SAFETY RECALL
NORTH AMERICA
8HP75 TCU Weld

Reference: 63B / NHTSA 24V-413

FCA US LLC

RAM

Remedy available for

2023 (DT) Ram 1500 Pickup
2023 (DJ) Ram 2500 Pickup
2023 (D2) Ram 3500 Pickup
2023 (DD) Ram 3500 Cab Chassis

Template Version 1.0

Revision	Edition	Detail
0	June 2024	Initial Version.

SYMPTOM DESCRIPTION

The Transmission Control Unit (TCU) on about 214 of the above vehicles may have been built with an insufficient weld between the cover and baseplate. An insufficient weld between the TCU cover and baseplate could allow transmission fluid to leak onto critical electrical components resulting in a loss of transmission control. A loss of transmission control may result in a loss of motive power or park function, which can cause a vehicle crash without prior warning.

SCOPE

This recall applies only to the above vehicles equipped with an 8HP75 transmission.

NOTE: Some vehicles above may have been identified as not involved in this recall and therefore have been excluded from this recall.

IMPORTANT:
- Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Violation of this requirement by a dealer could result in a civil penalty of up to $27,168 per vehicle.
- Some of the involved vehicles may be in dealer used vehicle inventory. Dealers should complete this recall service on these vehicles before retail delivery.
- Dealers should also perform this recall on vehicles in for service.

Involved vehicles can be determined by using the VIP inquiry process.

REPAIR TO BE PERFORMED

Replace the transmission valve body.

ALTERNATE TRANSPORTATION

Dealers should proactively minimize customer inconvenience while the recall repair is being performed. Reference the Goodwill Alternate Transportation Guidelines warranty bulletin link within Recall Central on DealerCONNECT for options to support the customer while their vehicle is in service.

COMPLETION REPORTING / REIMBURSEMENT

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims paid will be used by FCA to record recall service completions and provide dealer payments.

Use the following labor operation numbers and time allowances:

Labor Description	Number	Hrs
Replace Valve Body Assembly (DT)	21-63-B1-82	2.4
Replace Valve Body Assembly (DJ, D2, DD)	21-63-B1-83	1.9

Related Op. Number	Number	Hrs
Perform Transmission Adaptation Routine (DT, DJ, D2, DD)	21-63-B1-50	0.6

Optional Equipment LOP	Number	Hrs
Hydraulic Impulse Solenoid (HIS) Equipped	21-63-B1-60	0.1

Labor Description	Number	Allowance
Floor Plan Reimbursement	95-95-95-97	Calculate See Below

Floor Plan Reimbursement represents the vehicle's average daily allowance (see table below) multiplied by the number of days the vehicle was in dealer inventory and not available for sale. This reimbursement is limited to the number of days from the date of the stop sale to the date that the remedy was made available. Note: If the vehicle was received by your dealership (KZX date) AFTER the stop sale date, you will use the KZX date instead of the stop sale date. For this Recall, the stop sale was initiated on **06/13/2024** and the remedy was made available on **06/15/2024**, therefore, the number of days cannot exceed **2** days.

Vehicle	Average Daily Allowance
2023 RAM (DT) 1500 Pickup	[redacted]
2023 RAM (DJ) 2500 Pickup	[redacted]
2023 RAM (D2) 3500 Pickup	[redacted]
2023 RAM (DD) 3500 Cab Chassis	[redacted]

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

PARTS INFORMATION

Part No.	Qty.	Part Name
RL402284AA	1	Valve Body (D2, DJ, DD)
68563804AA	1	Valve Body (DT)
06036734AA	4	HEX FLANGE HEAD (.375-16X2.50)
06036684AA	4	NUT, U (.375-16)
06101696	2	NUT, HEX FLANGE LOCK (M10X1.50)
68218925AB	8	FLUID, AUTOMATIC TRANSMISSION (QUART)

PARTS RETURN

Return the valve bodies to the PDC following the standard core return policy. Dealers will be reimbursed for the core once received by the PDC.

SPECIAL TOOLS

Number	Description
NPN	wiTECH MicroPod II / MDP
NPN	Laptop Computer
NPN	wiTECH Software
10377	Remover/Installer, Guide Sleeve
10379	Pins, Valve Body Alignment

DEALER NOTIFICATION

To view this notification on DealerCONNECT, select "Global Recall System" on the Service tab, then click on the description of this notification.

OWNER NOTIFICATION / SERVICE SCHEDULING

All involved vehicle owners known to FCA are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

VEHICLE LISTS, GLOBAL RECALL SYSTEM, VIP AND DEALER FOLLOW UP

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the "**Service**" tab and then click on "**Global Recall System**." Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

Dealers must perform this repair on all unsold vehicles before retail delivery. Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for

this recall only and is strictly prohibited from all other use.

ADDITIONAL INFORMATION

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations
FCA US LLC.

SERVICE PROCEDURE - DT

A. Remove Valve Body

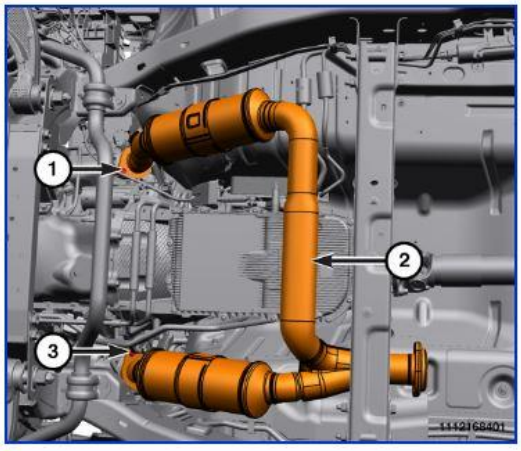
WARNING: Part of this recall population contains hybrid vehicles. Follow all safety precautions published in Service Library for the specific vehicle you are working on.

CAUTION: The Transmission Control Module (TCM), or Transmission Control Module Assembly (TCMA) is extremely sensitive to Electrostatic Discharge (ESD). Always use a ground strap and follow the ESD guidelines in ELECTROSTATIC DISCHARGE SENSITIVE DEVICES. Failure to follow these instructions may result in damage to the TCM/TCMA.

1. If equipped, using the radio menu, enter Tire Jack Mode (Vehicle Settings, Suspension, Tire Jack Mode).
2. Disconnect and isolate the negative battery cable(s) (Refer to 08 - Electrical/8F – Engine Systems/Battery System/Standard Procedure).
3. If equipped, remove the transmission skid plate (Refer to 13 - Frame and Bumpers / Under Body Protection / PLATE, Skid, Transmission / Removal and Installation).
4. Disengage the Manual Park Release on the vehicle to remove the transmission from park (Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure).
5. Disconnect the downstream oxygen sensor harness connectors and detach any routing clips for the oxygen sensor side harness.

   NOTE: Do not allow the exhaust hang or be supported by the oxygen sensor wiring.

6. Remove the left and right catalytic converter to exhaust manifold bolts (1,3) (Figure 1).
7. Remove the two nuts securing the Y-pipe to the exhaust system.
8. Reposition the exhaust Y-pipe out of the way.
9. Drain the transmission fluid (Refer to 21 - Transmission and Transfer Case/Automatic – 8HP75/FLUID and FILTER/Standard Procedure).



1 - Left Catalytic Converter To Exhaust Manifold Bolts
2 - Catalytic Converter
3 - Right Catalytic Converter To Exhaust Manifold Bolts

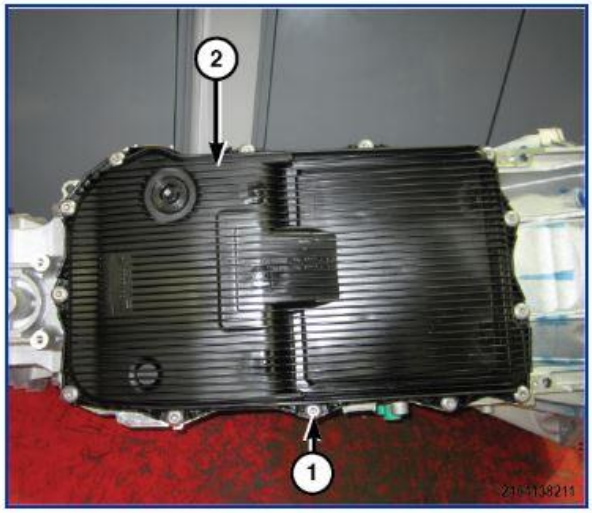
Figure 1 – Exhaust Bolts

10. Disconnect the transmission wire harness connector (1) from the transmission by rotating the connector counter-clockwise (Figure 2).

1 - Transmission Wire Harness Connector

Figure 2 – Harness Connector

11. Remove the transmission oil pan bolts (1) (Figure 3).
12. Remove the transmission oil/filter pan assembly (2) and gasket (Figure 3).

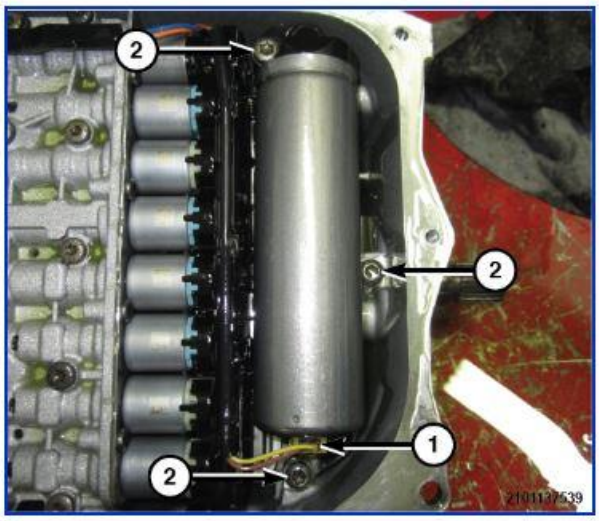


1 - Transmission Oil Pan Bolts
2 - Transmission Oil/Filter Pan Assembly

Figure 3 – Transmission Oil Pan Bolts

13. If equipped, disconnect the Hydraulic Impulse Solenoid (HIS) wire harness connector (1) (Figure 4).

14. If equipped, remove and the three HIS bolts (2) and remove the HIS accumulator (Figure 4).

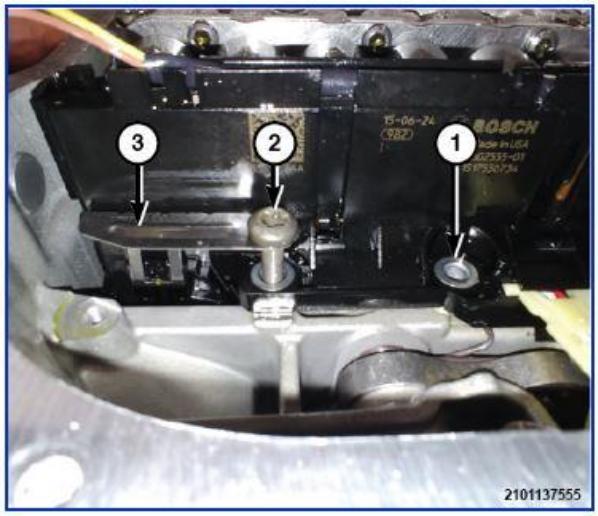


1 - Hydraulic Impulse Solenoid (HIS) Wire Harness Connector
2 - HIS Bolts

Figure 4 – HIS Connector and Bolts

15. Remove the valve body assembly end retainer bolts (1, 2) (Figure 5).

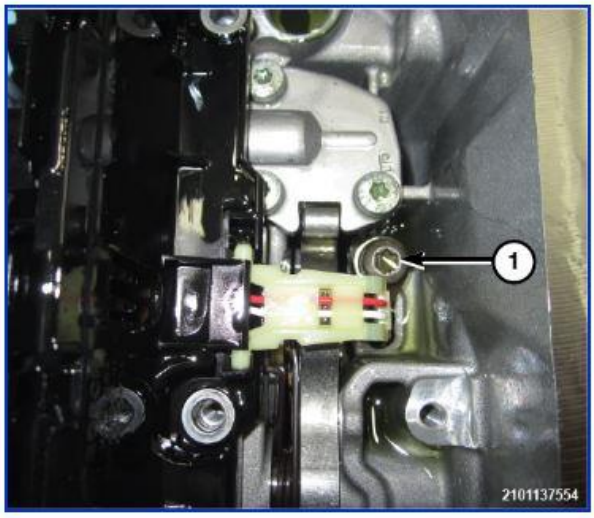
16. Lift the electrical connector lock (3) to release the internal harness end from inside the transmission for valve body assembly removal (Figure 5).



1 - Valve Body Assembly End Retainer Bolt
2 - Valve Body Assembly End Retainer Bolt
3 - Electrical Connector Lock

Figure 5 – Valve Body End Bolts and Connector Lock

17. Remove the Output Speed Sensor (OSS) bolt and pull the sensor loose from the case (Figure 6).

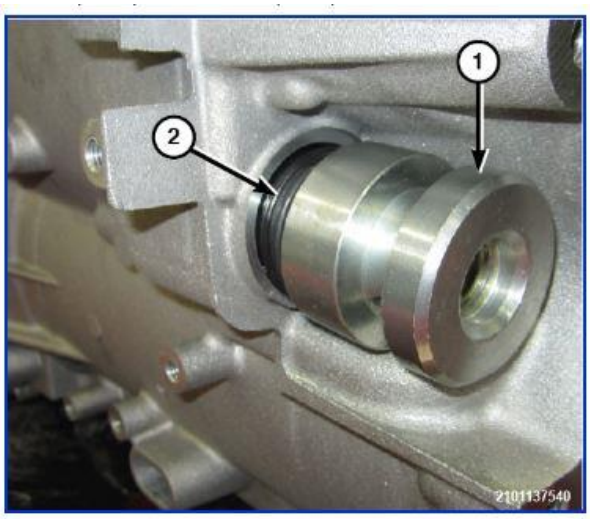


1 - Output Speed Sensor (OSS) Bolt

Figure 6 – OSS Bolt

18. Using the Remover/Installer, Guide Sleeve 10377, pull the transmission harness guide sleeve straight out from the transmission case (Figure 7).

19. Disconnect the Manual Park Release (MPR) cable end from the MPR lever. Remove the bracket bolts and remove the MPR cable and bracket from the transmission for easier removal and installation of the valve body.

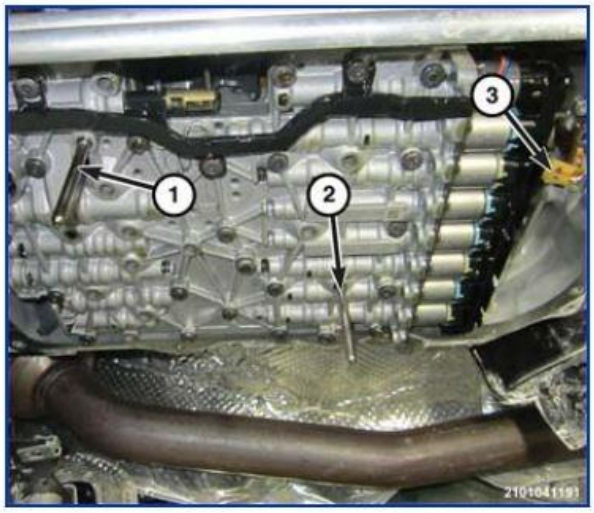


1 - Remover/Installer, Guide Sleeve 10377
2 - Transmission Harness Guide Sleeve

Figure 7 – Guide Sleeve Removal and Installation

20. Remove two valve body assembly retaining bolts in the positions shown and hand install the Pins, Valve Body Alignment 10379 (1,2) (Figure 8).

21. Use an appropriate tool on one of the alignment pins to assist in holding the valve body in position while removing the remaining fasteners.



1 - Pin, Valve Body Alignment 10379
2 - Pin, Valve Body Alignment 10379
3 - Output Speed Sensor (OSS) Wire Harness Connector

Figure 8 – Valve Body Alignment Pins

22. Remove remaining valve body assembly retaining bolts in the order shown (Figure 9).

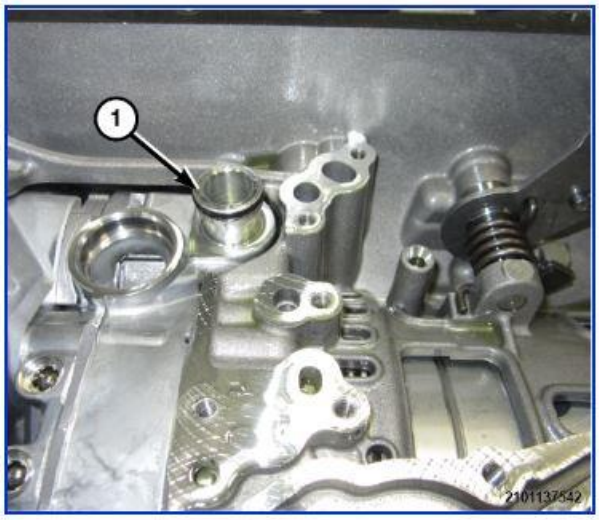
Figure 9 – Valve Body Bolts

23. Manually rotate the manual park release lever to disengage the valve body from park position and carefully lower the valve body assembly from the transmission.

    NOTE: The fluid port may remain in the valve body upon removal.

24. Remove the fluid transfer port from the transmission if it did not come out with the valve body (Figure 10).

25. Remove and **DISCARD** the fluid transfer port O-rings.



1 - Transfer Port

Figure 10 – Fluid Transfer Port

B. Install Valve Body

WARNING: Part of this recall population contains hybrid vehicles. Follow all safety precautions published in Service Library for the specific vehicle you are working on.

CAUTION: The Transmission Control Module (TCM), or Transmission Control Module Assembly (TCMA) is extremely sensitive to Electrostatic Discharge (ESD). Always use a ground strap and follow the ESD guidelines in ELECTROSTATIC DISCHARGE SENSITIVE DEVICES. Failure to follow these instructions may result in damage to the TCM/TCMA.

NOTE: If installing a new valve body, check shipping container for any loose shipped parts and install as necessary.

1. Install the fluid transfer port with **NEW** O-rings (Figure 10).
2. Install the **NEW** valve body assembly to the transmission using the previously installed Pins, Valve Body Alignment 10379 as a guide (Figure 8).

   NOTE: Check that the manual park release lever is aligned.
3. Use an appropriate tool on one of the alignment pins to assist in holding the valve body in position while installing the remaining fasteners.
4. Install the **NEW** valve body assembly retaining bolts 1-14 and hand tighten the valve body bolts (Figure 9).
5. Remove the pins and install the remaining bolts.
6. Using the Remover/Installer, Guide Sleeve 10377 carefully install the transmission harness guide sleeve to the transmission case (Figure 7).
7. Push the wire harness connector lock down to lock it to the internal wire harness connector end and install the **NEW** valve body end retaining bolts (Figure 5).

8. When installing the OSS into the case, take care to position the OSS guide pin as shown below or **DAMAGE** to the sensor may result. This is the **INCORRECT** alignment of the pin (Figure 11).

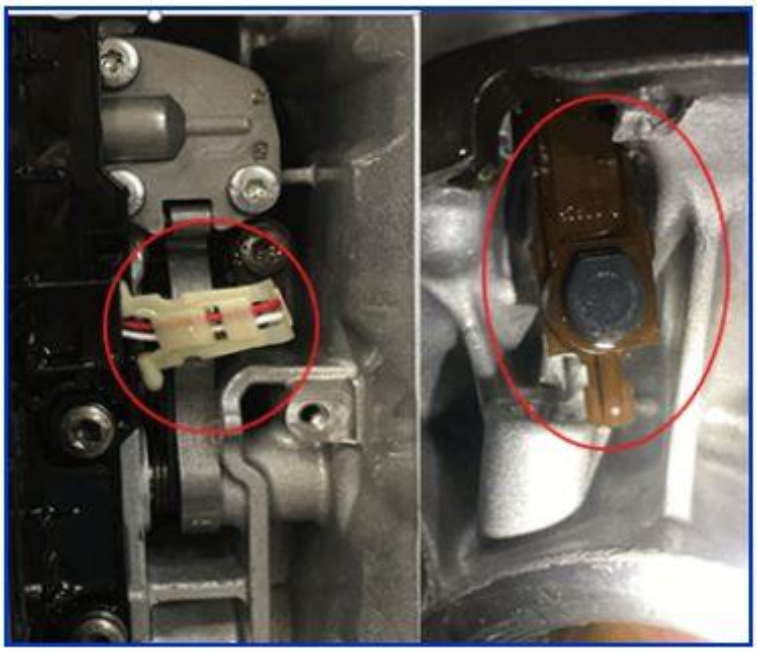


Figure 11 – Incorrect Alignment of OSS Pin

9. This is the **CORRECT** installation and pin alignment (Figure 12).

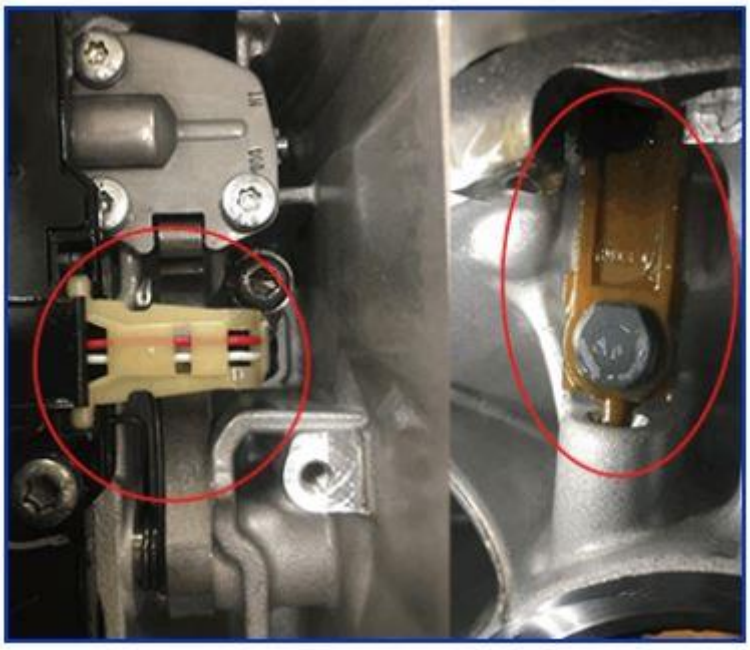


Figure 12 – Correct Alignment of OSS Pin

10. Install the OSS and install the **NEW** OSS bolt and tighten to 8 N·m (71 in. lbs.) (Figure 6)
11. Tighten **ALL** of the valve body bolts to 8 N·m (71 in. lbs.) in the sequence shown (Figure 9).
12. If equipped, install the **NEW** HIS accumulator.
13. Tighten the **NEW** HIS bolts (2) to 8 N·m (71 in. lbs.) (Figure 4).
14. Connect the HIS wire harness connector (1) (Figure 4).
15. Install the **NEW** transmission fluid/filter pan assembly and gasket.
16. Install the **NEW** transmission fluid/filter pan assembly bolts and tighten the transmission fluid/filter pan assembly bolts in the sequence shown to 10 N·m (89 in. lbs.) (Figure 13).
17. Connect the transmission wire harness connector (1) (Figure 2).
18. Turn the locking mechanism of the transmission wire harness connector clockwise to lock it in place.
19. Install the front exhaust Y Pipe (Refer to 11 - Exhaust System/PIPE, Exhaust/Removal and Installation).
20. Engage the Manual Park Release on the vehicle to put the transmission back into park (Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure).
21. Connect the negative battery cable(s) (Refer to 08 - Electrical/Battery System/Standard Procedure).

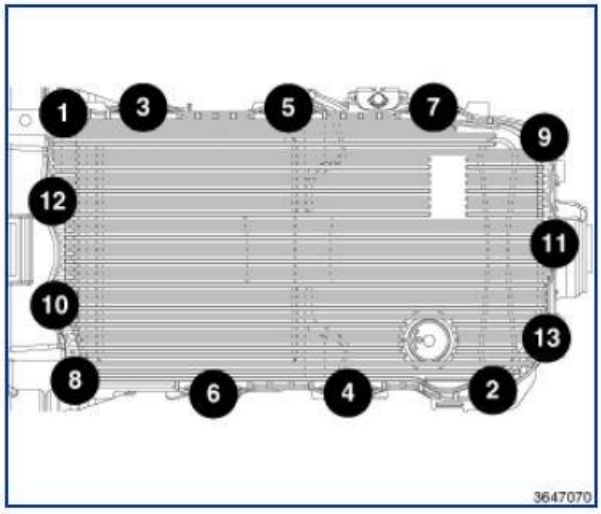


Figure 13 – Transmission Oil Pan Bolts

22. If the valve body is replaced, program the TCM (Refer to 08 - Electrical/8E - Electronic Control Modules/MODULE, Transmission Control/Module Programming).
23. Perform the FLUID/FILTER SERVICE procedure (Refer to 21 - Transmission and Transfer Case/Automatic - 8HP75 - Fluid and Filter).

    NOTE: The scan tool, for many 8-Speed Transmissions now has a QUICK LEARN or STATIC ADAPTATION (STADA) routine that should be performed if the customer has any shift quality concerns or after any internal repairs are performed on the transmission. If the QUICK LEARN or STATIC ADAPTATION routine is not available on the scan tool for the application you are working on or the shift quality concern is not corrected by performing the QUICK LEARN or STATIC ADAPTATION routine then the TCM ADAPTATION PROCEDURES below need to be performed.
24. Perform the TRANSMISSION VERIFICATION TEST (Refer to 28 - DTC-Based Diagnostics/MODULE, Transmission Control (TCM) 8HP75 - Standard Procedure).

SERVICE PROCEDURE – DJ, D2, DD

A. Remove Valve Body

WARNING: Part of this recall population contains hybrid vehicles. Follow all safety precautions published in Service Library for the specific vehicle you are working on.

CAUTION: The Transmission Control Module (TCM), or Transmission Control Module Assembly (TCMA) is extremely sensitive to Electrostatic Discharge (ESD). Always use a ground strap and follow the ESD guidelines in ELECTROSTATIC DISCHARGE SENSITIVE DEVICES. Failure to follow these instructions may result in damage to the TCM/TCMA.

1. If equipped, using the radio menu, enter Tire Jack Mode (Vehicle Settings, Suspension, Tire Jack Mode).
2. Disconnect and isolate the negative battery cable(s) (Refer to 08 - Electrical/8F – Engine Systems/Battery System/Standard Procedure).
3. If equipped, remove the transmission skid plate (Refer to 13 - Frame and Bumpers / Under Body Protection / PLATE, Skid, Transmission / Removal and Installation).
4. Disengage the Manual Park Release on the vehicle to remove the transmission from park (Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure).
5. Drain the transmission fluid (Refer to 21 - Transmission and Transfer Case/Automatic – 8HP75/FLUID and FILTER/Standard Procedure).

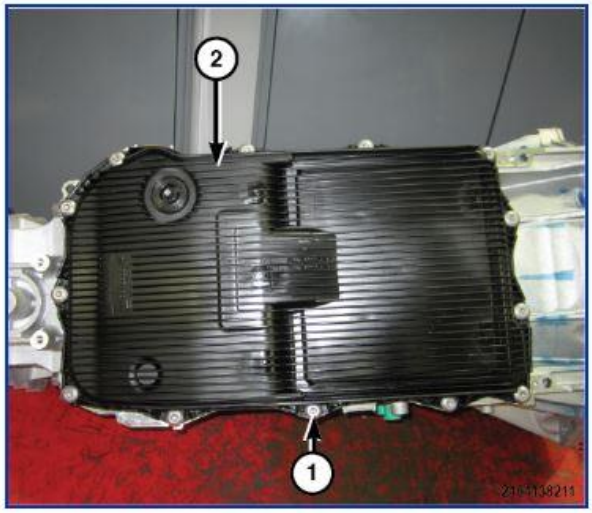
6. Disconnect the transmission wire harness connector (1) from the transmission by rotating the connector counter-clockwise (Figure 14).

1 - Transmission Wire Harness Connector

Figure 14 – Harness Connector

7. Remove the transmission oil pan bolts (1) (Figure 15).

8. Remove the transmission oil/filter pan assembly (2) and gasket (Figure 15).

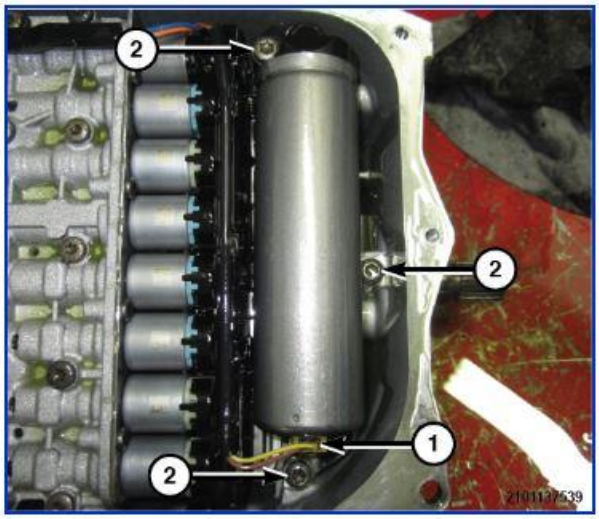


1 - Transmission Oil Pan Bolts
2 - Transmission Oil/Filter Pan Assembly

Figure 15 – Transmission Oil Pan Bolts

9. If equipped, disconnect the Hydraulic Impulse Solenoid (HIS) wire harness connector (1) (Figure 16).

10. If equipped, remove and the three HIS bolts (2) and remove the HIS accumulator (Figure 16).

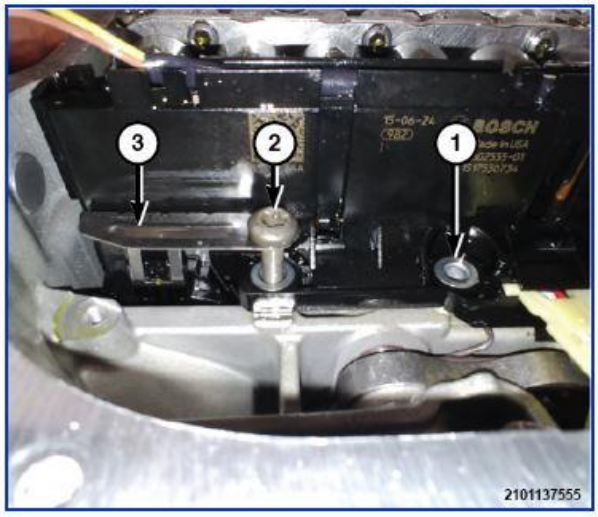


1 - Hydraulic Impulse Solenoid (HIS) Wire Harness Connector
2 - HIS Bolts

Figure 16 – HIS Connector and Bolts

11. Remove the valve body assembly end retainer bolts (1, 2) (Figure 17).

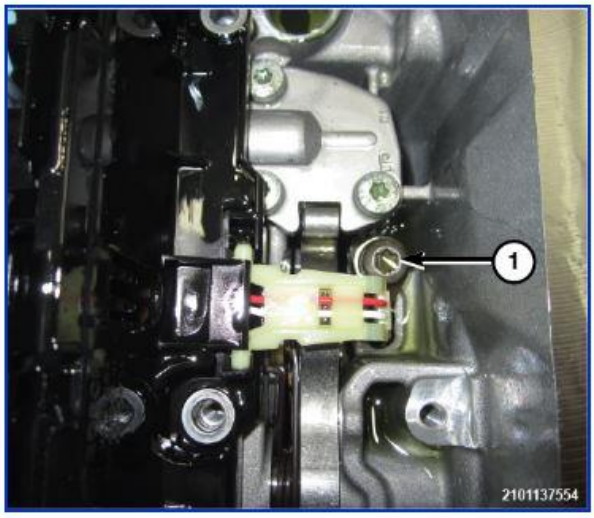
12. Lift the electrical connector lock (3) to release the internal harness end from inside the transmission for valve body assembly removal (Figure 17).



1 - Valve Body Assembly End Retainer Bolt
2 - Valve Body Assembly End Retainer Bolt
3 - Electrical Connector Lock

Figure 17 – Valve Body End Bolts and Connector Lock

13. Remove the Output Speed Sensor (OSS) bolt and pull the sensor loose from the case (Figure 18).

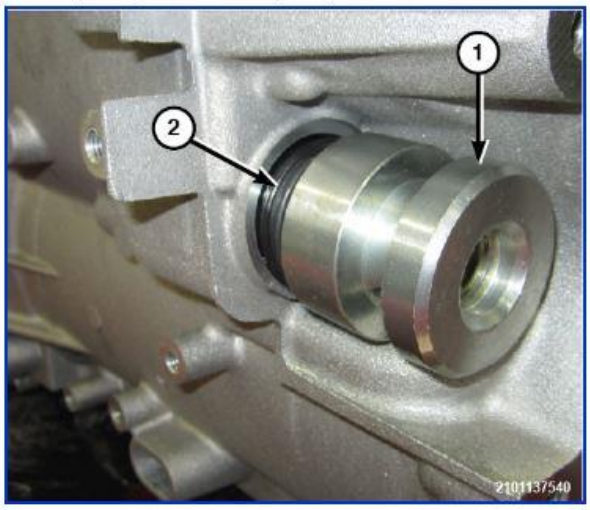


1 - Output Speed Sensor (OSS) Bolt

Figure 18 – OSS Bolt

14. Using the Remover/Installer, Guide Sleeve 10377, pull the transmission harness guide sleeve straight out from the transmission case (Figure 19).

15. Disconnect the Manual Park Release (MPR) cable end from the MPR lever. Remove the bracket bolts and remove the MPR cable and bracket from the transmission for easier removal and installation of the valve body.

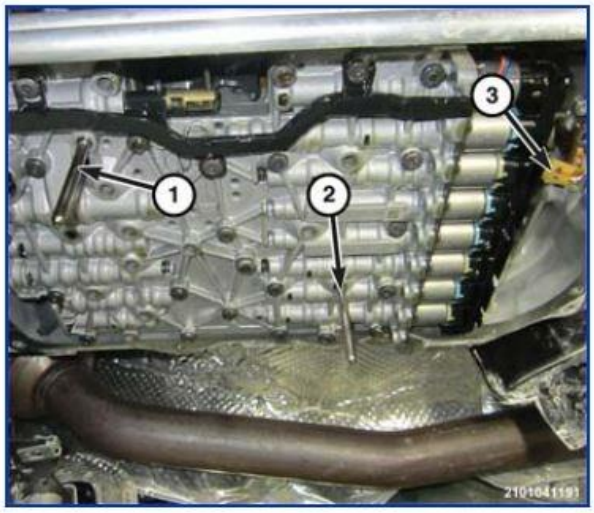


1 - Remover/Installer, Guide Sleeve 10377
2 - Transmission Harness Guide Sleeve

Figure 19 – Guide Sleeve Removal and Installation

16. Remove two valve body assembly retaining bolts in the positions shown and hand install the Pins, Valve Body Alignment 10379 (1,2) (Figure 20).

17. Use an appropriate tool on one of the alignment pins to assist in holding the valve body in position while removing the remaining fasteners.



1 - Pin, Valve Body Alignment 10379
2 - Pin, Valve Body Alignment 10379
3 - Output Speed Sensor (OSS) Wire Harness Connector

Figure 20 – Valve Body Alignment Pins

18. Remove remaining valve body assembly retaining bolts in the order shown (Figure 21).

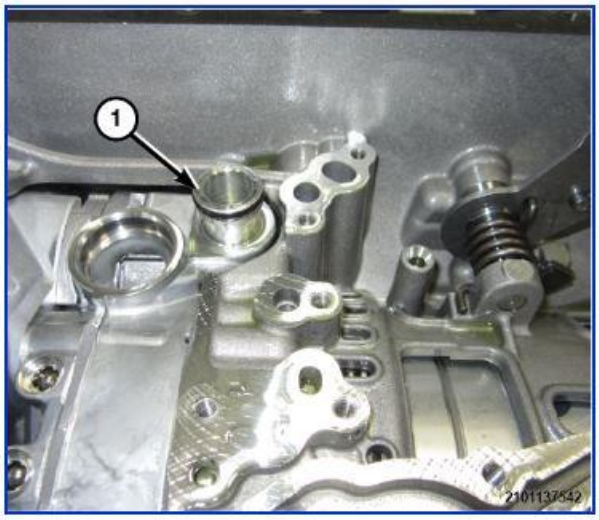
Figure 21 – Valve Body Bolts

19. Manually rotate the manual park release lever to disengage the valve body from park position. Lower the valve body while an assistant removes the Pins, Valve Body Alignment 10379, then remove the valve body.

NOTE: The fluid port may remain in the valve body upon removal.

20. Remove the fluid transfer port from the transmission if it did not come out with the valve body (Figure 22).

21. Remove and **DISCARD** the fluid transfer port O-rings.



1 - Transfer Port

Figure 22 – Fluid Transfer Port

B. Install Valve Body

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NOTE: If installing a new valve body, check shipping container for any loose shipped parts and install as necessary.

22. Install the fluid transfer port with **NEW** O-rings (Figure 22).
23. Hold the **NEW** valve body up while an assistant installs the Pins, Valve Body Alignment 10379 as a guide (Figure 20).

    NOTE: Check that the manual park release lever is aligned.
24. Use an appropriate tool on one of the alignment pins to assist in holding the valve body in position while installing the remaining fasteners.
25. Install the **NEW** valve body assembly retaining bolts 1-14 and hand tighten the valve body bolts (Figure 21).
26. Remove the pins and install the remaining bolts.
27. Using the Remover/Installer, Guide Sleeve 10377 carefully install the transmission harness guide sleeve to the transmission case (Figure 19).
28. Push the wire harness connector lock down to lock it to the internal wire harness connector end and install the **NEW** valve body end retaining bolts (Figure 17).

29. When installing the OSS into the case, take care to position the OSS guide pin as shown below or **DAMAGE** to the sensor may result. This is the **INCORRECT** alignment of the pin (Figure 23).

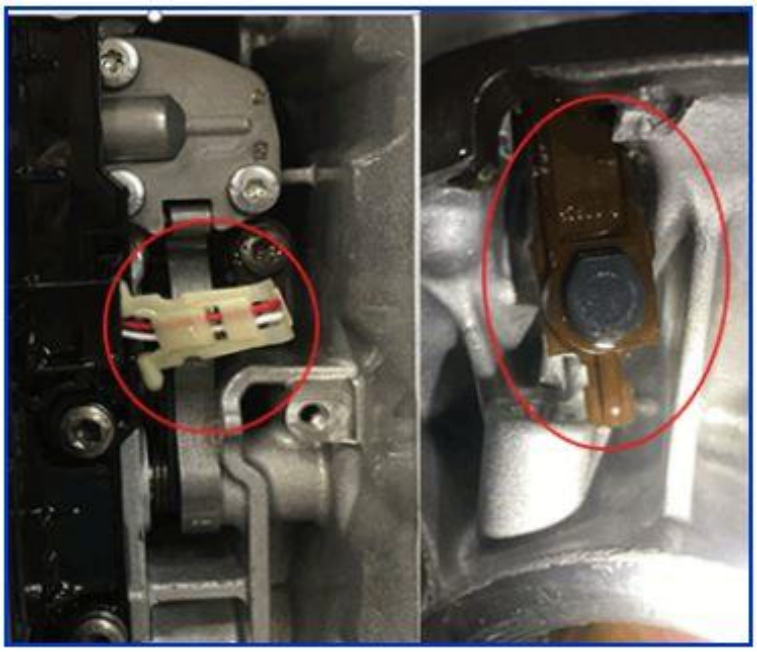

Figure 23 – Incorrect Alignment of OSS Pin

30. This is the **CORRECT** installation and pin alignment (Figure 24).

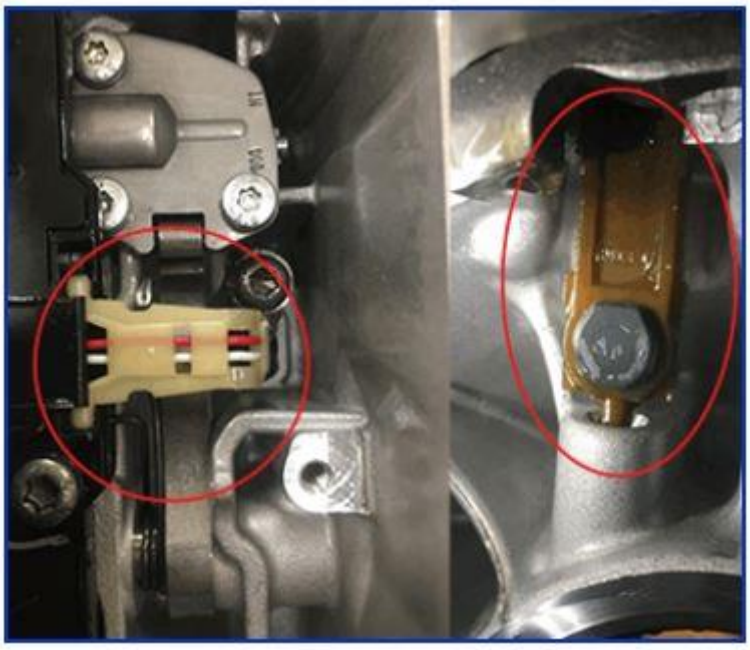

Figure 24 – Correct Alignment of OSS Pin

31. Install the OSS and install the **NEW** OSS bolt and tighten to 8 N·m (71 in. lbs.) (Figure 18)
32. Tighten **ALL** of the valve body bolts to 8 N·m (71 in. lbs.) in the sequence shown (Figure 21).
33. If equipped, install the **NEW** HIS accumulator.
34. Tighten the **NEW** HIS bolts (2) to 8 N·m (71 in. lbs.) (Figure 16).
35. Connect the HIS wire harness connector (1) (Figure 16).
36. Install the **NEW** transmission fluid/filter pan assembly and gasket.
37. Install the **NEW** transmission fluid/filter pan assembly bolts and tighten the transmission fluid/filter pan assembly bolts in the sequence shown to 10 N·m (89 in. lbs.) (Figure 25).
38. Connect the transmission wire harness connector (1) (Figure 14).
39. Turn the locking mechanism of the transmission wire harness connector clockwise to lock it in place.
40. Engage the Manual Park Release on the vehicle to put the transmission back into park (Refer to 21 - Transmission and Transfer Case/Automatic/Standard Procedure).
41. Connect the negative battery cable(s) (Refer to 08 - Electrical/Battery System/Standard Procedure).

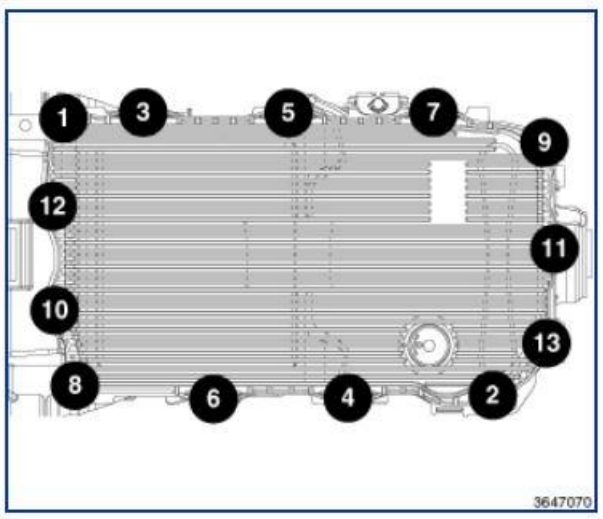

Figure 25 – Transmission Oil Pan Bolts

42. If the valve body is replaced, program the TCM (Refer to 08 - Electrical/8E - Electronic Control Modules/MODULE, Transmission Control/Module Programming).
43. Perform the FLUID/FILTER SERVICE procedure (Refer to 21 - Transmission and Transfer Case/Automatic - 8HP75 - Fluid and Filter).

    NOTE: The scan tool, for many 8-Speed Transmissions now has a QUICK LEARN or STATIC ADAPTATION (STADA) routine that should be performed if the customer has any shift quality concerns or after any internal repairs are performed on the transmission. If the QUICK LEARN or STATIC ADAPTATION routine is not available on the scan tool for the application you are working on or the shift quality concern is not corrected by performing the QUICK LEARN or STATIC ADAPTATION routine then the TCM ADAPTATION PROCEDURES below need to be performed.

44. Perform the TRANSMISSION VERIFICATION TEST (Refer to 28 - DTC-Based Diagnostics/MODULE, Transmission Control (TCM) 8HP75 - Standard Procedure).