

Preliminary Information

PIP5578 2.0L (RPO LSY) Engine Exchange Program-Gasoline

Models

Brand:	Model:	Model Years:	VIN:		Engine:	Transmissions:
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Cadillac	XT4	2019	All	All	2.0L (LSY)	All

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

This PI will cover the engine exchange program onlyfor the 2019 model listed above.

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

During the launch of the 2019 model yearthe following engine will beunder an exchange program:

2.0L Engine Assembly (RPO LSY)

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 vehicles

The 2019 model year engine exchange program will be administered by the GM Product Quality Center (POC).

Dealerships are required to call the PQC, not GM &chnical Assistance (TAC), to request an exchange.

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

Use of the templates will minimize the time spent on the telephone and avoid the need of a second call to the 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.

Division	PQC Telephone Number	
US Cars and Trucks	1 000 054 7654	
Canada English and French	1-866-654-7654	

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 belowengine noise concerns, oil consumption, or relatedsymptoms 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	2.0L (LSY)
Accessory Drive	x
A/C Compressor	x
All Engine Sensors	x
All Cooling System Hoses	x
Brackets	x
Cam Carrier Heat Shield	x
Camshaft Position Actuator Solenoid Valve	x
Catalytic Converter	x
Coolant Control Valve / Gaskets	x
Coolant Pump Electric	x
Coolant System Pipes	x
Cooling System RadiatorInlet/Outlet Pipes	x
Crankcase PressureSensor	x
Crankshaft Dampner	x
Crankshaft PositionSensor	x
Crankshaft PositionSensor Ring	x
Engine Control Module(ECM)	x
Engine Cover / BeautyCover	x
Engine Mounts / Transaxle Mounts	x
Engine Oil Coolerand Pipes	x

Flywheel / Flexplate X Fuel Injector Wiring Harness X Fuel Injectors X Fuel Injectors X Fuel Pipes & HP Fuel Pump Assembly X Fuel Rail X Generator X Heater Outlet /Inlet Fittings X Hi / Lo Pressure Fuel Lines X Ignition System (Coil, Spark Plugs) X Intake Air Ducts & Related Components X Intake Air Temperature Sensor X Intake Manifold / Gasket X Knock Sensors X Map or Baro Sensor X Mass Air Flow Sensor X Oil Cooler / Pipes X Oil Fill Cap X Oil Filter X Oil Level Indicator (Dipstick) X Oil Pressure Control Solenoid Valve X Oxygen Sensors X PCV Assy / Pre-Separator / Fine Separator / Hose(s) X Purge Pump , Lines and Solenoid X Starter Motor Assembly X Sliding Cam System Actuators X Throttle Body / Adapter / Gaslet X Turbo Assembly / POA parts / Brackets /	Engine Wiring Harness	X
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Sliding Cam Lobe Position Sensors X Sliding Cam SystemActuators X Throttle Body / Adapter / Gaslet X	Purge Pump , Lines and Solenoid	x
Sliding Cam SystemActuators X Throttle Body / Adapter / Gaslet X	Starter Motor Assembly	x
Throttle Body / Adapter / Gaslet X	Sliding Cam Lobe Position Sensors	x
	Sliding Cam SystemActuators	x
Turbo Assembly / POA parts / Brackets /	Throttle Body / Adapter / Gaslet	x
Gaskets X		x

Important: Engine repairs or failures that arecaused 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. Externalcomponents causing a failure do not provide any useful information in improving an engine. The engine received from GMCC&Anrough

the normal parts ordering process will be a new service engine.

Engine Broadcast Code Location2.0L Engine Assembly(RPO LSY)

General Location:





Specific Location:





As shown in the abovephotos, the engine broadcast code can be found near the top of the engine front cover just below the engine oil fill cap.

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 mæk arrangements for shipping an exchangeunit 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

Important: Failure to return the replaced engine by the due date will result in the dealershipeing 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 procedurend, 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 startingne engine.

WPC Request:

The Warranty Parts Center (WPC) will fax a Special Part Request to your dealership requesting the return of the removed engine.

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

The Special Part Request will provide a request number

This request number must be written on the outside of the return container using a permanent marker.

Failure to write the request number on the return container may delay the processing of your return.

If you do not receive the WPC Special **B**rt Request, contact Julie Cumo at 248-371-9939 (for **F**ench call PQC 1-866-654-7654)to obtain the proper paperwork in order to return the removed engine. Failure to return the engine may result in a debit.

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 mack
- 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 **A**rt Request, repair order with technician comments, and the completed OEM EngineExchange Worksheet (template in this bulletin) into a plastic bag and securely fastento the engine.
- 9. Place the removed engine into the original shipping container

Shipping Instructions:

- 1. Write the WPC request number and the PQC case reference number on the outside of the container with a permanent marker.
- 2. U.S. Dealers Please go to wwwgmwpc.com, click on the UPS emblem, enter your BAC and select "dealer inquires." Select "available forms" located on the left side of the screen in blue, the select "Central Transport BOL." A partially complete BOL will appearPlease print this Central Transport BOL and fill out "from" section with your dealer information and complete the description fields.

Canadian Dealers - Refer to the latest version of Corporate Bulletin Number 99-00-89-019 for detailed shipping information.

- 3. Contact the specified carrier to arrange for pick-up of the removed engine. If lift gate service is necessary, please request it at the time of arranging pick-up service.
- 4. Have the driver sign the bill of lading. Retain a copy of the signed bill of lading. Attach your cop to the original repair order. This will be your proof of returning the removed engine.
- 5. Ship all return exchanges/components Third Prty Freight Collect with appropriate paperwork to

GM Warranty Parts Center 45 Northpointe Drive Orion, MI 48359

OEM Engine Exchange Template

• Caller's Name/Position:
• Parts Manager name:
Technician Direct Phone:
• Dealership's Fax Number:
• Parts Dept fax number:
Customer Concern:
 Has dealer completed the "OEM Engine Exchange" template in bulletin and reviewed Serviceable Components?
• (If no, dealer MUST complete Bulletin and call back)
 Has the vehiclebeen modified with non-production accessories?
 What type of service is the vehicle being used in (police, taxi, towing, personal, etc.)?
Describe the failure of the engine:
Broadcast Code:
• Engine Serial Number:
• Replacement Cost = \$
• Requested LaborTime:
Are there any leaks (Y/N)
If no, continue to next question
• If yes,
• What type of leak?

• 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 is occur?
How long does it last?
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?
Any Performance Concerns (Y/N) If no continue to next question
If no, continue to next question
• If yes, List
• Low power?
• Misfire?
• Detonation?
Blue smoke?
White smoke?

• Location of the leak?

- Will engine crank?
- Vibration?
- Did the engine show evidence of the following
- Overheating? (Y/N)
- Coolant consumption? (Y/N)
- Coolant contamination? (Y/N)
- Low compression? (Y/N)
- If yes, List Compression test readings:

Warranty Information

Labor Operation	Description	Labor Time	Parts Allowance	
4067490	Engine Replacement	Use Published Labor Operation Time	\$400.00	
Add	Administrative Allowance	0.2 hr	\$400.00	
*Use published labor operation time plus the administrative allowance indicated above.				

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 apprecated. 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

Version History

Version	1
Modified	8/3/2018 - Created

















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