April 21, 2016   03122 Version 2

Transmission Function Improvements: Sensation of Surge While Braking, Slow Downshift Response at Low Engine Speeds, and Other Listed Symptoms

Supersedes 16-008, dated January 28, 2016, to revise the information highlighted in <mark>yellow.</mark>

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2016	Pilot	2WD with 9-Speed A/T	5FNYF5...GB000001 thru 5FNYF5...GB024149
2016	Pilot	AWD with 9-Speed A/T	5FNYF6...GB000001 thru 5FNYF6...GB050323

REVISION SUMMARY

<mark>Under BACKGROUND, a symptom was added.</mark>

BACKGROUND

American Honda has made several shift quality improvements in the 2016 Pilot.

SYMPTOM	UPDATE
There is a sensation of acceleration while coasting down a hill.	Engine mapping has been changed to better manage 8-7 and 5-4 downshifts with the throttle closed.
There is a sensation of a surge while braking.	
The transmission feels like it stays in the gear too long.	Transmission mapping on the 5-4-3 downshift when accelerating at low engine speeds was changed to a 5-3 downshift to provide a quicker acceleration response.
During slight acceleration, there is a surge or hesitation from a stop.	Low-speed acceleration feel in 1-3 gears has been improved.
The transmission feels rough at low speeds.	
There is a hesitation from a stop (with idle stop canceled).	
There is poor acceleration or bogging noise at slow engine speeds.	Torque converter lock up strategy has been improved for low-speed drivability (parking lot speeds).
<mark>P2638 (Does not turn on the MIL)</mark>	<mark>Improved torque accuracy monitoring.</mark>

CORRECTIVE ACTION

Update both the PCM and the TCM software. Clear all DTCs created during both updates and do the idle learn procedure.

NOTE:

- Failure to update both the PCM and the TCM software at the same time will result in poor shift quality and a comeback.
- This software update will change the way the transmission shifts.
- After the update it may take up to 30 miles for the transmission to adapt to the customer's driving habits.

WARRANTY CLAIM INFORMATION

The normal warranty applies.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
1255D7	Update the PCM and the TCM software. Do the idle learn procedure.	0.5 hr	03214	03217	16-008A	37820-RLV-A63

Skill Level: Repair Technician

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 Version: **3.01.50 or later**
    Database update: **11-Jan-2016 or later**
HDS Software Version:
    3.017.012 or later

Before beginning the update, 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 **Available Update** 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 service bulletin is already installed.

For more information about updating the HDS, the MVCI, and vehicle systems, refer to Service Bulletin 01-023, *Updating Control Units/Modules.*

PCM

Trim	Program ID (or later)	Program P/N (or later)
2WD with 9-Speed A/T	LVA640	37805-RLV-A640
AWD with 9-Speed A/T	LVA840	37805-RLV-A840

TCM

Trim	Program ID (or later)	Program P/N (or later)
2WD with 9-Speed A/T	EYA050	28101-5EY-A050
AWD with 9-Speed A/T	EZA060	28101-5EZ-A060

REPAIR PROCEDURE

1. Update the TCM and the PCM software. Refer to Service Bulletin 01-023, *Updating Control Units/Modules.*

2. Do the idle learn procedure. Refer to the service information.

END