

## 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:	0.562 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.589 in	Lifter Acceleration Rate:	3.00				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 47.5	IVC: 67.5	EVO: 96.5	EVC: 28.5			
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	47.5	True EVO:	96.5				
True IVC:	67.5	True ICA:	100.0	True EVC:	28.5	True ECA:	124.0

Cam Timing Summary:

Intake Duration:	295.0	Exhaust Duration:	305.0
Intake Centerline Angle:	100.0	Exhaust Centerline Angle:	124.0
Lobe Centerline Angle:	112.0	Valve Overlap:	76.0

## 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

\*\*\*                      \*\*\*

\*\*\*                      \*\*\*

\*\*\*                      \*\*\*

\*\*\*                      \*\*\*

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

\*\*\*                      \*\*\*

\*\*\*                      \*\*\*

\*\*\*                      \*\*\*

\*\*\*                      \*\*\*

## CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	44	155	14.70	54.5	77.6
2000	91	238	14.69	72.7	118.8
2500	127	267	14.67	78.8	133.5
3000	159	278	14.64	82.5	138.8
3500	208	311	14.61	91.3	155.6
4000	258	339	14.56	99.8	169.5
4500	301	352	14.49	104.6	175.8
5000	336	352	14.42	107.3	176.1
5500	362	345	14.34	108.6	172.5
6000	378	331	14.26	107.1	165.3
6500	382	308	14.20	104.9	154.0
7000	374	281	14.15	101.6	140.2
7500	365	256	14.10	97.9	127.7
8000	326	214	14.07	93.6	107.0
8500	293	181	14.05	88.2	90.4
9000	251	146	14.05	84.6	73.2
9500	204	113	14.04	79.7	56.3
10000	161	85	14.05	75.2	42.4
10500	98	49	14.06	70.3	24.5
11000	51	24	14.09	66.5	12.1
11500	0	0	14.10	62.6	0.0



