

## 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:	0.586 in	Lifter Type:	Solid
Exhaust Lift At Valve:	0.571 in	Lifter Acceleration Rate:	3.00

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

Primary Timing (Seat-to-Seat):	IVO: 37.0	IVC: 57.0	EVO: 74.0	EVC: 34.0
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***

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

True IVO:	37.0	True EVO:	74.0				
True IVC:	57.0	True ICA:	100.0	True EVC:	34.0	True ECA:	110.0

## Cam Timing Summary:

Intake Duration:	274.0	Exhaust Duration:	288.0
Intake Centerline Angle:	100.0	Exhaust Centerline Angle:	110.0
Lobe Centerline Angle:	105.0	Valve Overlap:	71.0

## 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	58	204	14.70	54.6	101.7
2000	106	278	14.69	66.9	138.7
2500	147	310	14.67	73.6	154.7
3000	183	320	14.65	76.8	160.0
3500	230	345	14.63	82.7	172.4
4000	278	364	14.59	88.1	182.0
4500	318	371	14.54	91.4	185.4
5000	348	366	14.49	93.0	182.7
5500	374	357	14.43	93.5	178.2
6000	389	340	14.38	92.1	169.9
6500	394	318	14.33	90.2	158.9
7000	389	292	14.29	87.8	145.7
7500	380	266	14.25	84.8	133.0
8000	349	229	14.23	80.9	114.4
8500	319	197	14.21	77.0	98.4
9000	277	161	14.21	73.4	80.7
9500	234	130	14.20	69.6	64.7
10000	194	102	14.20	66.1	51.0
10500	140	70	14.20	61.9	35.0
11000	94	45	14.22	58.7	22.5
11500	41	19	14.23	55.6	9.3



