

## Instructions to Restore RCCR Model Identification

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As per Ritron Technical Bulletin #14560040, the following instructions will guide through the procedure to verify and restore the Model Identification of your RCCR Locomotive Radio.

### To Verify that Model ID Information is valid:

1. Download and Save to your computer the following files:
  - Ritron Clean Cab Programmer v.1.1.17
  - Firmware Update main\_update\_2821.s19
  - Firmware Update display\_update\_18.s19
  - Firmware Update NXDN\_update\_05.S19
2. Connect RCCR Locomotive Radio to a 13VDC power supply through the 4-pin DC Power connector on the side of the radio and to the computer through the DB-15 connector on the back of the radio with the RCCR Programming Cable.
3. Turn on the power supply and wait for the radio to complete displaying the current firmware revisions of the radio and sound a "beep".
4. Once completed, open the Ritron Clean Cab Programmer v.1.1.17. The radio's programming information will automatically be READ. A pop-up message will be displayed recommending you to upgrade all firmware in the radio. Select OK.  
**IMPORTANT:** Upgrading the Main Board firmware to version 2821 will prevent future Model ID information corruption.
5. When the programming information has been READ, select the RADIO ID tab. Check to see if a 5-digit number is listed for the Case Serial Number or if FFFFF is listed.
6. If a 5-digit number is listed, then the RCCR Model ID has not been corrupted and the radio may be returned to service or proceed to **Update RCCR Radio Firmware** as previously recommended.
7. If FFFFF is listed as the Case Serial Number, proceed to **Restore Model ID Information** instructions.

### Restore Model ID Information:

1. With the RCCR still powered-up and connected to the computer with the Ritron Clean Cab Programmer v.1.1.17 still active, select File/Open File.
2. If there is a custom Radio Data File(.rdf) that has been created for your Railroad, select that file.(Contact the Radio Shop Manager for this information)
3. If a custom Radio Data File(.rdf) is not available, select either the RCCR\_Default.rdf file if your radio does not have the NXDN Board installed, or select RCCR\_NX\_Default.rdf file if your radio does have the NXDN Board installed.
4. After selecting the proper Radio Data File(.rdf), select Radio/Program Radio.
5. You will then be asked to type in the radio's 5-digit serial number located on the back of the radio on the Ritron FCC ID/Serial Label.
6. Select OK, and the Programmer will begin programming the radio.
7. When the Programmer finishes programming the radio, the Model ID Information has been restored and the radio may be returned to service or proceed to **Update RCCR Radio Firmware** as previously recommended.

### Update RCCR Radio Firmware:

1. With the RCCR still powered-up and connected to the computer with the Ritron Clean Cab Programmer v.1.1.17 still active, select Radio/Read Radio.
2. Make note of the Firmware revisions displayed after the radio information has been READ.

3. The most current Firmware revisions at the release of this Technical Bulletin are:  
Main Board: MB 2821  
Display Board: DB 0018  
NXDN Board: NB 0105, if the NXDN Board is not installed, no NB revision will be displayed.
4. If the displayed revisions match the above list, then the radio may be returned to service. If not, continue with the next step.
5. The order for firmware upgrades is Main Board first, Display Board second, and NXDN Board(if applicable) last.
6. Select Radio/Upgrade Firmware to upgrade Main Board firmware.
7. Select Firmware Update main\_update\_2821.s19. Upgrade will start automatically.
8. When complete, follow directions to power cycle the radio to save the upgrade.
9. To upgrade the Display Board, select Radio/Upgrade Display Firmware.
10. Select Firmware Update display\_update\_18.s19. Upgrade will start automatically.
11. When complete, follow directions to power cycle the radio to save the upgrade.
12. To upgrade the NXDN Board, select Radio/Upgrade NXDN Firmware.
13. Select Firmware Update NXDN\_update\_05.S19. Upgrade will start automatically.
14. When complete, follow directions to power cycle the radio to save the upgrade.
15. The firmware upgrade is now complete, and the radio may be returned to service.