

SHORT BLOCK

Short Block:	Ford 302				
No. Cylinders:	8	Bore:	4.002 in	Rod Length:	4.908 in
Total Volume:	301.9 ci	Stroke:	3.000 in	Rod Ratio:	1.636

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:	68.71 cc	Cylinder Volume:	618.40 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:	0.514 in	Lifter Type:	Solid
Exhaust Lift At Valve:	0.511 in	Lifter Acceleration Rate:	3.00

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

Primary Timing (Seat-to-Seat):	IVO: 33.5	IVC: 69.5	EVO: 70.5	EVC: 10.5
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***

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

True IVO:	33.5	True EVO:	70.5				
True IVC:	69.5	True ICA:	108.0	True EVC:	10.5	True ECA:	120.0

Cam Timing Summary:

Intake Duration:	283.0	Exhaust Duration:	261.0
Intake Centerline Angle:	108.0	Exhaust Centerline Angle:	120.0
Lobe Centerline Angle:	114.0	Valve Overlap:	44.0

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	66	233	14.69	60.4	116.3
2000	109	286	14.69	70.3	143.1
2500	149	312	14.67	75.2	155.9
3000	183	321	14.65	77.4	160.2
3500	229	343	14.62	82.3	171.3
4000	274	359	14.59	87.0	179.4
4500	306	358	14.54	88.6	178.6
5000	329	346	14.50	88.3	172.8
5500	336	321	14.46	85.6	160.4
6000	322	282	14.43	80.7	140.8
6500	304	246	14.42	76.7	122.9
7000	264	198	14.40	71.4	98.8
7500	233	163	14.41	67.2	81.4
8000	195	128	14.40	63.2	64.0
8500	153	95	14.40	58.4	47.3
9000	110	64	14.42	54.4	32.1
9500	62	35	14.43	50.4	17.2
10000	15	8	14.44	46.5	3.9
10500	0	0	14.46	41.7	0.0
11000	0	0	14.48	38.4	0.0
11500	0	0	14.50	35.3	0.0



