

SHORT BLOCK

Short Block:	Chevy 350	Bore:	4.030 in	Stroke:	3.480 in
No. Cylinders:	8	Cylinder Volume:	727.41 cc	Total Vol:	355.1 ci

CYLINDER HEADS

Cylinder Heads: 292

Valve Specifications:

Intake Valves/Port:	1	Exhaust Valves/Port:	1
Intake Valve Dia:	2.050 in	Exhaust Valve Dia:	1.600 in

COMPRESSION

Compression Ratio:	11.50		
Combustion Space:	69.28 cc	Cylinder Volume:	727.41 cc

INDUCTION

Induction Flow:	780.0 cfm @ 1.50 inHg	Fuel Type:	Gasoline
Manifold Type:	Single-Plane High-Flow	Nitrous Injection:	0.0 lbs/min

Forced Induction Specifications:

Blower Type:	None				
Island Flow:	*** cfm	Surge Flow:	*** cfm	Pressure Ratio:	***
Impeller Speed:	*** rpm	Belt Ratio:	***	Internal Ratio:	***
Peak Efficiency:	*** %	Boost Limit:	*** psi	Intercooler:	*** %

EXHAUST

Exhaust System: Large-Tube Headers With Mufflers

CAMSHAFT

Cam Name:	Chevy 12-568-4 V8						
Intake Lift At Valve:	0.507 in	Lifter Type:	Hydraulic				
Exhaust Lift At Valve:	0.525 in	Lifter Acceleration Rate:	2.83	(Auto)			
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 34.0	IVC: 70.0	EVO: 90.0	EVC: 34.0			
Secondary Timing (0.050-inch):	IVO: 12.0	IVC: 48.0	EVO: 64.5	EVC: 8.5			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	34.0	True EVO:	90.0				
True IVC:	70.0	True ICA:	108.0	True EVC:	34.0	True ECA:	118.0
Cam Timing Summary:							
Intake Duration:	284.0	Exhaust Duration:	304.0				
Intake Centerline Angle:	108.0	Exhaust Centerline Angle:	118.0				
Lobe Centerline Angle:	113.0	Valve Overlap:	68.0				

NOTES

CYLINDER HEAD AIRFLOW DATA

Description: 292

Intake ValveTest Diameter: 2.020 in
Pressure Drop: 25.0 inH2OLift: in Flow: cfm

0.100	96.4
0.200	143.9
0.300	190.1
0.400	218.5
0.500	243.6
0.600	261.6
0.700	271.2

Exhaust ValveTest Diameter: 1.600 in
Pressure Drop: 25.0 inH2OLift: in Flow: cfm

0.100	48.8
0.200	110.3
0.300	162.2
0.400	184.5
0.500	186.5
0.600	186.6
0.700	185.9

CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
2000	115	303	14.68	72.2	130.4
2500	151	318	14.66	76.1	137.0
3000	192	336	14.63	80.0	144.6
3500	246	370	14.60	88.2	159.2
4000	307	403	14.54	96.4	173.4
4500	369	430	14.45	102.8	185.2
5000	421	442	14.35	107.3	190.4
5500	463	442	14.24	110.4	190.4
6000	491	429	14.12	110.3	184.9
6500	507	409	14.02	109.8	176.3
7000	500	375	13.92	106.8	161.6
7500	500	350	13.86	104.3	150.9
8000	469	308	13.79	100.2	132.5
8500	438	270	13.75	94.8	116.4
9000	403	235	13.74	91.3	101.2
9500	346	191	13.71	85.2	82.3
10000	312	164	13.75	82.4	70.6
10500	248	124	13.72	77.6	53.3
11000	191	91	13.74	73.5	39.3

PROTOOLS CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Indicated Power	Frictional Power	Pumping Power	Mech. Eff %	Induction Airflow	Piston Force	Piston Speed	IMEP Pressure	FMEP Pressure	PMEP Pressure
2000	115	133	13	3	88.2	148.4	1885	1160	147.8	14.0	3.4
2500	151	175	16	5	88.0	195.4	1986	1450	155.7	14.3	4.4
3000	192	222	20	8	87.7	246.5	2102	1740	164.8	14.6	5.7
3500	246	284	23	11	87.9	317.1	2310	2030	181.1	14.6	7.2
4000	307	353	26	16	88.0	396.0	2513	2320	197.0	14.6	9.0
4500	369	425	29	22	87.9	475.5	2686	2610	210.6	14.5	10.8
5000	421	488	33	28	87.5	551.3	2777	2900	217.7	14.9	12.4
5500	463	542	38	34	86.6	623.9	2803	3190	219.8	15.5	13.8
6000	491	582	45	40	85.4	680.0	2760	3480	216.4	16.7	14.8
6500	507	612	53	45	83.9	733.6	2679	3770	210.0	18.2	15.6
7000	500	620	64	50	81.7	768.1	2522	4060	197.7	20.3	15.8
7500	500	637	75	55	79.6	803.4	2417	4350	189.5	22.4	16.2
8000	469	623	91	57	76.3	823.4	2216	4640	173.7	25.3	15.9
8500	438	611	108	59	72.6	828.1	2045	4930	160.3	28.3	15.6
9000	403	597	127	61	68.4	844.2	1887	5220	147.9	31.5	15.2
9500	346	562	150	61	62.4	831.9	1683	5510	132.0	35.3	14.3
10000	312	553	173	63	57.3	846.8	1573	5800	123.3	38.6	14.1
10500	248	514	201	62	48.9	837.3	1392	6090	109.1	42.7	13.1
11000	191	485	230	61	39.9	831.2	1254	6380	98.3	46.7	12.4



