



2004 Product Information



>>> CHEVROLET CORVETTE

NEW FOR 2004

- Commemorative editions of Coupe, Convertible and Z06 mark racing success
- Exterior colors: Arctic White, Machine Silver, Magnetic Red and Le Mans Blue (commemoratives only)
- Revised shock valving on Z06
- Carbon fiber hood on Z06

MODEL LINEUP

	ENGINES		TRANSMISSIONS	
	5.7L V-8 LS1	5.7L V-8 LS6	4-spd auto (Hydra-Matic 4L60-E)	6-spd man (MM6/M12)
Coupe	s	—	s	o
Convertible	s	—	s	o
Z06	—	s	—	s

Key:

Standard	s
Optional	o
Not available	—



COMMEMORATIVE EDITIONS MARK CORVETTE'S RACING SUCCESS

The Chevrolet Corvette maintains its well-earned status as the automotive and cultural icon that has been admired and sought after for a generation. For the 2004 model year, commemorative editions for each Corvette model are available so enthusiasts can celebrate the racing success of the Chevy flagship.

Also, the top-of-the-line Corvette Z06 – already hailed by enthusiast magazines as the best combination of performance, comfort and value in the automotive world – gets even better for 2004 with revised shock valving based on testing at the legendary Nürburgring race track in Germany.

Corvette also has earned two consecutive quality awards from J.D. Power and Associates and continues to win accolades for its surprising interior room, cargo space, comfort and fuel economy in a high-performance sports car.

Only a handful of cars in the history of the industry have shown the Corvette's ability to capture the fancy of so many consumers and hold it for so long. As the golden anniversary celebration continues, it is a testament to the ability of Corvette's engineers to keep the car as fresh and cutting edge as it was in 1953.

Corvette has remained relevant because it continued to embrace new designs and technologies such as those featured on the current line: Magnetic Selective Ride Control, Goodyear EMT "run-flat" tires (coupe and convertible), active handling and a rear transaxle.

Commemorative editions

The commemorative editions recognize the success of the C5-R racing program. In 2002, the Corvette C5 continued to dominate the field with nine wins in 10 American Le Mans Series races, also nabbing the 2002 GTS Manufacturer Champion and GTS Team Champion awards. Combined with a second consecutive victory at the 24 Hours of Le Mans, Corvette continued to make history.

The Commemorative Edition Coupe and Convertible include new Le Mans Blue paint with Shale interior, special badges and polished wheels. The convertible's top also is Shale to match the interior.



The Commemorative Edition Z06 also is Le Mans Blue and also includes a C5-R Le Mans stripe scheme, special badges, polished Z06 wheels and a lightweight carbon fiber hood.

Z06 ride tempered at Nürburgring

Over the period of a month in 2002, engineers put the Z06 through its paces at Germany's fabled Nürburgring racetrack to give the definitive street-legal sports car an even better ride. Since it was completed in 1927, the 12.8-mile (20.6 km) Nürburgring circuit has been the ultimate challenge for vehicle dynamics. The course has 177 corners, and in between them is every conceivable combination of radius, camber and gradient – not to mention altitude that varies by nearly 1,000 feet (305 m). No other track in the world places such extreme demands on a vehicle's suspension, brakes and powertrain, which is why Nürburgring is where the world's finest sports cars are regularly tested.

After a month in Germany, it was back to General Motors Milford Proving Grounds, where new shock absorber valving was “dialed in” and balanced for optimum performance on American roads.

The result is a suspension that feels “more tied down, more glued to the road,” said Harlan Charles, product manager for the Corvette.

Magnetic Selective Ride Control

The suspensions of the 2004 Corvette coupe and convertible continue to feature Magnetic Selective Ride Control, which debuted in 2003. It uses a revolutionary damper design that controls wheel and body motion with magneto-rheological fluid in the shocks. By controlling the current to an electromagnetic coil inside the piston of the damper, the MR fluid’s consistency can be changed, resulting in continuously variable real-time damping. As a result, drivers feel a greater sense of security, a quieter, flatter ride and more precise, responsive handling, particularly during sudden, high-speed maneuvers.



The system isolates and smoothes the action of each tire, resulting in less bouncing, vibration and noise. On bumpy or slick surfaces, the system integrates with traction control to assure maximum stability. It also works with ABS to keep the vehicle balanced and poised. It is the only system without electro-mechanical valves and no small moving parts. It consists of MR fluid-based, monotube shock absorbers, a sensor set and on-board controller.

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SPECIFICATIONS

OVERVIEW

Models:	Chevrolet Corvette coupe, convertible, Z06
Body style / driveline:	2-door hatchback coupe, convertible and hardtop; rear-drive, front-engine
Construction:	composite
EPA vehicle class:	sports car
Manufacturing location:	Bowling Green, Kentucky
Key competitors:	Audi TT, BMW Z4, Dodge Viper, Porsche Boxster and Boxster S, Porsche 911

ENGINES

	5.7L V-8 (LS1)	5.7L V-8 (LS6)
Application:	standard on coupe, convertible	standard on Z06
Type:	5.7L V-8	5.7L V-8
Displacement (cu in / cc):	346 / 5665	346 / 5665
Bore & stroke (in / mm):	3.90 x 3.62 / 99 x 92	3.90 x 3.62 / 99 x 92
Block material:	cast aluminum	cast aluminum
Cylinder head material:	cast aluminum	cast aluminum
Valvetrain:	OHV, 2 valves per cylinder	OHV, 2 valves per cylinder
Fuel delivery:	sequential fuel injection	sequential fuel injection
Compression ratio:	10.1:1	10.5:1
Horsepower (hp / kw @ rpm):	350 / 261 @ 5200	405 / 302 @ 6000
Torque (lb-ft / Nm @ rpm):	manual: 375 / 508 @ 4000 automatic: 360 / 489 @ 4000	400 / 542 @ 4800
Recommended fuel:	93 octane	93 octane
Maximum engine speed (rpm):	6000	6500
Emissions controls:	catalytic converter AIR 4-speed automatic	catalytic converter AIR 6-speed manual
Estimated fuel economy (mpg city / hwy / combined):	19 / 28 / 23 (manual coupe and convertible) 18 / 25 / 21 (automatic coupe and convertible)	19 / 28 / 23 (manual Z06)



TRANSMISSIONS

	Hydra-Matic 4L60-E	Tremec T56 (MM6)	Tremec T56 (M12)
Type:	4-speed automatic	6-speed manual	6-speed manual
Application:	std on coupe and convertible	opt on coupe and convertible	std on Z06
Gear ratios (:1):			
First:	3.06	2.66	2.97
Second:	1.63	1.78	2.07
Third:	1.00	1.30	1.43
Fourth:	0.70	1.00	1.00
Fifth:	—	0.74	0.84
Sixth:	—	0.50	0.56
Reverse:	2.29	2.90	3.28
Final drive ratio:	std: 2.73:1; opt: 3.15:1	3.42:1	3.42:1

CHASSIS/SUSPENSION

Front:	short/long arm (SLA) double wishbone, cast aluminum upper & lower control arms, transverse-mounted composite leaf spring, monotube shock absorber
Rear:	short/long arm (SLA) double wishbone, cast aluminum upper & lower control arms, transverse-mounted composite leaf spring, monotube shock absorber
Stabilizer bar diameter (in / mm):	
Standard:	front: .90 / 23; rear: .75 / 19.1
F55:	front: .90 / 23; rear: .75 / 19.1
Z51:	front: 1.13 / 28.6; rear: 1.13 / 23.6
FE4:	front: 1.18 / 30; rear: 1.13 / 23.6
Traction control:	electronic traction control, active handling
Steering type:	speed sensitive power-assisted rack-and-pinion
Steering ratio:	16.1:1
Steering wheel turns, lock-to-lock:	2.66
Turning circle, curb-to-curb (ft / m):	40.2 / 12.1

BRAKES

Type:	power-assisted disc with ABS, front and rear
Rotor diameter x thickness (in / mm):	front: 12.6 x 1.26 / 325 x 32; rear: 11.8 x 1 / 305 x 26
Swept area (sq in / sq cm):	front: 263 / 1696; rear: 158 / 1018

WHEELS/TIRES

	Coupe and Convertible	Z06
Wheel size and type:	cast aluminum optional: forged aluminum high polish front: 17 x 8.5; rear: 18 x 9.5	cast spun aluminum front: 17 x 9.5; rear: 18 x 10.5
Tires:	Goodyear Eagle F1 GS Extended Mobility front: P245/45ZR17 rear: P275/40ZR18	Goodyear Eagle F1 SC Asymmetric Tread front: P265/40ZR17 rear: P295/35ZR18

DIMENSIONS

	Coupe	Convertible	Z06
Exterior			
Wheelbase (in / mm):	104.5 / 2656	104.5 / 2656	104.5 / 2656
Overall length (in / mm):	179.7 / 4566	179.7 / 4566	179.7 / 4566
Overall width (in / mm):	73.6 / 1869	73.6 / 1869	73.6 / 1869
Overall height (in / mm):	47.7 / 1212	47.8 / 1215	47.7 / 1212
Track (in / mm):	front: 61.9 / 1572 rear: 62 / 1575	front: 61.9 / 1572 rear: 62 / 1575	front: 62.4 / 1585 rear: 62.6 / 1590
Curb weight (lb / kg):	3246 / 1458	3248 / 1456	3118 / 1414
Weight distribution (% front / rear):	51 / 49	51 / 49	53 / 47
Interior			
Seating capacity (front / rear):	2 / 0	2 / 0	2 / 0
Head room (in / mm):	37.9 / 963	37.9 / 963	37.8 / 960
Leg room (in / mm):	42.7 / 1085	42.7 / 1085	42.7 / 1085
Shoulder room (in / mm):	55.3 / 1405	55.3 / 1405	55.3 / 1405
Hip room (in / mm):	54.2 / 1377	54.2 / 1377	54.2 / 1377

CAPACITIES

Cargo volume (cu ft / L):	coupe: 24.8 / 702; convertible: 13.9 / 394; Z06: 13.3 / 377
Fuel tank (gal / L):	18 / 68.1
Engine oil (qt / L):	6.5 / 6.15
Cooling system (qt / L):	automatic: 11.5 / 10.9; manual: 11.8 / 11.2

Note: Information shown is current at time of publication. Please visit our GM Media web site at <http://media.gm.com> for updates.