


 Applies To: **2009 Civic Hybrid – ALL**

June 16, 2009

IMA Indicator Is On With DTC P0A7F, or Low-Charged IMA Battery Causes Low Power When Accelerating From a Stop

SYMPTOM

The IMA indicator is on with DTC P0A7F (battery module deterioration), or the vehicle has low power when accelerating from a stop (generally up to 15 mph) with a very low-charged IMA battery.

PROBABLE CAUSE

The IMA battery software misinterprets sensor inputs, causing DTC P0A7F (battery module deterioration) to be set, or a very low-charged IMA battery causes low power when accelerating from a stop.

CORRECTIVE ACTION

Verify the customer complaint and, if needed, update the IMA battery software and the PGM-FI software. If DTC P0A7F is indicated during warm weather conditions (68° F or above), you may also need to replace the IMA battery.

NOTE: For the low power condition, the new software improves the reserve of the IMA battery by increasing its rate of charge as the charge is depleted. This can improve vehicle acceleration from a stop.

SOFTWARE INFORMATION

HDS Software Version:
2.018.007 (May 2009) (black) **or later**.

Control Module (CM) Update:
Application Version V6.17.03 **or later**.
Database Update 20-APR-2009 **or later**.

To avoid an incorrect repair that would not be covered under warranty, use the software version listed above or a later version.

The updated PGM-FI and IMA battery software program IDs and P/Ns are shown below. If these, **or later** program IDs are the current ones displayed during the update, the software for this service bulletin is already installed.

Year/Model/System	Program ID	Program P/N
2009 Civic Hybrid PGM-FI	MXA130 (or later)	37805-RMX-A13 (or later)
2009 Civic Hybrid IMA Battery	MXA110 (or later)	1K101-RMX-A11 (or later)

NOTE: Beginning with this HDS software release, three new DTCs may be stored after the software is installed. These DTCs can be erased only after both updates (PGM-FI and IMA battery) are completed. For more information on the three new DTCs, refer to Service Bulletin 09-026, *2006–09 Civic Hybrid: New DTCs U0301, U0302, and U0312*.

PARTS INFORMATION

NOTE: To order an IMA battery, call **877-785-9175**.
IMA Battery: P/N 1D010-RMX-A02RM, H/C 9115247

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

Software Update:

OP#	Description	FRT
125517	Update the PGM-FI software.	0.3
A	Add for updating the IMA battery software.	0.3

Failed Part: P/N 1B100-RMX-A12
H/C 9053497

Defect Code: 03214

Symptom Code: 03203

Skill Level: Repair Technician

IMA Battery Replacement:

Operation Number: 1181H5

Flat Rate Time: 1.0 hour

Failed Part: P/N 1D010-RMX-A02
H/C 9053562

Defect Code: 03214

Symptom Code: 01201

Skill Level: Repair Technician

Out of warranty: Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Parts and Service Manager or your Zone Office. You must request consideration, and get a decision, before starting work.



DIAGNOSIS

1. Find out which symptom the customer is experiencing:
 - If the symptom is that the IMA indicator stays on, go to REPAIR PROCEDURE A.
 - If the symptom is low power when accelerating from a stop, go to step 2.
2. Ask the customer when the low power occurs:
 - If the low power occurs when the IMA battery indicator is showing less than half of a charge on the IMA battery, updating the software should improve the condition. Go to REPAIR PROCEDURE B.
 - If the low power occurs every time the vehicle accelerates from a stop, even when the IMA battery indicator is showing half or more of a charge on the IMA battery, the software update won't improve the condition. Continue with normal troubleshooting to find the cause of the low power.

REPAIR PROCEDURE A

1. Connect the HDS to the vehicle's DLC.
2. Turn the ignition switch to ON (II), and check for DTCs:
 - If IMA DTC P0A7F is stored, go to step 3.
 - If DTCs other than P0A7F are stored, this service bulletin does not apply, Troubleshoot any other DTCs that you found.
3. Check the IMA battery software version with the HDS. (The software version is at the top of the HDS DTC screen or the DATA LIST screen.)
 - If the IMA battery software version **is not** 1K101-RMX-A11 or later, go to step 4.
 - If the IMA battery software version **is** 1K101-RMX-A11 or later, replace the IMA battery, then clear the DTC, and return the vehicle to the customer:
 - Refer to page 12-187 of the *2006–2009 Civic Hybrid Service Manual*, or
 - Online, enter keywords **BAT MOD REM**, and select **Battery Module Removal/Installation** from the list.
4. Check the freeze data for IMA battery temperature sensors 1, 2, and 3 with the HDS.

Is the recorded temperature for any of the sensors higher than 68° F (20° C)?

Yes - Go to step 5.
No - Go to step 6.
5. Replace the IMA battery:
 - Refer to page 12-187 of the *2006–2009 Civic Hybrid Service Manual*, or
 - Online, enter keywords **BAT MOD REM**, and select **Battery Module Removal/Installation** from the list.

6. Update the IMA battery software *and* the PGM-FI software with the HDS. Refer to Service Bulletin 01-023, *Updating Control Units/Modules*.
7. Use the HDS to clear all DTCs from all systems.
8. Do the CKP pattern learn procedure with the HDS:
 - In the ADJUSTMENT MENU of the HDS, select **CRANK PATTERN**.
 - Select **CRANK PATTERN LEARNING**, and follow the screen prompts.
9. Do the idle learn procedure:
 - Make sure all electrical accessories (A/C, radio, lights, etc.) are off.
 - Start the engine, and let it run until it reaches normal operating temperature (the cooling fans cycle twice).
 - Let the engine idle for 10 minutes.
10. Select **START CLUTCH FEEDBACK LEARN** on the HDS, and follow the screen prompts to calibrate the start clutch pressure control.

REPAIR PROCEDURE B

1. Connect the HDS to the vehicle's DLC.
2. Turn the ignition switch to ON (II), and check the IMA battery software version with the HDS. (The software version is at the top of the HDS DTC screen or the DATA LIST screen.)
 - If the IMA battery software version **is not** 1K101-RMX-A11 or later, go to step 3.
 - If the IMA battery software version **is** 1K101-RMX-A11 or later, this service bulletin does not apply. Continue with normal troubleshooting.
3. Update the IMA battery software *and* the PGM-FI software with the HDS. Refer to Service Bulletin 01-023, *Updating Control Units/Modules*.
4. Use the HDS to clear all DTCs from all systems.
5. Do the CKP pattern learn procedure with the HDS:
 - In the ADJUSTMENT MENU of the HDS, select **CRANK PATTERN**.
 - Select **CRANK PATTERN LEARNING**, and follow the screen prompts.
6. Do the idle learn procedure:
 - Make sure all electrical accessories (A/C, radio, lights, etc.) are off.
 - Start the engine, and let it run until it reaches normal operating temperature (the cooling fans cycle twice).
 - Let the engine idle for 10 minutes.
7. Select **START CLUTCH FEEDBACK LEARN** on the HDS, and follow the screen prompts to calibrate the start clutch pressure control.