

## 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	@	3.00 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:	0.585 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.585 in	Lifter Acceleration Rate:	3.00				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 31.0	IVC: 69.0	EVO: 69.0	EVC: 31.0			
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	31.0	True EVO:	69.0				
True IVC:	69.0	True ICA:	109.0	True EVC:	31.0	True ECA:	109.0
Cam Timing Summary:							
Intake Duration:	280.0	Exhaust Duration:	280.0				
Intake Centerline Angle:	109.0	Exhaust Centerline Angle:	109.0				
Lobe Centerline Angle:	109.0	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	60	211	14.69	54.2	105.3
2000	103	271	14.68	65.1	135.3
2500	143	300	14.65	71.1	150.0
3000	174	304	14.61	72.6	151.9
3500	219	329	14.57	78.2	164.3
4000	269	353	14.50	84.1	176.1
4500	309	361	14.41	87.5	180.3
5000	343	360	14.31	89.6	179.9
5500	368	351	14.20	90.3	175.5
6000	382	334	14.10	89.0	167.0
6500	390	315	14.01	87.9	157.2
7000	384	288	13.92	85.2	144.0
7500	375	263	13.86	82.4	131.3
8000	345	227	13.81	78.9	113.2
8500	312	193	13.78	74.9	96.4
9000	271	158	13.77	71.3	79.0
9500	234	129	13.76	68.0	64.7
10000	197	103	13.75	64.7	51.6
10500	145	73	13.75	60.9	36.2
11000	101	48	13.78	57.8	24.1
11500	47	21	13.79	54.4	10.6



