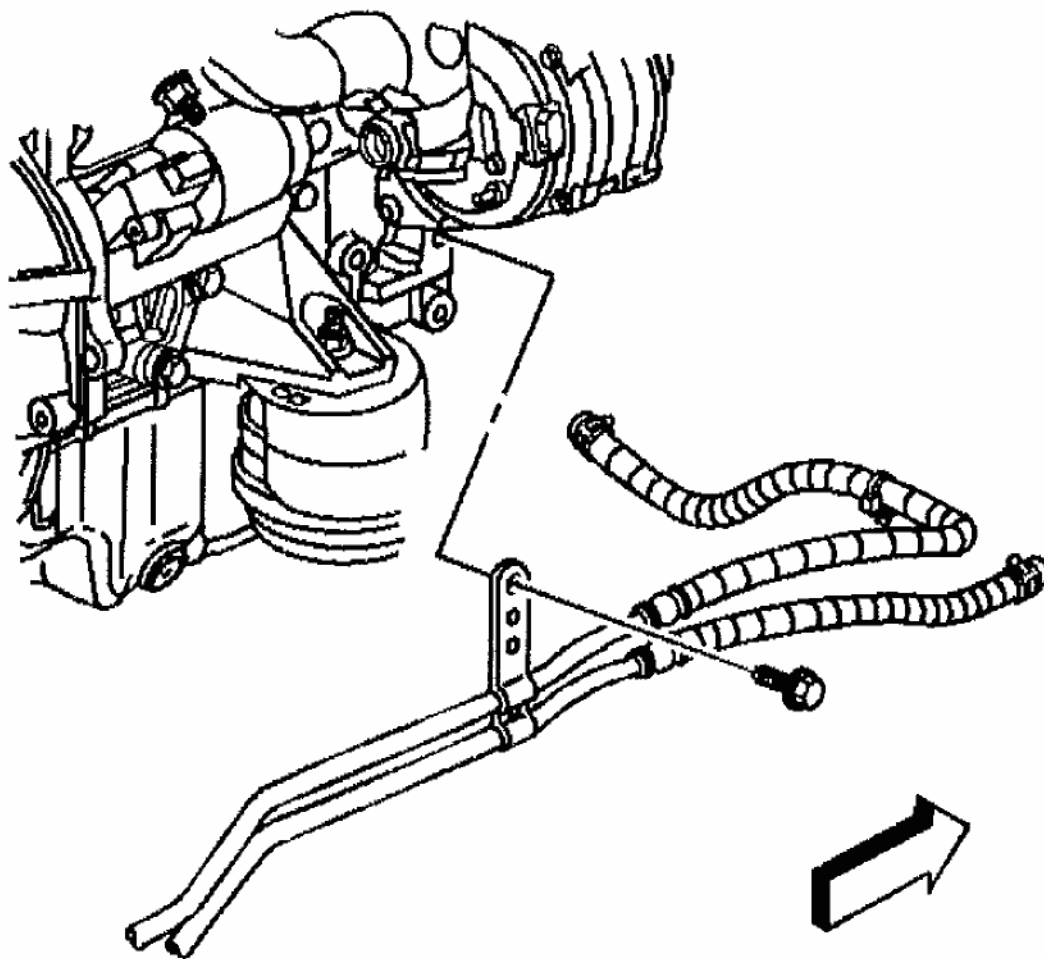


**OIL PAN REPLACEMENT****Removal Procedure**

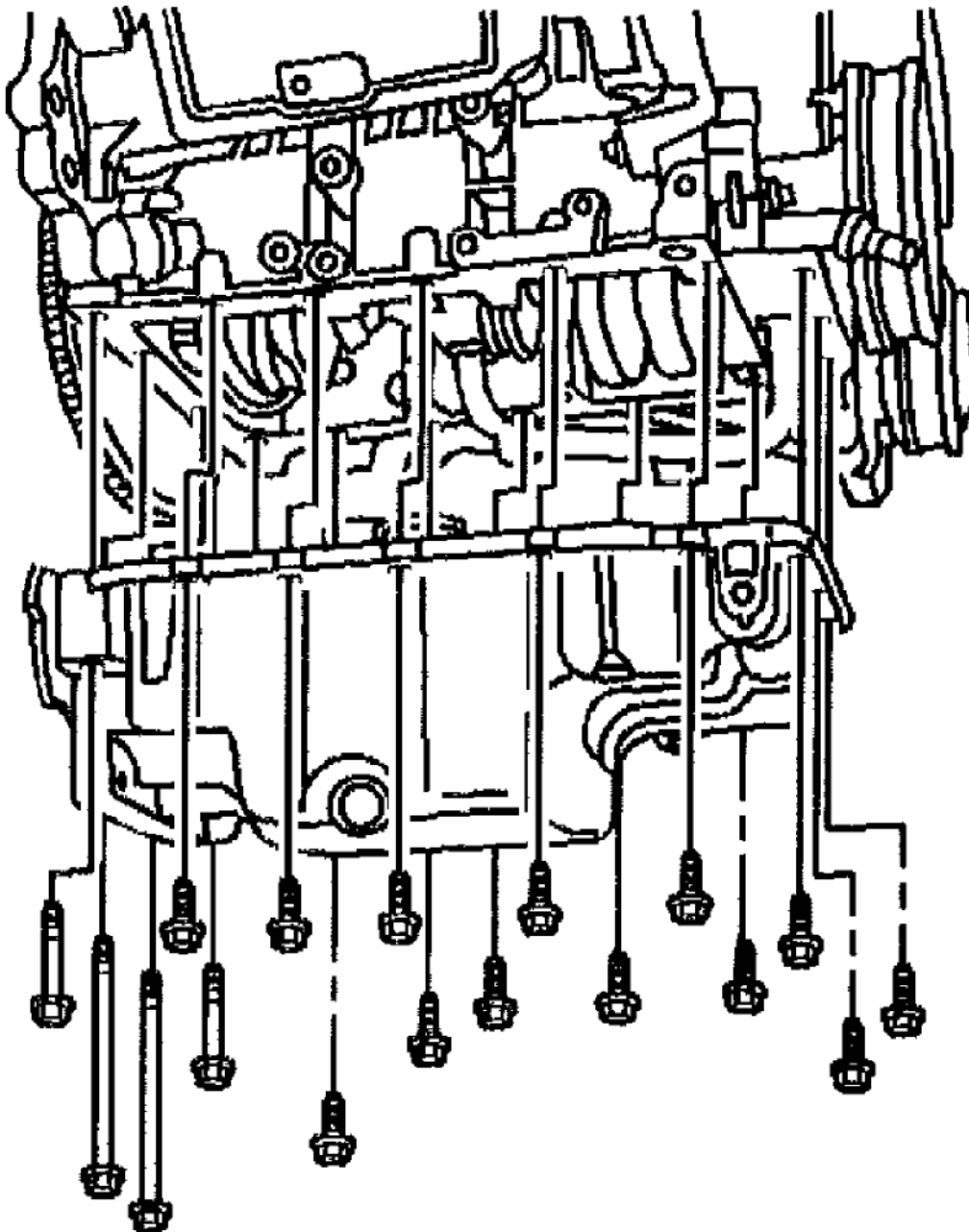
1. Drain the engine oil. Refer to **ENGINE OIL AND OIL FILTER REPLACEMENT**.
2. Remove the front frame. Refer to **FRAME REPLACEMENT - FRONT** in Frame and Underbody.
3. Remove the bolt securing transmission fluid cooler pipes brace to the engine.
4. Remove the 3 lower transmission mounting bolts.



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**Fig. 248: Removing Transmission Fluid Cooler Pipes Brace Bolt**  
Courtesy of GENERAL MOTORS CORP.

5. Remove the oil pan bolts.



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**Fig. 249: Removing Oil Pan Bolts**  
Courtesy of GENERAL MOTORS CORP.

6. Carefully pry the oil pan away from the engine block.

Remove the oil pan from the engine block.

7. Clean the cylinder block mating surfaces.
8. Clean and inspect the oil pan. Refer to **OIL PAN CLEANING AND INSPECTION**.

**Installation Procedure**

1. Apply a bead of silicone sealing compound, GM P/N 12346286 (Canadian P/N 10953472) or equivalent, to the oil pan mating surface.
2. Position the oil pan to the engine block.

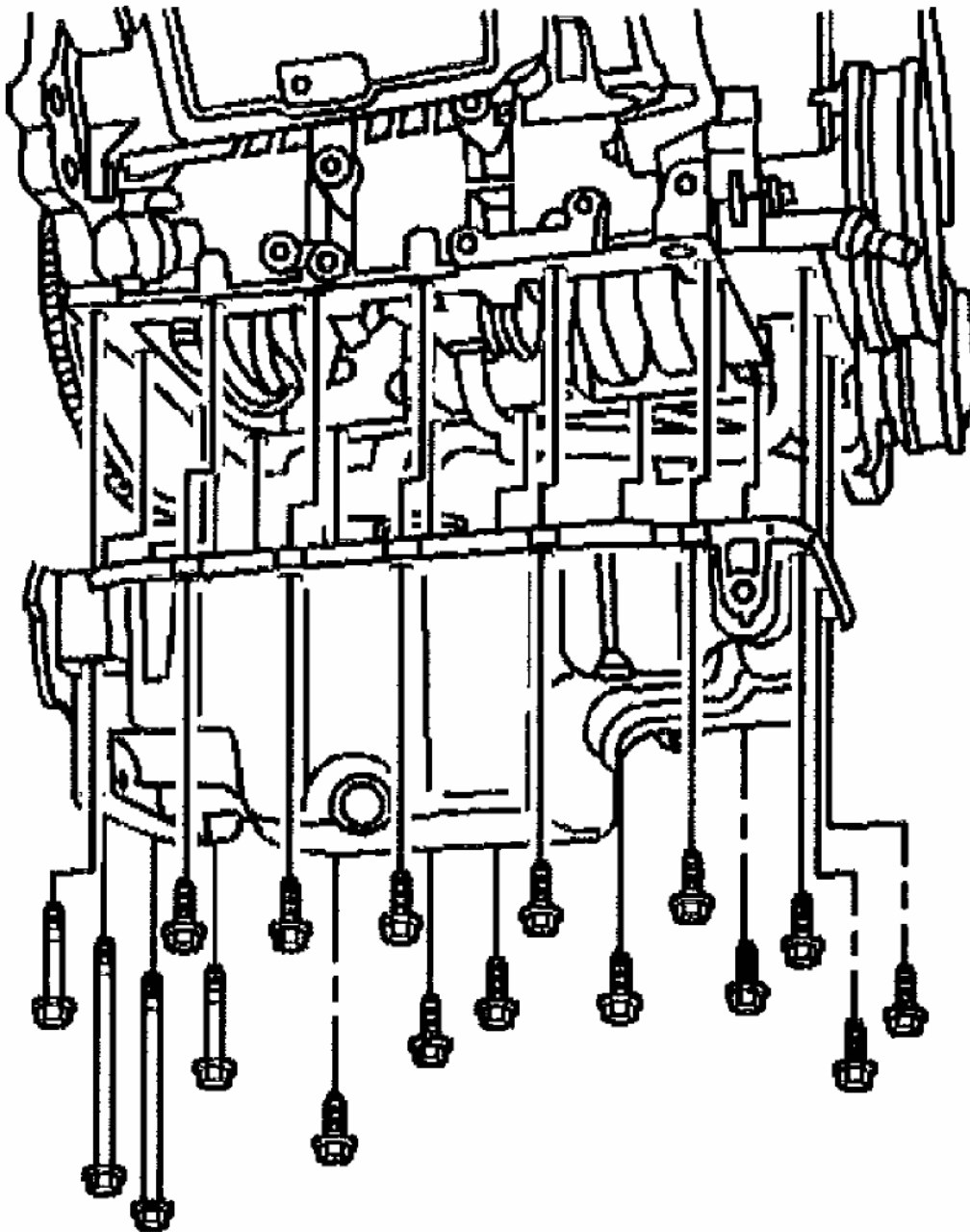
**NOTE:** Refer to **FASTENER NOTICE** in Cautions and Notices.

**Important:** Position the oil pan fully rearward while tightening.

3. Install the oil pan bolts.

**Tighten**

Tighten the oil pan bolts in sequence to 15 N.m (11 lb ft).



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**Fig. 250: Installing Oil Pan Bolts**  
Courtesy of GENERAL MOTORS CORP.

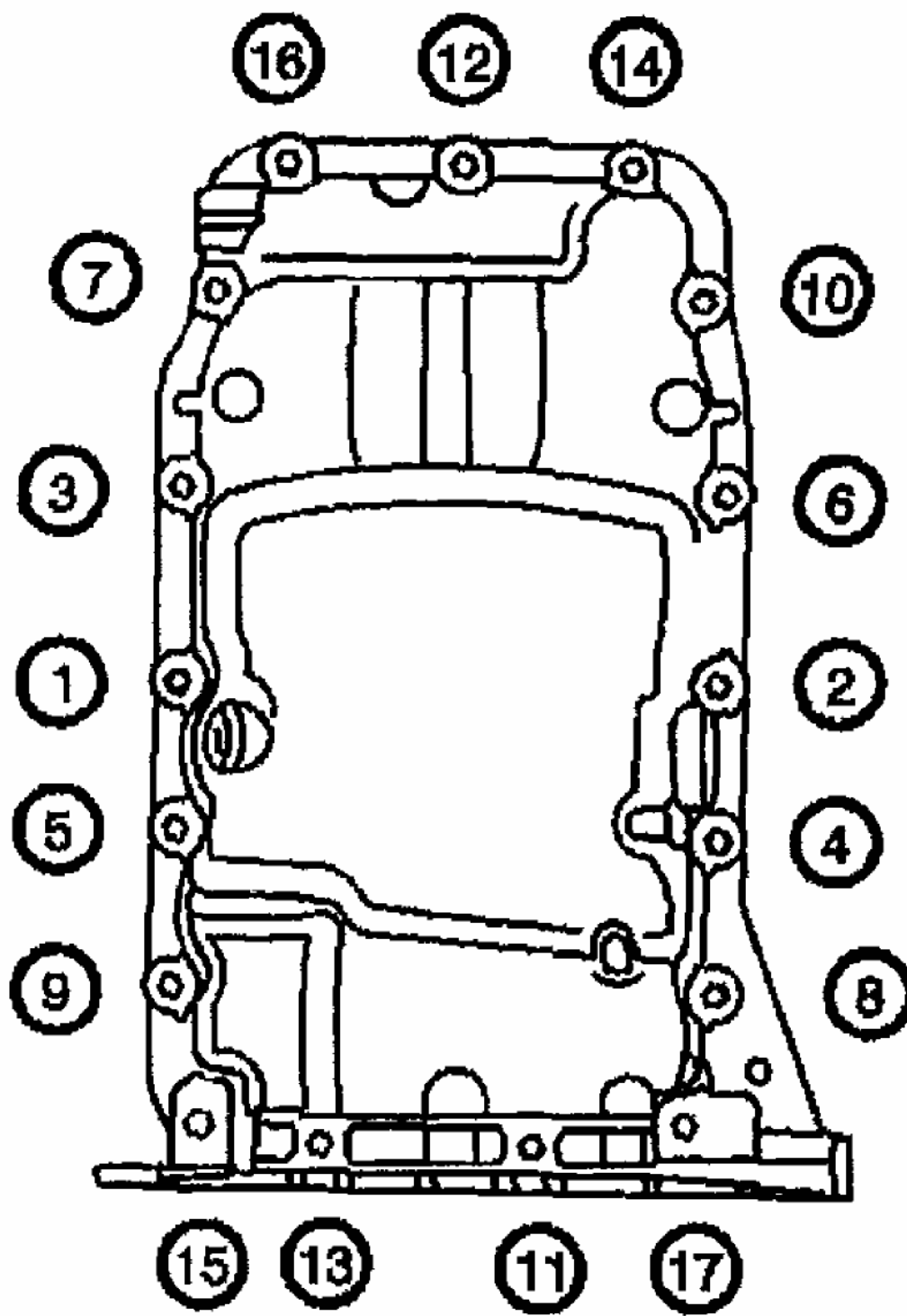
4. Install the 3 lower transmission mounting bolts.

**Tighten**

## 2003 Cadillac CTS

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Tighten the transmission mounting bolts to 50 N.m (37 lb ft).



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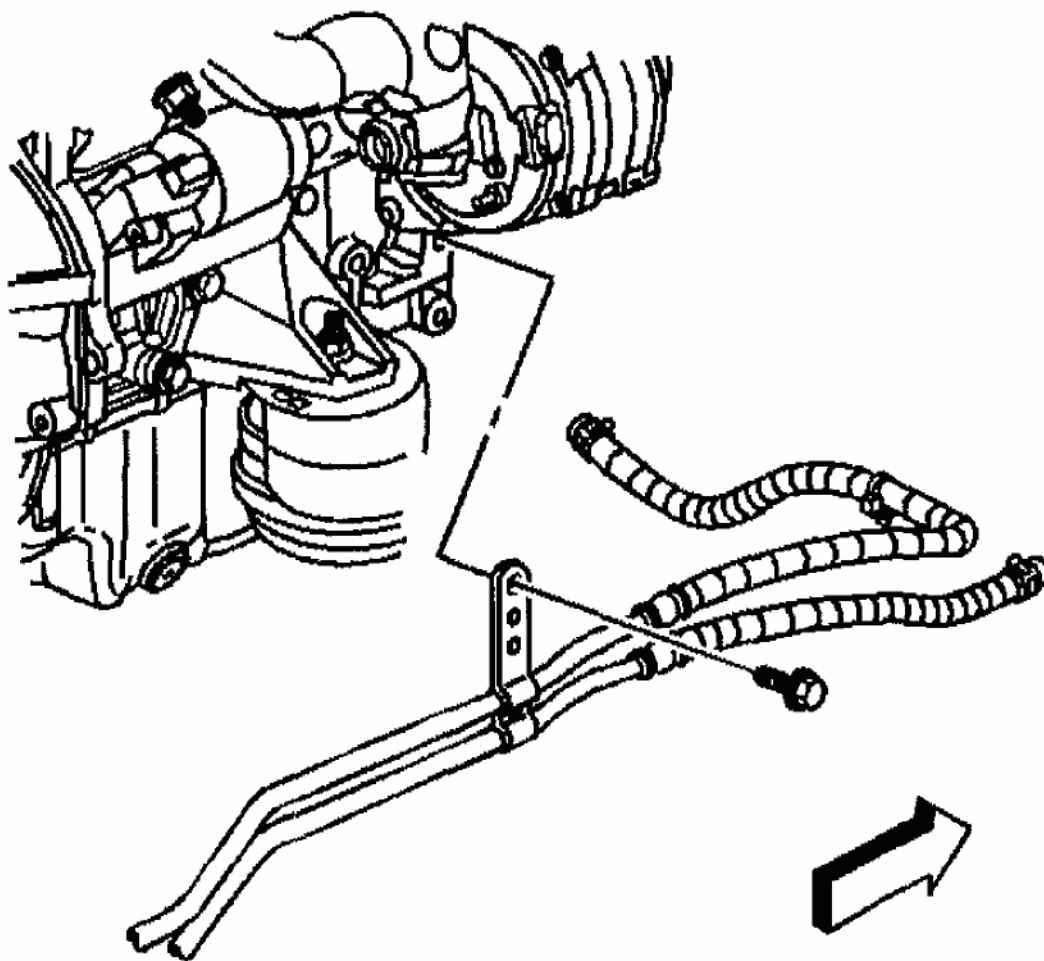
**Fig. 251: Identifying Oil Pan Bolt Tightening Sequence**

Courtesy of GENERAL MOTORS CORP.

5. Install the bolt securing transmission fluid cooler pipes brace to the engine.

### Tighten

Tighten the transmission fluid cooler pipes brace bolt to 25 N.m (18 lb ft).



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**Fig. 252: Installing Transmission Fluid Cooler Pipes Brace Bolt**  
Courtesy of GENERAL MOTORS CORP.

6. Install the front frame. Refer to **FRAME REPLACEMENT - FRONT** in Frame and Underbody.
7. Fill the engine oil. Refer to **ENGINE OIL AND OIL FILTER REPLACEMENT**.
8. Inspect for oil leaks after engine start up.

## 2003 Cadillac CTS

2003 ENGINE Engine Mechanical - 2.6L & 3.2L - CTS