



Applies To: **2009 TSX – ALL**
2010 TSX L4 – From VIN JH4CU2...AC000001 thru JH4CU2...AC009053

September 11, 2009

Engine Pings During Moderate to Heavy Acceleration

SYMPTOM

The engine pings during moderate to heavy acceleration.

PROBABLE CAUSE

The PCM software, combined with knock sensor sensitivity, may not adjust the ignition timing as expected.

NOTE: This condition does not cause internal engine damage. Some engine ping is a desired characteristic for optimal performance and fuel economy.

CORRECTIVE ACTION

Replace the knock sensor, then update the PGM-FI software with the HDS. If you're working on a vehicle with A/T, also update the A/T software.

NOTE: On vehicles with A/T, you **must** update the A/T software to complete the repair.

PARTS INFORMATION

Knock Sensor: P/N 30530-RL5-A01

Intake Manifold Gasket (four required):
P/N 17115-R40-A01

REQUIRED MATERIALS

Acura Long Life Antifreeze/Coolant Type 2
(One gallon repairs about 20 vehicles):
P/N 0L999-9001

SOFTWARE INFORMATION

HDS Software Version:
2.019.009 (August 2009) (gray) **or later.**

Control Module (CM) Update:
Application Version V6.18.06 **or later.**
Database Update 05-AUG-2009 **or later.**

NOTE: To avoid an incorrect repair that would not be covered under warranty, use the software version listed above or a later version.

The updated PGM-FI software program IDs and P/Ns are shown below. If these **or a later** program IDs are the current ones displayed during the update, the software for this service bulletin is already installed.

Year/Model/ Software	Program ID	Program P/N
2009–10 TSX M/T PGM-FI Software	L5A030	37805-RL5-A03
2009–10 TSX A/T PGM-FI Software	L5A530	37805-RL5-A53
2009–10 TSX A/T A/T Software	L5A520	37806-RL5-A52

WARRANTY CLAIM INFORMATION

In warranty: The normal warranty applies.

OP#	Description	FRT
121188	Replace the knock sensor.	0.6
1255A2	Update the PGM-FI software.	0.3
A	<i>A/T models only:</i> Add for updating the A/T software.	0.3

Defect Code: 03214
Symptom Code: 03203
Failed Part: P/N 37820-RL5-A51
Skill Level: Repair Technician

Out of warranty: Any repair performed after warranty expiration may be eligible for goodwill consideration by the District Parts and Service Manager or your Zone Office. You must request consideration, and get a decision, before starting work.



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.

REPAIR PROCEDURE

1. Replace the knock sensor:
 - Refer to page 11-220 of the *2009–2010 TSX Service Manual*, or
 - Online, enter keyword **KNOCK**, and select **Knock Sensor Replacement** from the list.
- NOTE:
- Knock sensor replacement requires intake manifold removal.
 - In step 6 of Removal, the bracket does not need to be removed; just remove the bracket lower bolt.
 - In step 10 of Removal, the PCV hose does not need to be disconnected.
 - In step 13 of Installation, radiator refilling and cooling system bleeding is not needed; just top-off the cooling system reservoir with about 6 ounces of coolant.
2. Update the PGM-FI software with the HDS. Refer to Service Bulletin 01-026, *Updating Control Units/Modules*.
 3. *A/T models only*: Update the A/T software with the HDS. Refer to Service Bulletin 01-026.