



Service Bulletin

Bulletin No.: PIP6124

Date: July, 2026

PRELIMINARY INFORMATION

Subject: 6.7L RPO (LS6) Engine Exchange

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Chevrolet	Corvette Stingray	2027		ALL	ALL	6.7L LS6	ALL
Chevrolet	Corvette Grand Sport	2027		ALL	ALL	6.7L LS6	ALL

Involved Region or Country	North America
Condition	Engine Exchange
Cause	New Product Monitoring

Correction

This PI will cover the engine exchange program only for the 2027 model listed above.

Additional PIs will be published for each engine or component as they are introduced.

During the launch of the 2027 model year, the following engine will be under an exchange program: 6.7L (LS6)

Product teams continually seek valuable information for engineering improvements.

To assist in this effort, an engine exchange program will be used for the listed engine and Vehicle above.

The 2027 model year engine exchange program will be administered by the GM Product Quality Center (PQC).

Prior to contacting PQC, please make sure to complete the "OEM Engine Exchange" template for this PI.

US Dealers:

Please contact the Product Quality Center (PQC) by opening a new PQC case via CX Connect in Global Connect. Search for the associated PI/Bulletin number in CX Connect to download the appropriate PQC Parts Restrictions Template and save a copy to your computer. Fill the form out and save it on your computer. You can then attach a copy of the completed template to your PQC Case.

Canada Dealers:

If your diagnosis leads to a possible part replacement, please contact the PQC by email at PQC@gm.com or by calling 1-866-654-7654 to receive the PQC -Parts Restriction Template. Once it has been filled out, return the completed Parts Restriction Template for review.

Use of the templates will minimize the time spent in contact with PQC.

Guidelines for honoring exchange requests under this program are being strictly enforced.

The PQC may refer the dealer technician to TAC if additional diagnosis is required.

TAC will be available for product inquiries that do not require assembly replacement.

Components that may be removed and serviced without exchange are identified by an "X" in the appropriate column of the table below.

Any repairs involving engine components not identified in the table below, engine noise concerns, oil consumption, or related symptoms may require an engine exchange.

Important: Engine block and internal components along with any component in which a cylinder head has to be removed to perform the repair will require an engine exchange.

Please note that this list is subject to change as the program progresses.

You will be notified by the PQC consultant if additional items are considered serviceable on a particular engine.

Serviceable Components	6.7L (LS6)
Accessory Drive	X
A/C Compressor	X
All Cooling System Hoses	X
All Engine Sensors	X
Brackets	x
Rocker Covers	x
Coolant System Radiator Inlet/Outlet Pipes	x
Crankshaft Damper	x
Engine Control Module (ECM)	x
Engine Cover / Beauty Cover	x
Engine Oil Cooler	x
Engine Wiring Harness	x
Engine Mounts/Transaxle Mounts	x
Exhaust Manifold/Gasket	x
Catalytic Converters	x
Flywheel/Dampener Assembly	x
Fuel Injectors DI and PFI	x
Fuel Injector Wiring Harness	x
Fuel Rail(s)	x
Fuel Pipes & HP Fuel Pump Assembly	x
Generator	x
Hi/Lo Pressure Fuel Lines	x
Intake Air Ducts and Related Components	x
Ignition System (Coil, Spark Plugs, Wires)	x
Intake Manifold	x
Knock Sensors	x
MAP Sensor	x
Mass Air Flow Sensor	x
Oil Fill Cap	x
Dry sump oil tank	x
Oil Cooler/Hoses	x
Oil Filter	x

Serviceable Components	6.7L (LS6)
Oil Level Indicator and Tube	x
Oil Pressure Control Solenoid Valve	x
Oil Pressure Sensor	x
Cylinder Deactivation Solenoids/Valley Cover	x
AFM Solenoid Harness	x
Oxygen Sensors	x
PCV Tube(s)	x
Purge Solenoid	x
Starter Motor Assembly	x
Thermostat Housing/Gasket	x
Throttle Body/Related Components	x
Vapor Vent Lines/Seals	x

Note: The above service parts list of components will be requested through the normal GM Parts return process for engineering evaluation for cause, through the WPC parts return process.

Important: Engine repairs or failures that are caused by components external to the engine do NOT fall under the exchange program. For example, if an engine failure is caused by incorrectly installed engine coolant lines, the engine assembly (or parts required to complete a repair) must be obtained from General Motors Customer Care and Aftersales (GMCC&A) through the normal parts ordering process.

The exchange program is created as a way to correct internal concerns and to take what is learned and find a way to eliminate these concerns. External components causing a failure do not provide any useful information in improving an engine. The engine received from GMCC&A through the normal parts ordering process will be a new service engine.

Engine Broadcast Code Location 6.7L LS6:



1. Is located on the back of the left cylinder head



7159389

2. Is located on the front left side of the engine

Procedures

A thorough diagnosis must be performed on the condition in order to prevent unnecessary component replacements.

Contact the Product Quality Center (PQC) to verify the proper diagnosis has been performed.

Upon review of the diagnosis, the PQC will establish a case reference number and make arrangements for shipping an exchange unit to your dealership.

The replaced engine must be returned to the Warranty Parts Center (WPC)

DO NOT SHIP AN ENGINE TO THE (WPC) WITHOUT AN OFFICIAL WPC REQUEST

DO NOT wait for the warranty claim to be paid before returning the removed engine.

Important: Failure to return the replaced engine by the due date will result in the dealership being debited the entire warranty claim (parts and labor). The removed unit must be returned complete in the original exchange shipping container. For effective engineering analysis, please do not remove any components. Dress items on the removed unit must remain the same as the replacement engine (e.g., exhaust manifolds, throttle body, etc.). Dealerships returning engines/components that have been even partially disassembled will be judged as violating this procedure and, as such, will be billed for all materials furnished.

Notice: The exchange unit will be shipped with a quantity of oil; check oil level before starting the engine. Low oil level could result in internal engine damage.

Shipping Preparation

1. Remove the engine assembly/component as outlined in the applicable Service Manual.
2. Drain all fluids from the removed engine.
3. Retorque any fasteners that were loosened or removed to the original torque specification.
4. Remove any plastic shipping plugs and covers from the exchange unit and install them on the removed unit.
5. If the concerned engine leaks, mark the area directly on the engine with a permanent marker.
6. Write the PQC case reference number on the repair order form.
7. Write the PQC case reference number directly on the component in a visible location.
8. Insert a copy of the WPC Special Part Request, repair order with technician comments, and the completed OEM Engine Exchange Worksheet (template in this bulletin) into a plastic bag and securely fasten to the engine.

9. Place the removed engine into the original shipping container.

Shipping Instructions

For US Dealers -

1. The WPC Customer Service Specialist will contact your Parts Manager for an email address and verify BAC, VIN, labor op, repair order number, need for lift gate, for the returned engine and need for a lift gate. Along with the physical address of the dealership.
2. The WPC Customer Service Specialist will reach back out to the Parts Manager by email with BOL, WPC Shipping Sheet, and expected pickup date and time.
3. The special return request will be visible in the GWM part return orange notification area. The Dealer does not need to take any action in GWM. Once the engine is received by WPC the Special Return Request in GWM will be removed.
4. The Dealer will secure the engine for shipping and attach the BOL, WPC Shipping Sheet, and RO with Technician comments to the exterior of the crate.
5. The Expedite Company will arrive and pick up the engine.

For Canada Dealers –

1. The WPC Customer Service Specialist will contact your Parts Manager for an email address and verify BAC, VIN, labor op, repair order number, need for lift gate, along with the physical address of the dealership.
2. The WPC Customer Service Specialist will reach back out to the Parts Manager by email with BOL, WPC Shipping Sheet, Customs paperwork and expected pickup date and time.
3. The special return request will be visible in the GWM part return orange notification area. The Dealer does not need to take any action in GWM. Once the engine is received by WPC the Special Return Request in GWM will be removed.
4. The Dealer will secure the engine for shipping and attach the BOL, WPC Shipping Sheet, and RO with Technician comments to the exterior of the crate.
5. The Expedite Company will arrive and pick up the engine.

OEM Engine Exchange Worksheet:

Caller's First and Last Name/Position:

Technician's Direct Phone:

Parts Manager's name:

Dealership's Current Address:

*Required

Q1: Customer Concern:

Q2: Has the vehicle been modified with non-production accessories?

Q3: Describe the failure of the engine:

Q4: *Broadcast Code:

The broadcast code is a 3-digit code found on the engine back of the left cylinder head or left side of engine block)

Q5: *Engine Serial Number:

[Broadcast code and serial number are located on the
same label.]

Q6: Vehicle VIN?

Q7: Does the vehicle have any DTCs in the ECM/TCM/BCM?

If yes, list codes and perform necessary diagnosis:

If diagnosis was not completed for these codes, please explain why:

Q8: Are there any leaks (Y/N)

- If no, continue to next question
- If yes,
- What type of leak?
- Location of the leak?

Q9: Are there any Noises (Y/N)

- If no, continue to next question
- If yes, complete the following
- What kind of noise?
- Location and frequency of the noise?
- When does it occur?
- How long does it last?

Q10: Any Lubrication Concerns (Y/N)

If no, continue to next question

If yes, complete the following

- Oil pressure readings:
- Results of oil consumption test:
- Was the oil contaminated?
- If yes, what type of contamination?

Q11: Is the vehicle being used for track purposes? (Y/N)

If no, continue to next question

If yes, is there documentation that 5w50 Dexos R oil was being used.

Q12: Any Performance Concerns (Y/N)

If no, continue to next question

If yes, List

- Low power?
- Misfire?
- Detonation?
- Blue smoke?
- White smoke?
- Will vehicle crank?
- Vibration

Q13: Did the engine show evidence of:

- Overheating?
- Coolant consumption?
- Coolant contamination?
- Low compression?

- Please provide the readings:

Important: Applicable miscellaneous items such as engine oil and coolant should be added to the part allowance amount and claimed in the Parts Cost column and not included in the Net Amount (DMN) column of the warranty claim.

Your cooperation is greatly appreciated. Prompt return of the original engine will increase the effectiveness of this program. If you have any questions regarding the exchange program administrative procedures, please contact the Product Quality Center.

Parts Information

Description	Part Number	Qty
Engine 6.7L RPO (LS6)	12714452 (full Dress) 12814339 (long Block)	1

Warranty Information

For vehicles repaired under the Powertrain coverage, use the following labor operation. Reference the Applicable Warranties section of Investigate Vehicle History (IVH) for coverage information.

Labor Operation	Description	Labor Time
4067490	Engine Replacement	Use Published Labor Operation Time
Add	Administrative Allowance	0.2 Hr.
For engine exchange only: a \$400.00 misc. net allowance for the engine can be claimed in the warranty transaction		

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