



**SSW corp. Engine Combos**  
 18975 Marbach Lane ste 327  
 San Antonio Tx 78266  
 Voice: 210 651 1895 or 210 651 0797  
 www.speedscenewiring.com

## Engine Shortblock Specs

Short Block: Chevy 4.8 LS1 Truck

Stroke: 3.270 in

Number Of Cylinders: 8

Bore: 3.780 in

Rod Length:: 5.503 in

Total Volume: 293.6 ci

Cylinder Volume: 601.34 cc

Rod Ratio: 1.683

## Cylinder Head Specs

Cylinder Head Type: GM LS1 Aluminum

Intake Valves Per Port: 1

Exhaust Valves Per Port: 1

Intake Valve Diameter: 2.000 in

Exhaust Valve Diameter: 1.550 in

## Compression Ratio Specs

Compression Ratio: 9.45

Cylinder Head Volume: \*\*\*

Piston Type: \*\*\*

Head Gasket Volume: \*\*\*

FlatTop Deck Height: \*\*\*

Domed Piston Down From TDC: \*\*\*

(Arbitrary Distance)  
(Measured Volume)

FlatTop Deck Volume: \*\*\*

Domed Volume Above Piston: \*\*\*

## Induction System Specs

Induction Type: Single-Plane Std-Flow

Induction Flow: 700.0 cfm @ 1.50 inHg

Fuel Type: Gasoline

Nitrous-Oxide Flow Rate: 0.0 lbs/min

Forced Induction: None

Most Efficient Flow: \*\*\* cfm

Surge Flow: \*\*\* cfm

Pressure Ratio: \*\*\*

Impeller Speed: \*\*\* rpm

Belt Ratio: \*\*\*

Internal Ratio: \*\*\*

Peak Efficiency: \*\*\* %

Waste Gate Opens: \*\*\* psi

Intercooler: \*\*\* %



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## Exhaust System Specs

Exhaust System: Stock Manifolds And Mufflers

## CamShaft/Lifter Specs

Cam Name: Stock 4.8

Lift At Intake Valve: 0.500 in

Lift At Exhaust Valve: 0.500 in

Intake Duration: 252.0

Intake Centerline: 126.0

Lobe Center Angle: 116.5

Cam Follower Type (Lifter): Roller Hydraulic

Lifter Acceleration Rate: 2.81

Exhaust Duration: 252.0

Exhaust Centerline 107.0

Valve Overlap: 19.0

Primary Valve Timing: Seat-To-Seat

Intake Opening: 0.0

Intake Closing: 72.0

Exhaust Opening: 53.0

Exhaust Closing: 19.0

Secondary Valve Timing: 0.050-inch

Intake Opening: -18.0

Intake Closing: 37.0

Exhaust Opening: 37.0

Exhaust Closing: -18.0

Cam Advance/Retard: 0.0

True Intake Centerline: 126.0

True IVO: 0.0

True IVC: 72.0

True Exhaust Centerline: 107.0

True EVO: 53.0

True EVC: 19.0

## Component/Engine Notes

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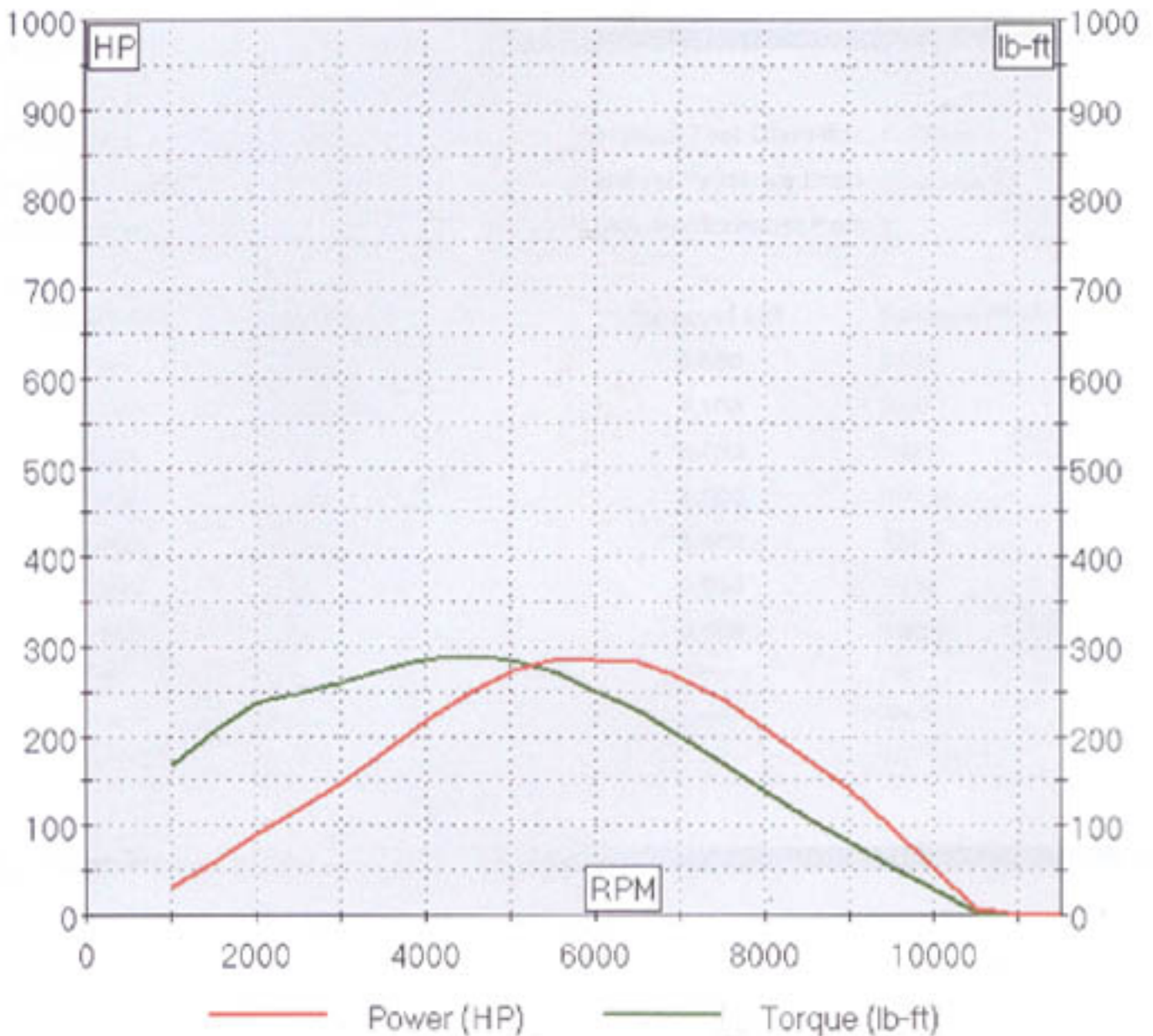
## Engine Simulation Results

Rpm	Power	Torque	Intake Manifold Pressure	Volumetric Efficiency	BMEP Pressure
1000	32	166	14.70	51.7	85.5
1500	59	207	14.69	56.7	106.2
2000	90	236	14.69	61.9	121.4
2500	117	246	14.67	63.7	126.5
3000	147	258	14.66	67.1	132.5
3500	182	273	14.64	71.4	140.4
4000	216	284	14.61	75.3	146.0
4500	248	289	14.57	78.4	148.6
5000	272	285	14.53	80.2	146.6
5500	284	271	14.48	80.0	139.3
6000	284	249	14.44	78.0	127.7
6500	281	227	14.41	76.1	116.7
7000	265	199	14.38	72.8	102.0
7500	241	169	14.37	68.7	86.8
8000	209	137	14.36	64.5	70.3
8500	172	106	14.36	60.0	54.7
9000	140	82	14.37	56.7	41.9
9500	96	53	14.38	52.5	27.2
10000	53	28	14.39	48.8	14.2
10500	6	3	14.41	45.5	1.6
11000	0	0	14.42	41.8	0.0
11500	0	0	14.44	38.9	0.0
12000	0	0	14.46	35.6	0.0
12500	0	0	14.48	33.1	0.0
13000	0	0	14.49	30.5	0.0
13500	0	0	14.51	27.7	0.0
14000	0	0	14.53	25.7	0.0
14500	0	0	14.54	23.7	0.0



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## Right Results Graph (Main Results Graph)





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## Cylinder Head Airflow Data

Cylinder Head Type: GM LS1 Aluminum

Intake Test Diameter: 2.000 in

Exhaust Test Diameter: 1.550 in

Intake Pressure Drop: 28.0 inH2O

Exhaust Pressure Drop: 28.0 inH2O

Valves Per Intake Port: 1

Valves Per Exhaust Port: 1

Intake Lift	Intake Flow	Exhaust Lift	Exhaust Flow
0.050	46.0	0.050	31.0
0.100	83.0	0.100	62.0
0.200	134.0	0.200	104.0
0.300	189.0	0.300	136.0
0.400	222.0	0.400	165.0
0.500	240.0	0.500	179.0
0.600	252.0	0.600	185.0
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## Cylinder Head Airflow Notes