



Applies To: 2001 and Later Honda-Produced Vehicles With Programmable ECM/PCMs

July 17, 2001

Using the Honda Interface Module to Update the ECM/PCM

The procedures in this service bulletin will be used and referenced in other service bulletins.

The ECM/PCM in 2001 and later Civics can be reprogrammed. The tool used to update the Civic ECM/PCM is the Honda Interface Module (HIM).

Programmable ECMs/PCMs will be used in future Honda models. When a new model comes out, refer to its service manual to determine if this is the case.

To program an ECM/PCM, you need the HIM, the vehicle you're working on, and a PC with Windows 95 or later, your HONDANET 2000 workstation, or your IN (Interactive Network) workstation.

This service bulletin describes these items:

- Who to contact for questions or problems when using the HIM or DCS CD
- Required tools and equipment
- HIM user tips
- Programming the HIM and updating the ECM/PCM
- How to diagnose the HIM

WARRANTY CLAIM INFORMATION

Refer to the specific service bulletin for the symptom you are repairing.

Skill Level: Repair Technician

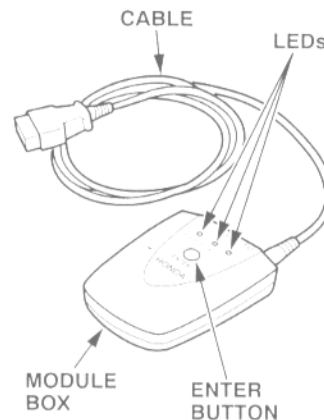
QUESTIONS OR PROBLEMS WITH THE HONDA INTERFACE MODULE OR HONDANET 2000 CD

For questions or problems on HIM hardware and its use, call American Honda Special Tools at 800-346-6327.

For questions about loading the HONDANET 2000 CD, call the HONDANET 2000 Support Center at 800-245-4343.

REQUIRED TOOLS AND EQUIPMENT

- Honda Interface Module: P/N EQS05A35570
Includes the module box and an attached cable.



- HONDANET 2000 CD (August 2001 or later) loaded into your HONDANET 2000 master terminal
- HONDANET 2000 Workstation with 32-bit processor (**not** the master terminal)
or
IN (Interactive Network) Workstation
- PC Interface Cable: P/N VET-02002832
This is the same cable you use to connect the PGM Tester to the HONDANET 2000 or IN workstation when updating the Tester's program card or downloading DTCs to American Honda. It's a blue cable with an attached adapter.
- 110 VAC/12 VDC Power Supply: P/N VET-02002426
This is the same power supply used by the PGM Tester.

NOTE: The HIM, the blue PC interface cable, and the 110 VAC/12 VDC power supply can be ordered through the Honda Tool and Equipment Program at 888-424-6857.

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.

HIM USER TIPS

- Before you update an ECM/PCM, make sure the vehicle's battery is fully charged.
- If you're updating the ECM/PCM on a new vehicle, make sure all its fuses were installed at PDI.
- To prevent ECM/PCM damage, do not operate anything electrical (audio system, brakes, A/C, power windows, moonroof, etc.) during the update.
- If you need to diagnose the HIM because the red light (#3) came on or was flashing during an update, leave the ignition switch in the ON (II) position while you disconnect the HIM from the DLC (data link connector). This will prevent ECM/PCM damage.
- When you replace an ECM/PCM with a new one from parts stock, make sure it has the latest update. As with any ECM/PCM replacement, you need to rewrite the new ECM/PCM with the PGM Tester so the immobilizer system will work, and also perform the idle learn procedure.
- After you've read this service bulletin and done a few updates, you can save some time by using the abbreviated updating instructions on the back of the HIM.

PROGRAMMING THE HIM AND UPDATING AN ECM/PCM

To update an ECM/PCM, you need to program the HIM, and then do the actual update. Here's an overview, followed by the step-by-step procedures.

Take the HIM to the vehicle, and connect it to the DLC; information about the ECM's/PCM's software is loaded into the HIM. Then, take the HIM to your computer workstation, connect it, and follow the instructions on the screen. The workstation determines if the software in the ECM/PCM is up-to-date. If the ECM/PCM needs to be updated, the update is programmed into the HIM. (If the ECM/PCM already has the update, it is indicated on the screen, and no further action is needed.)

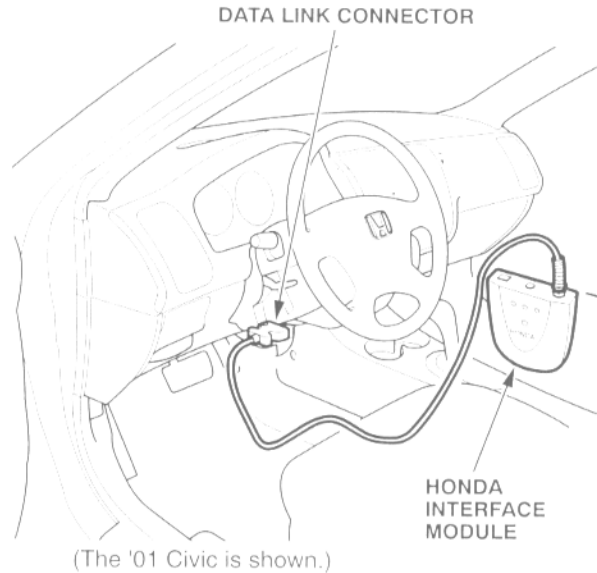
To complete the ECM/PCM update, take the HIM back to the vehicle, connect it to the DLC, and press the ENTER button. The HIM then replaces the current ECM/PCM software information with the update.

NOTE: To avoid permanent ECM/PCM damage, be sure to follow the HIM programming and ECM/PCM updating procedures exactly.

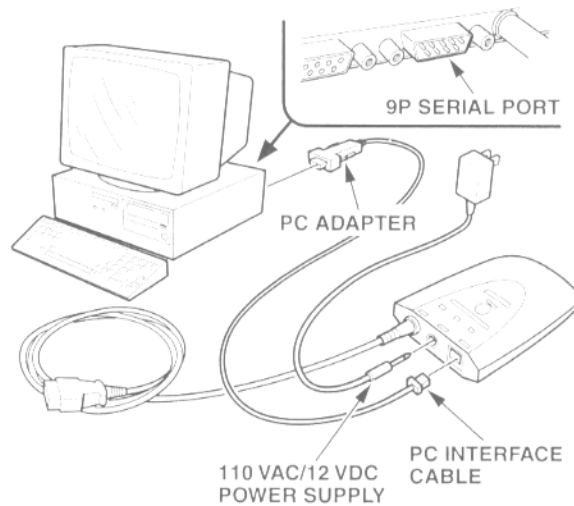
Programming the HIM

1. If not already done, load the August 2001 or later HONDANET 2000 CD onto your HONDANET 2000 master terminal. Loading instructions are included in the CD's mailing.
2. Take the HIM to the vehicle, and turn the ignition switch to ON (II).

3. Connect the HIM cable to the vehicle's DLC (data link connector). The HIM's green (#1) and yellow (#2) lights flash.



4. When the green (#1) light glows steadily and the yellow (#2) light is off, turn the ignition switch to LOCK (0). Disconnect the HIM from the DLC, then take it to the HONDANET 2000 or IN workstation.
5. Connect the small end of the blue PC interface cable to the PC port on the HIM. (Some interface cables are gray, and some have a yellow label near the small end to help you identify them.)



6. If not already done, connect the PC adapter end of the PC interface cable to the 9P serial port on the HONDANET 2000 or IN workstation.

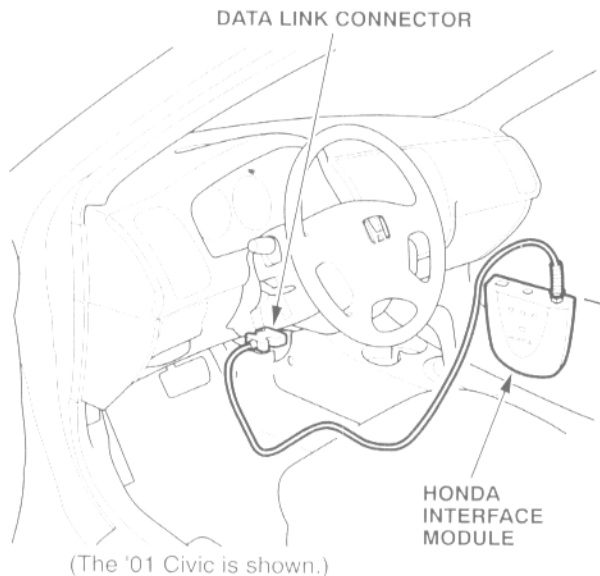
NOTE: If the workstation isn't the same one used for updating PGM Tester program cards, disconnect the PC interface cable from one workstation, and connect it to the 9P serial port on the other workstation. You can avoid this extra step by getting a PC interface cable for each workstation.

7. Connect the 110 VAC/12 VDC power supply to the HIM and to a wall outlet.
8. Log in to HONDANET 2000.
9. At the top of the HONDANET 2000 screen, click on *Service Bay*, then click on *HIM* in the drop-down menu. This brings up the Honda Interface Module Welcome screen.
10. From the Welcome screen, choose the function you need:
 - Click on *Auto Sel* to retrieve the vehicle's ECM/PCM update status from the HIM. **Auto Sel is used for almost every HIM procedure.**
 - Click on *Select* to manually retrieve the vehicle's update status and program the ECM/PCM update needed for the repair. **Select is used only when Tech Line or a service bulletin directs you to use it.**
11. Follow the screen prompts exactly. When you are finished, the screen displays *Programming the Honda Interface Module is Complete*. Once the HIM is programmed, go to Updating an ECM/PCM With a Programmed HIM.

Updating an ECM/PCM With a Programmed HIM

NOTE: If the red light (#3) on the HIM comes on or flashes at any time during the procedure, the update was not completed. Go to DIAGNOSING THE HIM.

1. At the vehicle, turn the ignition switch to ON (II), then connect the HIM cable to the DLC. The HIM's green (#1) and yellow (#2) lights flash.



2. When the green (#1) light glows steadily and the yellow (#2) light is off, push and release the ENTER button on the HIM. The green (#1) light glows steadily, and the yellow (#2) light flashes for about 5 minutes. (The flashing speed can vary from fast to slow.)

NOTICE: To avoid permanent ECM/PCM damage, do not turn the ignition switch off, use anything electrical, or disconnect the HIM cable while the yellow light is flashing.
3. When the yellow (#2) light glows steadily and the green (#1) light is off, turn the ignition switch to LOCK (0) and then to ON (II) again.
4. When the green (#1) and yellow (#2) lights glow steadily, the update is complete. Disconnect the HIM from the DLC, and turn the ignition switch off.
5. If the vehicle still has the problem you tried to correct with the update, refer to the appropriate service manual or ETM for troubleshooting information.

DIAGNOSING THE HIM

If the red light (#3) on the HIM came on or was flashing while updating the ECM/PCM, do this:

1. Leave the ignition switch in the ON (II) position while you disconnect the HIM from the vehicle's DLC.
2. If not already done, load the August 2001 or later HONDANET 2000 CD onto your HONDANET 2000 master terminal. Loading instructions are included in the CD's mailing.
3. Connect the HIM to the HONDANET 2000 or IN workstation. Connect the small end of the PC interface cable to the PC port on the module box.
4. If not already done, connect the PC adapter end of the blue PC interface cable to the 9P serial port on the DCS or IN workstation.
5. Connect the 110 VAC/12 VDC power supply to the HIM and to a wall outlet.
6. Log in to HONDANET 2000.
7. From the choices across the top of the HONDANET 2000 screen, click on *Service Bay*, and then click on *HIM* from the drop-down menu.
8. Click on *View Err* at the bottom of the screen to display the problem encountered while the HIM was connected to the vehicle.
9. Call American Honda Special Tools at 800-346-6327 for further instructions.