

Service Bulletin

16-062

September 28, 2018 Version 4

2012–15 MDX: Judder from the Torque Converter Lock-Up Clutch (Snapshot Upload Required)

Supersedes 16-062, dated March 09, 2018, to revise the information highlighted in yellow

AFFECTED VEHICLES

Year	Model	Trim	VIN Range
2012	MDX	ALL	2HNYD2HCH513517 thru 2HNYD2HCH550713
2013	MDX	ALL	ALL
2014-15	MDX	ALL	ALL

REVISION SUMMARY

Added Continental PCM information to the Program IDs.

BACKGROUND

A judder from the torque converter lock-up clutch may be felt while driving between 20 and 60 mph. The problem is typically diagnosed as a bad torque converter. American Honda investigated the judder and found that the torque converter was not causing the judder and the transmission is not damaged by this judder.

- 16-062 2012-15 MDX: Judder from the Torque Converter Lock-Up Clutch. Do this bulletin first to apply the software and flush the transmission as indicated in the REPAIR PROCEDURE.
- 16-063 2012-15 MDX: Judder from the Torque Converter Lock-Up Clutch After Software Update. Some vehicles, based on how they are driven, may still experience ATF deterioration after updating the PGM-FI or A/T system. In these cases, do the inspection and, if necessary, flush the transmission as indicated in the REPAIR PROCEDURE.

CORRECTIVE ACTION

2012-13 MDX

There are 2 types of PCM's in the 2012 MDX (Keihin and Continental).

2013 vehicles were only equipped with Keihin PCMs.

Check the program ID in the Transmission Data List.

If the Program ID starts with 37805 it is a Continental PCM.

If the program ID starts with 37806 it is a Keihin PCM.

Check if the software has been updated. If the software has not been updated, take an automatic transmission snapshot and review the data, and confirm the judder is coming from the torque converter. **Send the snapshot to Tech Line**. If the snapshot does not indicate the judder is coming from the torque converter, this service bulletin does not apply. If the

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.

snapshot indicates the judder is coming from the torque converter, update the A/T system, then flush the transmission as indicated in the REPAIR PROCEDURE.

2014-15 MDX

Check if the software has been updated. If the software has not been updated, take an automatic transmission snapshot and review the data and confirm that the judder is coming from the torque converter. **Send the snapshot to Tech Line**. If the snapshot does not indicate the judder is coming from the torque converter, this service bulletin does not apply. If the snapshot indicates the judder is coming from the torque converter, update the PGM-FI system, then flush the transmission as indicated in the REPAIR PROCEDURE.

PARTS INFORMATION

Part Name	Part Number	Quantity
Drain Plug Washer (18 mm)	90471-PX4-000	1
ATF Fill Sealing Washer (24 mm)	90441-PK4-000	1

PARTS INFORMATION

Part Name	Part Number	Quantity
Acura ATF DW-1	08200-9008A	10

WARRANTY CLAIM INFORMATION

The warranty is 8 years or 80,000 miles, whichever comes first.

Operation Number	Description	Flat Rate Time	Defect Code	Symptom Code	Template ID	Failed Part Number
1255E4	Update the PGM-FI or A/T software.	0.2 hr	03214	03217	16-062N	37805-5J6-3050
А	Flush the ATF.	1.4 hrs				

Skill Level: Repair Technician

SOFTWARE INFORMATION

NOTE

Unnecessary or incorrect repairs resulting from a failure to update the i-HDS are not covered under warranty.

i-HDS Software Version: 3.103.012 or later

J2534 Software Information:

- PC Application Version 1.1.0.2 or later
- Database update 14-SEP-2018 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 software 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 01-026,

Updating Control Units/Modules.

Year/Model	Software System	Program ID (or later)	Program P/N (or later)	
2012-13 MDX Base and Technology	A/T	YE3080	37806-RYE-3080	
12 MDX Base and Technology*	PGM-FI	YE4070	37805-RYE-4070	
2012-13 MDX Adv	A/T	YE3090	37806-RYE-3090	
12 MDX Adv*	PGM-FI	YE4080	37805-RYE-4080	
2014-15 MDX Base and Technology	PGM-FI	J63050	37805-5J6-3050	
2014-15 MDX Adv	PGM-FI	J63060	37805-5J6-3060	
2014-15 MDX Base and Technology AWD	PGM-FI	J63070	37805-5J6-3070	
2014-15 MDX Adv AWD	PGM-FI	J63080	37805-5J6-3080	

*CONTINENTAL PCM

INSPECTION PROCEDURE

2012 MDX

Connect the i-HDS and go to the A/T Data List. Check to see which PCM is in the vehicle.

- If the software program P/N starts with 37805, it is a Continental PCM.
- If the software program P/N starts with 37806, it is a Keihin PCM.
- Check if the PCM has been updated by comparing the program P/N against the table below.



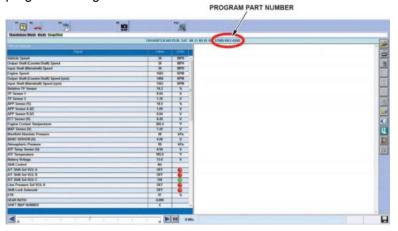
- If the program P/N is not listed below, the vehicle has not been updated, continue with verification.

 If the program P/N is listed below (or later), the vehicle has been updated, Go to service bulletin 16-063 2012-15 MDX: Judder from the Torque Converter Lock-Up Clutch After Software Update (Snapshot Upload Required)

Program P/N (or later) Continental	Program P/N (or later) Keihin	
37805-RYE-4070	37806-RYE-3080	
37805-RYE-4080	37806-RYE-3090	

2013-15 MDX

Connect the i-HDS and go to the A/T Data List. Check to see if the software has been updated by comparing the program P/N against the table below.



- If the program P/N is not listed below, the vehicle has not been updated, continue to verification.
- If the program P/N is listed below (or later), the vehicle has been updated. Go to service bulletin 16-063, 2012-15 MDX: Judder from the Torque Converter Lock-Up Clutch After Software Update (Snapshot Upload Required).

Program P/N (or later)
37805-5J6-3060
37805-5J6-3070
37805-5J6-3080

VERIFICATION PROCEDURE

Take an automatic transmission snapshot and forward it to Tech Line using the RO number. For more information about capturing and interpreting the data, refer to the job aid *Torque Converter Clutch Shudder and Vibration* and the Tech2Tech® video *Interpreting Torque Converter Judder Snapshot Data*.

- If the snapshot shows signs of torque converter shudder, go to REPAIR PROCEDURE.
- if the snapshot does not indicate a judder, this bulletin does not apply, continue with normal troubleshooting.

NOTE

You do not need to contact Tech Line after sending the snapshot. However, if you do not send a snapshot, your claim may be subject to debit.

REPAIR PROCEDURE

1. Update the software using the i-HDS J2534 rewrite software with the MVCI or DST-i. Refer to Service Bulletin 01-026, *Updating Control Units/Modules*.

FLUSH PROCEDURE

NOTE

The term"flushing" refers to repeatedly draining and filling the transmission with Acura Genuine ATF-DW1. Other after market flush systems are available, but American Honda strongly recommends that you avoid using them on any Acura vehicles.

- 1. Start the engine. Hold the engine speed at 3,000 rpm without load (in Park or Neutral) until the radiator fan comes on, then let it idle.
- 2. Position the vehicle on a lift and turn off the engine.
- 3. Remove the ATF filler bolt and sealing washer.
- 4. Raise the vehicle and make sure it is securely supported.
- 5. Remove the drain plug and drain the ATF.
- 6. Install the drain plug and original washer and torque it to 49 N·m (36 lb-ft).
- 7. Lower the vehicle and fill the transmission with 3.3 US qts (3.1 L) of ATF-DW1 through the filler hole.

NOTE

Do not use non-Acura ATF because it can affect shift quality.

- 8. Install the ATF filler bolt and original sealing washer and torque it to 44 N·m (32 lb-ft).
- 9. Check that the fluid is filled to the proper level.
- 10. Raise the vehicle and make sure it is securely supported.
- 11. Start the engine.
- 12. Press the VSA off button.
- 13. Press the brake pedal and shift to Drive.
- 14. Release the brake pedal. Press the accelerator pedal and bring the speedometer up to 50 mph. Make sure the transmission shifts through the first three lower gears and into fourth gear and the torque converter is locking up.
- 15. Apply the brakes to stop the front wheels.
- 16. Shift to Reverse, then Neutral.
- 17. Repeat the shifting procedure (steps 12 through 16) four more times.
- 18. Turn off the engine.
- 19. Repeat the above drain, fill and shifting procedure (steps 2 through 18) one more time.
- 20. After the second refill and drive cycle, drain the transmission.
- 21. Install the drain bolt with a new washer and torque to 49 N·m (36 lb-ft).
- 22. Fill the transmission with 3.3 US qts (3.1 L) of ATF-DW1.

Automatic Transmission Fluid Capacity

AWD: 3.3 US qts (3.1 L) at change 2WD: 3.3 US qts (3.1 L) at change

NOTE

Do not use non-Acura ATF because it can affect shift quality.

- 23. Install the ATF filler bolt with a new sealing washer and torque the bolt to 44 N•m (32 lb-ft).
- 24. Confirm the judder is gone and clear any DTCs that were set while driving on the lift.

25. If the Maintenance Minder did not indicate the ATF needed replacement, reset the Maintenance Minder with the HDS. For more information about resetting individual maintenance items, refer to the service information. If the Maintenance Minder indicated the ATF needed replacement and a full service was done, reset the maintenance minder with the multi-information display.

END