

# INSTALLER CHECKLIST COMPLETE, SIGN AND RETURN

Engine ID# \_\_\_\_\_

Oil:

- New oil screen and pick-up tube installed.
- The new pick-up assembly matches the oil pan.
- Pre-lube the engine by following the enclosed guidelines.

FUEL SYSTEM: A lean fuel mixture may cause the combustion chambers to overheat which will, in a very short time result in serious damage to the engine.

- Customer ordered a new/rebuilt fuel system.
- Fuel system has been properly calibrated.
  - New/reconditioned injectors
  - Injectors cleaned and flow-tested (Idles smoothly)
- All vacuum lines and hoses are securely installed
  - Intake manifold thoroughly cleaned (resurfaced if necessary). If manifold has sheet metal baffle it must be removed, cleaned and reinstalled. Check for intake leaks.
- New manifold gasket installed. Torque bolts to OEM specifications.

PRE-IGNITION/DETONATION:

- Set initial timing accurately, check total timing at 2500 rpm.
- Total timing of \_\_\_\_\_ degrees at \_\_\_\_\_ RPM.
- Distributor is in good condition, advance mechanism is operating properly.
- Recheck all vacuum lines and connections.
- Check EGR system and EGR valve position for proper OEM operation.
  - Insure exhaust system is free of restrictions. Catalytic converter may need replacing. Highly recommend replacing when NWEE engine is installed or after 100,000 miles.
- Ford only: Check intake manifold thermactor.
- Insure cooling system is in good repair and operating correctly. (radiator disassembled and rodded)
- Check operation of the vacuum or mechanical controlled heat riser. (Insure not riser not frozen)

MISCELLANEOUS:

- Thoroughly clean all sheet metal of contaminants and carbon residue.
  - Engines having fly wheel mounting bolts that extend completely through the crankshaft, must have bolt threads sealed.
- Bolt threads were sealed when installing flywheel.
- Impact wrench was not used when installing the flywheel mounting bolts. (Check Torque Specifications)
- Torque bolts to OEM specifications.
- Valves adjusted when required by OEM at initial start-up and run-in.
- For engines having adjustable stud-mounted rocker arms.
  - Torque rocker arm mounting nuts to OEM specifications.
  - An impact wrench was not used.
- Five hundred Mile Check up scheduled.

## WARNING

IF ANY PROBLEM WITH ENGINE IS DETECTED UPON INITIAL START-UP OR RUN-IN SHUTDOWN IMMEDIATELY

INSTALLING FACILITY: \_\_\_\_\_ DATE: \_\_\_\_\_

INSTALLING TECHNICIAN: \_\_\_\_\_ DATE: \_\_\_\_\_