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# **Preliminary Information**

## PIP5692A 1.2L (RPO LIH) Engine Exchange Program-Gasoline

### <u>Models</u>

Brand:	Model:	Model Years:	VIN:		Engina	Transmissions:
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Buick	Encore GX	2020	All	All	1.2L (LIH)	All
Chevrolet	Trailblazer	2021	All	All	1.2L (LIH)	All
Involved Region or Country North America						

Country	
Condition	Engine Exchange
Cause	New Product Monitoring

This PI will cover the engine exchange program only for the 2020-2021 models listed above.

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

During the launch of the 2020-2021 model yearthe following engine will be under an exchange program:

1.2L Engine Assembly (RPO LIH)

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 2020 model year engine exchange program will be administered by the GM Product Quality Center (PQC).

# Dealerships are required to contact the PQC, not GM @chnical Assistance (TAC), to request an exchange.

Please contact the Product Quality Center (PQC) by opening a new case via Dealer Case Management (DCM) From the DCM home page, click on "New PQC Case" found on the Technical Assistance tab.

Then in Global Connect click on the Support/Chat tab, TAC-PQC Tab, PQC -Parts Restrictions Templates to Download the PQC PIP5692 2020 Buick Encore GX or 2021 Chevrolet Trailblazer 1.2L (LIH) Engine Exchange Template and save a copy to your computer, You can attach a copy of the template to your PQC Case. 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	1-866-654-7654	
Canada English and French		

Components that may be removed and serviced withoutexchange 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.

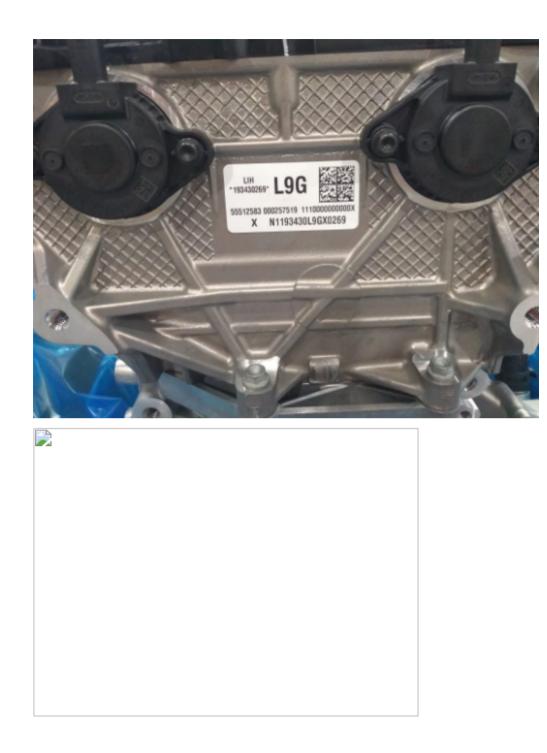
Serviceable Components	1.2L (LIH)
Accessory Drive	X
A/C Compressor	X
All Engine Sensors	x
All Cooling System Hoses	X
Brackets	x
Camshaft Cover Heat Shield	X
Camshaft Cover	x
Camshaft Position Actuator Solenoid Valve	X
Catalytic Converter	X
Coolant System Pipes	X
Cooling System RadiatorInlet/Outlet Pipes	X
Crankcase Pressure Sensor	x
Crankshaft Dampner	x
Crankshaft PositionSensor	X
Crankshaft Position Sensor Ring	X
Engine Control Module(ECM)	x
Engine Cover / BeautyCover	X
Engine Oil Cooler and Pipes	x
Engine Wiring Harness	X
Flywheel / Flexplate	X

Fuel Injector WiringHarnessXFuel InjectorsXFuel Pipes & HP Fuel Pump AssemblyXFuel RailXGeneratorXHeater Outlet / Inlet FittingsXHi / Lo Pressure Fuel LinesXIgnition System (Coil, Spark Plugs)XIntake Air Ducts & Related ComponentsXIntake Air Temperature SensorXMap or Baro SensorXOil Cooler / PipesXOil Cooler / PipesXOil Level Indicator (Dipstick)XOil Pressure SwitchXOxygen SensorsXOil Pressure SwitchXOxygen SensorsXOxygen SensorsXThree SwitchXOxygen SensorsXTurbocharger Wastegate Control SolenoidXTurbocharger Wastegate Tubes and HosesXTurbocharger Wastegate Tubes and HosesXWater Pump AssemblyXWater Pump AssemblyX		
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· · · ·	Turbocharger Assembly	X
Water Pump Assembly X	Vacuum Pump Assembly	X
	Water Pump Assembly	X

Important: Engine repairs or failures that arecaused by components external to the engine do NOT fall under the exchange program. Br example, if an engine failure is causedby 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 programis 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&#hrough the normal parts ordering process will be a new service engine.

Engine Broadcast Code Location

#### 1.2L Engine Assembly(RPO LIH)



As shown in the abovephoto, it can be found on the engine front cover between the CMP Actuators

#### **Procedures:**

# A thorough diagnosis must be performed on the conditionin order to prevent unnecessary component replacements.

Please contact the Product Quality Center (PQC) by opening a new case via Dealer Case Management (DCM) From the DCM home page, click on "New PQC Case" found on the Technical Assistance tab.

Then in Global Connect click on the Support/Chat tab, TAC-PQC Tab, PQC -Parts Restrictions Templates to Download the PQC PIP5692 2020 Buick Encore GX 1.2L (LIH) Engine Exchange Template and save a copy to your computer, You can attach a copy of the template to your PQC Case. The PQC will work with engineering 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

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 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 starting engine.

#### **WPC Request:**

The Warranty Parts Center (WPC) will fax a Special **B**rt 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 Bart Request, repair order with technician comments, and the completed OEM EngineExchange 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:**

**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 Brty Freight Collect with appropriate paperwork to

GM Warranty Parts Center 45 Northpointe Drive Orion, MI 48359

### 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 TimeParts Allowance
4067490*	Engine	Use Published Labor Operation
4067490*	Replacement	Time
For engine exchange only: a \$400.00 misc. net allowance for the engine can be claimed in the warranty		
transaction		

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.

Version History

Version	2
Modified	02/24/2020 - Created on.
Modified	04/29/2020 - Updated to add 2021 Chevrolet Trailblazer



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