



Technical Service Bulletin

GROUP BODY ELECTRICAL	NUMBER 23-BE-002H
DATE February, 2023	MODEL(S) VELOSTER N (JSN)

SUBJECT: BCW SOFTWARE UPGRADE – JS N BCW LOGIC IMPROVEMENT

Description: This bulletin provides information to upgrade the BCW (Blind-spot Collision Warning) software for certain 2019-22MY Veloster N (JSN) vehicles (see Applicable Vehicles below).

- Symptom: BCW lamp illuminated intermittently with no vehicle in blind spot when snow tires are applied.
- Cause: BCW unit misrecognizes radar signals that are reflected on winter tires as objects.

Applicable Vehicles: Certain 2019-22MY Veloster N (JSN) equipped with 2.0T engine and produced from 10/17/2019 – 4/20/2022.

ROM ID Information Table:

MODEL	SYSTEM	P/NO.		ROM ID VER.	
		OLD	NEW	OLD	NEW
Veloster JS N (JSN)	BCW	99140-K9100 99150-K9100	99140-K9200 99150-K9200	1.00	1.01

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
VELOSTER JS N (JSN)	99140Q0B	BCW UPGRADE	0.3 M/H	99140-K9100	I3A	ZZ3

NOTE 1: Normal Warranty Applies

Information

- Make sure the vehicle battery has a reasonable charge.
- Turn off all lamps (**DO NOT** leave head lamp switch in auto mode) and all accessories.
- Perform the upgrade with the ignition switch in the **ON** position.
- **DO NOT** disconnect any cables connected to the vehicle or scan tool during upgrade.
- **DO NOT** start the engine during upgrade.
- **DO NOT** turn off the ignition switch during upgrade.

Information

You must initially perform the GDS Update in Auto Mode

- Refer to the TSB **15-GI-001** for the tablet-based Mobile GDS ECU Update procedures.
- If the ECU update starts but the fails in Auto Mode, perform the update in manual mode to recover.

Circulate To: General Manager, Service Manager, Sales Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

i Information

GDS-M Vehicle Battery Low Voltage Warning:

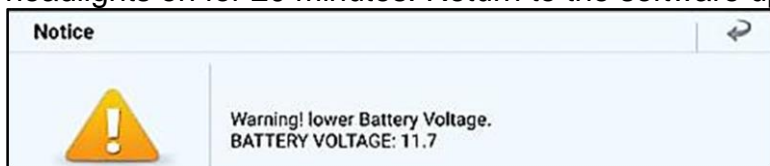
When the vehicle battery is lower than 12 volts, the GDS-M will trigger a Low Battery Voltage Warning.

If this warning occurs:

- A. Connect the battery to a fully charged battery jump pack or GR8 charger using “Power Supply Mode” to continue the software upgrade.

OR

- B. Select “BACK” to exit the software upgrade. Then, start the engine and idle with the headlights on for 20 minutes. Return to the software upgrade after charging the battery.



1. GDS (GLOBAL DIAGNOSTIC SYSTEM) MOBILE INSTALLATION PROCEDURE

Connect the VCI-II into the vehicle’s DLC connector under the driver side’s instrument panel and make sure the VCI-II is **ON**.

i Information

Before the software update, make sure the battery of the Tablet PC is sufficiently charged. The update can be performed via Wifi or using the USB cable between the tablet and VCI-II.



▪ **AUTOMATIC GDS-MOBILE UPGRADE PROCEDURE**

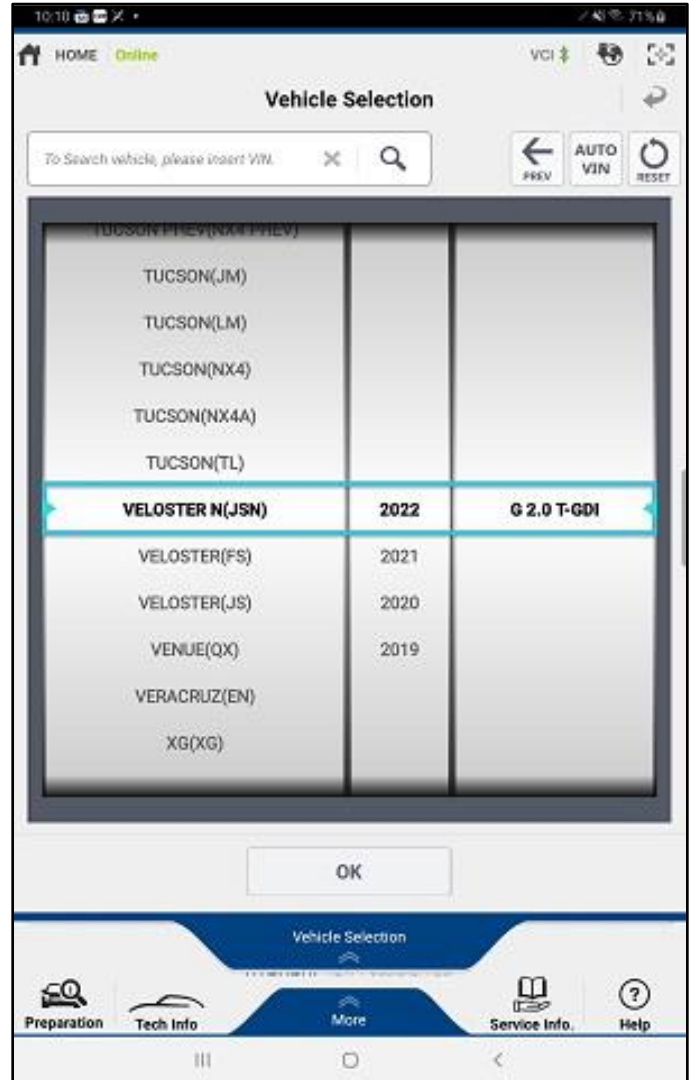
1. Select ECU Upgrade after selecting the vehicle information.

i Information

Do NOT select BACK or HOME while performing update.

i Information

Do NOT start the engine while performing update.



2. Select the Auto Mode and then select the system.
3. Read the information and select the ID check.

i Information

The GDS-Mobile will recognize the vehicle's ROM ID and find the newest update.

4. Select "817.JS N BCW LOGIC IMPROVEMENT (Winter tire related)".
5. Select OK if the results indicate the voltage is correct.

***i* Information**

The vehicle battery must have at least 12 volts to assure a reliable update.

6. Wait for the upgrade to finish.

***i* Information**

The update will have two parts (1/2 and 2/2) and the progress will be displayed in the bar graph.

7. Upgrade (1/2) will begin, and the progress of the upgrade will appear on the bar graph until (2/2) is reached then the upgrade will be complete.
8. Turn the ignition key to the OFF position for 10 seconds, then back to the ON position.
9. Click OK on the screen then to finalize the update.
10. Check for DTCs and clear if any are present then start the engine and check for normal operation

- **MANUAL GDS-MOBILE UPGRADE PROCEDURE**

(Only if Auto Update is unsuccessful)

1. Select Manual Mode then select the upgrade event.



2. Select the control unit part number from the ROM ID list above, then click OK.
3. Enter **9100** into the password field.
4. Select OK if the results show the battery voltage is correct.
5. Wait for the upgrade to finish.



Information

The update will have two parts (1/2 and 2/2) and the progress will be displayed in the bar graph.

6. Turn off the ignition for **10 seconds**, then turn **ON** the ignition, and select OK.
7. Check for any DTCs and clear if present then start the vehicle and check for normal operation.