

## 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:	0.540 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: 38.0	IVC: 74.0	EVO: 81.0	EVC: 37.0
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***

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

True IVO:	38.0	True EVO:	81.0				
True IVC:	74.0	True ICA:	108.0	True EVC:	37.0	True ECA:	112.0

## Cam Timing Summary:

Intake Duration:	292.0	Exhaust Duration:	298.0
Intake Centerline Angle:	108.0	Exhaust Centerline Angle:	112.0
Lobe Centerline Angle:	110.0	Valve Overlap:	75.0

## 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

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.100	73.5
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0.200	146.7
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0.300	203.5
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0.400	244.6
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0.500	270.1
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0.600	279.5
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Exhaust Valve

Test Diameter: 1.730 in  
 Pressure Drop: 28.0 inH2O  
 Valves Per Port: 1

<u>Lift: in</u>	<u>Flow: cfm</u>
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0.100	47.2
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0.200	80.0
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0.300	117.0
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0.400	149.1
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0.500	173.4
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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	46	161	14.70	48.5	80.4
2000	89	233	14.69	61.6	116.4
2500	128	268	14.68	68.9	134.0
3000	155	271	14.66	70.7	135.5
3500	198	297	14.64	76.9	148.3
4000	250	328	14.60	84.9	163.8
4500	295	344	14.55	90.0	172.0
5000	333	349	14.49	93.4	174.5
5500	361	345	14.43	95.2	172.4
6000	381	333	14.36	95.1	166.6
6500	395	319	14.31	94.7	159.4
7000	393	295	14.25	92.6	147.1
7500	392	275	14.20	90.7	137.2
8000	372	244	14.16	87.4	121.8
8500	349	215	14.13	83.7	107.6
9000	314	183	14.12	80.3	91.5
9500	282	156	14.10	77.4	77.8
10000	239	126	14.08	73.7	62.8
10500	180	90	14.08	69.2	44.9
11000	140	67	14.10	66.4	33.5
11500	89	41	14.10	63.5	20.3



