



2004 Product Information



>>> CHEVROLET CAVALIER

NEW FOR 2004

- Rear gold bowtie appliqué replaces silver crossbar appliqué
- Exterior colors: Rally Yellow, Sunburst Orange Metallic; Yellow dropped
- Optional CD/MP3 radio
- Optional smokers package
- Optional engine block heater
- Optional Sport Appearance Package available on base model

MODEL LINEUP

	ENGINE	TRANSMISSIONS	
	Ecotec 2.2L I-4	5-spd man (M86 / M94)	4-spd auto (Hydra-Matic 4T40-E)
Base Coupe / Sedan	s	s	o
LS Coupe / Sedan	s	s	o
LS Sport Coupe / Sedan	s	s	o

Key:

Standard	s
Optional	o



2004 CAVALIER DEBUTS A FRESH NEW LOOK, NEW SAFETY FEATURES

With standard features and options that customers expect with luxury vehicles, the 2004 Cavalier continues appealing to young people who want to make a statement and appreciate its dollar-for-dollar performance.

Now with a sport appearance package available to all buyers and two new sporty exterior colors, the Cavalier is positioned as an affordable car that can be customized to fit every driver's personality.

The value equation continues with OnStar and XM Satellite Radio (continental U.S. only) – options familiar to luxury-car owners. The Ecotec 2.2L I-4 continues to deliver an economical 140 hp (100 kw) to all models.

Audiophile options

Young people like their tunes, and the 2004 Cavalier offers even more ways for buyers to indulge their tastes. New for 2004 is an optional CD/MP3 player that plays whatever music is thrown at it.

XM Satellite Radio provides 100 coast-to-coast, digital-quality channels of original music, news, sports and talk. Consumers can subscribe to the basic service for \$9.99 a month – less than the cost of a single CD. In addition, GM customers with GMAC financing can choose to include the XM subscription in their car payments.

Fresh, stylish exterior

An exterior that had ground effects, front fascia with fog lamps, rear fascia, headlamps, taillamps and hood freshened just a year ago keeps the Cavalier contemporary. The new design sports Chevy's new gold bowtie in front and now for 2004, the gold bowtie graces the rear end, too, replacing a silver bowtie.

Cavalier also offers chrome aluminum wheels, specific body-color door handles, body-color exterior mirror housings for power mirrors, leather-wrapped transmission shift knob, steering wheel and high profile rear spoiler. The sportier, more customizable appearance that results complements the rest of the Chevy car lineup.

Cavalier for 2004 also features two new colors: Rally Yellow and Sunburst Orange Metallic. Yellow is discontinued.

Safety features

Cavalier now offers a center rear three-point seat belt, and optional front driver and passenger seat-mounted torso air bags with thorax protection (side impact air bags). OnStar continues as an option for the LS and LS Sport models.

OnStar is the leading provider of in-vehicle safety, security and information services in the U.S. and Canada. Using the Global Positioning System (GPS) satellite network and wireless technology, OnStar services include automatic notification of air bag deployment, stolen vehicle location, remote door unlock, emergency services dispatch, roadside assistance, remote diagnostics, route support, convenience services and OnStar Concierge. OnStar Personal Calling allows drivers to make and receive hands-free, voice-activated phone calls through a nationwide network in cooperation with Verizon Wireless. Virtual Advisor (U.S. only) gives subscribers access to personalized information in a hands-free, voice-activated manner with no screens or displays.



Cavalier also features GM's LATCH (Lower Anchors and Tethers for CHildren) system, which can be combined with a top shelf tether to enable adults to securely install LATCH-compatible child seats without using a seatbelt. Rear child seat anchors are located in the floorpan with an attachment at the juncture of seat cushion and seat back, taking the worry and guesswork out of child safety seat installation.

Ecotec 2.2L standard

The sporty and economical Ecotec 2.2L I-4 aluminum engine is the only engine available across the Cavalier line. It is mated with a standard five-speed manual or the optional Hydra-Matic 4T40-E four-speed automatic transmission. The Ecotec engine features dual overhead camshafts with four valves per cylinder for excellent response in city driving and confident passing and merging on the highway.

Quiet operation is one of the engine's chief features. Twin balance shafts located in the cylinder block cancel the shaking forces inherent in an inline four-cylinder engine, resulting in an engine that is smooth from idle to maximum engine speed. The Ecotec 2.2L generates 140 hp (100 kw) at 5600 rpm. Other features that help make the twin cam smooth and quiet include a die-cast lower crankcase and a structural cast-aluminum oil pan, which stiffen the block and reduce radiated engine noise. The engine also features an isolated cam cover that reduces the transmission of valvetrain noise.



FE2 sport suspension

The FE2 sport suspension system offers excellent handling and road feel for both LS models. The sport suspension provides flatter, more precise cornering, more driver feedback, and better communication between car and driver. Front and rear sway bars stiffen the ride. The suspension system is mated to performance tires for better control and a five-speed manual transmission is standard. The stainless steel exhaust system, with a polished chrome exhaust outlet, offers high corrosion resistance – and good looks.

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Contact:

Carolyn Normandin
Chevrolet Communications
Phone: 313-667-4079
Fax: 313-667-4007
Email: carolyn.normandin@gm.com

GM of Canada Communications
Phil Kling
Phone: 905-644-1804
Fax: 905-644-3873
E-mail: phil.kling@gm.com

GM de Mexico Communications
Juan Bernardo Urrutia
Phone: 011(5255) 5901-3046
E-mail:
juanbernardo.urrutia@gm.com

SPECIFICATIONS

OVERVIEW

Models:	Cavalier, Cavalier LS, Cavalier LS Sport
Body style / driveline:	5-passenger coupe and sedan, unitized frame, front engine, front-wheel drive, 5 passengers
Construction:	steel body material
EPA vehicle class:	compact car
Manufacturing location:	Lordstown, Ohio
Key competitors:	Ford Focus, Honda Civic, Dodge Neon

ENGINE

	Ecotec 2.2L I-4 (L61)
Type:	2.2L DOHC I-4
Displacement (cu in / cc):	134 / 2189
Bore & stroke (in / mm):	3.38 x 3.72 / 86 x 94.60
Block material:	aluminum
Cylinder head material:	cast aluminum
Valvetrain:	DOHC, 4 valves per cylinder
Fuel delivery:	sequential fuel injection
Compression ratio:	10.0:1
Horsepower (hp / kw @ rpm):	140 / 100 @ 5600
Torque (lb-ft / Nm @ rpm):	150 / 203 @ 4000
Recommended fuel:	87 octane
Maximum engine speed (rpm):	6500
Estimated fuel economy (mpg city / hwy / combined):	automatic: 24 / 32 / 28 manual 25 / 33 / 29

TRANSMISSIONS

	M86 / M94	Hydra-Matic 4T40-E
Type:	5-speed manual, front-wheel drive	4-speed automatic with overdrive, front-wheel drive
Gear ratios (:1):		
First:	3.58	2.96
Second:	2.02	1.62
Third:	1.35	1.00
Fourth:	0.98	0.68
Fifth:	0.69	—
Reverse:	3.31	2.14
Final drive ratio:	3.94:1	3.63:1

CHASSIS/SUSPENSION

Front:	MacPherson strut suspension with coil spring with 19-mm stabilizer bar Level II Sport Suspension LS Sport models includes shaped inner-metal bushings on front lower control arms, high-rate front and rear springs, and 24-mm stabilizer bar
Rear:	training tubular control arms with twist-beam axle, coil-over-shock, 19-mm solid stabilizer bar for LS Sport models
Steering type:	power rack-and-pinion
Steering ratio:	coupe or sedan: 14.7:1; LS Sport models: 15.7:1
Steering wheel turns, lock-to-lock:	coupe or sedan: 2.6; LS Sport models: 2.8
Turning circle, curb-to-curb (ft / m):	35.6 / 10.9

BRAKES

Type:	power-assisted front and rear disc, 4-wheel ABS optional
Rotor diameter x thickness (in / mm):	front: 10.2 x .79 / 260 x 20; rear: 9.06 x 1.57 / 230 x 40
Total swept area (sq in / sq cm):	front: 182.2 / 1176; rear: 86.2 / 556

WHEELS/TIRES

Wheel size and type:	14-inch x 6-inch full wheel cover (standard on coupe and sedan) 15-inch x 6-inch full wheel cover (standard on LS coupe and sedan) 15-inch x 6-inch aluminum wheel (optional on LS coupe and sedan) 16-inch x 6-inch chrome finish aluminum wheels (standard on LS Sport models)
Tires:	P195/70R14 all-season (standard on coupe and sedan) P195/65R15 all-season touring (standard on LS coupe and sedan) P205/55R16 performance (standard on LS Sport models)

DIMENSIONS

Exterior	Coupe	Sedan
Wheelbase (in / mm):	104.1 / 2644	104.1 / 2644
Overall length (in / mm):	182.7 / 4640	182.7 / 4640
Overall width (in / mm):	68.7 / 1745	67.9 / 1724
Overall height (in / mm):	53 / 1346	54.7 / 1389
Track (in / mm):	front: 57.6 / 1463; rear: 56.4 / 1432	front: 57.6 / 1463; rear: 56.7 / 1440
Curb weight (lb / kg):	2617 / 1188	2676 / 1214

DIMENSIONS (Cont.)

Interior	Coupe	Sedan
Seating capacity (front / rear):	2 / 3	2 / 3
Head room (in / mm):	front: 37.6 / 956; rear: 36.6 / 929	front: 38.9 / 976; rear: 37.2 / 940
Leg room (in / mm):	front: 41.9 / 1066; rear: 32.7 / 831	front: 41.9 / 1066; rear: 34.4 / 872
Shoulder room (in / mm):	front: 53.9 / 1364; rear: 54.9 / 1394	front: 54.6 / 1388; rear: 53.9 / 1370
Hip room (in / mm):	front: 50 / 1280; rear: 49.5 / 1260	front: 50.8 / 1298; rear: 50.6 / 1278

CAPACITIES

EPA interior volume (cu ft / L):	100 / 2840	105 / 2973
Cargo volume (cu ft / L):	13.2 / 375	13.6 / 386
Trailer towing maximum (lb / kg):	1000 / 454	1000 / 454
Fuel tank (gal / L):	14.1 / 53.4	14.1 / 53.4
Engine oil (qt / L):	4 / 3.8	4 / 3.8
Cooling system (qt / L):	9.6 / 9.1	10 / 9.4

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