

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: | 0.565 in | Lifter Type: | Solid | | | | |
| Exhaust Lift At Valve: | 0.565 in | Lifter Acceleration Rate: | 3.00 | | | | |
| Valve Opening/Closing Based On: | Seat-To-Seat | | | | | | |
| Primary Timing (Seat-to-Seat): | IVO: 37.0 | IVC: 57.0 | EVO: 75.0 | EVC: 19.0 | | | |
| Secondary Timing (0.050-inch): | IVO: *** | IVC: *** | EVO: *** | EVC: *** | | | |
| Cam Installed Advanced(+)/Retarded(-): | 4.0 | | | | | | |
| True IVO: | 41.0 | True EVO: | 79.0 | | | | |
| True IVC: | 53.0 | True ICA: | 96.0 | True EVC: | 15.0 | True ECA: | 122.0 |
| Cam Timing Summary: | | | | | | | |
| Intake Duration: | 274.0 | Exhaust Duration: | 274.0 | | | | |
| Intake Centerline Angle: | 100.0 | Exhaust Centerline Angle: | 118.0 | | | | |
| Lobe Centerline Angle: | 109.0 | Valve Overlap: | 56.0 | | | | |

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

Lift: in Flow: cfm

0.100 73.5

0.200 146.7

0.300 203.5

0.400 244.6

0.500 270.1

0.600 279.5

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Exhaust Valve

Test Diameter: 1.730 in
Pressure Drop: 28.0 inH2O
Valves Per Port: 1

Lift: in Flow: cfm

0.100 47.2

0.200 80.0

0.300 117.0

0.400 149.1

0.500 173.4

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 | 69 | 242 | 14.69 | 64.2 | 121.1 |
| 2000 | 116 | 304 | 14.67 | 76.1 | 151.8 |
| 2500 | 156 | 327 | 14.63 | 81.1 | 163.5 |
| 3000 | 195 | 341 | 14.58 | 84.9 | 170.6 |
| 3500 | 242 | 363 | 14.52 | 90.1 | 181.5 |
| 4000 | 283 | 372 | 14.43 | 93.5 | 185.8 |
| 4500 | 317 | 370 | 14.34 | 95.0 | 184.7 |
| 5000 | 341 | 358 | 14.24 | 94.4 | 178.8 |
| 5500 | 349 | 333 | 14.15 | 91.7 | 166.5 |
| 6000 | 342 | 299 | 14.08 | 86.7 | 149.6 |
| 6500 | 319 | 258 | 14.05 | 81.9 | 128.7 |
| 7000 | 276 | 207 | 14.03 | 76.0 | 103.3 |
| 7500 | 242 | 170 | 14.03 | 71.2 | 84.7 |
| 8000 | 202 | 132 | 14.03 | 67.0 | 66.1 |
| 8500 | 155 | 96 | 14.03 | 61.5 | 47.8 |
| 9000 | 107 | 63 | 14.07 | 57.2 | 31.3 |
| 9500 | 56 | 31 | 14.09 | 52.8 | 15.4 |
| 10000 | 8 | 4 | 14.13 | 48.8 | 2.0 |
| 10500 | 0 | 0 | 14.16 | 44.4 | 0.0 |
| 11000 | 0 | 0 | 14.21 | 40.8 | 0.0 |
| 11500 | 0 | 0 | 14.25 | 37.2 | 0.0 |



