

## SHORT BLOCK

Short Block:	Chevy 502				
No. Cylinders:	8	Bore:	4.506 in	Rod Length:	6.387 in
Total Volume:	542.2 ci	Stroke:	4.250 in	Rod Ratio:	1.503

## CYLINDER HEADS

Cylinder Heads:	AFR 315		
Valve Specifications:	_____		
Intake Valves/Port:	1	Exhaust Valves/Port:	1
Intake Valve Dia:	2.250 in	Exhaust Valve Dia:	1.890 in

## COMPRESSION

Compression Ratio:	9.74		
Combustion Space:	127.07 cc	Cylinder Volume:	1110.61 cc

## INDUCTION

Induction Flow:	850.0 cfm @ 1.50 inHg	Fuel Type:	Gasoline		
Manifold Type:	Single-Plane Max-Flow	Nitrous Injection:	0.0 lbs/min		
Forced Induction Specifications:	_____				
Blower Type:	Roots- Weiland 256				
Island Flow:	256.0 cfm	Surge Flow:	*** cfm	Pressure Ratio:	***
Impeller Speed:	*** rpm	Belt Ratio:	2.00	Internal Ratio:	***
Peak Efficiency:	55.0 %	Boost Limit:	10.0 psi	Intercooler:	*** %

## EXHAUST

Exhaust System:	Large-Tube Headers Open Exhaust
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## CAMSHAFT

Cam Name:	Chevy 50250 V8						
Intake Lift At Valve:	0.613 in	Lifter Type:	Roller Hydraulic				
Exhaust Lift At Valve:	0.629 in	Lifter Acceleration Rate:	4.00				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 33.5	IVC: 77.5	EVO: 82.0	EVC: 38.0			
Secondary Timing (0.050-inch):	IVO: 6.0	IVC: 50.0	EVO: 54.0	EVC: 10.0			
Cam Installed Advanced(+)/Retarded(-):	4.0						
True IVO:	37.5	True EVO:	86.0				
True IVC:	73.5	True ICA:	108.0	True EVC:	34.0	True ECA:	116.0
Cam Timing Summary:	_____						
Intake Duration:	291.0	Exhaust Duration:	300.0				
Intake Centerline Angle:	112.0	Exhaust Centerline Angle:	112.0				
Lobe Centerline Angle:	112.0	Valve Overlap:	71.5				

## NOTES

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## CYLINDER HEAD AIRFLOW DATA

Description: AFR 315

Intake Valve

Test Diameter: 2.250 in  
Pressure Drop: 28.0 inH2O  
Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
0.050	85.0
0.100	115.0
0.200	169.0
0.300	249.0
0.400	312.0
0.500	353.0
0.600	375.0
0.700	380.0
0.800	390.0
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Exhaust Valve

Test Diameter: 1.880 in  
Pressure Drop: 28.0 inH2O  
Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
0.050	80.0
0.100	110.0
0.200	146.0
0.300	184.0
0.400	238.0
0.500	271.0
0.600	302.0
0.700	314.0
0.800	324.0
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## CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	123	431	14.68	62.2	119.9
2000	190	500	14.66	69.8	139.0
2500	258	543	14.62	76.7	151.0
3000	315	552	14.56	80.2	153.4
3500	395	593	14.50	86.2	165.0
4000	481	632	14.39	92.7	175.7
4500	566	660	14.25	98.0	183.6
5000	631	663	14.08	101.0	184.3
5500	680	649	13.90	102.0	180.5
6000	713	624	13.73	101.0	173.5
6500	711	575	13.59	97.6	159.9
7000	696	522	13.50	94.6	145.2
7500	632	443	13.40	89.1	123.1
8000	543	356	13.39	84.4	99.1
8500	490	303	13.37	80.6	84.1
9000	402	235	13.34	76.3	65.2
9500	302	167	13.34	71.1	46.4
10000	228	120	13.40	67.8	33.2
10500	123	62	13.39	63.6	17.1
11000	29	14	13.44	60.0	3.8
11500	0	0	13.47	56.3	0.0



