



Unmatched PERFORMANCE & DURABILITY

Serving Harley-Davidson dealers and motorcycle shops since 1983



WORK SHEET

HIGH PERFORMANCE MACHINING	dress 2191, De la Province, Longueuil, Qc, Canada, J4G 1R2 Phone: 450-647-6650 Fax: 450-647-1650
Dealer/Shop name	Date
Person to contact	Tel
HEAD MODEL	
M Twin Cam M EVO Sportster 883 to 1200 conversion M Milwaukee-Eight M EVO Big Twin M EVO Sportster 1200 M Other (specifiy)	
ENGINE SIZE	
Engine size Bore	Stroke
DESIRED	
M Stage II M Stages IIB M Stages IVB Stages IV+ M Other (specify):	M Stages V
NOTE For all Stage IIB, IIIB and IVB, you must send us the two intake manifold flange to engrave ther Because you need to interchange the flanges to match the raised ports. Not required for 2007 and up manifold with identical flanges.	n with a new "F" and "R".
PISTON MODEL With crankworks, we need the Piston weight in grams (inc. pin, clips and	d rings)
M Flat top M Domed M Reverse Dome Specify	
DESIRED COMPRESSION	
Ex.: 9.8 to I cc's Specify	
CAMSHAFT USED	
Model Lift T	DC lift
OUTSIDE ESTHETIC	
M The heads will be shipped back as received M Other (specifiy)	
HEAD WORK OPTIONS	
 J Precision Titanium logo installed on Stage IIB and UP (no extra charge) Compression release valves installation: Machine heads for manual model & heads for electric model (machining electric model (machining electric)). Intake manifold supplied to be ported	supply Machine M Yes M No only) M Yes M No M Yes M No
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WE MAKE YOU GO FASTER!

MACHINING SERVICES FOR

SHOVELHEAD Engines (1999-up)

	HEAD: PORTING	Dealer Price	Retail Price
567	STAGE IIB (Stock casting & aftermarket heads) The Ultimate upgrade for your Shovelheads. We redesigned and raised the intake port by welding to increase velocity, allowing for a crisperthrottle response and more power. Includes: Valve guides, valve seals, valve spring kit, valves.	Call us	1175.71
		Dealer	Retail
	HEAD: WORK OPTIONS	Price	Price
550	Intake manifold porting (Carburator)	Call us	54.29
256	MACHINE (2) heads for compression release valves (includes 1 set of AV&V compression release valves)	Call us	214.29
607	PISTON valve pockets machined for valve clearance (2 pistons)	Call us	70.00
13	Check and adjust cc on Twin Cam / EVO / Sportster	Call us	67.14
		Dealer	Retail
	CYLINDER HEADS	Price	Price
	-Valves centerless grinded -Set-up spring pressure & reassembly -Soda blast combustion chambers & ports -CNC seat job		
203	-Ultrasonic washed Overall rebuild (2) heads	Call us	479.40
		Call us	4/3.40
222	Overall rebuild (2) heads + Glass bead	Call us	515.71
222		Call us Dealer	
22		Dealer	515.71 Retail
	HEAD: ESTHETIC		515.71
03		Dealer Price	515.71 Retail Price
03 05 07	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads	Dealer Price Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43
03 05 07 08	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads	Dealer Price Call us Call us Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00
03 05 07 08 09	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint)	Dealer Price Call us Call us Call us Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29
03 05 07 08 09 10	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST & paint (2) heads	Dealer Price Call us Call us Call us Call us Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00
03 05 07 08 09 10 11	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST & paint (2) heads SAND BLAST, paint & highlight (2) heads	Dealer Price Call us Call us Call us Call us Call us Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29
03 05 07 08 09 10 11 14	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST & paint (2) heads	Dealer Price Call us Call us Call us Call us Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00
03 05 07 08 09 10 11 14 15	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST, (2) painted heads (ready to paint) SAND BLAST & paint (2) heads SAND BLAST, paint & highlight (2) heads HILLITE fins (2) heads	Dealer Price Call us Call us Call us Call us Call us Call us Call us Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29 65.71
.03 .05 .07 .08 .09 .10 .11 .14 .15	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST, paint (2) heads SAND BLAST, paint (2) heads HILITE fins (2) heads WELD & rebuild cooling fins ULTRASONIC cleaning of (2) heads (ready for assembly)	Dealer Price Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29 65.71 37.14
.03 .05 .07 .08 .09 .10 .11 .14 .15	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST, (2) painted heads (ready to paint) SAND BLAST & paint (2) heads SAND BLAST, paint & highlight (2) heads HILITE fins (2) heads WELD & rebuild cooling fins	Dealer Price Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29 65.71 37.14 51.43
.03 .05 .07 .08 .09 .10 .11 .14 .15 .16	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST, paint (2) heads SAND BLAST, paint (2) heads HILITE fins (2) heads WELD & rebuild cooling fins ULTRASONIC cleaning of (2) heads (ready for assembly)	Dealer Price Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29 65.71 37.14 51.43 Retail
103 105 107 108 109 110 111 114 115 116	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST, (2) painted heads SAND BLAST, paint (2) heads HILITE fins (2) heads WELD & rebuild cooling fins ULTRASONIC cleaning of (2) heads (ready for assembly) LEAD: VALUE SEEAETS CNC 3 ANGLE seat job (2 heads) CNC 4 ANGLE seat job (2 heads)	Dealer Price Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29 65.71 37.14 51.43 Retail Price 110.00 120.00
2222 103 105 107 108 109 110 111 114 115 116 204 204 205 210 211	DISASSEMBLE & degrease (2) heads SODA BLAST carbon out of (2) heads GLASS BEAD (2) previously painted heads GLASS BEAD (2) unpainted heads SAND BLAST, (2) painted heads (ready to paint) SAND BLAST, paint & highlight (2) heads SAND BLAST, paint & highlight (2) heads HILITE fins (2) heads WELD & rebuild cooling fins ULTRASONIC cleaning of (2) heads (ready for assembly) MEAD: VALVE SEATS CNC 3 ANGLE seat job (2 heads)	Dealer Price Call us Call us	515.71 Retail Price 44.29 44.29 131.43 100.00 64.29 160.00 194.29 65.71 37.14 51.43 Retail Price 110.00

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MACHINING SERVICES FOR SHOVELHEAD Engines (1999-up)

		Dealer	Retail
	HEAD: VALVE GUIDES	Price	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
223	WELD & REPAIR valve guide receiver hole to std (includes 1 new valve guide & valve seat)	Call us	174.29
224	BORE CLEAN damaged valve guide receiver hole	Call us	94.29
226	CUT valve guide seal section	Call us	31.43

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

		Dealer	Retail
	HEAD: MISCELLANEOUS	Price	Price
245	INSTALL (1) spark plug helicoil	Call us	44.29
248	WELD & repair (1) spark plug hole (helicoil included)	Call us	124.29
251	MACHINE (2) heads dual plug	Call us	195.71
253	DUAL PLUG modification & welding for long plug (2 heads)	Call us	257.14
259	CONVERT early short plug to long plug & helicoil (2 heads)	Call us	257.14
265	WELD & REPAIR (1) intake flange lip	Call us	51.43
266	WELD & REPAIR exhaust bolt hole + helicoil	Call us	67.14
267	INSTALL (1) Helicoil for rocker box stud	Call us	35.71
268	INSTALL (1) Helicoil on exhaust flange	Call us	35.71
269	WELD & REPAIR 1 exhaust flange	Call us	128.57
264	MACHINE spring seat faces on early Shovels to install late style lower collars (2 heads)	Call us	45.00
262	WELD and REPAIR damaged combustion chamber	Call us	37.14
261	MODIFY early lower collars for valve seals installation	Call us	32.86

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MACHINING SERVICES FOR

SHOVELHEAD Engines (1999-up)

	CYLINDERS: BORING & HONING	Dealer Price	Retail Price
	Note: For EVO cylinders that are sent with base gaskets still adhered (late H-D gaskets are very difficult to remove), we will remove the gaskets by machining the lower deck. This operation also trues the cylinder lower deck.		
307	HONE & FIT only, (2) cylinders with stress plates	Call us	90.00
312	BORE, HONE & fit (2) cylinders with stress plates	Call us	155.71
313	SAME for 3 5/8" bore	Call us	170.00

		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
322	REFACE (2) cylinder upper decks + flange		Call us	88.57

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MACHINING SERVICES FOR

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SHOVELHEAD Engines (1999-up)

	CRANKS		Dealer Price	Retail Price
415	RECONDITION, assemble & true 1 crank & connecting rods (complete job, labor only)		Call us	350.00
	Rod races replacement	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

		Dealer	Retail
	ENGINE CASES	Price	Price
510	BORE case for Big bore cylinders (case must be assembled & torque, unnecessary to remove cylinder studs)	Call us	230.00
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
513	WELD & repair left case primary O ring lip (studs must be removed)	Call us	192.86
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
529	CONVERT SHOVEL case to EVO style (includes 8 long helicoils)	Call us	388.57
530	Replace & Fit cam bushing (labor only)	Call us	58.57
531	Replace & Fit pinion bushing (labor only)	Call us	44.29
532	Replace TIMKEN cups + "C" clip	Call us	44.29

		Dealer	Retail
	ENGINE CASES : ESTHETIC	Price	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

	MISCELLANEOUS	Dealer Price	Retail Price
606	REFACE & polish (4) rocker arms	Call us	91.43
609	REBUSH & align hone (4) rocker arms (labor only)	Call us	98.57
610	HONE & fit (4) oversize tappets	Call us	94.29
611	REPLACE, HONE & FIT transmission main shaft bushing (labor only)	Call us	96.43

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