

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:	0.562 in	Lifter Type:	Roller Solid
Exhaust Lift At Valve:	0.562 in	Lifter Acceleration Rate:	4.86 (Auto)

Valve Opening/Closing Based On: 0.050-inch

Primary Timing (0.050-inch):	IVO: 15.0	IVC: 43.0	EVO: 51.0	EVC: 7.0
Secondary Timing (Seat-to-Seat):	IVO: 34.0	IVC: 74.0	EVO: 49.0	EVC: 9.0

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

True IVO:	15.0	True EVO:	51.0				
True IVC:	43.0	True ICA:	104.0	True EVC:	7.0	True ECA:	112.0

Cam Timing Summary:

Intake Duration:	238.0	Exhaust Duration:	238.0
Intake Centerline Angle:	104.0	Exhaust Centerline Angle:	112.0
Lobe Centerline Angle:	108.0	Valve Overlap:	22.0

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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CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	73	256	14.69	59.6	126.2
2000	122	319	14.68	70.2	157.3
2500	166	348	14.67	75.5	171.4
3000	207	362	14.65	78.5	178.3
3500	257	386	14.62	83.5	190.2
4000	309	406	14.58	88.6	200.1
4500	351	409	14.53	91.0	201.7
5000	385	404	14.48	92.3	199.0
5500	410	391	14.43	92.0	192.7
6000	419	367	14.38	89.6	180.8
6500	419	338	14.34	87.0	166.7
7000	405	304	14.31	83.2	149.9
7500	381	267	14.29	79.2	131.5
8000	350	230	14.28	75.3	113.3
8500	312	193	14.27	71.0	94.9
9000	267	156	14.27	67.1	76.7
9500	220	122	14.27	63.0	59.9
10000	172	90	14.28	59.3	44.5
10500	115	57	14.29	54.6	28.2
11000	64	31	14.32	51.1	15.1
11500	7	3	14.33	47.8	1.5



