



ERC Check List

Ask every supplier to describe how their engine is remanufactured/rebuilt. Compare services and make an educated buying decision. (Hint - print this out)

1. Block / Crankcase:

- Magnafluxed - has block been checked for cracks?
- Main alignment - have the saddles in the block that hold the crankshaft been honed?
- Cylinder resized - to what size have the cylinders been overbored?
- Deck Surface - has the deck surface been machined?

2. Crankshaft:

- Magnafluxed - has the crank been checked for cracks?
- Journal sizes - to what size have the rod and main journals been ground?
- Have any journals been welded?

3. Connecting Rods:

- Magnafluxed - have the rods been checked for cracks?
- Crankshaft bores - has the big end of the rod been resized?
- Straightness - have the rods been checked for bend and twist
- Dimensions - have the rods been checked for center to center distance?

4. Camshaft:

- Remanufactured
- New

5. Heads:

- Cracks - have heads been pressure tested to ensure that they don't leak? Have the heads been crack repaired?
- Surface - has the deck surface been machined?
- Guides - have new guides or guide liners been installed to allow OE valves to be used in the head?
- Seats - Have seats been cut (vs ground) on a multi-angle to improve valve to seat contact? If the engine is pre-80, have the seats been upgraded to allow the use of unleaded fuel?
- OK to use with unleaded fuel?



- Parts - What “wear components” have been replaced?
 - Valves - new or used
 - Valve locks - new or used
- Springs - new or used
 - Rocker arms - new or used
 - Push rods - new or used

6. Assembly: what is included with the assembled unit?

short block + heads

push rods and rocker arms installed (on OHV engines)

gaskets - the rest of the gaskets required to finish the installation

oil pump

oil pump screen

oil pump intermediate shaft

valve covers

timing cover

oil pan

7. Testing : what quality control procedures have been used?