

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: 0.552 in Lifter Type: Solid

Exhaust Lift At Valve: 0.571 in Lifter Acceleration Rate: 2.75 (Auto)

Valve Opening/Closing Based On: 0.050-inch

Primary Timing (0.050-inch): IVO: 2.0 IVC: 42.0 EVO: 46.0 EVC: 6.0

Secondary Timing (Seat-to-Seat): IVO: 34.0 IVC: 74.0 EVO: 75.0 EVC: 35.0

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

True IVO: 2.0 True EVO: 46.0

True IVC: 42.0 True ICA: 110.0 True EVC: 6.0 True ECA: 110.0

Cam Timing Summary:

Intake Duration: 224.0 Exhaust Duration: 232.0

Intake Centerline Angle: 110.0 Exhaust Centerline Angle: 110.0

Lobe Centerline Angle: 110.0 Valve Overlap: 8.0

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	239	14.69	60.3	118.0
2000	113	296	14.68	70.2	145.6
2500	155	325	14.67	76.1	160.2
3000	190	333	14.64	77.9	164.0
3500	237	355	14.62	82.8	174.9
4000	286	375	14.58	88.1	185.0
4500	326	381	14.53	91.0	187.6
5000	357	375	14.48	92.3	184.8
5500	385	367	14.43	93.1	180.9
6000	396	346	14.37	91.3	170.7
6500	396	320	14.33	88.9	157.8
7000	387	290	14.29	85.4	142.9
7500	370	259	14.27	82.0	127.6
8000	343	225	14.25	78.4	110.9
8500	305	189	14.23	74.1	92.9
9000	263	153	14.23	70.3	75.6
9500	220	122	14.23	66.5	60.0
10000	174	91	14.23	62.7	44.9
10500	119	60	14.24	58.2	29.4
11000	77	37	14.27	55.2	18.1
11500	18	8	14.27	51.5	4.0



