

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:	0.543 in	Lifter Type:	Hydraulic				
Exhaust Lift At Valve:	0.562 in	Lifter Acceleration Rate:	2.72	(Auto)			
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 36.0	IVC: 70.0	EVO: 81.0	EVC: 35.0			
Secondary Timing (0.050-inch):	IVO: 7.0	IVC: 39.0	EVO: 52.0	EVC: 4.0			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	36.0	True EVO:	81.0				
True IVC:	70.0	True ICA:	107.0	True EVC:	35.0	True ECA:	113.0
Cam Timing Summary:							
Intake Duration:	286.0	Exhaust Duration:	296.0				
Intake Centerline Angle:	107.0	Exhaust Centerline Angle:	113.0				
Lobe Centerline Angle:	110.0	Valve Overlap:	71.0				

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

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.100	73.5
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0.200	146.7
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0.300	203.5
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0.400	244.6
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0.500	270.1
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0.600	279.5
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Exhaust Valve

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

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.100	47.2
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0.200	80.0
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0.300	117.0
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0.400	149.1
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0.500	173.4
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0.600	186.5
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CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	52	182	14.70	53.0	89.8
2000	97	256	14.69	66.0	126.0
2500	138	289	14.67	72.9	142.4
3000	167	292	14.65	74.8	144.0
3500	213	320	14.63	81.5	157.8
4000	265	347	14.59	88.7	171.2
4500	309	360	14.53	93.1	177.4
5000	344	362	14.47	95.9	178.2
5500	371	355	14.41	97.1	174.6
6000	389	341	14.34	96.5	167.9
6500	400	323	14.28	95.6	159.2
7000	396	297	14.23	92.8	146.2
7500	391	274	14.19	90.6	135.0
8000	366	240	14.15	87.0	118.2
8500	339	209	14.12	83.0	103.1
9000	303	177	14.11	79.6	87.0
9500	259	143	14.10	75.9	70.6
10000	217	114	14.09	71.9	56.2
10500	158	79	14.10	67.5	39.0
11000	114	55	14.12	64.2	26.9
11500	60	27	14.12	61.1	13.5



