



Hammer Performance

355 McGhee Road
Sandpoint, ID. 83864

Phone # (208)696-1250 <http://www.hammerperf.com>

Estimate

Date	Estimate #
7/19/2017	6200

Name / Address

				Project
Item	Description	Qty	Rate	Total
	1988-1990 XL883 110+hp 1275 Conversion, sans air cleaner and exhaust			
XL/Buell 1275 Ki...	Silver 3.596 Cylinder, 86-03	2	93.95	187.90T
3.596 Silver 86-...	HP 3600 XL30D5 3.600 30 Degree .500 Dome Piston	2	179.975	359.95T
HP 3600 XL30D5	Cometic 1986-90 Top End Gasket Kit, .030 3.600 Head/.020 Base	1	102.10	102.10T
C9907-3750	Hone cylinder and fit piston (each)	2	45.00	90.00T
Cylinder Honing	XL/Buell 1275 kit, Silver, 86-03 The above engine kit has silver small fin cylinders included. The cylinders are also available in straight black or black with highlighted fins, same price. The above also includes the optional upgrade to a Cometic EST full top end gasket set, which is recommended. Without this upgrade, the kit comes with head and base gaskets only and sells for \$699.95			739.95
Ring Gap and Pi...	Gap Rings and Assemble into Pistons This is our optional preassembly service. We precision gap your rings using our high-end gapping machine which does a perfect job every time, and then we assemble the pistons and rings into the cylinders and ship them in sealed plastic bags, ready for installation. This service greatly simplifies installation and eliminates the need for any special tools on your end.	1	40.00	40.00T
			Subtotal	
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Sledge Head Se...				
AV-1980-7TGB	1.980 Intake 7MM 4.455 TG	2	30.00	60.00T
F0318	1.615 Exhaust 7MM 4.651 SG	2	26.00	52.00T
VG6601	7 MM +.001 Intake Valve Guide	2	13.00	26.00T
VG6701	7 MM +.001 Exhaust Valve Guide	2	13.00	26.00T
V7MM-100	7MM Valve Guide Seal, for larger springs and lower collar, pack of 100	0.04	250.00	10.00T
Sledge Head Po...	7MM Sledge Head Porting	1	756.00	756.00T
	Sledge Head Porting Service 7mm			930.00
	As part of the SLEDGE porting service, we set up the valves to work properly with the cams below, and we also size your chambers to work with the 30 degree pistons in the above 1275 kit.			
7MM Spring Kit ...				
7256-16	Conical Valve Springs, 1.060x.660 top, 1.390x.990 bottom, 184lbs@1.850, 1.160 coil bind, set of 16	0.25	302.00	75.50T
E12028	7MM Titanium Retainer, 600 Lift	4	17.875	71.50T
18260-02	7MM locks Triple Groove	8	0.75	6.00T
LSC6000-4	AV&V Seat Locator, 600 Lift Beehive Spring - pack of 4	1	17.00	17.00T
	Striker Performance 7MM Valve Spring Kit 600 Lift Triple Groove Locks			170.00
	This is the premium spring pack which is standard with the SLEDGE head service and can handle up to .600 lift and is safe to 8000+rpm.			
Angled Squish B...	Cut Angled Squish Band (each)	2	0.00	0.00T
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33-5125	This is the machining operation that makes the chambers match the trick 30 degree reverse dome pistons in the above engine kit. We throw this in for free when someone buys both an engine kit and head work. S&S 600 Cam Set, 1986-90 XL	1	384.25	384.25T
HP45PG	Bronze Oil Pump Gear, Sportster/Buell	1	98.00	98.00T
Grindlock-9199	Pinion Gear Locking Tool, 1988-1999 XL, With Mounting Bolts XL's use a steel oil pump drive gear that becomes failure prone at higher power levels, and when it fails, it's really ugly. This was an especially bad problem with Buells due to their higher power levels, and HD finally came out with this bronze drive gear in 2006 to solve the problem, but they never put it in XL's. It's a nice upgrade when hopping up an XL, especially if you're in the cam box for a cam swap anyway, and it's cheap insurance against a catastrophic failure. The locking tool listed is necessary for proper installation.	1	50.00	50.00T
C9311F1	Cometic Cam Cover gasket 86-90 XL	1	13.00	13.00T
HPFLXL 10.333...	XL Intake Pushrod 10.333x.065x3/8 (-.020)	2	14.875	29.75T
HPFLXL 10.400...	XL Exhaust Pushrod 10.400x.065x3/8 (-.020)	2	14.875	29.75T
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	Corrections to the valvetrain geometry that we'll make as a part of setting up your heads for the cams, in combination with the thinner gaskets used to create a tighter squish clearance, create the need for somewhat shorter pushrods. These are high quality .065" wall heat treated chrome moly pushrods with Mae West ends. You cannot buy a finer pushrod.			
0927-0015	S&S Roller Rocker Arms	1	479.95	479.95T
90-4036	Rocker Shaft Set Roller rockers are normally used at this valve lift to reduce side loading on the valve. You can use your stock rockers however you'll get somewhat shorter valve guide life. Rocker shafts are recommended because they are a high wear item.	1	33.95	33.95T
SPX-9	Energy One Extra Plate Clutch Kit, 1984 - 1990 Sportster	1	135.50	135.50T
DS-223743	Clutch Spring, 20% stronger, Barnett, 86-90 XL		25.95	25.95T
DS-199221	Clutch Spring Compression Tool, 86-90 XL	1	56.95	56.95T
C9210	Cometic Primary Gasket, Seal, and O-Ring Kit, 86-90 XL	1	39.31	39.31T
2101-0027	Dyna 2000I PC Programmable Ignition Module This ignition module will let you select an appropriate ignition curve for your bike. Static time it per the instructions, set it on curve 4, and it'll be perfect.	1	265.95	265.95T
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2102-0226	Single Fire Coil, Drag Specialties, 2.4 ohm	1	85.95	85.95T
TM45-2	Mikuni HSR 45 mm Carburetor	1	438.95	438.95T
HS42/001-k	Mikuni to CV carb air box adapter	1	21.95	21.95T
HPXL4503C ASWXL 4503C	Billet Intake Manifold, HSR45/CV44, 88-06 XL, for Carb type heads	1	144.78	144.78T
42/45 Billet Mani... 29639-99	42/45 Billet Manifold Finishing 45MM/44MM Manifold Seal Ring (Grey) Billet Intake Manifold, HSR45/CV44, 88-06 XL, for Carb type heads	1 1	22.22 8.00	22.22T 8.00T 175.00
372-029	12 MM Spark Plug Index Washers	1	17.99	17.99T
IXU24	IXU24 Denso Iridium Spark Plug, Cold	2	10.95	21.90T
80312	Red Line Assembly Lube, 4 OZ	1	9.95	9.95T
Shipping and Ha...	Box 1, engine kit and parts, Shipping and Handling with insurance		0.00	0.00T
Shipping and Ha...	Box 2, heads, Shipping and Handling with insurance		0.00	0.00T

Subtotal	\$4,293.95
Sales Tax (0.0%)	\$0.00
Total	\$4,293.95