

December 19, 2014

BTB 01276 (1412)

## TIGHTEN FUEL CAP Message On or DTC P0455 and/or P0456 is Set

### AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2013–14	RDX	ALL	ALL
2015	RDX	ALL 2WD	5J8TB3...FL000001 thru 5J8TB3...FL010016
2015	RDX	ALL AWD	5J8TB4...FL000001 thru 5J8TB4...FL017148

### SYMPTOM

The **TIGHTEN FUEL CAP** message is on or DTC P0455 (EVAP system large leak) and/or DTC P0456 (EVAP system very small leak detected) set.

### POSSIBLE CAUSES

During short drive cycles, the PCM may misinterpret inputs from the evaporative system.

### CORRECTIVE ACTION

Check the EVAP system for leaks. If no leak is found, update the PCM.

### TOOL INFORMATION

Tool Name	Tool Number	Quantity
Vacuum Pump/Gauge, 0–30 inHg Snap-on	YA4000A	1
Vacuum/Pressure Gauge, 0–4 inHg	07JAZ-001000B	1

NOTE: Only one of the following tools is needed for this bulletin to be completed.

### SOFTWARE INFORMATION

NOTE: Unnecessary or incorrect repairs resulting from a failure to update the HDS or MVCI are not covered under warranty.

MVCI Control Module (CM) Update:

Application (FW) Version 3.01.40 **or later**

Database Update 12-Nov-2014 **or later**

HDS Software Version:

3.015.023 **or later**

**CLIENT 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 Acura automobile dealer.

**Before beginning the repair, make sure that both the HDS and the MVCI are updated as listed above.**

**Do only the update listed in this service bulletin.**

Check that the MVCI indicates the applicable program ID listed below (or a later program ID) as the **Recommended Updated** when the update begins.

If the MVCI displays **This vehicle does not need an update at this time** during the update, the software for this bulletin is already installed.

For more information about updating the HDS, the MVCI, and vehicle systems, refer to Service Bulletin 01-026, *Updating Control Units/Modules*.

Year/Model/Trim	Program ID (or later)	Program P/N (or later)	System To Update
2013–15 RDX (2WD)	8AA660	37805-R8A-A66	PGM-FI
2013–15 RDX (AWD)	8AA560	37805-R8A-A56	PGM-FI

## WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Template ID	Failed Part Number
3105H5	Check EVAP system for leaks and vacuum test.	0.5 hr	14-053N	37820-R8A-A54
A	Update PGM-FI software.	0.1 hr		

Defect Code: 03214

Symptom Code: 03272

Skill Level: Repair Technician

## DIAGNOSIS

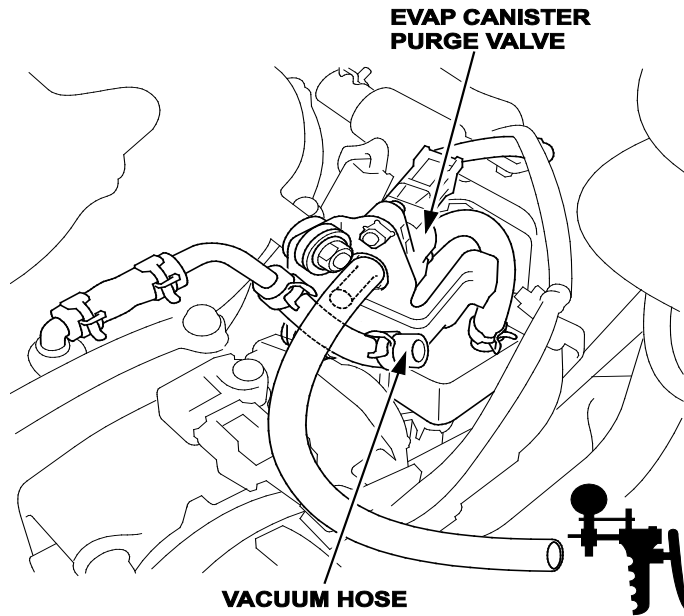
1. Confirm the client's drive time before the fault was displayed.
  - If the drive time was less than 20 minutes, go to step 2.
  - If the drive time was more than 20 minutes, this bulletin does not apply.
2. Confirm that there is no leak in the EVAP system.
  - Turn the ignition to ON, and clear the DTC with the HDS.
  - Go to **INSPECTION MENU**, then select **EVAP TEST**, and **FUNCTION TEST**.

*Does the vehicle pass the EVAP system function test?*

**YES** – Check for poor connections or loose terminals at the FTP sensor, the EVAP canister purge valve, EVAP canister vent shut valve, and the PCM. Go to step 3.

**NO** – This bulletin does not apply. Continue with normal troubleshooting.

3. Disconnect the vacuum hose from the engine side of the EVAP canister purge valve in the engine compartment, then connect a vacuum pump/gauge to the purge control solenoid valve as shown.



4. With the ignition turned to ON mode.
5. Select **EVAP TEST** again, and monitor the **EVAP PCS ON** and **EVAP CVS ON** in the **MULTI SOLENOIDS**.
6. Apply about -0.59 inHg (-15.1 mmHg), of vacuum until the FTP reads 1.90 V.  
NOTE: Be careful not to exceed the vacuum. If you do, the FTP sensor may be damaged.
7. Disconnect the PCS coupler and then check the FTP sensor reading for 1 minute.

*Does the voltage increase more than 0.2V?*

**Yes** – This bulletin does not apply. Continue with normal troubleshooting.

**No** – Turn the ignition to OFF, reassemble all parts in the reverse order of disassembly, and go to REPAIR PROCEDURE.

## REPAIR PROCEDURE

Update the PGM-FI software. Refer to Service Bulletin 01-026, *Updating Control Units/Modules*.

END