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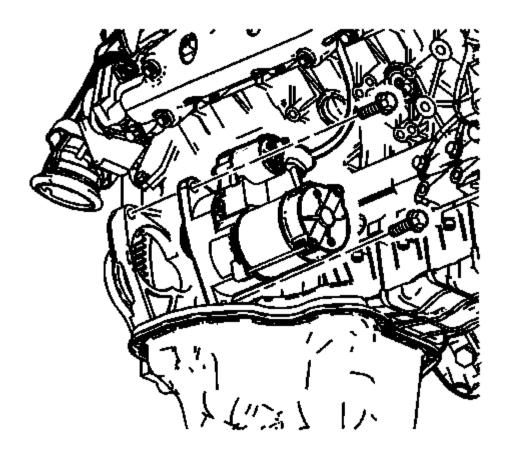


Fig. 4: View Of Starter Courtesy of GENERAL MOTORS COMPANY

- 1. Remove the starter motor bolts.
- 2. Remove the starter motor assembly.

CRANKSHAFT BALANCER REMOVAL

Special Tools

J 44643 Flywheel Hold Tool

For equivalent regional tools, refer to **Special Tools** .

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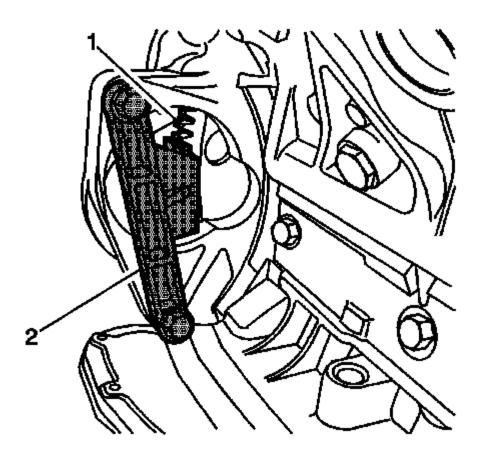


Fig. 5: Locking Flywheel Using J 44643 Courtesy of GENERAL MOTORS COMPANY

1. Install J 44643 tool (1, 2) to lock the flywheel.

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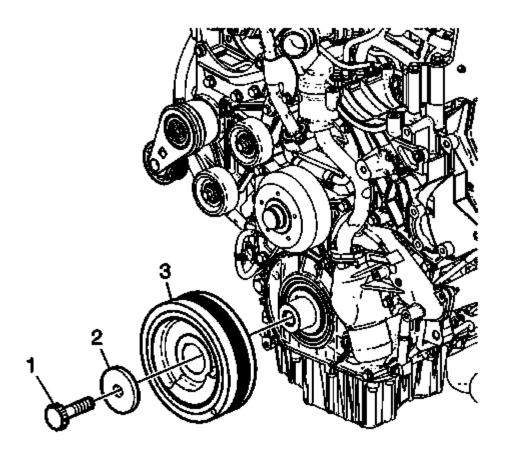


Fig. 6: Identifying Crankshaft Balancer, Washer And Bolt Courtesy of GENERAL MOTORS COMPANY

- 2. Remove and discard the crankshaft balancer bolt (1).
- 3. Remove the crankshaft balancer washer (2) and crankshaft balancer (3).

ENGINE FLYWHEEL REMOVAL (AUTOMATIC TRANSMISSION)

Special Tools

J 44643 Flywheel Hold Tool

For equivalent regional tools, refer to **Special Tools** .

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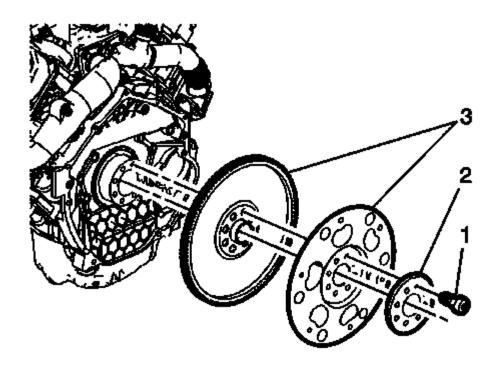


Fig. 7: View Of Flywheel & Washer (Automatic) Courtesy of GENERAL MOTORS COMPANY

- 1. Remove the flywheel mounting bolts and discard.
- 2. Remove the flywheel washer.
- 3. Remove the **J 44643** tool.
- 4. Remove the flywheel assembly.

CRANKSHAFT REAR OIL SEAL REMOVAL

Tools Required

J 44641 Crankshaft Rear Oil Seal Remover

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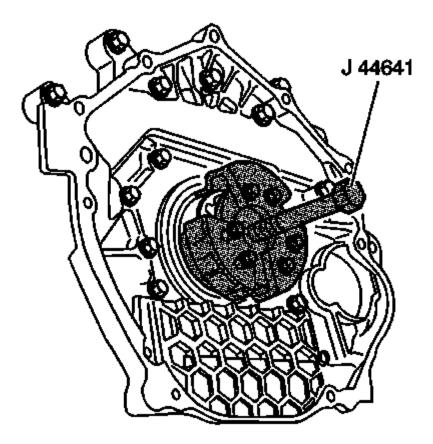


Fig. 8: Removing Crankshaft Rear Oil Seal Using J 44641 Courtesy of GENERAL MOTORS COMPANY

- 1. Install the button of J 44641 crankshaft rear oil seal remover into the crankshaft.
- 2. Press the jaws of **J 44641** crankshaft rear oil seal remover into the felt portion of the seal far enough to engage the inner lip of the seal.
- 3. While holding the jaws of **J 44641** crankshaft rear oil seal remover tightly to the seal's inner sleeve, tighten the jaw bolts.
- 4. Remove the crankshaft rear oil seal using the **J 44641** crankshaft rear oil seal remover.

EXHAUST TURBOCHARGER OUTLET PIPE ADAPTER REMOVAL

Special Tools

CH 49736 Hydrocarbon Injector Quick Connect Release Tool

For equivalent regional tools, refer to **Special Tools**.

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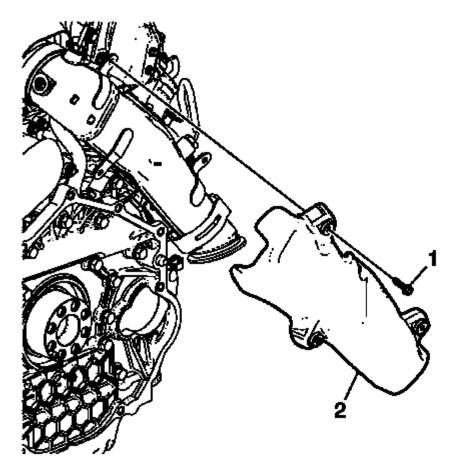


Fig. 9: View Of Exhaust Adapter Heat Shield And Bolts Courtesy of GENERAL MOTORS COMPANY

- 1. Remove the exhaust adapter heat shield bolts (1).
- 2. Remove the exhaust adapter heat shield (2).