



Technical Service Bulletin

GROUP	NUMBER
ENGINE ELECTRICAL	23-EE-008G
DATE:	MODEL:
APRIL 2023	G70 (IK)

SUBJECT:	ECM UPDATE - ISG ACTIVE CONDITION IMPROVEMENT
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Description: This bulletin addresses a condition of Idle Stop Go (ISG) inoperative not turning off the engine and provides information related to an ECU software update for improvement of:

- ISG operation in relation to the battery SOH (State Of Health) condition (deleted as a criteria).
- ISG engagement with satisfied battery SOC (State Of Charge).

Applicable Vehicles:

- 2019-2021MY G70 (IK) vehicles with 2.0L Turbo GDI engine.

GDS Information:

Event #	Description
865	IK ECM UPGRADE – ISG ACTIVE CONDITION IMPROVEMENT (DELETE SOH CONDITION)

NOTES:

- After the ECU Update process shows 100% complete, cycle the ignition key to OFF for at least 30 seconds to reset the control unit. This step is important for establishing normal powertrain communication and to prevent system errors.
- Clear DTC(s) present after the ECU update.
- Start engine to confirm proper operation of the vehicle.

WARNING



GDS Vehicle Battery Voltage Warning:

If voltage is below 12 volts as per the GDS warning, then select **Back** and run the engine at least 15 minutes to reach an adequate battery state of charge to prevent ECU Update failure. Cycle the ignition **OFF/ON** before retrying ECU update again.

NOTICE

You must initially perform all GDS ECU Updates in Auto Mode.
If the ECU Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

Warranty Information:

VEHICLE	OP CODE	OP NAME	OP TIME	CAUSAL PART	NATURE	CAUSE
G70 (IK)	39130F13	ECU UPGRADE	0.3 M/H	39131-2CCK0	I3T	ZZ3

NOTE: Normal warranty applies.

ROM ID Information Table:

VEH	TM	OPTION	ECU P/N	ROM ID	
				OLD	NEW
IK 2.0T-GDI	8AT	2WD (19MY)	39131-2CCK0	IKDINC0TSE1C IKDJNC0TSF0A IKDJNC0TSF0B	IKDJNC0TSF0C
		AWD (19MY)	39131-2CCK1	IKDINC0FSE1C IKDJNC0FSF0A IKDJNC0FSF0B	IKDJNC0FSF0C
		19" Tire 2WD (19MY)	39131-2CDK0	IKDINCNTSE1C IKDJNCNTSF0A IKDJNCNTSF0B	IKDJNCNTSF0C
		19" Tire AWD (19MY)	39131-2CDK1	IKDINCNFSE1C IKDJNCNFSF0A IKDJNCNFSF0B	IKDJNCNFSF0C
		2WD Sport (19MY)	39131-2CEK0	IKDINCNTSE1C IKDJNCNTSF0A IKDJNCNTSF0B	IKDJNCNTSF0C
		AWD Sport (19MY)	39131-2CEK1	IKDINCNFSE1C IKDJNCNFSF0A IKDJNCNFSF0B	IKDJNCNFSF0C
		2WD (20MY)	39161-2CBN0	IKDKNC0TSG1A IKDKNC0TSG1B IKDKNC0TSG2A	IKDKNC0TSG2B
		AWD (20MY)	39161-2CBP0	IKDKNC0FSG1A IKDKNC0FSG1B IKDKNC0FSG2A	IKDKNC0FSG2B
		19" Tire 2WD (20MY)	39161-2CBR0	IKDKNCNTSG1A IKDKNCNTSG1B IKDKNCNTSG2A	IKDKNCNTSG2B
		19" Tire AWD (20MY)	39161-2CBS0	IKDKNCNFSG1A IKDKNCNFSG1B IKDKNCNFSG2A	IKDKNCNFSG2B
		19" Tire 2WD Sport (20MY)	39161-2CBR1	IKDKNCVTSG1A IKDKNCVTSG2A IKDKNCVTSG1A IKDKNCVTSG2A	IKDKNCVTSG2B
		19" Tire AWD Sport (20MY)	39161-2CBS1	IKDKNCVFSG1A IKDKNCVFSG2A IKDKNCVFSG1A IKDKNCVFSG2A	IKDKNCVFSG2B
		2WD (21MY)	39161-2CBN1	IKDLNC0TSG2A	IKDLNC0TSG2B
		AWD (21MY)	39161-2CBP1	IKDLNC0FSG2A	IKDLNC0FSG2B
		19" Tire 2WD Sport (21MY)	39161-2CBR2	IKDLNCVTSG2A	IKDLNCVTSG2B
		19" Tire AWD Sport (21MY)	39161-2CBS2	IKDLNCVFSG2A	IKDLNCVFSG2B
		2WD Fuel Sender Change (21MY)	39162-2CBN1	IKDLNC0TSG2F	IKDLNC0TSG2G
		AWD Fuel Sender Change (21MY)	39162-2CBP1	IKDLNC0FSG2F	IKDLNC0FSG2G
		19" Tire 2WD Sport Fuel Sender Change (21MY)	39162-2CBR2	IKDLNCVTSG2F	IKDLNCVTSG2G
		19" Tire AWD Sport Fuel Sender Change (21MY)	39162-2CBS2	IKDLNCVFSG2F	IKDLNCVFSG2G

NOTE:

If the Automatic ECU Upgrade process fails, cycle the ignition key to OFF for at least 30 seconds to reset the control unit. Then resume programming using the Manual ECU Upgrade processes.

After the ECU Upgrade process shows 100% complete, cycle the ignition key again to OFF for at least 30 seconds to reset the control unit. This step is important for establishing normal powertrain communication and to prevent system errors.

MANUAL MODE PASSWORD INFORMATION TABLE:

ECM MENU (#865)	PASSWORD
IK 2.0 T-GDI 8AT 2WD (19MY) 39131-2CCK0	6501
IK 2.0 T-GDI 8AT AWD (19MY) 39131-2CCK1	6502
IK 2.0 T-GDI 8AT 2WD (19MY) 39131-2CEK0	6503
IK 2.0 T-GDI 8AT AWD (19MY) 39131-2CEK1	6504
IK 2.0 T-GDI 8AT 19" Tire 2WD (19MY) 39131-2CDK0	6503
IK 2.0 T-GDI 8AT 19" Tire AWD (19MY) 39131-2CDK1	6504
IK 2.0 T-GDI 8AT 2WD (20MY) 39161-2CBN0	6505
IK 2.0 T-GDI 8AT AWD (20MY) 39161-2CBP0	6606
IK 2.0 T-GDI 8AT 19" Tire 2WD (20MY) 39161-2CBR0	6607
IK 2.0 T-GDI 8AT 19" Tire AWD (20MY) 39161-2CBS0	6608
IK 2.0 T-GDI 8AT 19" Tire 2WD Sport (20MY) 39161-2CBR1	6609
IK 2.0 T-GDI 8AT 19" Tire AWD Sport (20MY) 39161-2CBS1	6610
IK 2.0 T-GDI 8AT 2WD (21MY) 39161-2CBN1	6611
IK 2.0 T-GDI 8AT AWD (21MY) 39161-2CBP1	6612
IK 2.0 T-GDI 8AT 19" Tire 2WD Sport (21MY) 39161-2CBR2	6613
IK 2.0 T-GDI 8AT 19" Tire AWD Sport (21MY) 39161-2CBS2	6614
IK 2.0 T-GDI 8AT 2WD Fuel Sender Change (21MY) 39162-2CBN1	6615
IK 2.0 T-GDI 8AT AWD Fuel Sender Change (21MY) 39162-2CBP1	6616
IK 2.0 T-GDI 8AT 19" Tire 2WD Sport Fuel Sender Change (21MY) 39162-2CBR2	6617
IK 2.0 T-GDI 8AT 19" Tire AWD Sport Fuel Sender Change (21MY) 39162-2CBS2	6618

NOTE: After the ECU update has been completed:

- Clear any ECM DTC(s) after the ECU update.
- Start the engine to confirm proper operation of the vehicle.