

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:	0.554 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: 34.0	IVC: 66.0	EVO: 70.0	EVC: 30.0
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***

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

True IVO:	34.0	True EVO:	70.0				
True IVC:	66.0	True ICA:	106.0	True EVC:	30.0	True ECA:	110.0

Cam Timing Summary:

Intake Duration:	280.0	Exhaust Duration:	280.0
Intake Centerline Angle:	106.0	Exhaust Centerline Angle:	110.0
Lobe Centerline Angle:	108.0	Valve Overlap:	64.0

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	60	211	14.70	54.2	105.2
2000	105	275	14.69	65.8	137.3
2500	145	304	14.67	71.8	151.8
3000	177	310	14.65	73.9	155.0
3500	224	337	14.63	79.9	168.2
4000	274	360	14.60	85.9	180.0
4500	316	369	14.55	89.3	184.2
5000	351	369	14.49	91.7	184.1
5500	377	360	14.44	92.4	179.6
6000	392	343	14.38	91.2	171.3
6500	397	321	14.34	89.5	160.4
7000	392	294	14.30	86.8	147.0
7500	383	268	14.26	84.0	134.0
8000	359	236	14.24	80.9	117.7
8500	324	200	14.21	76.7	100.1
9000	283	165	14.21	73.2	82.6
9500	241	133	14.20	69.5	66.7
10000	202	106	14.20	65.9	53.1
10500	147	73	14.21	61.6	36.7
11000	99	47	14.23	58.2	23.6
11500	48	22	14.24	55.1	10.9



