

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: | 0.550 in | Lifter Type: | Solid | | | | |
| Exhaust Lift At Valve: | 0.559 in | Lifter Acceleration Rate: | 3.00 | | | | |
| Valve Opening/Closing Based On: | 0.050-Lift | | | | | | |
| Primary Timing (0.050-inch): | IVO: 12.5 | IVC: 44.5 | EVO: 53.5 | EVC: 13.5 | | | |
| Secondary Timing (Seat-to-Seat): | IVO: *** | IVC: *** | EVO: *** | EVC: *** | | | |
| Cam Installed Advanced(+)/Retarded(-): | 0.0 | | | | | | |
| True IVO: | 12.5 | True EVO: | 53.5 | | | | |
| True IVC: | 44.5 | True ICA: | 106.0 | True EVC: | 13.5 | True ECA: | 110.0 |
| Cam Timing Summary: | | | | | | | |
| Intake Duration: | 237.0 | Exhaust Duration: | 247.0 | | | | |
| Intake Centerline Angle: | 106.0 | Exhaust Centerline Angle: | 110.0 | | | | |
| Lobe Centerline Angle: | 108.0 | Valve Overlap: | 26.0 | | | | |

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 | 57 | 201 | 14.70 | 53.7 | 100.3 |
| 2000 | 102 | 268 | 14.69 | 65.9 | 134.0 |
| 2500 | 142 | 299 | 14.67 | 72.4 | 149.4 |
| 3000 | 174 | 305 | 14.65 | 74.6 | 152.2 |
| 3500 | 221 | 331 | 14.63 | 80.6 | 165.4 |
| 4000 | 271 | 356 | 14.59 | 87.2 | 178.0 |
| 4500 | 313 | 365 | 14.54 | 90.7 | 182.5 |
| 5000 | 349 | 367 | 14.49 | 93.4 | 183.1 |
| 5500 | 375 | 358 | 14.43 | 94.0 | 178.7 |
| 6000 | 392 | 343 | 14.37 | 93.1 | 171.5 |
| 6500 | 403 | 326 | 14.32 | 92.4 | 162.8 |
| 7000 | 399 | 299 | 14.27 | 89.6 | 149.5 |
| 7500 | 393 | 275 | 14.24 | 87.1 | 137.5 |
| 8000 | 372 | 244 | 14.20 | 84.1 | 121.8 |
| 8500 | 335 | 207 | 14.17 | 79.4 | 103.5 |
| 9000 | 300 | 175 | 14.18 | 76.0 | 87.4 |
| 9500 | 260 | 144 | 14.16 | 72.6 | 71.8 |
| 10000 | 221 | 116 | 14.16 | 69.2 | 58.0 |
| 10500 | 165 | 82 | 14.16 | 64.9 | 41.2 |
| 11000 | 121 | 58 | 14.18 | 61.6 | 29.0 |
| 11500 | 69 | 32 | 14.18 | 58.6 | 15.8 |



