

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:	0.517 in	Lifter Type:	Solid
Exhaust Lift At Valve:	0.517 in	Lifter Acceleration Rate:	2.95 (Auto)

Valve Opening/Closing Based On: Seat-To-Seat

Primary Timing (Seat-to-Seat):	IVO: 25.0	IVC: 70.0	EVO: 73.0	EVC: 22.0
Secondary Timing (0.050-inch):	IVO: 4.0	IVC: 44.0	EVO: 52.0	EVC: -4.0

Cam Installed Advanced(+)/Retarded(-): 0.0

True IVO:	25.0	True EVO:	73.0				
True IVC:	70.0	True ICA:	112.5	True EVC:	22.0	True ECA:	115.5

Cam Timing Summary:

Intake Duration:	275.0	Exhaust Duration:	275.0
Intake Centerline Angle:	112.5	Exhaust Centerline Angle:	115.5
Lobe Centerline Angle:	114.0	Valve Overlap:	47.0

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	68	240	14.69	62.1	118.1
2000	111	293	14.68	71.6	144.1
2500	153	322	14.67	77.4	158.7
3000	187	327	14.64	78.9	161.1
3500	233	350	14.62	83.9	172.6
4000	282	370	14.58	89.2	182.2
4500	322	376	14.53	92.4	185.4
5000	354	372	14.47	94.1	183.0
5500	375	358	14.42	93.5	176.5
6000	383	335	14.37	91.1	165.0
6500	378	305	14.33	87.5	150.4
7000	358	269	14.30	83.4	132.3
7500	337	236	14.29	79.3	116.2
8000	292	192	14.27	75.0	94.5
8500	253	156	14.27	70.5	77.0
9000	214	125	14.27	66.7	61.4
9500	170	94	14.28	62.6	46.2
10000	128	67	14.29	58.8	33.0
10500	65	33	14.30	53.9	16.1
11000	14	7	14.33	50.3	3.3
11500	0	0	14.35	46.7	0.0



