Ritron Model(s): JBS/PBS/NRB Series

Current Firmware Revision: 9s1N3105.s19 **Revision Update:** December 5, 2012

Firmware revision 9S1N3105 corrects a problem on a small percentage of JBS or PBS base radios where it cannot be turned off using the Volume Down control. Ritron programmer RPT-PCPS-9.5.0 or higher can be used to install this firmware update.

IMPORTANT!

Updating to firmware revision 31.05 enforces the FCC 2013 Narrowband Mandate. Radios with firmware 31.05 installed <u>cannot</u> operate wideband. Furthermore the process cannot be reversed, radios updated for narrowband compliance cannot be reverted back to a firmware revision that allows wideband operation.

JBS/PBS/NRB firmware revision history:

1. 9S103101 released: 06/09/2009

- a. Allow programming on 2.5 kHz channel steps at VHF and 6.25 kHz channel steps at UHF.
- b. Support slope adjustment for voice, tone and DTMF/2-Tone deviation.
- c. Support "Always On" operation. "Always On" model radios:
 - Are on any time power is applied to the radio.
 - Do not turn off or restart when the volume is decremented to 0.
 - Restart on the last channel used after a power outage.
 - Do not check for low battery.
 - In weather training mode, saves weather channel to EE whenever squelch opens instead of at turn-off.
- d. Remove Power Saver operation. This feature was removed to allow "Always On" operation.
- e. Added a Turn on to Channel 1 option.
- f. TX Timeout Timer recognized when using software PTT.

2. 9S103103 released: 10/20/2009

- a. Reduce the minimum volume setting from pot value 3 to 1.
- b. Corrects frequency calculation problem with UHF table frequencies.
- c. Disallows field programming on any channel where the frequency has been custom programmed (non-table).

3. 9S1N3104 released: 08/08/2012

Firmware revision 9S1N3014 updates the JBS/PBS/NRB model radios for FCC 2013 Narrowband compliance. Radios cannot be programmed for wideband operation.

- a. Narrowband compliant firmware revisions are identified by the letter "N" in the 4th character of the .s19 firmware file, and by setting the MSB of the firmware revision.
- b. Requires Ritron D-Series PC Programmer 9.5.0 or later. Previous revision of the PC programmer will not be able to program narrowband compliant radios.
- c. Radios can be updated to narrowband compliant firmware, however, once updated the radio cannot be reverted back to a non-compliant firmware revision.
- d. Narrowband is not enforced on Canadian models, they can still be programmed for wideband. Canadian and BC models continue to have WB table frequencies.

4. 9S1N3105 released: 12/05/2012

- Correct a problem on a small percentage of JBS or PBS base radios where it cannot be turned off using the Volume Down control.
- b. Make provision for unlimited TX time, unrestricted by the TX Timeout Timer. This option is only available via terminal mode programming.
- c. Ritron programmer RPT-PCPS-9.5.0 or higher is required to install this firmware update.
- d. 2013 FCC Narrowband compliant, once updated the radio cannot be reverted back to a non-compliant firmware revision.