

2003 SVT Mustang Cobra Powertrain

2003 Ford SVT Mustang Cobra Technical Data

Engine	
Configuration	Longitudinally mounted, 90-degree V-8, cast iron block with aluminum heads, fully counterweighted forged crankshaft
Bore x Stroke	90.2mm x 90.0mm
Displacement	4,601cc; 280 cu. in.
Compression ratio	8.5:1
Horsepower	390 @ 6,000 rpm
Torque	390 @ 3,500 rpm
Specific output	84.8 horsepower per liter
Redline	6,500 rpm (fuel shut-off occurs at 6,500 rpm)
Valvetrain	Double overhead camshafts, chain drive to exhaust cams, secondary chains from exhaust to intake cams, roller finger followers with hydraulic lash adjustment, oval-wire beehive-shaped valve springs, four valves per cylinder
Intake valves	2 per cylinder, 37mm head diameter
Exhaust valves	2 per cylinder, 30mm head diameter
Ignition system	Distributorless coil-on-plug
Fuel system	Sequential electronic fuel injection
Induction system	Eaton™ Corporation Generation IV Roots- type supercharger with water-to-air intercooler
Boost pressure	8.0 psi maximum
Intake manifold	Cast aluminum, tuned equal-length runners
Throttle body	57mm twin bore
Mass-air sensor	90mm diameter
Exhaust manifolds	Cast iron
Exhaust system	Dual, stainless steel, 2.25-in. diameter; 3.0-in. polished exhaust tips

Drivetrain	
Rear axle	8.8-in. ring gear with 3.55:1 limited-slip differential, aluminum case
Driveshaft	Aluminum, with hardened yoke, 1350 U-Joints
Transmission	TTC T-56 6-speed manual
Clutch	11.0-in. single-plate
Half-Shafts	31-spline with increased capacity
Gear	Ratio
1st	2.66
2nd	1.78
3rd	1.30
4th	1.00
5th	0.80
6th	0.63
Reverse	2.90
Final Drive	3.55
Suspension - front	Modified Macpherson strut system with gas-charged Bilstein™ monotube dampers and separate 600 lb./in. coil springs (500 lb./in. on convertible), 29mm tubular stabilizer bar
Suspension - rear	Multi-link independent system, cast-iron upper control arms, aluminum lower control arms, fixed toe-control tie rods, aluminum spindles, gas-charged Bilstein™ monotube dampers, 600 lb./in. coil springs (470 lb./in. on convertible), 26mm tubular stabilizer bar
Steering Type	Rack and pinion, power assist
Gear Ratio	15.0:1
Turns Lock-to-Lock	2.5
Turning Diameter	41.7 ft.
Brakes-front	13.0 in. (330mm) vented Brembo™ disc, PBR™ twin-piston caliper
Brakes-rear	11.65 in. (296mm) vented disc, single-piston caliper

ABS	Four-channel, four-sensor system
Wheels	17 x 9 in., five-spoke, cast aluminum-alloy, machined surface, exposed lugs, optional chrome wheel available
Tires	Goodyear TM Eagle F1, 275/40ZR-17
Dimensions	
Wheelbase	101.3 in. (2,573mm)
Length	183.5 in. (4,661mm)
Height	Coupe 52.5 in. (1,336mm) Convertible 52.9 in. (1,344mm)
Width	73.1 in. (1,857mm)
Track (front and rear)	60.3 in. (1,530mm)
Head room, f/r	38.1 in. / 35.5 in. (968mm / 901mm)
Leg room, f/r	41.8 in. / 29.9 in. (1,062mm / 759mm)
Curb weight	Coupe 3,665 lb. (1,662 kg) Convertible 3,780 lb. (1,715 kg)
Fuel capacity	15.7 gallons (59.4 liters)
Weight distribution, f/r	57% / 43%
Color and Trim	
Exterior	Oxford White Clearcoat, Ebony Clearcoat, Torch Red Clearcoat, Sonic Blue Clearcoat Metallic, Satin Silver Clearcoat Metallic, Mineral Grey Clearcoat Metallic, Zinc Yellow Clearcoat
Interior	Dark Charcoal with either Medium Parchment or Medium Graphite accents