

Fig. 278: Locating Bracket For Starter Wire Harness & Transmission Oil Cooler Pipes
Courtesy of GENERAL MOTORS CORP.

9. Remove the stud holding the bracket for the starter wire harness and if equipped, the transmission oil cooler pipes.

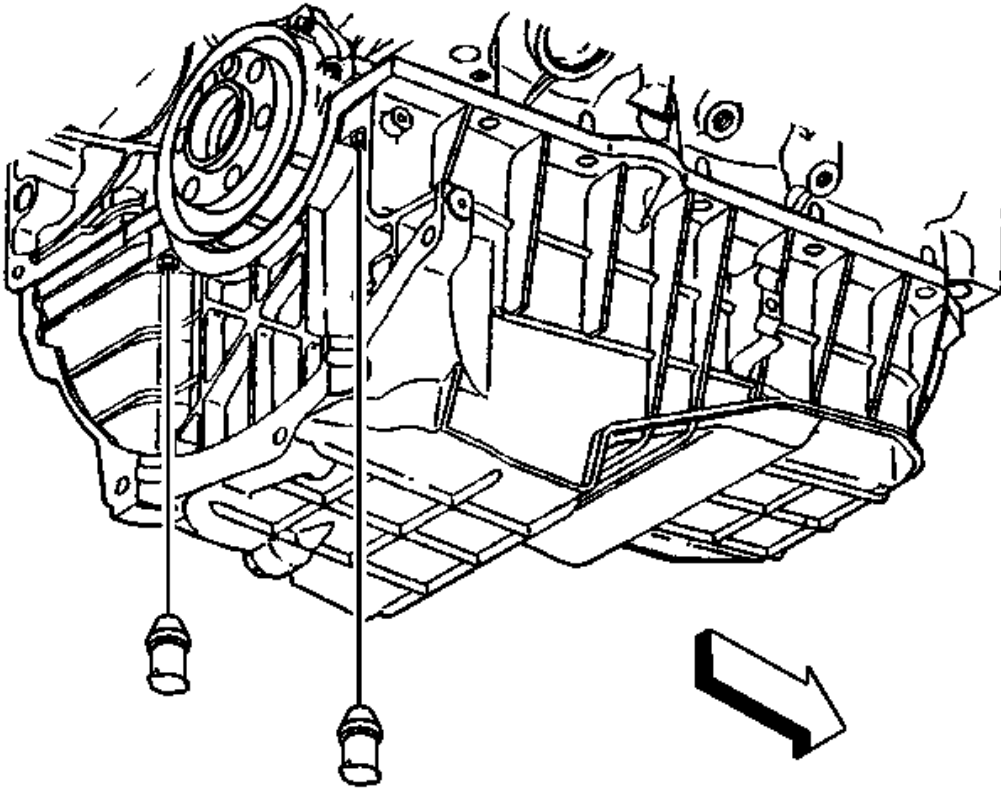


Fig. 279: Expanded View Of Oil Pan Rear Nuts Access Plugs
Courtesy of GENERAL MOTORS CORP.

10. Remove the access plugs for the oil pan rear nuts.

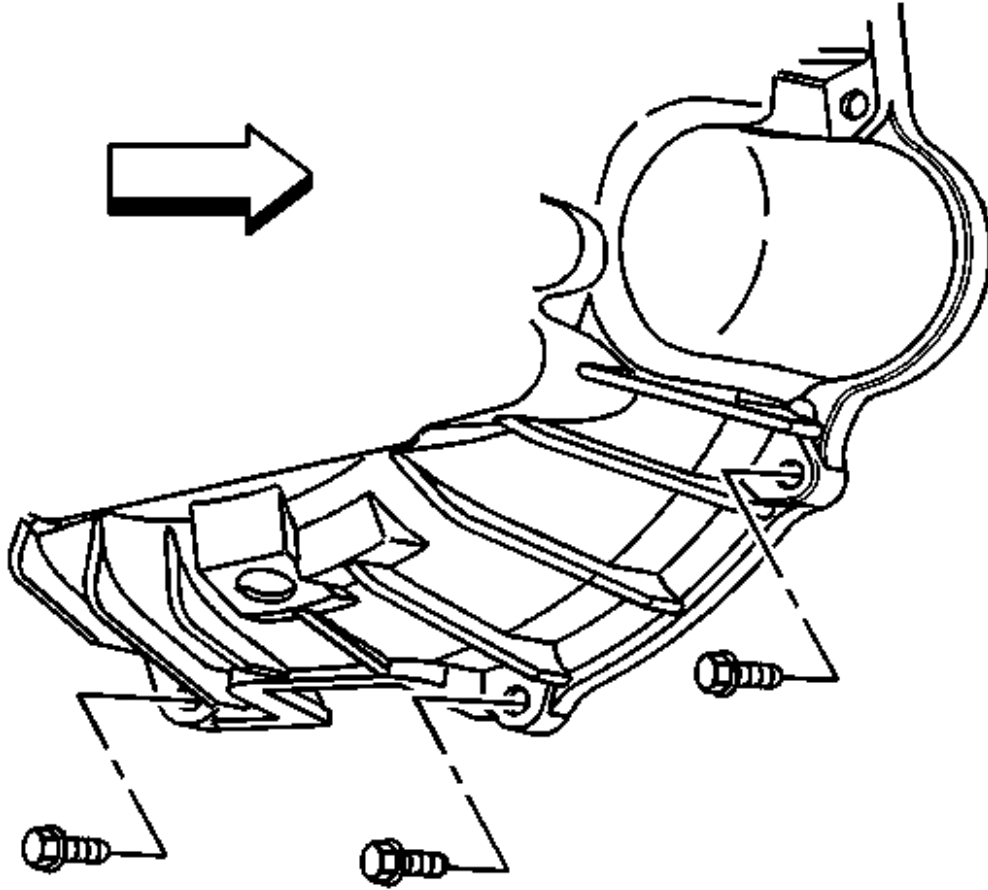


Fig. 280: Identifying Transmission To Oil Pan Bolts
Courtesy of GENERAL MOTORS CORP.

11. Remove the transmission to oil pan bolts (automatic transmission shown).

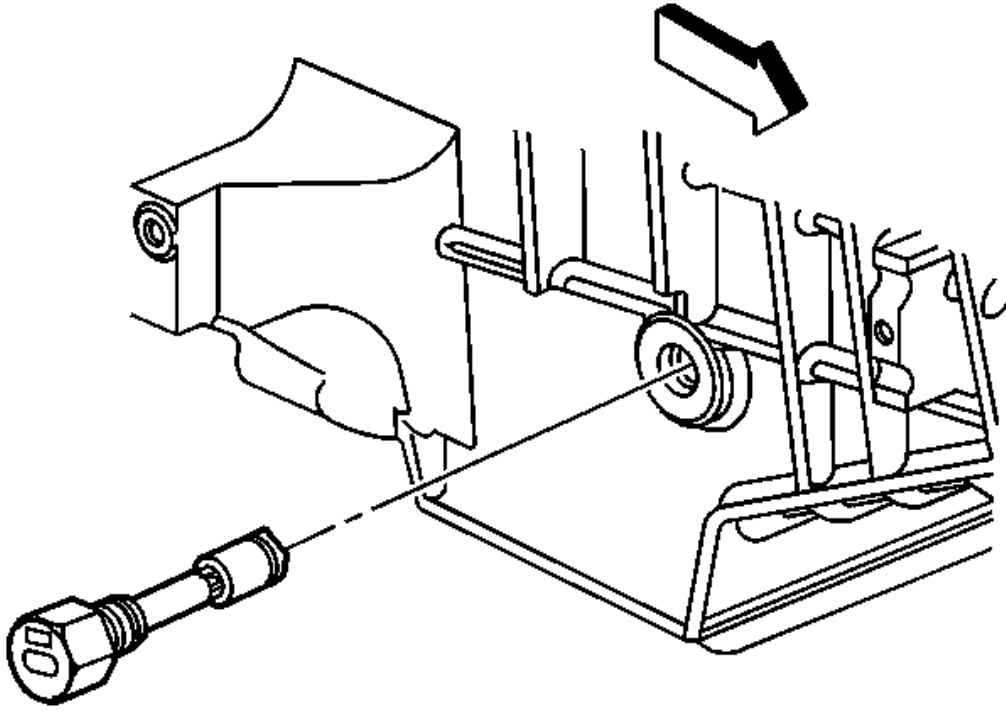


Fig. 281: Removing Oil Level Sensor
Courtesy of GENERAL MOTORS CORP.

IMPORTANT: The low oil level sensor is not reusable. Use a NEW low oil sensor.

12. Remove and discard the engine oil level sensor (if applicable).

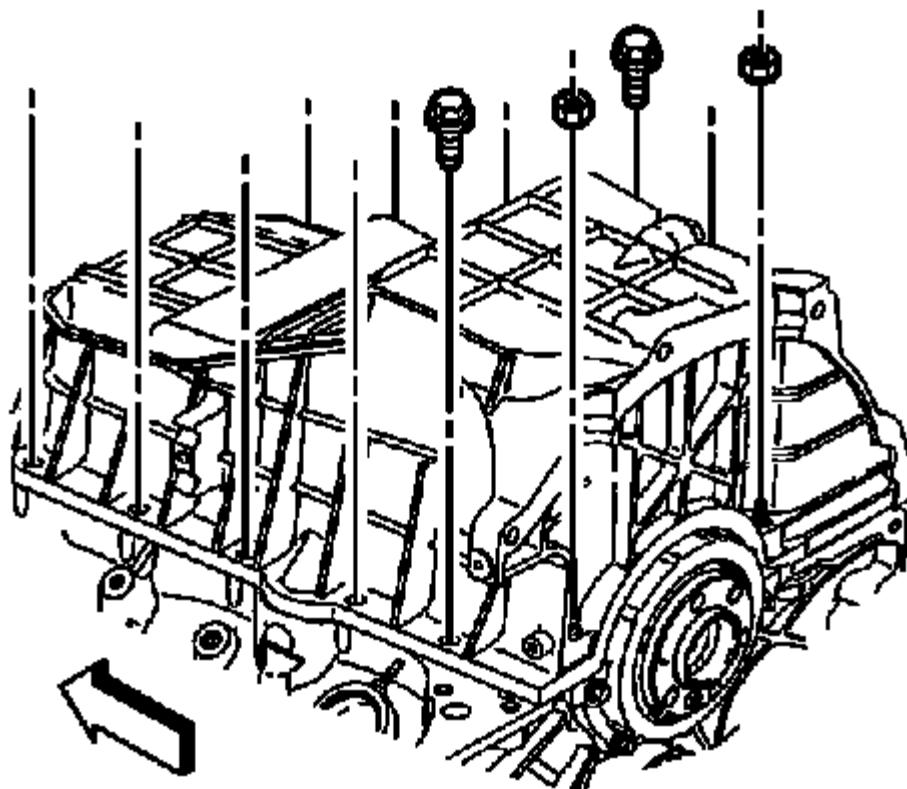


Fig. 282: Removing Oil Pan Bolts & Nuts
Courtesy of GENERAL MOTORS CORP.

13. Remove the oil pan bolts and nuts.

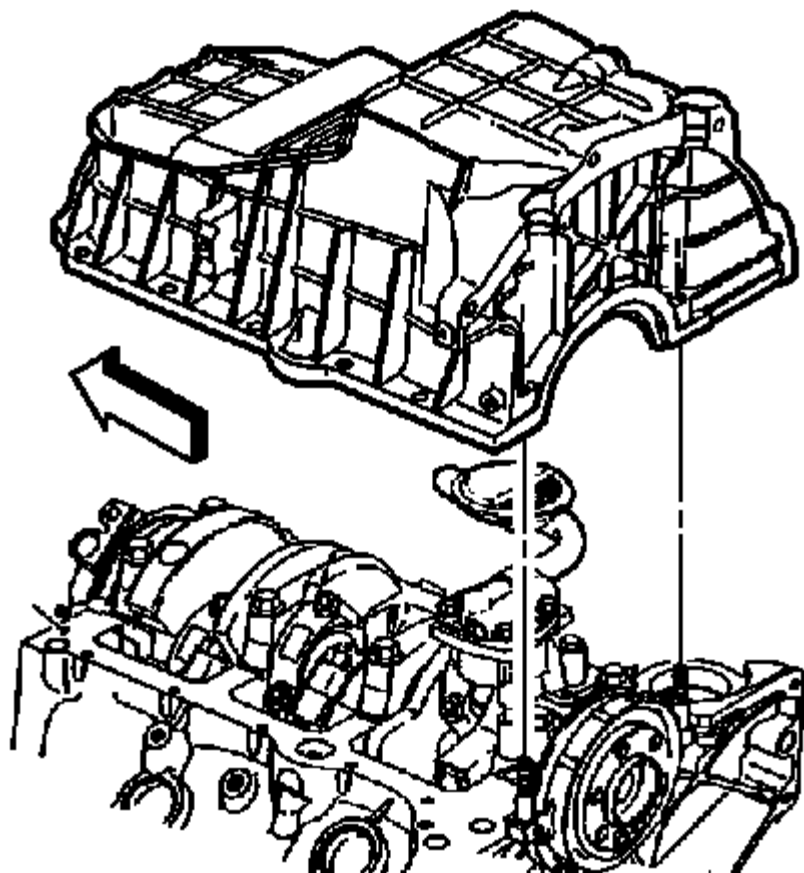


Fig. 283: Removing Oil Pan
Courtesy of GENERAL MOTORS CORP.

14. Remove the oil pan.

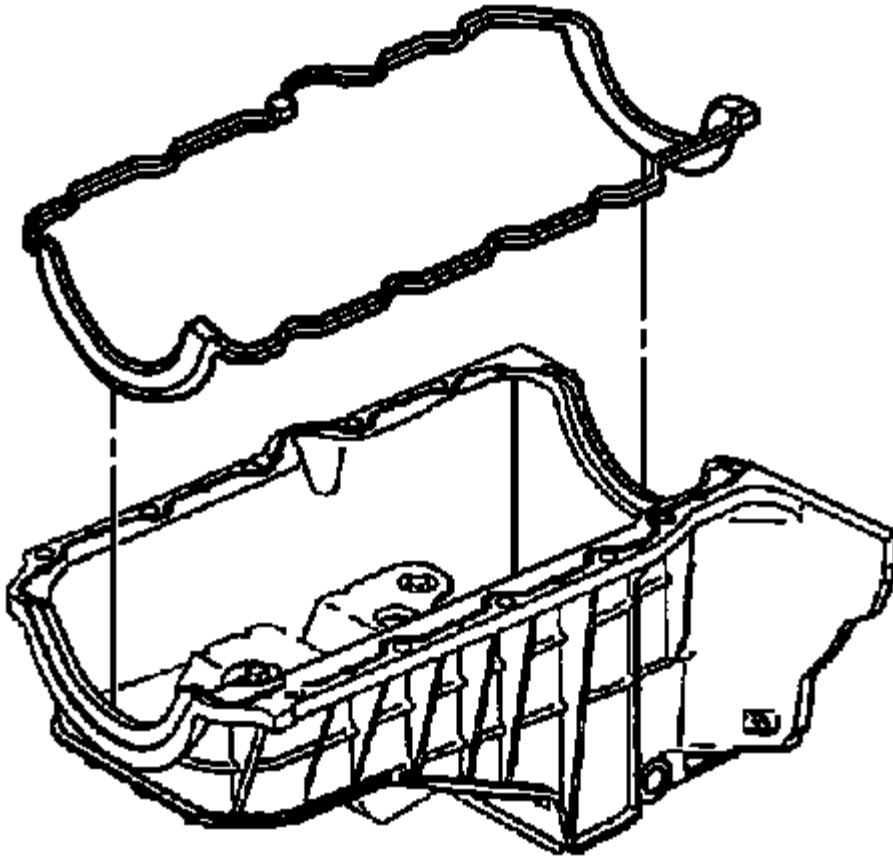


Fig. 284: View Of Oil Pan Gasket
Courtesy of GENERAL MOTORS CORP.

15. Remove the oil pan gasket.
16. Discard the oil pan gasket.
17. Clean all sealing surfaces on the engine and the oil pan. Refer to **Oil Pan Cleaning and Inspection** in Engine Mechanical - 4.3L Unit Repair.

Installation Procedure

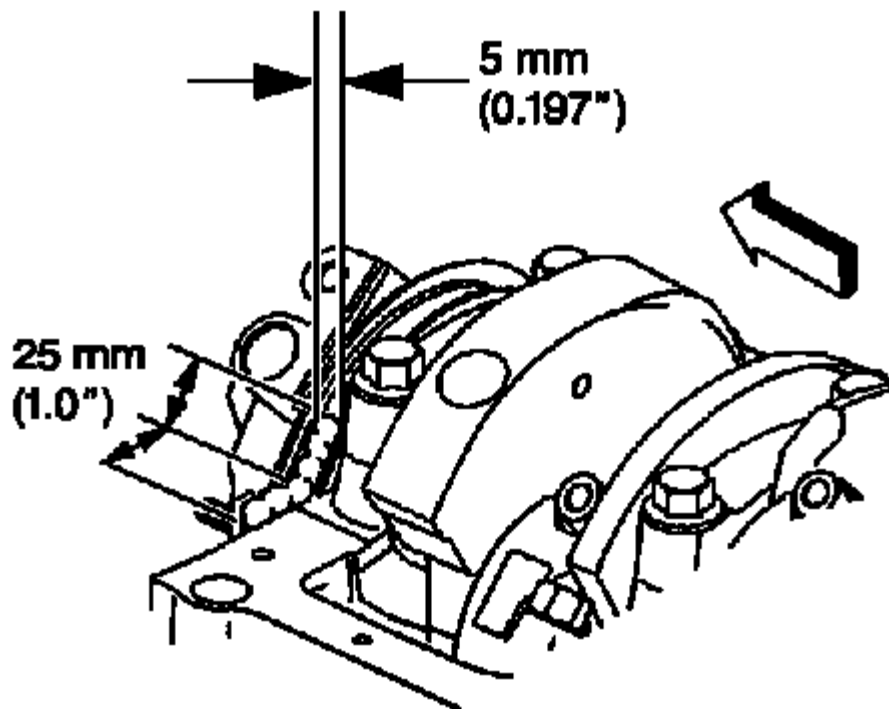


Fig. 285: Applying Adhesive To Engine Sides Front Cover To Engine Block Junction
Courtesy of GENERAL MOTORS CORP.

NOTE: Any time the transmission and the engine oil pan are off of the engine at the same time, install the transmission before the oil pan. This is to allow for the proper oil pan alignment. Failure to achieve the correct oil pan alignment can result in transmission failure.

1. Apply a 5 mm (0.197 in) wide and 25 mm (1.0 in) long bead of adhesive GM P/N 12346141 or equivalent to both the right and left sides of the engine front cover to engine block junction at the oil pan sealing surfaces.

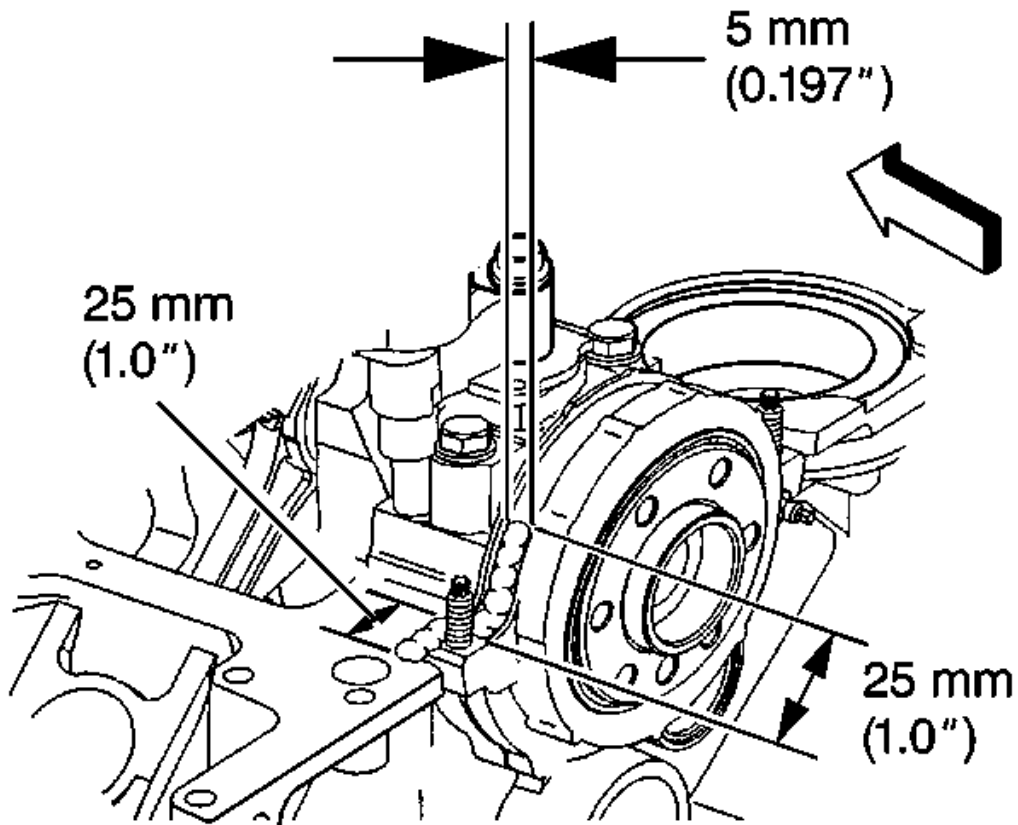


Fig. 286: Adhesive At Right & Left Sides Of Crankshaft Rear Oil Seal Housing
Courtesy of GENERAL MOTORS CORP.

2. Apply a 5 mm (0.197 in) wide and 25 mm (1.0 in) long bead of adhesive GM P/N 12346141 or equivalent to both the right and left sides of the crankshaft rear oil seal housing to engine block junction at the oil pan sealing surfaces.