

December 8, 2023

Version 1

MIL is On with DTC P2DE1**AFFECTED VEHICLES**

Year	Model	Trim Level	VIN Range
2021-22	HR-V	ALL	ALL

SYMPTOM

The MIL is on with DTC P2DE1 (Cold Start Air-Fuel Ratio Control System Rich).

POSSIBLE CAUSE

During engine start in cold conditions, it is possible for air-fuel ratio to exceed DTC P2DE1 rich criteria.

CORRECTIVE ACTION

Update the PGM-FI software.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
1255D8	Update the PGM-FI software	0.2 hr	03214	03217	A23100A	37805-51M-AA1

Skill Level: Repair Technician

CUSTOMER INFORMATION: The information in this bulletin is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely maintain your vehicle. These procedures should not be attempted by "do-it-yourselfers," and you should not assume this bulletin applies to your vehicle, or that your vehicle has the condition described. To determine whether this information applies, contact an authorized Honda automobile dealer.

SOFTWARE INFORMATION

NOTE: Unnecessary or incorrect repairs resulting from a failure to update the diagnostic and reprogramming software are not covered under warranty.

Before beginning the repair, make sure all diagnostic and reprogramming software are updated as listed.

i-HDS Software Version	1.008.024 or later
HDS Software Version	3.105.028 or later
Honda ECU Reprogramming	3.6.0.0 or later

For more information about updating vehicle systems, refer to service bulletin **22-100**, *Updating Control Units/Modules with the ECU Reprogramming Application*.

Update only the systems and software listed in this service bulletin.

Do not use the MongoosePRO VCI for this service bulletin as it is not an American Honda-approved device.

Year/Model	Vehicle System	Program ID (or later)
HR-V 2WD LX	PGM-FI	37805-51M-AA20
HR-V 2WD Sport	PGM-FI	37805-51M-AB20
HR-V AWD LX	PGM-FI	37805-51M-AD20
HR-V AWD Sport	PGM-FI	37805-51M-AE20
HR-V 2WD EX, EX-L	PGM-FI	37805-51M-AC30
HR-V AWD EX, EX-L, Touring	PGM-FI	37805-51M-AF30

REPAIR PROCEDURE

NOTICE

- Make sure the 12-volt battery is fully charged before starting an update.
 - Connect a fully charged jumper battery pack, the Midtronics GR8-1100P AST in Power Supply Mode or the Midtronics DCA-8000 Dynamic Diagnostic Charging System in Reflash Mode, directly to the vehicle's 12-volt battery. Leave it connected during the entire procedure to maintain a steady voltage.
 - If the vehicle's 12-volt battery drops below 10 volts during the update, the programming status bar may not present accurately, or the Honda ECU Reprogramming application may display an error message.
 - Control module failure caused by the improper completion of a software update (early key cycle, low battery voltage, disconnected DLC cable, etc.) is not covered by warranty.
 - If an error occurs during the update or the i-HDS freezes, **do not disconnect the battery or turn the ignition to OFF**. Reboot the i-HDS and start over.
 - To prevent control unit damage, do not operate anything electrical (headlights, audio system, brakes, A/C, power windows, door locks, etc.) during the update.
 - Warranty reimbursement for technician labor is not allowed for routine checking/installation of any available software update.
1. Update the PGM-FI software, see service bulletin 22-100 *Updating Control Units/Modules with the Honda ECU Reprogramming Application*.
 2. Do an **ALL DTC CHECK** and clear any codes that may have set during the update.