Engine Rebuilders Checklist

(approved by the Automotive Engine Rebuilders Association)
you found it at: http://devestechnet.com

Following these few basic operations will help save time and provide you with a well installed, trouble free dependable engine assembly. Please check off each item as required.

PRE-ASSEMBLY CHECKLIST

ASSEMBLY CHECKLIST

☐ Thoroughly clean any parts which are to be re-used. Be sure no vacuum or EGR passages are restricted with carbon. Clean out any carbon build-up in throttle body areas.	☐ Use your torque wrench. Torque all bolts in sequence where specifications are available. Lightly lube bolt threads.
☐ Thoroughly clean the threads of any bolts to be re-used.	☐ Use a thread sealer where bolts enter any fluid areas, (coolant or oil) to prevent leakage around threads.
☐ Check all gasket and seal mating surfaces for warpage and bent or damaged areas which could result in sealing failures. Clean all gasket	☐ Pre-lube the lifters, push rods and rockers with assembly lube prior to installing.
surfaces of oil, paint, etc.	☐ Install a new cooling system thermostat.
☐ Prime the oil pump with engine oil or assembly lube before installing it on the new engine.	☐ Install new cooling system hoses and clamps. (radiator, heater, bypass, etc.)
☐ Replace and/or clean the oil pickup tube and	☐ Install a new water pump and fan clutch.
screen.	☐ Install new belt drives.
☐ Read and follow all gasket set instructions. Only use gasket adhesives/sealers where required by the gasket manufacturer.	☐ Install new timing belts and any idler/tensioner pulleys that the timing belt contacts.
☐ Inspect the radiator for any signs of leakage or clogged/corroded tubes. Have the radiator repaired or replaced if it isn't in perfect condition.	☐ Overhaul or replace the carburetor. Replace the carburetor and EGR base gaskets. Check EGR operation, replace if needed.
☐ Clean the air conditioning condenser fins to provide plenty of air flow to the radiator.	☐ Install a new fuel pump (if mechanical, engine mounted type.)
☐ Visually inspect the new engine to be certain t is an equivalent match to the engine being	☐ Inspect motor and transmission mounts. Replace if needed.
replaced. Inspect the new engine for any obvious defects.	☐ Inspect the clutch, flywheel, flex plate, etc. and replace as needed. If the thrust bearing was bad, check for swelling of the torque converter.
☐ Determine and correct the cause of engine failure prior to installing the new engine. (overneating, transmission slippage, fuel in oil, etc.)	☐ Fill the new oil filter with motor oil before installing.
	☐ Fill the engine with break-in oil recommended by the engine rebuilder.