

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:	0.584 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.584 in	Lifter Acceleration Rate:	3.00				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 44.0	IVC: 76.0	EVO: 80.0	EVC: 40.0			
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	44.0	True EVO:	80.0				
True IVC:	76.0	True ICA:	106.0	True EVC:	40.0	True ECA:	110.0

Cam Timing Summary:

Intake Duration:	300.0	Exhaust Duration:	300.0
Intake Centerline Angle:	106.0	Exhaust Centerline Angle:	110.0
Lobe Centerline Angle:	108.0	Valve Overlap:	84.0

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

<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	36	127	14.70	40.6	63.6
2000	78	206	14.69	55.2	102.7
2500	116	244	14.68	62.7	121.8
3000	142	248	14.66	65.0	124.1
3500	183	275	14.65	71.6	137.5
4000	236	309	14.62	80.2	154.5
4500	282	330	14.57	86.0	164.6
5000	321	337	14.51	89.8	168.3
5500	350	334	14.45	92.3	166.8
6000	370	324	14.39	92.1	161.7
6500	384	311	14.33	92.0	155.1
7000	388	291	14.27	90.8	145.4
7500	389	273	14.22	88.9	136.1
8000	373	245	14.18	86.1	122.2
8500	350	216	14.15	82.4	107.9
9000	311	181	14.13	78.8	90.5
9500	280	155	14.12	76.0	77.4
10000	250	131	14.11	73.4	65.5
10500	192	96	14.09	69.2	48.1
11000	153	73	14.11	66.5	36.4
11500	104	48	14.10	63.9	23.8



