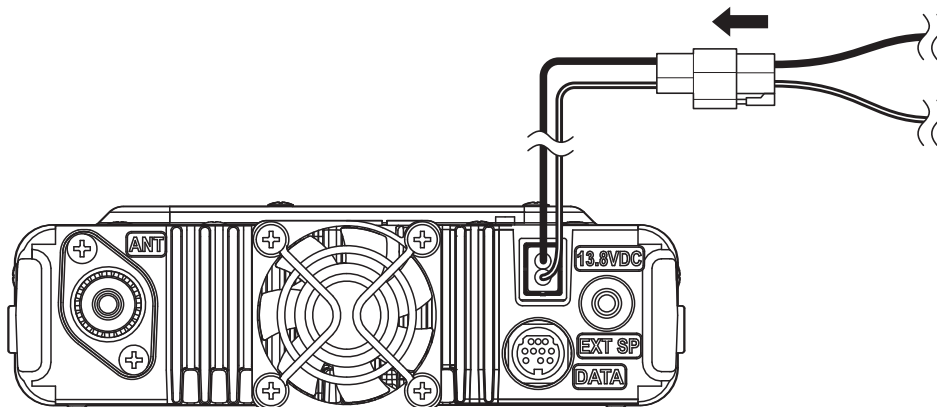
Return the slide SW of the panel to the original position (slide SW upward).



Replace the rubber cap on the panel back.




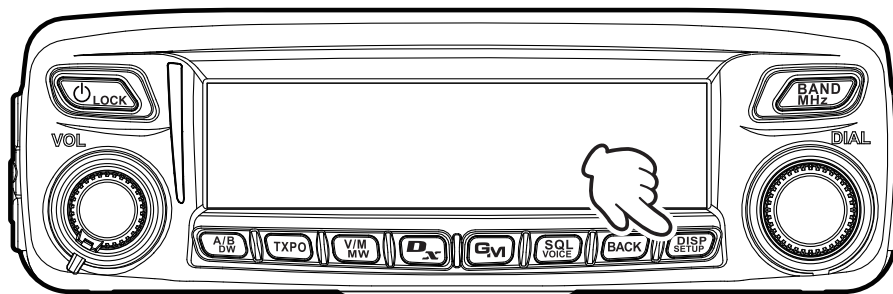
Connected a power supply cable and turn the radio ON, verify everything is operating normally.



## Factory reset

Press and hold the  button for over 1 second to turn the transceiver ON.

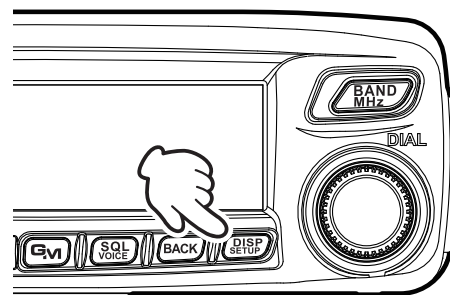
Press and hold the  button.



Rotate the DIAL to select [13 RST/CLONE], then press the  button.

```

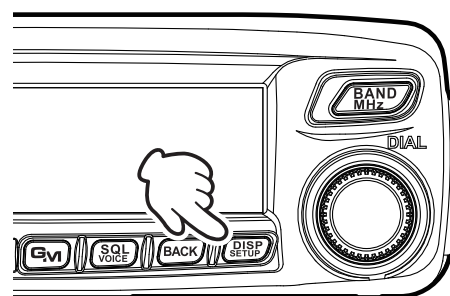
SETUP MENU (2/2)
 9 DATA          13 RST/CLONE
10 APRS          14 CALLSIGN
11 SD
12 OPTION
  
```




Rotate the DIAL to select [1 FACTORY RESET], then press the  button.

```

SETUP MENU [RST/CLONE] 1 8
1 FACTORY RESET
2 PRESET
3 RECALL PRESET
4 MEMORY CH RESET
  
```



Rotate the DIAL to select [OK?], then press the  button.

To cancel resetting, select [Cancel].


```

SETUP MENU [RST/CLONE] 1 8
1 FACTORY RESET
2 PRE          OK?
3 RECALL       Cancel
4 MEMORY CH RESET
  
```

A beep sounds and the callsign input display appears on the screen.

```

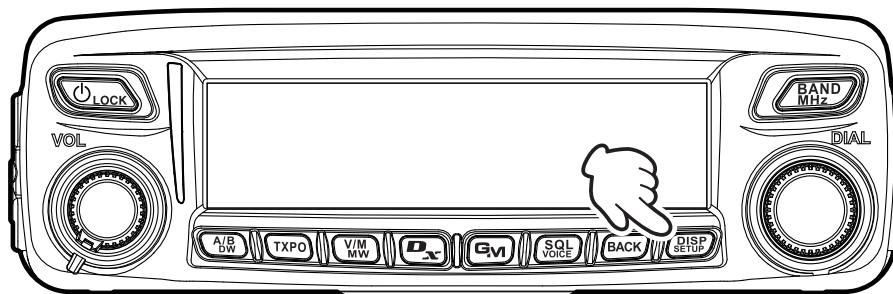
*** AT THE BEGINNING ***
Please enter Your Callsign
-MAX 10 letters-
[JA.....]
A/B CLR ← → ✕
  
```

Input the call sign, then press the  button.

## Check the Version No.

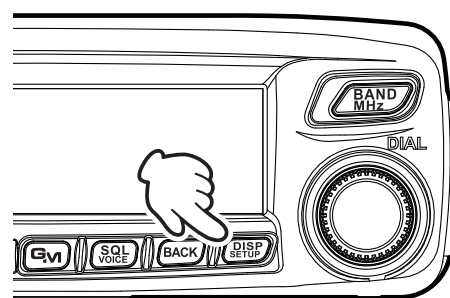
Press and hold the  button for over 1 second to turn the transceiver ON.

Press the  button.



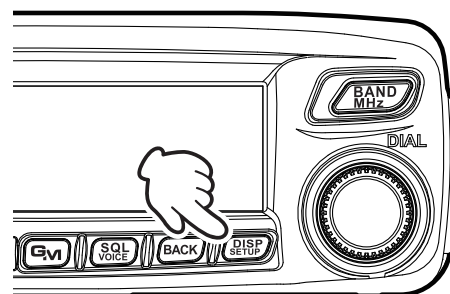
Rotate the DIAL to select [13 RST/CLONE], then press the  button.

SETUP MENU (2/2)	
9 DATA	13 RST/CLONE
10 APRS	14 CALLSIGN
11 SD	
12 OPTION	



Rotate the DIAL to select [8 SOFTWARE VERSION], then press the  button.

SETUP MENU [RST/CLONE] 8	
5 MEMORY CH SORT	
6 APRS RESET	
7 CLONE	
8 SOFTWARE VERSION	



Check the Version No. displayed on the screen.

SOFTWARE VERSION			
MAIN	CPU	Ver	x.x
PANEL	CPU	Ver	x.x
DSP	CPU	Ver	x.xx

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