

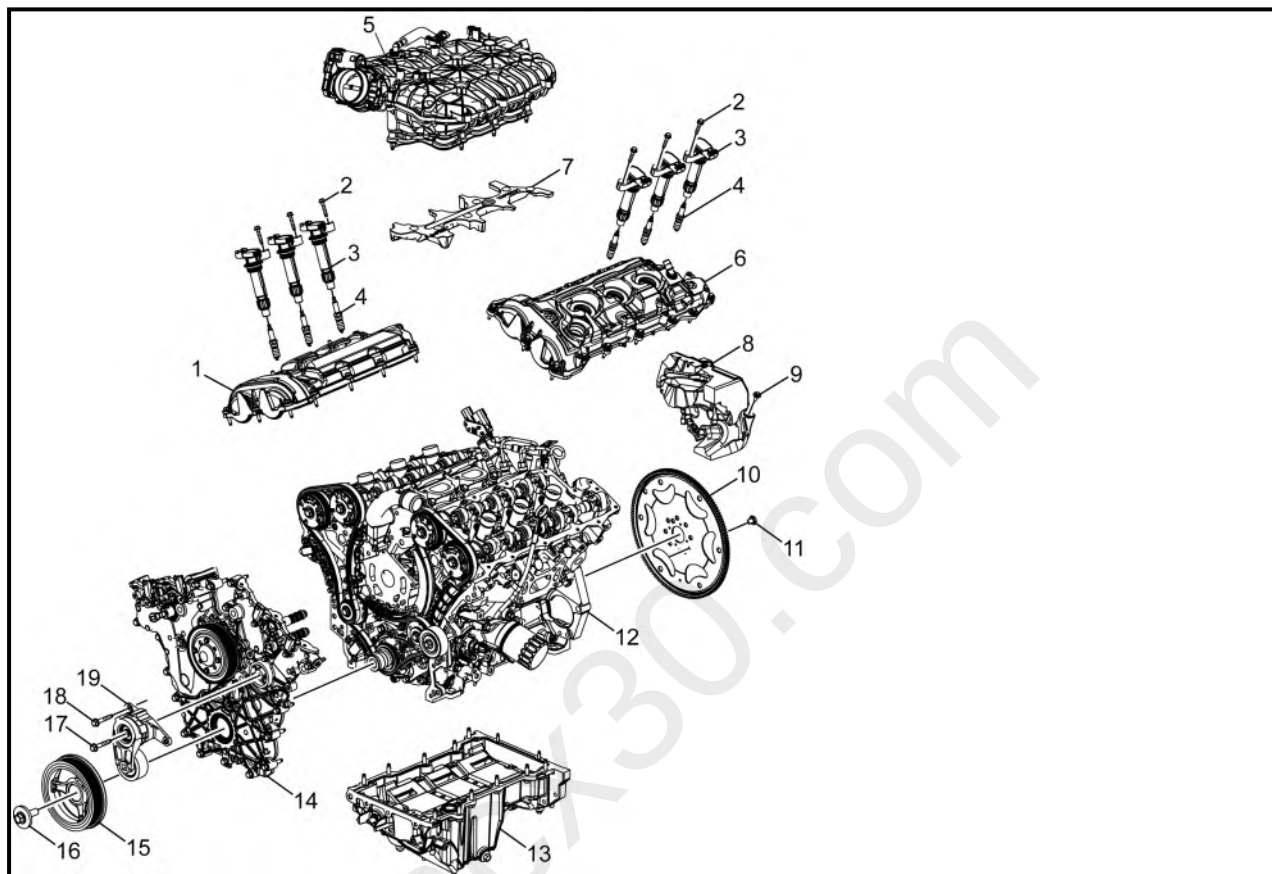
2018 ENGINE

Engine Mechanical - 3.6L (LFY) - Component Locator

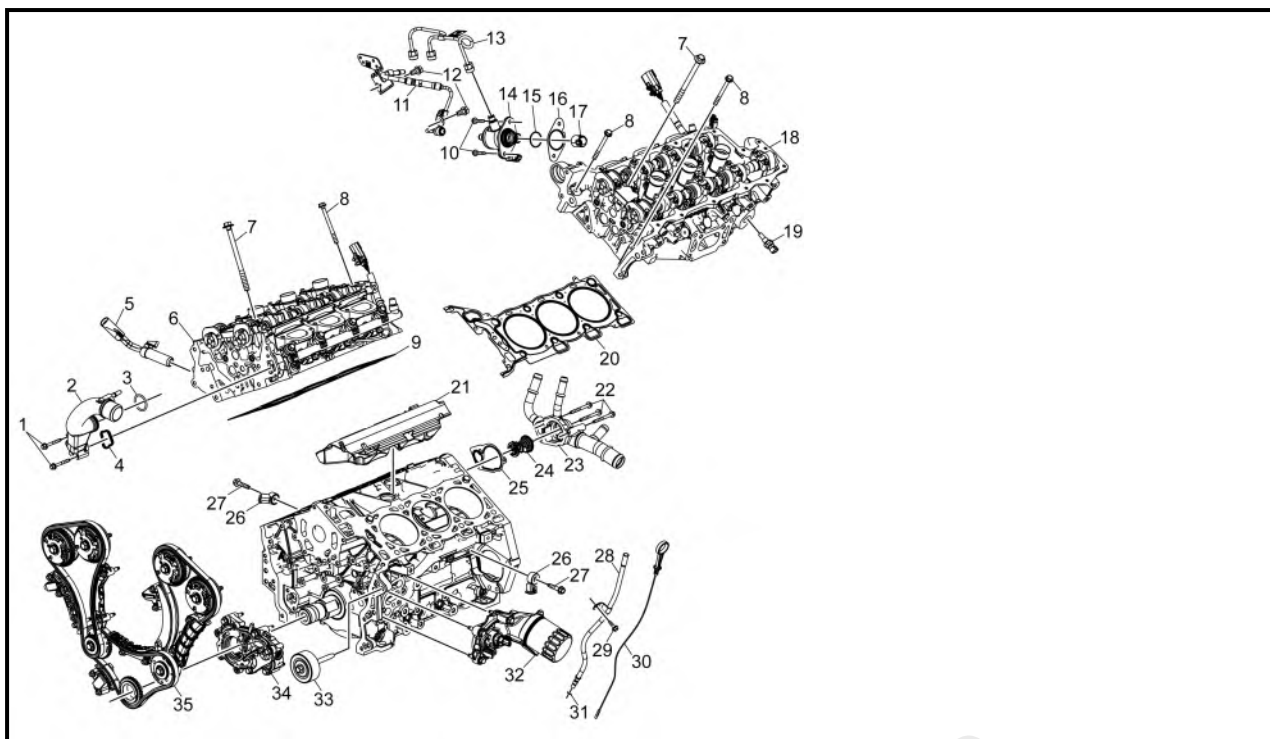
COMPONENT LOCATOR

DISASSEMBLED / EXPLODED VIEWS

Engine Covers and Component Assemblies (1 of 2)



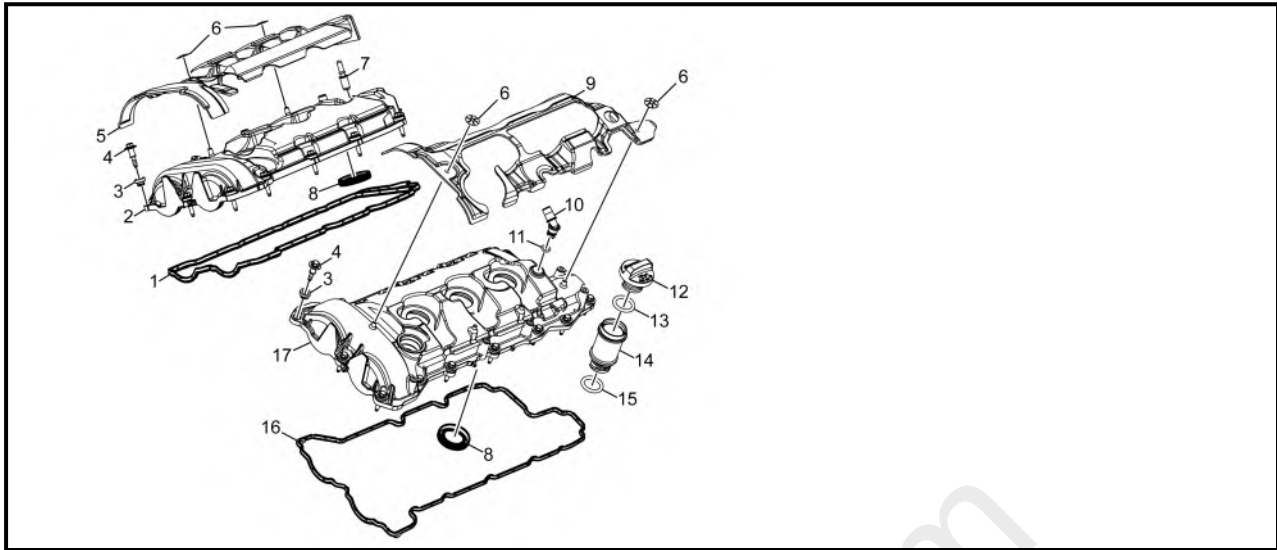
Callout	Component Name
1	Camshaft Cover - Right Side
2	Ignition Coil Bolt
3	Ignition Coil
4	Spark Plug
5	Intake Manifold
6	Camshaft Cover - Left Side
7	Fuel Injection Fuel Rail Noise Shield
8	Engine Rear Noise Shield
9	Engine Rear Noise Shield Bolt
10	Engine Flywheel
11	Engine Flywheel Bolt
12	Engine Assembly
13	Oil Pan
14	Engine Front Cover
15	Crankshaft Balancer
16	Crankshaft Balancer Bolt
17	Drive Belt Tensioner Bolt
18	Engine Front Cover Bolt
19	Drive Belt Tensioner



Callout	Component Name
1	Water Outlet Bolt
2	Water Outlet
3	Water Outlet O-Ring Seal
4	Water Outlet Seal
5	Engine Coolant Heater
6	Right Side Cylinder Head Assembly
7	Cylinder Head Bolt
8	Cylinder Head Bolt
9	Right SideCylinder Head Gasket
10	Fuel Pump Bolt
11	Fuel Feed Pipe
12	Fuel Feed Pipe Bracket Bolt
13	Fuel Feed Intermediate Pipe
14	Fuel Pump
15	Fuel Pump O-Ring
16	Fuel Pump Bracket Gasket
17	Valve Lifter Follower
18	Left Side Cylinder Head AssemblyEngine Cooling Thermostat Housing Bolt - Long
19	Engine Coolant Temperature Sensor
20	Left SideCylinder Head Gasket
21	Engine Compartment Lower Noise Shield
22	Engine Coolant Thermostat Housing Bolt
23	Engine Coolant Thermostat Housing
24	Engine Coolant Thermostat
25	Engine Coolant Thermostat Housing Gasket
26	Knock Sensor
27	Knock Sensor Bolt
28	Oil Level Indicator Tube
29	Oil Level Indicator Tube Bolt
30	Oil Level Indicator
31	Oil Level Indicator Tube O-Ring
32	
33	
34	
35	

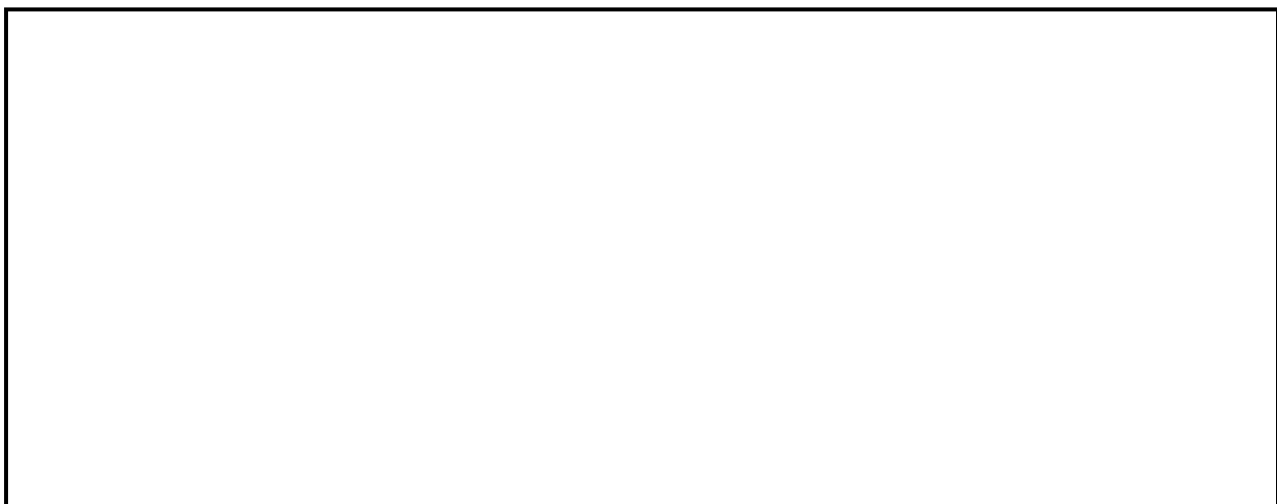
Callout	Component Name
32	Oil Filter Adapter
33	Idler Pulley
34	Oil Pump Assembly
35	Timing Drive Assembly

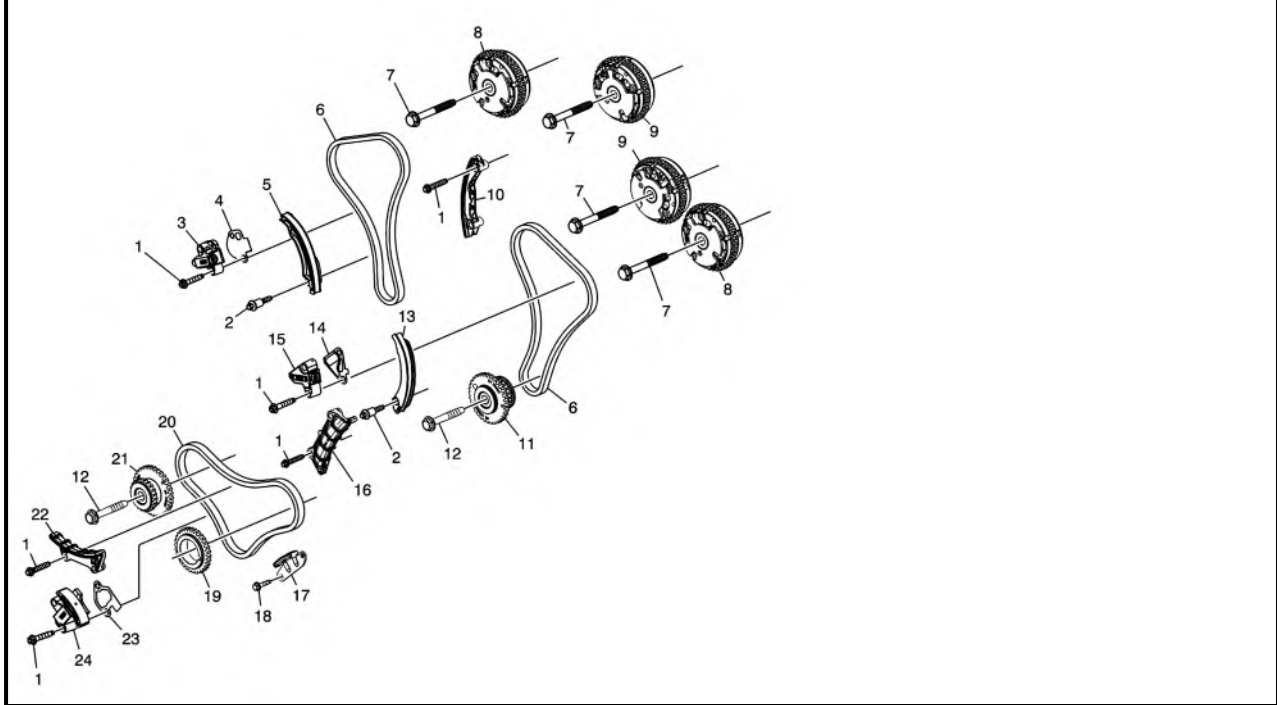
Camshaft Cover and Components



Callout	Component Name
1	Camshaft Cover Seal-Right Side
2	Camshaft Cover - Right Side
3	Camshaft Cover Bolt Insulator
4	Camshaft Cover Bolt
5	Camshaft Housing Cover Insulator-Right Side
6	Camshaft Cover Nut
7	Positive Crankcase Ventilation Hose Fitting
8	Spark Plug Shield Seal
9	Camshaft Housing Cover Insulator-Left Side
10	Positive Crankcase Ventilation Hose Fitting
11	Positive Crankcase Ventilation Hose Fitting Seal
12	Oil Filler Cap
13	Oil Filler Cap Seal
14	Oil Filler Tube
15	Oil Filler Cap Tube Seal
16	Camshaft Cover Seal-Left Side
17	Camshaft Cover - Left Side

Camshaft Timing Components

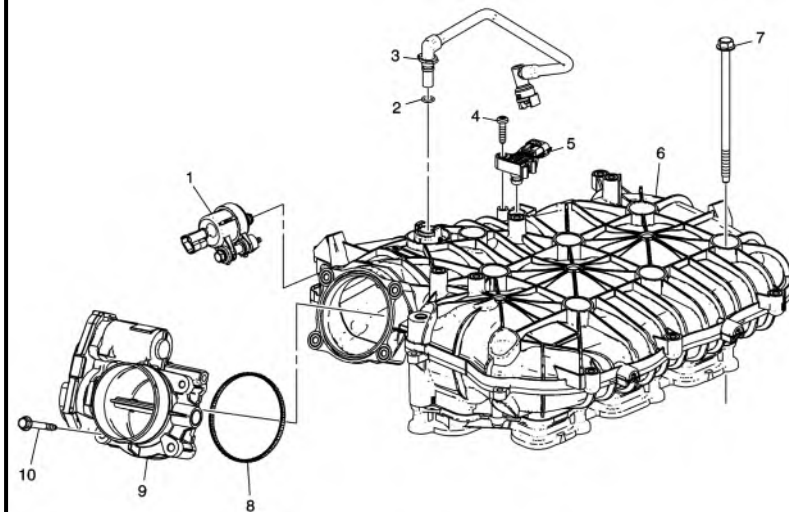




Callout	Component Name
1	Right Secondary Timing Chain Tensioner Bolt
2	Right Secondary Timing Chain Guide Bolt
3	Right Secondary Timing Chain Tensioner
4	Right Timing Chain Housing Gasket
5	Right Secondary Timing Chain Guide
6	Secondary Camshaft Intermediate Drive Chain
7	Camshaft Position Actuator Bolt
8	Exhaust Camshaft Position Actuator
9	Intake Camshaft Position Actuator
10	Right Pivot Arm Timing Chain Guide
11	Left Camshaft Timing Chain Idler Sprocket
12	Timing Chain Idler Sprocket Shaft Bolt
13	Left Pivot Arm Timing Chain Guide
14	Left Timing Chain Housing Gasket
15	Left Secondary Timing Chain Tensioner
16	Left Secondary Timing Chain Guide
17	Lower Primary Timing Chain Guide
18	Lower Primary Timing Chain Guide Bolt
19	Crankshaft Sprocket
20	Primary Timing Chain
21	Right Camshaft Timing Chain Idler Sprocket
22	Upper Primary Timing Chain Guide
23	Timing Chain Housing Gasket
24	Camshaft Intermediate Drive Chain Tensioner

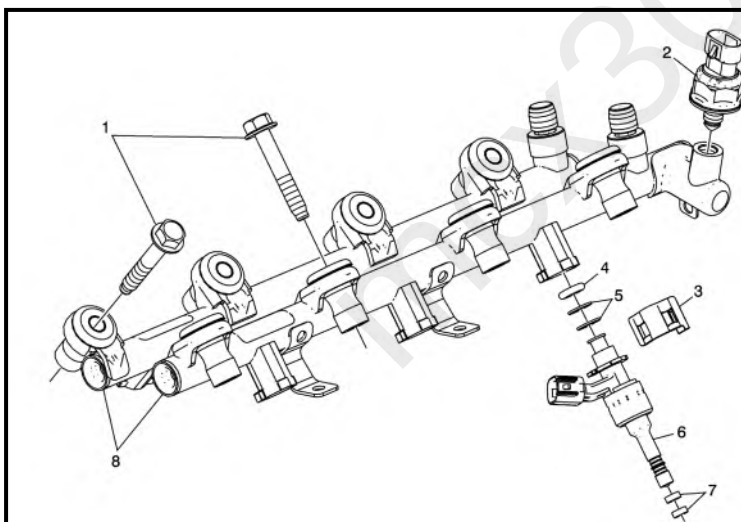
Intake Manifold





Callout	Component Name
1	EVAP Solenoid
2	PCV Tube O-ring Seal
3	PCV Tube
4	MAP Sensor Bolt
5	MAP Sensor
6	Upper Intake Manifold
7	Upper Intake Manifold Bolt
8	Throttle Body Gasket
9	Throttle Body
10	Throttle Body Bolt

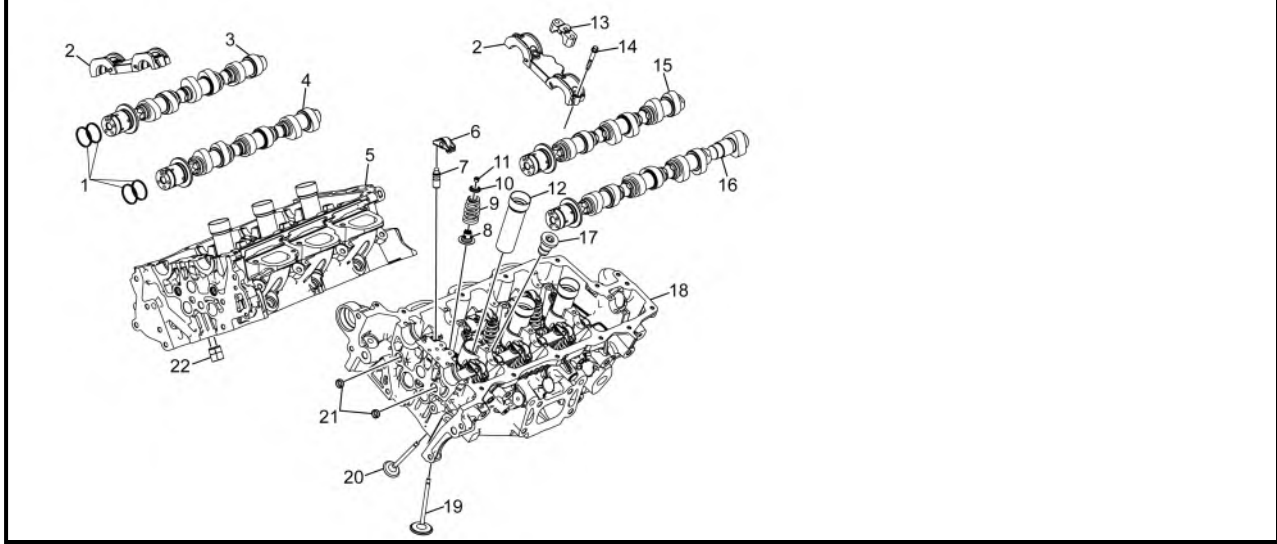
Fuel Rail



Callout	Component Name
1	Fuel Rail Bolt
2	Fuel Pressure Sensor
3	Fuel Injector Retainer
4	Fuel Injector O-ring Seal
5	Fuel Injector Spacer
6	Fuel Injector
7	Fuel Injector Teflon Seal
8	Fuel Rail

Cylinder Head Assemblies

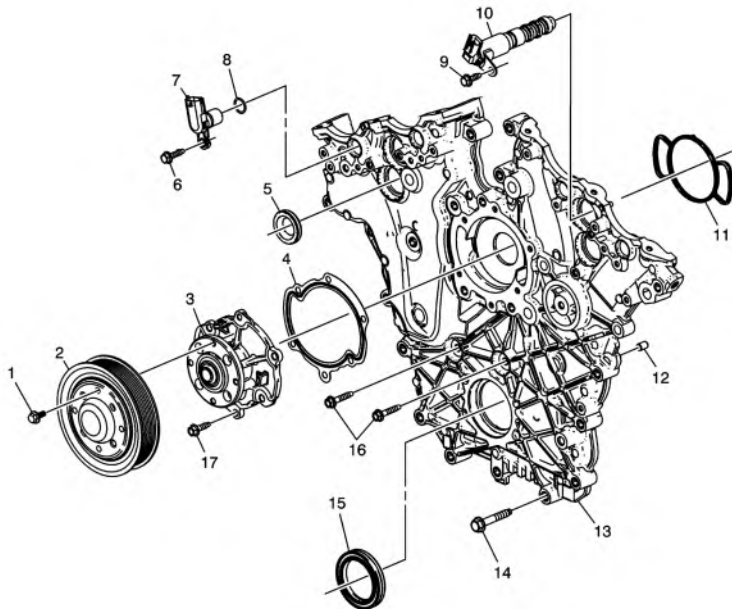




Callout	Component Name
1	Camshaft Oil Seal Ring
2	Camshaft Bearing Front Cap
3	Intake Camshaft - Right Side
4	Exhaust Camshaft - Right Side
5	Cylinder Head - Right Side
6	Valve Rocker Arm
7	Hydraulic Valve Lash Adjuster
8	Valve Stem Oil Seal
9	Valve Spring
10	Valve Spring Cap
11	Valve Stem Key
12	Spark Plug Wire Sleeve
13	Camshaft Bearing Cap
14	Camshaft Bearing Cap Bolt
15	Intake Camshaft - Left Side
16	Exhaust Camshaft - Left Side
17	Cylinder Head Water Jacket Hole Plug
18	Cylinder Head - Left Side
19	Intake Valve
20	Exhaust Valve
21	Engine Block Oil Gallery Plug
22	Engine Oil Manifold Check Valve

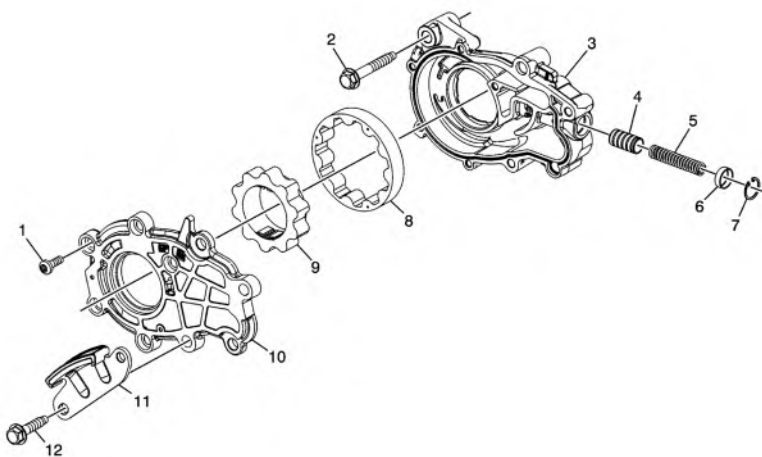
Engine Front Cover





Callout	Component Name
1	Water Pump Pulley Bolt
2	Water Pump Pulley
3	Water Pump
4	Water Pump Gasket
5	Camshaft Position Actuator Solenoid Valve Seal
6	Camshaft Position Sensor Bolt
7	Camshaft Position Sensor
8	Camshaft Position Sensor Seal Ring
9	Camshaft Position Actuator Solenoid Valve Bolt
10	Camshaft Position Actuator Solenoid Valve
11	Engine Front Cover Gasket
12	Engine Front Cover Locating Pin
13	Engine Front Cover
14	Engine Front Cover Bolt
15	Crankshaft Front Oil Seal
16	Engine Front Cover Bolt
17	Water Pump Bolt

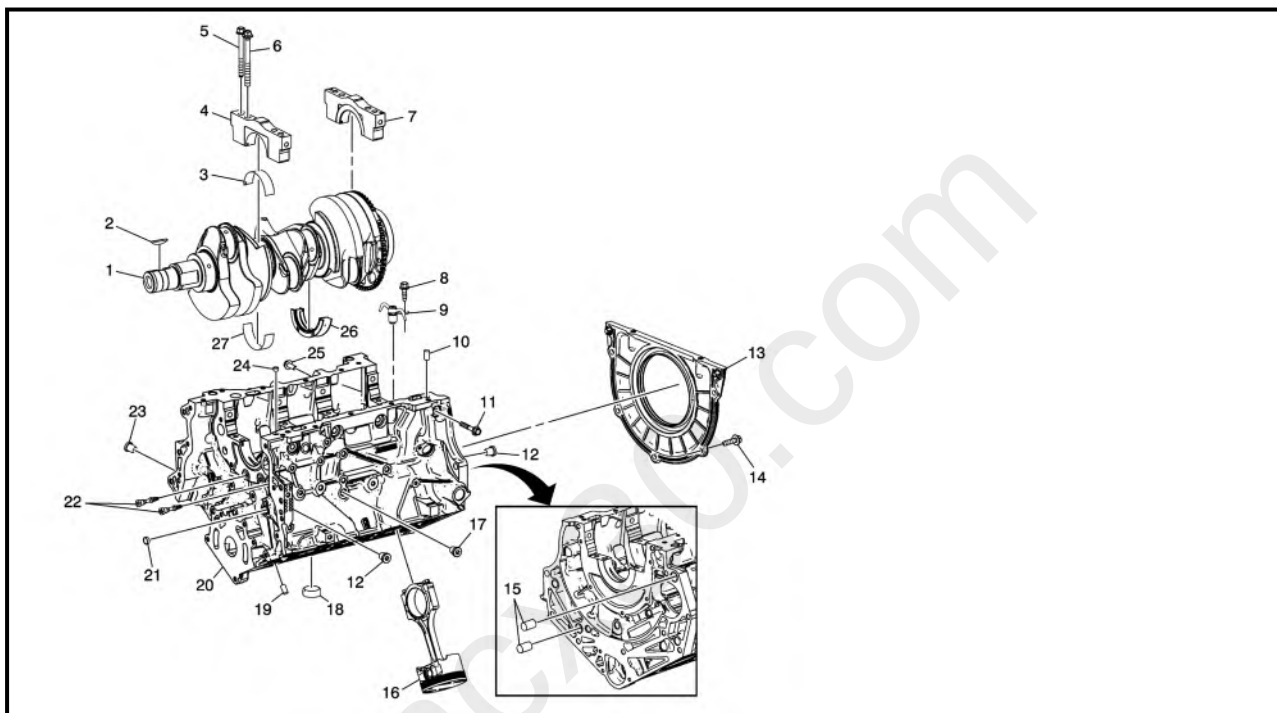
Oil Pump



Callout	Component Name
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Callout	Component Name
1	Oil Pump Cover Bolt
2	Oil Pump Bolt
3	Oil Pump Housing
4	Oil Pressure Relief Valve
5	Oil Pressure Relief Valve Spring
6	Oil Pressure Relief Valve Bore Plug
7	Oil Pressure Relief Valve Bore Plug Retainer Clip
8	Oil Pump Driven Gear
9	Oil Pump Drive Gear
10	Oil Pump Cover
11	Lower Primary Timing Chain Guide
12	Lower Primary Timing Chain Guide Bolt

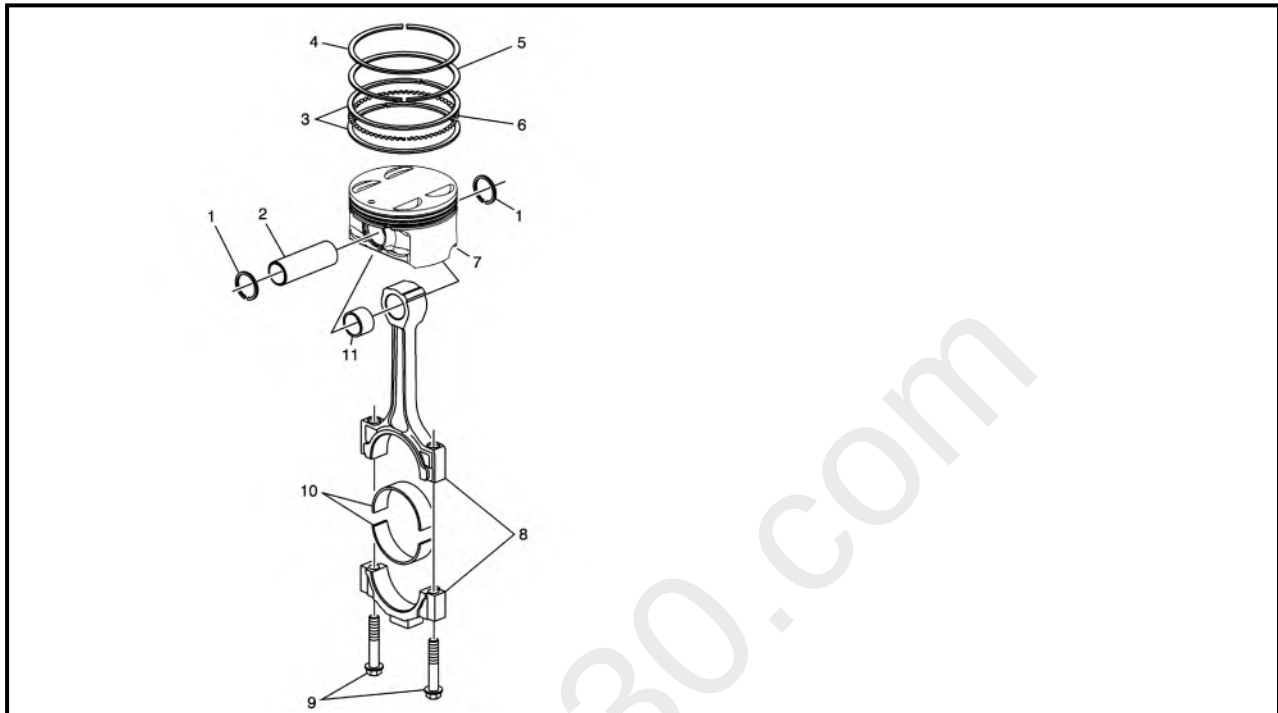
Engine Block Assembly



Callout	Component Name
1	Crankshaft
2	Crankshaft Key
3	Crankshaft Lower Bearing
4	Crankshaft Bearing Cap
5	Crankshaft Bearing Cap Outboard Bolt
6	Crankshaft Bearing Cap Inboard Bolt
7	Crankshaft Bearing Thrust Cap
8	Piston Oil Nozzle Bolt
9	Piston Oil Nozzle
10	Oil Pan Locating Pin
11	Crankshaft Bearing Cap Side Bolt - Long
12	Engine Block Oil Gallery Threaded Plug - 14 mm
13	Crankshaft Rear Oil Seal Housing Assembly
14	Crankshaft Rear Oil Seal Housing Assembly Bolt
15	Transaxle Locating Pin
16	Piston and Connecting Rod Assembly
17	Engine Block Coolant Drain Threaded Plug - 14 mm
18	Engine Block Core Coolant Expansion Plug - 34.3 mm
19	Cylinder Head Locating Pin

Callout	Component Name
20	Engine Block
21	Engine Block Oil Gallery Expansion Plug - 14 mm
22	Engine Front Cover Stud
23	Engine Block Oil Gallery Threaded Plug - 20 mm
24	Engine Block Oil Gallery Expansion Plug - 10 mm
25	Crankshaft Bearing Cap Side Bolt - Short
26	Crankshaft Upper Thrust Bearing #3
27	Crankshaft Upper Bearing

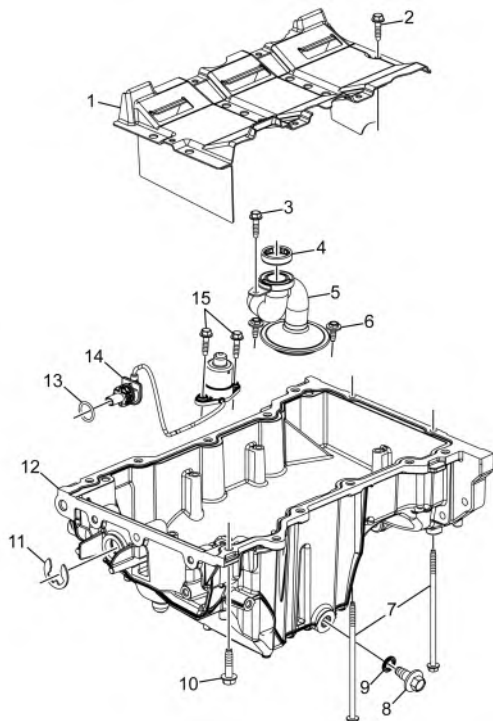
Piston, Rings, Bearing and Connecting Rod



Callout	Component Name
1	Piston Pin Retainer
2	Piston Pin
3	Piston Oil Control Rail Ring
4	Piston Upper Compression Ring
5	Piston Lower Compression Ring
6	Piston Oil Control Ring Spacer
7	Piston
8	Connecting Rod
9	Connecting Rod Bolt
10	Connecting Rod Bearing
11	Connecting Rod Bushing

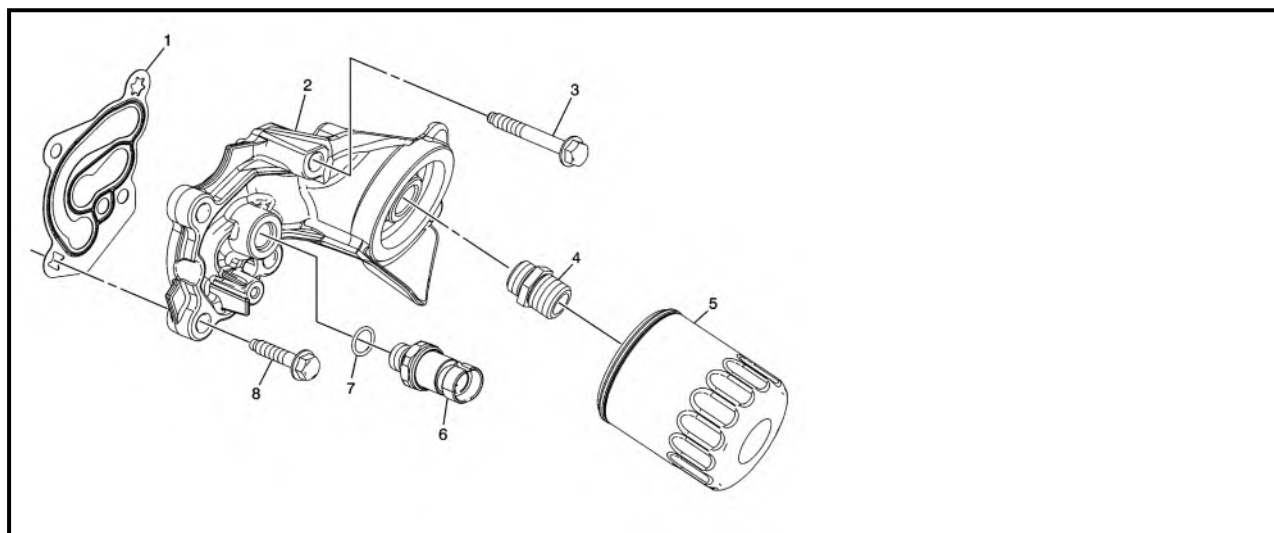
Oil Pan Assembly





Callout	Component Name
1	Oil Pan Baffle
2	Oil Pan Baffle Bolt
3	Oil Pump Suction Pipe Bolt
4	Oil Pump Suction Pipe Seal
5	Oil Pump Suction Pipe
6	Oil Pump Suction Pipe Bolt
7	Oil Pan Bolt - Long
8	Oil Pan Drain Plug
9	Oil Pan Drain Plug Seal
10	Oil Pan Bolt
11	Engine Oil Level Switch Clip
12	Oil Pan
13	Engine Oil Level Sensor Seal
14	Engine Oil Level Sensor
15	Engine Oil Level Sensor Bolt

Oil Filter Adapter



Callout	Component Name
1	Oil Filter Adapter Gasket
2	Oil Filter Adapter

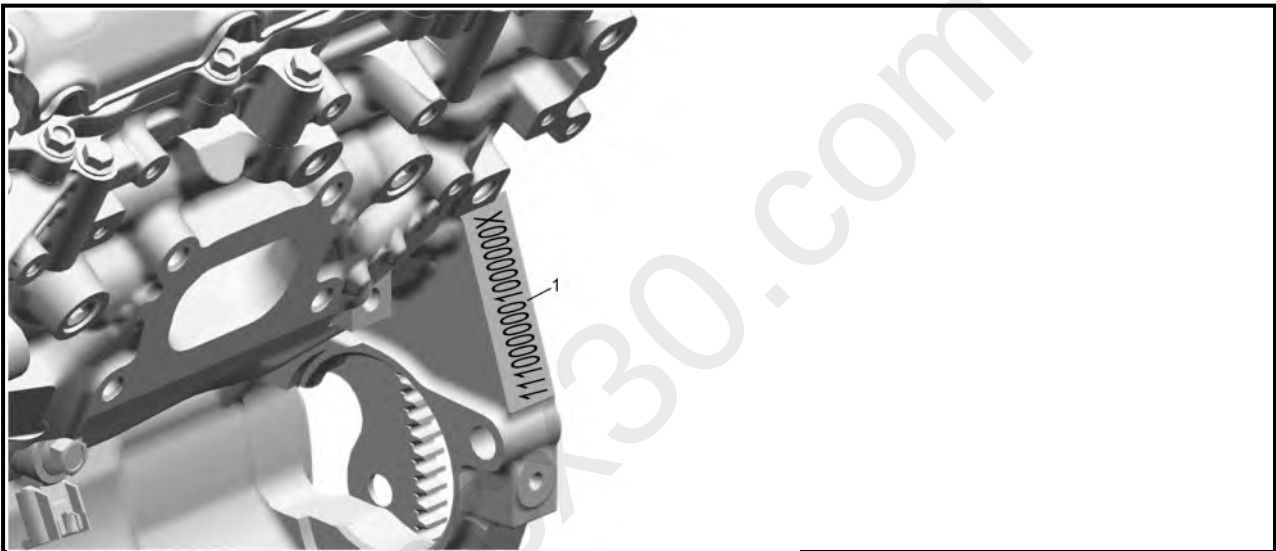
Callout	Component Name
3	Oil Filter Adapter Bolt - Long
4	Oil Filter Fitting
5	Oil Filter
6	Engine Oil Pressure Sensor
7	Engine Oil Pressure Sensor Seal
8	Oil Filter Adapter Bolt

ENGINE IDENTIFICATION

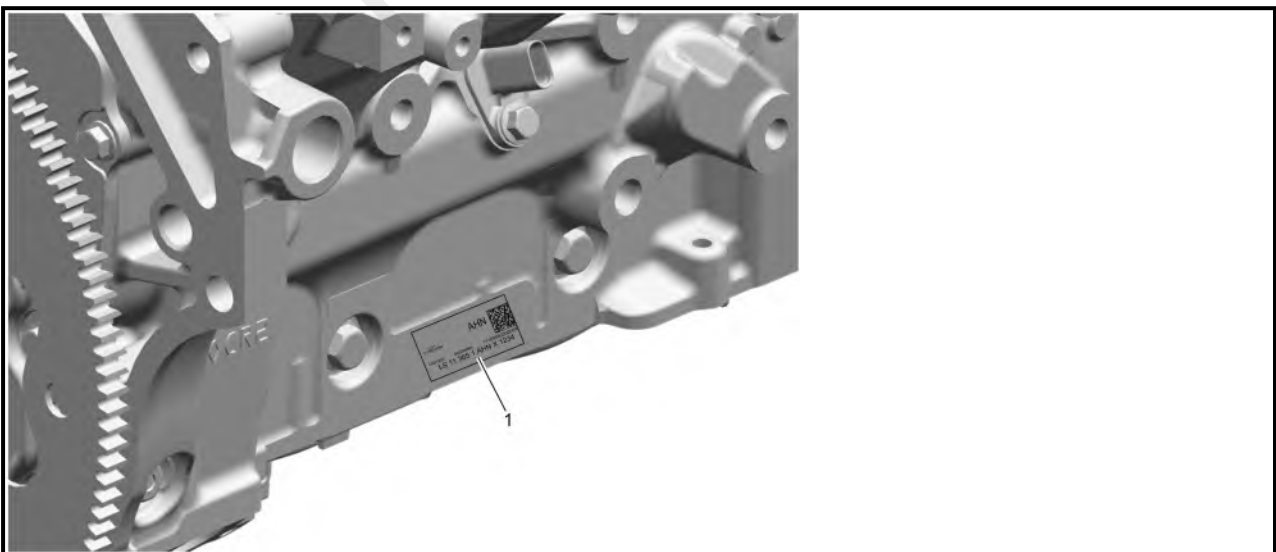
Vehicle Identification Number

The Vehicle Identification Number (VIN) Derivative is located in two places on the engine and is a nine digit number stamped or laser etched onto the block at the vehicle assembly plant. If reading the identification number the following information can be obtained:

- The first digit identifies the vehicle division.
- The second digit is 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).



The engine block is marked with the VIN on a pad area on the left rear side (1).

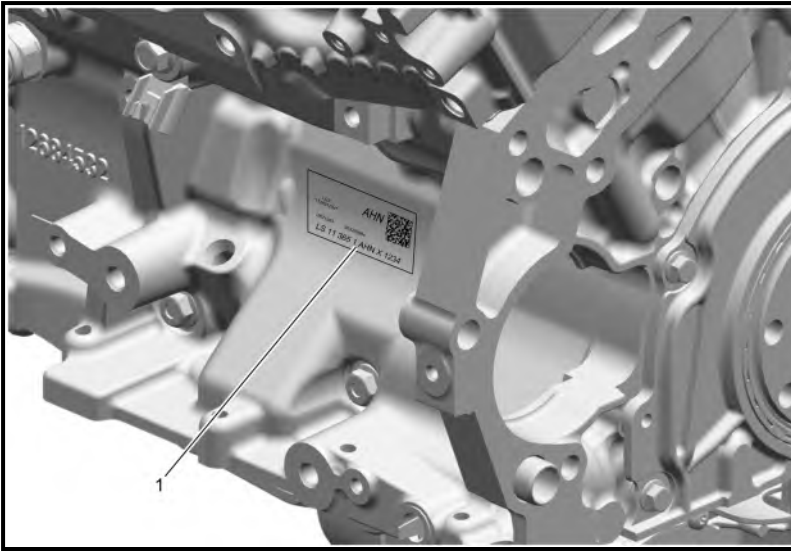


The engine block is marked with the VIN on a pad area on the center lower right side (1).

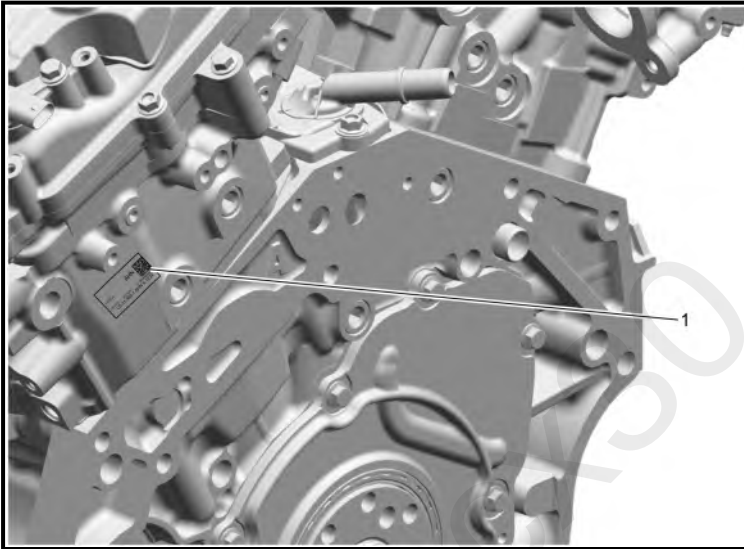
Engine Traceability Label

The engine traceability label is located in two places on the engine and consists of the broadcast code, bar code and sequence number. This label is used in engine and vehicle assembly plants and is not

intended to be permanent. If it is missing refer back to the engine block VIN pad for the permanent ID.



One engine traceability label (1) is located on the left rear side of the engine block. This label is used in engine and vehicle assembly plants and is not intended to be permanent. If it is missing refer back to the engine block VIN pad for the permanent ID.

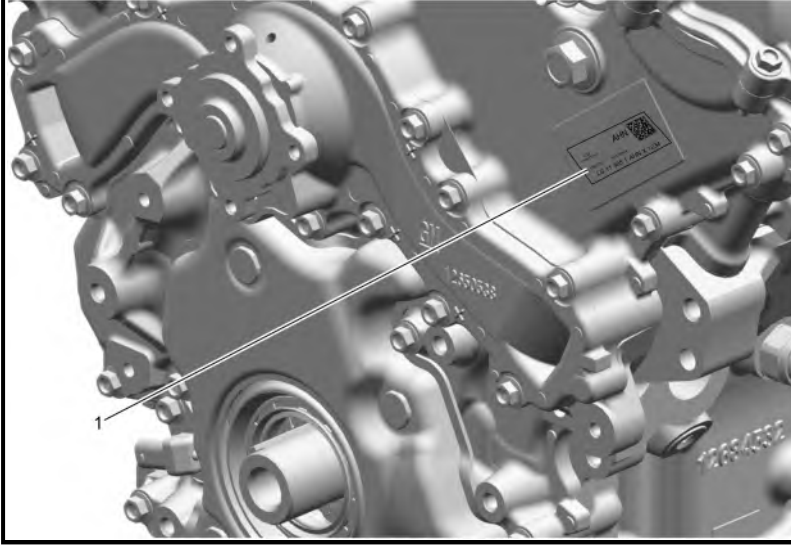


Another engine traceability label (1) is located on the rear of the left cylinder head. This label is used in engine and vehicle assembly plants and is not intended to be permanent. If it is missing refer back to the engine block VIN pad for the permanent ID.

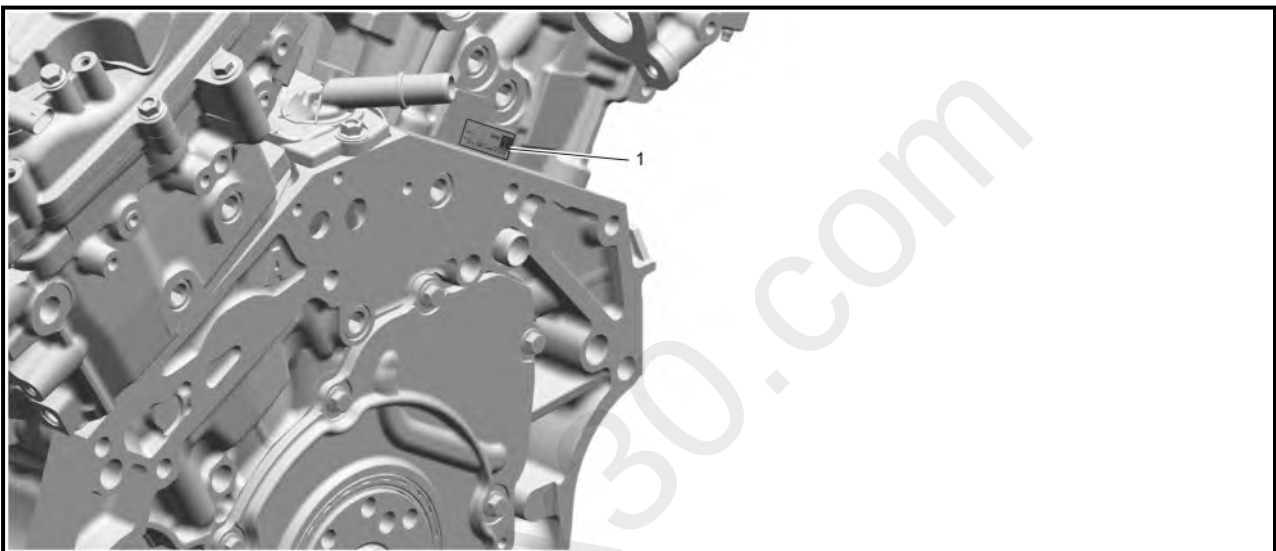
Engine Verification Label

The engine verification label is located in two places on the engine and consists of the broadcast code and bar code. This label is used in engine and vehicle assembly plants and is not intended to be permanent. If it is missing refer back to the engine block VIN pad for the permanent ID.





One engine verification label (1) is located on the left side of the engine front cover below the exhaust camshaft position sensor. This label is used in engine and vehicle assembly plants and is not intended to be permanent. If it is missing refer back to the engine block VIN pad for the permanent ID.



Another engine verification label (1) is located on the rear of the right cylinder head. This label is used in engine and vehicle assembly plants and is not intended to be permanent. If it is missing refer back to the engine block VIN pad for the permanent ID.
