

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: | 0.583 in | Lifter Type: | Solid | | | | |
| Exhaust Lift At Valve: | 0.599 in | Lifter Acceleration Rate: | 3.00 | | | | |
| Valve Opening/Closing Based On: | Seat-To-Seat | | | | | | |
| Primary Timing (Seat-to-Seat): | IVO: 35.0 | IVC: 75.0 | EVO: 72.0 | EVC: 48.0 | | | |
| Secondary Timing (0.050-inch): | IVO: *** | IVC: *** | EVO: *** | EVC: *** | | | |
| Cam Installed Advanced(+)/Retarded(-): | 0.0 | | | | | | |
| True IVO: | 35.0 | True EVO: | 72.0 | | | | |
| True IVC: | 75.0 | True ICA: | 110.0 | True EVC: | 48.0 | True ECA: | 102.0 |
| Cam Timing Summary: | | | | | | | |
| Intake Duration: | 290.0 | Exhaust Duration: | 300.0 | | | | |
| Intake Centerline Angle: | 110.0 | Exhaust Centerline Angle: | 102.0 | | | | |
| Lobe Centerline Angle: | 106.0 | Valve Overlap: | 83.0 | | | | |

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

Exhaust Valve

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

Lift: inFlow: 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

Lift: inFlow: 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

CALCULATED POWER AND ENGINE PRESSURES

| Engine RPM | Power (Fly) | Torque (Fly) | Int Man Pressure | Vol Eff % | BMEP Pressure |
|------------|-------------|--------------|------------------|-----------|---------------|
| 1500 | 41 | 144 | 14.70 | 41.9 | 71.9 |
| 2000 | 80 | 211 | 14.69 | 53.2 | 105.2 |
| 2500 | 121 | 254 | 14.68 | 61.7 | 126.9 |
| 3000 | 144 | 252 | 14.66 | 62.6 | 126.1 |
| 3500 | 183 | 275 | 14.65 | 68.2 | 137.3 |
| 4000 | 235 | 308 | 14.62 | 76.2 | 153.9 |
| 4500 | 281 | 328 | 14.58 | 81.7 | 163.6 |
| 5000 | 321 | 337 | 14.53 | 85.6 | 168.3 |
| 5500 | 350 | 334 | 14.47 | 87.9 | 166.9 |
| 6000 | 372 | 326 | 14.41 | 88.1 | 162.6 |
| 6500 | 388 | 314 | 14.36 | 88.2 | 156.7 |
| 7000 | 393 | 295 | 14.31 | 87.0 | 147.4 |
| 7500 | 396 | 277 | 14.26 | 85.5 | 138.4 |
| 8000 | 383 | 251 | 14.22 | 83.2 | 125.6 |
| 8500 | 356 | 220 | 14.19 | 79.2 | 109.8 |
| 9000 | 327 | 191 | 14.18 | 76.2 | 95.3 |
| 9500 | 296 | 164 | 14.16 | 73.2 | 81.7 |
| 10000 | 268 | 141 | 14.15 | 70.7 | 70.4 |
| 10500 | 215 | 107 | 14.13 | 67.2 | 53.7 |
| 11000 | 178 | 85 | 14.14 | 64.7 | 42.4 |
| 11500 | 128 | 59 | 14.13 | 61.8 | 29.2 |



