MP-4000 Display Cloning

Date: November 22, 2020

Cloning refers to taking the programming information *(Frequency, Tone, Scan List)* from one radio and copying it to one or more radios without the aid of a computer. MP-4000 Display Radio can do both Wired (Cabled) Cloning and Wireless Cloning. Both wired & wireless cloning methods copy over the same information. Wired requires a cable, wireless does not, but might be susceptible to errors during transmission. "TX" radio is the radio that has the information you need to copy over to the "RX" target radio that will be receiving the information.

Hardware Needed for Wired Cloning: ACC-8050C Cloning Cable

	KEY COMBINATION	OPERATION
WIRED	TX Radio: Hold PTT button + Power on until "<LINE CLONE>" appears on screen. RX Radio: Hold P button + Power on. "Program Mode" will appear on screen.	1. Connect both radios with the cloning cable. 2. Put both radios into Wired Cloning Mode using their respective key combinations. 3. When both radios are ready, press the "Enter" button of the radio transmitting the programming information and it will send programming data to the target RX radio. 4. The process is complete when the RX radio displays "COMPLETE!". Disconnect the target radio and power cycle. **If you want to clone additional radios**, leave the TX radio in cloning mode and connect another target radio for programming. Put the RX target radio into cloning mode and press "Enter" on the TX radio to clone.

Wireless Cloning:

Hardware Needed for Wireless Cloning: None.
Make sure the batteries in the radios are fully charged.
Cloning process is for one target RX radio at a time.

	KEY COMBINATION	OPERATION
WIRELESS	TX Radio: Hold P + UP Button + Power on until "TX Wirelss" appears on screen. RX Radio: Hold P + DOWN Button + Power on until "RX Wirelss" appears on screen.	1. Put both radios into Wireless Cloning Mode using their respective key combinations. 2. We recommend radios only be 10 feet or so apart during wireless cloning. When both radios are ready, press the PTT button of the TX radio. Its screen will change to "Channel: [0]" and you will see it send programming data to the target RX radio whose screen will change from "RX Wirelss" to "G [0] E [0]" and then display the number of records "G" copied over or it will display the number of errors "E" occurring. 3. When complete, RX target radio will state "COMPLETION" and power cycle back to its ready screen. However, if 1 or more errors occur, the RX radio will state "failure" and restart the process "re-receiving." The TX radio, when complete, will state "TX Repeat? Y". **If you want to clone other radios,** leave the TX radio in this state and put new target RX radios into Wireless Cloning mode. This time, however, press Enter button on the TX radio instead of PTT. When done with all programming, power cycle the TX radio.