Wayland Motorsports

2728 Guerneville Rd Santa Rosa, CA 95401 US info@waylandmotorsports.com



INVOICE

 BILL TO
 SHIP TO
 INVOICE
 1062

 Huffaker Motorsports
 29601 Arnold Dr, Sonoma, CA 95476
 DATE
 04/27/2021

DUE DATE 08/31/2021

DATE	ACTIVITY	DESCRIPTION	QTY	RATE	AMOUNT
04/20/2021	Shop Rate	Shop hours 4.20.21 thru 4.27.21 Front suspension disassembly, engine & transmission removal, suspension assessment & removal ~intake runners low torque (likely not retorqued after heat cycle	10	110.00	1,100.00
		leak down test: #1: 15% #2: 8% #3: 4% #4: 4% #5: 4% #6: 4%			
04/27/2021	Parts via Distributor	Front suspension: RSR front 19mm raised spindle x2, RSR solid front a-arm bushing set, racing adjustable bump steer kit, steering coupler, 400# springs & tenders, spacers & perches, 964 monoball ass'y, top hats & custom steel water jet cut camber plate to replace damage ~ESTIMATED (now on invoice)	0	5,053.00	0.00
04/27/2021	Parts via Distributor	Rear suspension: RSR coilover setup, revalved for 500# spring & tenders, spacers & perches ~ESTIMATED (now on invoice)	0	1,460.00	0.00
04/28/2021	Parts via Distributor	Rear: Shock Absorber (Racing 934) Valving 220/180	2	285.00	570.00
04/28/2021	Parts via Distributor	*Front: Strut (Racing "RSR") Valving 220/100, L&R	2	776.50	1,553.00
05/14/2021	Shop Rate	4.28.21 - 5.14.21 engine teardown / verify cam timing @ 5.15mm 1-3, 5.29mm 4-6 (.43mm variance between measurements), cleaning & inspection, Ra test cylinder wall *found 88-90 Ra (CP steel w/ gas nitride rings require 15-30 Ra per call-out), main bearings show wear, crankshaft & rods OK, clean crankcase halves	13	110.00	1,430.00
05/17/2021	Services	*Dyno IROC struts to confirm damage, revalving replacement shocks, machining of spacers to allow 964/993 mount	1	607.50	607.50
05/17/2021	Parts via Distributor	*Reconfiguration Parts (Front): 964/993 upper mounts, upper spring perches, lower spring seats, springs, tender springs, couplers	1	638.46	638.46

05/17/2021	Parts via Distributor	Reconfiguration Patender springs, co	arts (Rear): springs, uplers	1	472.04	472.04
05/18/2021	Parts via Distributor		Ti retainers, amber (estimate, will update as	1	2,280.00	2,280.00
05/18/2021	Services	porting, cam & roc combustion chamb	ing & valve ~ exhaust ker touch-up, chamfer per if necessary inspection by shop)	1	2,000.00	2,000.00
05/18/2021	Shop Rate	Engine Assembly (~ESTIMATED	Quoted 5.14.21	1	7,000.00	7,000.00
05/21/2021	Shop Rate	Vapor blast case,	clean & inspect	2	110.00	220.00
06/08/2021	Parts via Distributor		g set, 930.100.901.04V .04, 911.110.391.40 x6	1	520.00	520.00
06/08/2021	Parts via Distributor	Mahle PC98-017		1	3,400.00	3,400.00
06/10/2021	Shop Rate	measure, adjust & new plates ~ found boxes driver's side	camber box plates, take measurements for d discrepancies between e larger than passenger s fracturing inside of	5	110.00	550.00
06/11/2021	Shop Rate	*Test fit assemblie castor & camber a	s, checking for correct adjustments ~	4	110.00	440.00
06/24/2021	Parts via Distributor		umpsteer kit, steering r spring hats, rear solid solid bushing set	1	1,425.00	1,425.00
06/24/2021	Shop Rate		ued re-engineering of lates due to accident	5	110.00	550.00
06/29/2021	Shop Rate		olacement camber plate ompletion, re-assemble ver car to Huffaker	18.50	110.00	2,035.00
09/08/2021	Shop Rate	9.2, 9.3, 9.7, 9.8 ~ RUSH installation	Engine completion,	13.50	0.00	0.00
Ed ~			PAYMENT			26,791.00
	voice open and updated as our ex request receipts if needed. I will g		BALANCE DUE			\$0.00
parts via vendor/dis						PAID

Call/e-mail with any questions.

Thank you!



ENGINE COMPRESSION & DISPLACEMENT CALCULATOR

	# of Cylinders	Crankcase Half Thickness	Crankshaft Stroke	Cylinder Bore	Rod Length	Barrel Height Pin to Dome He	eight P	Piston Pin Height COMP. Distance	Shim Thickness	Dome Volume	Cylinder Head Volume (cc)	Measured VOL (dome)	Down-fill Distance Piston Top Diameter	Top Land Height
Expressions in mm	6	111.55	70.4	95	127.8	85.37	34	33.75	0.75	47.02	90	47.02		
Expressions in cm			7.04	9.5			3.4	3.375			(Theoretical)		0	
				90.25		0	0.025							
				bore ²		Crown to Dome He	eight in CN	М						
Deck Height (in mm)		0.92	(crankcase-half th	ickness - (stro	ke/2) + barre	l height + shim) - (rod length	h + pisto	on pin height) ///	min. 0.040" / 1	.016 mm		1.25 mm engineered o	deck height	
Dome Volume (in CCs)		47.020	(bore² * down-fill	* π/4) + (bore	² * (center o	f pin to top of dome - theore	tical cor	mpression distance)	* π/4) - measuı	red volume				
Swept Volume (in CCs)		499.011	(bore² * stroke *	π/4)										
Deck Height Volume (in CCs)		6.521	(bore² * deck heig	ht volume * π/4)									
Piston Crevice Volume (in CCs)		0.000	(bore diameter - p	bore diameter - piston diameter) * bore circumference * top ring land										
Compression Ratio		11.081	(swept volume + de	swept volume + deck height volume + cylinder head volume - dome volume) / (deck height volume + cylinder head volume - dome volume)										
Compression Ratio w/ Crevice		11.081	(swept volume + de	swept volume + deck height volume + cylinder head volume - dome volume) / (deck height volume + cylinder head volume + crevice volume - dome volume)										
Displacement (in CCs)		2994.06	(swept volume * #	of cylinders)										
π/4 =		0.7854												
mm to cm / by 10														
Head Port Size (I/E)	~													
Cam Grind Profile	DC60													
Cam Timing Spec	5.0													
Measured Valve to Piston Clearance														
Case Stamping	6403324 6/7													