



Engine Installation Checklist

Engine Installation Guide

Please Read Before Installation

Before installing and operating this recycled product, it is necessary to perform several inspections. These inspections are the following: Change over accessories, and routine maintenance. Many accessory parts and components have been left attached to the assembly for your convenience and for care and handling during shipment. The installer is responsible for exchanging parts and accessories as needed and replacing normal wear & team items that are not covered under the warranty. The changeover accessories and wear & tear items are not included in the price or warranty for this product. Failure to complete, may void the warranty. There are instances where a transmission must have codes / software updated before driving the vehicle. This must be done by an OE dealer. It is the responsibility of the customer to ensure this happens.

Pre-Installation Check List

- Determine why the original engine failure occurred and make appropriate repairs.
- Ensure this engine is the same application as the one being replaced.
- Clear all computer diagnostic codes from the vehicle prior to installation.
- Exchange the oil pan and pick up tube.
- Inspect and replace gaskets & seals, front seal, rear main seal, valve cover gaskets, oil pan gasket(s). On crankshaft bolts that are drilled through, sealant must be applied to avoid leaks.
- Install new thermostat and gasket.
- Replace timing belt.
- Remove all “cap-plugs” and orifice covers.
- Replace hoses, clamps and belts.
- Replace water pump.
- Install replacement spark plugs and wires.
- Exchange flywheel and bolts.
- Exchange attached accessory items to insure 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 filter, 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 Issues That Cause Failures Of Installed Engines

1. Failure to exchange fly wheel 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.



Engine Installation Checklist

Engine: Getting Your Old Unit Ready For Return

- Save all shipping material from the replacement transmission for use in returning the defective one.
- Return the old transmission only after the complete install of the replacement. This ensures you are not missing any bolts, brackets, or wiring.
- Fully drain all oil and fluids from unit.
- Re-use “cap-plugs” from the replacement engine and install on core in the same locations to avoid spills.
- Exchange must be assembled as a unit and placed on pallet or container as delivered.
- Mark the unit as “core” and then notify your sales representative for a pick-up.

Engine Warranty Statement: All Warranties Are Null And Void If

- The vehicle is used in a fleet, taxi, government, commercial vehicle, ride sharing, delivery, or limo service or has been converted from private passenger use to commercial or fleet use, or is used for racing or other competition or off-road recreational purposes.
- The part is installed in an application for which the vehicle manufacturer did not intend it.
- The part fails or becomes defective due to the vehicle being involved in a collision.
- Failure is caused by towing a trailer or other vehicle unless your vehicle is equipped for this purpose as recommended by the vehicle manufacturer.
- Failure is caused by abuse, misuse, or modifications.
- The vehicle has been modified to plow snow, whether the snowplow is attached to the vehicle or not.
- The part is installed or operated in a vehicle outside of the United States or Canada.
- The installed heat tab center is melted or removed.
- The Installation Checklist was not followed.
- The part is sold “As Is” as indicated on the front of the invoice.
- The vehicle is not serviced at proper intervals, or fuel/oil/coolant is not used in accordance with the vehicle manufacturer’s specifications. (Must be documented)
- The transmission fluid and filter are not replaced at time of installation with OEM recommended transmission fluid. (Must be documented)
- Failure is caused by or related to a collision, fire, theft, vandalism, riot, explosion, lightning, earthquake, windstorm, hail, water, freezing or flood.