

## 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: Ford 31-334-4 V8

Intake Lift At Valve:	0.528 in	Lifter Type:	Solid
Exhaust Lift At Valve:	0.528 in	Lifter Acceleration Rate:	3.00 (Auto)

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

Primary Timing (Seat-to-Seat):	IVO: 35.0	IVC: 67.0	EVO: 75.0	EVC: 27.0
Secondary Timing (0.050-inch):	IVO: 12.0	IVC: 44.0	EVO: 52.0	EVC: 4.0

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

True IVO:	35.0	True EVO:	75.0				
True IVC:	67.0	True ICA:	106.0	True EVC:	27.0	True ECA:	114.0

## Cam Timing Summary:

Intake Duration:	282.0	Exhaust Duration:	282.0
Intake Centerline Angle:	106.0	Exhaust Centerline Angle:	114.0
Lobe Centerline Angle:	110.0	Valve Overlap:	62.0

## NOTES

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## 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	61	215	14.69	56.3	105.7
2000	107	280	14.69	68.4	138.1
2500	147	309	14.67	74.2	152.0
3000	181	316	14.65	76.7	155.9
3500	229	344	14.62	82.9	169.4
4000	279	366	14.58	88.8	180.4
4500	321	375	14.53	92.4	184.7
5000	353	371	14.47	94.3	182.7
5500	380	363	14.42	94.9	178.7
6000	392	344	14.36	93.3	169.2
6500	395	319	14.31	91.2	157.1
7000	386	290	14.27	88.0	142.6
7500	370	259	14.24	84.0	127.5
8000	338	222	14.22	80.6	109.3
8500	301	186	14.20	76.2	91.7
9000	258	150	14.20	72.5	74.0
9500	209	116	14.20	67.9	56.9
10000	168	88	14.21	64.3	43.4
10500	109	55	14.22	60.0	27.0
11000	61	29	14.24	56.4	14.3
11500	0	0	14.26	52.7	0.0



