

## FVA MOTORS

### MOTOR #

TLFVA 001

Original spare to M4  
Removed from M4 to put in Bt30 at Elkhart  
Threw Rod at Elkhart  
New FVA block and rebuild  
Last Dyno 231 hp@9200 / 138 trq@8300

TLFVA 002

Purchased/Swap of FVC through  
New motor built up with NOS Parts  
Gear drive failure at Elkhart  
Rebuilt by  
Last Dyno 243 hp@9500/140trq@8400

TLFVA 003

Purchased from  
Currently at VDS for rebuild  
New Richardson head and parts  
VDS rebuild  
Last Dyno 228 hp@9700/129trq@8000

FVA#001

Frt #1  
Orig

Fuel cam in  
mode  
34-35° ADV

AT 5500  
Rpm

Listing of: (memory data)  
Channel Group: Corrected Power Page 1  
Printed on Oct 3, 2007 at 12:38:56  
Test Description: Accel. Test - 200 rpm/second

RECEIVED  
NOV - 3 2007  
BY:

10/07

EngSpd RPM	STPTrq Clb-ft	STPPwr CHp	Oil P psig	BSFC lb/hph	WtrOut degF	AirTmp degF	Fuel A lb/hr	BaroP inHg
5600	76.9	82.0	88.5	0.764	194	77	60.0	29.82
5700	76.0	82.5	88.5	0.829	194	77	65.5	29.82
5800	76.7	84.7	88.5	0.832	194	77	67.5	29.82
5900	76.7	86.2	88.1	0.820	194	77	67.7	29.82
6000	76.8	87.7	88.0	0.809	194	77	67.9	29.82
6100	77.8	90.4	88.0	0.787	194	77	68.1	29.82
6200	80.1	94.6	87.7	0.753	194	77	68.2	29.82
6300	83.4	100.0	87.6	0.720	194	77	69.0	29.82
6200	119.7	141.3	85.4	0.585	186	77	79.8	29.82
6230	125.7	149.1	85.3	0.564	187	77	81.2	29.82
6280	128.2	153.2	85.1	0.553	187	77	81.9	29.82
6320	130.4	156.9	85.8	0.526	188	77	79.7	29.82
6350	130.7	158.1	85.6	0.547	188	77	83.5	29.82
6400	130.7	159.3	85.6	0.543	188	77	83.5	29.82
6500	133.0	164.6	85.4	0.518	187	77	82.3	29.82
6600	133.3	167.5	84.4	0.525	187	77	84.9	29.82
6700	134.8	172.0	83.2	0.535	185	77	88.8	29.82
6800	132.8	172.0	82.8	0.517	182	77	85.8	29.82
6900	133.8	175.8	82.1	0.517	182	77	87.8	29.83
7000	133.3	177.7	81.9	0.526	182	77	90.2	29.83
7100	130.4	176.3	81.3	0.539	184	77	91.6	29.83
7200	131.9	180.8	80.4	0.536	179	77	93.4	29.83
7300	132.5	184.1	81.0	0.519	182	77	92.2	29.83
7400	133.7	188.4	81.1	0.529	178	77	96.1	29.83
7500	135.8	194.0	81.2	0.506	179	77	94.5	29.83
7600	136.4	197.4	80.6	0.511	182	77	97.1	29.83
7700	134.9	197.8	80.5	0.511	184	77	97.4	29.83
7800	135.0	200.4	79.3	0.515	186	77	99.3	29.83
7900	133.4	200.6	79.4	0.522	185	77	100.7	29.82
8000	133.7	203.7	79.3	0.514	186	77	100.6	29.82
8100	136.4	210.4	79.1	0.498	187	77	100.7	29.82
8200	137.8	215.1	79.4	0.515	178	77	106.4	29.82
8300	138.0	218.0	78.4	0.502	183	77	105.2	29.83
8400	135.8	217.1	77.7	0.505	183	77	105.3	29.83
8500	136.0	220.1	74.7	0.526	188	77	111.1	29.83
8600	134.7	220.6	74.4	0.531	182	77	112.4	29.82
8700	133.1	220.4	75.1	0.546	177	77	115.3	29.82
8800	132.0	221.2	75.6	0.546	185	77	115.7	29.83
8900	131.0	222.1	76.4	0.548	185	77	116.6	29.83
9000	130.1	222.9	78.3	0.541	188	77	115.5	29.83
9100	131.1	227.1	80.7	0.556	192	77	120.6	29.82
9200	131.8	230.9	83.3	0.541	192	77	119.4	29.82

# VELOCE MOTORS WEST

426 Petaluma Blvd. North, Petaluma, CA 94952-2873  
 ph. (707) 765-1326 fax (707) 765-1314  
 e-mail: velocemotors@sbcglobal.net

# INVOICE

Page 1 of 3

INVOICE # 1931.2  
 DATE 3-Sep-07  
 WRITER nvegner

BILL TO:	SHIP TO:
CUST. #	ph. E-MAIL
	fax

Stamp: OCT 29 2007  
 BY:

ORDER DATE 1/17/2007	TERMS OF PAYMENT upon receipt	SHIP DATE
CUST. PO. NO. verbal	FOB POINT shop, Petaluma, CA	SHIP VIA
RESALE NO. n/a	PAYMENT TYPE personal check okay	WAY BILL #

NOTES: FVC/FVA engine #1(new block): To invoice for labor, parts & materials to re-build;( ref invoice # 1895 and # 1931.1 - some parts & freight already paid)

ALL VALUES SHOWN IN US DOLLARS

QTY.	TYPE	DESCRIPTION	UNIT PRICE	EXTENSION
		<b>LABOR</b>		
		<u>2006 Pricing</u>	80.00	/hr. - standard
			85.00	/hr. - machinist
1	lot	Disassemble, clean & inspect engine components		incl.
1		Engine rebuild		3600.00
2	hr	Inspect head, valves, & guides; remove valve guides from head; grind valves; measure guides for fit	85.00	170.00
1.75	hr	Open & blend ports; turn down valve guides .001"; install & hone valve guides for fit	85.00	148.75
1	lot	Perform precision valve job		incl.
3	hr	Machine piston domes on lathe & mill	85.00	255.00
0.5	hr	Mock up motor w/ piston & valves to check valve lift & piston to valve clearance	85.00	42.50
3	hr	Mill piston valve pockets; hand finish edges	85.00	255.00
0.5	hr	Measure volume of combustion chamber; mock-up block w/ piston & determine compression ratio	85.00	42.50
0.75	hr	Balance pistons	85.00	63.75
1.25	hr	Fit & install oil pump & distributor drive gears	85.00	106.25
0.5	hr	Machine stop for slide throttle	85.00	42.50
1	hr	Install three keenserts		85.00
0.25	hr	Modify 1/2x1/2 fitting for oil inlet	85.00	21.25
1	lot	Engine Dyno Session		1000.00
1	lot	Post dyno inspection		incl.
		<b>LABOR - TOTAL</b>		<b>5832.50</b>
		<b>OUTSIDE SERVICES</b>		
1	lot	Balance new crank		75.00
1	lot	Coating on pistons		145.00
1	lot	Coating on bearings		100.00
2	lot	Shipping on pistons & bearings for coating		60.00

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# INVOICE

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INVOICE # 1931.2  
 DATE 3-Sep-07  
 WRITER nvegher

1	lot	Pressure check block		
1	lot	Hone block to finished size		85.00
1	lot	Machine torsion bar; press new gear & torsion bar into crankshaft		250.00
1	lot	Metering unit rebuild, 6mm, complete		150.00
4	lot	Injectors rebuild		2800.00
1	lot	Machine seat bores, chambers; install new seats; cut & radius seats from head repair to spec heights; fettle chamber (pd on invoice 1931.1)	48.00	192.00
				pd
				0.00
<b>OUTSIDE SERVICES - TOTAL</b>				<b>3857.00</b>
<b><u>PARTS &amp; MATERIALS</u></b>				
1	set	Cosworth FVC pistons		950.00
1	set	Piston rings		220.00
1	set	Carrillo rods		1450.00
1		Pilot bushing		14.50
1		Quill shaft		pd
8		Tappets		pd
16		Valves	34.77	278.16
16		Valve springs	42.00	672.00
16		Valve platforms	44.00	704.00
8		Valve keepers		0.00
16		Valve seats	3.95	31.60
16		valve retainers	19.00	pd
16		Valve seals	9.50	152.00
16		Valve lash caps	5.00	80.00
4		Valve followers	5.25	84.00
1	set	Main bearings	32.11	128.44
1	set	Rod bearings		115.00
1	set	Thrust bearings		160.00
1		Rotor & sleeve in oil pump scavenge		38.50
1		Rear seal		70.00
1		Front seal		38.00
2		Ball bearings for gears		22.00
1		Metering unit drive belt 150x1037	16.50	33.00
1		Hp fuel pump drive belt 180x1037	12.90	15.75
3		O- rings, fuel pump	14.00	15.90
3		Keenserts	2.60	7.80
3		Cam tray dowels, 7/16"	6.75	20.25
1		Cam tower stud, multi-stepped	7.50	22.50
12		Stato seals, 1/4"		35.48
10		ARP washers for mains	2.25	27.00
4		Spark plugs	1.15	11.50
1	set	FVA ignition boots (4) at head	7.50	30.00
1	ft	Hose - 1/1/2"		162.75
8		Fine thread bolts 5/16"x2"		15.00
10		5/16-1Bx3/4-1"	0.98	7.84
1		Head gasket	1.20	12.00
1		Pan gasket		125.00
1		Valve cover gasket		37.00
1		Front chest gasket		24.00
1		Oil pump gasket		8.70
				4.25

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# INVOICE

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INVOICE # 1931.2  
 DATE 3-Sep-07  
 WRITER nvegher

1		Front cover to head gasket		8.50
1	set	Plug wires		75.00
1	set	Flywheel dowel & fitting		40.00
12		Flywheel bolts	8.50	102.00
1		Freeze plug (back of block)		4.75
1		1/2" BSP to 1/2" Bsp fitting	6.50	6.50
2		1/2" BSP to 5/8" Bsp fitting	7.25	14.50
4		1/2" Bsp dowdy washers	1.95	7.80
2		"O" rings for water log in block	1.25	2.50
1		3/8" BSP to -6 fitting for metering unit		7.60
1		1/4" BSP to -6 fitting for metering unit		5.95
4		1/4" pipe plugs	0.50	2.00
10		Head nuts (special)	0.70	7.00
1	lot	Miscellaneous hardware (pan, front cover, rear cover, valve cover, etc.)		20.00
4		Studs, 5/16", for cam tray	2.00	8.00
1		Viton seal, 15x24x7		15.80
1		FVC block		(pd on invoice 1895) pd
1		FVC front cover		(pd on invoice 1895) pd
1		FVC crankshaft		(pd on invoice 1895) pd
				0.00
<b>PARTS - TOTAL</b>				<b>6151.82</b>
<b>MATERIALS</b>				
0.5	tube	silicone, pure, white	16.00	8.00
8	gal	Gas	7.50	60.00
12	qt	Engine oil (Penzoil 25/50)	4.85	58.20
4	can	Brake/sensitive surface cleaner	4.00	16.00
1	lot	Hazardous waste disposal fee	7.50	7.50
<b>MISCELLANEOUS - TOTAL</b>				<b>149.70</b>
		<b>TOTAL LABOR</b>		<b>5832.50</b>
		<b>TOTAL OUTSIDE SERVICES</b>		<b>3857.00</b>
		<b>TOTAL PARTS</b>		<b>6151.82</b>
		<b>TOTAL MATERIALS</b>		<b>149.70</b>
		<b>SUB-TOTAL</b>		<b>15991.02</b>
		<b>TAX</b>	7.75%	<b>out of state</b>
		<b>TOTAL</b>		<b>\$15,991.02</b>
		<b>DEPOSIT</b>		<b>0.00</b>
		<b>BALANCE DUE</b>		<b>\$15,991.02</b>

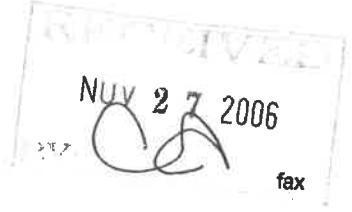
Please remit to: Veloce Motors West, 426 Petaluma Blvd. North, Petaluma, CA 94952-2873

*THANK YOU FOR YOUR BUSINESS!*

*Due to the stresses imposed by racing on parts, there are no warranties express or implied  
 RESPONSIBILITY FOR THE OPERATION OF THE ENGINE RESTS SOLELY ON THE END USER*

INVOICE # 1895  
 DATE 15-Nov-06  
 WRITER nvegher

BILL TO:	SHIP TO:
CUST. #	ph. E-MAIL



ORDER DATE	TERMS OF PAYMENT upon receipt	SHIP DATE
CUST. PO. NO. verbal	FOB POINT shop, Petaluma, CA	SHIP VIA
RESALE NO. n/a	PAYMENT TYPE personal check okay	WAY BILL #

NOTES: FVC engine: To invoice for parts & materials special ordered from U.K. to re-build

QTY.	TYPE	DESCRIPTION	UNIT PRICE	EXTENSION
		<b>LABOR</b>		
			80.00	/hr. - standard
		<b>LABOR - TOTAL</b>		0.00
				0.00
1	lot	<b>OUTSIDE SERVICES</b>		
1	lot	Remove front timing main gear from damaged existing crank shaft; install new quill shaft into main gear; install on crank		108.00
		Duty on Uk parts (shipping to be billed separately)		0.00
		<b>OUTSIDE SERVICES - TOTAL</b>		292.68
				400.68
1		<b>PARTS &amp; MATERIALS</b>		
1		Quill shaft		295.00
1		FVC cylinder block		8750.00
1		FVC front cover		1375.00
1		FVC crankshaft		3375.00
		<b>PARTS - TOTAL</b>		13795.00
		<b>MISCELLANEOUS</b>		
		<b>MISCELLANEOUS - TOTAL</b>		0.00
		<b>TOTAL LABOR</b>		0.00
		<b>TOTAL OUTSIDE SERVICES</b>		400.68
		<b>TOTAL PARTS</b>		13795.00
		<b>SUB-TOTAL</b>		14195.68
		<b>SHIPPING TAX</b>		0.00
		<b>TOTAL</b>	7.75%	out of state
		<b>DEPOSIT</b>		\$14,195.68
		<b>BALANCE DUE</b>		0.00
				\$14,195.68

Please remit to: Veloce Motors West, 426 Petaluma Blvd. North, Petaluma, CA 94952-2873  
 THANK YOU FOR YOUR BUSINESS!

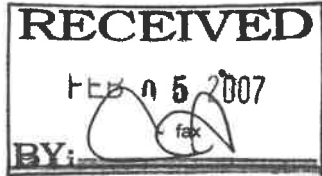
**MOTORS WEST**

**INVOICE**

Page 1 of 1

426 Petaluma Blvd. North, Petaluma, CA 94952-2873  
 Tel: (707) 765-1326 fax (707) 765-1314  
 Email: velocemotors@sbcglobal.net

INVOICE # 1931.1  
 DATE 22-Jan-07  
 WRITTEN BY nvegher

BILL TO:	SHIP TO:
	
	ph. E-MAIL

ORDER DATE	TERMS OF PAYMENT upon receipt	SHIP DATE
CUST. PO. NO. verbal	FOB POINT shop, Petaluma, CA	SHIP VIA
RESALE NO. n/a	PAYMENT TYPE company check okay	WAY BILL #

NOTES: FVA engine rebuild; interim billing

ALL VALUES SHOWN IN US DOLLARS

QTY.	DESCRIPTION	UNIT PRICE	EXTENSION
	<b>LABOR</b>		
1	lot Freight in on FVA block, crank & front cover from UK (duty already paid)		506.72
1	lot Machine seat bores, chambers; install new seats; cut & radius seats to spec heights; fettle chambers; re-surface		1879.00
	<b>TOTAL LABOR</b>		2385.72
	<b>PARTS</b>		
16	Valve seats	19.00	304.00
	<b>SUB-TOTAL</b>		2689.72
	<b>TAX</b>	7.75%	out of state
	<b>TOTAL</b>		<b>\$ 2,689.72</b>
	<b>DEPOSIT</b>		0.00
	<b>BALANCE DUE</b>		<b>\$ 2,689.72</b>

Please remit to: Veloce Motors West, 426 Petaluma Blvd. North, Petaluma, CA 94952-2873

**THANK YOU FOR YOUR BUSINESS!**

7LFVA 002



10903 N. Industrial Dr.  
Mequon, WI 53092  
(262) 238-1133  
Fax 238-8611  
[www.sportscarservices.net](http://www.sportscarservices.net)

- Complete Service & Maintenance
- Restoration
- Competition Preparation
- Parts



## BILL OF SALE

January 12, 2006

Received from \_\_\_\_\_ in the amount of \$35,000.00 in payment for (1 ) one FVA Cosworth racing power plant. This engine was taken possession of by \_\_\_\_\_ @ Veloce Motors West in North Petaluma, CA. The engine was the property of \_\_\_\_\_, who received the proceeds of this check.

A handwritten signature in blue ink, appearing to read "Bill Dredge".

Bill Dredge  
Sportscar Services & Racing, Ltd.



Listing of: (memory data)

Channel Group: Corrected Power Page 1

Printed on Nov 9, 2007 at 15:15:14

Test Description: Accel. Test - 200 rpm/second

11/07

EngSpd RPM	STPTrq Clb-ft	STPPwr CHp	Oil P psig	BSFC lb/hph	WtrOut degF	AirTmp degF	Fuel A lb/hr	BaroP inHg
6600	79.6	100.1	80.5	0.470	188	77	44.6	29.72
5590	80.7	85.9	82.4	0.764	188	77	62.5	29.72
5520	68.7	72.2	82.7	0.922	187	77	63.2	29.72
5570	61.3	65.0	82.6	1.055	187	77	64.8	29.72
6700	64.9	82.9	83.2	0.853	187	77	66.5	29.72
6800	69.4	89.8	83.2	0.797	187	77	67.5	29.72
6900	69.4	91.2	83.2	0.786	187	77	67.5	29.72
6470	146.7	180.7	83.6	0.431	186	77	74.9	29.72
6250	129.2	153.8	83.8	0.509	185	77	75.2	29.72
6210	127.1	150.3	83.7	0.525	185	77	75.8	29.72
6260	126.1	150.4	83.7	0.531	184	77	76.7	29.72
6320	127.0	152.8	83.8	0.517	184	77	75.8	29.72
6360	129.0	156.2	83.7	0.519	184	77	77.8	29.72
6420	131.7	161.0	83.4	0.510	184	77	78.9	29.72
6460	132.0	162.3	83.7	0.506	184	77	78.9	29.72
6530	134.0	166.7	83.8	0.492	184	77	78.8	29.72
7000	136.2	181.5	84.5	0.481	184	77	83.8	29.72
7100	135.5	183.2	84.7	0.498	184	77	87.5	29.72
7200	135.9	186.3	85.1	0.490	184	77	87.5	29.72
7300	136.4	189.5	85.7	0.490	184	77	88.9	29.72
7400	136.4	192.2	86.3	0.483	185	77	88.9	29.72
7500	137.0	195.6	86.7	0.464	186	77	86.8	29.72
7600	137.6	199.1	87.2	0.469	186	77	89.3	29.72
7700	136.6	200.3	87.1	0.466	187	77	89.2	29.72
7800	137.7	204.5	87.8	0.454	189	77	88.7	29.72
7900	137.2	206.4	88.1	0.470	189	77	92.6	29.72
8000	138.1	210.4	88.6	0.470	188	77	94.5	29.72
8100	139.4	215.0	88.9	0.476	189	77	97.8	29.72
8200	139.5	217.7	89.4	0.470	189	77	97.7	29.72
8300	139.7	220.8	90.1	0.450	189	77	94.8	29.72
8400	139.8	223.6	90.2	0.475	191	77	101.2	29.72
8500	138.9	224.8	90.5	0.472	191	77	101.1	29.72
8600	138.5	226.8	90.7	0.474	192	77	102.3	29.72
8700	138.2	229.0	91.5	0.470	189	77	102.4	29.72
8800	137.6	230.5	91.6	0.498	192	77	109.2	29.72
8900	137.1	232.4	91.8	0.492	193	77	108.7	29.72
9000	136.5	233.9	91.4	0.479	192	77	106.5	29.72
9100	134.8	233.6	92.0	0.502	192	77	111.4	29.72
9200	135.1	236.6	92.2	0.503	193	77	112.9	29.72
9300	134.6	238.4	92.9	0.500	193	77	113.1	29.72
9400	134.0	239.8	92.9	0.510	193	77	115.9	29.72
9500	134.1	242.5	92.7	0.517	192	77	118.8	29.72

Listing of: (memory data)

Channel Group: Corrected Power Page 1

Printed on Nov 9, 2007 at 15:16:11

Test Description: Accel. Test - 200 rpm/second

EngSpd RPM	STPTrq Clb-ft	STPPwr CHp	Oil P psig	BSFC lb/hph	WtrOut degF	AirTmp degF	Fuel A lb/hr	BaroP inHg
6600	79.6	100.1	80.5	0.470	188	77	44.6	29.72
5590	80.7	85.9	82.4	0.764	188	77	62.5	29.72
5520	68.7	72.2	82.7	0.922	187	77	63.2	29.72
5570	61.3	65.0	82.6	1.055	187	77	64.8	29.72
6700	64.9	82.9	83.2	0.853	187	77	66.5	29.72
6800	69.4	89.8	83.2	0.797	187	77	67.5	29.72
6900	69.4	91.2	83.2	0.786	187	77	67.5	29.72
6470	146.7	180.7	83.6	0.431	186	77	74.9	29.72
6250	129.2	153.8	83.8	0.509	185	77	75.2	29.72
6210	127.1	150.3	83.7	0.525	185	77	75.8	29.72
6260	126.1	150.4	83.7	0.531	184	77	76.7	29.72
6320	127.0	152.8	83.8	0.517	184	77	75.8	29.72
6360	129.0	156.2	83.7	0.519	184	77	77.8	29.72
6420	131.7	161.0	83.4	0.510	184	77	78.9	29.72
6460	132.0	162.3	83.7	0.506	184	77	78.9	29.72
6530	134.0	166.7	83.8	0.492	184	77	78.8	29.72
7000	136.2	181.5	84.5	0.481	184	77	83.8	29.72
7100	135.5	183.2	84.7	0.498	184	77	87.5	29.72
7200	135.9	186.3	85.1	0.490	184	77	87.5	29.72
7300	136.4	189.5	85.7	0.490	184	77	88.9	29.72
7400	136.4	192.2	86.3	0.483	185	77	88.9	29.72
7500	137.0	195.6	86.7	0.464	186	77	86.8	29.72
7600	137.6	199.1	87.2	0.469	186	77	89.3	29.72
7700	136.6	200.3	87.1	0.466	187	77	89.2	29.72
7800	137.7	204.5	87.8	0.454	189	77	88.7	29.72
7900	137.2	206.4	88.1	0.470	189	77	92.6	29.72
8000	138.1	210.4	88.6	0.470	188	77	94.5	29.72
8100	139.4	215.0	88.9	0.476	189	77	97.8	29.72
8200	139.5	217.7	89.4	0.470	189	77	97.7	29.72
8300	139.7	220.8	90.1	0.450	189	77	94.8	29.72
8400	139.8	223.6	90.2	0.475	191	77	101.2	29.72
8500	138.9	224.8	90.5	0.472	191	77	101.1	29.72
8600	138.5	226.8	90.7	0.474	192	77	102.3	29.72
8700	138.2	229.0	91.5	0.470	189	77	102.4	29.72
8800	137.6	230.5	91.6	0.498	192	77	109.2	29.72
8900	137.1	232.4	91.8	0.492	193	77	108.7	29.72
9000	136.5	233.9	91.4	0.479	192	77	106.5	29.72
9100	134.8	233.6	92.0	0.502	192	77	111.4	29.72
9200	135.1	236.6	92.2	0.503	193	77	112.9	29.72
9300	134.6	238.4	92.9	0.500	193	77	113.1	29.72
9400	134.0	239.8	92.9	0.510	193	77	115.9	29.72
9500	134.1	242.5	92.7	0.517	192	77	118.8	29.72

# VELOCE MOTORS WEST


426 Petaluma Blvd. North, Petaluma, CA 94952-2873  
 ph. (707) 765-1326 fax (707) 765-1314  
 e-mail: velocemotors@sbcglobal.net

# INVOICE

Page 1 of 3

INVOICE # 2028  
 DATE 28-Nov-07  
 WRITER nvegher

LS

BILL TO:	SHIP TO: J & L Fabrication	
CUST. #	ph. E-MAIL	

ORDER DATE	TERMS OF PAYMENT upon receipt	SHIP DATE 11/27/2007
CUST. PO. NO. verbal	FOB POINT shop, Petaluma, CA	SHIP VIA BAX
RESALE NO. n/a	PAYMENT TYPE personal check okay	WAY BILL # 695940066

NOTES: engine #2 w/valve train damage: To invoice for labor, parts & materials to re-build

ALL VALUES SHOWN IN US DOLLARS

QTY.	TYPE	DESCRIPTION	UNIT PRICE	EXTENSION
		<b>LABOR</b>	85.00	fr. - standard
			90.00	fr. - machinist
1	lot	Disassemble, clean & inspect engine components		incl.
1		Engine rebuild		3600.00
1	hr	Detail out bottom of block	90.00	90.00
1	hr	Rid bores, jackshaft, block & crankshaft of major dents & impressions left by gear shrapnel	90.00	90.00
2.75	hr	Make spacers for three gear idle shafts & fit	90.00	247.50
0.75	hr	Replace distributor gear	85.00	63.75
2	hr	Test assemble engine: c.c. for compression ratio & adjust	85.00	170.00
1	hr	Debur & detail piston crowns by machining pistons	85.00	85.00
1	lot	Engine Dyno Session		1000.00
1	lot	Post dyno inspection		incl. 0.00
<b>LABOR - TOTAL</b>				<b>5346.25</b>
		<b>OUTSIDE SERVICES</b>		
1	lot	Mag check & polish crank		100.00
1	lot	Coating on bearings		100.00
2	lot	Shipping on pistons & bearings for coating		30.00
	lot	R & R valve guides		525.00

**VELOCE MOTORS WEST**

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**INVOICE**

Page 2 of 3

INVOICE # 2028  
 DATE 28-Nov-07  
 WRITER nvegher

1	lot	Grind cams		240.00
				0.00
<b>OUTSIDE SERVICES - TOTAL</b>				<b>995.00</b>
		<b><u>PARTS &amp; MATERIALS</u></b>		0.00
1		Quilt shaft		325.00
1	set	Pistons		950.00
1	set	Piston rings		220.00
1	set	Rods, Carrillo		1450.00
16		Valves	67.50	1080.00
16		Valve guides	45.82	733.12
16		Valve followers	32.11	513.76
16		Valve lash caps	5.25	84.00
16		Valve seals	5.00	80.00
3		Bearings, 6002	22.65	67.95
1	set	Main bearings		115.00
1	set	Rod bearings		160.00
10		Head nuts	4.50	45.00
10		Head washers	0.30	3.00
4		Studs, cam tray	5.50	22.00
1		Oil pump gear		70.00
1		Scavenge oil pump rotor & sleeve		70.00
1		Thrust washer, .010 OS		42.25
1		Gasket, head		125.00
1		Gasket, valve cover		24.00
1		Gasket, top chest		8.50
1		Gasket, front block		8.70
4		Gaskets, exhaust	6.92	27.68
1		Distributor gear		70.00
4		Spark plugs	8.50	34.00
				0.00
		<b><u>FROM TOM LEE'S SPARES</u></b>		
1		Crank gear		NC
1		Idle gear		NC
1		Cam drive gear		NC
1		Top gear in block		NC
		<b><u>INVOICE # 1931.2 - items listed. not charged for</u></b>		
18		Valve platforms	12.50	200.00
				0.00
				0.00
<b>PARTS - TOTAL</b>				<b>6528.98</b>
		<b><u>MATERIALS</u></b>		
0.5	tube	silicone, pure, white	25.50	12.75
	gal	Gas	7.50	0.00
12	qt	Engine oil (Penzoil 25/50)	4.85	58.20
4	can	Brake/sensitive surface cleaner	4.00	16.00
	lot	Safety wire		0.00

**VELOCE MOTORS WEST**

426 Petaluma Blvd. North, Petaluma, CA 94952-2873  
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**INVOICE**

Page 3 of 3

INVOICE # 2028  
 DATE 28-Nov-07  
 WRITER nvegher

1	lot	Hazardous waste disposal fee	7.50	7.50
<b>MISCELLANEOUS - TOTAL</b>				<b>94.45</b>
		TOTAL LABOR		5346.25
		TOTAL OUTSIDE SERVICES		995.00
		TOTAL PARTS		6528.96
		TOTAL MATERIALS		94.45
		<b>SUB-TOTAL</b>		<b>12964.66</b>
		SHIPPING		345.15
		TAX	7.75%	out of state
		<b>TOTAL</b>		<b>\$13,309.81</b>
		DEPOSIT		0.00
		<b>BALANCE DUE</b>		<b>\$13,309.81</b>

Please remit to: Veloce Motors West, 426 Petaluma Blvd. North, Petaluma, CA 94952-2873

*THANK YOU FOR YOUR BUSINESS!*

*DUE TO THE STRESSES IMPOSED BY RACING THERE ARE NO WARRANTIES ON PARTS EXPRESS OR IMPLIED.  
 SOLE RESPONSIBILITY FOR THE OPERATION OF THE ENGINE RESTS ON THE END USER*

TLFVA#003

Dynamometer Test Results

VDS Racing Engines  
 2001 East Main Street  
 Danville IN 46122  
 (317) 745-6373

Test: FVA TL 659-1-2 on 2011-01-08 @ 14:03:00  
 Date: 1/8/2011  
 Correction Method: Standard

RPM	Obs-Tq (ft-lb)	Obs-Pwr (Hp)	CF STP	C-Torque (ft-lb)	CHp	Air	Baro (in Hg)	AFR	Fuel P (PSI)	CCP (lb/ft <sup>2</sup> )	Oil Pres (PSI)	Scavenge (PSI)	ECT	EGT #1	EGT #2	EGT #3	EGT #5	VDC	RPM
6000	112.4	128.4	1.033	116.7	133.4	60.0	29.01	12.48	120.1	29.55	70.1	4.6	183	1111	1179	1148	1175	12.1	6000
6100	111.7	129.7	1.033	116.1	134.8	60.0	29.01	12.63	120.0	29.53	69.4	4.6	179	1100	1132	1085	1123	12.1	6100
6200	115.9	137.1	1.033	120.5	142.4	60.0	29.01	13.38	120.0	29.55	69.6	4.6	179	1109	1139	1096	1128	12.1	6200
6300	119.0	142.7	1.033	123.6	148.3	60.0	29.01	13.60	120.1	29.56	70.0	4.6	179	1121	1147	1107	1131	12.1	6300
6400	121.0	147.6	1.033	125.7	153.4	60.0	29.01	13.58	120.2	29.56	70.6	4.6	179	1127	1153	1119	1136	12.1	6400
6500	122.5	151.7	1.033	127.3	157.6	60.0	29.02	13.35	120.3	29.57	69.0	4.7	179	1132	1159	1131	1141	12.1	6500
6600	122.3	153.6	1.033	127.1	159.6	60.0	29.02	13.10	120.3	29.58	69.0	4.7	178	1134	1161	1137	1144	12.1	6600
6700	120.7	154.1	1.033	125.5	160.2	60.0	29.02	12.83	120.4	29.58	70.9	4.7	178	1134	1162	1138	1144	12.1	6700
6800	119.9	155.4	1.033	124.7	161.6	60.0	29.02	12.59	120.4	29.57	74.5	4.7	178	1137	1164	1136	1145	12.1	6800
6900	119.2	156.6	1.033	124.0	162.8	60.0	29.02	12.39	120.5	29.57	76.4	4.7	178	1137	1165	1132	1146	12.1	6900
7000	118.0	157.3	1.033	122.7	163.6	60.0	29.02	12.36	120.5	29.57	75.4	4.7	178	1137	1165	1130	1146	12.1	7000
7100	117.5	158.8	1.033	122.2	165.2	60.0	29.02	12.39	120.5	29.58	74.4	4.7	178	1138	1166	1129	1147	12.1	7100
7200	117.8	161.6	1.033	122.6	168.1	60.0	29.02	12.50	120.5	29.59	74.2	4.7	178	1141	1168	1128	1148	12.1	7200
7300	118.9	165.3	1.033	123.7	172.0	60.0	29.02	12.59	120.5	29.61	74.4	4.8	178	1145	1171	1130	1151	12.1	7300
7400	120.6	169.9	1.033	125.5	176.8	60.0	29.02	12.69	120.5	29.63	75.1	4.8	178	1148	1174	1133	1154	12.1	7400
7500	122.5	174.9	1.033	127.5	182.0	60.0	29.02	12.89	120.5	29.66	76.0	4.8	178	1154	1178	1137	1159	12.0	7500
7600	124.2	179.8	1.033	129.3	187.1	60.0	29.02	13.15	120.6	29.69	77.1	4.8	178	1160	1183	1145	1164	12.0	7600
7700	125.7	184.2	1.033	130.8	191.7	60.0	29.02	13.40	120.6	29.72	78.2	4.8	178	1166	1187	1152	1171	12.0	7700
7800	126.6	188.1	1.033	131.8	195.7	60.0	29.02	13.56	120.7	29.73	78.5	4.8	178	1173	1193	1157	1175	12.0	7800
7900	127.7	192.2	1.033	132.9	200.0	60.0	29.02	13.65	120.7	29.74	79.1	4.9	178	1178	1196	1164	1180	12.0	7900
8000	129.0	196.5	1.033	134.3	204.6	60.0	29.02	13.68	120.8	29.76	79.8	4.9	178	1186	1200	1172	1185	12.0	8000
8100	129.0	199.0	1.033	134.3	207.2	60.0	29.02	13.69	120.8	29.78	80.1	4.9	178	1196	1205	1179	1192	12.0	8100
8200	128.5	200.7	1.033	133.8	209.0	60.0	29.02	13.61	120.8	29.8	80.9	5.0	178	1204	1211	1185	1201	12.0	8200
8300	128.0	202.3	1.033	133.3	210.6	60.0	29.02	13.57	120.8	29.81	81.8	5.0	178	1213	1216	1192	1209	12.0	8300
8400	127.1	203.4	1.033	132.4	211.8	60.0	29.02	13.38	120.8	29.81	82.6	5.1	178	1221	1221	1199	1215	12.0	8400
8500	126.7	205.2	1.033	132.0	213.8	60.0	29.02	13.15	120.8	29.81	83.2	5.1	178	1227	1227	1203	1219	12.0	8500
8600	127.4	208.5	1.033	132.8	217.3	60.0	29.02	13.01	120.8	29.81	84.2	5.1	178	1234	1232	1209	1222	12.0	8600
8700	127.2	210.7	1.033	132.6	219.6	60.0	29.02	12.91	120.7	29.81	84.3	5.2	179	1239	1237	1213	1228	12.0	8700
8800	126.5	211.9	1.033	131.8	220.9	60.0	29.02	12.74	120.6	29.82	84.9	5.2	179	1243	1242	1216	1234	12.0	8800
8900	126.1	213.7	1.033	131.4	222.8	60.0	29.02	12.60	120.6	29.82	85.3	5.3	179	1244	1247	1221	1238	12.0	8900
9000	125.4	215.1	1.033	130.8	224.3	60.0	29.02	12.44	120.8	29.83	85.7	5.3	179	1245	1253	1228	1245	12.0	9000
9100	124.2	215.0	1.033	129.5	224.3	60.0	29.02	12.32	120.9	29.85	85.7	5.4	179	1247	1261	1231	1248	11.9	9100
9200	122.6	214.8	1.033	127.9	224.1	60.0	29.02	12.18	120.9	29.86	86.2	5.5	179	1248	1267	1232	1251	11.9	9200
9300	121.8	215.7	1.033	127.1	225.1	60.0	29.02	12.16	120.6	29.87	86.8	5.5	179	1250	1273	1234	1254	11.9	9300
9400	120.8	216.2	1.033	126.1	225.7	60.0	29.02	12.07	120.6	29.89	87.1	5.6	179	1255	1279	1235	1257	11.9	9400
9500	119.9	217.0	1.033	125.2	226.5	60.0	29.02	12.06	120.4	29.9	87.1	5.7	179	1260	1286	1237	1259	11.9	9500
9600	118.9	217.6	1.033	124.1	227.2	60.0	29.02	12.07	120.5	29.9	87.9	5.8	179	1270	1296	1240	1263	11.9	9600
9700	118.0	217.9	1.033	123.2	227.6	60.0	29.02	12.11	120.4	29.85	88.6	5.9	179	1281	1304	1245	1266	11.9	9700
9800	116.2	216.8	1.033	121.4	226.5	60.0	29.02	12.15	120.6	29.83	89.0	6.0	179	1287	1308	1247	1270	11.9	9800
9900	114.0	215.1	1.033	119.2	224.9	60.0	29.02	12.20	120.6	29.82	88.9	6.1	179	1289	1310	1249	1272	11.9	9900
10000	112.4	214.0	1.033	117.5	223.8	60.0	29.02	12.28	120.6	29.83	89.5	6.2	179	1290	1311	1249	1274	11.9	10000

Prepared For:  
Louie Shefchik



1/11/2008

Quantity	Units	Item	Comments	Price	
				Each	Extended
2	Each	Bearing Idler Gear Front	Estimate	\$32.00	\$64.00
2	Each	Bearing Idler Gear Rear	New	\$11.78	\$23.55
1	Set	Bearings Jackshaft	New	\$16.42	\$16.42
8	Each	Connecting Rod Bearing Shells	New	\$15.48	\$123.88
4	Each	Connecting Rods	New Carrillo	\$355.00	\$1,420.00
1	Each	Crankshaft Front Seal	New	\$23.49	\$23.49
1	Each	Crankshaft Pilot Bearing	Bronze Bushing	\$8.53	\$8.53
1	Each	Crankshaft Rear Seal	New	\$33.59	\$33.59
1	Set	Crankshaft Thrust Washer	New	\$11.66	\$11.65
1	Each	Flywheel Alignment Spud	New	\$18.45	\$18.45
12	Each	Flywheel Bolts	Custom ARP	\$9.81	\$118.35
1	Each	Gear Compound (Large)	Estimate	\$576.56	\$576.56
1	Set	Main Bearings	Std/Std	\$74.82	\$74.82
4	Each	Piston Ring Compression Second	New/Low Friction	\$47.48	\$189.85
4	Each	Piston Ring Compression Top	New/Low Friction	\$64.38	\$257.50
4	Each	Piston Ring Oil Control Expander	New/Low Friction	\$4.38	\$17.50
8	Each	Piston Ring Oil Control Rails	New/Low Friction	\$2.58	\$20.80
4	Each	Pistons	Custom	\$247.50	\$990.00
4	Each	Roll Pins Compound Gear	New	\$1.88	\$7.50
8	Each	Wrist Pin Locks	New	\$2.25	\$18.00
4	Each	Wrist Pins	Custom	\$24.69	\$98.75
2	Each	Bearing Alternator Gear Cylinder Head	New	\$11.78	\$23.55
3	Each	Bearing Alternator Gear Rear Cover	New	\$11.78	\$35.33
1	Each	Bearing Metering Unit Gear Cyl Head	New	\$11.78	\$11.78
1	Each	Bearing Metering Unit Gear Rear Cover	New	\$22.88	\$22.88
2	Each	Bearings Idler Ger	New	\$8.85	\$17.73
1	Each	Cam Carrier Inlet	TBD		
1	Each	Cylinder Head Casting	New	\$10,878.80	\$10,878.80
8	Each	Exhaust Valves	New	\$52.95	\$423.60
8	Each	Intake Valves	New	\$40.89	\$327.10
1	Each	Seal Alternator Gear Shaft	New	\$18.40	\$18.40
1	Each	Seal Metering Unit Gear Shaft	New	\$20.00	\$20.00
16	Each	Tappet Shims	Exchange	\$10.00	\$160.00
16	Each	Valve Spring Platforms	Exchange	\$12.80	\$204.80
16	Each	Valve Spring Retainers	New	\$98.40	\$914.40
16	Each	Valve Spring Shims	New	\$2.40	\$38.40
16	Each	Valve Springs	New	\$40.00	\$640.00
16	Each	Valve Stem Seals	New	\$4.38	\$70.00
2	Each	Belt Fuel Pump Drive	New	\$10.40	\$20.80
2	Each	Belt Metering Unit Drive	New	\$8.40	\$12.80
4	Each	Exhaust Gaskets	New	\$3.10	\$12.42
18	Each	Exhaust Studs	New	\$1.84	\$29.44
1	Each	Gasket Cam Cover	New	\$0.00	\$0.00
1	Each	Gasket Cylinder Head	New	\$272.88	\$272.88
1	Each	Oil Pressure Pump Scroll and Rotor	New	\$99.99	\$99.99
1	Each	Rebuild Kit Fuel Pump	New	\$117.33	\$117.33
1	Each	Rebuild Kit Fuel Pump Drive	New	\$21.80	\$21.80
1	Each	Rebuild Kit Metering Unit	New	\$283.30	\$283.30
1	Each	Rebuild Kit Metering Unit Drive	New	\$22.51	\$22.51
4	Each	Spark Plugs	Champion G57C	\$11.21	\$44.85
		<b>Total Cost of Parts</b>			<b>\$18,562.22</b>



Prepared For:  
Louie Shefchik



1/11/2008

90	Hours	Cosworth Rebuild Labor	Estimate	\$90.00	\$8,100.00
8	Hours	Install Cam Carrier Tappet Bushings	Estimate	\$80.00	\$720.00
15	Hours	Rebuild Fuel System & Flow Test	Estimate	\$75.00	\$1,125.00
1	Lot	Dry Film Coat Engine Parts	Estimate	\$150.00	\$150.00
<b>Total Cost of Labor &amp; Sublet Services</b>					<b>\$10,095.00</b>
1	Each	Dynamometer Test		\$1,500.00	\$1,500.00
3	Hours	Post Dynamometer Inspection, Crate, Ship		\$75.00	\$225.00
<b>Total Costs of Dynamometer Test</b>					<b>\$1,725.00</b>
1	Misc	Solvent, Sealants, Assembly Lube		\$200.00	\$200.00
		Scotch Brite, Fasteners, Waste Disposal			
2	Each	Water Pump Lube		\$8.38	\$16.77
12	Quarts	25-50 Pennzoil Racing Oil		\$3.50	\$42.00
7.5	Gallons	Racing Gasoline VP C-12		\$9.94	\$74.53
<b>Total Cost of Shop Supplies</b>					<b>\$333.30</b>
1	Each	Shipping Parts Inbound Import Duty	Cylinder Head/Compound Gear	\$500.00	\$500.00
1	Each	Shipping Parts Inbound	Parts Inbound	\$200.00	\$200.00
				\$0.00	\$0.00
				\$0.00	\$0.00
<b>Total Shipping Costs</b>					<b>\$700.00</b>
		Parts			\$18,552.22
		Labor & Machining Services			\$10,095.00
		Dynamometer Testing			\$1,725.00
		Shop & Dynamometer Test Supplies			\$333.30
		Shipping			\$700.00
0		Indiana State Sales Tax			\$0.00
<b>Total Cost</b>					<b>\$31,405.52</b>

*Tappet rod 38 thousands,  
CRACKS IN HEAD*





2001 East Main Street  
Danville, IN 46122

# Invoice

Date	Invoice #
1/4/2011	2382

<b>Bill To</b>
J & L Fabricating PO Box 70 Puyallup, WA 98371

Description	Qty	P.O. No.	Terms	Project
		FVA 659-1		J & L FVA 659
		Rate	Backordered	Amount
Adaptor Plate Compound Gear Bearing FVA	1	532.00	0	532.00
Compound Gear Shaft	1	180.88	0	180.88
Crank Rear Housing Gasket	1	4.80	0	4.80
Camshaft Cap Washer	20	0.28	0	5.60
Distributor cap clip for 45D/BD	2	10.25	0	20.50
Grommet Rubber	1	2.54	0	2.54
Plug Freeze Brass 2"	1	4.784	0	4.78
Tappet Shims	16	8.00	0	128.00
Platform Valve Spring Lower-Used	16	10.00	0	160.00
Spring Shims	8	1.25	0	10.00
Valve Lock Pairs	16	15.768	0	252.29
Cap Aluminum -3	2	4.39	0	8.78
Cap Aluminum -6	4	1.50	0	6.00
-10 Aluminum Cap	4	8.14	0	32.56
Fitting -10AN X 1/2 BSP	4	14.85	0	59.40
Adaptor 3/8 BSP to -6 Male	1	14.96	0	14.96
Ignition Spark Plug Washer 10mm	4	1.26	0	5.04
Dowel Pin Bellhousing	2	21.8295	0	43.66
O-ring Water Manifold	4	2.50	0	10.00
LMU Shim MKII	2	6.00	0	12.00
Spring Oil Pressure PRV	1	2.68	0	2.68
Unpack parts, remove preservatives, reorganize parts & fasteners	7	90.00		630.00

<p align="center"><b>Disclaimer:</b></p> <p>VDS Racing Engines, Inc. parts are intended for "RACING" only. Due to the intended use, all VDS Racing Engines, Inc. parts are sold "as-is" without any express or implied warranty of any kind, including fitness. The buyer assumes all risk as to quality, performance and use of these products and agrees to hold VDS Racing Engines, Inc., their agents and employees harmless for any damage, loss, or injury: including any and all incidental or consequential damages arising from the installation, or use of VDS Racing Engines Inc.'s products.</p>	<b>Subtotal</b>
	<b>Sales Tax (0.0%)</b>
	<b>Total</b>
	<b>Payments/Credits</b>
	<b>Balance Due</b>



2001 East Main Street  
Danville, IN 46122

# Invoice

Date	Invoice #
1/4/2011	2382

<b>Bill To</b>
J & L Fabricating PO Box 70 Puyallup, WA 98371

Description	Qty	P.O. No.	Terms	Project
		FVA 659-1		J & L FVA 659
		Rate	Backordered	Amount
Rebuild labor	69	90.00		6,210.00
Dynamometer Test (2.5 Days @ \$900 per day) Includes additional time to identify leaking cam cover, remove, strip previous repair and apply new epoxy repair. Identify oil pump leak, repair leak caused by thin cross section in oil pump body not providing adequate surface area for sealing at PRV.	1	2,250.00		2,250.00
Post-Dyno Inspection, Crate & Ship	3	75.00		225.00
Oil Filter K&N	1	14.07	0	14.07
Conklin Safe	2	11.728	0	23.46
Pennzoil GT Oil 25W50	5	5.25	0	26.25
VP C-12 Racing Gasoline	5	11.45	0	57.25
Test Ignition Distributor	1	81.00		81.00
Freight, Customs, Duty Parts Inbound	1	30.41	0	30.41
<p align="center"><b>Disclaimer:</b> VDS Racing Engines, Inc. parts are intended for "RACING" only. Due to the intended use, all VDS Racing Engines, Inc. parts are sold "as-is" without any express or implied warranty of any kind, including fitness. The buyer assumes all risk as to quality, performance and use of these products and agrees to hold VDS Racing Engines, Inc., their agents and employees harmless for any damage, loss, or injury: including any and all incidental or consequential damages arising from the installation, or use of VDS Racing Engines Inc.'s products.</p>		<b>Subtotal</b>		\$11,043.91
		<b>Sales Tax (0.0%)</b>		\$0.00
		<b>Total</b>		\$11,043.91
		<b>Payments/Credits</b>		\$-3,500.00
		<b>Balance Due</b>		\$7,543.91

*\$ 3,500<sup>00</sup>*  
**POSTED**

FVA 659-1  
Partial Rebuild Invoice

Quantity	Units	Item	Comments	Price	
				Each	Extended
<b>Short Block Components</b>					
2	Each	Bearing Idler Gear Front	New	\$63.11	\$126.23
2	Each	Bearing Idler Gear Rear	New	\$11.78	\$23.55
1	Set	Bearings Jackshaft	New	\$22.76	\$22.76
8	Each	Connecting Rod Bearing Shells	New	\$20.87	\$166.97
4	Each	Connecting Rods	New	\$401.25	\$1,605.00
1	Each	Crankshaft Front Seal	New	\$26.03	\$26.03
1	Each	Crankshaft Pilot Bearing	Bronze Bushing	\$10.91	\$10.91
1	Each	Crankshaft Rear Seal	New	\$36.27	\$36.27
1	Set	Crankshaft Thrust Washer	New	\$11.65	\$11.65
1	Each	Flywheel Alignment Spud	New	\$19.93	\$19.93
12	Each	Flywheel Bolts	Custom ARP	\$11.63	\$139.58
1	Each	Gear Compound	New	\$630.95	\$630.95
0.5	Set	Main Bearings	New	\$63.13	\$31.56
0.5	Set	Main Bearings	New	\$63.13	\$31.56
4	Each	Piston Ring Compression Second	New/Low Friction	\$60.75	\$243.00
4	Each	Piston Ring Compression Top	New/Low Friction	\$73.58	\$294.30
4	Each	Piston Ring Oil Control Expander	New/Low Friction	\$5.60	\$22.40
8	Each	Piston Ring Oil Control Rails	New/Low Friction	\$3.30	\$26.37
4	Each	Pistons	Custom	\$252.19	\$1,008.76
4	Each	Roll Pins Compound Gear	New	\$3.00	\$12.00
8	Each	Wrist Pin Locks	New	\$3.00	\$24.00
4	Each	Wrist Pins	New	\$38.81	\$155.25
<b>Cylinder Head Components</b>					
2	Each	Bearing Alternator Gear Cylinder Head	New	\$11.78	\$23.55
3	Each	Bearing Alternator Gear Rear Cover	New	\$11.78	\$35.33
1	Each	Bearing Metering Unit Gear Cyl Head	New	\$11.78	\$11.78
2	Each	Bearing Metering Unit Gear Rear Cover	New	\$19.12	\$38.23
2	Each	Bearings Idler Ger	New	\$8.86	\$17.73
1	Each	Cam Carrier Inlet	New	\$1,583.12	\$1,583.12
1	Each	Cylinder Head Casting	New	\$10,131.96	\$10,131.96
8	Each	Exhaust Valves	New	\$57.19	\$457.49
8	Each	Intake Valves	New	\$44.16	\$353.27
1	Each	Seal Alternator Gear Shaft	New	\$15.53	\$15.53
1	Each	Seal Metering Unit Gear Shaft	New	\$16.88	\$16.88
0	Each	Tappet Shims	Exchange	\$12.80	\$0.00
0	Each	Valve Spring Platforms	Exchange	\$12.80	\$0.00
16	Each	Valve Spring Retainers	New	\$32.40	\$518.40
0	Each	Valve Spring Shims	New	\$3.00	\$0.00
16	Each	Valve Springs	New	\$43.20	\$691.20
16	Each	Valve Stem Seals	New	\$5.60	\$89.60
<b>Fuel System/Pumps/Ancillaries</b>					
1	Each	Adapter Fitting -3 to -2	New	\$15.68	\$15.68
1	Each	Adapter Fitting 1/4 BSP to -6	New	\$50.00	\$50.00
2	Each	Belt Fuel Pump Drive	New	\$10.40	\$20.80
2	Each	Belt Metering Unit Drive	New	\$6.40	\$12.80
4	Each	Exhaust Gaskets	New	\$3.88	\$15.52
0	Each	Exhaust Studs	New	\$2.30	\$0.00
2	Each	Gasket Cam Cover Kit	includes spark plug well gaskets	\$21.37	\$42.74
1	Each	Gasket Oil Pan Left	New	\$10.18	\$10.18
1	Each	Gasket Oil Pan Right	New	\$10.18	\$10.18
1	Each	Gasket Oil Pump	New	\$8.10	\$8.10
1	Each	Gasket Thermostat Housing	New	\$3.97	\$3.97
2	Each	Gasket Cylinder Head	New	\$97.16	\$194.32
3	Each	Injector Springs	New	\$1.06	\$3.18
3	Each	Injector Adjusting Set Screw 4BA	New	\$1.06	\$3.18
3	Each	Injector Nyloc Nuts 4BA	New	\$1.06	\$3.18
3	Each	Injector Copper Crush Washer 14mm	New	\$1.70	\$5.10



FVA 659-1  
Partial Rebuild Invoice

3	Each	Injector O-Rings	New	\$0.22	\$0.66
1	Each	Rebuild Kit Titan Side Mount Oil Pump	New	\$35.38	\$35.38
1	Each	Rebuild Kit Fuel Pump	New	\$103.08	\$103.08
1	Each	Rebuild Kit Fuel Pump Drive	New	\$18.87	\$18.87
1	Each	Rebuild Kit Metering Unit	New	\$292.49	\$292.49
1	Each	Rebuild Kit Metering Unit Drive	New	\$21.39	\$21.39
4	Each	Spark Plugs	New	\$11.21	\$44.85
<b>Total Cost of Parts</b>					<b>\$19,568.73</b>
<b>Labor &amp; Machining Services</b>					
16.00	Hours	Disassemble, clean and perform evaluation	Actual Time	\$90.00	\$1,440.00
10.50	Hours	Disassemble, clean pressure test, crack test and evaluate cylinder head	Actual Time	\$90.00	\$945.00
4.50	Hours	Block Preparation, Paint, Hone w/ Torque Plate	Actual Time	\$90.00	\$405.00
1.75	Hours	Ultrasonic Test Block Cylinder Wall Thickness	Actual Time	\$90.00	\$157.50
5.50	Hours	Mock-up: measure valve drop piston dome volume	Actual Time	\$90.00	\$495.00
7.00	Hours	Mock-up: new cylinder head, gear lash	Actual Time	\$90.00	\$630.00
1.75	Hours	File fit piston rings and de-burr	Actual Time	\$90.00	\$157.50
1.50	Hours	Mock-up engine measure deck heights	Actual Time	\$90.00	\$135.00
5.50	Hours	Mock-up engine: check gear lash, new head and cam carrier fit	Actual Time	\$90.00	\$495.00
1.75	Hours	Modify new carrier to fit cam	Actual Time	\$90.00	\$157.50
4.50	Hours	Rebuild oil pump		\$90.00	\$405.00
-30.55	Hours	Goodwill Credit Adjustment to 33% of job estimated cost	Credit	\$90.00	-\$2,749.50
15.00	Hours	Rebuild Fuel System & Flow Test	Actual Time	\$75.00	\$1,125.00
3.75	Hours	Service Slide Valve Throttle		\$75.00	\$281.25
4.00	Hours	Prepare parts for long-term storage and shipping		\$75.00	\$300.00
1.00	Lot	Dry Film Coat Oil pump Scroll & Rotor		\$23.75	\$23.75
<b>Total Cost of Labor &amp; Sublet Services</b>					<b>\$4,403.00</b>
<b>Dynamometer Test</b>					
0	Each	Dynamometer Test		\$1,500.00	\$0.00
0	Hours	Post Dynamometer Inspection, Crate, Ship		\$75.00	\$0.00
<b>Total Costs of Dynamometer Test</b>					<b>\$0.00</b>
<b>Shop &amp; Dynamometer Test Supplies</b>					
1	Misc	Solvent, Sealants, Assembly Lube		\$200.00	\$200.00
		Scotch Brite, Fasteners, Waste Disposal			
0	Each	Water Pump Lube		\$8.38	\$0.00
0	Quarts	25-50 Pennzoil Racing Oil		\$3.50	\$0.00
0	Gallons	Racing Gasoline VP C-12		\$9.94	\$0.00
<b>Total Cost of Shop Supplies</b>					<b>\$200.00</b>
<b>Shipping</b>					
1	Each	Shipping Parts Inbound Import Duty	Cylinder Head/Compound Gear	\$535.38	\$535.38
1	Each	Shipping Parts Outbound		\$10.14	\$10.14
1	Each	Shipping Parts Outbound		\$18.58	\$18.58
1	Each	Shipping Parts Inbound		\$37.59	\$37.59
1	Each	Shipping Parts Inbound		\$45.05	\$45.05
1	Each	Shipping Parts Inbound		\$24.60	\$24.60
1	Each	Shipping Parts Inbound		\$9.94	\$9.94
1	Each	Shipping Parts Inbound		\$21.09	\$21.09
1	Each	Shipping Parts Inbound		\$11.73	\$11.73
1	Each	Shipping Engine Parts Outbound		\$236.30	\$236.30
<b>Total Shipping Costs</b>					<b>\$950.38</b>
<b>Summary of Costs</b>					
Parts					\$19,568.73
Labor & Machining Services					\$4,403.00
Dynamometer Testing					\$0.00
Shop & Dynamometer Test Supplies					\$200.00

Prepared for:  
J L Fabricating



June 23, 2009

FVA 659-1  
Partial Rebuild Invoice

	Shipping			\$950.38
0	Indiana State Sales Tax			\$0.00
	<b>Total Cost</b>			<b>\$25,122.11</b>
			<b>Less Deposit</b>	<b>\$20,000.00</b>
			<b>Balance Due</b>	<b>\$5,122.11</b>

**Tom Lee**

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**From:** Louie Shefchik [louie@jandlfabricating.com]  
**Sent:** Saturday, August 28, 2010 5:17 PM  
**To:**  
**Subject:** FW: FVA 659 Projected Completion Cost  
**Attachments:** JL FVA 659-1 Invoice.xls

Hi

I had a conversation with Chuck and asked him to check where we were on the FVA and what is required to complete it. See below. I would recommend having him button up this engine and get it home. Let me know if you agree.

Lou

*Have a great Day...*

**Louie Shefchik**  
**J&L Fabricating**  
**PO Box 70**  
**Puyallup, WA 98371**  
**253-845-0617**  
**253-606-0419 cell**  
**253-845-0754 fax**

[louie@jandlfabricating.com](mailto:louie@jandlfabricating.com)

---

**From:** Chuck [mailto:ccornelison@vdsracingengines.com]  
**Sent:** Wednesday, August 25, 2010 12:55 PM  
**To:** Louie Shefchik  
**Subject:** FVA 659 Projected Completion Cost

Louie,

Below is the accounting for the FVA project. As I believe you already know, in order to resume work we will have to unpack, clean the preservatives off of the parts, and re-organize all of the parts and fasteners. I am estimating this will take an additional 6.0 to 8.0 hours.

If you would like to move forward with the project, please send a deposit of \$3500 for half the rebuild labor cost and the additional time to unpack and re-organize the parts.

Let me know if you have questions.

Best regards,  
Chuck

Chuck Cornelison  
VDS Racing Engines, Inc.  
Danville, Indiana 46122  
317-745-6373 Voice  
317-745-6700 FAX  
[www.vdsracingengines.com](http://www.vdsracingengines.com)

---

**From:** Melissa Buller [mailto:mbuller@vdsracingengines.com]  
**Sent:** Monday, August 23, 2010 11:58 AM

**To:** 'Chuck Cornelison'

**Subject:** FVA 659 Projected Completion Cost

Hello,

Based on an updated estimated cost to complete FVA 659 sent May 14, 2009, the cost to finish the project is as follows:

Projected Cost:	\$33,249.69 (includes cam carrier cost of \$1583.12)
Less Payments to date:	\$25,1122.11
Balance	\$ 8,127.58

The balance includes:

Labor 69 Hours	\$6,202.00
Dyno Test	\$1,500.00
Post Dyno	\$ 225.00
Dyno Supplies	\$ 200.58
Total	\$8,127.58

The attached invoice shows all that has been paid for. I laid a printed copy on your computer keyboard.

Cheers,  
Mel

Melissa A. Buller  
VDS Racing Engines, Inc.  
2001 East Main Street  
Danville, IN 46122  
Tel: 317-745-6373  
Fax: 317-745-6700  
[www.vdsracingengines.com](http://www.vdsracingengines.com)

# VELOCE MOTORS WEST


426, Petaluma Blvd. North, Petaluma, CA 94952-2873  
 ph. (707) 765-1326 fax (707) 765-1314  
 e-mail: velocemotors@sbcglobal.net

FVA 003

# INVOICE

Page 1 of 3

INVOICE # 1658  
 DATE 19-Dec-05  
 WRITTEN BY scheer

BILL TO:	SHIP TO: J & L Fabricating
CUST. #	 ph. _____ fax _____ E-MAIL _____

ORDER DATE	TERMS OF PAYMENT upon receipt	SHIP DATE
CUST. PO. NO. verbal	FOB POINT shop, Petaluma, CA	SHIP VIA
RESALE NO. n/a	PAYMENT TYPE personal check okay	WAY BILL #

NOTES: Cosworth FVA engine: To invoice for labor, parts & materials to re-build engine post Fontana.

ALL VALUES SHOWN IN US DOLLARS

QTY.	PART NO.	DESCRIPTION	UNIT PRICE	EXTENSION
		<b>LABOR</b>	80.00	/hr. - standard
			85.00	/hr. - machinis
1	lot	Disassemble & clean engine components		incl.
1	lot	Inspect engine components to determine purchasing requirements		incl.
1	lot	Engine Rebuild- FVA		3600.00
1	hr	Pressure test head; find slight porosity; test again after repair work done		80.00
0.25	hr	Box & send head for pressure seal	80.00	20.00
0.5	hr	Install new jackshaft bearings & clearance	80.00	40.00
0.5	hr	Machine & install new distributor gear	85.00	42.50
1.5	hr	Remove & replace 4 valve guides; hone to fit	85.00	127.50
2	hr	Install intake cam tower - Machine 3x to get proper gear lash	85.00	170.00
1.25	hr	R & R 2 intake valve seat	85.00	106.25
1	hr	Make 4 spacers for cam gear	85.00	85.00
1	hr	Machine jackshaft to fit cam gear drive	85.00	85.00
6	hr	Machine and balance new pistons for P/V & compression ratio	85.00	510.00
		Precision valve job		incl.
0.75	hr	De-burr bottom end of swarf damage	85.00	63.75
2	hr	Make fuel metering unit fuel fitting; tap block; install fitting	85.00	170.00
1	lot	Professional engine dyno session		900.00
1	lot	Post dyno inspection		incl.
6	hr	Tear down & clean up sold Sperry FVC (work done prior to sale decision)		480.00
		<b>LABOR - TOTAL</b>		<b>6480.00</b>
		<b>OUTSIDE SERVICES</b>		
1	lot	Repair on two cam lobes		275.00
1	lot	Mag check ceank & straighten		75.00
1	lot	Weld up & repair head		350.00
1	lot	Pressure seal head		210.00
1	lot	Hone block for new pistons		215.00



# VELOCE MOTORS WES

426.Petaluma Blvd. North, Petaluma, CA 94952-2873  
 ph. (707) 765-1326 fax (707) 765-1314  
 e-mail: velocemotors@sbcglobal.net

# INVOICE

Page 2 of 3

INVOICE # 1658  
 DATE 19-Dec-05  
 WRITTEN BY scheer

1	lot	Plating on FVA water manifold		75.00
1	lot	Coating on pistons & skirts		130.00
1	lot	Coating on rod & main bearings		105.00
1	lot	Shipping on special order parts from England		30.00
1	lot	Shipping on pistons for coating		21.00
1	lot	Shipping on bearings for coating		13.00
1	lot	Weld Sperry FVC head for surface porosity;straighten (pre-sales decision)		250.00
<b>OUTSIDE SERVICES - TOTAL</b>				<b>1749.00</b>
<b><u>PARTS &amp; MATERIALS</u></b>				
1	set	bearings, rod; 1/2 coated		160.00
1	set	bearings, main, coated		115.00
1	set	pistons		780.00
1	set	rings		187.00
1	set	rods		0.00
16		followers, valve	32.00	512.00
3		bearings, cam	21.50	64.50
1		jackshaft		289.00
1	pair	bushings, jackshaft		15.95
1		bearings, thrust, jackshaft		38.50
1		gear, distributor		43.00
16		caps, lash	5.00	80.00
16		seal, stem	4.25	68.00
2		guides, intake	12.50	25.00
2		guides, exhaust	12.50	25.00
2		valves, intake	45.00	90.00
2		valves, exhaust	42.00	84.00
1		cam tower, new (supplied by customer )		n/c
1		bushing, pilot		14.00
12		bolts, flywheel	8.00	96.00
1		seal, rear		38.00
1		seal, front		22.00
1.5	ft	fuel line	3.50	5.25
2		bearings, roller (2 piece special)	82.00	164.00
2	pair	lock plates	8.40	16.80
1		bearing shaft, water		51.00
1		pump seal, water		42.00
1	lot	misc. hardware		20.00
1		fitting, special -3 / 1/2 28		11.75
1		gasket, valve cover		26.50
1		gasket, pan		37.50
1		gasket, head		125.00
1		gasket, chest		8.75
1		O-ring, water pump		1.25
1		gasket, oil pump		5.75
1		oil pump assembly		420.00
12		seals, 1/4" stato	2.10	25.20
32		keepers, valve	2.95	94.40
4		spark plugs	7.00	28.00
1		water manifold(special order)		850.00
4		trumpet, FVA	150.50	602.00
8		Viton "O" rings	1.25	10.00

INVOICE # 1658  
 DATE 19-Dec-05  
 WRITTEN BY scheer

		<b>PARTS - TOTAL</b>		<b>5292.10</b>
		<b>MATERIALS</b>		
0.5	tube	silicone, pure, white	16.00	8.00
7	gal	Gas	7.50	52.50
12	qt	Engine oil	2.95	35.40
5	can	Brake/sensitive surface cleaner	4.00	20.00
	lot	Safety wire		nc
1	lot	Hazardous waste disposal fee	5.00	5.00
		<b>MISCELLANEOUS - TOTAL</b>		<b>120.90</b>
		<b>TOTAL LABOR</b>		<b>6480.00</b>
		<b>TOTAL OUTSIDE SERVICES</b>		<b>1749.00</b>
		<b>TOTAL PARTS</b>		<b>5292.10</b>
		<b>TOTAL MATERIALS</b>		<b>120.90</b>
		<b>SUB-TOTAL</b>		<b>13642.00</b>
		<b>SHIPPING</b>		<b>0.00</b>
		<b>TAX</b>	out of state	<b>0.00</b>
		<b>TOTAL</b>		<b>\$ 13,642.00</b>
		<b>DEPOSIT</b>		<b>0.00</b>
		<b>BALANCE DUE</b>		<b>\$ 13,642.00</b>

Please remit to: Veloce Motors West, 426 Petaluma Blvd. North, Petaluma, CA 94952-2873

*THANK YOU FOR YOUR BUSINESS!*