

Pre-Installation Checklist for a Remanufactured Engine

Before You Start

- ❑ Verify all parts and tools are ready before starting installation.
- ❑ Ensure the work area is clean and safe.
- ❑ Confirm the engine is supported properly during installation.

Engine and Application

- ❑ Confirm the engine matches the application and configuration.
- ❑ Verify mounting points, sensors, and accessory layout.
- ❑ Compare transferred parts before assembly.

Root Cause Review

- ❑ Identify the cause of the original engine failure.
- ❑ Check for overheating, oil starvation, contamination, or fuel issues.
- ❑ Correct the root cause before installation.

Parts to Inspect or Replace

- ❑ Inspect turbocharger, manifolds, lines, injectors, and intake components.
- ❑ Replace worn, damaged, or contaminated parts.
- ❑ Replace filters, hoses, belts, clamps, thermostat, and water pump as needed.

System Cleaning

- ❑ Flush or rinse the cooling system.
- ❑ Clean the intake and exhaust systems.
- ❑ Clean or replace oil cooler, oil lines, and filter housing.
- ❑ Verify the fuel system is clean and uncontaminated.

Assembly Checks

- ❑ Clean all mating surfaces.
- ❑ Install new gaskets and seals where needed.
- ❑ Torque fasteners to specification.
- ❑ Check all hoses, connectors, brackets, and ground cables.

Fluids and Startup

- ❑ Fill with the correct oil and coolant.
- ❑ Pre-lube the engine before startup.
- ❑ Build oil pressure before allowing the engine to run.
- ❑ Clear diagnostic codes if needed.

Break-In

- ❑ Avoid extended idle during break-in.
- ❑ Watch oil pressure and coolant temperature.
- ❑ Check for leaks, noises, or warning lights.
- ❑ Follow the remanufacturer's break-in instructions exactly.