Parasitic battery draw from VSA modulator (Vehicle will not start)

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2017	CR-V	1.5T, 2WD	5J6RW1H..HL000026 thru 5J6RW1H..HL013054
			2HKRW1H..HH500020 thru 2HKRW1H..HH514124
			7FARW1H..HE000019 thru 7FARW1H..HE003458
2017	CR-V	1.5T, AWD	5J6RW2H..HL000234 thru 5J6RW2H..HL031144
			2HKRW2H..HH600014 thru 2HKRW2H..HH630033
2017	CR-V	2.4, 2WD	5J6RW5H..HL000021 thru 5J6RW5H..HL003088
			2HKRW5H..HH400007 thru 2HKRW5H…HH401027
			7FARW5H..HE000012 thru 7FARW5H..HE003861
2017	CR-V	2.4, AWD	5J6RW6H..HL000023 thru 5J6RW6H..HL003499
			2HKRW6H..HH200008 thru 2HKRW6H..HH206335

SYMPTOM

The vehicle does not start due to a low battery. The vehicle may have an intermittent 350mA current draw after the vehicle is shut off.

NOTE:
- A dead battery can be normal depending on the battery condition or age. This software update will have no effect on these conditions.
- A jump-start should only be used to get the vehicle to a service station or dealer. It cannot be used to fully charge the battery.
- There are many other possible causes for a vehicle needing multiple jump starts, such as a faulty alternator, a faulty or sulfated battery, or loose battery cables.

POSSIBLE CAUSES

The VSA software logic may not allow the VSA modulator-control unit to shut down correctly and go into sleep mode after the vehicle is shut off. This can happen if the electronic parking brake (EPB) is applied within 3 to 4 seconds of the vehicle being shut off or if the EPB switch is held for a 3 to 4 second duration when the vehicle is off.

CORRECTIVE ACTION

Update the VSA modulator-control unit, do the VSA sensor neutral position memorization (ALL SENSOR), set the tire pressures to the driver's door jamb label cold inflation values, and do the TPMS calibration procedure.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
4135A2	Update the VSA modulator-control unit, do the VSA sensor neutral position memorization, set the tire pressures and do the special TPMS calibration procedure.	0.4 hr	03214	03203	17-032A	57114-TLA-A04

Skill Level: Repair Technician

SOFTWARE INFORMATION

NOTE: Unnecessary or incorrect repairs resulting from a failure to update the i-HDS or MVCI are not covered under warranty.
i-HDS Software Version: **1.003.003 or later**

J2534 Software Information:
    PC Application Version **1.1.0.2 or later**
    Database update **17-APR-2017 or later**

Before beginning the repair, make sure that both the i-HDS and J2534 software are updated as listed above.

Do only the update listed in this service bulletin.

You cannot apply the updates with the MVCI as a standalone tool. To update the vehicle, you must use the MVCI or the DST-i interface in conjunction with the J2534 Rewrite PC application on the i-HDS.

For more information about updating the i-HDS, the MVCI, and vehicle systems, refer to Service Bulletin 01-023, *Updating Control Units/Modules.*
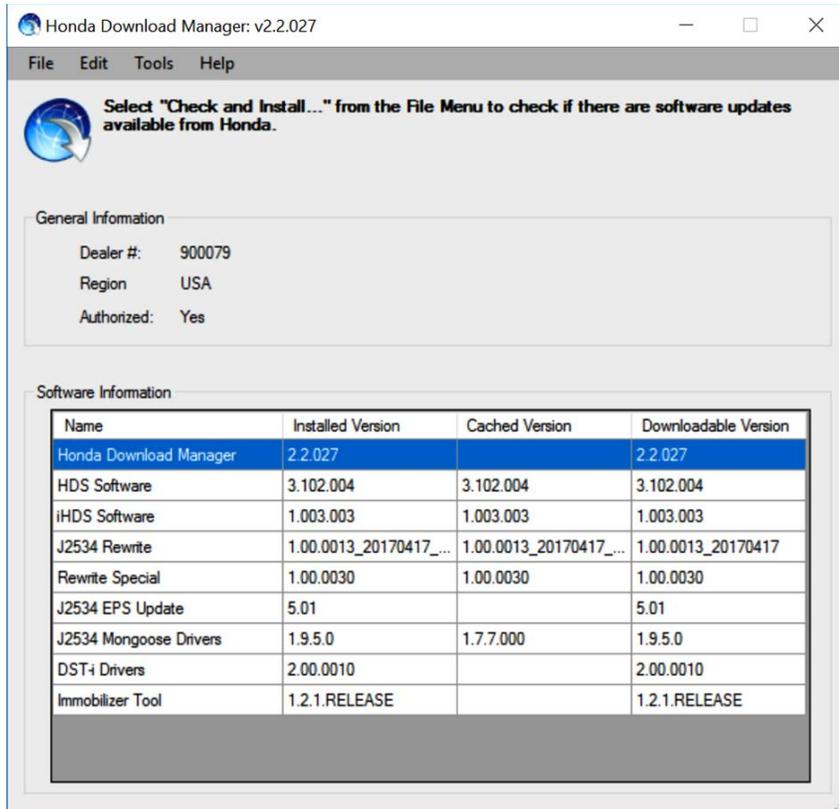
Year/Model	Software System	Program ID (or later)	Program P/N (or later)
2017 CR-V EX, EX-L, Touring	VSA	LAA050	57114-TLA-A05
2017 CR-V LX	VSA	LCA040	57114-TLC-A04

To check the database update version on the i-HDS laptop, right click on the HDS Download Manager icon on the taskbar.

HDS DOWNLOAD MANAGER

Select **Open HDS Download Manager,** and use the **File** pull-down menu to select **Check and Install**.

NOTE: If you are not connected to the Internet, you will see an error message indicating the i-HDS cannot check for updates; connect to the Internet to make sure you have the latest i-HDS software.

Honda Download Manager: v2.2.027

File   Edit   Tools   Help

Select "Check and Install..." from the File Menu to check if there are software updates available from Honda.

General Information

Dealer #:	900079
Region	USA
Authorized:	Yes

Software Information

| Name	Installed Version	Cached Version	Downloadable Version
Honda Download Manager	2.2.027		2.2.027
HDS Software	3.102.004	3.102.004	3.102.004
iHDS Software	1.003.003	1.003.003	1.003.003
J2534 Rewrite	1.00.0013_20170417_...	1.00.0013_20170417_...	1.00.0013_20170417
Rewrite Special	1.00.0030	1.00.0030	1.00.0030
J2534 EPS Update	5.01		5.01
J2534 Mongoose Drivers	1.9.5.0	1.7.7.000	1.9.5.0
DST-i Drivers	2.00.0010		2.00.0010
Immobilizer Tool	1.2.1.RELEASE		1.2.1.RELEASE

REPAIR PROCEDURE

NOTE:
- You cannot update the vehicle using the MVCI as a standalone tool.
- **Do not** use the MongoosePro VCI tool.
- Connect a fully charged jumper battery to the vehicle, and leave it connected during the entire procedure to maintain steady voltage.
- Never turn the ignition to OFF or ACCESSORY during the update. If there is a problem with the update, leave the ignition turned to ON.
- To prevent VSA modulator-control unit damage, do not operate anything electrical (headlights, audio system, brakes, A/C, power windows, door locks, etc.) during the update.
- If you see the following **Error Display**, check that you are using the correct tool (MVCI or DST-i) with the i-HDS.
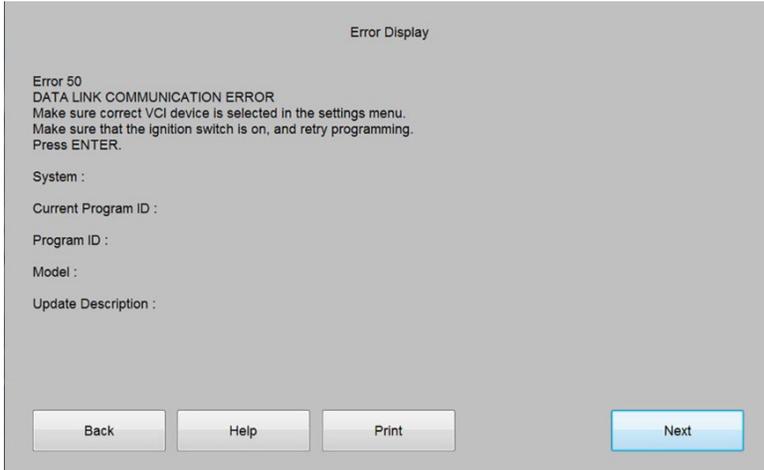
To change this, click on either of the **SETTING** selection buttons at the bottom of the J2534 initial screens as shown.
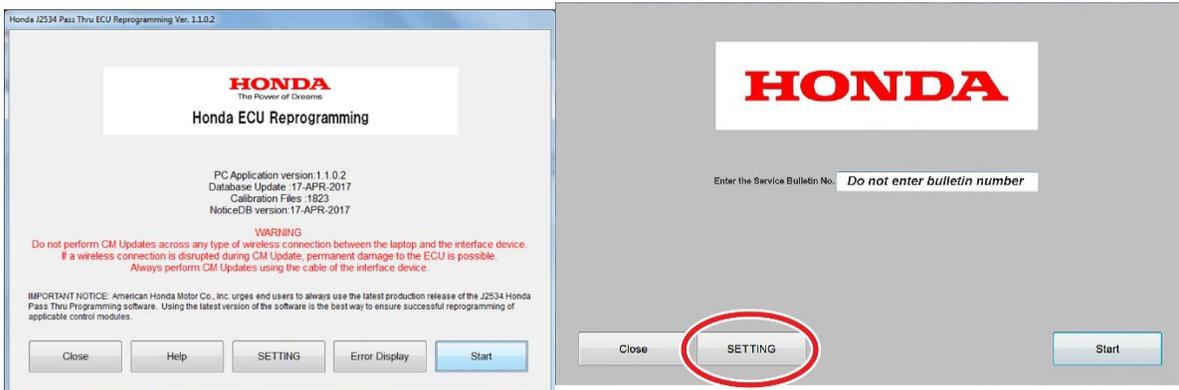

1. Make sure the battery is fully charged. Check the condition of the battery using the GR8 battery diagnostic station (software version **192-210007K** or later). If necessary, replace the battery before updating the VSA modulator-unit software. Refer to Service Bulletin 88-0233, *Battery Testing and Replacement*.

2. Make sure the parking brake is applied and the headlights are turned off.

3. Update the ABS/VSA software by selecting the **i-HDS Diagnostic System** icon. Refer to Service Bulletin 01-023, *Updating Control Units/Modules.*
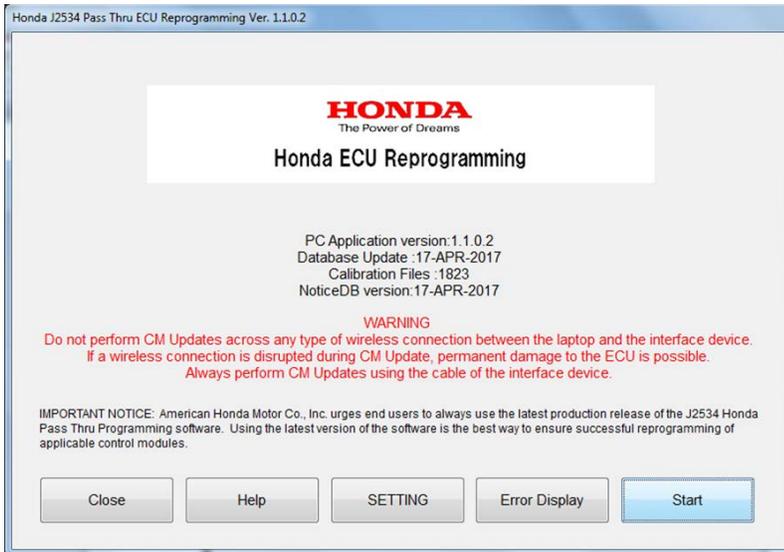
    NOTE: Do not use the Rewrite icon on your desktop.

4. Select J2534 Rewrite.
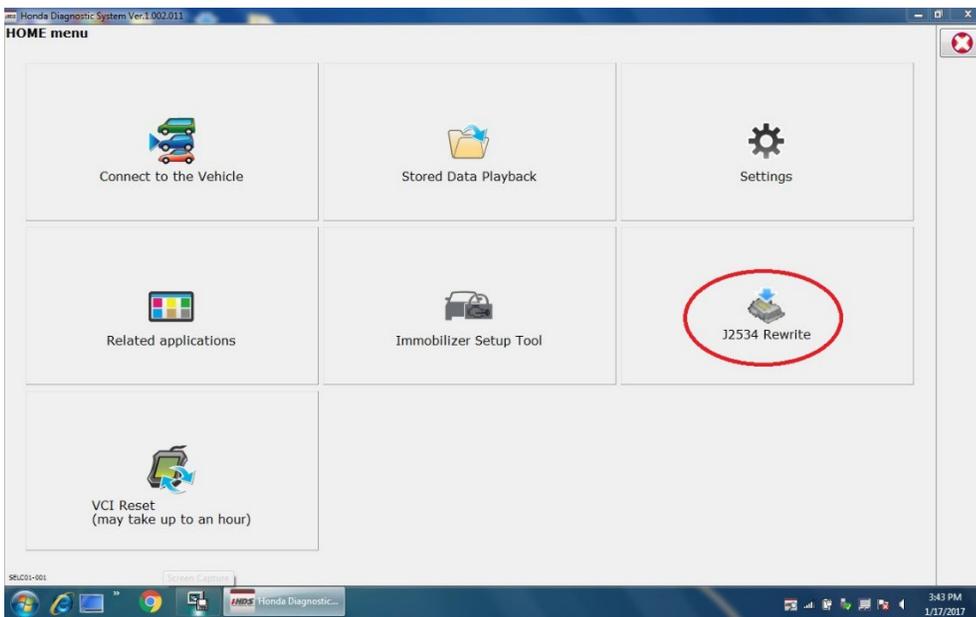
5. Confirm the software is the same **or later** as listed in SOFTWARE INFORMATION.


6. Select **Start**, then follow the screen prompts.

    NOTE:
    - Do not enter a bulletin number.
    - If you receive a message that the vehicle has been already updated or that no update is available, check the **VSA Data List**. The header should indicate one of the following numbers (or later).

      | 57114-TLA-A05 |
      | 57114-TLC-A04 |

    - If the program part numbers do not match those listed above, the i-HDS software needs to be reinstalled. Contact the Special Tools Hotline at 800-346-6327 for assistance.
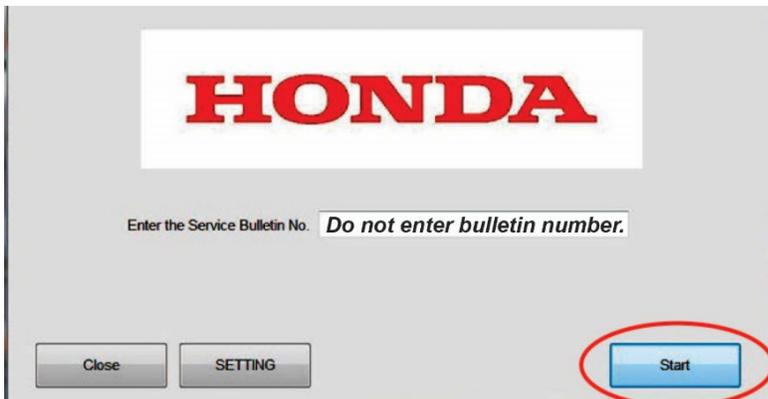
7. While the MVCI is updating the ABS/VSA software, set the tire pressures to the cold inflation values listed on the driver's door-jamb label.

8. Do the following procedures before returning the vehicle to the customer:
    - VSA sensor neutral position memorization procedure.
    - Special TPMS calibration used only after software update.
    - Do an all DTC check and clear the DTCS from all systems.

VSA SENSOR NEUTRAL POSITION MEMORIZATION PROCEDURE

1. Set the steering wheel in the straight-ahead position.

2. From **Honda Systems**, select **ABS/TCS/VSA**, **Adjustment**, and **All Sensors** then, follow the screen prompts.
   NOTE: Do not press the brake pedal during this procedure.

SPECIAL TPMS CALIBRATION USED ONLY AFTER SOFTWARE UPDATE

NOTE:
- If the tire pressures were not already set, set them to the cold inflation values listed on the driver's doorjamb label.
- **It is not necessary to drive the vehicle** after doing the following calibration procedure. Calibration will complete as the customer drives the vehicle.

Do the TPMS calibration **three** times in a row to clear the old data. After the third calibration, the Low Tire Pressure/TPMS indicator should come on within 10 seconds and stay on for 1 second before going out.

Before you start:

1. Make sure the vehicle is stopped.

2. Make sure the transmission is in Park or Neutral.

3. Make sure the ignition is turned to ON.

TPMS button on the left lower dash

To start TPMS calibration, press and hold the Low Tire Pressure/TPMS button until the indicator blinks, release it   and wait 5 seconds, then press and hold the TPMS button a **second** time until the indicator blinks, release it and wait 5 seconds, then press and hold the TPMS button a **third** time until the indicator blinks, and release it.

After the third calibration is finished, the Low Tire Pressure/TPMS indicator should come on within 10 seconds, and stay on for 1 second, and then go out to confirm the system is calibrated.

TPMS Calibration with display audio type (7-inch screen)

From the audio screen, select the **Home** button. Then select **Settings**, then **Vehicle**, and then **TPMS Calibration**. Select **Calibrate** to initiate calibration.

TPMS Calibration with color audio type (5-inch screen)

From the steering wheel, press the information button. Then press the audio remote button to select **Vehicle Settings**. Press the audio remote button to select **TPMS Calibration** and press the audio remote button to select **Calibrate** to initiate calibration.

END