Using Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0

This application note shows how to load the bootloader, M17 program and DMR program into the radio. It is assumed at this time that the radio is not bricked.

Summary of Loading the Bootloader

Transfer the M17PLUS_Bootloader_B7.06_20241214.boot or later version using the Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0 program.

Summary of Loading the M17 Program

Transfer the openrtx_cs7000p_20241211.bin or later version using the Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0 program.

Summary of Loading the DMR Program

Transfer the M17PLUS_HOST_V9.00.05_20241029.bin or later version using the Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0 program.

You need the following programs and hardware:

CS7000 M17 PLUS radio Programming cable Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0 program. Latest Version of the program you want to load into the radio If you have not already done it, install the Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0 Program on your PC. If done properly you should have the following shortcut on your PC.



2. Attach one end of the programming cable to the radio and the other end to the USB port of the computer.

3. Run the Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0 Program and you should get the following screen:

Platfo	rm M17_PLUS_DMR
Bootloader	r (*. boot)
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\Ne
Firmware (A	*. bin)
	C:\Users\Jerry\Desktop\M17 Updates\M17 FLUS Firmware\Ne
RCDB (* × d)	h * vdbv)
ront Libre	ary (*. pack, *. mpack)
Fixed Void	ze (*. fv)
Tuner File	≥ (*. tdb)
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\CS
Language H	ackage (*. 1 ang)
Welcome In	nage(*.bmp)Maximum support 160 * 128 pixel size
Picture Re	esource (*. pic)

4. Below is a picture of the radio buttons:



Press the top orange button and the PTT at the same time and while pressed, turn on the radio. The LED should display green, orange and red continuously.

5. Loading the Bootloader Bractory Tool_M17_PLUS_DMR&OPNRTX_V1.0 Platform M17_PLUS_DMR -Bootloader (*. boot) Bootloader Box Find File C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\Ne Firmware (*. bin) C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\Ne 船 Open - 🕝 🤌 📂 🛄-Look in: 퉬 New Way Name Date modified Ту 12/13/2024 3:40 PM Fi From Joince M17PLUS Bootloader B7.05 20241210.boot 12/10/2024 12:22 ... BC Latest bootloader file M17PLUS_Bootloader_B7.06_20241214.boot 12/15/2024 9:23 PM в File name: Open Files of type: BOOT File(*.boot) • Cancel Welcome Image(*.bmp)--Maximum support 160 * 128 pixel size Picture Resource(*.pic) Upgrade

Check the Bootloader Box, find the file, and double click on the latest bootloader file.

6. Loading the file into the radio

Platfo	mm M17_PLUS_DMR
Bootloade	r (*. boot)
V	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\We
Firmware	* hin)
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\We
RCDB (*. rd	b, *. r dbx)
Font Libr	ary (*. pack, *. mpack)
Fixed Voi	ce(* fv)
Tuner Fil	e (*. tdb)
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\CS
Language 1	Package (*, 1 ang)
Welcome In	mage(*, bmp)Maximum support 160 * 128 pixel size
Picture R	esource (*, pic)

Press the Upgrade button and very shortly you will see:

Factory Too	_M17_PLUS_DMR&OPNRTX_V1.0	
Platfo	m M17_PLUS_DMR	
Bootloader	(*. boot)	
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmwax	e/Ne
Firmware (*	bin)	
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firnwaz	e\Ne
RCDB (*. r db	*.rdbx)	
Font Libra	ry (*. pack, *. npack)	
Fixed Voic	e (*, fv)	
Tuner File	(*. tdb)	
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmwax	e\CS
Language P	ackage (*. lang)	
Welcome In	age(*.bnp)Waxinum support 160 * 128 pixel size	
Picture Re	source(*.pic)	
18:47:53Beg	an to upgrade bootloader file	1
		Upgrade

Followed by:

Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0			23
Platform M17_PLUS_DMR			-
Bootloader (*. boot)			
C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firm	ware\Ne	· · · ·	
Firmware (*. bin)			
C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firm	ware\Ne	· · · ·	
RCDB (*. r db, *. r dbx)			
Font Library (*. pack, *. mpack)			
Fixed Voice (*. fv)			
Tuner File(*.tdb)			
C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firm	ware\CS		
Language Package (*. 1ang)			
Welcome Image(*.bmp)Maximum support 160 * 128 pixel size			
Picture Resource(*.pic)			
08:45:47Began to upgrade bootloader file			
US:45:49BootLoader upgrade finish			٦
		pgrade	
	_		_

Followed by:

Platform M17_PLUS_	DMR		
Bootloader (*. boot)			
C:\Users\Jer	ry\Desktop\M17 Update	s\M17 PLUS Firmw	are\Ne
firmware (*. bin)			
C:\Users\Jer	ry\Desktop\M17 Update	s\M17 PLUS Firmw	are\Ne
RCDB (*. rdb, *. rdbx)			
		×	
font Library (*. pack,)	rompt		
	A		
Fixed Voice (*. fv)	Upgrade fini	sh!	
		_	
funer File(*.tdb)	O	К	
C:\Users\J		Firmw	are\CS
Language Package (*. 1an;	g)		
Yelcome Image(*.bmp)/	Maximum support 160 *	128 pixel size	
Picture Resource(*.pic)		
3:47:53Began to upgrad 3:47:55Bootloader upgr	e bootloader file ade finish		
app.			Inmede
			opgrade

Press the OK button and you are done.

7. Loading the DMR Program

This works the same way as the bootloader except have to check the firmware check box as shown below.

ſ	👬 Factory Tool_M17_PLUS_DMR&OPNRTX_V1.0
	Platform M17_PLUS_DMR
	Bootloader (*. boot)
	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\Ne
	Firmware (*. bin)
Firmware Check Box	C:\Users\Jerry\Desktop\M17 Updates\M17 PLUS Firmware\Ne
	RCDB (*. rdb, *. rdbx)
	Font Library (*. pack, *. mpack)
	Fixed Voice (*. fv)
	Tumer File (* +db)
	C:\Users\Jerry\Desktop\M17 Vpdates\M17 PLUS Firmware\CS
	Language Fackage (*. Iang)
	Welcome Image(*.bmp)Maximum support 160 * 128 pixel size
	Picture Resource(*.pic)
	08:47:53Began to upgrade bootloader file
	UST4TTSSBootLoader upgrade finish
	Upgrade

8. Loading the M17 Program

This works the same way as the bootloader except have to check the firmware check box as shown below and set the Platform as shown below.

