



HYUNDAI
Technical Service Bulletin

GROUP RECALL	NUMBER 24-01-075H-1
DATE SEPTEMBER 2024	MODEL(S) VELOSTER N (JSN) ELANTRA N (CN7N) KONA N (OSN)

SUBJECT: ECU UPDATE AND DTC P0088 INSPECTION/REPAIR (RECALL 262)

This TSB supersedes 24-01-075H to add the Kona N (OSN) and Elantra N (CN7N) models and related GDS and Warranty Information.

★ IMPORTANT

Vehicle repairs related to safety recalls are critically important and must be performed properly in accordance with TSB procedures. Review this bulletin in its entirety prior to beginning any repair work.

As required by federal law, retailers must not deliver new vehicles for sale or for lease to guests until all open recalls have been performed. Retailers must also perform all open recalls on used vehicles, demo, and rental vehicles prior to placing them into guest use and whenever an affected vehicle is in the shop for any maintenance or repair.

Access the "Vehicle Information" screen via WebDCS to identify open recalls.

Description: Certain 2019-2022MY Veloster N (JSN), 2022-23MY Elantra N (CN7N), and 2022-23MY Kona N (OSN) vehicles are equipped with high pressure fuel pump (HPFP) assemblies that have fuel control valves (FCV) that could allow excess fuel to enter the fuel pump due to gradual wear of the FCV plunger. An air/fuel mixture that runs too "rich" may result in a reduction or loss of motive power at low speeds.

Follow the service procedure outlined in this bulletin to inspect for Diagnostic Trouble Code (DTC) P0088/P008800 (Fuel Rail/System Pressure - Too High), update the Engine Control Module (ECM) software, and if necessary, replace the high-pressure fuel pump.

Applicable Vehicles (Certain):

- 2019-22MY Veloster N (JSN) produced 09/06/2018 – 08/18/2022
- 2022-23MY Elantra N (CN7N) produced 09/15/2021 – 11/23/2023
- 2022-23MY Kona N (OSN) produced 10/05/2021 – 04/25/2023

GDS Information:

Model	Event #*	Description
Veloster N (JSN)	1141	JSN THETA2 2.0T-GDI HIGH-PRESSURE FUEL PUMP ECM IMPROVEMENT FOR LIMP-HOME CONDITION UPDATE (P0088)
Elantra N (CN7N)	1152	CN7N THETA2 2.0T-GDI HIGH-PRESSURE FUEL PUMP ECM IMPROVEMENT FOR LIMP-HOME CONDITION UPDATE (P0088)
Kona N (OSN)	1153	OSN PE THETA2 2.0T-GDI HIGH-PRESSURE FUEL PUMP ECM IMPROVEMENT FOR LIMP-HOME CONDITION UPDATE (P0088)

(*or use a later available event as listed in the GDS for ECM Update screen if one is available.)

Parts Information:

Model	Part Name / Part Number	Figure	Remarks / Kit Contents
Veloster N (JSN) / Elantra N (CN7N) / Kona N (OSN)	PUMP-HIGH PRESSURE KIT 35399-2G333QQH		PUMP-HIGH PRESSURE 35320-2GHA1 (Figure 1: QTY 1)
			BOLT-PUMP 11235-06226K (Figure 2: QTY 2)
			PIPE-HIGH PRESSURE 35305-2GPD0 (Figure 3: QTY 1)
			*PUMP GASKET (Figure 4: Transfer from old and reuse) (NOTE: Not included in kit.)

NOTE: Above parts are for high-pressure fuel pump replacement, only if the vehicle has DTC P0088. Please order the kit part number 35399-2G333QQH, not the individual parts.

SST Information:

Tool Name	Tool #	Figure	Remarks
Torque Wrench Socket	09314-3Q100		<p>Fuel Pipe Flare Nuts</p> <p>For tightening the flare nuts on both ends of the high pressure fuel pipe.</p>

NOTE 1: All dealers previously received this tool as part of the dealer's essential tool kit.

NOTE 2: Additional SST tools can be ordered through BOSCH at 1-866-539-4248 or hyundai.service-solutions.com.

NOTE 3: If further assistance is required, please contact hyundaitools@hmausa.com.

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Veloster N (JSN) / Elantra N (CN7N) / Kona N (OSN)	41D117R0	DTC P0088 INSPECTION AND ECU UPGRADE	0.3 M/H	35320-2GHA1	I14	ZZ3
	41D117R1	DTC P0088 INSPECTION, HIGH PRESSURE FUEL PUMP REPLACEMENT, AND ECU UPGRADE	1.1 M/H			

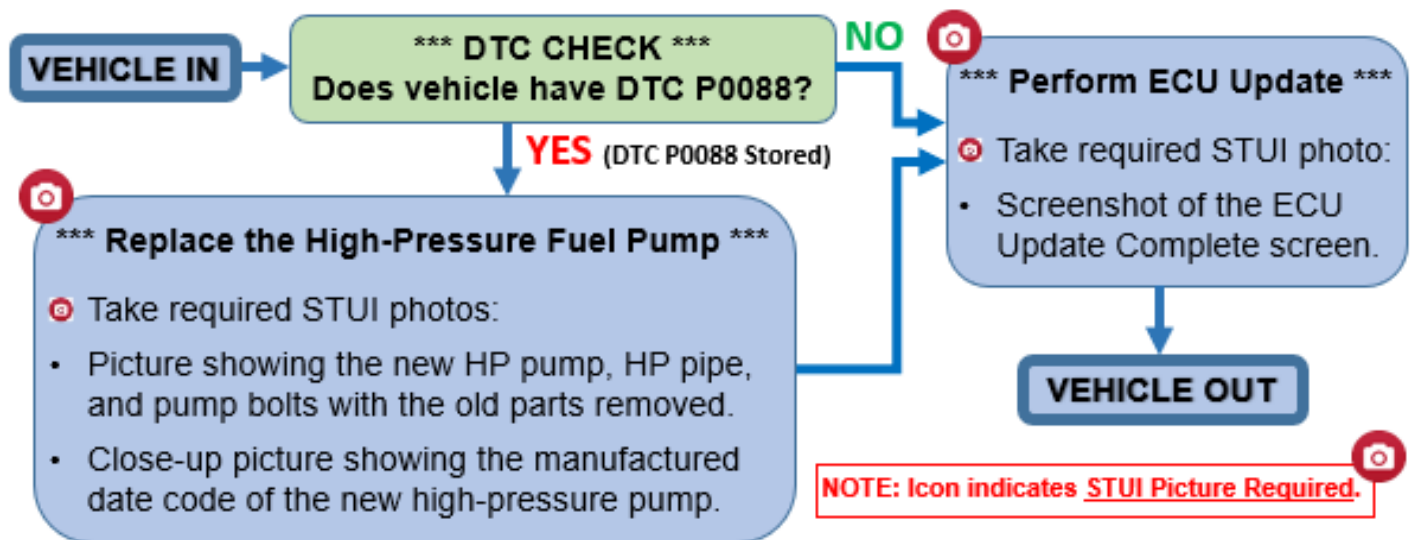
NOTE 1: Submit claim on Claim Entry Screen as “Campaign” type.

NOTE 2: If a part is found in need of replacement while performing this recall and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

NOTE 3: This TSB includes Repair validation photos. Op times include VIN, Mileage, and Repair validation photos as outlined in the Digital Documentation Policy.

NOTE 4: The incident parts are subject to callback through the normal Warranty Technical Center (WTC) parts return process. **Claim is subject to debit if the part is not returned.**

Inspection and Service Procedure Overview:



Service Procedure:

STUI

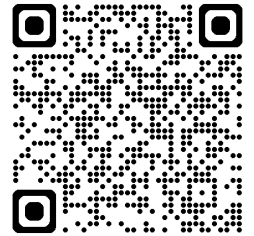


This TSB includes Repair validation photos. Refer to the latest Warranty Digital Documentation Policy for requirements.

i Information

Refer to the QR code or link below for guided video information:

<https://vimeo.com/1006705477/0992d24945>



1. Using a GDS scan tool, inspect to confirm if vehicle has DTC P0088 (or P008800).
 - **If vehicle has DTC P0088/P008800**, then follow the next step to replace the high pressure pump and perform the ECU Update.

NOTICE

If dealer attempts to order the high pressure pump kit and there is no corresponding DTC P0088/P008800 found, the order will be subject to cancellation.

- **If NO DTC P0088 (or P008800)** is found, then **skip to Step 8** to perform ECU Update.
2. Follow the Shop Manual to release the residual fuel pressure in the fuel line.
 - Engine Control / Fuel System > Fuel Delivery System > Repair Procedures > Release Residual Pressure in Fuel Line

NOTICE

When removing the fuel pump fuse, a Diagnostic Trouble Code (DTC) may occur. Delete the code with the diagnostic tool afterwards.

3. Record all radio presets and disconnect the battery negative (-) terminal.
4. Follow the Shop Manual to remove the High Pressure Fuel Pump and High Pressure Pipe.
 - Engine Control / Fuel System > Fuel Delivery System > High Pressure Fuel Pump

5. Take the following 2 STUI photos of the new parts to be installed after removing the old parts.

- Include in the 1st photo, the new High Pressure Pump, new 2 new Pump Bolts, and the new High Pressure Pipe.
- Include in the 2nd photo, close up of the new High Pressure Pump **serial number** and **date code**.

STUI



Using STUI, take photos of the new parts to be installed with last 6 digits of VIN and date of repair on a piece of paper. Ensure the picture is in focus and VIN with date of repair are legible. Upload the photo to STUI.

Example of STUI Photo



Example of STUI Photo

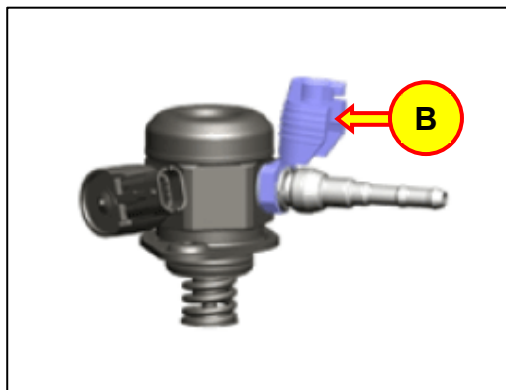
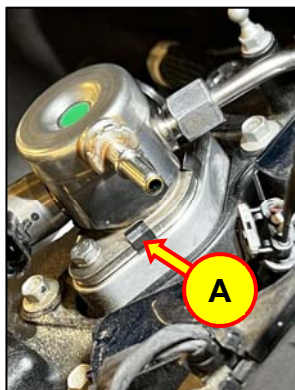


6. Follow the Shop Manual to complete the installation of the new High Pressure Fuel Pump, the new High Pressure Pipe, and all related parts.

- Engine Control / Fuel System > Fuel Delivery System > High Pressure Fuel Pump

NOTICE

Be sure to transfer the (A) shim-type metal Pump Gasket and the (B) low pressure fuel hose quick connector clamp (if equipped) over to the new High Pressure Fuel Pump.



7. Final tighten the high pressure fuel components to the following specifications.

**High Pressure Fuel Pump Bolt
Tightening Torque:**

lb-ft	10.2
N.m	13.8

**High Pressure Fuel Pipe
Tightening Torque:**

lb-ft	23.9
N.m	32.4

(Use SST 09314-3Q100 or equivalent)

8. Perform ECU Update in Auto Mode.

NOTICE

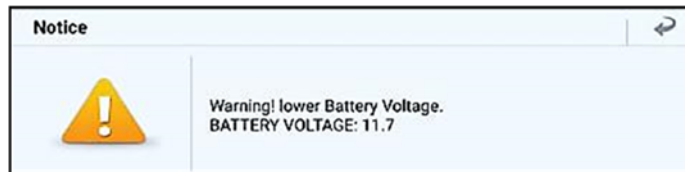
You must initially perform the GDS ECU Update in Auto Mode.

- If the ECU Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

NOTICE

GDS Vehicle Battery Low Voltage Warning:

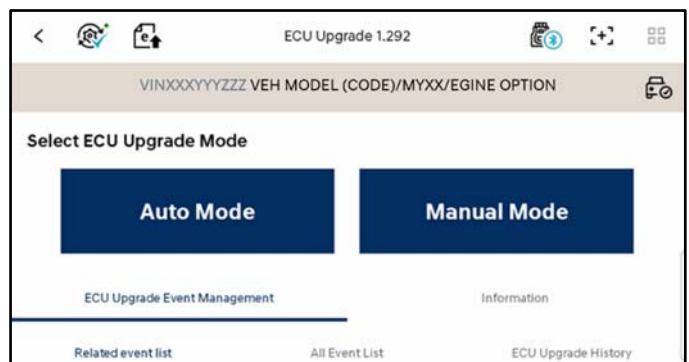
If voltage is below 12 volts per the GDS warning, then select **Back** and attach a battery charger to ensure an adequate battery charge for reliable update results. Turn ignition back **ON**, and then retry the ECU update again.



Use the Auto Mode ID Check to verify the ECU ROM ID before updating the software.

i Information

Refer to **TSB # 24-GI-012H**, "ECU Update Procedure for Tablet-Based GDS-Smart", for additional information.



- After the ECU update process shows 100% complete, follow the prompts on the screen to cycle the ignition OFF for at least 10 seconds to reset the control unit.

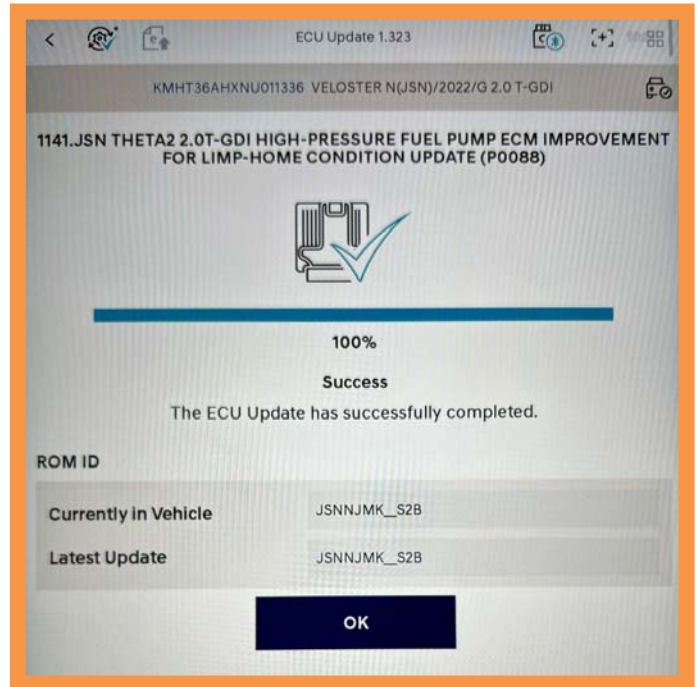
**Information**

Use the **Refresh** button to reset the timer.

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STUI

Take a screenshot of the ECU update complete screen using your tablet and upload to STUI.



- Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.
- Start the engine to confirm proper operation of the vehicle.

NOTICE

If the ECU update fails in Auto Mode, perform the update in Manual Mode using the matching ROM of the ECU Part Number and the corresponding password information.

- Turn the ignition key off for about 10 seconds, place it back in the ON position to reset the control unit before performing manual upgrade.

ROM ID Information Table: Event #1141

Model	MY	ECU Part Number	ROM ID	
			OLD	NEW
Veloster N (JSN)	19MY	39165-2GSG0	JSDJNC0ERE7A JSDJNC0ERG1B JSDJNC0ERG1C JSDJNC0ERG1D JSDJNC0ERG1E	JSDJNC0ERG1F
		39165-2GSJ0	JSDJNCPERE7A JSDJNCPERG1B JSDJNCPERG1C JSDJNCPERG1D JSDJNCPERG1E	JSDJNCPERG1F
	20MY	39165-2GSG1	JSDKNC0ERG1A JSDKNC0ERG1B JSDKNC0ERG1C JSDKNC0ERG1D JSDKNC0ERG1E	JSDKNC0ERG1F
		39165-2GSJ1	JSDKNCPERG1A JSDKNCPERG1B JSDKNCPERG1C JSDKNCPERG1D JSDKNCPERG1E	JSDKNCPERG1F
	21MY	39165-2GSN6	JSDLNCPERR1A	JSDLNCPERR1B
		39165-2GSS0	JSDLNCPERR1A	JSDLNCPERR1B
	22MY	39165-2GSN8	JSNNJMK_S2A	JSNNJMK_S2B
		39165-2GSS1	JSNNKMK_S2A	JSNNKMK_S2B

ROM ID Information Table: Event #1152

Vehicle	MY	MT/DCT	CAL ID	
			OLD	NEW
Elantra N (CN7N)	22MY	39160-2G503	CNNNJM__T2A	CNNNJM__T3B
			CNNNJM__T3A	
		39160-2G507	CNNNKM__T2A	CNNNKM__T3B
			CNNNKM__T3A	
	23MY	39160-2G530	CNPNJM__T3A	CNPNJM__T3B
		39160-2G531	CNPNKM__T3A	CNPNKM__T3B
39160-2G535		CNPNKM__FT5A	CNPNKM__FT5B	

ROM ID Information Table: Event #1153

Vehicle	MY	MT/DCT	CAL ID	
			OLD	NEW
Kona N (OSN)	22MY	39110-2G449	OSNNKM__T1A	OSNNKM__T3B
			OSNNKM__T3A	
	23MY	39110-2G457	OSPNKM__T3A	OSPNKM__T3B

Manual Mode Password: Event #1141 (JSN)

MENU	PASSWORD
JSN 2.0T GDI ECM 39165-2GSG0	0123
JSN 2.0T GDI ECM 39165-2GSJ0	1234
JSN 2.0T GDI ECM 39165-2GSG1	2345
JSN 2.0T GDI ECM 39165-2GSJ1	3456
JSN 2.0T GDI ECM 39165-2GSN6	6526
JSN 2.0T GDI ECM 39165-2GSS0	6529
JSN 2.0T GDI ECM 39165-2GSN8	6528
JSN 2.0T GDI ECM 39165-2GSS1	6522

Manual Mode Password: Event #1152 (CN7N)

MENU	PASSWORD
CN7 N THETA2 2.0T-GDI ECU 39160-2G503	2503
CN7 N THETA2 2.0T-GDI ECU 39160-2G507	2507
CN7 N THETA2 2.0T-GDI ECU 39160-2G530	2530
CN7 N THETA2 2.0T-GDI ECU 39160-2G531	2531
CN7 N THETA2 2.0T-GDI ECU 39160-2G535	2535

Manual Mode Password: Event #1153 (OSN)

MENU	PASSWORD
OS N PE THETA2 2.0T-GDI ECU 39110-2G449	2449
OS N PE THETA2 2.0T-GDI ECU 39110-2G457	2457