

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:	0.588 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.588 in	Lifter Acceleration Rate:	3.00				
Valve Opening/Closing Based On:	Seat-To-Seat						
Primary Timing (Seat-to-Seat):	IVO: 43.0	IVC: 63.0	EVO: 83.0	EVC: 31.0			
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	43.0	True EVO:	83.0				
True IVC:	63.0	True ICA:	100.0	True EVC:	31.0	True ECA:	116.0
Cam Timing Summary:							
Intake Duration:	286.0	Exhaust Duration:	294.0				
Intake Centerline Angle:	100.0	Exhaust Centerline Angle:	116.0				
Lobe Centerline Angle:	108.0	Valve Overlap:	74.0				

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	51	178	14.70	52.7	88.8
2000	99	259	14.69	67.8	129.3
2500	137	287	14.67	73.7	143.4
3000	171	299	14.65	77.3	149.1
3500	219	329	14.62	84.4	164.3
4000	270	354	14.58	91.5	177.0
4500	312	365	14.53	95.5	182.1
5000	345	362	14.47	97.4	180.9
5500	370	353	14.41	98.1	176.4
6000	387	338	14.34	97.0	169.0
6500	393	318	14.29	95.3	158.7
7000	386	290	14.24	92.3	144.8
7500	378	265	14.21	89.4	132.3
8000	348	228	14.17	85.6	114.0
8500	318	196	14.16	81.3	98.0
9000	275	161	14.15	77.8	80.2
9500	230	127	14.14	73.4	63.5
10000	190	100	14.15	69.9	49.9
10500	131	65	14.15	65.2	32.6
11000	84	40	14.17	61.9	20.0
11500	26	12	14.18	58.3	5.8



