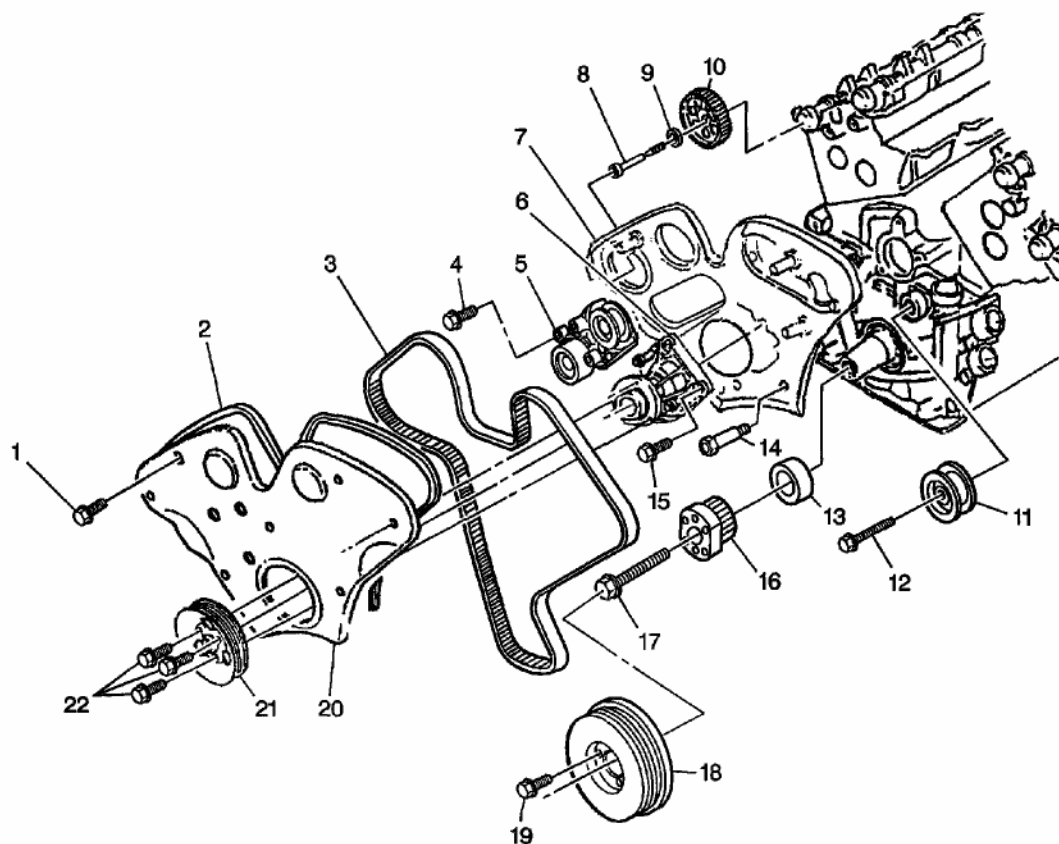


COMPONENT LOCATOR

DISASSEMBLED VIEWS



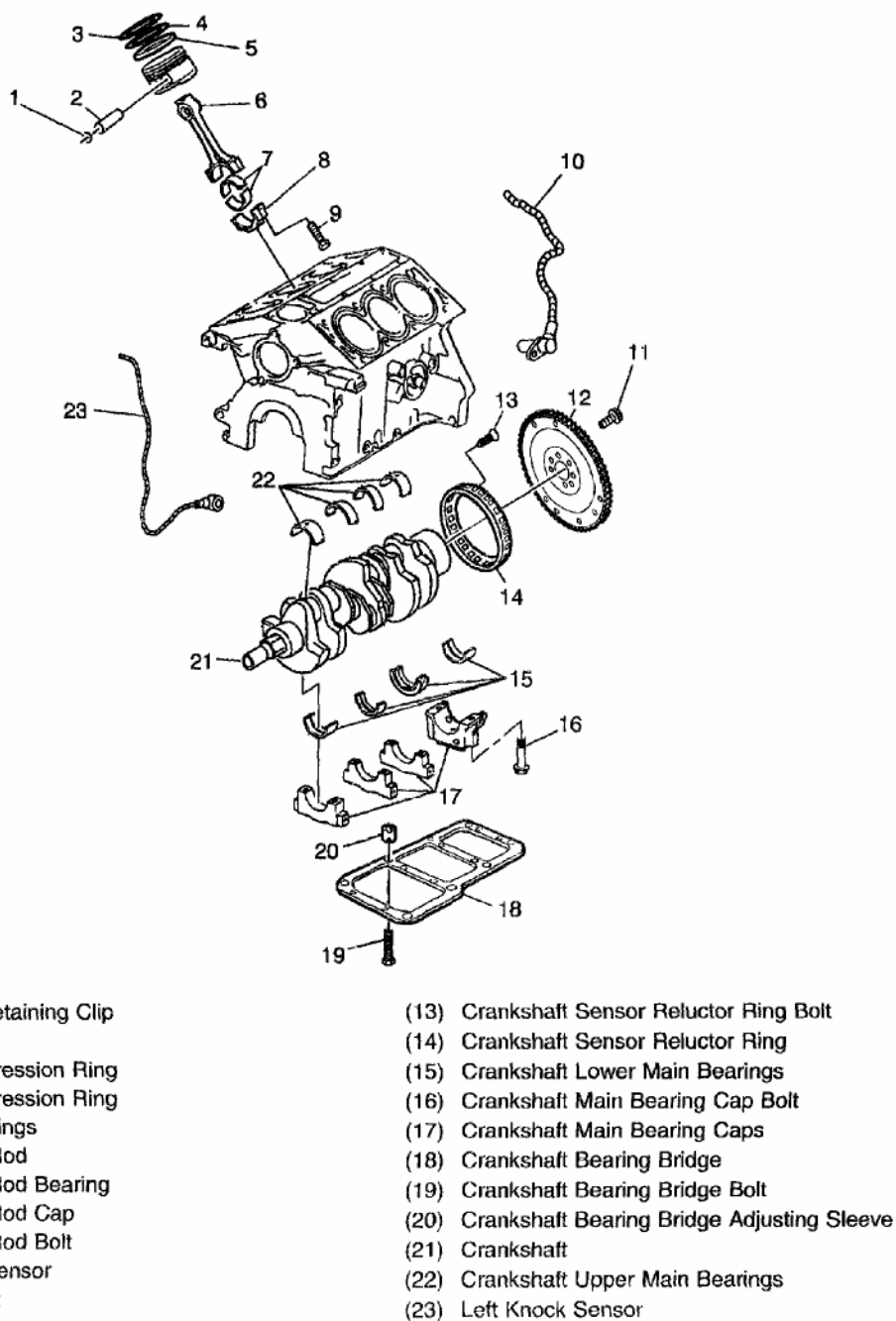
- | | |
|--|----------------------------------|
| (1) Timing Belt Front Cover Bolt | (12) 3-4 Timing Belt Idler Bolt |
| (2) Timing Belt Front Cover Seal | (13) Oil Pump Collar |
| (3) Timing Belt | (14) Timing Belt Rear Cover Bolt |
| (4) Timing Belt Tensioner Bracket Bolt | (15) Water Pump Bolt |
| (5) Timing Belt Tensioner Bracket, Includes 1-2 Idler Pulley and Tensioner | (16) Crankshaft Pulley |
| (6) Water Pump | (17) Crankshaft Pulley Bolt |
| (7) Timing Belt Rear Cover | (18) Crankshaft Balancer |
| (8) Camshaft Sprocket Bolt | (19) Crankshaft Balancer Bolt |
| (9) Camshaft Sprocket Washer | (20) Timing Belt Front Cover |
| (10) Camshaft Sprocket | (21) Water Pump Pulley |
| (11) 3-4 Timing Belt Idler | (22) Water Pump Pulley Bolts |

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Fig. 12: Disassembled View - Front Of Engine Components
Courtesy of GENERAL MOTORS CORP.

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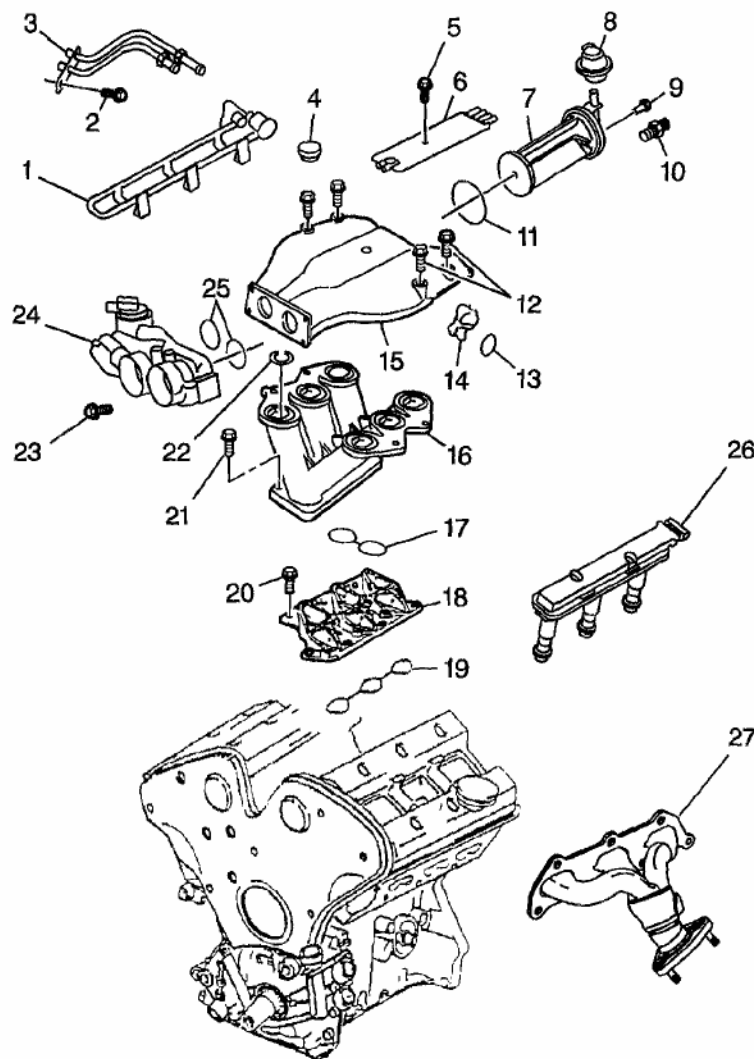


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Fig. 13: Disassembled View - Crankshaft/Pistons Components
Courtesy of GENERAL MOTORS CORP.

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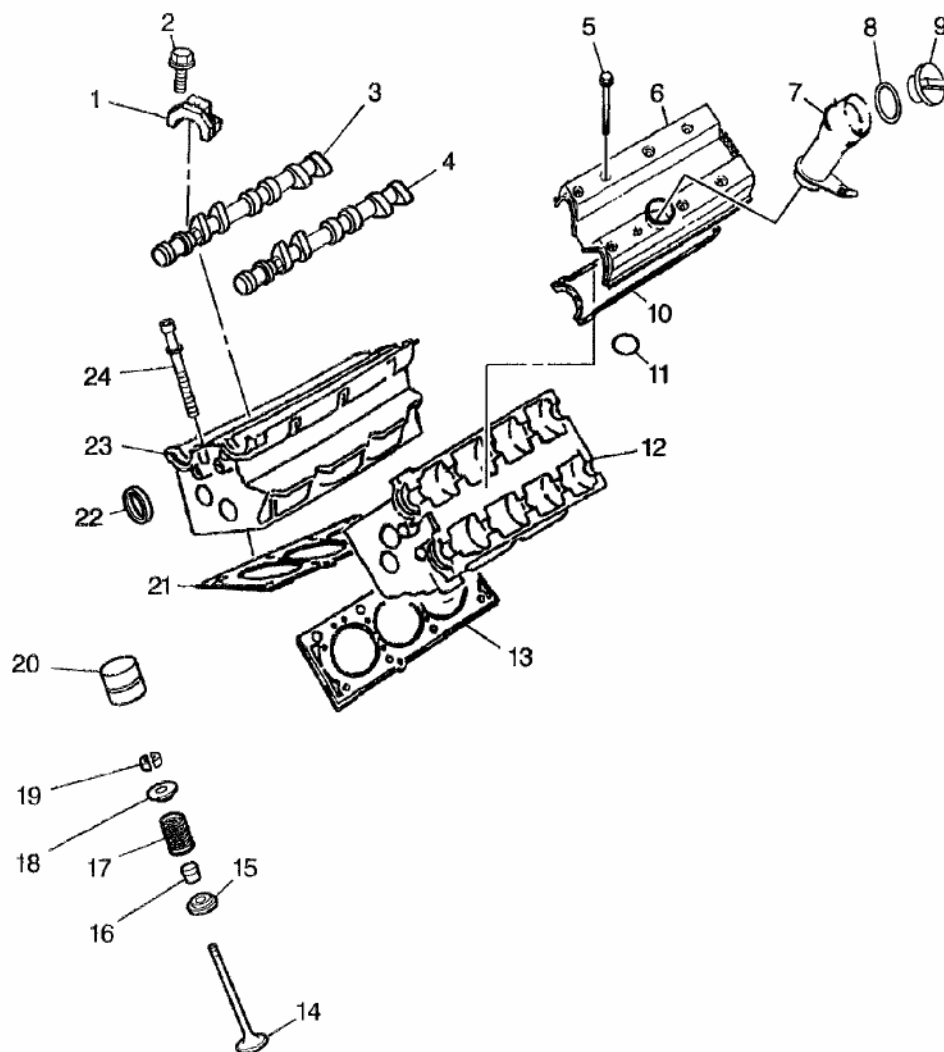
- | | |
|---|------------------------------------|
| (1) Fuel Injection Rail | (14) Idle Air Valve |
| (2) Fuel Injection Fuel Feed and Return Bolt | (15) Intake Plenum |
| (3) Fuel Injector Fuel Feed and Return | (16) Intake Manifold |
| (4) Intake Plenum Bolt Cap | (17) Intake Manifold Gasket |
| (5) PCV Vent Tube Adapter Bolt | (18) Intake Manifold Flange |
| (6) PCV Vent Tube Adapter | (19) Intake Manifold Flange Gasket |
| (7) Intake Manifold Tuning Valve | (20) Intake Manifold Flange Bolt |
| (8) Intake Manifold Tuning Valve Actuator | (21) Intake Manifold Bolt |
| (9) Intake Manifold Tuning Valve Bolt | (22) Intake Plenum O-ring |
| (10) Intake Manifold Tuning Valve Solenoid Valve Hose | (23) Throttle Body Bolt |
| (11) Intake Manifold Tuning Valve O-ring | (24) Throttle Body |
| (12) Intake Manifold Plenum Bolt | (25) Throttle Body O-ring |
| (13) PCV Vent Tube Adapter O-ring | (26) Ignition Coil Cassette |
| | (27) Left Exhaust Manifold |

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Fig. 14: Disassembled View - Manifold & Related Components
Courtesy of GENERAL MOTORS CORP.

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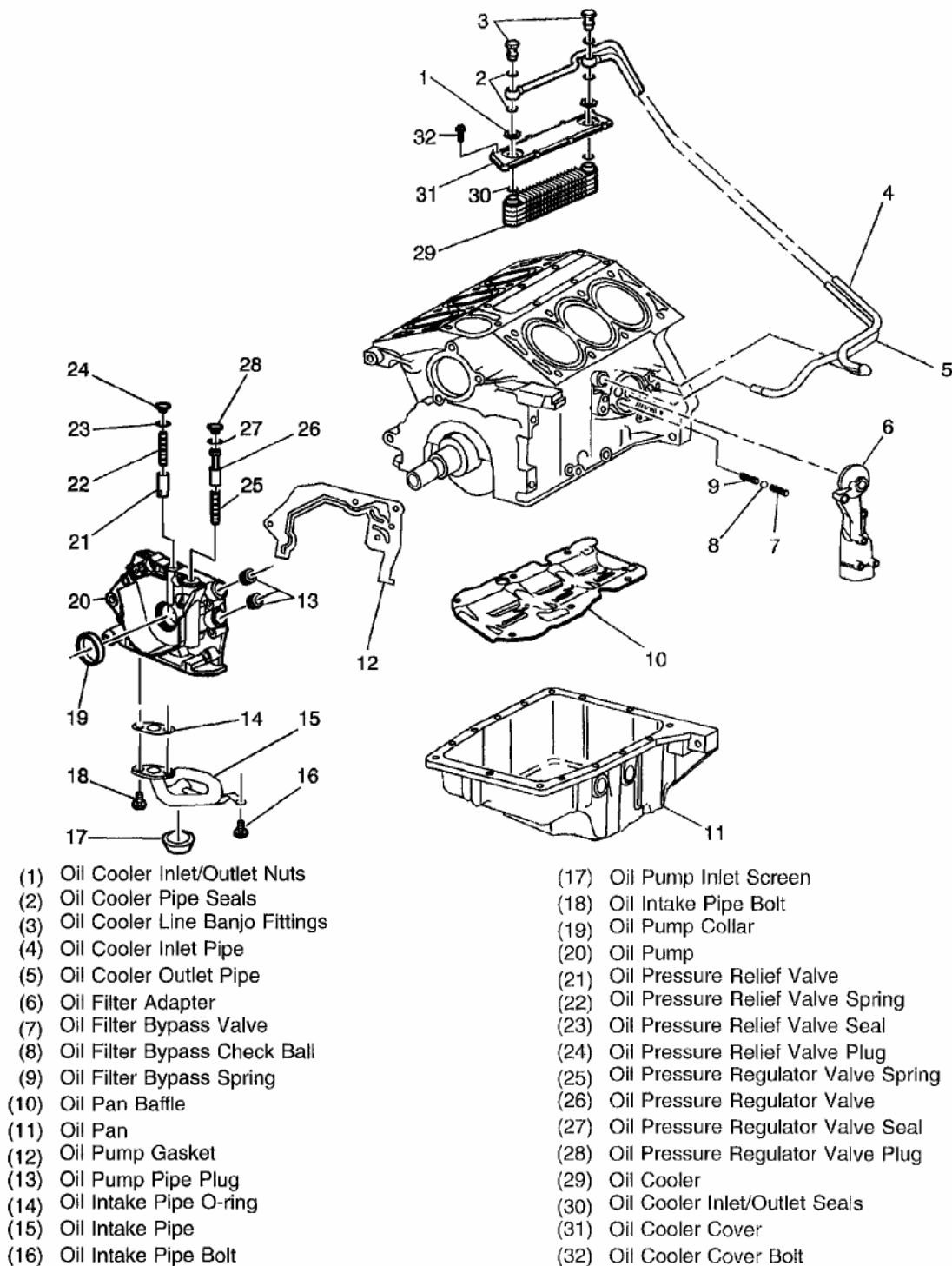
- | | |
|-------------------------------|----------------------------------|
| (1) Camshaft Bearing Cap | (13) Left Cylinder Head Gasket |
| (2) Camshaft Bearing Cap Bolt | (14) Valve |
| (3) Exhaust Camshaft | (15) Valve Spring Seat |
| (4) Intake Camshaft | (16) Valve Seal |
| (5) Camshaft Cover Bolt | (17) Valve Spring |
| (6) Camshaft Cover | (18) Valve Spring Cap |
| (7) Oil Fill Tube | (19) Valve Spring Retaining Keys |
| (8) Oil Fill Cap O-ring | (20) Valve Lifter |
| (9) Oil Fill Cap | (21) Right Cylinder Head Gasket |
| (10) Camshaft Cover Gasket | (22) Camshaft Seal |
| (11) Camshaft Cover O-ring | (23) Right Cylinder Head |
| (12) Left Cylinder Head | (24) Cylinder Head Bolt |

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Fig. 15: Disassembled View - Cylinder Head & Components
Courtesy of GENERAL MOTORS CORP.

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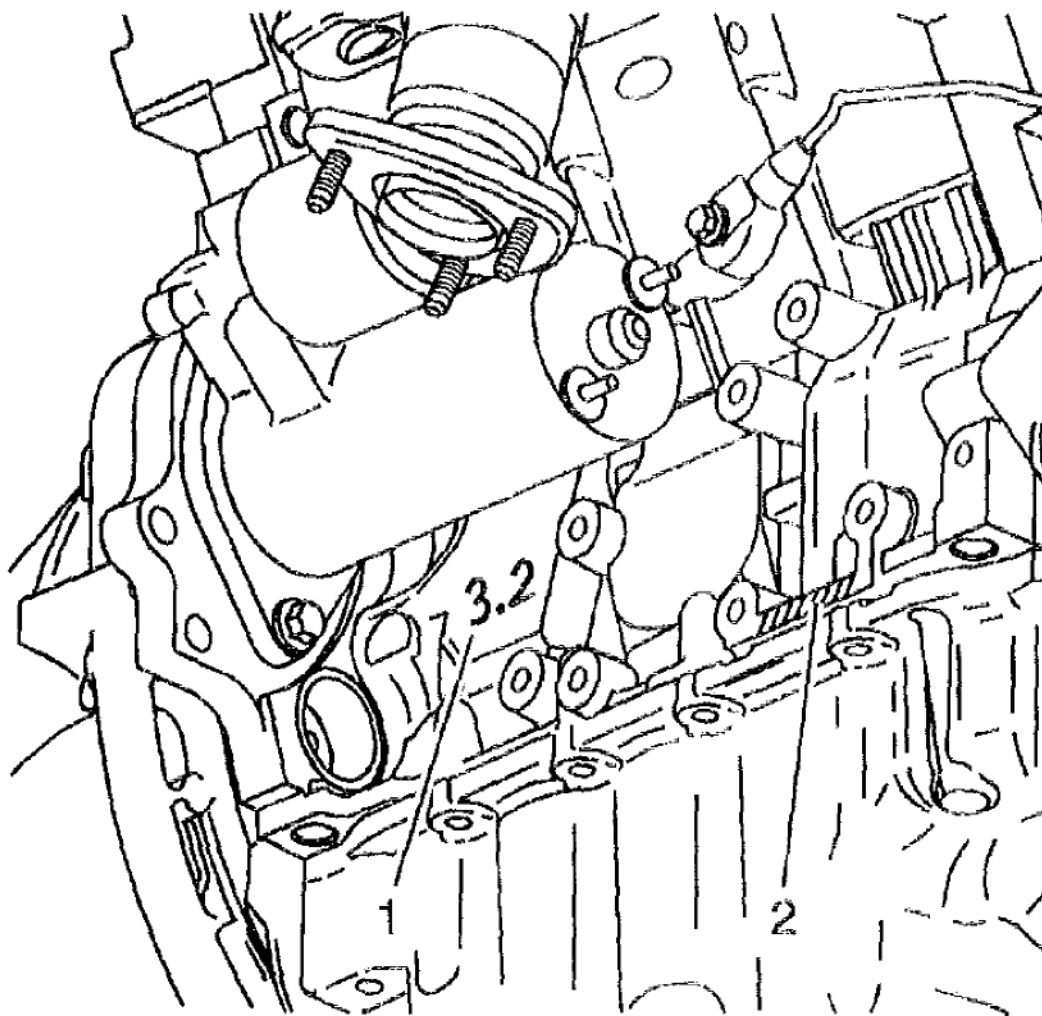
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Fig. 16: Disassembled View - Oil Pan & Delivery Components
 Courtesy of GENERAL MOTORS CORP.

ENGINE IDENTIFICATION



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Fig. 17: Locating Vehicle Identification Number (VIN) Derivative
Courtesy of GENERAL MOTORS CORP.

The Vehicle Identification Number (VIN) Derivative (2) is located on the lower right side of the engine block and is a nine digit number stamped or laser etched onto the engine at the vehicle assembly plant. If reading the identification number from the left, the following information can be obtained:

- The first digit identifies the vehicle division.
- The second digit identifies the model year.
- The third digit identifies the assembly plant.
- The fourth through ninth digits are the last six digits of the Vehicle Identification Number (VIN).

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Engine displacement (1) is cast into the engine block under the starter motor.