



Technical Service Bulletin

GROUP**RECALL****NUMBER****24-01-076G****DATE****SEPTEMBER 2024****MODEL(S)****G70 (IK)****SUBJECT:** ECU UPDATE AND DTC P0088 INSPECTION/REPAIR (RECALL 023G)**★ 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 2019-23MY G70 (IK) 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):

- 2019-23MY G70 (IK) equipped with Theta 2.0T engine produced from 05/02/2018 – 10/16/2023

GDS Information:

Model	Event #*	Description
G70 (IK)	1140	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
G70 (IK)	PUMP-HIGH PRESSURE KIT 35399-2C333QQH		PUMP-HIGH PRESSURE 35320-2CTB1 (Figure 1: QTY 1)
			BOLT-PUMP 11235-06226K (Figure 2: QTY 2)
			PIPE-HIGH PRESSURE 35305-2CTA0 (Figure 3: QTY 1)
			GASKET-PORT 28312-2CTA0 (Figure 4: QTY 1)
			GASKET-ETC 28313-2CTA0 (Figure 5: QTY 1)
			*PUMP GASKET (Figure 6: Transfer from old and reuse)
	PINK ANTIFREEZE (1 QUART) 00232-19098WAR		(QTY 2) Allowance for 2 quarts have been included if the High Pressure Fuel Pump replacement was necessary. - Do not use 100% full strength. Prepare coolant mixed with distilled/filtered water to refill the cooling system. (35 to 50% antifreeze, diluted with water)

NOTE: Above parts are for high-pressure fuel pump replacement, only if the vehicle has DTC P0088. Please order the kit part number 35399-2C333QQH, not the individual parts.

SST Information:

Tool Name	Tool #	Figure	Remarks
Torque Wrench Socket	09314-3Q100	 	 For tightening the flare nuts on both ends of the high pressure fuel pipe.

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

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

NOTE 3: If further assistance is required, please contact genesistools@gma.com.

Warranty Information:

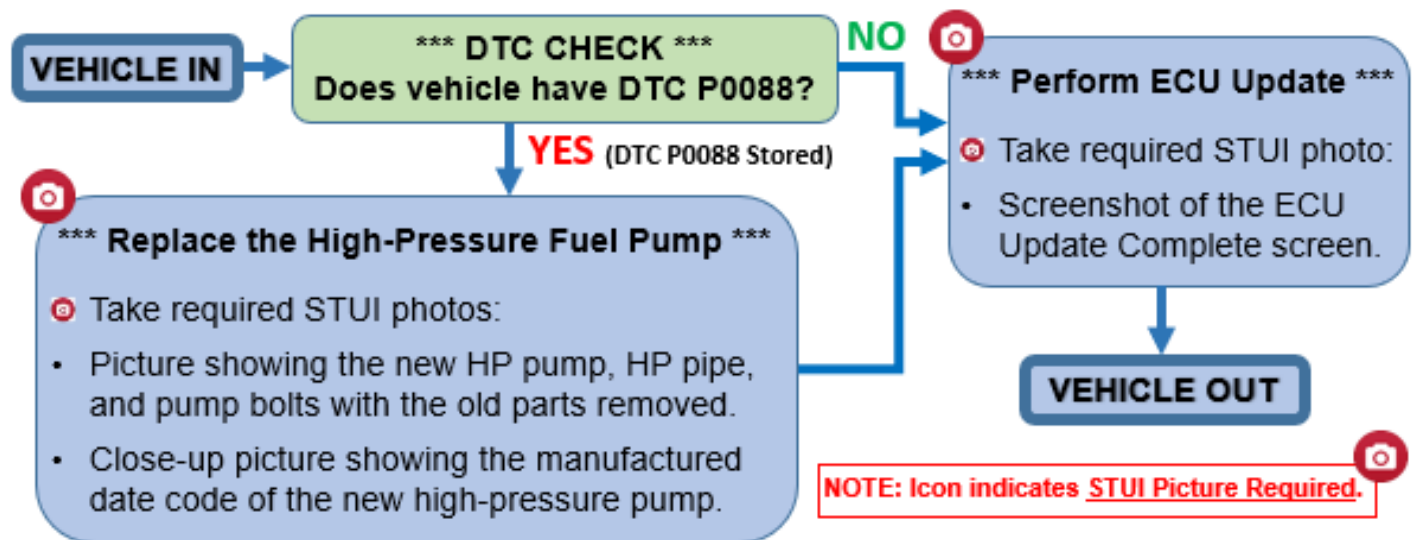
Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
G70 (IK)	41D110R0	DTC P0088 INSPECTION AND ECU UPGRADE	0.3 M/H	35320-2CTB1	I14	ZZ3
	41D110R1	DTC P0088 INSPECTION, HIGH PRESSURE FUEL PUMP REPLACEMENT, AND ECU UPGRADE	2.1 M/H			

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:

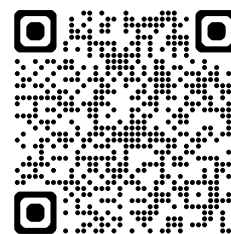
Service Procedure:**STUI**

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/1006691482>



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.
 - **If NO DTC P0088** (or P008800) is found, then **skip to Step 10** 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 Intake Manifold.
 - Engine Mechanical System > Intake and Exhaust System > Intake Manifold > Repair Procedures > Removal and Installation
5. Follow the Shop Manual to remove the High Pressure Fuel Pipe.
 - Engine Control / Fuel System > Fuel Delivery System > Fuel Line > High Pressure Fuel Pipe
6. Follow the Shop Manual to remove the High Pressure Fuel Pump.
 - Engine Control / Fuel System > Fuel Delivery System > High Pressure Fuel Pump > Repair Procedures

7. 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 **from the driver side of the vehicle** with the intake manifold still removed.
 - 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



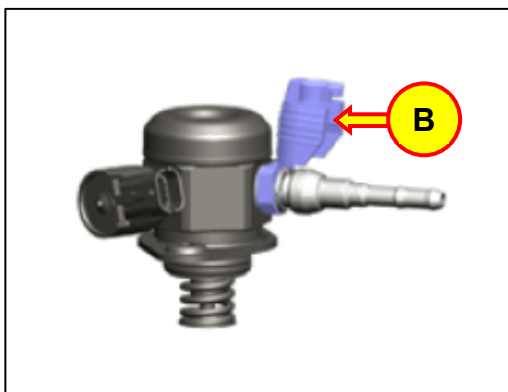
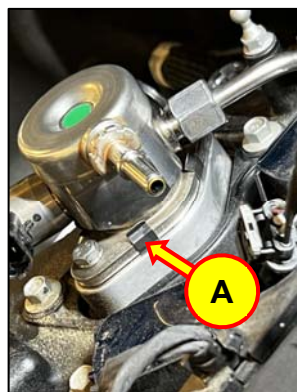
Example of STUI Photo



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

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.



9. 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)

10. Perform ECU Update in Auto Mode.

NOTICE

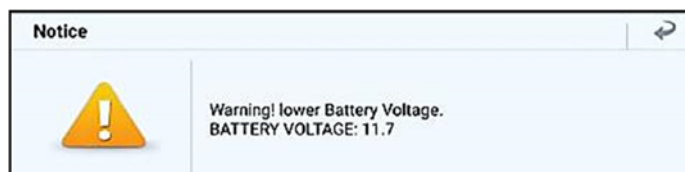
You must initially perform the GDS ECU Update in Auto Mode.

- 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.

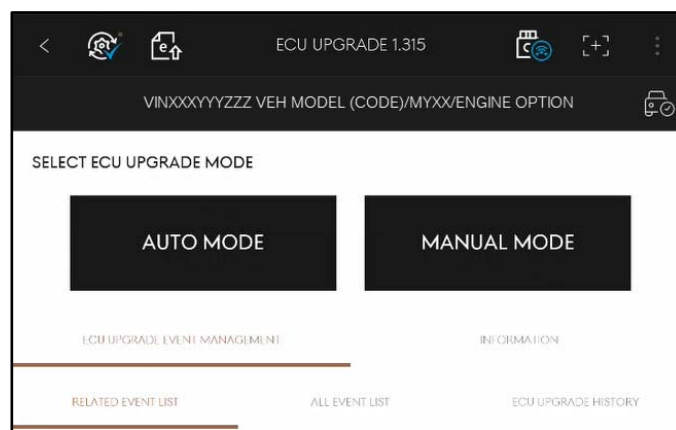


Use the Auto Mode ID Check to verify the ECU ROM ID before updating the software.



Information

Refer to **TSB # 24-GI-016G**, “ECU Update Procedure for Tablet-Based Genesis-Smart”, for additional information.



11. 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.

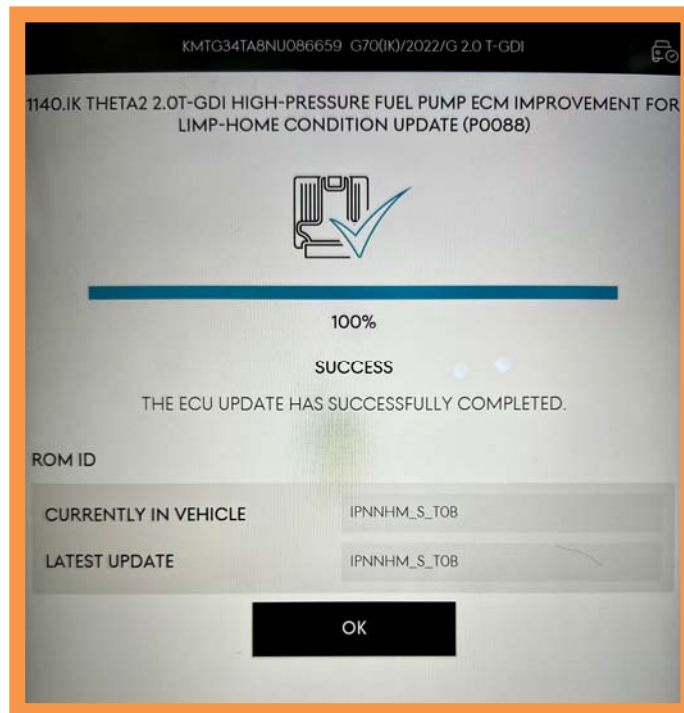
**Information**

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

- 12.

STUI

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



13. Perform an **All Systems Fault Code** search and erase DTC history that had incidentally occurred from the ECU update.
14. 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 #1140

VEHICLE	MY	PART NO.	ECU CAL ID	
			OLD	NEW
G70 (IK)	19MY	39131-2CCK0	IKDINC0TSE1A IKDINC0TSE1C IKDJNC0TSF0A IKDJNC0TSF0B IKDJNC0TSF0C	IKDJNC0TSF0D
		39131-2CCK1	IKDINC0FSE1A IKDINC0FSE1C IKDJNC0FSF0A IKDJNC0FSF0B IKDJNC0FSF0C	IKDJNC0FSF0D
		39131-2CDK0 39131-2CEK0	IKDINCNTSE1A IKDINCNTSE1C IKDJNCNTSF0A IKDJNCNTSF0B IKDJNCNTSF0C	IKDJNCNTSF0D
		39133-2CDK5	IKDJNCNMRE3B IKDJNCNMRF0A IKDJNCNMRF0B	IKDJNCNMRF0C
		39131-2CDK1 39131-2CEK1	IKDJNCNFSF0A IKDJNCNFSF0B IKDJNCNFSF0C	IKDJNCNFSF0D
	20MY	39165-2CAB0	IKDKNCNMRG1A IKDKNCNMRG1B IKDKNCNMRG2A	IKDKNCNMRG2B
		39161-2CBN0	IKDKNC0TSG1A IKDKNC0TSG1B IKDKNC0TSG2A IKDKNC0TSG2B	IKDKNC0TSG2C
		39161-2CBP0	IKDKNC0FSG1A IKDKNC0FSG1B IKDKNC0FSG2A IKDKNC0FSG2B	IKDKNC0FSG2C
		39161-2CBR0	IKDKNCNTSG1A IKDKNCNTSG1B IKDKNCNTSG2A IKDKNCNTSG2B	IKDKNCNTSG2C
		39161-2CBS0	IKDKNCNFSG1A IKDKNCNFSG1B IKDKNCNFSG2A IKDKNCNFSG2B	IKDKNCNFSG2C
		39161-2CBR1	IKDKNCVTSG1A IKDKNCVTSG2A IKDKNCVTSG2B	IKDKNCVTSG2C
		39161-2CBS1	IKDKNCVFSG1A IKDKNCVFSG2A IKDKNCVFSG2B	IKDKNCVFSG2C

		39165-2CAB1	IKDKNCVMRG1A IKDKNCVMRG2A	IKDKNCVMRG2B
	21MY	39161-2CBN1	IKDLNC0TSG2A IKDLNC0TSG2B	IKDLNC0TSG2C
		39161-2CBP1	IKDLNC0FSG2A IKDLNC0FSG2B	IKDLNC0FSG2C
		39161-2CBR2	IKDLNCVTSG2A IKDLNCVTSG2B	IKDLNCVTSG2C
		39165-2CAB2	IKDLNCVMRG2A	IKDLNCVMRG2B
		39161-2CBS2	IKDLNCVFSG2A IKDLNCVFSG2B	IKDLNCVFSG2C
		39163-2CBN1	IKDLNC0TSG2F IKDLNC0TSG2G	IKDLNC0TSG2H
		39163-2CBP1	IKDLNC0FSG2F IKDLNC0FSG2G	IKDLNC0FSG2H
		39163-2CBR2	IKDLNCVTSG2F IKDLNCVTSG2G	IKDLNCVTSG2H
		39163-2CBS2	IKDLNCVFSG2F IKDLNCVFSG2G	IKDLNCVFSG2H
	22MY	39100-2C602	IPNNHM_S_T0A	IPNNHM_S_T0B
		39100-2C604	IPNNHM_Y_T0A	IPNNHM_Y_T0B
	23MY	39100-2C695	IPPNHM_S_T0B	IPPNHM_S_T0C
		39100-2C696	IPPNHM_Y_T0B	IPPNHM_Y_T0C

Manual Mode Password: Event #1140 (IK)

MENU	PASSWORD
IK 2.0T GDI ECM 39131-2CCK0	3120
IK 2.0T GDI ECM 39131-2CCK1	3121
IK 2.0T GDI ECM 39131-2CDK0/EK0	3126
IK 2.0T GDI ECM 39133-2CDK5	3925
IK 2.0T GDI ECM 39131-2CDK1/EK1	3122
IK 2.0T GDI ECM 39165-2CAB0	0219
IK 2.0T GDI ECM 39161-2CBN0	2121
IK 2.0T GDI ECM 39161-2CBP0	6191
IK 2.0T GDI ECM 39161-2CBR0	9833
IK 2.0T GDI ECM 39161-2CBS0	2222
IK 2.0T GDI ECM 39161-2CBR1	1110
IK 2.0T GDI ECM 39161-2CBS1	6424
IK 2.0T GDI ECM 39165-2CAB1	0221
IK 2.0T GDI ECM 39161-2CBN	1116
IK 2.0T GDI ECM 39161-2CBP1	4893
IK 2.0T GDI ECM 39161-2CBR2	0938
IK 2.0T GDI ECM 39165-2CAB2	8888
IK 2.0T GDI ECM 39161-2CBS2	6632
IK 2.0T GDI ECM 39163-2CBN1	9876

IK 2.0T GDI ECM 39163-2CBP1	3956
IK 2.0T GDI ECM 39163-2CBR2	5210
IK 2.0T GDI ECM 39163-2CBS2	8949
IK PE 2.0T GDI ECM 39100-2C602	2602
IK PE 2.0T GDI ECM 39100-2C604	2604
IK PE 2.0T GDI ECM 39100-2C695	2695
IK PE 2.0T GDI ECM 39100-2C696	2696