



PANHEAD

Unmatched  
PERFORMANCE  
& DURABILITY



Serving Harley-Davidson dealers and motorcycle shops since 1983  
[www.jprecision.com](http://www.jprecision.com)





## MACHINING SERVICES FOR PANHEAD Engines (1999-up)

December 2020 – 2020/2021

### HEAD: WORK OPTIONS

		Dealer Price	Retail Price
650	Intake manifold porting (Carburator)	Call us	54.29
254	MACHINE (2) heads for compression release valves (machining only)	Call us	94.29
255	MACHINE (2) heads for compression release valves (includes 1 set of AV&V compression release valves)	Call us	165.71
607	PISTON valve pockets machined for valve clearance (2 pistons)	Call us	70.00
613	Check and adjust cc on Twin Cam / EVO / Sportster	Call us	67.14

### CYLINDER HEADS

#### OVERALL REBUILD (2) HEADS

- Includes**
- (4) new AV&V valve guides and valve seals
  - Head gasket faces resurfaced
  - Valves centerless grinded
  - Set-up spring pressure & reassembly
  - Soda blast combustion chambers & ports
  - CNC seat job
  - Ultrasonic washed

		Dealer Price	Retail Price
216	<b>Overall rebuild (2) heads</b>	Call us	493.97
216-GB	<b>Overall rebuild (2) heads + Glass bead</b>	Call us	558.57

### HEAD: ESTHETIC

		Dealer Price	Retail Price
103	DISASSEMBLE & degrease (2) heads	Call us	44.29
105	SODA BLAST carbon out of (2) heads	Call us	44.29
107	GLASS BEAD (2) previously painted heads	Call us	131.43
108	GLASS BEAD (2) unpainted heads	Call us	100.00
109	SAND BLAST, (2) painted heads (ready to paint)	Call us	64.29
115	WELD & rebuild cooling fins	Call us	37.14
116	ULTRASONIC cleaning of (2) heads (ready for assembly)	Call us	51.43

### HEAD: VALVE SEATS

		Dealer Price	Retail Price
204	CNC 3 ANGLE seat job (2 heads)	Call us	110.00
214	MACHINE & install (1) valve seat (valve seat not included)	Call us	98.57
215	MACHINE & install (4) valve seats (valve seats not included) & blend with chambers (seat job not included)	Call us	257.14

### HEAD: VALVE GUIDES

		Dealer Price	Retail Price
218	REMOVE, install & fit (1) valve guide (labor only)	Call us	32.86
219	REMOVE, install & fit (4) valve guides (labor only)	Call us	65.71
224	BORE CLEAN damaged valve guide receiver hole	Call us	94.29
223	WELD & REPAIR valve guide receiver hole to std (includes 1 new valve guide & valve seat)	Call us	174.29

Prices may change without notice • Phone: 450-647-6650 • Fax: 450-647-1650

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### HEAD: VALVES

		Dealer Price	Retail Price
231	CLEAN carbon out of (1) valve	Call us	11.43
228	RECONDITION (1) valve	Call us	11.43
229	RECONDITION (4) valves	Call us	32.86
227	CLEAN & RECONDITION (4) valves	Call us	47.14

### HEAD: RESURFACING

		Dealer Price	Retail Price
236	RESURFACE (2) heads + bolt inserts machined deeper	Call us	92.86
240	RESURFACE & counter bore (2 heads)	Call us	107.14

### HEAD: MISCELLANEOUS

		Dealer Price	Retail Price
245	INSTALL (1) spark plug helicoil	Call us	44.29
247	WELD & repair cracked spark plug hole (helicoil included) (2 heads)	Call us	197.14
251	MACHINE (2) heads dual plug	Call us	195.71
262	WELD & REPAIR damaged combustion chamber	Call us	37.14
265	WELD & REPAIR (1) intake flange lip	Call us	51.43
267	INSTALL (1) Helicoil for rocker box stud	Call us	35.71
270	WELD new exhaust flange (flange included)	Call us	135.71

### CYLINDERS: BORING & HONING

		Dealer Price	Retail Price
312	BORE, HONE & fit (2) cylinders with stress plates	Call us	155.71

### CYLINDERS: ESTHETIC

		Dealer Price	Retail Price
122	SAND BLAST (2) cylinders (ready to paint)	Call us	58.57
123	SAND BLAST & PAINT (2) cylinders black (paint included)	Call us	160.00

### CYLINDERS: MISCELLANEOUS

		Dealer Price	Retail Price
318	REFACE (2) cylinders - lower decks	Call us	60.00
319	REFACE (2) cylinder upper decks & flange	Call us	74.29



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### CRANKS

		Dealer Price	Retail Price
415	RECONDITION, assemble & true 1 crank & connecting rods (complete job, labor only) Rod races replacement	Call us	350.00
		add 28.00	
416	SAME as previous + Dynamic balancing	Call us	492.86
418	RECONDITION, glass bead & fit (2) connecting rods	Call us	144.29
426	MACHINE (1) S&S flywheel for thrust washer	Call us	64.29
420	REPLACE Rod races (Labor only)	Call us	64.29

### ENGINE CASES

		Dealer Price	Retail Price
512	RESURFACE engine case deck (cylinder studs must be removed)	Call us	124.29
514	REMOVE cylinder studs (helicoils extra if required)	Call us	42.86
516	WELD & repair timing plug hole (helicoil included)	Call us	107.14
515	HELICOIL timing plug hole	Call us	52.86
518	OVERSIZE bore, breather gear hole .030"	Call us	84.29
519	SLEEVE breather gear hole (welding extra if required)	Call us	270.00
521	REMOVE & reinstall new case pinion bearing race + HONE & FIT (race not included)	Call us	152.86
523	HONE & FIT pinion bearing race	Call us	82.86
524	SLEEVE cam bearing hole	Call us	228.57
526	MACHINE left case for oversize bearing race insert	Call us	670.00
527	MACHINE engine case supports	Call us	122.86
137	Flywheels CLEARANCING for bobweight install.	Call us	51.43
513	Weld & repair left case primary o'ring lip	Call us	192.86

### ENGINE CASES : ESTHETIC

		Dealer Price	Retail Price
130	GLASS BEAD unpainted engine case (oil galleries masked)	Call us	94.29
131	GLASS BEAD painted engine case (oil galleries masked)	Call us	128.57
133	SAND BLAST engine case ready to paint (oil galleries masked)	Call us	70.00
134	MASK & PAINT engine case	Call us	128.57
135	OIL GALLERY spot weld removal & installation of 1/8 NPT plug (allows better oil gallery clean up)	Call us	60.00
136	Ultrasonic cleaning engine cases	Call us	67.14

### MISCELLANEOUS

		Dealer Price	Retail Price
612	HONE & FIT Rocker Holder	Call us	28.57

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