

Product Update: Premature IMA Battery Module Failure

(Supersedes 06-026, dated May 13, 2006, to update the information marked by the black bars)

BACKGROUND

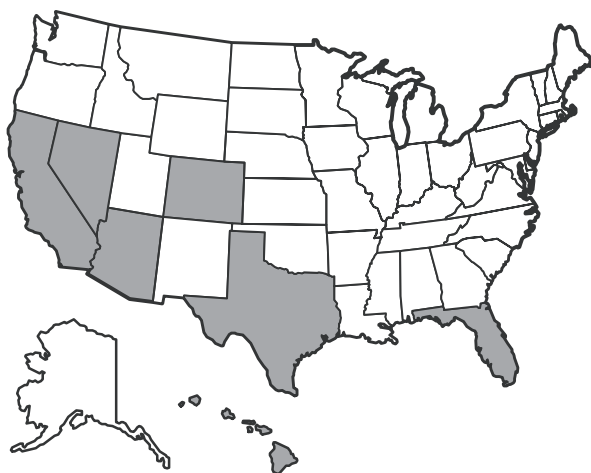
NOTE: Because of a class action settlement, the warranty coverage for the IMA battery on 2002–04 Insights purchased or leased between April 13, 2002, and November 7, 2006, is now 10 years or **157,500 miles**, whichever occurs first. For more information, refer to Service Bulletin 06-085, *Warranty Extension: Vehicle Warranty Mileage*.

American Honda is announcing a product update to replace certain IMA components to help prevent IMA battery deterioration. This product update applies only in states where there is an abnormally high replacement rate for IMA batteries.

The IMA battery control module(s) allows the battery to overcharge. Occasional overcharging is a desirable function, but too many frequently repeated cycles of overcharge can damage the IMA battery. This damage is the result of excessive current and heat build up. Unique local topographical and ambient conditions in affected states, combined with a driving cycle that typically keeps the IMA battery fully charged, create this potential problem.

VEHICLES AFFECTED

This product update affects all 2000–04 Insights registered in the states of Arizona, California, Colorado, Florida, Hawaii, Nevada, and Texas, the shaded states on this map:



To verify vehicle eligibility, check for at least one of these items:

- The customer has a notification letter.
- The vehicle is shown as eligible on a VIN status inquiry.

In addition to these verification items, check for a punch mark above the 14th character of the engine compartment VIN. A punch mark in that location means the product update has already been completed.

CUSTOMER NOTIFICATION

Owners of affected vehicles within the seven states have received a notification of this product update. An example of the notification is at the end of this service bulletin.

CORRECTIVE ACTION

Based on the model and/or model year, install the appropriate IMA repair kit or part.

NOTE: Make sure to order the correct kit or part for the vehicle you are working on.

IMA Repair Kit (2000–01 Insight with M/T):

P/N 06060-PHM-307, H/C 8317562
 Contains BCM (P/N 1K100-PHM-A01,
 H/C 7687452), and MCM (P/N 1K000-PHM-070,
 H/C 7595390)

IMA Repair Kit (2001 Insight with CVT):

P/N 06060-PHM-309, H/C 8317570
 Contains BCM (P/N 1K100-PHM-A01,
 H/C 7687452), and MCM (P/N 1K000-PHM-906,
 H/C 7595408)

Battery Condition Monitor (All 2002–04 Insights):

P/N 1K100-PHM-A01, H/C 7687452

WARRANTY CLAIM INFORMATION

NOTE: On affected vehicles, the IMA battery is now covered for 10 years or 150,000 miles, whichever occurs first. For details, refer to Service Bulletin 06-027, *Warranty Extension: IMA Battery*.

| OP# | Description | FRT |
|--------|--|-----|
| 118121 | Replace battery condition monitor or motor control module <i>and</i> battery condition monitor | 0.8 |

Failed Part: P/N 1K000-PHM-000
H/C 6340608

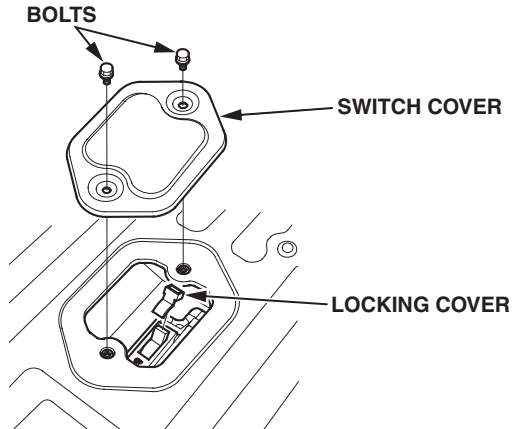
Defect Code: 5B900

Symptom Code: Q1100

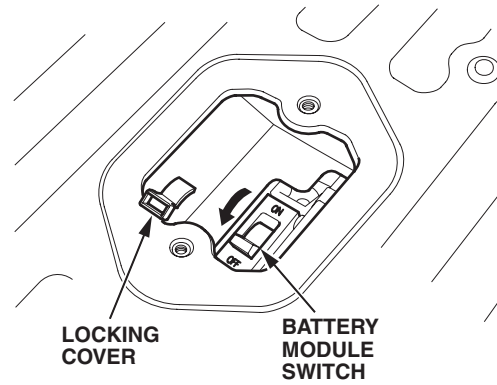
Skill Level: Repair Technician

REPAIR PROCEDURE

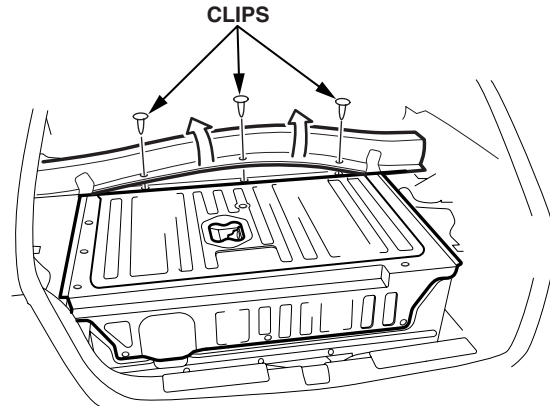
1. Turn the ignition switch to the LOCK (0 position).
2. Remove cargo floor mat:
 - Refer to page 20-44 of the *2000–2006 Insight Service Manual*, or
 - Online, enter keywords **FLOOR MAT**, then select **Interior Trim Removal/Installation - Cargo Area** from the list.
3. Remove the battery module switch cover (two bolts), then remove the locking cover from the switch.



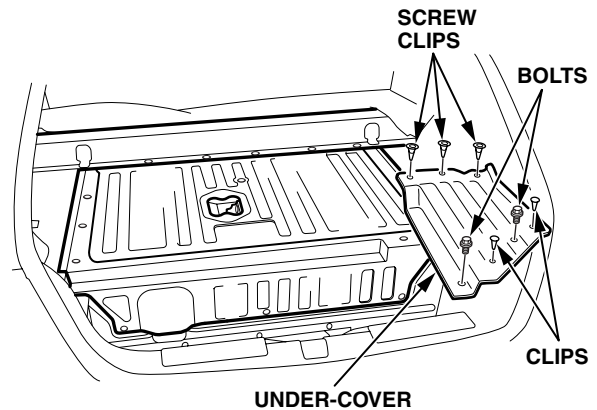
4. Flip the battery module switch to OFF, then reinstall the locking cover.



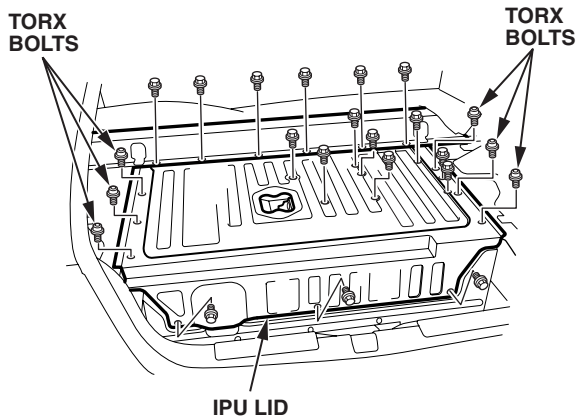
5. Wait at least 5 minutes for the capacitors in the system to discharge.
6. Remove the rear clips from the middle bulkhead carpet.



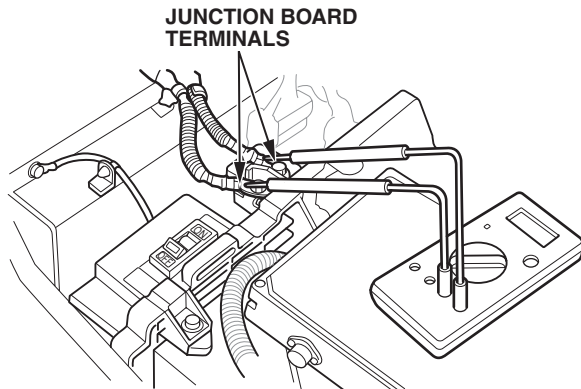
7. Remove the under-cover (two bolts, two clips, and three screw clips).



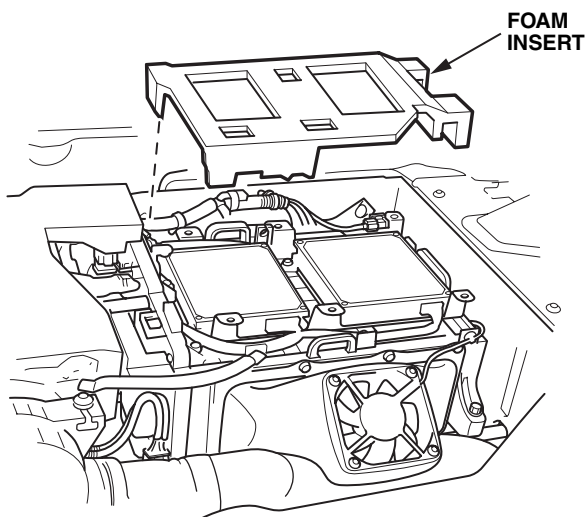
8. Remove the IPU (intelligent power unit) lid (six Torx bolts and 17 hex bolts).



9. Measure voltage at the junction board terminals.
 - If the reading is 30 V or less, the capacitors are discharged enough for you to continue; go to step 10.
 - If the reading is more than 30 V, there is a problem with the IMA system. Troubleshoot the system using the IMA section of the service manual, then continue with this procedure.

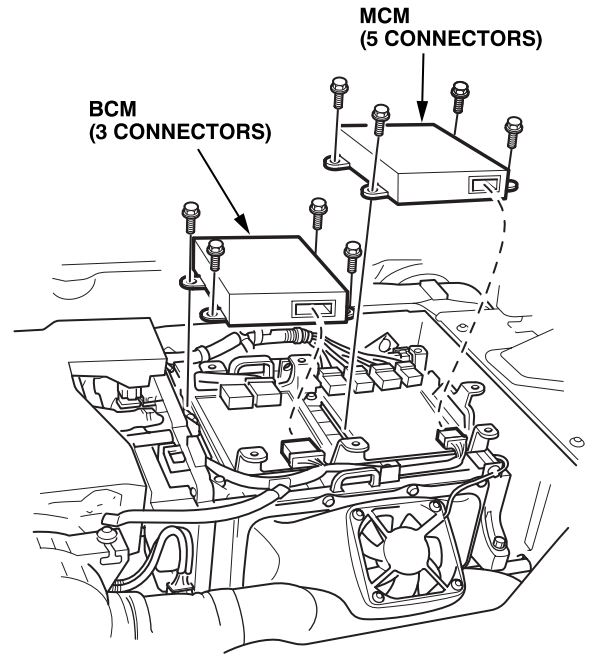


10. Lift out the battery module foam insert.



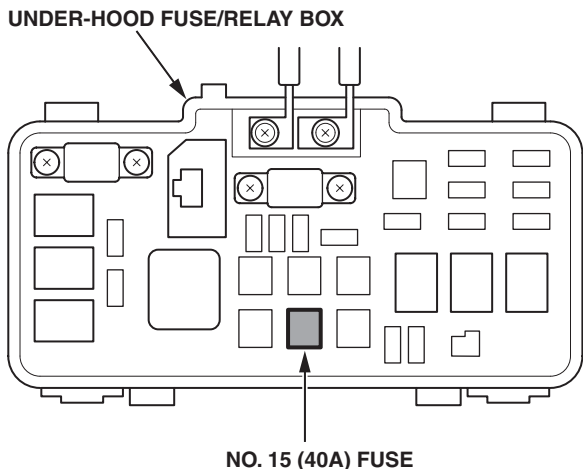
11. Replace the BCM (2002–04 Insights) or the BCM and the MCM (2000–01 Insights):

- Remove the mounting bolts.
- Disconnect the connectors: The BCM has three; the MCM has five.
- Remove the module(s).
- Install the new module(s) in the reverse order of removal, and torque the mounting bolts to **9.8 N·m (7.2 lb-ft)**.



12. Reinstall the foam insert.
13. Reinstall the IPU lid. Torque the bolts to **9.8 N·m (7.2 lb-ft)**.
14. Reinstall the trunk right side shelf support. Torque the bolts to **9.8 N·m (7.2 lb-ft)**.
15. Remove the battery module switch locking cover, flip the switch to ON, then reinstall the locking cover.
16. Reinstall the battery module switch cover.
17. Reinstall the rear clips on the middle bulkhead carpet.
18. Reinstall the cargo floor mat.
19. Check for and clear any DTCs with the HDS.

20. Remove the No. 15 (40A) fuse (EPS control unit) from the under-hood fuse/relay box.



- 21. With the transmission in neutral (M/T) or Park (CVT), and the clutch released (M/T), start the engine. Hold the engine speed at 3,500 rpm until the IMA battery level indicator shows at least 50 percent charge.
- 22. Turn off the engine, and reinstall the No. 15 fuse.
- 23. Center-punch a completion mark above the 14th character of the engine compartment VIN.

Center-punch here.

JHMZE1XXXXXXXXXXXX

Spring 2006

Product Update and Warranty Extension: Integrated Motor Assist Battery System

Dear Insight Owner:

This letter is to notify you of a potential problem with your vehicle and what you should do to resolve it. It also announces a warranty extension on your vehicle's integrated motor assist (IMA) battery.

What is the problem?

The integrated motor assist (IMA) system in your vehicle assists the gasoline engine for better acceleration. Over time, excessive overcharging cycles of the battery that powers the IMA system can cause early deterioration. These cycles are typically created by operation of the vehicle in unique topographical and local conditions where the IMA battery typically remains fully charged.

What should you do?

Contact any authorized Honda dealer for an appointment to have your vehicle updated. Depending on what is needed, the dealer will replace one or two control modules in your vehicle's IMA system. This work will be done *free of charge*. Please plan to leave your vehicle at the dealer for half a day to allow them flexibility in scheduling.

In addition to the product update, we are announcing a warranty extension for your vehicle's IMA battery. The IMA battery is now covered for 10 years or 150,000 miles, whichever occurs first.

What to do if you feel this notice is in error.

Our records show that you are the current owner or lessee of a 2000–04 Insight involved in this product update and warranty extension. If this is not the case, or the name/address information is not correct, please fill out and return the enclosed, postage-paid *Information Change Card*. We will then update our records.

If you paid to have a defective IMA component replaced sometime in the past, you may be eligible for reimbursement. Refer to the attached *Instructions for Reimbursement* for eligibility requirements and the reimbursement procedure.

If you have questions.

If you have questions about this notice, or need help contacting a Honda dealer, please call Honda Automobile Customer Service at (800) 999-1009.

We apologize for any inconvenience this product update may cause you.

Sincerely,

American Honda Motor Co., Inc.
Honda Automobile Division