



# ENGINE

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## Required installation Procedures **PLEASE READ BEFORE INSTALLATION**

Prior to installation and operation of this recycled product, it's necessary to perform several inspections, change over accessories and routine maintenance to ensure uninterrupted service. Many accessory parts and components have been left attached to our assembly for your convenience and care of handling. These may save time, however the installer is responsible for exchanging parts and accessories as needed and replacing normal wear and tear items that are not covered under the warranty. These change over accessories and wear and tear items are not included in the price or warranty of this product. Thank you for your cooperation and business.

### INSTALLATION CHECK LIST:

- Determine why the original engine failure occurred and make appropriate repairs.
- Ensure this engine is the same application of the one being replaced.
- Clear all computer diagnostic codes from the vehicle prior to installing.
- Exchange the oil and and pick up tube.
- Inspect and replace gaskets and seals (front seal, rear main seal valve, cover gaskets, oil pan gaskets). On crankshaft bolts that are drilled through sealant must be applied to avoid leaks.
- Install new thermostat and gasket.
- Replace the timing belt.
- Remove all "cap-plugs" and office covers.
- Replace hoses clamps and belts.
- Replace water pump.
- Install replacement sparkplugs and wires.
- Exchange the well and bolts. Exchange attached accessory items to ensure proper fit (mounts, intake manifold, exhaust manifold, distributor, sensors).
- Disable fuel ignition before attempting to start engine. This will allow the oil to prime as indicated by the manufacturer.
- Replace engine oil, oil filter, air filter, fuel filters, coolant-antifreeze.
- Drain excess oil and coolant from exhaust system.
- If equipped with an engine oil cooler the radiator or external cooler must be replaced.
- Ensure the cooling system is flushed and functioning properly.

### COMMON CAUSES OF FAILURES:

1. Failure to exchange the flywheel and its bolts.
2. Failure to exchange the oil pan and pick up tube.
3. Cooling system fans fail to cycle properly and melts heat indicator tab.
4. Failure to replace engine oil cooler, or integral oil cooler in radiator.
5. Failure to install engine oil prior to starting.
6. Failure to remove all "cap-plugs" from hose orifices.
7. Failure to replace the thermostat and water pump
8. Failure to clear all vehicle computer codes.
9. Failure to repair the "cause of the original engine failure"

### HOW TO PREP RETURN UNIT FOR EXCHANGE:

- Do not return the exchanger engine prior to completed installation. (this may result in lost bolts and/or brackets).
- Completely drain all oil and fluids from unit.
- Re-use "cap-plugs" from replacement engine and install on core in same locations to avoid spills.
- Mark the unit as a "core" and notify your sales representative for pick-up.

**Failure to Comply**

**VOIDS WARRANTY!**