

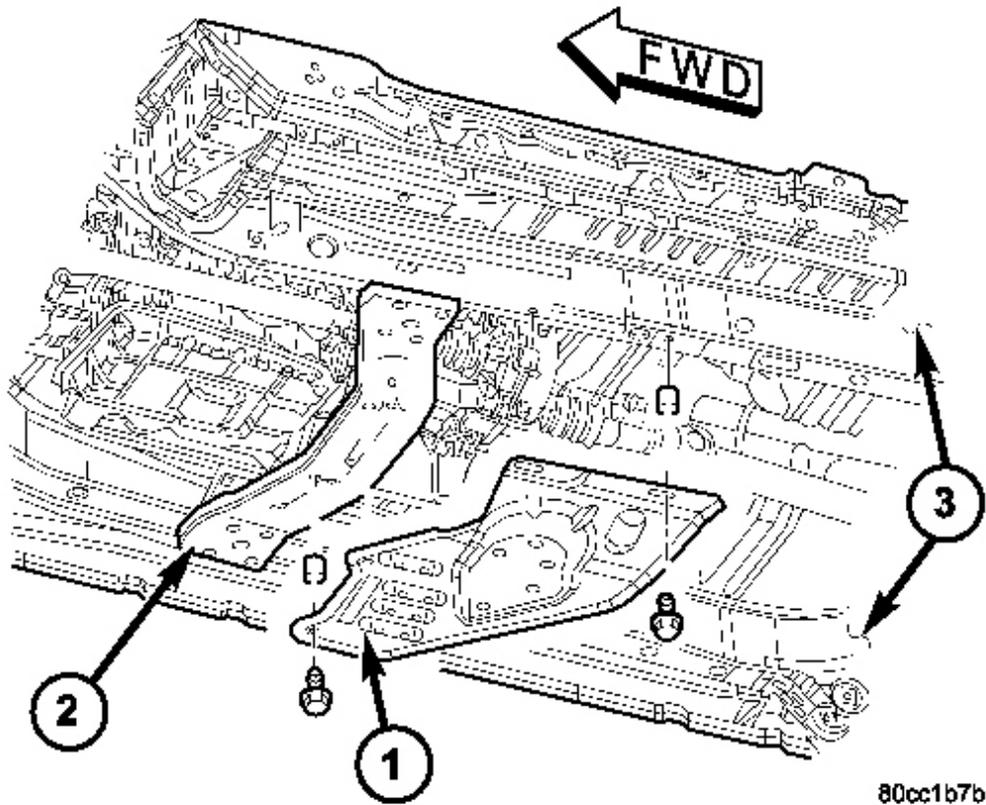
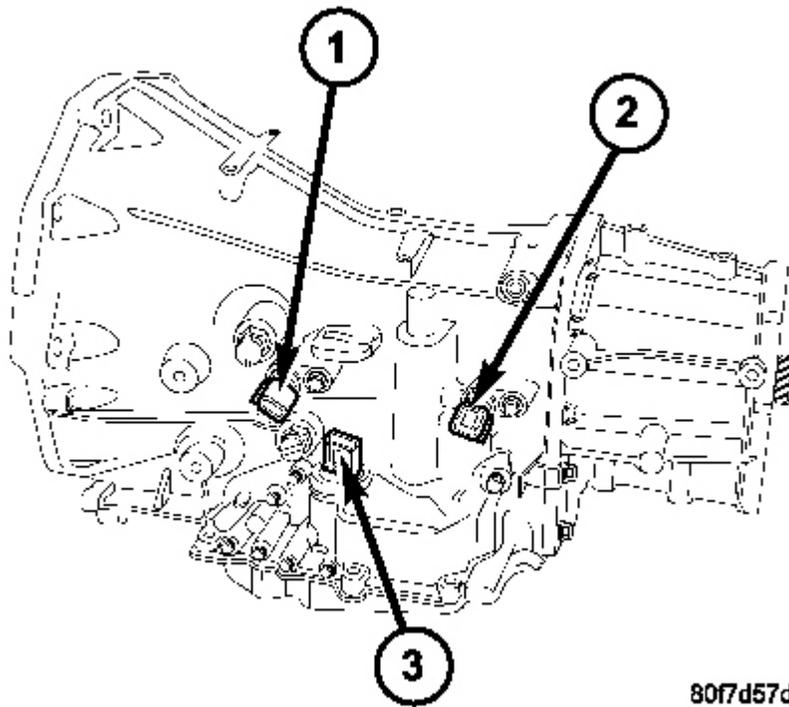
REMOVAL**AUTOMATIC TRANSMISSION**

Fig. 13: Identifying Skid plate, Transmission Crossmember & Frame Rails
Courtesy of CHRYSLER LLC

- | |
|---|
| 1 - SKID PLATE
2 - TRANSMISSION CROSSMEMBER
3 - FRAME RAILS |
|---|

1. Disconnect the negative battery cable.
2. Raise and support the vehicle
3. Remove any necessary skid plates (1). See **Fig. 13**. Refer to **REMOVAL**.

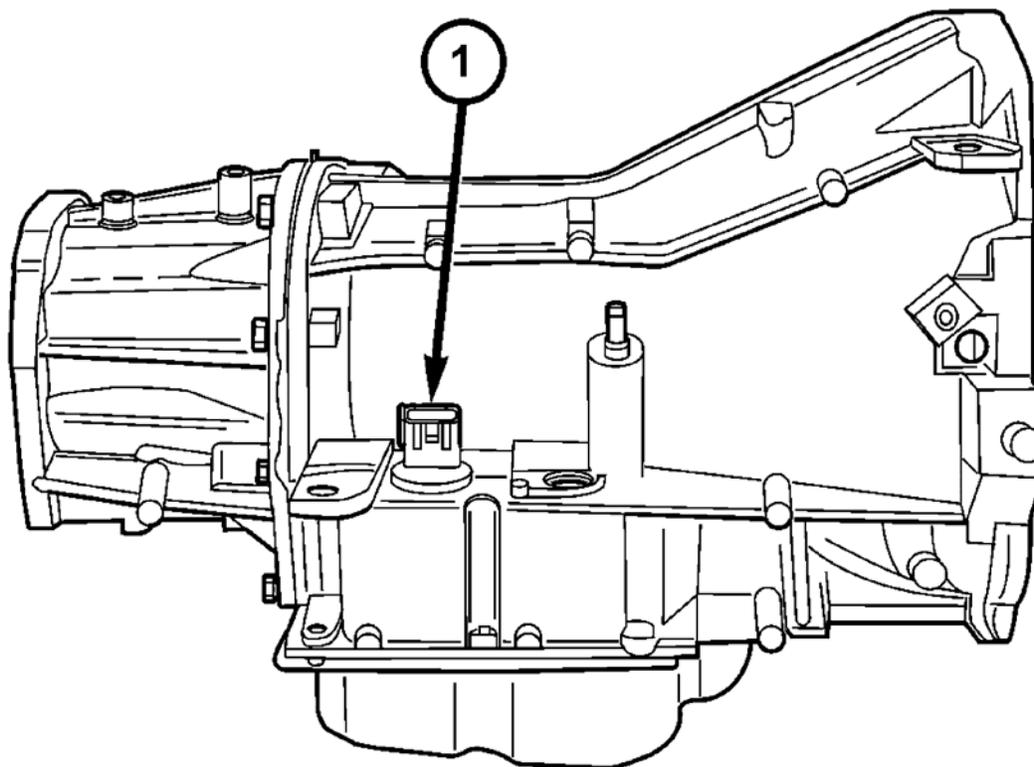


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Fig. 14: Locating Input Speed, Output Speed and Transmission Range Sensors
Courtesy of CHRYSLER LLC

- | |
|--|
| 1 - INPUT SPEED SENSOR
2 - OUTPUT SPEED SENSOR
3 - TRANSMISSION RANGE SENSOR |
|--|

4. Mark propeller shaft and axle companion flanges for assembly alignment.
5. Remove the rear propeller shaft. Refer to **REMOVAL** .
6. Remove the front propeller shaft, if necessary. Refer to **REMOVAL** .
7. Disconnect wires from the input and output speed sensors (1, 2).
8. Disconnect wires from the transmission range sensor (3).
9. Disconnect wires from the Variable Line Pressure (VLP) electrical connector.

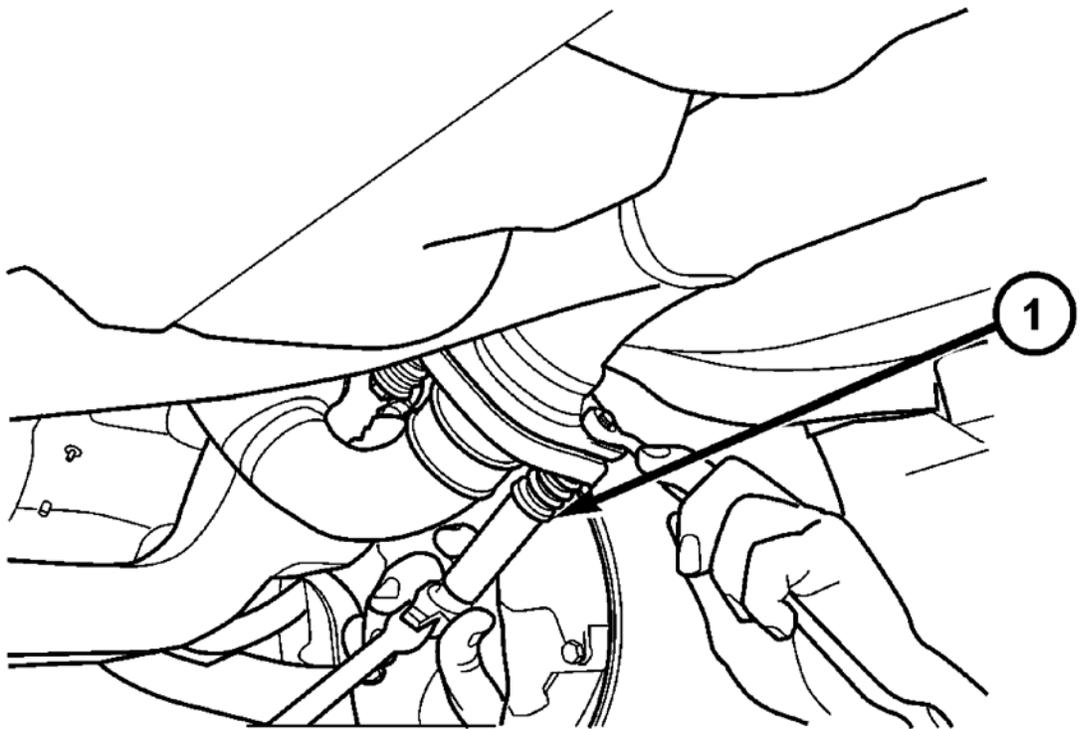


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Fig. 15: Identifying Solenoid/Pressure Switch Assembly
Courtesy of CHRYSLER LLC

1 - SOLENOID/PRESSURE SWITCH ASSEMBLY
CONNECTOR

10. Disconnect wires from the solenoid/pressure switch assembly (1). See **Fig. 15**.

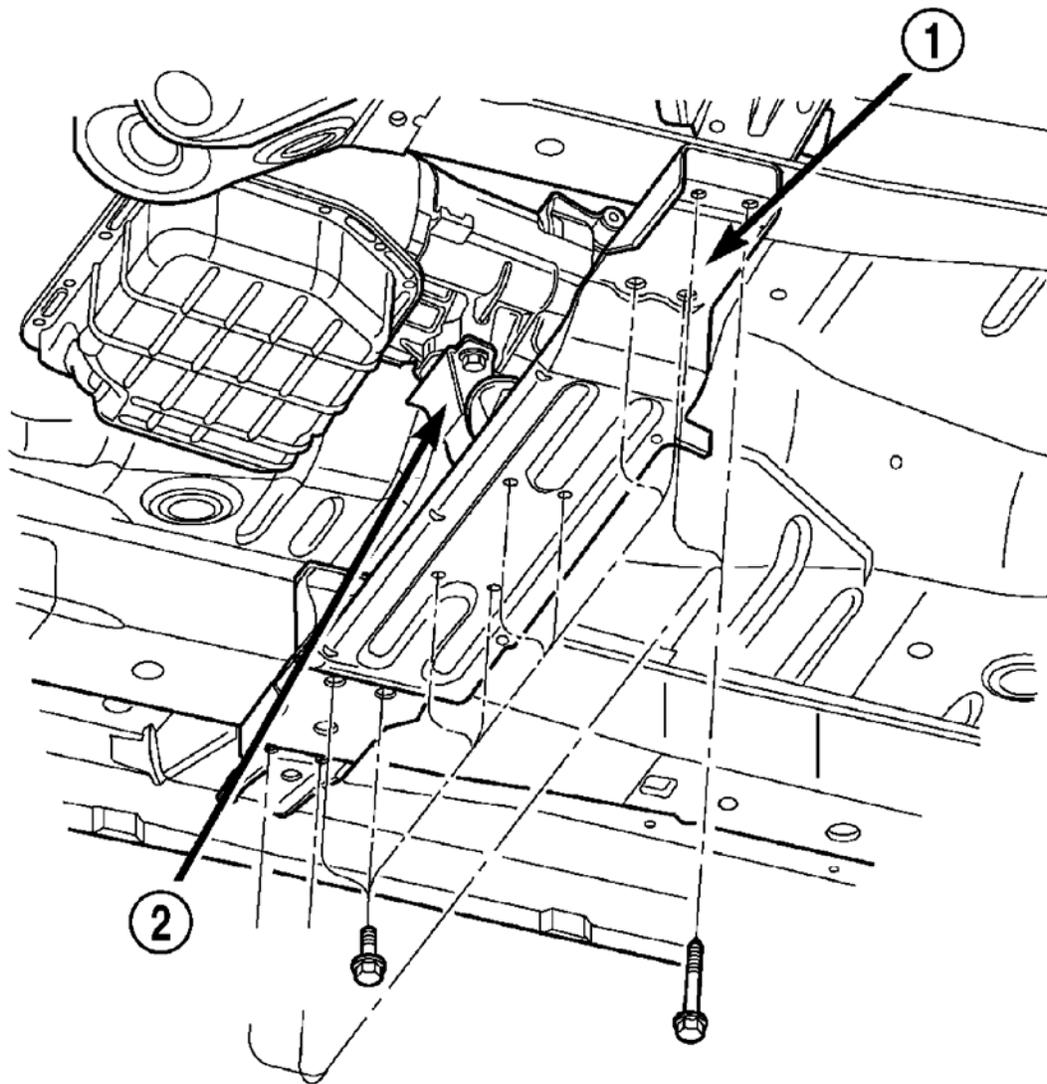


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Fig. 16: Removing/Installing Exhaust Flange Bolts
Courtesy of CHRYSLER LLC

1 - EXHAUST FLANGE BOLTS

11. Remove the bolts (1) holding the exhaust crossover pipe to the pre-catalytic converter pipe flanges. See **Fig. 16**.
12. Remove the bolts holding the exhaust crossover pipe to the catalytic converter flange.



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Fig. 17: Rear Transmission Mount & Crossmember
Courtesy of CHRYSLER LLC

1 - CROSSMEMBER
2 - REAR TRANSMISSION MOUNT

13. Disconnect gearshift cable from transmission manual valve lever.
14. Disengage the shift cable from the cable support bracket.
15. Remove the starter motor.
16. Remove the engine to transmission collar.
17. Rotate crankshaft in clockwise direction until converter bolts are accessible. Then remove bolts one at a time. Rotate crankshaft with socket wrench on dampener bolt.

2007 Dodge Nitro R/T

2007 AUTOMATIC TRANSMISSION 42RLE - Service Information - Nitro

18. Disconnect the transmission vent hose from the transmission.
19. Remove transfer case.
20. Support rear of engine with safety stand or jack.
21. Raise transmission slightly with service jack to relieve load on crossmember and supports.
22. Remove bolts securing rear support and cushion (2) to transmission and crossmember (1). See **Fig. 17**.
23. Remove bolts attaching crossmember to frame and remove crossmember.
24. Disconnect transmission fluid cooler lines at transmission fittings and clips.
25. Remove all remaining converter housing bolts.
26. Carefully work transmission and torque converter assembly rearward off engine block dowels.
27. Hold torque converter in place during transmission removal.
28. Lower transmission and remove assembly from under the vehicle.
29. To remove torque converter, carefully slide torque converter out of the transmission.