

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

March 16, 2011

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

(Supersedes 09-025, dated June 16, 2009, to revise the information marked by the black bars)

### REVISION SUMMARY

Under WARRANTY CLAIM INFORMATION, some operation number and flat rate time information for *Replacing the IMA Battery* was changed.

### SYMPTOM

The IMA indicator may come on with DTC P0A7F (battery module deterioration), and the vehicle may have low power when accelerating from a stop.

### PROBABLE CAUSE

The IMA battery software misinterprets sensor inputs, causing DTC P0A7F be set, and/or a low-charged IMA battery causes low power when accelerating from a stop.

### CORRECTIVE ACTION

If needed, update the IMA battery software and the PGM-FI software. If DTC P0A7F is indicated you may also need to replace the IMA battery.

### SOFTWARE INFORMATION

HDS Software Version:

2.017.040 (April 2009) (purple) **or later**.

Control Module (CM) Update:

Database Update 26-MAR-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, two DTCs (U0301 and U0312) 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 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, refer to Service Bulletin 10-061, *IMA Battery Exchange Program*.

IMA Battery:

P/N 1D010-RMX-A02RM

### WARRANTY CLAIM INFORMATION

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

Flat Rate Time: 0.3 hour

Failed Part: P/N 1B100-RMX-A12

Defect Code: 03214

Symptom Code: 03203

Skill Level: Repair Technician

#### Replacing the IMA Battery:

OP#	Description	FRT
1181H5	Replace IMA Battery	1.0
B	Retrieve and clear codes	0.3

Failed Part: P/N 1D010-RMX-A02

Defect Code: 03214

Symptom Code: 01201

Skill Level: Repair Technician

**REPAIR PROCEDURE**

1. 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, **and** the IMA indicator is on, go to step 2.
  - If the IMA battery software version is **not** 1K101-RMX-A11 or later, the IMA indicator is on, and the customer complaint is low power when accelerating from a stop, go to step 4.
  - If the IMA battery software version is 1K101-RMX-A11 or later, **and** the IMA indicator is on, go to step 3.
  - If the IMA battery software version is 1K101-RMX-A11 or later, the IMA indicator is off, and the customer complaint is low power when accelerating from a stop, this service bulletin does not apply, continue with normal troubleshooting.
2. Clear the DTC, and test-drive the vehicle.

*Does DTC P0A7F return?*

**Yes** – Go to step 3.

**No** – Go to step 4.
3. Replace the IMA battery, then 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. Update the IMA battery software *and* the PGM-FI software with the HDS. Refer to Service Bulletin 01-023, *Updating Control Units/Modules*.
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.
8. Use the HDS to clear all DTCs from all systems.