## Disassembly list

## Cylinder head, OHC

Position number one cylinder at TDC compression using timing marks

Remove cam(s) evenly to avoid distortion

Remove head bolts in reverse order of assembly

Upon removal, check head gasket surfaces for signs of leakage

Check ports for oil and fuel

Check combustion chambers for signs of coolant leakage

Reinstall cam(s) without followers and check for cam rotation

Measure cam journals for roundness and check cam for staightness

Hang cam on rack

Check head for warpage on the cam side of the head

Shock retainers

Compress springs, remove keepers, and remove springs

Measure installed stem height

Measure installed spring height

Measure head thickness

Clean head casting in hot tank, soda blast if neccessary

Check for cracks using die penetrant or pressure tester

Measure valve stem diameter for taper and size

Check valve margin thickness (at least 1/32")

Check valve seat width

Measure valve guide inside diameter for taper and wear

Check guide-to-seat concentricity

## Cylinder head, OHV

Remove rockers assemblies and pushrods

Remove head bolts in reverse order of assembly

Upon removal, check head gasket surfaces for signs of leakage

Check ports for oil and fuel

Check combustion chambers for signs of coolant leakage

Check head for warpage on the deck side of the head

Shock retainers

Compress springs, remove keepers, and remove springs

Measure installed stem height

Measure installed spring height

Clean head casting in hot tank, soda blast if neccessary

Check for cracks using dry magnaflux powder

Measure valve stem diameter for taper and size

Check valve margin thickness (at least 1/32")

Check valve seat width

Measure valve guide inside diameter for taper and wear

Check guide-to-seat concentricity

## Block, OHC

Measure deck clearance

Measure rod side clearance

Make sure that the rods and mains are numbered correctly. If not, number them from front-to-rear

Remove piston and rod assemblies using plastic boots on rod bolts

Install the caps on the rods immediately after removal

Measure crankshaft end-play

Remove main caps and remove crankshaft

Hang crankshaft on rack

Install main caps back on the block

Remove core plugs

Remove any oil gallery plugs

Remove oil squirters if present

Clean block in hot tank

Check for cracks – Dry mag for Iron blocks and dye penetrant for Aluminum

Measure main housing bore diameters

Measure cylinder for taper and out-of-roundness

Check deck surface for warpage

Block, OHV

Measure deck clearance

Measure rod side clearance

Make sure that the rods and mains are numbered correctly. If not, number them from front-to-rear

Remove piston and rod assemblies using plastic boots on rod bolts

Install the caps on the rods immediately after removal

Measure crankshaft end-play

Remove timing set

Remove main caps and remove crankshaft

Hang crankshaft on rack

Install main caps back on the block

Remove camshaft (preferably by standing the block up)

Remove lifters from the outside pushing them in one-at-a-time

Remove core plugs

Remove any oil gallery plugs

Clean block in hot tank

Check for cracks – Dry mag for Iron blocks and dye penetrant for Aluminum

Measure main housing bore diameters

Measure cylinder for taper and out-of-roundness

Check deck surface for warpage