

ENGINE

Engine Mechanical - 6.2L (LT1) - Component Locator - Corvette

COMPONENT LOCATOR

DISASSEMBLED VIEWS (6.2L LT1)

Cylinder Head/Upper Engine - With Active Fuel Management

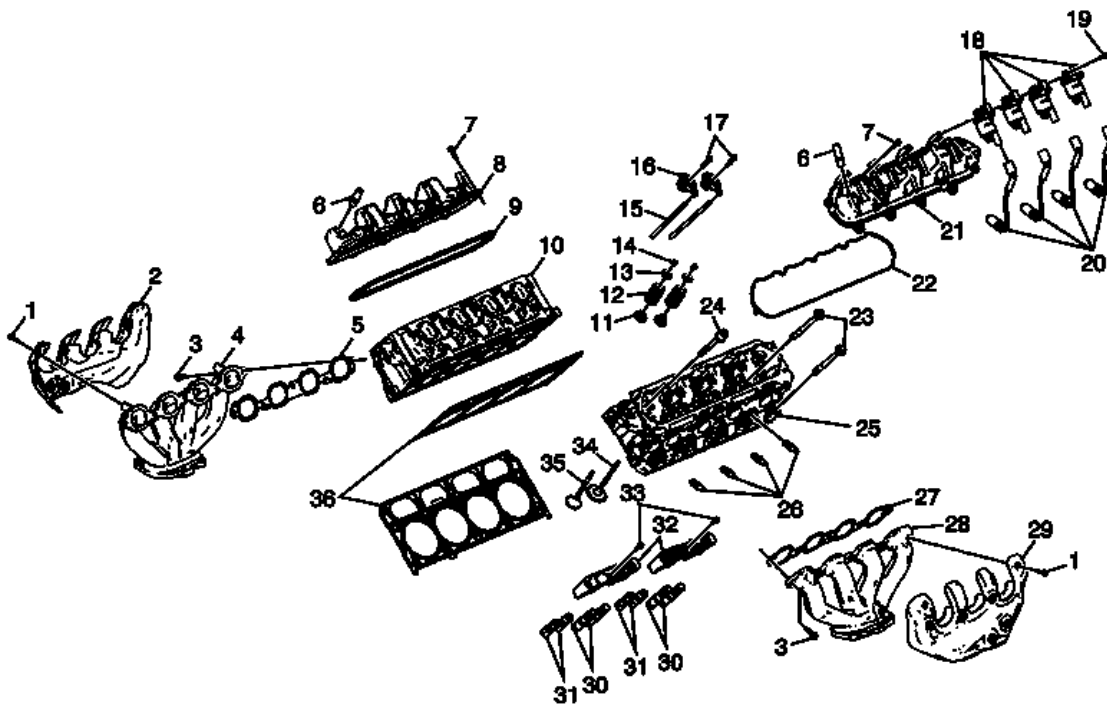


Fig. 1: Exploded View Of Cylinder Head/Upper Engine - With Active Fuel Management
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Exhaust Manifold Heat Shield Bolt
2	Exhaust Manifold Heat Shield - Right
3	Exhaust Manifold Bolt
4	Exhaust Manifold Assembly - Right

5	Exhaust Manifold Gasket
6	PCV Fitting
7	Valve Rocker Arm Cover Bolt
8	Valve Rocker Arm Cover - Right
9	Valve Rocker Arm Cover Gasket
10	Cylinder Head - Right
11	Valve Stem Oil Seal
12	Valve Spring
13	Valve Spring Cap
14	Valve Stem Key
15	Valve Push Rod Assembly
16	Valve Rocker Arm Assembly
17	Valve Rocker Arm Pivot Support Bolt
18	Ignition Coil Assembly
19	Ignition Coil Bolt
20	Spark Plug Wire Assembly
21	Valve Rocker Arm Cover - Left
22	Valve Rocker Arm Cover Gasket
23	Cylinder Head Bolt
24	Cylinder Head Bolt
25	Cylinder Head - Left
26	Spark Plug Assembly
27	Exhaust Manifold Gasket
28	Exhaust Manifold Assembly - Left
29	Exhaust Manifold Heat Shield - Left
30	Valve Lifter
31	Valve Lifter - Non AFM
32	Valve Lifter Guide
33	Valve Lifter Guide Bolt
34	Exhaust Valve
35	Intake Valve
36	Cylinder Head Gasket

Front of Engine

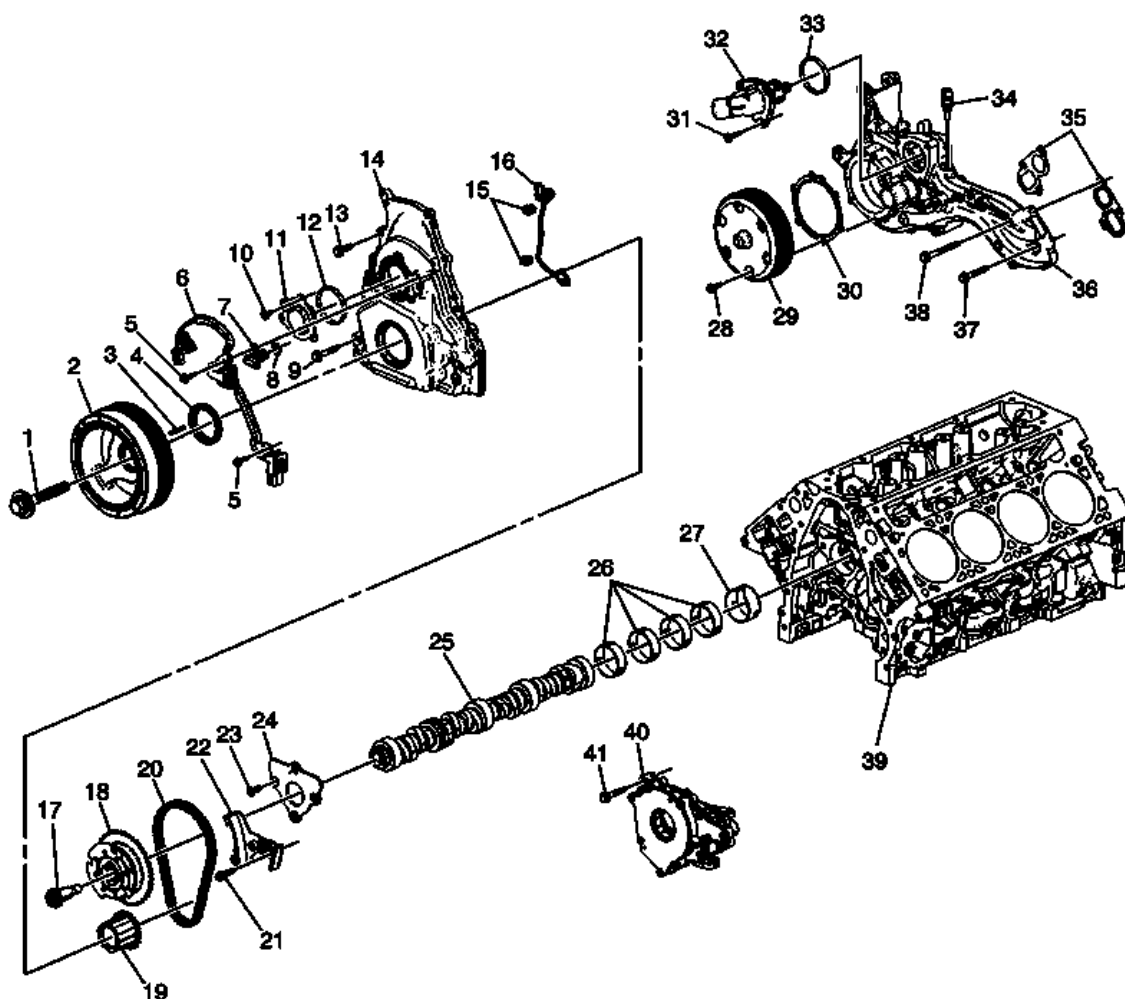


Fig. 2: Exploded View Of
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Crankshaft Balancer Bolt
2	Crankshaft Balancer Assembly
3	Crankshaft Balancer Key
4	Crankshaft Front Oil Seal
5	Camshaft Position Sensor Wire Assembly Bracket Bolt
6	Camshaft Position Sensor Wire Assembly
7	Camshaft Position Sensor Assembly
8	Camshaft Position Sensor Seal
9	Engine Front Cover Bolt
10	Camshaft Position Actuator Magnet Bolt
11	Camshaft Position Actuator Magnet
12	Camshaft Position Actuator Magnet Gasket
13	Engine Front Cover Bolt

14	Engine Front Cover Assembly
15	Oil Pump Flow Control Solenoid Valve Wire Clip
16	Oil Pump Flow Control Solenoid Valve Wire
17	Camshaft Position Actuator Solenoid Valve
18	Camshaft Position Actuator Assembly
19	Crankshaft Sprocket Assembly
20	Timing Chain Assembly
21	Timing Chain Tensioner Bolt
22	Timing Chain Tensioner Kit
23	Camshaft Retainer Bolt
24	Camshaft Retainer
25	Camshaft Assembly
26	Camshaft Bearings
27	Camshaft Bearing
28	Water Pump Impeller Bolt
29	Water Pump Impeller
30	Water Pump Impeller Gasket
31	Thermostat Housing Bolt
32	Thermostat Housing
33	Thermostat Housing Gasket
34	Engine Coolant Temperature Sensor
35	Water Pump Gasket
36	Water Pump Housing
37	Water Pump Bolt
38	Water Pump Bolt
39	Engine Block Assembly
40	Oil Pump Assembly
41	Oil Pump Bolt

Fuel Delivery System and Components

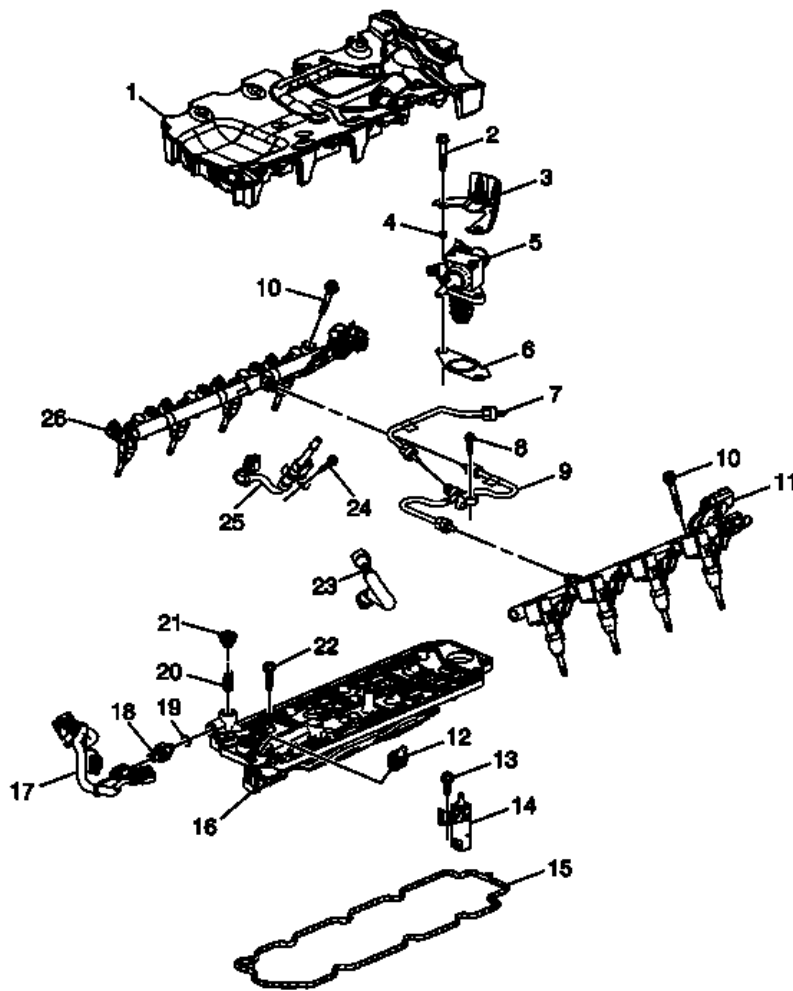


Fig. 3: Exploded View Of Fuel Delivery System and Components
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Fuel Pump Insulator
2	Fuel Pump Bolt
3	Fuel Pump Cover
4	Fuel Pump Bolt Retainer
5	Fuel Pump Assembly
6	Fuel Pump Gasket
7	Fuel Feed Intermediate Pipe
8	Fuel Feed Intermediate Pipe Bolt
9	Fuel Feed Intermediate Pipe
10	Fuel Injection Fuel Rail Bolt
11	Direct Fuel Injection Fuel Rail Assembly - Left
12	PCV Assembly
13	Valve Lifter Follower Guide Assembly Bolt

14	Valve Lifter Follower Guide Assembly
15	Valve Lifter Oil Manifold Gasket
16	Valve Lifter Oil Manifold Assembly
17	Jumper
18	Engine Oil Pressure Sensor Assembly
19	Engine Oil Pressure Sensor Assembly Seal
20	Valve Lifter Oil Filter
21	Valve Lifter Oil Manifold Plug
22	Valve Lifter Oil Manifold Bolt
23	PCV Tube Assembly
24	Fuel Feed Pipe Bolt
25	Fuel Feed Pipe Assembly
26	Direct Fuel Injection Fuel Rail Assembly - Right

Lower Engine and Components

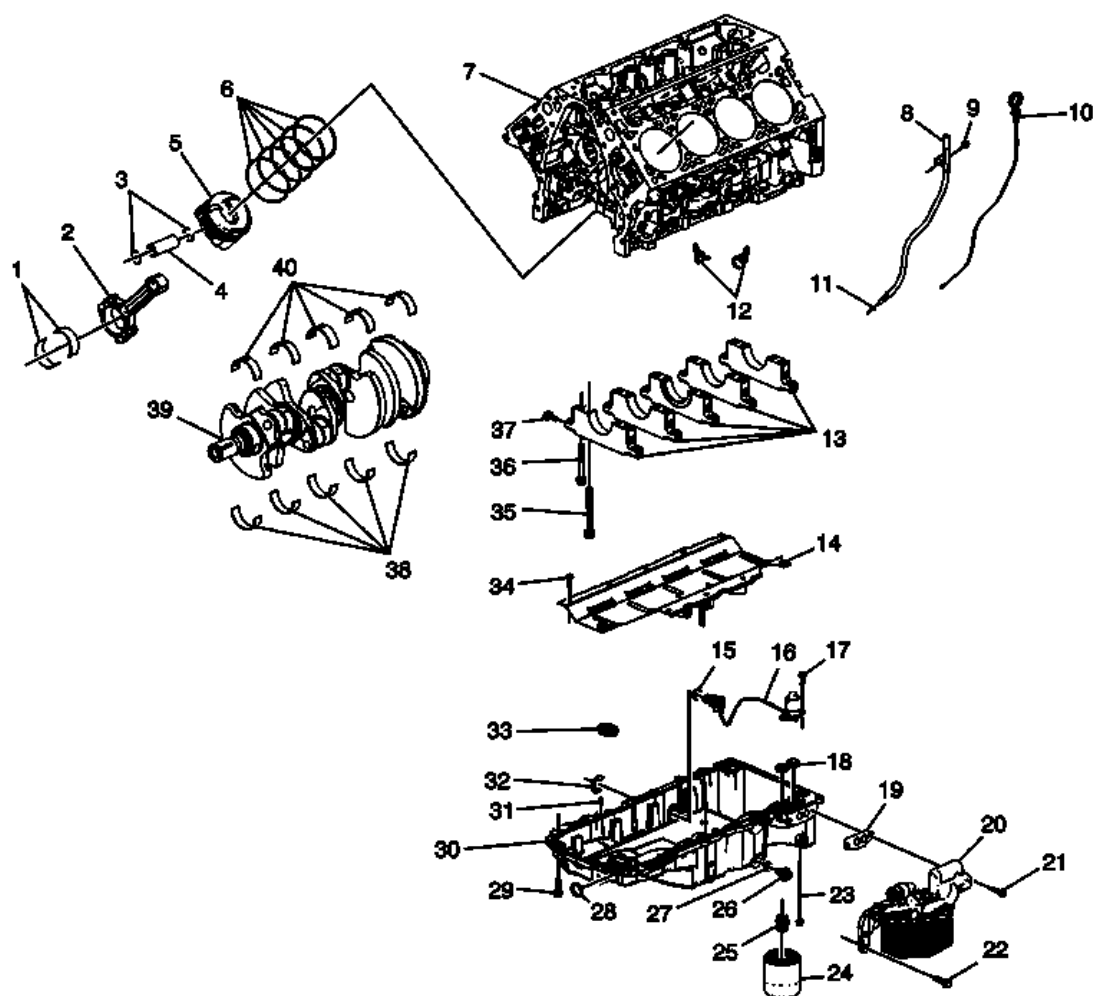


Fig. 4: Exploded View Of Lower Engine and Components

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Connecting Rod Bushing
2	Connecting Rod Assembly
3	Piston Pin Retainer
4	Piston Pin
5	Piston
6	Piston Ring Set
7	Engine Block Assembly
8	Oil Level Indicator Tube
9	Oil Level Indicator Tube Bolt
10	Oil Level Indicator Assembly
11	Oil Level Indicator Tube O-ring
12	Piston Oil Nozzle Assembly
13	Crankshaft Bearing Cap
14	Crankshaft Oil Deflector
15	Oil Level Indicator Switch Seal
16	Oil Level Indicator Switch
17	Oil Level Indicator Switch Bolt
18	Oil Pan High Pressure Port Seal
19	Engine Oil Cooler Gasket
20	Engine Oil Cooler
21	Engine Oil Cooler Bolt
22	Engine Oil Cooler Bolt
23	Oil Pan Bolt
24	Oil Filter
25	Oil Filter Fitting
26	Oil Pan Drain Plug
27	Oil Pan Drain Plug Seal
28	Oil Pan Cup Plug
29	Oil Pan Bolt
30	Oil Pan
31	Oil Pan Locating Pin
32	Oil Level Sensor Lead Clip
33	Oil Pan Front Seal
34	Crankshaft Oil Deflector Bolt
35	Crankshaft Bearing Cap Bolt - Inner
36	Crankshaft Bearing Cap Bolt - Outer
37	Crankshaft Bearing Cap Bolt - Side
38	Crankshaft Lower Bearing

39	Crankshaft Assembly
40	Crankshaft Upper Bearing

Rear of Engine

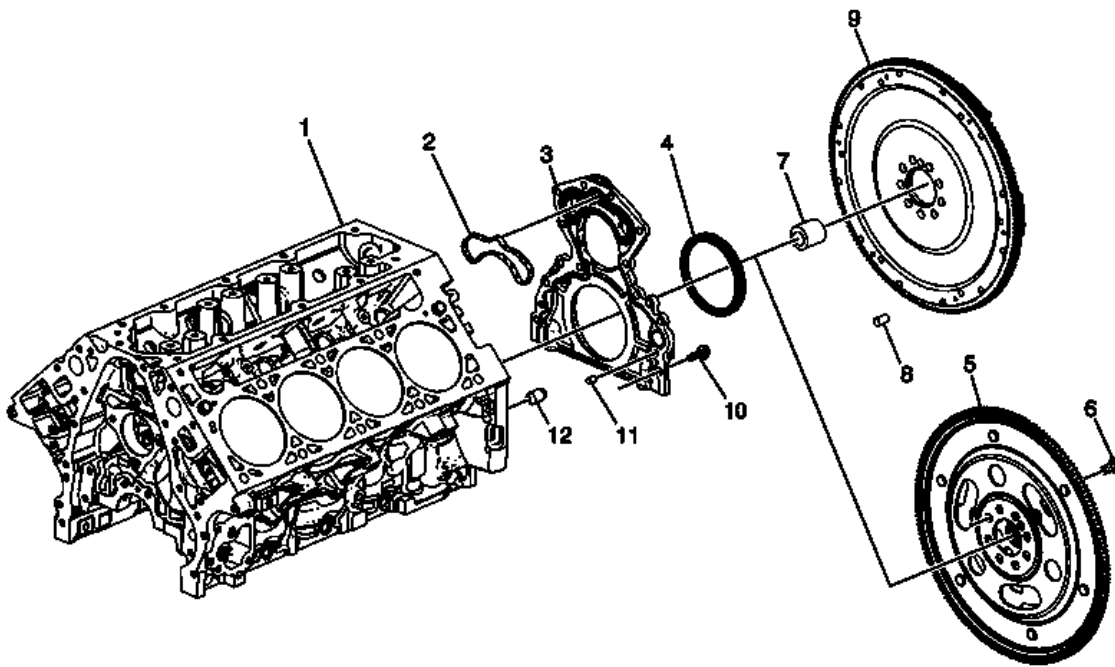


Fig. 5: Exploded View Of Rear of Engine
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Engine Block
2	Crankshaft Rear Oil Seal Housing Gasket
3	Crankshaft Rear Oil Seal Housing
4	Crankshaft Rear Oil Seal
5	Automatic Transmission Flex Plate
6	Automatic Transmission Flex Plate Bolt
7	Transmission Pilot Bearing - Manual Transmission
8	Balance Weight - Flywheel - Manual Transmission
9	Flywheel - Manual Transmission
10	Crankshaft Rear Oil Seal Housing Bolt
11	Crankshaft Rear Oil Seal Housing Locating Pin
12	Transmission Locating Pin

Oil Pump Assembly

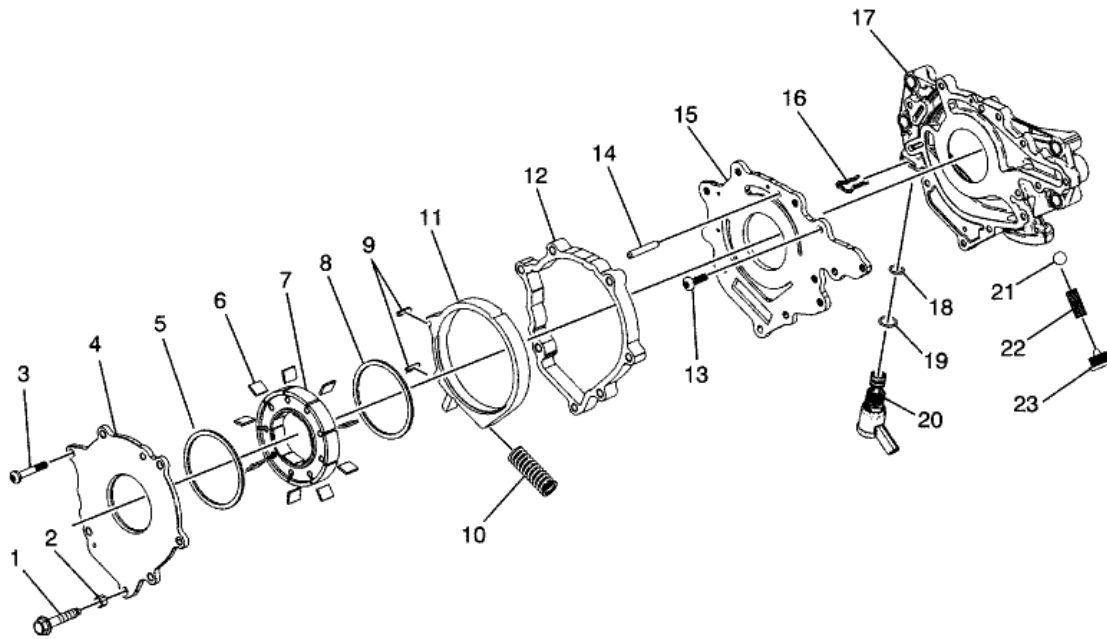


Fig. 6: Exploded View Of Oil Pump Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Oil Pump Cover Bolt
2	Bolt Retainer
3	Oil Pump Cover Bolt
4	Oil Pump Cover
5	Oil Pump Vane Ring
6	Oil Pump Vane
7	Oil Pump Vane Rotor
8	Oil Pump Vane Ring
9	Oil Pump Slide Seal
10	Oil Pump Slide Spring
11	Oil Pump Slide
12	Oil Pump Intermediate Housing
13	Oil Pump Rear Cover Bolt
14	Oil Pump Slide Pivot Pin
15	Oil Pump Rear Cover
16	Oil Pump Flow Control Solenoid Retainer
17	Oil Pump Housing
18	Oil Pump Flow Control Solenoid O-ring
19	Oil Pump Flow Control Solenoid O-ring

20	Oil Pump Flow Control Solenoid
21	Oil Pressure Relief Valve
22	Oil Pressure Relief Valve Spring
23	Oil Pressure Relief Valve Bore Plug

Intake Manifold and Components

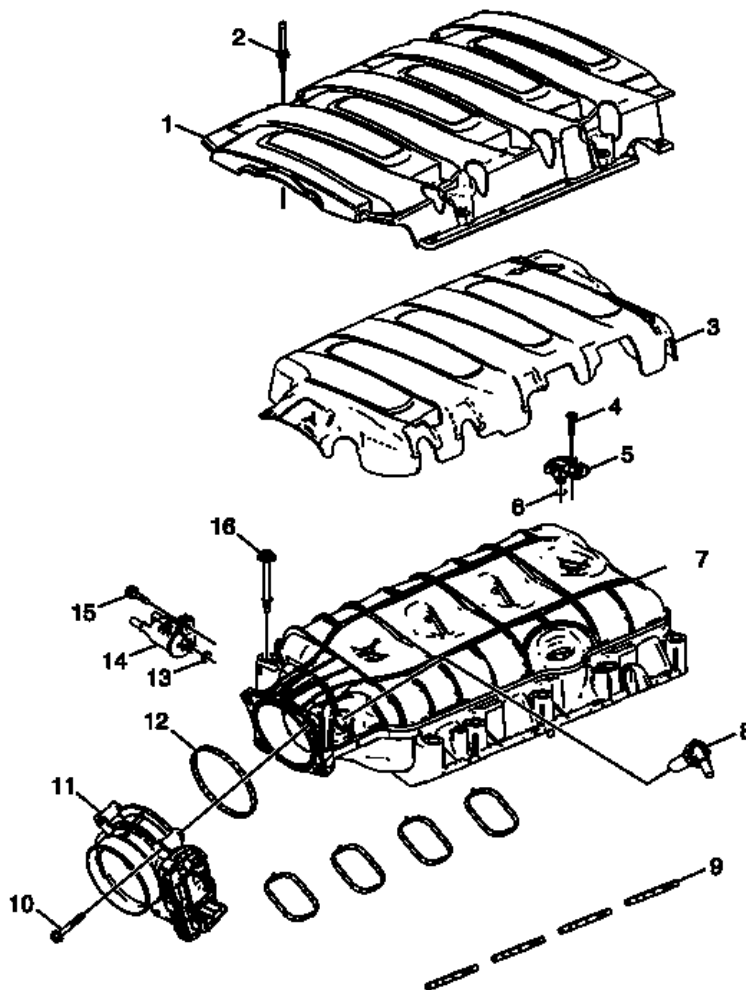


Fig. 7: Exploded View Of Intake Manifold and Components
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Intake Manifold Cover Assembly
2	Intake Manifold Cover Stud
3	Intake Manifold Cover Insulator
4	MAP Sensor Bolt
5	MAP Sensor
6	MAP Sensor Seal

7	Intake Manifold Assembly
8	PCV Fitting
9	Intake Manifold Gasket
10	Throttle Body Bolt
11	Throttle Body Assembly
12	Throttle Body Gasket
13	EVAP Emission Canister Purge Valve Seal
14	EVAP Emission Canister Purge Valve
15	EVAP Emission Canister Purge Valve Bolt
16	Intake Manifold Bolt

Engine Block Plugs/Sensors

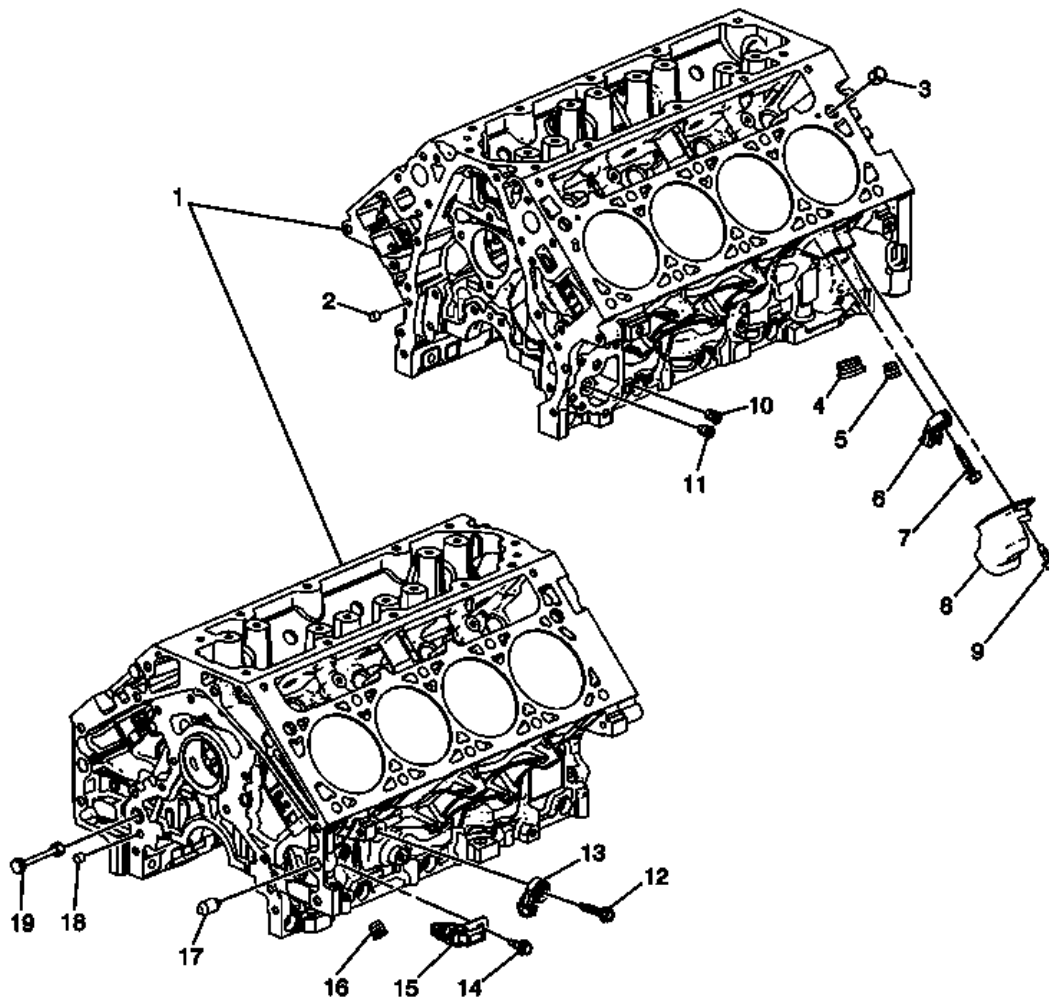


Fig. 8: Exploded View Of Engine Block Plugs/Sensors
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
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1	Engine Block
2	Engine Front Cover Locating Pin
3	Cylinder Head Locating Pin
4	Engine Block Plug
5	Engine Block Plug
6	Knock Sensor Assembly
7	Knock Sensor Bolt
8	Knock Sensor Shield
9	Knock Sensor Shield Bolt
10	Engine Block Oil Gallery Plug
10	Engine Block Oil Gallery Plug
12	Knock Sensor Bolt
13	Knock Sensor Assembly
14	Crankshaft Position Sensor Bolt
15	Crankshaft Position Sensor Assembly
16	Engine Block Plug
17	Transmission Locating Pin
18	Crankshaft Rear Oil Housing Locating Pin
19	Engine Block Oil Gallery Plug

DISASSEMBLED VIEWS (6.2L LT1 WITH Z52 OPTION)

Engine Block Plugs/Sensors

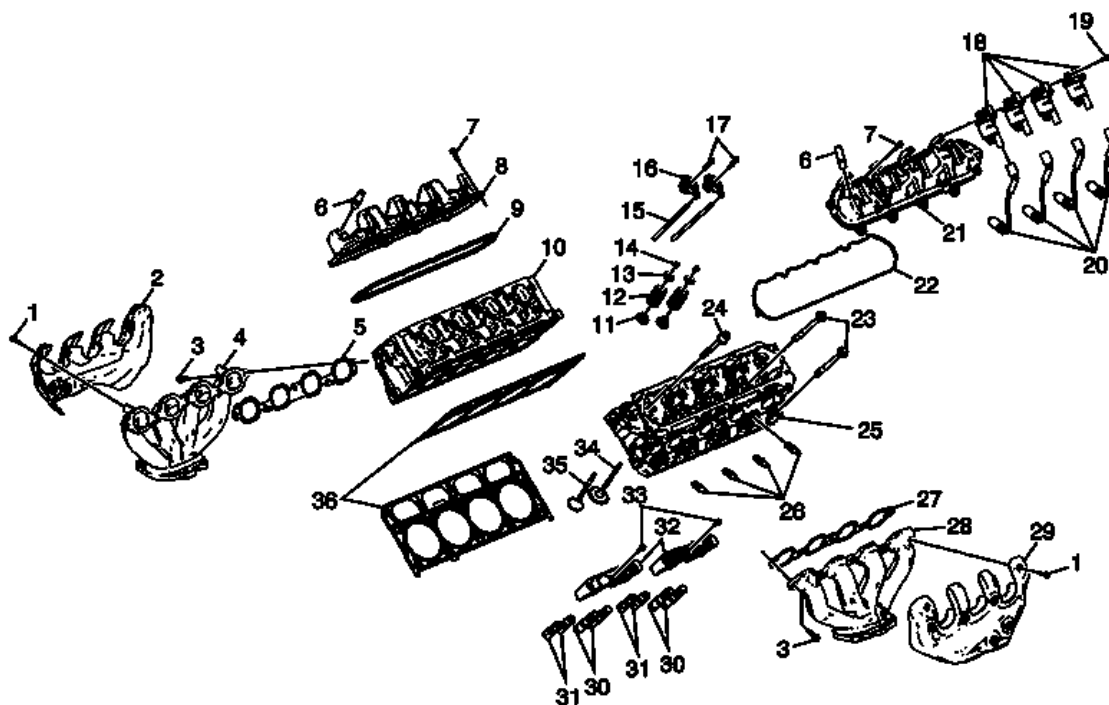


Fig. 9: Exploded View Of Engine Block Plugs/Sensors
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Exhaust Manifold Heat Shield Bolt
2	Exhaust Manifold Heat Shield - Right
3	Exhaust Manifold Bolt
4	Exhaust Manifold Assembly - Right
5	Exhaust Manifold Gasket
6	PCV Fitting
7	Valve Rocker Arm Cover Bolt
8	Valve Rocker Arm Cover - Right
9	Valve Rocker Arm Cover Gasket
10	Cylinder Head - Right
11	Valve Stem Oil Seal
12	Valve Spring
13	Valve Spring Cap

14	Valve Stem Key
15	Valve Push Rod Assembly
16	Valve Rocker Arm Assembly
17	Valve Rocker Arm Pivot Support Bolt
18	Ignition Coil Assembly
19	Ignition Coil Bolt
20	Spark Plug Wire Assembly
21	Valve Rocker Arm Cover - Left
22	Valve Rocker Arm Cover Gasket
23	Cylinder Head Bolt
24	Cylinder Head Bolt
25	Cylinder Head - Left
26	Spark Plug Assembly
27	Exhaust Manifold Gasket
28	Exhaust Manifold Assembly - Left
29	Exhaust Manifold Heat Shield - Left
30	Valve Lifter
31	Valve Lifter - Non AFM
32	Valve Lifter Guide
33	Valve Lifter Guide Bolt
34	Exhaust Valve
35	Intake Valve
36	Cylinder Head Gasket

Front of Engine (with Z52 Option)

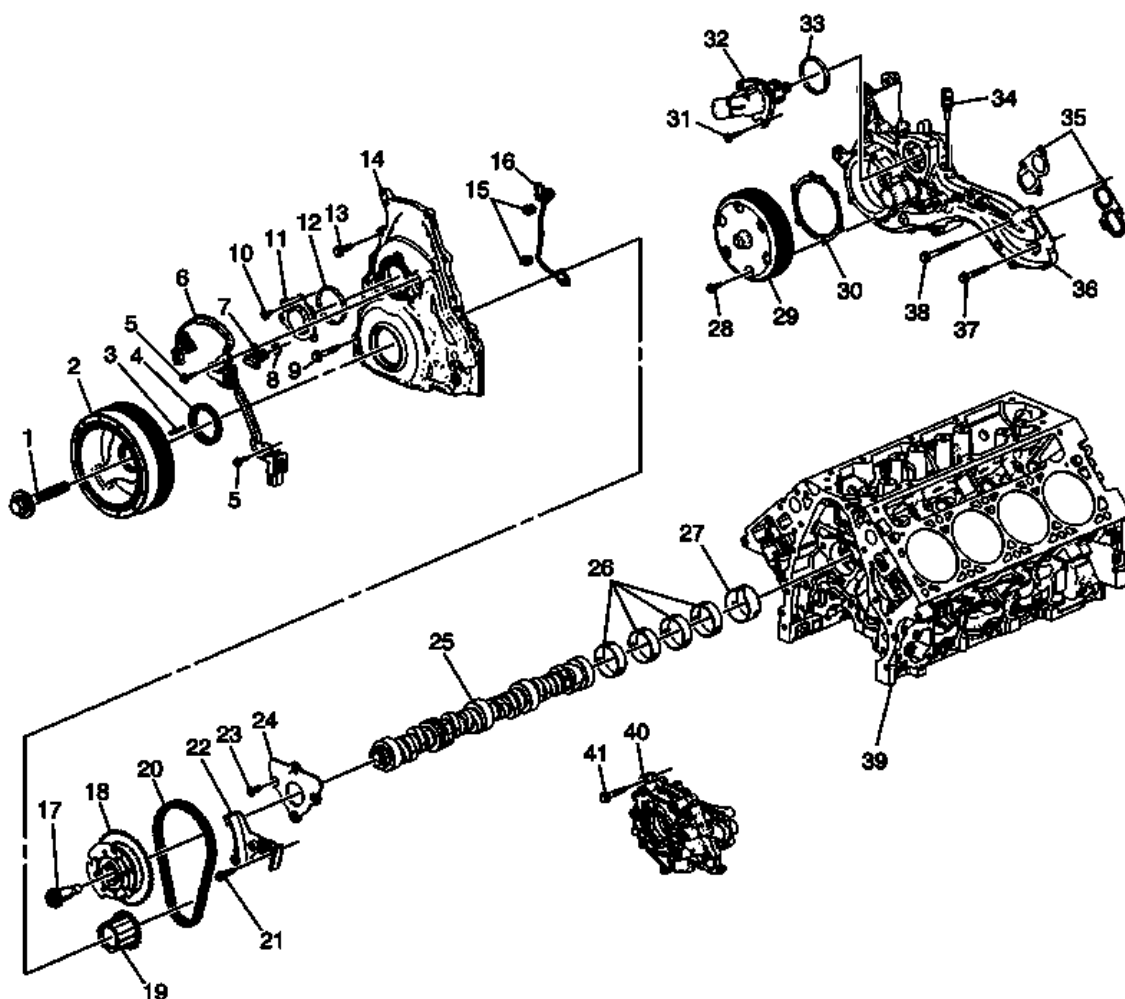


Fig. 10: Exploded View Of Front of Engine (with Z52 Option)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Crankshaft Balancer Bolt
2	Crankshaft Balancer Assembly
3	Crankshaft Balancer Key
4	Crankshaft Front Oil Seal
5	Camshaft Position Sensor Wire Assembly Bracket Bolt
6	Camshaft Position Sensor Wire Assembly
7	Camshaft Position Sensor Assembly
8	Camshaft Position Sensor Seal
9	Engine Front Cover Bolt
10	Camshaft Position Actuator Magnet Bolt
11	Camshaft Position Actuator Magnet
12	Camshaft Position Actuator Magnet Gasket
13	Engine Front Cover Bolt

14	Engine Front Cover Assembly
15	Oil Pump Flow Control Solenoid Valve Wire Clip
16	Oil Pump Flow Control Solenoid Valve Wire
17	Camshaft Position Actuator Solenoid Valve
18	Camshaft Position Actuator Assembly
19	Crankshaft Sprocket Assembly
20	Timing Chain Assembly
21	Timing Chain Tensioner Bolt
22	Timing Chain Tensioner Kit
23	Camshaft Retainer Bolt
24	Camshaft Retainer
25	Camshaft Assembly
26	Camshaft Bearings
27	Camshaft Bearing
28	Water Pump Impeller Bolt
29	Water Pump Impeller
30	Water Pump Impeller Gasket
31	Thermostat Housing Bolt
32	Thermostat Housing
33	Thermostat Housing Gasket
34	Engine Coolant Temperature Sensor
35	Water Pump Gasket
36	Water Pump Housing
37	Water Pump Bolt
38	Water Pump Bolt
39	Engine Block Assembly
40	Oil Pump Assembly
41	Oil Pump Bolt

Fuel Delivery System and Components

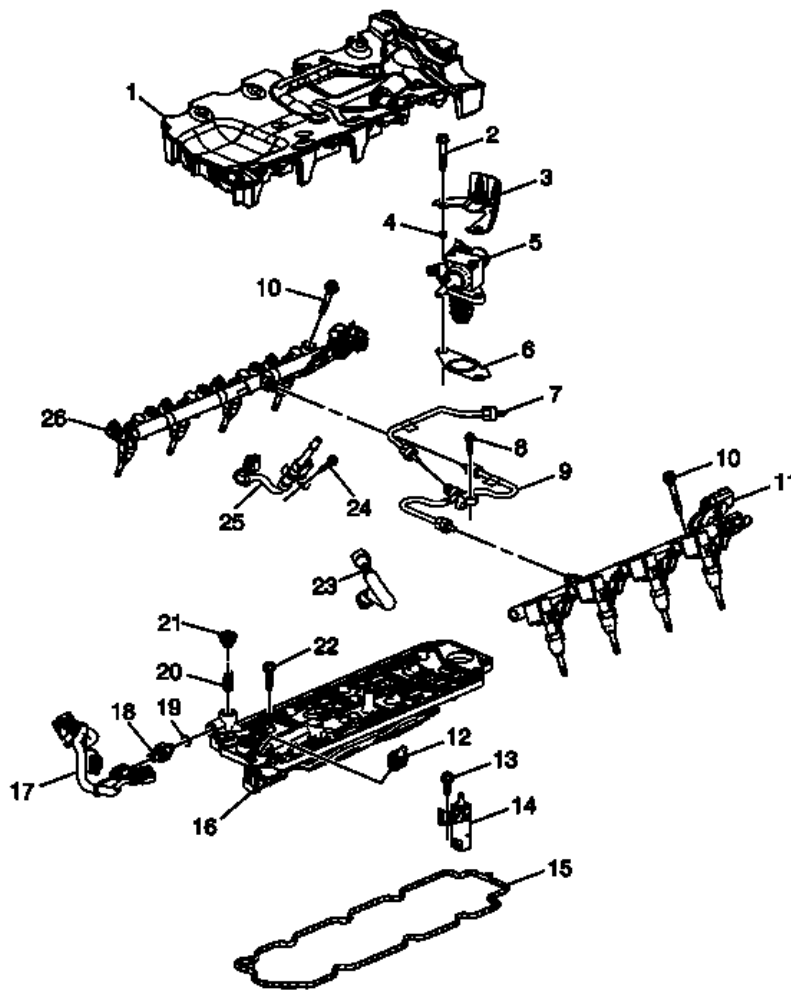


Fig. 11: Exploded View Of Fuel Delivery System and Components
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Fuel Pump Insulator
2	Fuel Pump Bolt
3	Fuel Pump Cover
4	Fuel Pump Bolt Retainer
5	Fuel Pump Assembly
6	Fuel Pump Gasket
7	Fuel Feed Intermediate Pipe
8	Fuel Feed Intermediate Pipe Bolt
9	Fuel Feed Intermediate Pipe
10	Fuel Injection Fuel Rail Bolt
11	Direct Fuel Injection Fuel Rail Assembly - Left
12	PCV Assembly
13	Valve Lifter Follower Guide Assembly Bolt

14	Valve Lifter Follower Guide Assembly
15	Valve Lifter Oil Manifold Gasket
16	Valve Lifter Oil Manifold Assembly
17	Jumper
18	Engine Oil Pressure Sensor Assembly
19	Engine Oil Pressure Sensor Assembly Seal
20	Valve Lifter Oil Filter
21	Valve Lifter Oil Manifold Plug
22	Valve Lifter Oil Manifold Bolt
23	PCV Tube Assembly
24	Fuel Feed Pipe Bolt
25	Fuel Feed Pipe Assembly
26	Direct Fuel Injection Fuel Rail Assembly - Right

Lower Engine and Components

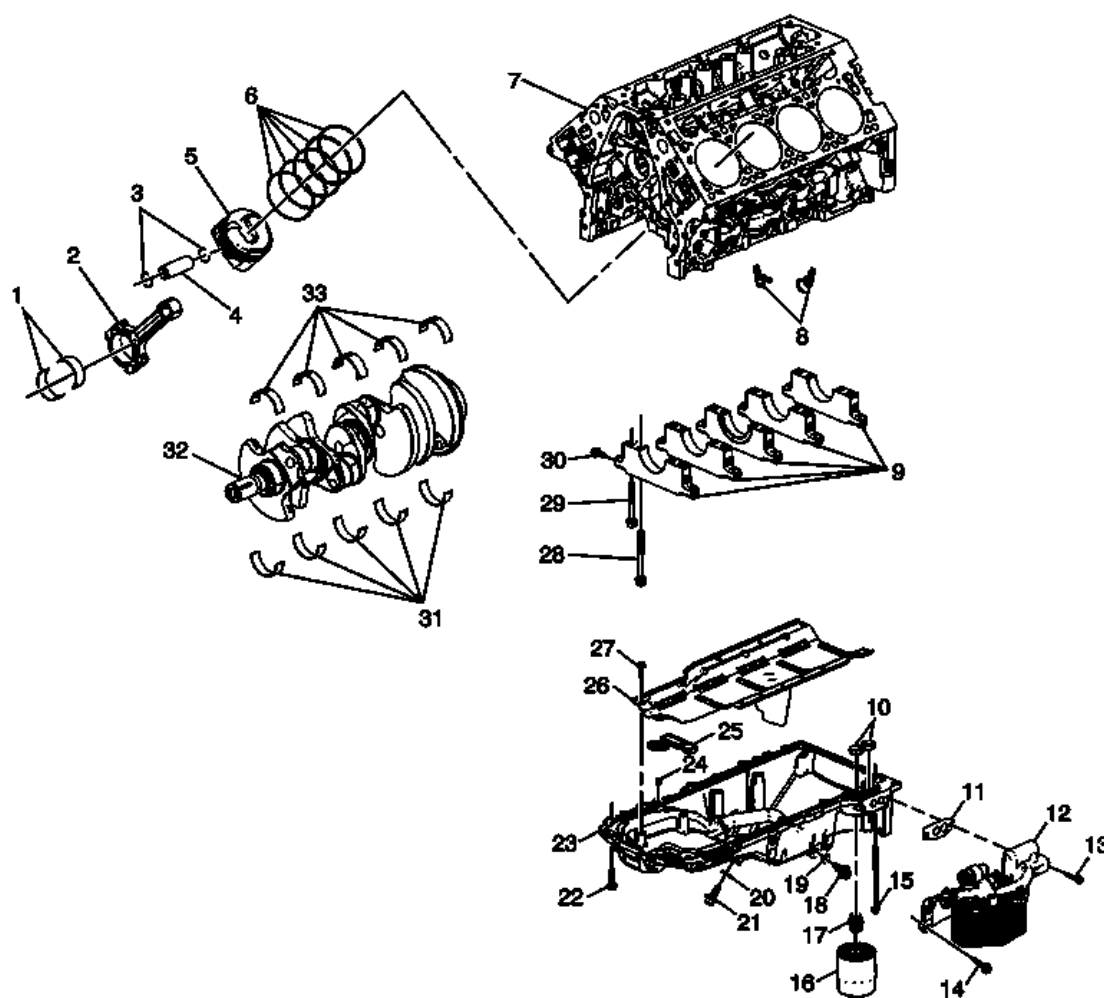


Fig. 12: Exploded View Of Lower Engine and Components

Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Connecting Rod Bushing
2	Connecting Rod Assembly
3	Piston Pin Retainer
4	Piston Pin
5	Piston
6	Piston Ring Set
7	Engine Block Assembly
8	Piston Oil Nozzle Assembly
9	Crankshaft Bearing Cap
10	Oil Pan High Pressure Port Seal
11	Engine Oil Cooler Gasket
12	Engine Oil Cooler
13	Engine Oil Cooler Bolt
14	Engine Oil Cooler Bolt
15	Oil Pan Bolt
16	Oil Filter
17	Oil Filter Fitting
18	Oil Pan Drain Plug
19	Oil Pan Drain Plug Seal
20	Oil Pan Drain Plug Seal
21	Oil Pan Drain Plug
22	Oil Pan Bolt
23	Oil Pan
24	Oil Pan Locating Pin
25	Oil Pan Front Seal
26	Crankshaft Oil Deflector
27	Crankshaft Oil Deflector Bolt
28	Crankshaft Bearing Cap Bolt - Inner
29	Crankshaft Bearing Cap Bolt - Outer
30	Crankshaft Bearing Cap Bolt - Side
31	Crankshaft Lower Bearing
32	Crankshaft Assembly
33	Crankshaft Upper Bearing

Rear of Engine

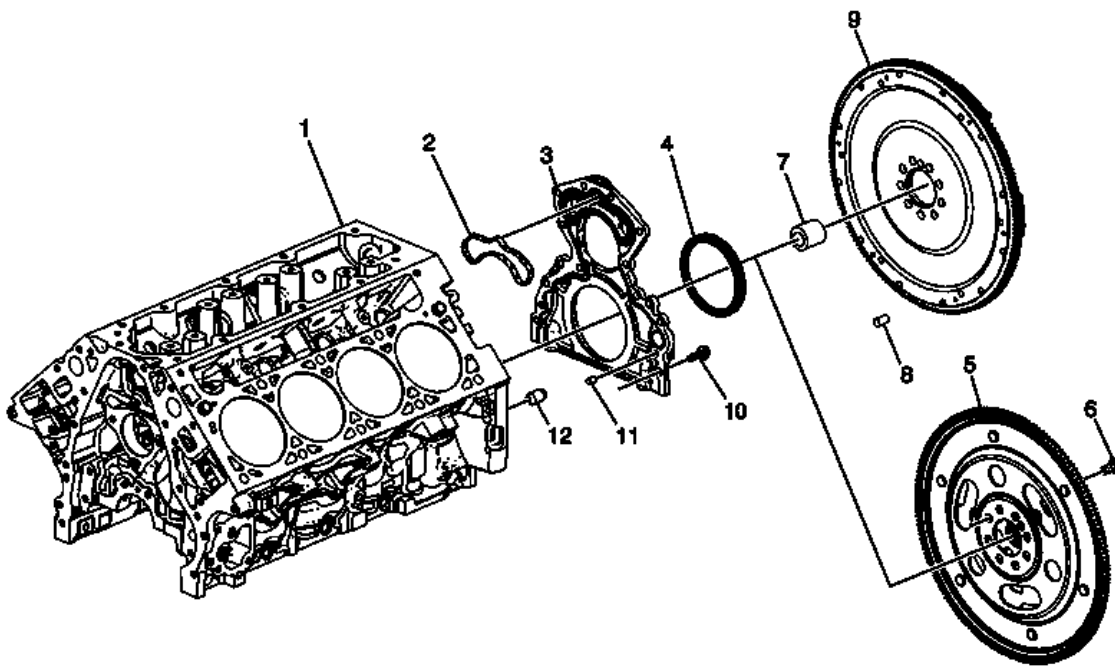


Fig. 13: Exploded View Of Rear of Engine
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Engine Block
2	Crankshaft Rear Oil Seal Housing Gasket
3	Crankshaft Rear Oil Seal Housing
4	Crankshaft Rear Oil Seal
5	Automatic Transmission Flex Plate
6	Automatic Transmission Flex Plate Bolt
7	Transmission Pilot Bearing - Manual Transmission
8	Balance Weight - Flywheel - Manual Transmission
9	Flywheel - Manual Transmission
10	Crankshaft Rear Oil Seal Housing Bolt
11	Crankshaft Rear Oil Seal Housing Locating Pin
12	Transmission Locating Pin

Oil Pump Assembly (with Z52 option)

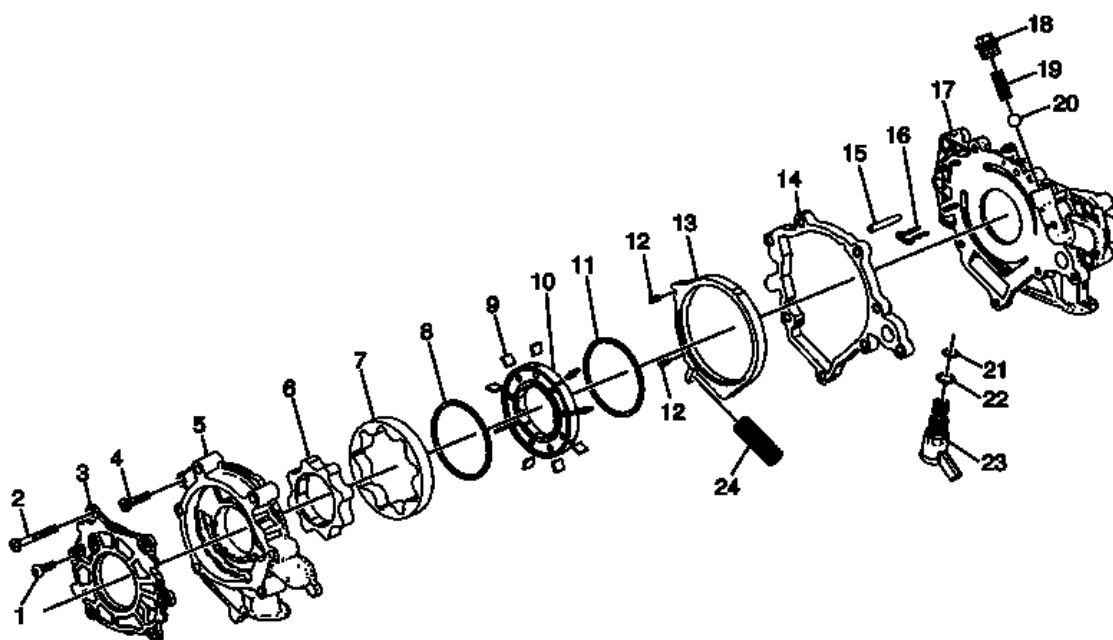


Fig. 14: Exploded View Of Oil Pump Assembly (with Z52 option)
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Oil Pump Cover Bolt
2	Oil Pump Cover Bolt
3	Oil Pump Cover
4	Second Oil Pump Housing Bolt
5	Second Oil Pump Housing
6	Oil Pump Gear - Drive
7	Oil pump Gear - Driven
8	Oil Pump Vane Ring
9	Oil Pump Vane
10	Oil Pump Vane Rotor
11	Oil Pump Vane Ring
12	Oil Pump Slide Seal
13	Oil Pump Slide
14	Oil Pump Intermediate Housing
15	Oil Pump Slide Pivot Pin
16	Oil Pump Flow Control Solenoid Retainer
17	Oil Pump Housing
18	Oil Pressure Relief Valve Bore Plug
19	Oil Pressure Relief Valve Spring

20	Oil Pressure Relief Valve
21	Oil Pump Flow Control Solenoid O-ring
22	Oil Pump Flow Control Solenoid O-ring
23	Oil Pump Flow Control Solenoid
24	Oil Pump Slide Spring

Intake Manifold and Components

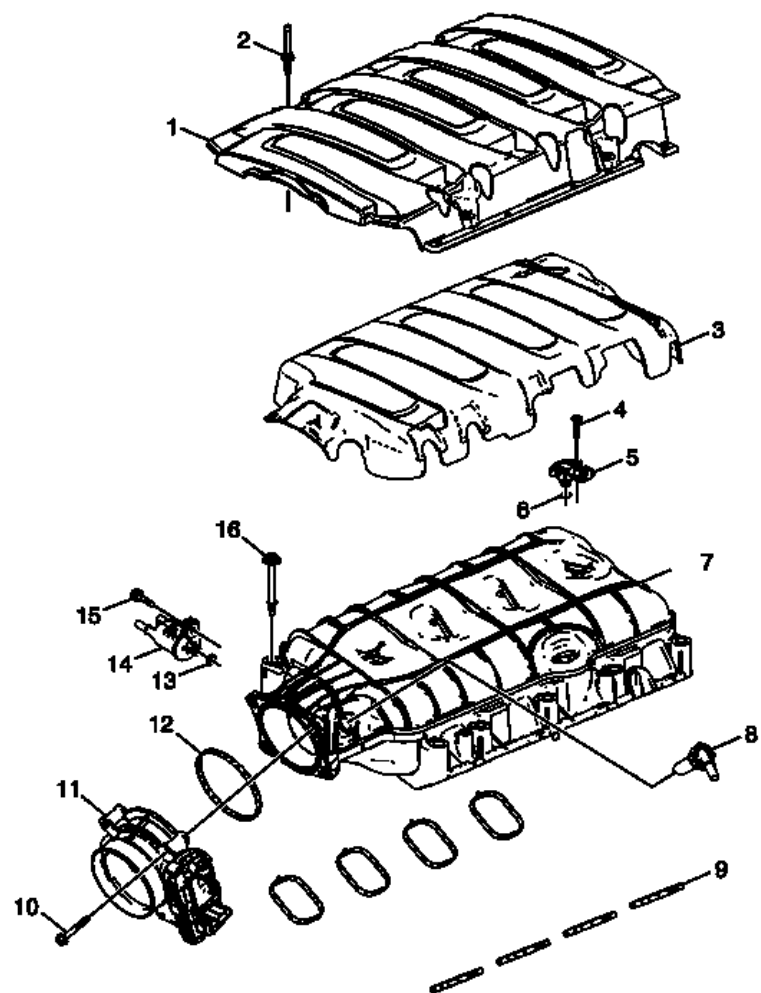


Fig. 15: Exploded View Of Intake Manifold and Components
 Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Intake Manifold Cover Assembly
2	Intake Manifold Cover Stud
3	Intake Manifold Cover Insulator
4	MAP Sensor Bolt
5	MAP Sensor

6	MAP Sensor Seal
7	Intake Manifold Assembly
8	PCV Fitting
9	Intake Manifold Gasket
10	Throttle Body Bolt
11	Throttle Body Assembly
12	Throttle Body Gasket
13	EVAP Emission Canister Purge Valve Seal
14	EVAP Emission Canister Purge Valve
15	EVAP Emission Canister Purge Valve Bolt
16	Intake Manifold Bolt

Engine Block Plugs/Sensors

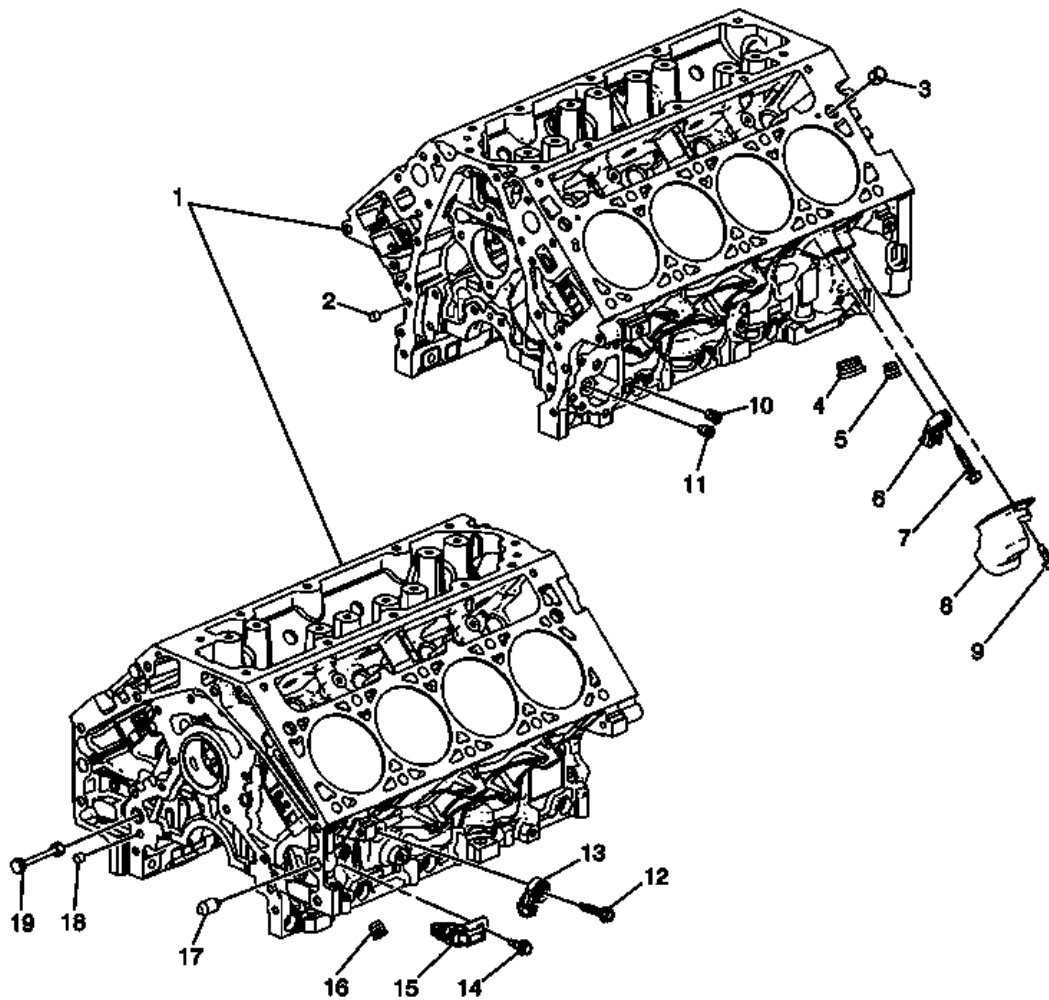


Fig. 16: Exploded View Of Engine Block Plugs/Sensors
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Engine Block
2	Engine Front Cover Locating Pin
3	Cylinder Head Locating Pin
4	Engine Block Plug
5	Engine Block Plug
6	Knock Sensor Assembly
7	Knock Sensor Bolt
8	Knock Sensor Shield
9	Knock Sensor Shield Bolt
10	Engine Block Oil Gallery Plug
10	Engine Block Oil Gallery Plug
12	Knock Sensor Bolt
13	Knock Sensor Assembly
14	Crankshaft Position Sensor Bolt
15	Crankshaft Position Sensor Assembly
16	Engine Block Plug
17	Transmission Locating Pin
18	Crankshaft Rear Oil Housing Locating Pin
19	Engine Block Oil Gallery Plug

Engine Oil Tank Assembly

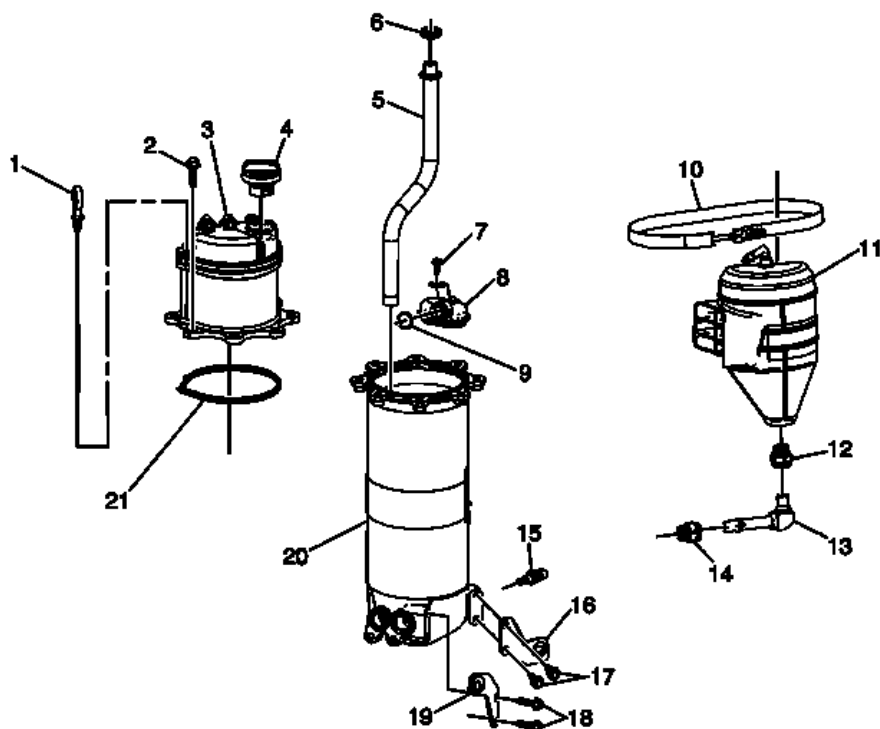


Fig. 17: Exploded View Of Engine Oil Tank Assembly
Courtesy of GENERAL MOTORS COMPANY

Callout	Component Name
1	Oil Level Indicator
2	Engine Oil Tank Bolt
3	Engine Oil Tank (Upper)
4	Oil Filler Cap
5	Oil Transfer Tube
6	Engine Oil/Air Separator Seal
7	Oil Pump Screen Bolt
8	Oil Pump Screen
9	Oil Pump Screen O-ring
10	Engine Oil Tank Clamp
11	Engine Oil Tank (Auxiliary)
12	Oil Pump Suction Pipe Fitting
13	Oil Transfer Tube
14	Oil Pump Suction Pipe Fitting
15	Engine Oil Temperature Gauge Sensor
16	Bracket
17	Bracket Bolt
18	Bracket Bolt
19	Bracket
20	Engine Oil Tank (Lower Tank)
21	Engine Oil Tank Gasket

ENGINE IDENTIFICATION

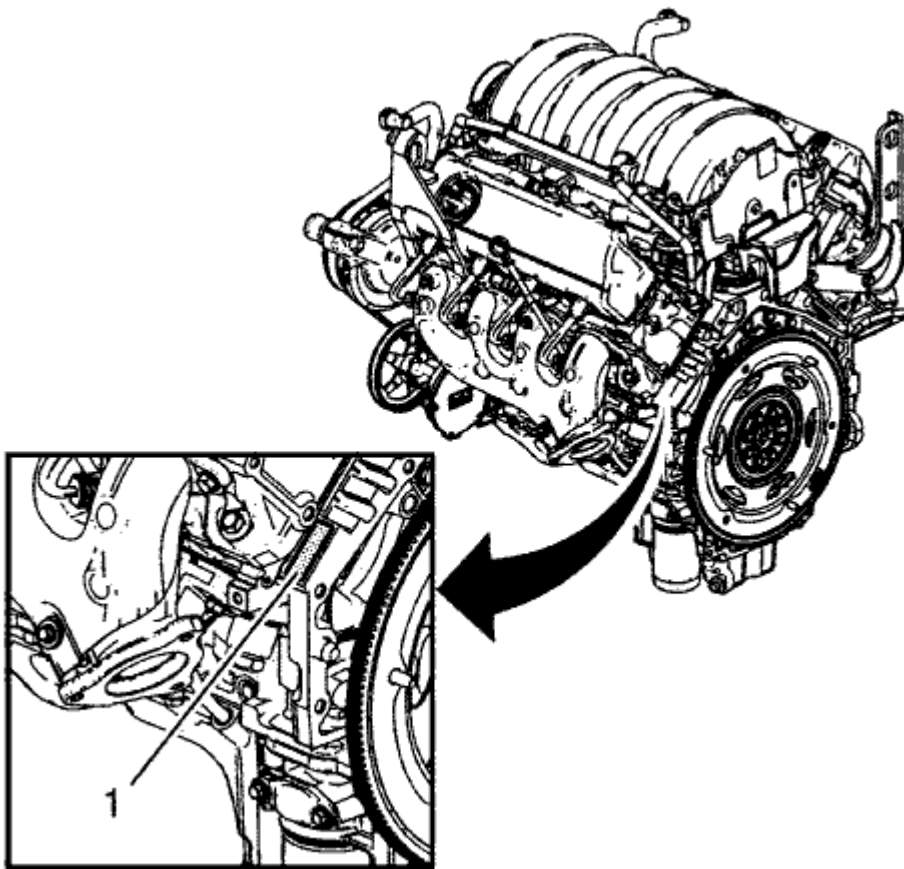


Fig. 18: Vehicle Identification Number (VIN)
Courtesy of GENERAL MOTORS COMPANY

The vehicle identification number (VIN) is located on the left side rear of the engine block (1) and is typically a 9 digit number stamped or laser-etched onto the engine at the vehicle assembly plant.

- The first digit identifies the division.
- The second digit identifies the model year.
- The third digit identifies the assembly plant.
- The fourth through ninth digits are the last 6 digits of the VIN.