

SHORT BLOCK

Short Block:	GMC 302				
No. Cylinders:	6	Bore:	4.030 in	Rod Length:	6.544 in
Total Volume:	306.1 ci	Stroke:	4.000 in	Rod Ratio:	1.636

CYLINDER HEADS

Cylinder Heads: Low Performance/Stock Ports And Valves

Valve Specifications:

Intake Valves/Port:	1	Exhaust Valves/Port:	1
Intake Valve Dia:	1.940 in	Exhaust Valve Dia:	1.600 in

COMPRESSION

Compression Ratio:	9.50		
Combustion Space:	98.37 cc	Cylinder Volume:	836.11 cc

INDUCTION

Induction Flow:	400.0 cfm @ 3.00 inHg	Fuel Type:	Gasoline
Manifold Type:	Single-Plane Std-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:	High Performance Street						
Intake Lift At Valve:	0.440 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.440 in	Lifter Acceleration Rate:	3.10				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 31.0	IVC: 63.0	EVO: 77.0	EVC: 29.0			
Secondary Timing (0.050-inch):	IVO: 9.0	IVC: 41.0	EVO: 52.0	EVC: 4.0			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	31.0	True EVO:	77.0				
True IVC:	63.0	True ICA:	106.0	True EVC:	29.0	True ECA:	114.0
Cam Timing Summary:							
Intake Duration:	274.0	Exhaust Duration:	286.0				
Intake Centerline Angle:	106.0	Exhaust Centerline Angle:	114.0				
Lobe Centerline Angle:	110.0	Valve Overlap:	60.0				

NOTES

CYLINDER HEAD AIRFLOW DATA

Description: Low Performance/Stock Ports And Valves

Intake Valve

Test Diameter: 2.020 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
0.200	126.0
0.300	167.0
0.400	201.0
0.500	207.0
0.550	211.0
0.600	211.0
0.650	214.0
0.700	214.0
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Exhaust Valve

Test Diameter: 1.600 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
0.200	92.0
0.300	110.0
0.400	118.0
0.500	123.0
0.550	124.0
0.600	124.0
0.650	125.0
0.700	125.0
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***	***

CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
2000	114	299	14.58	71.4	147.5
2500	145	305	14.46	74.5	150.3
3000	174	305	14.33	76.8	150.4
3500	206	309	14.16	80.0	152.0
4000	225	296	13.94	81.4	145.7
4500	231	270	13.70	80.4	132.8
5000	216	227	13.50	76.1	112.0
5500	188	180	13.40	70.3	88.6
6000	153	134	13.38	63.9	65.9
6500	117	95	13.42	58.4	46.6
7000	80	60	13.46	53.8	29.4
7500	37	26	13.49	48.6	12.7
8000	0	0	13.58	44.8	0.0
8500	0	0	13.62	40.6	0.0



