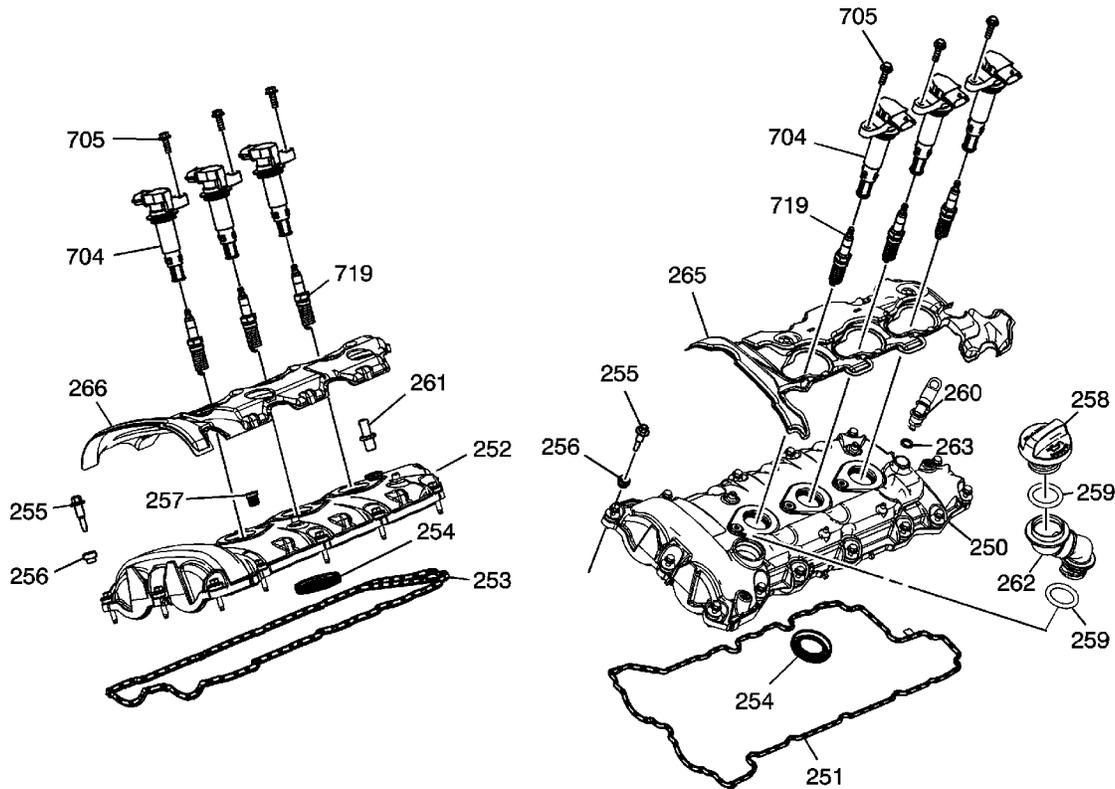


- (12) Left Exhaust Manifold Heat Shield Bolt
- (13) Left Exhaust Manifold Heat Shield
- (14) Left Exhaust Manifold
- (15) Cylinder Head Exhaust Manifold Bolt
- (16) Left Exhaust Manifold Gasket
- (17) Engine Assembly
- (18) Oil Pan Assembly
- (19) Engine Front Cover Assembly
- (20) Crankshaft Balancer
- (21) Crankshaft Balancer Bolt
- (22) Right Exhaust Manifold
- (23) Right Exhaust Manifold Gasket
- (24) Crankshaft Position Sensor Heat Shield Bolt - Large
- (25) Crankshaft Position Sensor Heat Shield
- (26) Crankshaft Position Sensor Heat Shield Bolt - Small

- (12) Coolant Pipe Bracket Bolt
- (13) Fuel Feed Pipe Assembly
- (14) Fuel Feed Pipe Assembly Bolt
- (15) Fuel Feed Intermediate Pipe Assembly
- (16) Fuel Pump O-ring Seal
- (17) Fuel Pump Gasket
- (18) Fuel Pump Bolt
- (19) Fuel Pump
- (20) Left Cylinder Head Assembly
- (21) Left Cylinder Head Gasket
- (22) Oil Level Indicator
- (23) Oil Level Indicator Handle O-ring
- (24) Oil Level Indicator Tube Bolt
- (25) Oil Level Indicator Tube O-ring
- (26) Oil Level Indicator Tube
- (27) Knock Sensor
- (28) Knock Sensor Bolt
- (29) Oil Filter Adapter Assembly
- (30) Engine Short Block Assembly
- (31) Oil Pump Assembly
- (32) Timing Drive Assembly
- (33) Crankshaft Position Sensor Bolt
- (34) Crankshaft Position Sensor
- (35) Crankshaft Position Sensor O-ring

Camshaft Cover Assembly

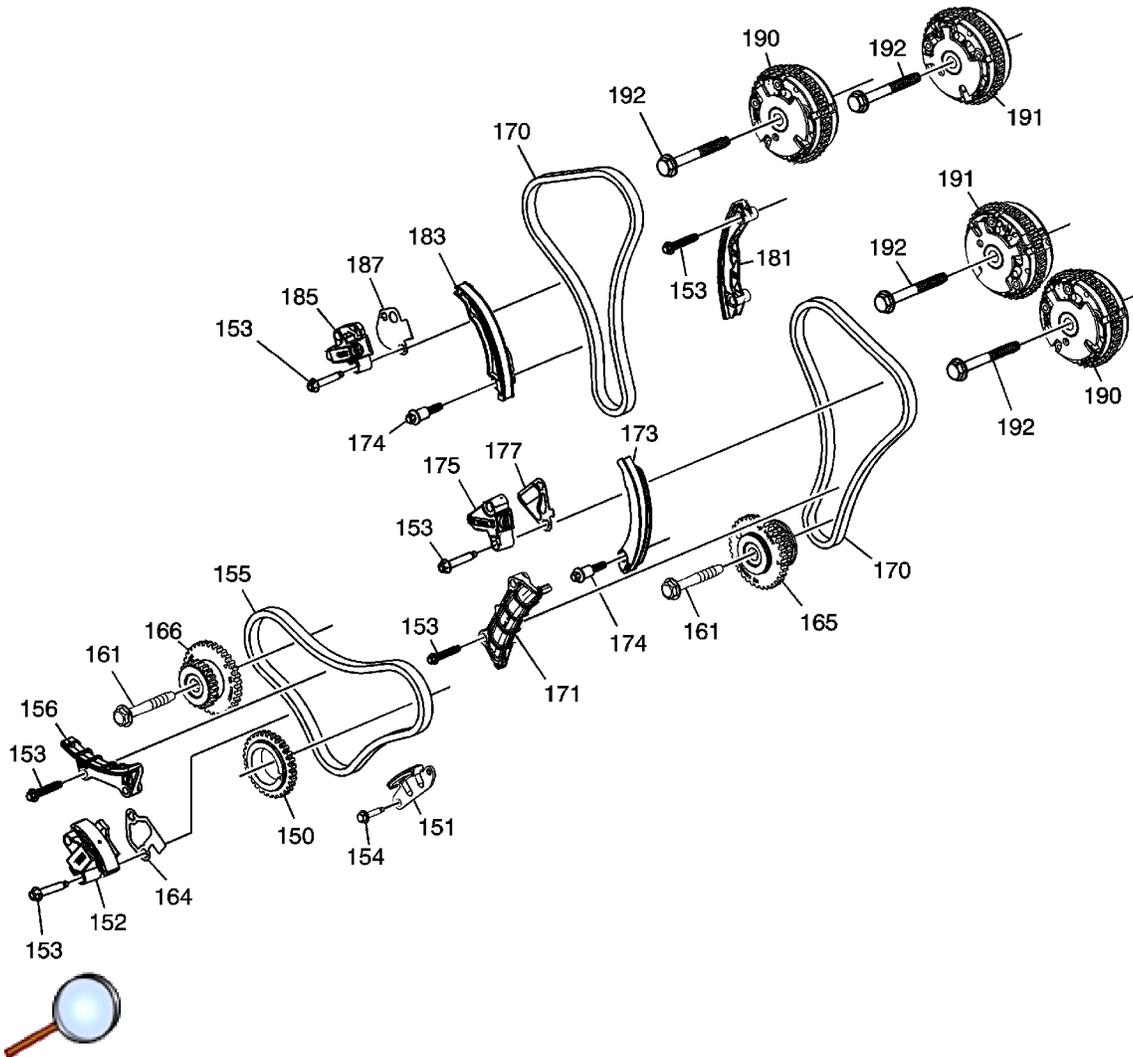


- (250) Left Camshaft Cover
- (251) Left Camshaft Cover Gasket
- (252) Right Camshaft Cover
- (253) Right Camshaft Cover Gasket
- (254) Camshaft Cover Spark Plug Port Seal
- (254) Camshaft Cover Spark Plug Port Seal
- (255) Camshaft Cover Bolt
- (255) Camshaft Cover Bolt
- (256) Camshaft Cover Bolt Insulator
- (256) Camshaft Cover Bolt Insulator
- (257) Ignition Coil Bolt Thread Insert

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- (258) Oil Fill Cap
- (259) Oil Fill O-ring
- (259) Oil Fill O-ring
- (260) Left Camshaft Cover PCV Fitting
- (261) Right Camshaft Cover PCV Fitting Orifice
- (262) Oil Fill Tube
- (263) Left Camshaft Cover PCV Fitting O-ring
- (265) Left Camshaft Housing Cover Insulator
- (266) Right Camshaft Housing Cover Insulator
- (704) Ignition Coil
- (704) Ignition Coil
- (705) Ignition Coil Bolt
- (705) Ignition Coil Bolt
- (719) Spark Plug
- (719) Spark Plug

Camshaft Timing Components

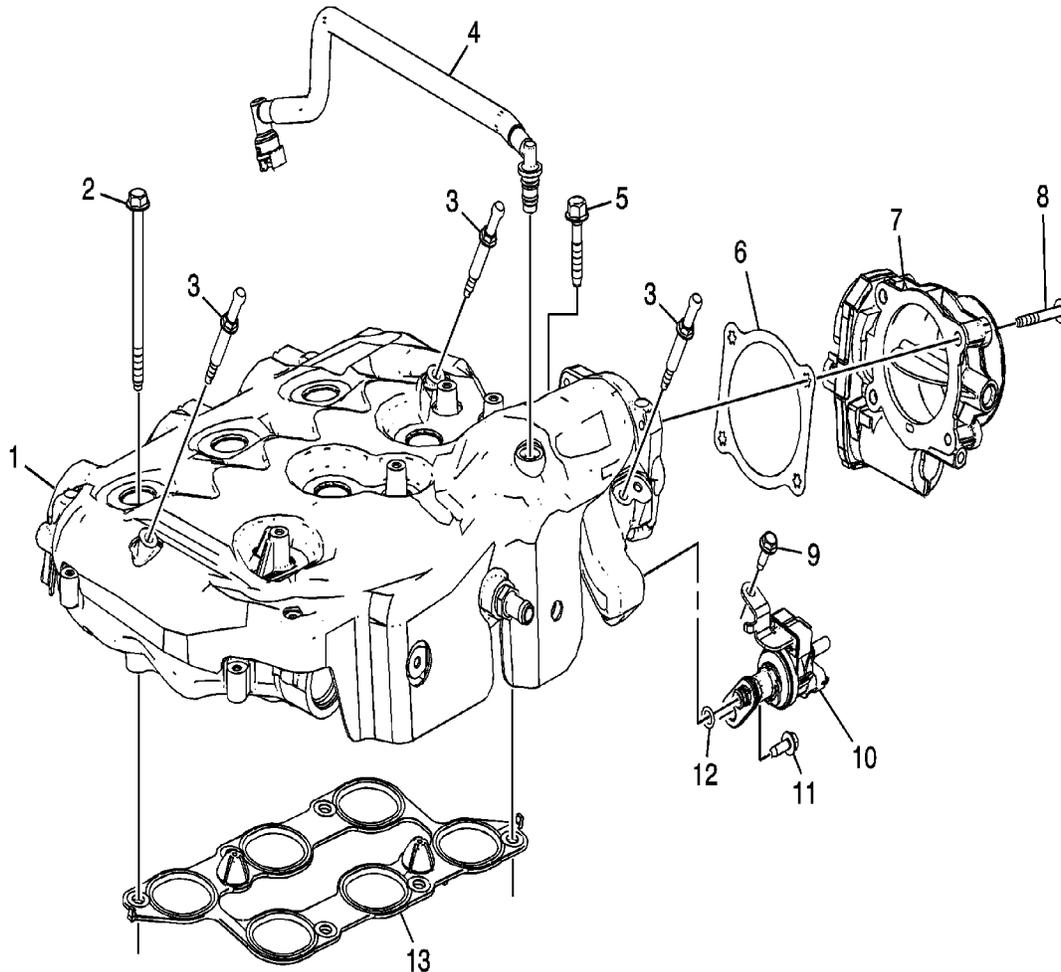


- (150) Crankshaft Sprocket
- (151) Lower Primary Timing Chain Guide
- (152) Primary Timing Chain Tensioner
- (153) Primary Timing Chain Tensioner Bolt
- (154) Lower Primary Timing Chain Guide Bolt
- (155) Primary Timing Chain

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- (156) Upper Primary Timing Chain Guide
- (161) Camshaft Intermediate Drive Shaft Sprocket Bolt
- (161) Camshaft Intermediate Drive Shaft Sprocket Bolt
- (164) Primary Timing Chain Tensioner Gasket
- (165) Left Camshaft Intermediate Drive Shaft Sprocket
- (166) Right Camshaft Intermediate Drive Shaft Sprocket
- (170) Secondary Timing Chain
- (170) Secondary Timing Chain
- (171) Left Secondary Timing Chain Guide
- (173) Left Secondary Timing Chain Shoe
- (174) Left Secondary Timing Chain Shoe Bolt
- (174) Left Secondary Timing Chain Shoe Bolt
- (175) Left Secondary Timing Chain Tensioner
- (177) Left Secondary Timing Chain Tensioner Gasket
- (181) Right Secondary Timing Chain Guide
- (183) Right Secondary Timing Chain Shoe
- (185) Right Secondary Timing Chain Tensioner
- (187) Right Secondary Timing Chain Tensioner Gasket
- (190) Exhaust Camshaft Position Actuator
- (190) Exhaust Camshaft Position Actuator
- (191) Intake Camshaft Position Actuator
- (191) Intake Camshaft Position Actuator
- (192) Camshaft Position Actuator Bolt

Intake Manifold



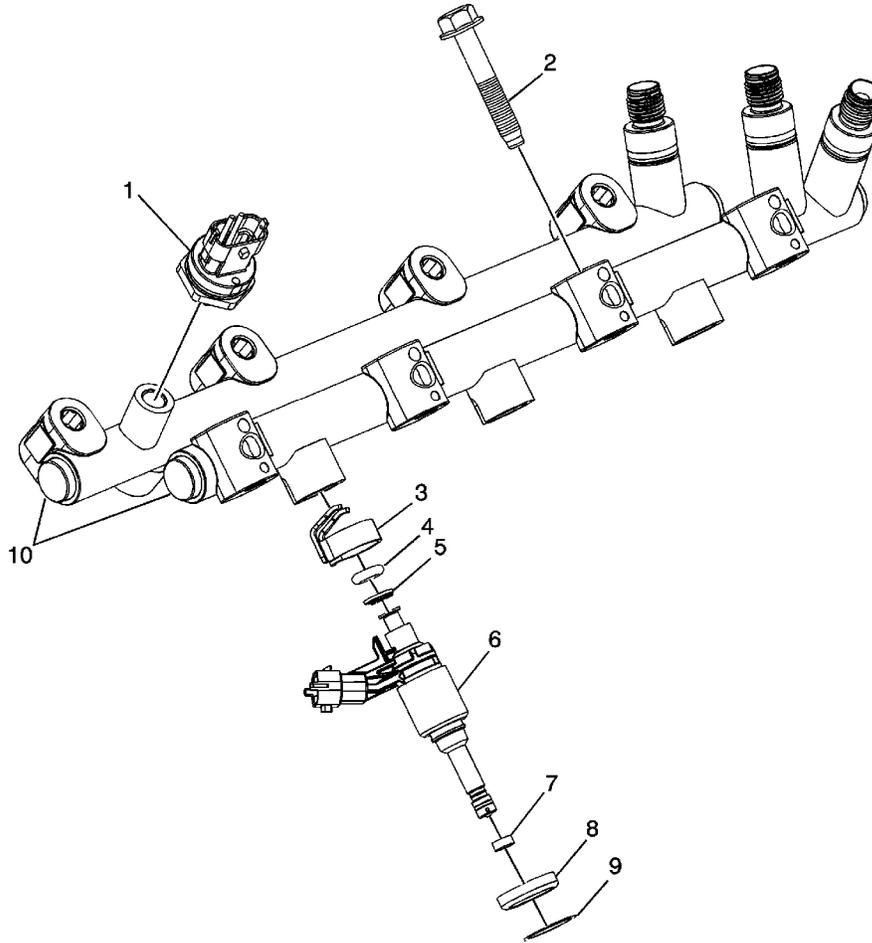
- (1) Intake Manifold
- (2) Intake Manifold Bolt - Long
- (3) Sight Shield Ball Stud
- (4) PCV Tube
- (5) Intake Manifold Bolt - Short
- (6) Throttle Body Gasket
- (7) Throttle Body
- (8) Throttle Body Bolt
- (9) EVAP Solenoid Bolt
- (10) EVAP Solenoid
- (11) EVAP Solenoid Bolt

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(12) EVAP Solenoid O-ring Seal

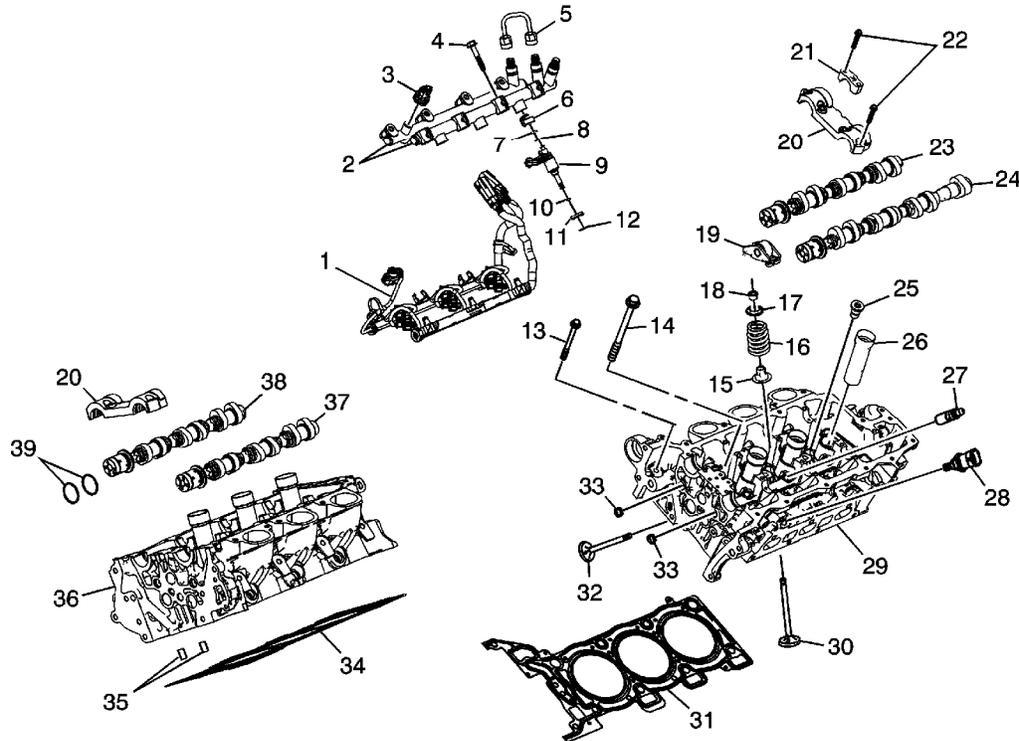
(13) Intake Manifold Gasket

Fuel Rail



- (1) Fuel Pressure Sensor
- (2) Fuel Rail Bolt
- (3) Fuel Injector Retainer
- (4) Fuel Injector O-ring Seal
- (5) Fuel Injector Spacer
- (6) Fuel Injector
- (7) Fuel Injector Teflon Seal
- (8) Fuel Injector Isolator Cup
- (9) Fuel Injector Isolator Cup Retaining Ring
- (10) Fuel Rail

Cylinder Head Assemblies

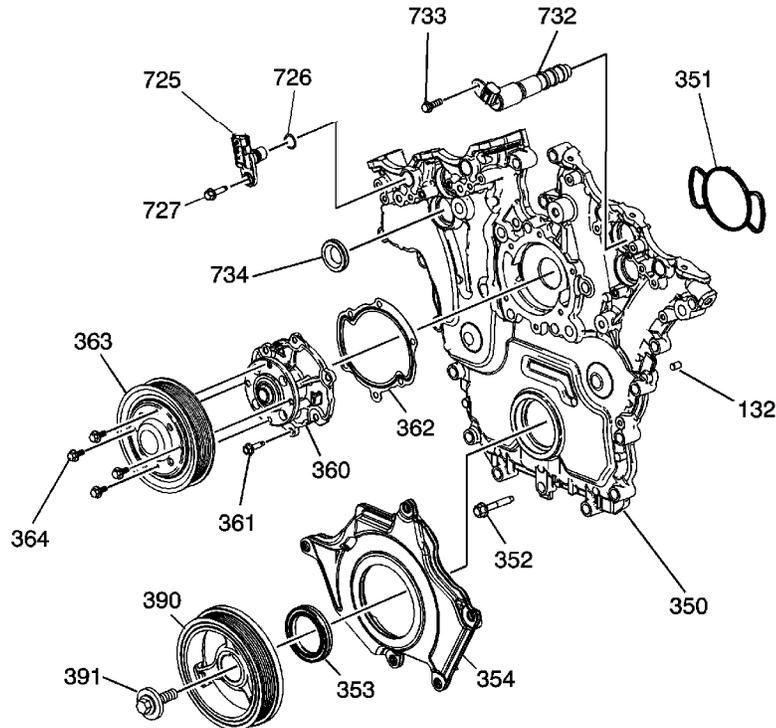


- (1) Fuel Injector Wiring Harness
- (2) Fuel Rail
- (3) Fuel Pressure Sensor
- (4) Fuel Rail Bolt
- (5) Fuel Rail Crossover Pipe
- (6) Fuel Injector Retainer
- (7) Fuel Injector O-ring Seal
- (8) Fuel Injector Spacer
- (9) Fuel Injector
- (10) Fuel Injector Teflon Seal
- (11) Fuel Injector Isolator Cup
- (12) Fuel Injector Isolator Cup Retaining Ring
- (13) Cylinder Head Front Bolt
- (14) Cylinder Head Bolt
- (15) Valve Stem Oil Seal
- (16) Valve Spring
- (17) Valve Spring Cap
- (18) Valve Stem Key

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- (19) Valve Rocker Arm Assembly
- (20) Cylinder Head Camshaft Front Thrust Bearing Cap
- (21) Cylinder Head Camshaft Cap - Intermediate
- (22) Cylinder Head Camshaft Cap Bolt
- (23) Left Intake Camshaft
- (24) Left Exhaust Camshaft
- (25) Cylinder Head Coolant Hole Threaded Plug
- (26) Spark Plug Sleeve
- (27) Hydraulic Valve Lash Adjuster Assembly
- (28) Engine Coolant Temperature Sensor
- (29) Left Cylinder Head
- (30) Intake Valve
- (31) Left Cylinder Head Gasket
- (32) Exhaust Valve
- (33) Cylinder Head Oil Gallery Expansion Plug - 14 mm
- (34) Right Cylinder Head Gasket
- (35) Cylinder Head Oil Gallery Check Valve
- (36) Right Cylinder Head
- (37) Right Exhaust Camshaft
- (38) Right Intake Camshaft
- (39) Camshaft Oil Seal Ring

Engine Front Cover

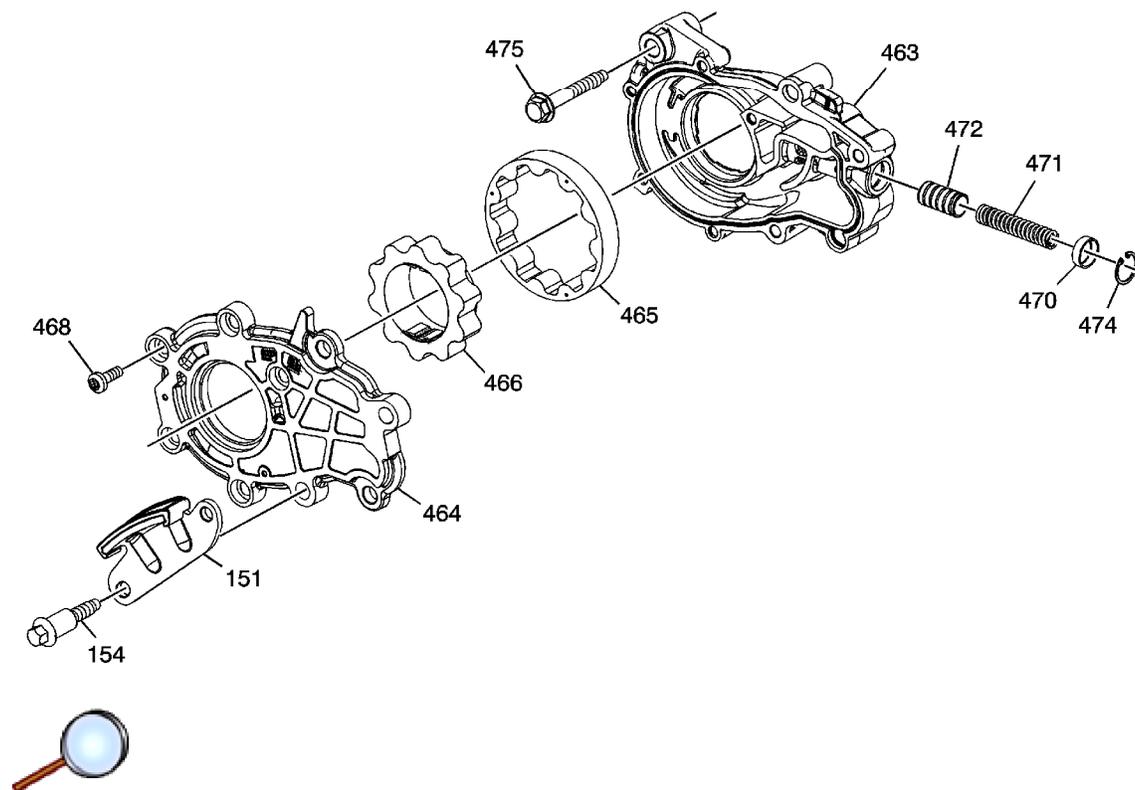


- (132) Engine Front Cover Locating Pin
- (350) Engine Front Cover
- (351) Engine Front Cover Gasket
- (352) Engine Front Cover Bolt
- (353) Engine Front Cover Seal
- (354) Engine Front Cover Deadener
- (360) Water Pump Assembly
- (361) Water Pump Bolt
- (362) Water Pump Gasket
- (363) Water Pump Pulley
- (364) Water Pump Pulley Bolt
- (390) Crankshaft Balancer
- (391) Crankshaft Balancer Bolt
- (725) Camshaft Position Sensor
- (726) Camshaft Position Sensor O-ring
- (727) Camshaft Position Sensor Bolt
- (732) Camshaft Position Actuator Solenoid Valve
- (733) Camshaft Position Actuator Solenoid Valve Bolt

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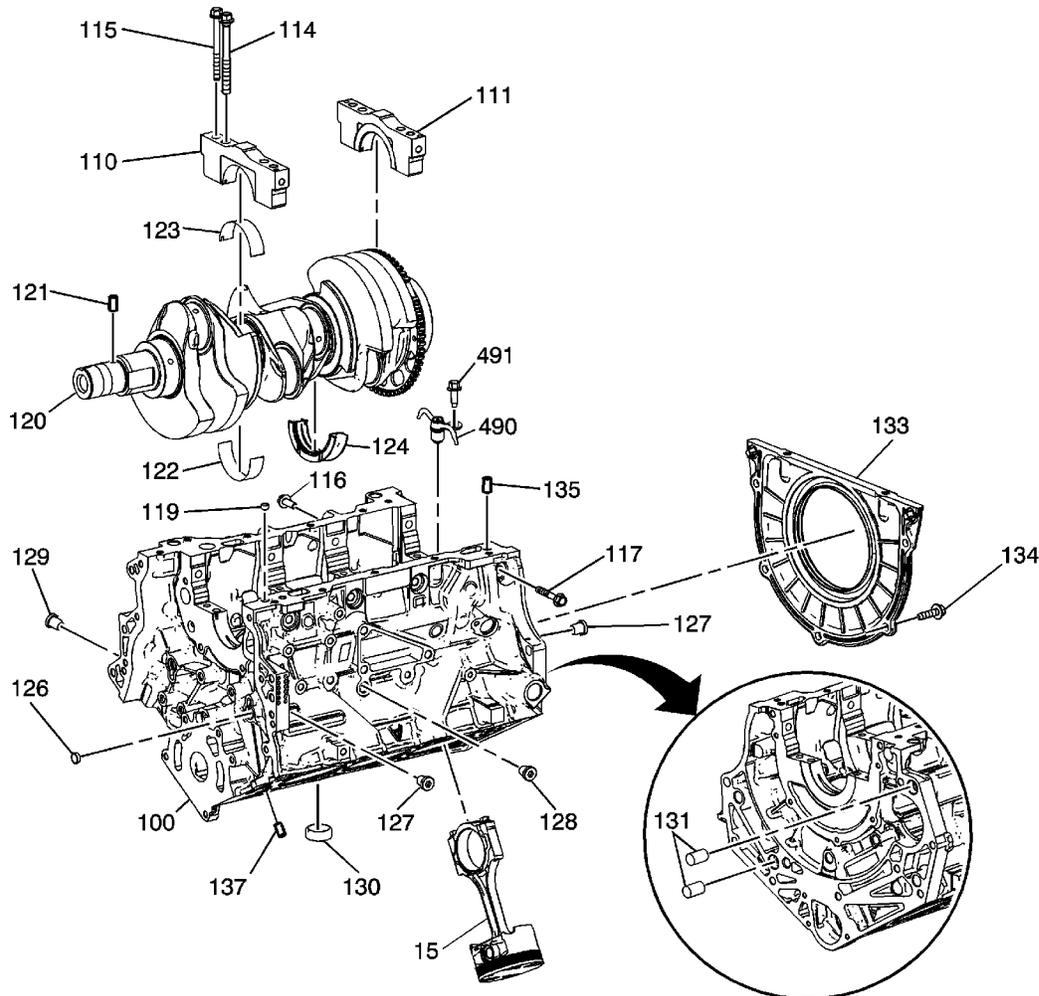
(734) Camshaft Position Actuator Solenoid Valve Seal

Oil Pump - Second Design



- (151) Lower Primary Timing Chain Guide
- (154) Lower Primary Timing Chain Guide Bolt
- (463) Oil Pump Housing
- (464) Oil Pump Cover
- (465) Oil Pump Driven Gear
- (466) Oil Pump Drive Gear
- (468) Oil Pump Cover Bolt
- (470) Oil Pressure Relief Valve Bore Plug
- (471) Oil Pressure Relief Valve Spring
- (472) Oil Pressure Relief Valve
- (474) Oil Pressure Relief Valve Bore Plug Retainer Clip
- (475) Oil Pump Bolt

Engine Block Assembly

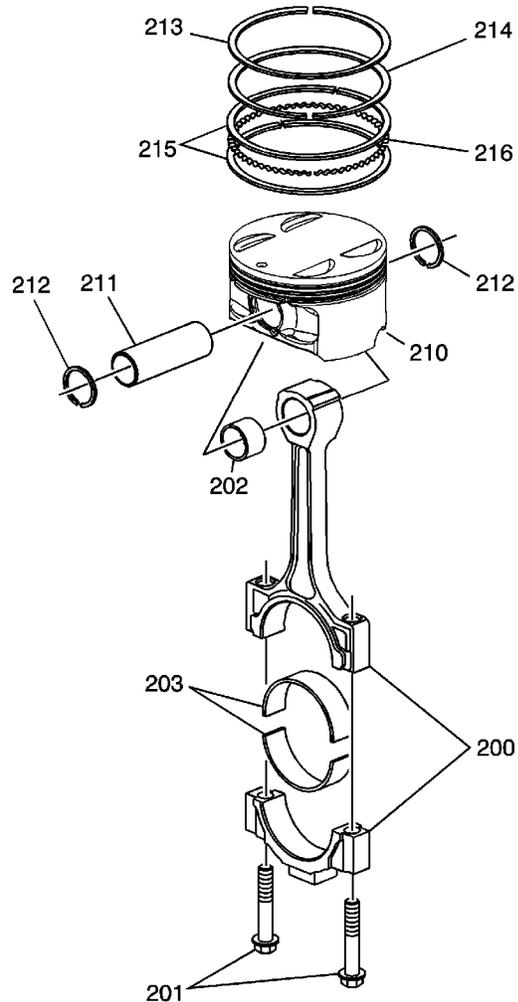


- (15) Piston and Connecting Rod Assembly
- (100) Engine Block
- (110) Crankshaft Bearing Cap
- (111) Crankshaft Bearing Thrust Cap
- (114) Crankshaft Bearing Cap Inboard Bolt
- (115) Crankshaft Bearing Cap Outboard Bolt
- (116) Crankshaft Bearing Cap Side Bolt - Short
- (117) Crankshaft Bearing Cap Side Bolt - Long
- (119) Engine Block Oil Gallery Expansion Plug - 10 mm
- (120) Crankshaft
- (121) Crankshaft Sprocket Locating Pin

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- (122) Crankshaft Upper Bearing
- (123) Crankshaft Lower Bearing
- (124) Crankshaft Upper Thrust Bearing #3
- (126) Engine Block Oil Gallery Expansion Plug - 14 mm
- (127) Engine Block Oil Gallery Threaded Plug - 14 mm
- (127) Engine Block Oil Gallery Threaded Plug - 14 mm
- (128) Engine Block Coolant Drain Threaded Plug - 14 mm
- (129) Engine Block Oil Gallery Threaded Plug - 20 mm
- (130) Engine Block Core Coolant Expansion Plug - 34.3 mm
- (131) Transaxle Locating Pin
- (133) Crankshaft Rear Oil Seal Housing Assembly
- (134) Crankshaft Rear Oil Seal Housing Assembly Bolt
- (135) Oil Pan Locating Pin
- (137) Cylinder Head Locating Pin
- (490) Piston Oil Nozzle
- (491) Piston Oil Nozzle Bolt

Piston, Rings, Bearing and Connecting Rod

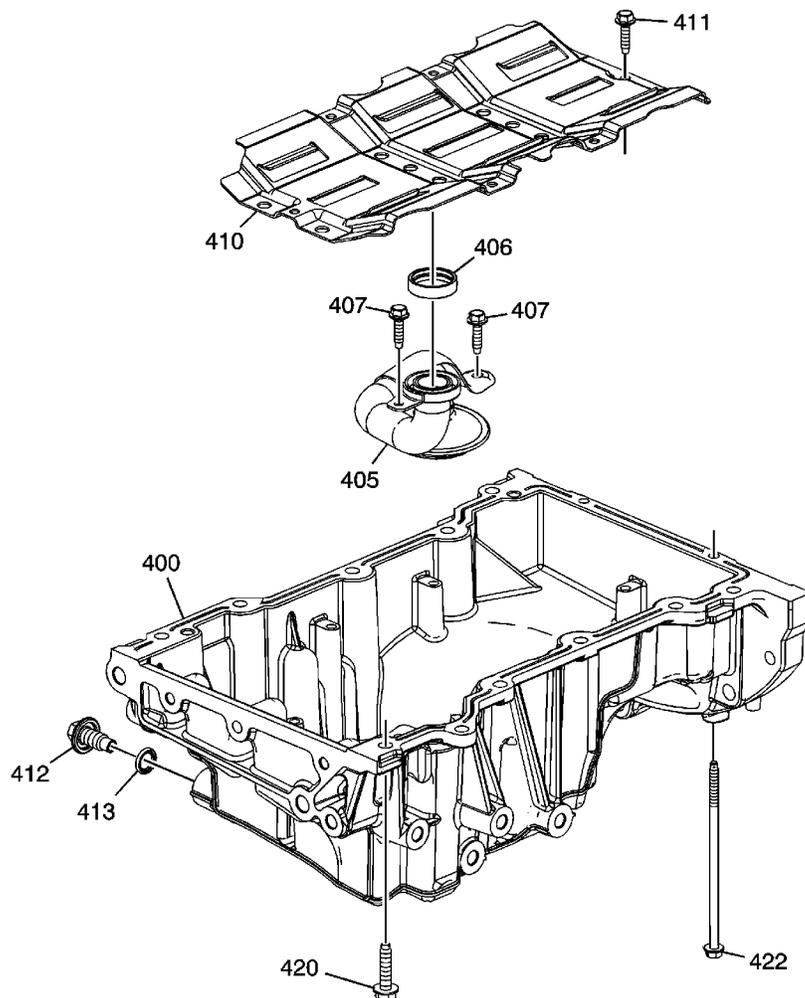


- (200) Connecting Rod
- (201) Connecting Rod Bolt
- (202) Connecting Rod Bushing
- (203) Connecting Rod Bearing
- (210) Piston
- (211) Piston Pin
- (212) Piston Pin Retainer
- (212) Piston Pin Retainer
- (213) Piston Upper Compression Ring
- (214) Piston Lower Compression Ring
- (215) Piston Oil Control Rail Ring

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(216) Piston Oil Control Ring Spacer

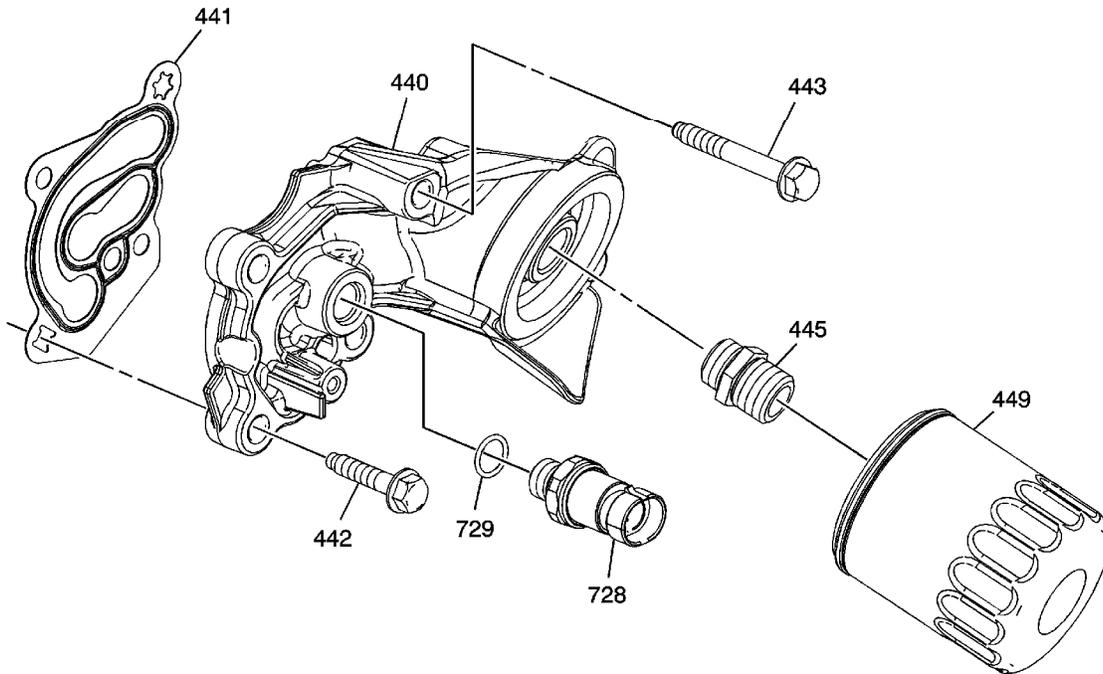
Oil Pan Assembly



- (400) Oil Pan
- (405) Oil Pump Suction Pipe
- (406) Oil Pump Suction Pipe Gasket
- (407) Oil Pump Suction Pipe Bolt
- (407) Oil Pump Suction Pipe Bolt
- (410) Oil Pan Baffle Scraper
- (411) Oil Pan Baffle Scraper Bolt
- (412) Oil Pan Drain Plug
- (413) Oil Pan Drain Plug O-ring
- (420) Oil Pan Bolt
- (422) Oil Pan Bolt - Long

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Oil Filter Adapter



- (440) Oil Filter Adapter
- (441) Oil Filter Adapter Gasket
- (442) Oil Filter Adapter Bolt
- (443) Oil Filter Adapter Bolt - Long
- (445) Oil Filter Fitting
- (449) Oil Filter
- (728) Engine Oil Pressure Sensor
- (729) Engine Oil Pressure Sensor O-ring