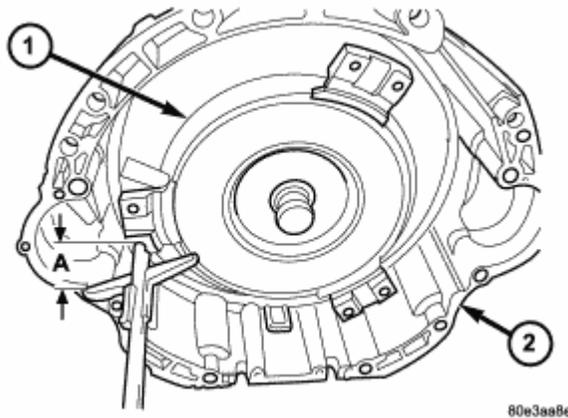


## INSTALLATION

### AUTOMATIC TRANSMISSION



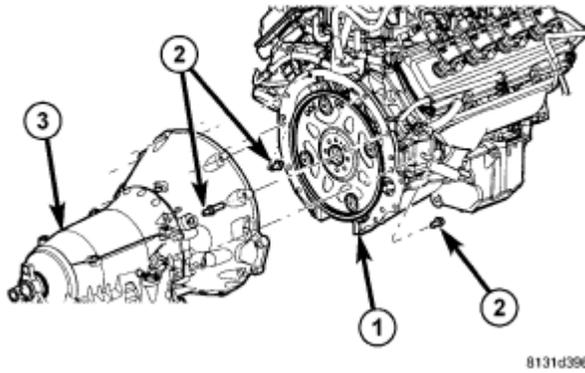
**Fig. 64: Installing Torque Converter In Transmission Housing**  
 Courtesy of CHRYSLER LLC

- |  |
|--|
| 1 - TORQUE CONVERTER<br>2 - TRANSMISSION HOUSING |
|--|

1. Check torque converter hub and hub drive flats for sharp edges burrs, scratches, or nicks. Polish the hub and flats with 320/400 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.
2. If a replacement transmission is being installed, transfer any components necessary, such as the manual shift lever and shift cable bracket, from the original transmission onto the replacement transmission.
3. Lubricate oil pump seal lip with transmission fluid.
4. Align converter and oil pump.
5. Carefully insert converter in oil pump. Then rotate converter back and forth until fully seated in pump gears.
6. Check converter seating with a scale and straightedge (A). Surface of converter lugs should be at least 19 mm (3/4 in.) to rear of straightedge when converter is fully seated.
7. Temporarily secure converter with C-clamp.
8. Position transmission on jack and secure it with chains.
9. Check condition of converter flexplate. Replace the plate if cracked, distorted or damaged. **Also be sure transmission dowel pins are seated in engine block and protrude far enough to hold transmission in alignment.**
10. Apply a light coating of MOPAR® High Temp Grease to the torque converter hub pocket in the rear pocket of the engine's crankshaft.
11. Raise transmission and align the torque converter with the flex plate and transmission converter housing with the engine block.
12. Move transmission forward. Then raise, lower or tilt transmission to align the converter housing with

engine block dowels.

13. 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.

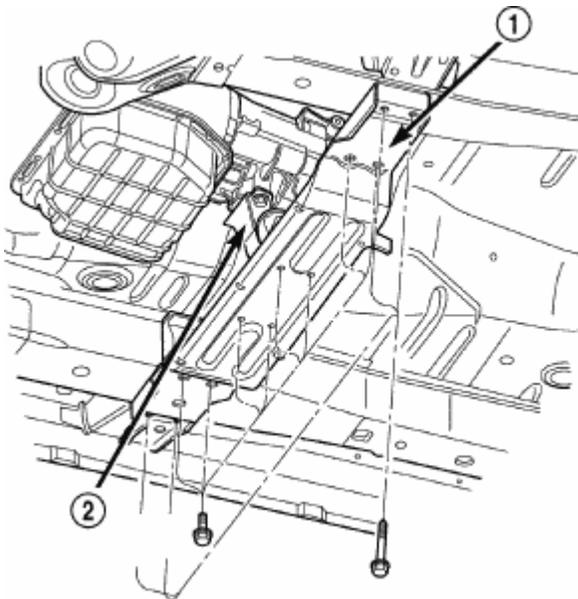


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**Fig. 65: Installing Bolts To Attach Transmission To Engine**  
Courtesy of CHRYSLER LLC

1 - ENGINE 2 - BOLTS 3 - TRANSMISSION
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14. Install two bolts (2) to attach the transmission to the engine.
15. Install remaining torque converter housing to engine bolts. Tighten to 39 N.m (29 ft.lbs.).
16. Install transfer case (if equipped).

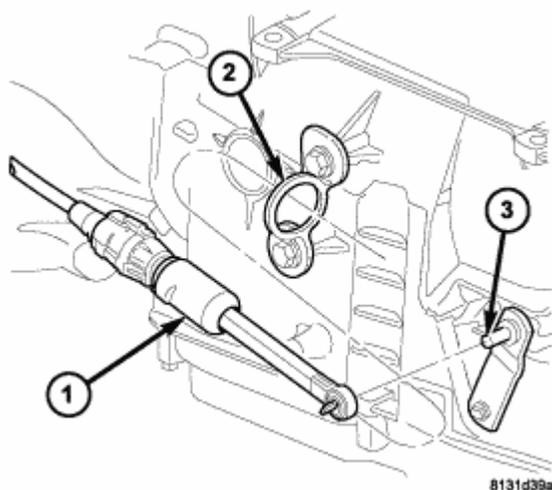


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**Fig. 66: Installing Bolts Attaching Transmission Mount To Crossmember**  
Courtesy of CHRYSLER LLC

1 - CROSSMEMBER  
2 - REAR TRANSMISSION MOUNT

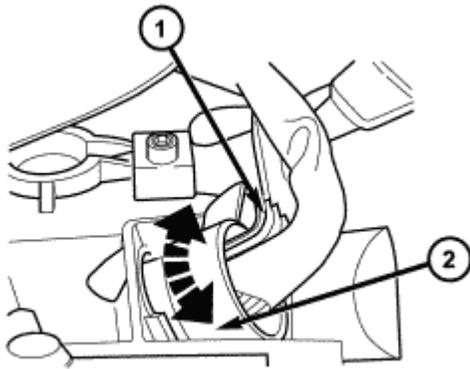
17. Install rear support to transmission. Tighten bolts to 47 N.m (35 ft.lbs.).
18. Lower transmission onto crossmember and install bolts attaching transmission mount to crossmember. Tighten clevis bracket to crossmember bolts to 47 N.m (35 ft.lbs.). Tighten the clevis bracket to rear support bolt to 68 N.m (50 ft.lbs.).
19. Remove safety stand or jack from under engine and transmission.
20. Install the flex plate bolts. Tighten the flex plate bolts to 42 N.m (31ft.lbs.)
21. Install flex plate bolt access cover.
22. Install the starter motor. Refer to **INSTALLATION** .



**Fig. 67: Connecting Gearshift Cable To Support Bracket And Transmission Manual Lever**  
Courtesy of CHRYSLER LLC

1 - GEARSHIFT CABLE  
2 - GEARSHIFT CABLE BRACKET  
3 - MANUAL SHIFT LEVER

23. Connect gearshift cable (1) to support bracket (2) and transmission manual lever (3).
24. Adjust gearshift cable if necessary.
25. Install all breather hoses.

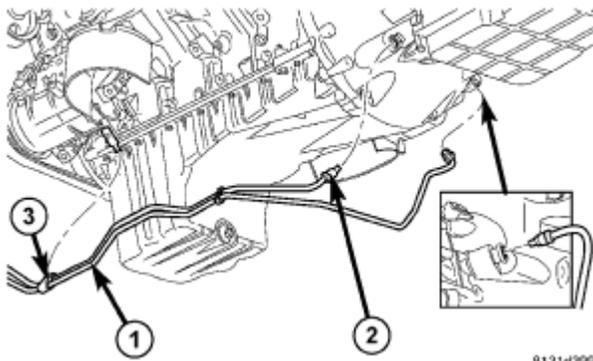


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**Fig. 68: Installing 13-Pin Plug Connector & Turning Bayonet Lock Of Adapter Plug**  
Courtesy of CHRYSLER LLC

- 1 - PLUG CONNECTOR
- 2 - ADAPTER PLUG

26. Install 13-pin plug connector (1). Turn bayonet lock of the adapter plug (2)
27. Install the heat shield from the 13-pin connector.
28. Install 13-pin plug connector heat shield and bolts. Tighten bolts to 10 N.m (88 in.lbs.)

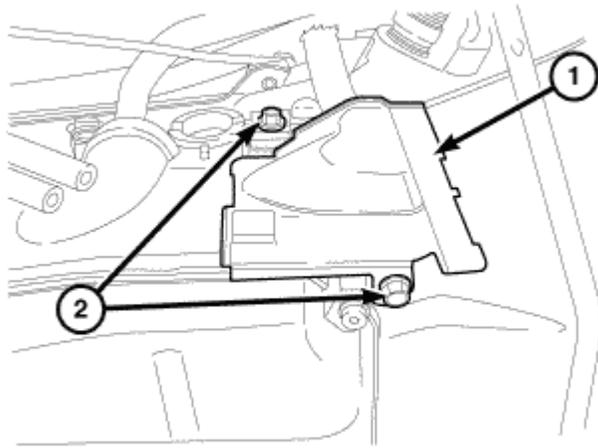


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**Fig. 69: Connecting Cooler Lines Into Transmission**  
Courtesy of CHRYSLER LLC

- 1 - TRANSMISSION OIL COOLER LINES
- 2 - COOLER LINE FITTINGS
- 3 - SUPPORT CLAMPS

29. Connect cooler lines (2) into transmission.



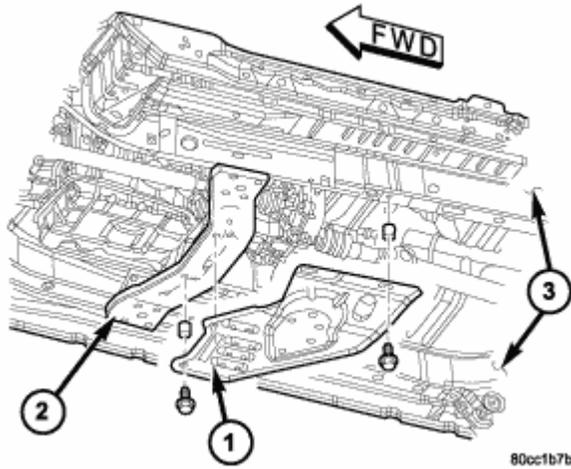
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**Fig. 70: Installing Transmission Fill Tube Heat Shield And Bolts**  
Courtesy of CHRYSLER LLC

1 - FILL TUBE HEAT SHIELD  
2 - FILL TUBE COVER BOLTS

**NOTE:** Inspect the fill tube grommet to determine if the grommet is new or used. If a new fill tube grommet is in the transmission case, pierce the center of the grommet with a ballpoint pen, or similar instrument, to prepare the grommet for the fill tube installation.

30. Install transmission fill tube and bolt. Tighten bolts to 10 N.m (88 in.lbs.)
31. Install transmission fill tube heat (1) shield and bolts (2). Tighten bolts to 10 N.m (88 in.lbs.)
32. Align and connect rear propeller shaft. Refer to **INSTALLATION** .
33. Align and install front propeller shaft (if equipped). Refer to **INSTALLATION** .
34. Lower vehicle.
35. Install transmission filler tube bolt at valve cover.
36. Install catalytic converter onto turbocharger. Refer to **INSTALLATION** .
37. Raise vehicle.
38. Install catalytic converter to engine block bolts. Refer to **INSTALLATION** .
39. Install particulate filter pipe. Refer to **INSTALLATION** .



**Fig. 71: Skid Plate, Transmission Crossmember & Frame Rails**  
Courtesy of CHRYSLER LLC

- |   |
|---|
| 1 - SKID PLATE<br>2 - TRANSMISSION CROSSMEMBER<br>3 - FRAME RAILS |
|---|

40. Install any skid plates removed previously (1). Refer to **INSTALLATION** .
41. Lower vehicle.
42. Connect the negative battery cable.
43. Fill transmission with Mopar® ATF +4, Automatic Transmission Fluid.

**NOTE:** If the transmission is being reconditioned (clutch/seal replacement) or replaced, it is necessary to perform the TCM Adaptation Procedure using the scan tool.

44. Verify proper operation.