



**IMPORTANT SERVICE
INFORMATION FOR:**

- ✓ SERVICE MANAGER
- ✓ SERVICE ADVISOR
- ✓ TECHNICIAN
- ✓ PARTS DEPARTMENT
- ✓ WARRANTY PERSONNEL

BULLETIN NUMBER:
IB23-J-001

ISSUE DATE:
MARCH 2023

GROUP:
ENGINE

REPLACEMENT LONG BLOCKS & INSTALLATION TIPS

AFFECTED VEHICLES

- 2012 - 2020MY Isuzu N-Series Vehicles
Equipped with 6.0L Gasoline Engines
- 2022MY Isuzu N-Series Vehicles
Equipped with 6.0L Gasoline Engine

INFORMATION

In the past 6.0L gasoline engines came as a new long block assembly. These engines are now provided as remanufactured long block assemblies. The remanufactured configuration does not include some of the same components as the previous new long block configuration did.

Components not provided

The following components must be transferred from the old engine or replaced with new components as necessary:

Components	Transfer	Replace
crankshaft pulley Bolt		Included
crankshaft pulley	X	
crankshaft position sensor	X	
camshaft position sensor, gasket, and wiring harness	X	
camshaft position actuator magnet and gasket	X	
engine oil pressure sensor	X	
engine coolant temperature sensor	X	
knock sensors	X	
oil filler cap	X	
oil level indicator, indicator tube, and gasket	X	
water pump and gaskets	X	
cylinder heads bypass pipe and gaskets	X	
exhaust manifolds	X	
motor mounts	X	
ignition coils, spark plugs, and spark plug wires	X	
engine oil filter		X
engine intake manifold assembly and gaskets,	X	
fuel injectors and rail, the throttle body, the PCV hoses, attached sensors, and vacuum hoses	X	

All drive belt driven components and brackets (e.g., cooling fan, generator, vacuum pump, power steering pump, drive belt tensioner, etc.)	X	
The flex plate	X	
The transmission bellhousing adapter, as applicable	X	
Oil Pan and oil pickup/screen	X	
Oil pan and oil pickup/screen gaskets		X

Additionally, the oil pan and the oil pickup/screen assembly ***must*** be transferred from the old engine to the new engine using ***new gaskets*** (not included with the remanufactured long block).

NOTE: If the old oil pan, oil pickup/screen assembly, or oil pan baffle are damaged or contaminated with failed engine debris that cannot be completely removed, they ***must*** be replaced with new components.

NOTE: A required ***new*** replacement bolt for the crankshaft pulley ***is*** included with the remanufactured long block assembly. (See Figure 1.)

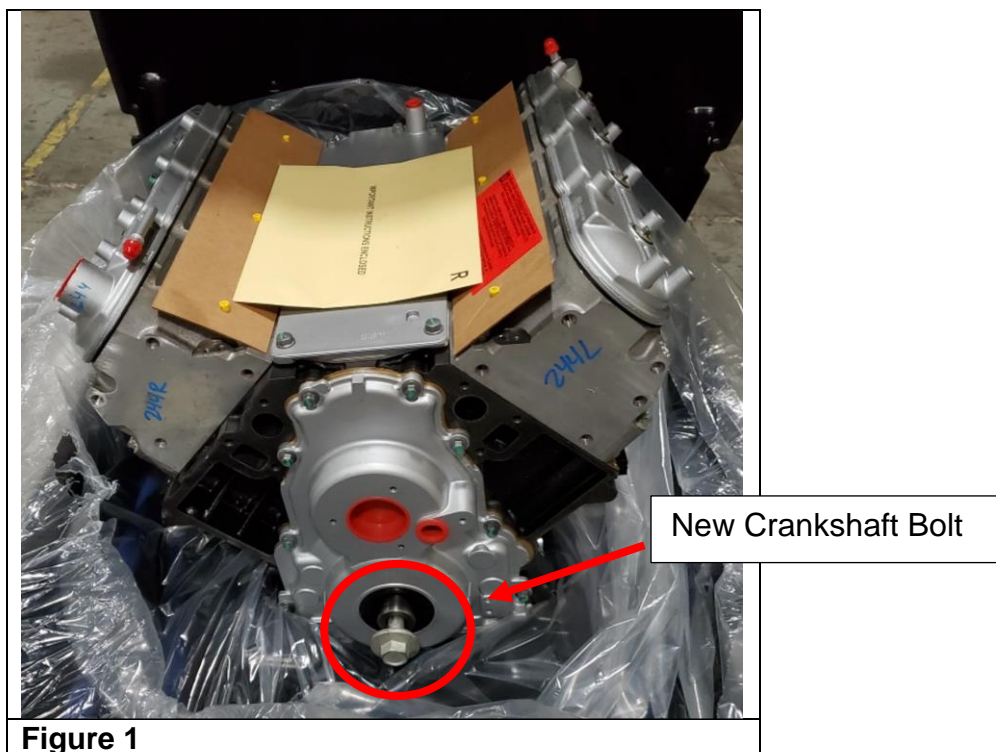


Figure 1

Installation Tips

There are specific procedures related to removing and reinstalling the crankshaft pulley. Please refer to the appropriate Workshop Manual for the detailed repair procedure.

Additionally, to properly remove and reinstall the crankshaft pulley, the following essential service tools are required:

- [J 45059](#) Angle Meter
- [J 41816](#) Crankshaft Balancer Remover
- [J 41816-2](#) Crankshaft End Protector
- [J 42386-A](#) Flywheel Holding Tool
- [J 41665](#) Crankshaft Balancer and Sprocket Installer
- [J 41478](#) Crankshaft Front Oil Seal Installer

Essential service tools may be purchased from isuzutrucks.service-solutions.com.

Location of Serial Number

On remanufactured 6.0L gasoline engines the location of the engine serial number that needs to be programmed into the ECM prior to repair completion has changed. Refer to Figure 2 for the location of this serial number.

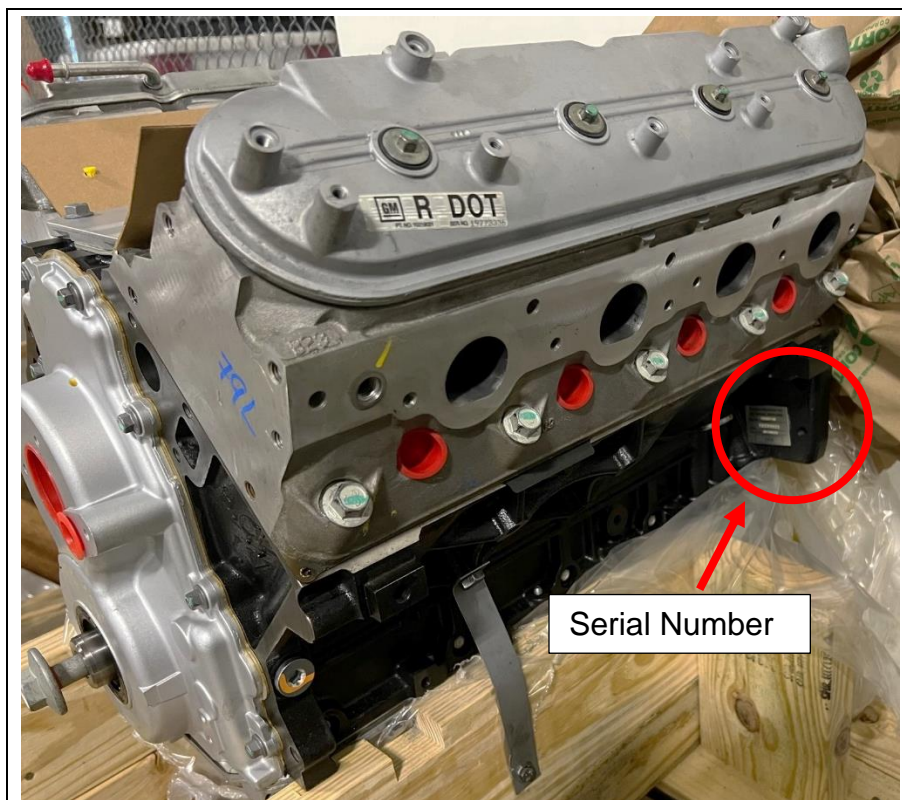


Figure 2

NOTE: All documentation included with the remanufactured long block (e.g., bulletins, installation instructions, and warnings) should be thoroughly read and understood before performing the engine replacement.

PARTS INFORMATION

Part Number	Description	Application
8-19260-746-0	ENGINE ASM; GAS 6.0L	2012-2020 6.0L NGAS without KL8 'Conversion Natural Gas' option

		2022 6.0L NGAS Class 5
--	--	------------------------