

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: Canted/Oval Stock Ports, Stock Valves

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:	9.70		
Combustion Space:	71.08 cc	Cylinder Volume:	618.40 cc

INDUCTION

Induction Flow:	750.0 cfm	@	1.50 inHg	Fuel Type:	Gasoline
Manifold Type:	Dual-Plane Manifold	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:	0.519 in	Lifter Type:	Solid				
Exhaust Lift At Valve:	0.519 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: 91.5	EVC: 23.5			
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***			
Cam Installed Advanced(+)/Retarded(-):	0.0						
True IVO:	47.5	True EVO:	91.5				
True IVC:	67.5	True ICA:	100.0	True EVC:	23.5	True ECA:	124.0
Cam Timing Summary:							
Intake Duration:	295.0	Exhaust Duration:	295.0				
Intake Centerline Angle:	100.0	Exhaust Centerline Angle:	124.0				
Lobe Centerline Angle:	112.0	Valve Overlap:	71.0				

NOTES

CYLINDER HEAD AIRFLOW DATA

Description: Canted/Oval Stock Ports, Stock Valves

Intake Valve

Test Diameter: 2.020 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

Exhaust Valve

Test Diameter: 1.600 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

Lift: in Flow: cfm

0.200 130.0

0.300 177.0

0.400 217.0

0.500 239.0

0.550 242.0

0.600 242.0

0.650 242.0

0.710 242.0

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Lift: in Flow: cfm

0.200 101.0

0.300 133.0

0.400 153.0

0.500 164.0

0.550 164.0

0.600 164.0

0.650 171.0

0.710 171.0

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CALCULATED POWER AND ENGINE PRESSURES

Engine RPM	Power (Fly)	Torque (Fly)	Int Man Pressure	Vol Eff %	BMEP Pressure
1500	53	184	14.70	57.7	92.1
2000	96	252	14.69	71.5	126.1
2500	122	257	14.67	73.3	128.3
3000	152	266	14.65	76.9	132.9
3500	205	308	14.63	87.3	153.8
4000	253	332	14.57	94.2	165.9
4500	296	345	14.52	98.8	172.3
5000	330	346	14.45	101.5	173.1
5500	353	337	14.38	102.6	168.4
6000	365	320	14.31	101.3	159.7
6500	365	295	14.25	99.1	147.4
7000	361	271	14.21	97.5	135.5
7500	349	244	14.15	93.4	122.0
8000	317	208	14.13	89.2	104.1
8500	295	182	14.11	85.4	90.9
9000	252	147	14.09	80.7	73.6
9500	213	118	14.10	76.7	58.8
10000	169	89	14.09	71.9	44.2
10500	113	56	14.11	67.9	28.2
11000	66	31	14.13	64.0	15.7
11500	8	4	14.14	60.6	1.9



