

## 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 @ 3.00 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:	0.532 in	Lifter Type:	Solid
Exhaust Lift At Valve:	0.585 in	Lifter Acceleration Rate:	3.00

Valve Opening/Closing Based On: Seat-To-Seat

Primary Timing (Seat-to-Seat):	IVO: 41.0	IVC: 79.0	EVO: 84.0	EVC: 46.0
Secondary Timing (0.050-inch):	IVO: ***	IVC: ***	EVO: ***	EVC: ***

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

True IVO:	41.0	True EVO:	84.0				
True IVC:	79.0	True ICA:	109.0	True EVC:	46.0	True ECA:	109.0

## Cam Timing Summary:

Intake Duration:	300.0	Exhaust Duration:	310.0
Intake Centerline Angle:	109.0	Exhaust Centerline Angle:	109.0
Lobe Centerline Angle:	109.0	Valve Overlap:	87.0

## 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	32	114	14.70	38.7	56.8
2000	72	189	14.69	53.4	94.2
2500	111	232	14.66	62.0	116.1
3000	134	234	14.63	63.8	116.8
3500	170	255	14.60	69.5	127.5
4000	220	289	14.54	78.5	144.4
4500	266	310	14.44	84.6	155.0
5000	304	319	14.33	88.8	159.5
5500	330	315	14.21	91.1	157.5
6000	351	307	14.09	91.3	153.6
6500	364	294	13.98	91.0	146.9
7000	366	275	13.87	89.8	137.2
7500	362	254	13.77	87.4	126.8
8000	348	229	13.70	85.2	114.2
8500	318	196	13.62	80.7	98.1
9000	287	168	13.62	77.9	83.7
9500	254	141	13.57	75.1	70.3
10000	217	114	13.54	71.8	57.0
10500	161	81	13.53	67.8	40.2
11000	127	60	13.56	65.5	30.2
11500	78	36	13.53	63.0	17.9



