OLYMPIA ENGINE BUILDERS

1045 SOUTH BAY RD NE

OLYMPIA, WA 98506

July 19, 2022

Machine Shop Job Pricing NOTE: PRICES DO NOT INCLUDE COST OF PARTS

**HEADS**:

Cleaning Heads (includes primer paint)

Bake and Blast (cast iron) $55.00 one head, $98.00 for pair

Glass Bead (aluminum) $55.00 one head, $98.00 for pair

Jet Wash $55.00 one head, $98.00 for pair

Final Wash remove honing oil $15.00 one head, $25.00 for pair

Paint to order $15.00

Valve Grind/Head Re-build

One valve $12.50 (parts and cleaning not included)

One seat $12.50 (parts and cleaning not included)

All Cylinder Heads (cleaning included) w/out parts

1 Cylinder $95.00

2 Cylinders w/2 Valves Per Cylinder $120.00

2 Cylinders w/4 Valves Per Cylinder $170.00

Subaru Head Pairs SOHC $330.00

Subaru Head Pairs DOHC $350.00

3 Cylinders w/2 Valves Per Cylinder $145.00

3 Cylinders w/3 Valves Per Cylinder $182.00

4 Cylinders w/2 Valves Per Cylinder $170.00

4 Cylinders w/3 Valves Per Cylinder $220.00

4 Cylinders w/4 Valves Per Cylinder $270.00

6 Cylinders (inline) w/2 Valves Per Cylinder $220.00

6 Cylinders (inline) w/3 Valves Per Cylinder $295.00

6 Cylinders (inline) w/4 Valves Per Cylinder $370.00

V6 w/2 Valves Per Cylinder $273.00

V6 w/3 Valves Per Cylinder $295.00

V6 w/4 Valves Per Cylinder $423.00

V8 w/2 Valves Per Cylinder $323.00

V8 w/3 Valves Per Cylinder $423,00

V8 w/4 Valves Per Cylinder $523.00

Single Overhead Cam Add Valve Adjustment $100.00

Duel Overhead Cam Add Valve Adjustment $150.00

Valve Adjustment:

Single Overhead Cam $200.00 each head

Duel Overhead Cam $250.00 each head

SOHC Valve Grind Job $100.00

DOHC Valve Grind Job $150.00

Valve Seat Install (seat resurfacing included)

One Seat with no cleaning $90.00

One Seat w/cleaning $65.00

Two to three w/cleaning $50.00 each

With Valve Grind Job $15.00 each seat

Valve resurfacing (only)

One Valve $45.00

Two to Three Valves $25.00 each

Four or more call for pricing

Valve Guide Repair (parts not included)

One no cleaning $90.00

One with cleaning $65.00

Two or more $50.00 each

With Valve Grind Job $15.00 each

Cut Guides for Positive Type Valve Seals (cleaning $55.00 extra)

One Guide $90.00

One Three Cylinder Head $150.00

One Four Cylinder Head $165.00

One Inline Six Cylinder $180.00

One V8 Pair $320.00

With Valve Grind Job $5.00 each

Rocker Arm Stud (does not include parts or cleaning)

Machine for Screw in Stud

One $90.00

Two or more $50.00 each

One Three Cylinder Head $150.00

One Four Cylinder Head $165.00

One Inline Six Cylinder $180.00

One V8 Pair $320.00

With Valve Grind Job $15.00 each

Machine Boss

One $90.00

Two or more $50.00 each

One Three Cylinder Head $150.00

One Four Cylinder Head $165.00

One Inline Six Cylinder $180.00

One V8 Pair $320.00

With Valve Grind Job $10.00 each

Machine for Guide Plates $15.00 each

Spark Plug Hole Repair Chase $10.00 each

Repair $160.00 first one, $15.00 each after that per head

Ford 5.4 $300.00 each head

Valve Train Work (does not include parts or cleaning)

R&R Valve Seals

One $90.00

Two or more $50.00

Include in any job $5.00 each

Machine for Large Size Springs

One $90.00

Two or more $50.00 each

One Three Cylinder Head $150.00

One Four Cylinder Head $165.00

One Inline Six Cylinder $180.00

One V8 Pair $320.00

With Valve Grind Job $10.00 each

Head Pressure Test

1 thru 4 Cylinders $45.00

5 and 6 Cylinder $65.00

All Pairs $90.00

Head Mill (price includes cleaning unless otherwise specified)

1 thru 4 Cylinders $95.00

1 thru 4 Cylinders $65.00 with Valve Grind Job

4 Cylinder Diesels $110.00 (no cleaning)

5 and 6 Cylinder $110.00

5 and 6 Cylinder $85.00 with Valve Grind Job

6 Cylinder Diesel $150.00 (no cleaning)

All V pairs (includes Subaru) $110.00

All V pairs (includes Subaru) $98.00 with Valve Grind Job

All V Diesels $180.00 (no cleaning)

Extra price will include

Removing cams as needed to mill $50.00

Removing followers, pucks, and lifters $20.00

Removing dowl pins $68.00

Extraction of broken bolts $68.00 each

$25.00 extra for Heli-Coil

Head Installed $100.00 one head $150.00 two heads

\*NOTE: We are not responsible for missing dowl pins, followers, head bold washers, and etcetera to include cams and caps in the wrong position.

**BLOCK:**

Block Cleaning includes removing oil plugs, freeze plugs, and may include cam bearings if needed. Prices do not include any additional engine disassembly.

Bake and Blast (cast only) $160.00 cam bearings must be replaced, needs hone

Jet Wash (cast and aluminum) $140.00 extra $60.00 for ball hone cyl bores

Final wash to remove honing oil $80.00 charged to all completed hone jobs

$35.00 for one and two cylinders

Paint to order $35.00

Primer paint no charge

Install Cam Bearings $50.00 parts not included

Install Freeze Plugs $50.00 parts not included

Hone (does not include cleaning)

Power hone, no change to bore diameter

1 Cylinder $65.00

2 Cylinders $110.00

3 Cylinders $150.00

4 Cylinders $75.00

5 Cylinders $100.00

6 Cylinders $100.00

8 Cylinders $100.00

Hone cylinder bore to the first .020

1 Cylinder $110.00

2 Cylinders $220.00

3 Cylinders $200.00

4 Cylinders $100.00

5 Cylinders $125.00

6 Cylinders $150.00

8 Cylinders $200.00

Hone additional .010 $10.00 extra .010 per cylinder bore

Sleeve Cylinder $270.00 plus sleeve and bore each

Remove and replace wet sleeve $130.00 plus sleeve

Block Decking (does not include cleaning)

1 thru 3 Cylinders $110.00

4 thru 5 Cylinders $150.00

6 Cylinder $150.00

V6 and V8 $175.00

Line Hone (does not include cleaning)

3 Main $150.00

4 Main $195.00

5 Main $250.00

**CRANKSHAFT:**

All Crank Shafts $150.00 includes cleaning

Balance includes cleaning

4 Cylinders $160.00

5 Cylinders $170.00

6 Cylinders $180.00

V6 $225.00

V8 $270.00

V10 $300.00

Weight Matching and Bob Weights

V8 $150.00

V6 $125.00

4 Cylinders $110.00

Install Crank Shaft into Block

All engines 110.00

**RODS:**

Rebuild Connecting Rods

One $95.00

2 to 3 $110.00

4 to 5 $110.00 set

5 to 6 $110.00 set

6 to 8 $150.00 set

Remove, Replace and Align Pistons

One $95.00

2 to 3 $130.00

4 to 6 $25.00 each

All V8 $160.00 set

Install Connecting Rods onto Crankshaft in block

3 to 4 cylinders 100.00

6 to 8 cylinders 150.00

**EXHAUST MANIFOLD:**

Bake and Blast $75.00 each

Jet Wash $55.00 each

Resurface (cleaning not included)

1 thru 6 $98.00

V6 Pairs $170.00

V8 Pairs $170.00

**INTAKE MANIFOLD:**

Bake and Blast $98.00 (cast only, $35.00 extra for shield removal)

Jet Wash $98.00 (both cast and aluminum)

Glass bead $85.00 additional cost after wash upon request

Installed on Engine Build $150.00 extra (see long block pricing)

**FLYWHELS:**

Flat Flywheels, Car and Light Truck $65.00

Stepped Flywheels, Car and Light Truck $85.00

Flat Flywheels, Truck and Diesel $110.00

Prince includes final wash and pin removal

**MISCELLANEOUS:**

Broken Bolt Removal starts at $68.00 each

$25.00 additional for Heli-Coil style repair

$45.00 additional for EZ-Lock style repair

$50.00 additional for repairs with broken off drill

bits and easy outs.

**ENGINE REBUILDS:**

Engine Builds include disassembly cleaning and rebuilding the block, crank, rods, and cylinder head(s), and then assembled per manufactures, and accepted standards within the industry, using new/rebuild parts like pistons, rings, bearings, cams, lifters, oil pump, timing set, gaskets and seals. Long block prices include the above Head Rebuild Prices to include the cost of installing the cylinder head(s). Additional work not done, unless requested/needed, are: balance the rotating assembly, welding on or straightening the crank, repairing the guides and/or seats in the heads, line honing the mains, installing intake manifold, resurfacing the flywheel, or decking the block – again, these can be done for the extra cost listed above. Engine disassembly is included in the price.

NOTE: PRICES DO NOT INCLUDE PARTS

Short Block

All engines

Rotating Assembly only $1000.00

Install (non-overhead cam engines only; except oil pump):

Cam $50.00

Timing $50.00

Timing Cover $30.00

Oil Pump $30.00

Pick Up Screen $15.00

Oil Pan $50.00

Long Block

3 and 4 Cylinder OHV $1,590.00

3 and 4 Cylinder SOHC $1,640.00

3 and 4 Cylinder DOHC $1,690.00

6 Cylinder inline OHV $1,710.00

6 Cylinder inline SOHC $1,855.00

6 Cylinder inline DHOC $1,980.00

V6 OHV $1,821.00

V6 SOHC $1,966.00

V6 DOHC $2,091.00

V8 OHV $1,826.00

V8 SOHC $2,146.00

V8 DHOC $2,296.00