

SHORT BLOCK

Short Block:	Ford 302 Boss				
No. Cylinders:	8	Bore:	4.030 in	Rod Length:	5.151 in
Total Volume:	306.1 ci	Stroke:	3.000 in	Rod Ratio:	1.717

CYLINDER HEADS

Cylinder Heads: Boss 302 exch data

Valve Specifications:

Intake Valves/Port:	1	Exhaust Valves/Port:	1
Intake Valve Dia:	2.190 in	Exhaust Valve Dia:	1.730 in

COMPRESSION

Compression Ratio:	10.00		
Combustion Space:	69.68 cc	Cylinder Volume:	627.08 cc

INDUCTION

Induction Flow:	750.0 cfm @ 1.50 inHg	Fuel Type:	Gasoline
Manifold Type:	Dual-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: Small-Tube Headers With Mufflers

CAMSHAFT

Cam Name:	Dual Purpose Street						
Intake Lift At Valve:	0.556 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.556 in	Lifter Acceleration Rate:	3.20	(Auto)			
Valve Opening/Closing Based On:		0.050-inch					
Primary Timing (0.050-inch):	IVO: 9.0	IVC: 41.0	EVO: 49.0	EVC: 1.0			
Secondary Timing (Seat-to-Seat):	IVO: 30.0	IVC: 66.0	EVO: 70.0	EVC: 26.0			
Cam Installed Advanced(+)/Retarded(-):		0.0					
True IVO:	9.0	True EVO:	49.0				
True IVC:	41.0	True ICA:	106.0	True EVC:	1.0	True ECA:	114.0
Cam Timing Summary:							
Intake Duration:	230.0	Exhaust Duration:	230.0				
Intake Centerline Angle:	106.0	Exhaust Centerline Angle:	114.0				
Lobe Centerline Angle:	110.0	Valve Overlap:	10.0				

NOTES

CYLINDER HEAD AIRFLOW DATA

Description: Boss 302 exch data

Intake Valve

Test Diameter: 2.190 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

Lift: in Flow: cfm

0.100 73.5

0.200 146.7

0.300 203.5

0.400 244.6

0.500 270.1

0.600 279.5

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Exhaust Valve

Test Diameter: 1.730 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

Lift: in Flow: cfm

0.100 47.2

0.200 80.0

0.300 117.0

0.400 149.1

0.500 173.4

0.600 186.5

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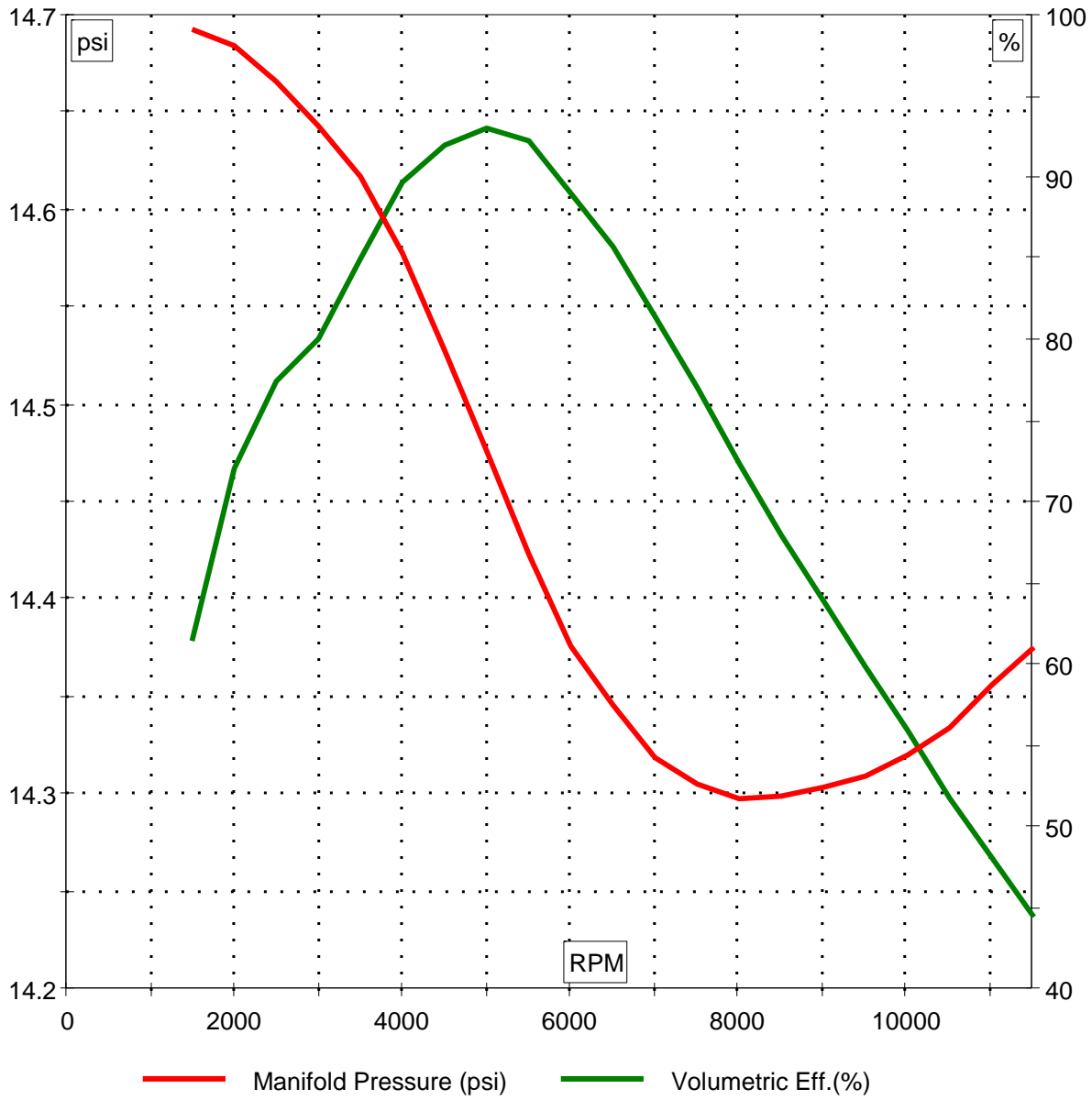
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CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	71	247	14.69	61.5	121.7
2000	117	307	14.68	72.1	151.3
2500	159	335	14.67	77.5	164.9
3000	198	346	14.64	80.1	170.5
3500	246	369	14.62	85.0	181.7
4000	294	386	14.58	89.7	190.0
4500	332	387	14.53	92.0	190.8
5000	361	380	14.48	93.0	187.0
5500	382	365	14.42	92.2	179.8
6000	386	338	14.38	89.0	166.5
6500	381	308	14.35	85.7	151.7
7000	358	268	14.32	81.4	132.2
7500	327	229	14.31	77.1	112.7
8000	285	187	14.30	72.4	92.1
8500	246	152	14.30	68.0	75.0
9000	204	119	14.30	64.0	58.6
9500	160	88	14.31	59.9	43.6
10000	111	58	14.32	56.0	28.6
10500	58	29	14.33	51.8	14.2
11000	4	2	14.36	48.2	1.0
11500	0	0	14.38	44.5	0.0





— Power (HP)-BOSS 302 HOWARDS 212241 CAM
— Torque (lb-ft)-BOSS 302 HOWARDS 212241 CAM