



DA-7X2 NR Board Update and Recovery

Update the noise-reduction processor or recover a null NR/APRS version

Update only when needed: If Device Info already shows NR V112 and noise reduction works normally, skip this update unless BTECH Support directs you to it. The PF1 + PF3 null-data recovery method requires main firmware V1.05 or later.

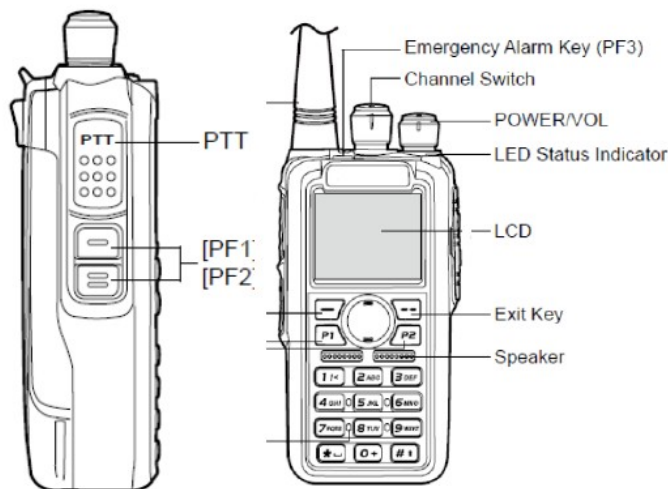
Before you begin

- Use the NR_BOARD_V112_20260306.ufw file supplied in the BTECH package.
- Use a fully charged battery, a stable Windows PC, and the BTECH programming cable.
- Close the CPS and any other program that could use the radio COM port.
- Use only the NR file and JL Bootloader supplied in this DA-7X2 package.

Choose the correct start-up method

STOP - choose one row only: Use PF3 + PF2 for a normal NR-board update. Use PF1 + PF3 only when NR/APRS data is null or BTECH Support directs it. If the expected update screen does not appear, power off without writing.

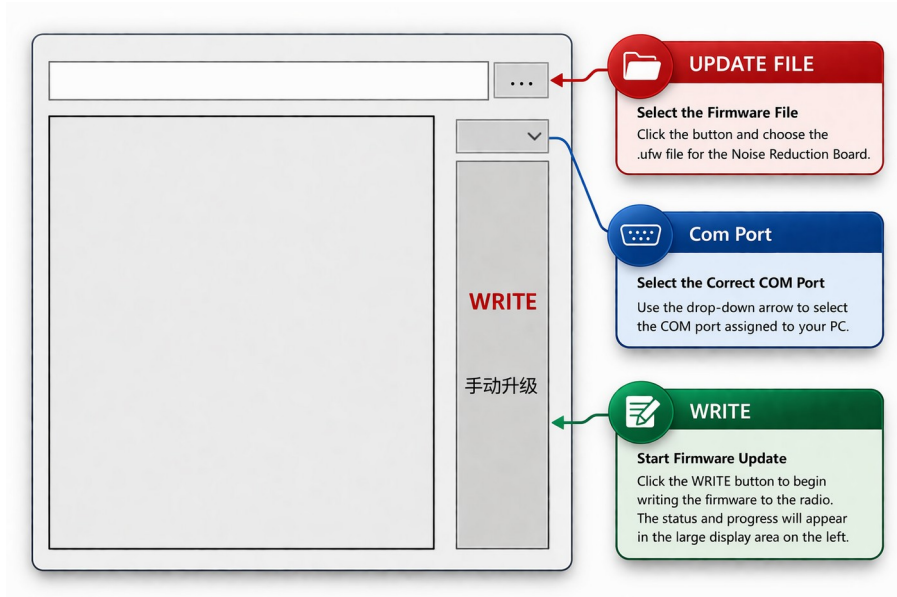
Situation	Keys held while powering on
Normal NR-board update	PF3 + PF2
Null NR/APRS recovery - firmware V1.05 or later	PF1 + PF3



Confirm the key labels on the radio before powering on. The recovery combination is not the normal NR update combination.

Write NR firmware V112

1. Turn the radio off and connect the programming cable.
2. Hold the appropriate key combination from the table above while turning the radio on.
3. Open the BTECH-supplied JL Bootloader utility.
4. Select the correct radio COM port.
5. Browse to NR_BOARD_V112_20260306.ufw.
6. Select Write and wait until the progress reaches 100% and the utility reports completion.
7. Close the utility, turn the radio off, disconnect USB, and power the radio on normally.



Use the supplied utility to select the COM port and V112 .ufw file, then write until the progress reaches 100%.

If recovery is needed: Use PF1 + PF3 only for a confirmed null-data condition on firmware V1.05 or later, or when BTECH Support directs you. If the radio still cannot start normally after a successful write and power cycle, stop and contact BTECH Support with the observed symptoms.