

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/Nitrous
Manifold Type:	Single-Plane High-Flow	Nitrous Injection:	6.0 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 Valve

Test Diameter: 2.020 in
 Pressure Drop: 25.0 inH2O

Exhaust Valve

Test Diameter: 1.600 in
 Pressure Drop: 25.0 inH2O

Lift: 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

Lift: 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	264	693	14.68	72.2	298.3
2500	299	629	14.66	76.1	270.8
3000	339	594	14.63	80.0	255.7
3500	393	590	14.60	88.2	254.2
4000	453	595	14.54	96.4	256.2
4500	515	600	14.45	102.8	258.5
5000	566	595	14.35	107.3	256.1
5500	608	580	14.24	110.4	250.0
6000	635	556	14.12	110.3	239.5
6500	652	526	14.02	109.8	226.7
7000	645	484	13.92	106.8	208.4
7500	645	452	13.86	104.3	194.6
8000	614	403	13.79	100.2	173.5
8500	583	360	13.75	94.8	155.0
9000	548	319	13.74	91.3	137.6
9500	491	271	13.71	85.2	116.8
10000	457	240	13.75	82.4	103.4
10500	392	196	13.72	77.6	84.5
11000	336	160	13.74	73.5	69.1

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	264	283	9	6	94.5	148.4	4027	1160	315.7	10.2	7.2
2500	299	325	12	9	93.5	195.4	3694	1450	289.6	10.5	8.3
3000	339	371	15	13	92.7	246.5	3520	1740	276.0	10.8	9.5
3500	393	433	17	17	92.1	317.1	3521	2030	276.0	10.8	11.0
4000	453	502	19	23	91.6	396.0	3569	2320	279.8	10.8	12.8
4500	515	573	22	29	91.1	475.5	3622	2610	283.9	10.8	14.6
5000	566	635	25	36	90.4	551.3	3615	2900	283.4	11.1	16.2
5500	608	689	29	43	89.5	623.9	3563	3190	279.3	11.8	17.6
6000	635	729	35	50	88.4	680.0	3456	3480	271.0	12.9	18.6
6500	652	759	42	56	87.0	733.6	3322	3770	260.4	14.4	19.3
7000	645	767	52	61	85.2	768.1	3119	4060	244.5	16.6	19.6
7500	645	784	63	67	83.4	803.4	2974	4350	233.2	18.6	20.0
8000	614	770	77	70	80.8	823.4	2739	4640	214.7	21.6	19.6
8500	583	758	94	74	77.9	828.1	2537	4930	198.9	24.6	19.3
9000	548	744	112	77	74.7	844.2	2351	5220	184.3	27.8	19.0
9500	491	709	134	77	70.2	831.9	2123	5510	166.5	31.6	18.1
10000	457	700	156	80	66.3	846.8	1991	5800	156.1	34.8	17.8
10500	392	661	183	79	60.2	837.3	1790	6090	140.3	39.0	16.8
11000	336	632	212	79	53.9	831.2	1634	6380	128.1	43.0	16.1



