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BD PERFORMANCE TRANSMISSION

2007-2017 Dodge 68RFE Installation Instructions

2WD Transmissions	
1064262	2007-2017
1064262B	2007-2017 Billet Input Shaft

4WD Transmissions	
1064264	2007-2017
1064264B	2007-2017 Billet Input Shaft

68RFE Torque Converters			
1071219X	1071219X BD Triple-Lock Enhanced Stall (Standard Stall)		
1071219LX BD Triple-Lock Low Stall			

Please read the instructions and warranty disclaimer before beginning installation. WARRANTY VOID UNLESS ALL INSTALLATION PROCEDURES ARE FOLLWED All learn procedures should be performed at the operating power setting of the vehicle.

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DO THIS FIRST

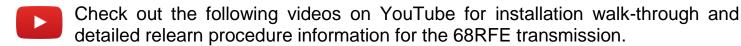
Check off boxes to ensure you do not miss any important steps. Failure to perform some of these steps stated below may void your warranty.

OStep 1	Read the transmission warranty statement (With Customer).	
OStep 2	Complete top part of the transmission warranty form.	
OStep 3	Ensure you have an OEM or equivalent scan tool. If you do not have this tool, DO NOT INSTALL THIS TRANSMISSION.	
OStep 4	Record CVI's of stock transmission and record on warranty form BEFORE preforming quick learn.	
OStep 5	Proceed with RE & RE of transmission - see installation instructions below	
OStep 6	Install BD 68 RFE pressure module.	
OStep 7	Using pressure adapter kit (1061529) record pressures on warranty sheet.	
OStep 8	Proceed with relearn procedure while continuing to update warranty sheet	
OStep 9	Fax warranty sheet to BD diesel and keep a copy for your records.	

Introduction

BD Diesel 68RFE Transmissions incorporate many upgrades and updates to improve transmission longevity and performance.

- · Brand new anodized valve body and solenoid pack installed in every unit
- Custom valve body separator plate with gaskets increases line pressure while stopping internal cross leaks
- Heavy duty cam & roller design low reverse one way clutch
- New 4C billet spring retainer
- Steel girdle added to 2C piston to allow for more clutches and broader apply area
- BD durable QT100 pressure plates allow for increased clutch counts and reduce deflection and distortion within the clutch drum
- Clutch count increased to hold high torque level Over Drive 17% increase, Under Drive 20%, 2C 33% increase
- BD reinforced accumulator plate
- TCC limit valve machined and sleeved to address high wear area with in pump
- BD Deep sump oil pan adds extra fluid and cooling capacity while reducing case flex
- BD ProTech68 pressure control module ramps up line pressure to 250 psi using MAP sensor to input load and adjust pressure required





Transmission Installation Video https://w
ww.youtube.com/watch?v=PdTHNtSRfSo



Quick Learn and Drive Learn Video https://www.you
tube.com/watch?v=MdTH4ZyPXw4

Important

The 68RFE transmission has a unique TCM control strategy and it is imperative the instruction for the "Quick learn" are followed closely. Not following these directions correctly will result in a void warranty and will lead to premature failure. Do not use the vehicle for heavy towing or hauling until 300 miles of stop and go driving has elapsed to allow the computer to relearn the new transmission.



Burnt clutches are not covered by warranty. Failure to correctly adhere to this procedure may result in clutches that look like this.

Special Tools Required

Scanner

Chrysler Scanners

SCANNER	YEAR
WiTech	2007-Current
Star Mobile	2007-Current
StarScan	2007-2009

Aftermarket Scanners

SCANNER	YEAR
Snap-On Modis	All
Auto Enginuity	All
(with EI04 enhanced	
Dodge coverage)	
Other scanners with FUL	L OE
coverage (not code read	ers)



300 psi oil filled gauge, with approx. 6ft line with male 1/8" NPT fitting.



Maintenance

BD recommends the first transmission oil and filter change to occur at the 3 month or 5,000 miles/8,000 km interval. This quick interval will not only give you piece of mind, but will also rid the transmission of any prior debris dislodged from the cooler. After this, OE service intervals are acceptable.

Use only MOPAR ATF+4 transmission fluid. This is the only acceptable fluid for use in this transmission.

Aftermarket Tuners and TCMs

If using any aftermarket TCM tuning, the tuner must **NOT** increase mainline pressure. This will conflict with the BD pressure controller which will also increase line pressure. Using both the controller and tuning will set a P0868 fault code and may cause shift issues. Be sure to disable line pressure changes in your tuner.

Other transmission tuning, for example raising the 4-5 and 5-6 shift points will not conflict and may be run with the BD pressure module.

We recommend doing the drive learn process with the tuner set to the power level the truck is normally used at. Do not go full throttle during shifts until the transmission has had time to learn its CVI values.

When tuner power levels change the transmission will have to adapt shift timing, this leads to additional unnecessary wear. We suggest not frequently changing power levels.

Transmission Installation

Transmission Removal

Disconnect the negative battery cable.

Raise and support the vehicle.

Remove any necessary skid plates.

Drain transmission.

NOTE: Mark drive shaft and axle companion flanges for assembly alignment.

Remove the rear drive shaft.

Remove the front drive shaft, if necessary.

Remove the exhaust support bracket from the converter housing.

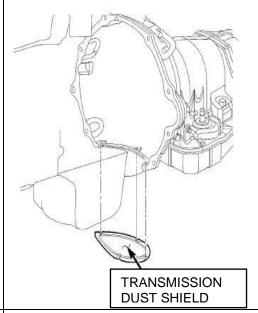
Remove the bolts securing the right power bending bracket to the engine block and the transmission adapter plate.

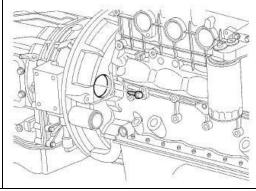
Remove the right side power bending bracket.

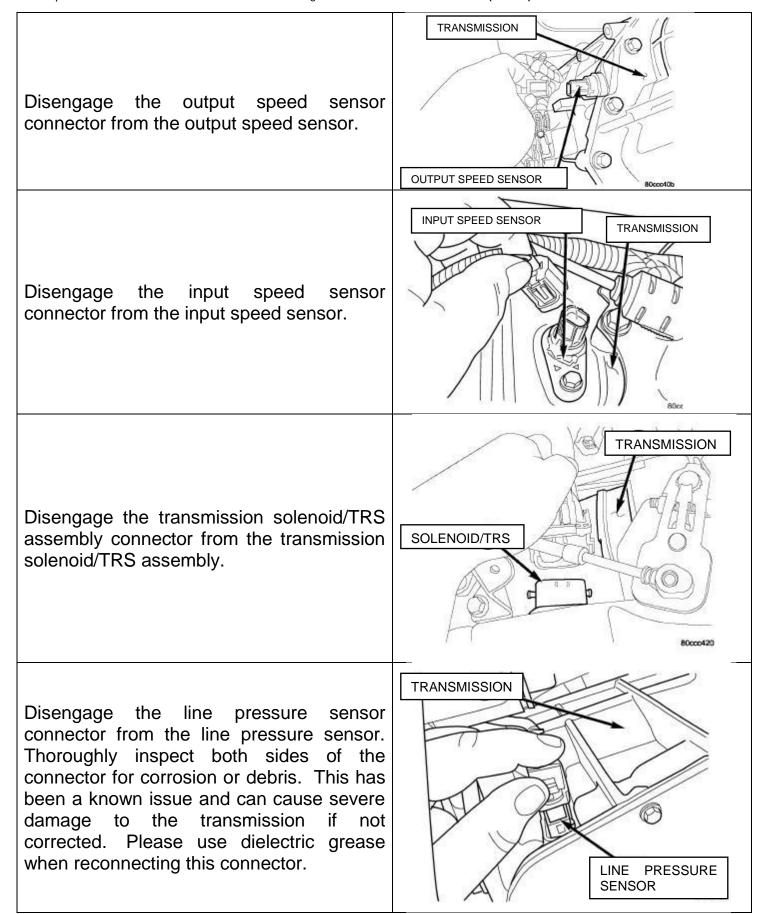
Loosen the inspection cover bolts and rotate the inspection cover out of the way.

Remove the transmission dust shield.

Rotate the fly wheel by using the Chrysler barring tool # 7471B or a blade screw driver and remove the torque converter bolts one at a time.



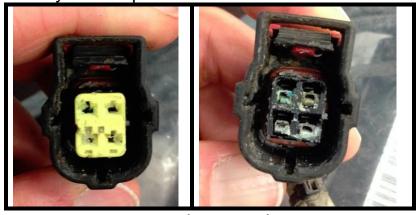




Important Inspection Notes

Corrosion in Connectors

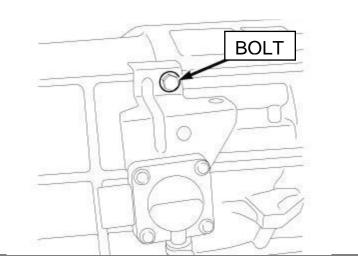
You must check the Transmission Line Pressure connection for corrosion. It is not evident until you pull the yellow cap from the inside of the connector.



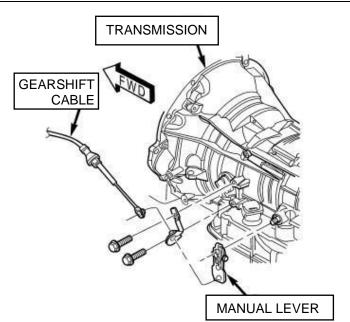
Corroded line pressure sensor connections are known to cause erratic shift quality concerns due to wildly varying transmission line pressure and in some cases cause broken transmission shafts. If corrosion is present, replace the entire connector assembly.

Disconnect electrical connector from the differential pressure sensor.

Remove bolt securing differential pressure sensor to the transmission case and position differential pressure sensor aside.



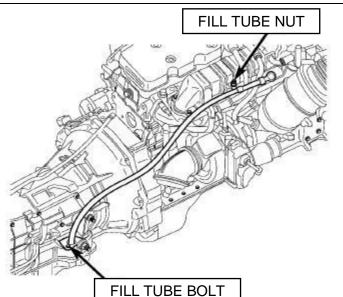
Disconnect gearshift cable from transmission manual valve lever.



Remove the wiring harness and position aside.

Remove the bolt securing the fill tube at the transmission.

Disconnect the cooler lines from the transmission using cooler line disconnect tool Chrysler # 9546.



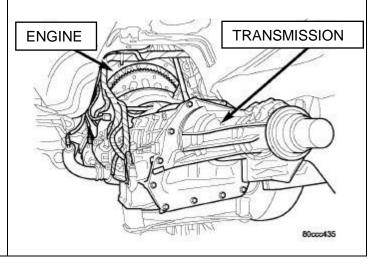
Support rear of engine with safety stand or jack.

Raise transmission slightly with service jack to relieve load on crossmember and supports.

Remove the wiring harness from the crossmember and position aside.

Remove bolts securing rear support and cushion to transmission and remove the crossmember from the vehicle.

If equipped, Disconnect vent lines and connectors to the transfer case assembly. Remove mounting nuts for the transfer



case and remove the t/case from the vehicle.

Disconnect the transmission vent hose from the transmission.

Remove all remaining converter housing bolts.

Carefully work transmission and torque converter assembly rearward off engine block dowels while removing the fill tube from the fill tube bore.

Hold torque converter in place during transmission removal.

Lower transmission and remove assembly from under the vehicle.

Transmission Cooler Flush

Before installing your BD transmission you must flush the transmission coolers using a backflow heated transmission flushing machine. By not doing this you may void your warranty.

If the transmission you are removing failed or has an excessive amount of debris in the pan, you should replace the transmission cooler and check valve assembly.

Torque Converter Removal

To remove the torque converter from the old transmission, carefully slide torque convert out of the transmission and drain as much fluid as possible.

All components and cores must be drained of fluid before sending back to BD for core credit.

To ship core back, reinstall torque converter using the special retainer plate that came on the new transmission. This will prevent damage during return shipping.

Torque Converter Installation

Upon installation ensure the brass drain plug is installed in the torque converter and preload the torque converter with 5 quarts of MOPAR ATF+4 fluid. Do not use any other transmission fluid type!

Check torque converter hub and hub drive flats for sharp edges burrs, scratches, or nicks. Polish the hub and flats with 800/1000 grit paper and crocus cloth if necessary. Verify that the converter hub o-ring is properly installed and is free of any debris. The hub must be smooth to avoid damaging pump seal at installation.

Lubricate oil pump seal lip with transmission fluid.

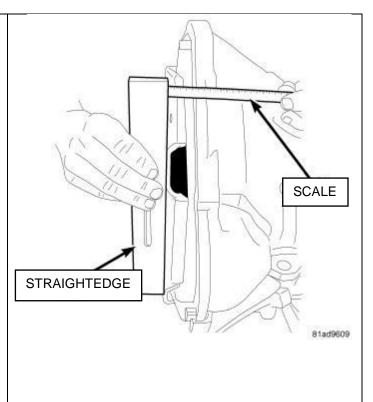
Prefill torque convertor with 5 quarts of Mopar ATF+4 before installing.

Align converter and oil pump.

Carefully insert converter in oil pump. Then rotate converter back and forth until fully seated in pump gears.

Check converter seating with steel scale and straightedge. Surface of converter lugs should be in front of the bell housing face about 25 mm, (1 in.).

Temporarily secure converter with C-clamp.



Transmission Installation

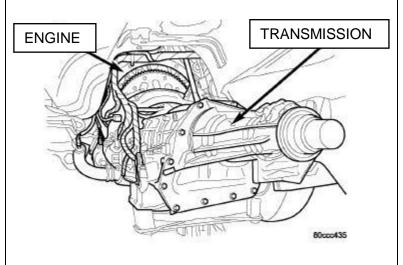
Note: The following items and procedures are critical in the safe operation of your transmission. Failure to follow these recommendations will result in a VOIDED WARRANTY.

Transfer any components necessary, such as the manual shift lever and shift cable bracket, from the original transmission onto the BD performance transmission.

Position transmission on jack and secure it with chains.

Check condition of converter driveplate. Replace the plate if cracked, distorted or damaged. A BD flexplate would make a great upgrade.

Also be sure transmission dowel pins are seated in engine block and protrude far enough to hold transmission in alignment.



Apply a light coating of Mopar® High Temp Grease to the torque converter hub pocket in the rear pocket of the engine's crankshaft.

Raise transmission and align the torque converter with the drive plate and transmission converter housing with the engine block.

Move transmission forward. Then raise, lower or tilt transmission to align the converter housing with engine block dowels while positioning filler tube into the filler tube bore.

Carefully work transmission forward and over engine block dowels until converter hub is seated in crankshaft. Verify that no wires, or the transmission vent hose, have become trapped between the engine block and the transmission.

Install two bolts to attach the transmission to the engine, and check to ensure the torque converter is still able to rotate.

Install remaining torque converter housing to engine bolts. Tighten to 68 N.m (50 ft.lbs.).

CAUTION: It is essential that the correct length bolts are used to attach the converter to the flex plate. Bolts that are too long will damage the clutch surface inside the torque converter.

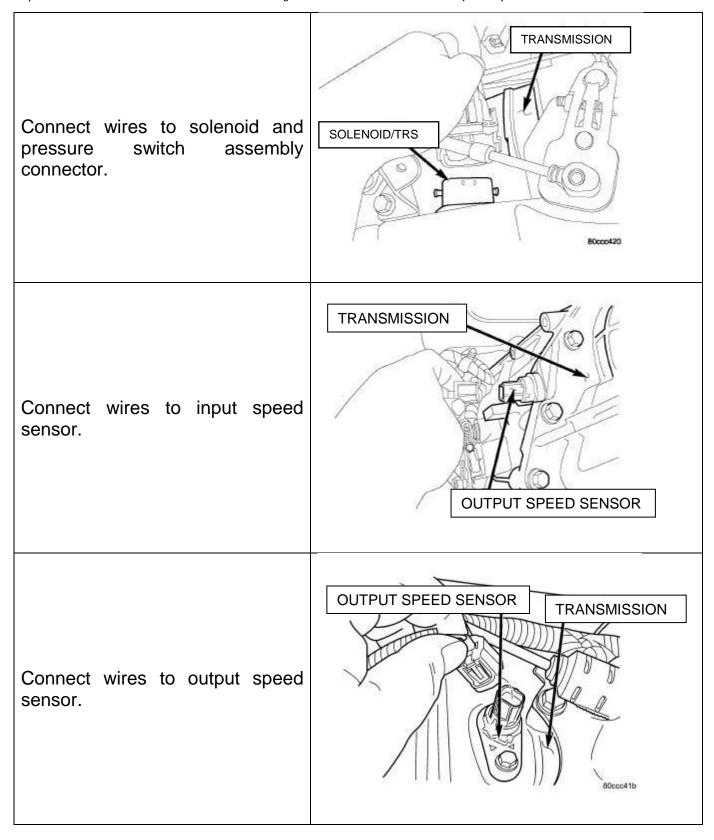
Install torque converter-to-driveplate bolts. Tighten bolts to 88 N.m (65ft.lbs). Thread locker is recommended on the torque converter bolts.

If equipped, Install transfer case. Tighten transfer case nuts to 35 N.m (26 ft.lbs.). Install rear support to transmission. Tighten bolts to 47 N.m (35 ft.lbs.). Install crossmember.

Lower transmission onto crossmember and install bolts attaching transmission mount to crossmember. Tighten clevis bracket to crossmember bolts to 47 N.m (35 ft.lbs.). Tighten the clevis bracket to rear support bolt to 68 N.m (50 ft.lbs.). Remove engine support fixture.

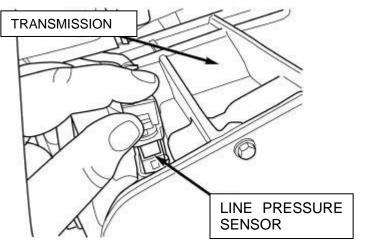
Install the transmission inspection cover. Tighten the bolts to 10N.m (88 in.lbs.) Install the right side power bending bracket.

Install the right side power bending bracket. Install the transmission dust shield. **DUST SHIELD TRANSMISSION** SHIFT **CABLE** Connect gearshift cable to transmission. MANUAL LEVER

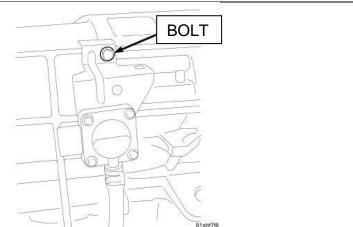


Connect wires to line pressure sensor. Be sure transmission harnesses are properly routed.

NOTE: Use dielectric grease when reconnecting this connector.



Install the differential pressure sensor bolt (if equipped). Tighten bolt to 10N.m (88 in.lbs.).



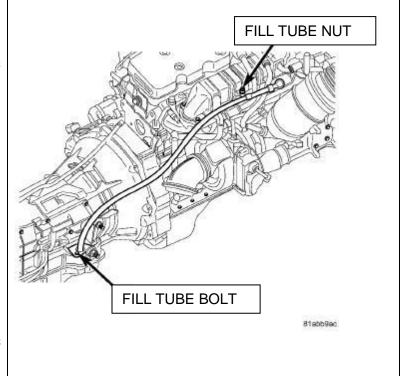
Connect cooler lines to transmission.

Install transmission fill tube bolt. Tighten bolt to 10N.m (88 in. lbs.) Install exhaust components, if necessary.

Align and connect drive shaft(s).

Drive Shaft Torque Specs		
Front Axle	28Nm (21ftlbs)	
Front T-	88Nm (65ftlbs)	
Case	(331)	
Center		
Bearing	54Nm (40ftlbs)	
Bolts		
Rear Bolts	115Nm(85ftlbs)	

Adjust gearshift cable if necessary.



Pressure Test Adapter Installation

Disconnect and remove line pressure sensor.

Install pressure adapter with OE sensor back into transmission, attach 300 PSI liquid filled gauge to pressure

Route gauge from under vehicle into cab leaving sufficient clearance to exhaust system and moving parts. Lower vehicle.

Transmissions that will include BD's Pressure adapter Kit are:

1064262 & 1064262B

1064264 & 1064264B

This Pressure adapter kit should remain with the vehicle for future service.

68RFE Pressure Module Installation

In order to complete the transmission installation the Line Pressure Module (1030369) provided with this kit will need to be installed. Please follow the instructions that come with the module kit.

Fluid Fill and Check

Fill transmission with MOPAR ATF+4 fluid. (See table below for suggested amounts).

NOTE: Fill capacities listed only as a guide. **Correct fluid level should always be determined by marks on dipstick**. Capacities listed are total system capacity including torque converter and BD pan.

<u>Application</u>	First Fill Quarts (Liters)	Secondary Fill Quarts (Liters) (Includes TC Preload)	Total Capacity (Liters)
2007.5-2017	12 (11.4)	Approx 10 (9.4)	22 (20.8)

Once transmission fluid is filled, start truck but **do not** drive it yet. Allow the transmission to pump fluid into the converter, coolers etc. Re-check fluid level.

Transmission Quick Learn

CRITICAL STEP!

Connect a Chrysler or equivalent aftermarket scan tool to the vehicle. Clear any existing transmission fault codes from last transmission.

BEFORE you begin the QUICK LEARN process, record the CVI values from the old transmission on your warranty sheet.

Select QUICK LEARN from the special function menu. If your scan tool does not have the QUICK LEARN function STOP. Do not drive vehicle. You will not be able to complete installation.

Follow the instruction on the scan tool. The transmission will engage the various clutches to determine base CVI values and will clear its adaptive learning history.

BEFORE you drive the vehicle, record the new CVI values on your warranty sheet. The transmission is now ready for drive learning and pressure checks.



See BD Diesel YouTube video for more information on this procedure. Check out the Introduction section above for YouTube links!

Road Test and Pressure Checks

Before leaving for the road test, verify transmission pressures. If transmission pressures idle pressure are not as expected do not test drive vehicle. Re-check fluid level, check for fault codes or unplugged sensors. Call BD Transmission tech support for assistance.

Mainline Pressures (68 RFE)		
At Idle	Wide Open Throttle	
60-120 psi	250 psi	

Line pressure varies depending on load, operating state of the transmission etc. At idle in PARK with foot off the brake 60psi is expected. Applying the brake or shifting into gear will yield approximately 120psi.

Do not allow the vehicle to shift at full throttle when obtaining the WOT line pressure check as it will not yet fully relearned. Instead, use the factory tap shifter buttons to prevent shifting above 4th gear. Lightly accelerate until in fourth and in lockup. Then accelerate to WOT in this gear to get a pressure reading.



See BD Diesel YouTube video for more information on this procedure. Check out the Introduction section above for YouTube links!

Drive Learn Procedure

Accelerate with the minimum throttle required when leaving the shop and get onto a quiet stretch of road.

Slowly accelerate the vehicle from first gear up to fourth gear.

Repeat this process a few times until the shift quality becomes consistent. Increase throttle slightly and repeat the procedure.

As shift quality improves, allow truck to shift into 5th and 6th gears also. Generally if gears 1-4 are correctly learned 5th and 6th will shift nicely as they use the same clutches as 2nd and 3rd.

Complete a series of N to D and N to R shifts and verify shift quality is acceptable.

See detailed transmission drive learn information below to target specific shifts and for more detailed information.



See BD Diesel YouTube video for more information on this procedure. Check out the Introduction section above for YouTube links!

Final Check and Gauge Removal

After drive learn and pressure checks are complete, bring truck back into shop and remove the transmission pressure gauge adapter.

Use the scan tool to view CVI values and record these on the transmission warranty sheet.

Verify the fluid level now that it is hot and top up if required.

Returning the Vehicle to the Customer

When returning the vehicle to the customer they must be informed the truck is not to be used for heavy towing or hauling until 300 miles of stop and go driving has been completed so that the TCM has time to adjust shift timing correctly.

Go over the warranty statement with them again at this time if not done before and ensure they are aware of the 5000 mile / 8000km first fluid change requirement. See maintenance section at front of manual.

Detailed Relearn Information

You must perform a transmission quick learn, in order for the TCM to recalibrate to the new CVI indexes. This can be accomplished with a OE level scan tool.

The quick learn/drive learn procedure must be performed should any of the following repairs are applied on the vehicle.

- 1) Transmission Replacement
- 2) Transmission Control Module Replacement (TCM)
- 3) Solenoid Pack Replacement
- 4) Clutch Plate and/or Seal Replacement
- 5) Valve Body Replacement or Recondition
- 6) Torque Convertor Replacement
- 7) Battery Disconnect or Replacement
- 8) Power Upgrade or Flash Programmer Installation and/or Updates.

A relearn may be caused due to:

- 1) Faulty electrical connection
- 2) Sensor failure

68RFE Transmission Learn Procedure

Once the transmission is installed and full of fluid a scan tool must be connected. The first step is to locate the TCM or ECM Reset and complete the test. Next locate the Clutch Fill Volume Index (CVI) values in the data section of the Transmission Control Module (TCM). This data is in the Powertrain Control Module (PCM) on 2010-12 models. Record these values on the data sheet provided. Next a Quick Learn will need to be performed. This test will be located in the MISC section of the TCM or PCM. After the Quick Learn has completed, the CVI values will need to be recorded again.

Now you are ready for the initial test drive. It is imperative on this test drive not to accelerate aggressively. Bring the vehicle up to normal operating temperature. Try to locate a long level stretch of road with very little to no traffic. To initiate the first part of the drive learn bring the vehicle to a complete stop, place the transmission into reverse gear for 2-3 seconds and then back into drive. While watching throttle percentage accelerate holding a 15 degree throttle angle through the 1-2, 2-3 and 3-4 upshifts and bring the vehicle back to a stop. Now repeat the acceleration and upshift procedure at least 2-4 times before the next reverse or park gear selection. This complete procedure needs to be repeated until the CVI values stabilize (stop changing during shifts). When the CVI values have stabilized the drive learn can process is now ready for some heavier throttle upshifts. The vehicle should be accelerated from a stop at a 30 degree throttle angle through all gears to verify quick clean shifts. If any stumble, chatter, clunking is felt repeat the initial drive learn test again to re-stabilize the CVI values. When upshifts are feeling quick and crisp the vehicle can be accelerated at a higher and higher throttle percentage through all gears until 50-60 percent throttle is

reached. If at any time the transmission upshifts become irregular initial drive learn procedure will need to be applied.

After the drive learn is complete and the transmission is shifting correctly a final recording of the CVI values should be entered on to data sheet provided. As well any particularly objectionable shifts can be fine-tuned by following the applicable procedure below.

At this time vehicle can be released to customer to complete break in period.

NOTE: It is not necessary to perform the complete Drive Learn procedure every time the TCM is Quick Learned. Perform only the portions which target the objectionable shift.

LEARN A SMOOTH 1ST NEUTRAL TO DRIVE SHIFT

Perform this procedure only if the complaint is for a delayed or harsh shift the first time the transmission is put into gear after the vehicle is allowed to set with the engine not running for at least 10 minutes. Use the following steps to have the TCM learn the 1st N-D UD CVI.

NOTE: The transmission oil temperature must be between 80 - 110°F (27 - 43°C).

Start the engine only when the engine and ignition have been off for at least ten (10)minutes. With the vehicle at a stop and the service brake applied, record the 1st N-D UD CVI while performing a Neutral to Drive shift. The 1st N-D UD CVI accounts for air entrapment in the UD clutch that may occur after the engine has been off for a period of time.

Repeat 1 and 2 until the recorded 1st N-D UD CVI value stabilizes.

NOTE: It is important that this procedure be performed when the transmission temperature is between 80 - 110°F (27 - 43°C). If this procedure takes too long to complete fully for the allowed transmission oil temperature, the vehicle may be returned to the customer with an explanation that the shift will improve daily during normal vehicle usage. The TCM also learns at higher oil temperatures, but these values (line pressure correction values) are not available for viewing on the scan tool.

LEARN A SMOOTH NEUTRAL TO DRIVE GARAGE SHIFT

Perform this procedure if the complaint is for a delayed or harsh shift when the transmission is put into gear after the vehicle has had its first shift. Use the following steps to have the TCM learn the Norm N-D UD CVI.

NOTE: The transmission oil temperature must be between 80 - 110°F (27 - 43°C)

to learn the UD CVI. Additional learning occurs at temperatures as low as 0°F and as high as 200°F. This procedure may be performed at any temperature that experiences poor shift quality. Although the UD CVI may not change, shift quality should improve.

Start the vehicle engine and shift to drive.

Move the vehicle forward to a speed of at least 16 km/h (10 MPH) and come to a stop. This ensures no air is present in the UD hydraulic circuit.

Perform repeated N-D shifts at a stop while pausing in Neutral for at least 2-3 seconds and monitor Norm N-D UD CVI volume until the value stabilizes. The value will change during the N-D shift. This is normal since the UD value is different for the N-D shift then the normal value shown which is used for 4-3 coastdown and kickdowns. Perform repeated shifts in this temperature range until the Norm N-D UD CVI value stabilizes and the N-D shifts become smooth.

LEARN THE 1ST 3-4 SHIFT AFTER A RESTART OR SHIFT TO REVERSE

Use the following steps to have the TCM learn the 1st 3-4 shift OD CVI.

NOTE: The transmission oil temperature must be above 80°F (27°C).

With the vehicle engine running, select reverse gear for over 2 seconds.

Shift the transmission to Drive and accelerate the vehicle from a stop at a steady 15 degree throttle opening and perform a 3-4 shift while noting the 1st 3-4 OD CVI.

Shift the transmission to Drive and accelerate the vehicle from a stop at a steady 15 degree throttle opening and perform a 3-4 shift while noting the 1st 3-4 OD CVI.

Repeat 1 and 2 until the 1st 3-4 upshift becomes smooth and the 1st 3-4 OD CVI stabilizes.

LEARN A SMOOTH 3-4 AND 4-5 UPSHIFT

NOTE: The transmission oil temperature must be above 110°F (43°C).

Use the following steps to have the TCM learn the OD and 4C CVI's.

Accelerate the vehicle from a stop at a steady 15 degree throttle opening and perform multiple 1-2, 2-3, 3-4 and 4-5 upshifts. The 2nd 3-4 shift following a restart or shift to reverse will be shown during the shift as a value between the 1st 3-4 OD CVI and the normal OD CVI. Updates to the normal OD CVI will occur after the 2nd shift into 4rd gear, following a restart or shift to reverse.

Repeat 1 until the 3-4 and 4-5 shifts become smooth and the OD and 4C CVI become stable. LEARN A SMOOTH 5-4 COASTDOWN AND PART THROTTLE 5-4 KICKDOWN

NOTE: The transmission oil temperature must be above 110°F (43°C).

Use the following steps to have the TCM learn the UD shift volume.

At a vehicle speed between 64-97 km/h (40-60 MPH), perform repeated 5-4 kickdown shifts. Repeat 1 until the UD volume becomes somewhat stable and the shift becomes smooth.

LEARN A SMOOTH 1-2 UPSHIFT AND 3-2 KICKDOWN

Use the following steps to have the TCM learn the 2C shift volume.

NOTE: The transmission oil temperature must be above 110°F (43°C).

With a vehicle speed below 48 km/h (30 MPH) and the transmission in 3rd gear, perform multiple 3-2 kickdowns.

Repeat 1 until the 3-2 kickdowns become smooth and the 2C CVI becomes stable.

LEARN A SMOOTH MANUAL 2-1 PULLDOWN SHIFT AS WELL AS A NEUTRAL TO REVERSE SHIFT

NOTE: The transmission oil temperature must be above 110°F (43°C).

Use the following steps to have the TCM learn the LR volume.

With the vehicle speed around 40-48 km/h (25-30 MPH) in Manual 2nd, perform manual pulldowns to Low or 1st gear at closed throttle.

Repeat 1 until the LR CVI becomes stable and the manual 2-1 becomes smooth.

LEARN A SMOOTH NEUTRAL TO REVERSE SHIFT

NOTE: The transmission oil temperature must be above 110°F (43°C).

With the vehicle at a stop, perform Neutral to Reverse shifts until the shift is smooth. An unlearned Neutral to Reverse shift may be harsh or exhibit a double bump.

If any of the shifts are still not smooth after the clutch volume stabilizes, an internal transmission problem may be present.

LEARN A SMOOTH 5-6 UPSHIFT

NOTE: The transmission oil temperature must be above 110°F (43°C).

Use the following steps to have the TCM learn the Alt 2C CVI.

Accelerate the vehicle through 88 km/h (55mph) at a steady 10-15 degree throttle opening and perform multiple 5-6 upshifts.

Repeat 1 until the 5-6 shift become smooth and the Alt 2C CVI become stable. There is a separate 2C volume used and learned for 5-6 shifts, 2CA. It is independent of the 2C CVI learned on 3-2 kickdowns.

Troubleshooting

Truck sets a P0868 Low Line Pressure fault code

Code present at idle

- Indicates a pressure module issue or connection issue
- Temporarily remove BD pressure box, clear code and retest to confirm if it is a
 pressure box issue. With the BD module removed the truck should run stock
 pressures.

Code present at WOT

- Possible connector issue or module issue
- If no problems found with connector, attach mechanical gauge and compare pressure on scan tool to mechanical gauge at WOT. If pressure is below 230psi it is likely there is an issue with the transmission cooler causing reduced flow. If replacing the cooler does not remedy this, contact BD as there is a different program you can run in the module (Blue key).

Transmission Cooler Check

Disconnect cooler line and verify cooler flow rate. At idle it should be a minimum of 1.5GPM. You can use a clean bucket to drain into for this test. If it does not meet the requirement you will need to replace your cooler and check valve assembly.