

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:	0.532 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.554 in	Lifter Acceleration Rate:	3.00				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 30.0	IVC: 68.0	EVO: 83.0	EVC: 25.0			
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	30.0	True EVO:	83.0				
True IVC:	68.0	True ICA:	109.0	True EVC:	25.0	True ECA:	119.0
Cam Timing Summary:							
Intake Duration:	278.0	Exhaust Duration:	288.0				
Intake Centerline Angle:	109.0	Exhaust Centerline Angle:	119.0				
Lobe Centerline Angle:	114.0	Valve Overlap:	55.0				

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	64	223	14.69	62.8	111.4
2000	107	281	14.68	74.4	140.6
2500	148	310	14.66	80.5	155.0
3000	181	316	14.64	82.6	158.1
3500	228	342	14.61	88.4	170.6
4000	277	364	14.57	94.6	181.7
4500	319	373	14.51	98.3	186.2
5000	351	369	14.45	100.1	184.1
5500	376	359	14.39	100.3	179.3
6000	388	340	14.33	98.3	169.6
6500	389	314	14.28	95.8	157.0
7000	373	280	14.24	91.4	139.7
7500	361	253	14.22	87.7	126.4
8000	322	212	14.19	83.3	105.7
8500	283	175	14.18	78.6	87.2
9000	242	141	14.19	74.7	70.5
9500	195	108	14.18	70.0	53.9
10000	153	80	14.20	66.0	40.2
10500	91	46	14.21	60.9	22.7
11000	41	20	14.24	57.2	9.8
11500	0	0	14.25	53.4	0.0



