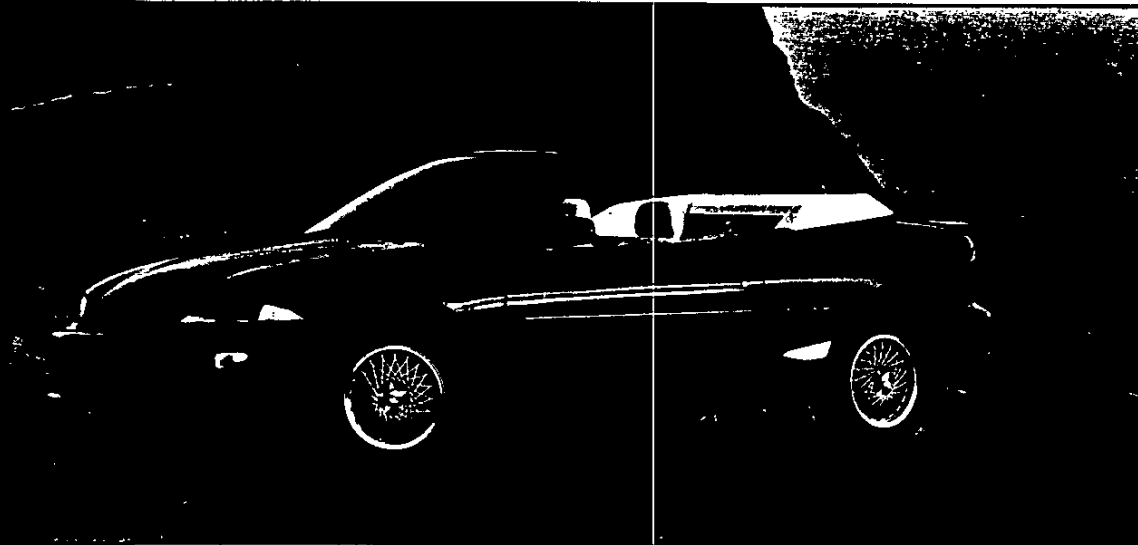


1998 Cavalier

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*1998 cavalier*



CHEVROLET

For Release: September 1, 1997

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11718-6/97

## 1998 CAVALIER — LUXURY FEATURES AT AN EASY-TO-OWN PRICE

**WARREN, Mich.** — The 1998 Chevy Cavalier offers so many standard features, its content list could easily be mistaken for that of a \$30,000 luxury automobile ... at less than half the price.

In fact, last year, no other car in the Cavalier price class offered features like a Passlock® theft-deterrent system, 4-wheel anti-lock brakes, Daytime Running Lamps, theatre lighting or Scotchgard™ Protector on seats and door trim ... all standard.

And, for 1998, the Cavalier lineup gets even stronger, with a new Z24 Convertible that replaces the LS Convertible. It boasts standard features such as a 2.4-Liter L4 SFI Twin Cam engine with 150 horsepower, Remote Keyless Entry, power door locks and 15-inch cross-lace design aluminum wheels. There are also innovative options, like speed-compensated volume on the AM/FM stereo with cassette player, plus electronic traction control that helps increase tire grip on slippery surfaces. This system is included with the optional 4-speed automatic transmission, available on all models, and also is available on Cavalier RS and Z24 Coupe and is standard on LS models.

There's news throughout the Cavalier lineup for 1998. On the outside, Medium Gold Metallic replaces Sandrift Metallic in the paint palette. And, sporty style is enhanced for the LS Sedan with an available rear spoiler, already standard on RS Coupe, Z24 Coupe and Z24 Convertible.

Inside, there is a redesigned manual transmission shifter that gives a sturdier feel, along with a new front-passenger safety belt adjuster, which provides greater comfort and convenience in the new Z24 Convertible. The interiors of LS Sedan and Z24 models also receive a fresh look with a new seat sew pattern. In addition, base-level Cavalier gets an electric odometer/trip odometer, already standard on other Cavalier models.

Under the hood, the 2200 L4 SFI engine has been fine-tuned, with revisions to the pistons and composite intake manifold that contribute to quieter engine performance.

— MORE —

11718-6/97

Chevrolet positions Cavalier as the “easy-to-own smart buy” ... proven by its many thoughtful features that help reduce typical ownership worries, such as battery-rundown protection, platinum-tip spark plugs that allow for the first tune-up at 100,000 miles\*, extended-life coolant with a change interval of 5 years or 150,000 miles\* (whichever comes first) and two-side-galvanized steel throughout the body (except the roof) to help fight corrosion.

“The reputation of Cavalier has built a strong base of satisfied owners, and the word is spreading,” said Steve Wagg, Cavalier Brand Manager. “In fact, Cavalier was the best-selling car in America in early 1997 and is currently tracking 45 percent ahead of the 1996 sales pace.”

Cavalier also has received positive reviews from several consumer groups and publications. For example, the 1997 edition of *The Car Book* (which compares warranties, customer complaints, price, crash-test results and fuel economy of several small cars) rated Cavalier above both Dodge Neon and Honda Civic. *Money Magazine*, in its March 1997 issue, called Cavalier LS a “best buy.” The American Automobile Association (AAA) named Cavalier the top car in its under-\$12,500 price class.

“The recognition is great,” Wagg said, “but we’re also very pleased that a wide variety of small car intenders ... such as first-time buyers, females and younger families ... recognize the value of Cavalier and are becoming owners.”

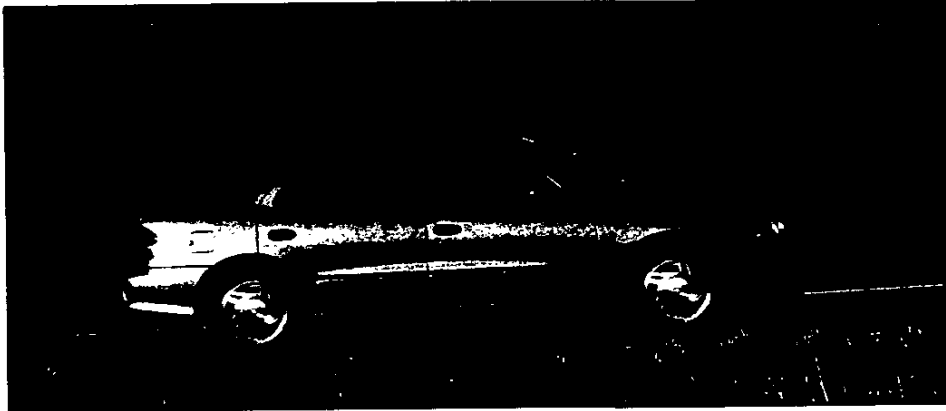
“It’s our intention to build on this owner base and reinforce the Chevrolet traditional commitment to excellence by sponsoring activities these buyers support and prefer,” Wagg continued. “That’s why we recently entered into three-year agreements with both the U.S. Soccer Federation and the U.S. Figure Skating Association. The athletes in these sports exemplify America’s competitive spirit and excellence in execution. Those are two qualities we believe line up great with the Cavalier image.”

Easy-to-own, small car value ... combined with unexpected luxury features. That’s the story behind Chevrolet Cavalier for 1998.

\*Maintenance needs vary with different uses and driving conditions. See owner’s manual for details.

###

## 1998 Cavalier



Cavalier 4-Door Sedan



Cavalier 2-Door Coupe

### WHAT CAVALIER IS ...

In the highly competitive small car market, Cavalier remains a bestseller. With over 277,000 sold in 1996, it is General Motors' best-selling passenger car nameplate.

Cavalier success is due to several factors, including contemporary style and a standard feature list filled with equipment that's often optional on more expensive vehicles.

PassLock theft-deterrent system, Daytime Running Lamps, theatre lighting and 24-Hour Roadside Assistance are just a few features that add up to a smart buy.

And, the list goes on. Anti-lock brakes, for example, are standard on Cavalier. And, electronic traction control — a rare feature on any small car — is included with the available 4-speed automatic transmission.

Available in 2-door, 4-door and convertible models, Cavalier seats up to 5 occupants and comes equipped with a 2200 four-cylinder SFI

engine that produces 115 horsepower and 135 lb.-ft. of torque. For those who want more performance, Cavalier also offers a 2.4 Liter Twin Cam SFI engine — optional on LS Sedan and standard on Z24 models — which cranks out 150 horsepower and 155 lb.-ft. of torque.

Power, good fuel economy (up to 25 city/37 highway in 1997) and a long list of expensive car features for a not-so-expensive price may be why Cavalier continues to receive recognition for offering tremendous dependability and value.

*Consumers Digest* named the 1997 Cavalier a "Best Buy" and AAA's *Autograph Book* recently presented Cavalier with the AAA Top Car award in the under-\$12,500 price class.

In the pursuit of excellence and family-oriented activities, Cavalier has teamed up with the U.S. Soccer Federation and the U.S. Figure Skating Association for a long-term sponsorship agreement. (See page 8 for more Cavalier affinity information.)

### Cavalier Models

- Coupe/Sedan
- RS Rally Sport Coupe
- LS Sedan
- Z24 Coupe
- Z24 Convertible.



### What's New For 1998:

- 2200 (LN2) engine enhancements (page 8)
- Z24 Convertible model replaces LS Convertible (page 2)
- Medium Gold Metallic is the new exterior color (page 7)
- Optional spoiler for LS Sedan (page 7)
- Revised sew pattern for uplevel fabric (LS Sedan/Z24 Coupe) (page 6)
- Electric odometer/trip odometer cluster (page 5)
- Front-passenger safety belt adjuster for Z24 Convertible (page 6).

### Primary Competitors

Cavalier Coupe and Sedan primary competitors in the small car segment are:

- Ford Escort
- Plymouth/Dodge Neon
- Honda Civic

Competitors for Cavalier Z24 Coupe include:

- Ford Escort GT
- Dodge Neon Sport Coupe.



## 1998 Cavalier

### As Easy As Pie

OK, say a Cavalier owner has to pick up dry cleaning, take the dog to the vet, stop by the bakery and get the VCR fixed. With so many demands on time and budgets, owners will appreciate that Cavalier, like a reliable friend, demands little, but offers a lot.

Here are some reasons why Cavalier is easy to own:

- Battery-rundown protection
- Stainless-steel exhaust system
- 5-mph bumpers
- PassLock theft-deterrent system
- Scotchgard™ Protector on seats and door trim
- Ability to travel up to 100,000 miles before the first scheduled tune-up\*
- Serpentine drive belt, designed to never need tensioning
- Extended-life coolant that doesn't need to be changed for up to 5 years or 150,000 miles\*
- Automatic transmission fluid changes are not necessary under normal conditions
- Galvanized steel is used for corrosion protection on all panels (except roof) — warranted against rust-through for 6 years/100,000 miles, whichever comes first
- Genuine Customer Care — Bumper to Bumper 3-year/36,000-mile limited warranty, 24-Hour Roadside Assistance and Courtesy Transportation.

\*Maintenance needs vary with different uses and driving conditions.

### MODELS AND TRIM LEVELS

#### Cavalier Coupe/Sedan

The Cavalier Coupe and Sedan offer a long list of standard features that make them good values, such as:

- 2200 L4 SFI engine
- 5-speed manual transmission
- 4-wheel anti-lock brake system (ABS)
- Stainless-steel exhaust
- Power rack-and-pinion steering
- Side-window defoggers
- Battery-rundown protection
- Daytime Running Lamps
- P195/70R-14 tires
- Rear-seat child comfort guides
- Driver and front-passenger air bags
- PassLock theft-deterrent system
- Breakaway mirrors
- Cup holders
- Trip odometer
- Scotchgard™ Protector
- Electronically tuned AM/FM stereo.

#### Cavalier Rally Sport Coupe

Cavalier Rally Sport Coupe offers the same standard features as Cavalier Coupe, plus the following:

- Cruise control
- Dual, covered visor vanity mirrors with map straps
- Front mud guards
- Tachometer
- Variable-speed intermittent wipers
- P195/65R-15 tires
- Body-color front and rear fascias
- Color-keyed body-side moldings
- Rear decklid spoiler
- 15-inch bolt-on full wheel covers
- Easy-entry passenger seat
- Tilt-Wheel™ Adjustable Steering Column
- Remote trunk release
- Variable-speed intermittent wipers
- Floor mats
- Trunk net
- Embroidered "Rally Sport" head restraints
- "Rally Sport" decal on rear quarter panels.

#### Cavalier LS Sedan

Cavalier LS Sedan offers the same standard features as Cavalier Sedan, plus the following:

- Air conditioning
- Luggage-area convenience net
- Dual-headliner-mounted reading lamps
- Electronically tuned AM/FM stereo with cassette player
- Remote trunk release
- P195/65R-15 tires
- Electronically controlled 4-speed automatic transmission with electronic traction control
- Floor mats
- Dual, covered visor vanity mirrors with map straps
- Tachometer
- Body-color front and rear fascias
- Color-keyed body-side moldings
- Front mud guards
- 15-inch bolt-on full wheel covers
- Variable-speed intermittent wipers.

#### Cavalier Z24 Coupe

Cavalier Z24 Coupe offers all the standard features of Cavalier Coupe, plus:

- 2.4 Liter Twin Cam L4 SFI engine
- Air conditioning
- Luggage-area convenience net
- AM/FM stereo with cassette player
- Tachometer
- Dual, headliner-mounted reading lamps
- Cruise control
- Tilt-Wheel™ Adjustable Steering Column
- P205/55R-16 blackwall Touring tires
- Floor mats
- Dual, covered visor vanity mirrors with map straps
- Easy-entry passenger seat
- Red bowtie badging on hood and trunk
- Z24 body-color front and rear fascias
- Foglamps
- Z24 color-keyed body-side moldings
- Rear decklid spoiler
- 16-inch cast-aluminum wheels
- Remote Keyless Entry
- Power windows
- Power outside rearview mirrors.



## MODELS AND TRIM LEVELS (contd.)

### Cavalier Z24 Convertible

Z24 Convertible offers the same standard features as Z24 Coupe, plus the following:

- Rearview mirror-mounted dual reading lamps
- Power convertible top with single-latch "logic stick" lever
- Electric rear-window defogger
- P195/65R-15 B/L tires
- 15" cross-lace design aluminum wheels.

## THE CHEVROLET SEDAN FAMILY

Every Chevrolet sedan is a quality-built car owners can depend on to be a trusted member of their family — year in, year out.

GM has long been a leader in powertrain performance and Chevy sedans benefit from this technology, along with a comprehensive safety package designed to add peace of mind to every mile consumers drive.

Besides offering outstanding value at an affordable price, Chevrolet sedans offer unique low-maintenance features that make them easier to care for than many other cars.

And, of course, all Chevrolet sedans are covered by a comprehensive owner protection program that includes a no-deductible, 3-year/36,000-mile limited warranty and 24-Hour Roadside Assistance.

Chevrolet offers five distinctly styled sedans to meet the needs of any age group, lifestyle and budget.

**Lumina** — The well equipped, affordable Chevrolet sedan for those who want 6-passenger roominess, comfort and less to worry about.

**Malibu** — 5-passenger centerpiece of the family, designed to appeal to current midsize sedan owners, as well as to those who drive midsize imports.

**Prizm** — The upscale 5-passenger sedan for those who want solid dependability and upscale options, or who are predisposed to import vehicles.

**Cavalier** — The lower-priced, 5-passenger Chevy sedan for younger, value-conscious buyers.

**Metro** — The low MSRP, high MPG, 4-passenger economy sedan for young, first-time buyers seeking low-cost transportation and new-car peace of mind.

This selection of sedans allows Chevrolet to carry buyers through all phases of their lives.

## SAFETY

With a long history of setting automotive safety milestones, GM is a world leader in safety research, development and testing. The 1998 Cavalier exemplifies that dedication. And, with a comprehensive system, emphasizing crash avoidance and occupant protection, Cavalier owners not only get an "easy-to-own, smart buy," but additional peace of mind, as well.

### Crash Avoidance Features

- **Standard Daytime Running Lamps (DRL)** turn on automatically when the ignition is on to increase Cavalier visibility to other drivers. DRL run the headlamps at a lower intensity than normal. When the vehicle's headlamp switch is turned on, the headlamps revert to full power and the other exterior lamps are illuminated.

## Key Advantages\* Over Ford Escort and Dodge/Plymouth Neon

- Standard 4-wheel ABS; extra cost on Escort and Neon
- Standard PassLock theft-deterrent system; not available on Escort or Neon
- Standard Daytime Running Lamps; not available on Escort or Neon
- Standard Scotchgard™ Protector, not available on Escort or Neon
- 5-year/150,000-mile engine coolant; not available on Escort or Neon
- 6.0 cu. ft. more interior space than Escort Sedan†
- 4.0 cu. ft. more interior space than Neon.†

\*Based on 1997 comparisons.

†Based on 1997 EPA figures.



Chevrolet sedan family vehicles shown: Malibu, Cavalier and Lumina.



## Almost Enough Room For The Kitchen Sink

Let's face it. A glove box is a glove box, right? When it comes to Chevy Cavalier, think again. Chevy engineers made sure they thought of everything when they designed the Cavalier interior — even the “little” things, which, it turns out, aren't always so little.

The Cavalier glove box has a whopping 4.9 liters of usable space. That means it can hold a lot more than gloves. How about a 6 pack of soda? Don't believe us? Try it. In any case, it's just a feature of thoughtful engineering and a “little” something that helps put the “smart” in “smart buy.”

## Cavalier Lighting Doesn't Leave Drivers In The Dark

As the lights dim, you'll have plenty of time to buckle up, fish your keys from your briefcase or check yourself in the mirror. Cavalier offers theatre lighting — an elegant feature typically found in more expensive cars and *definitely* not found in many cars in its price class. Theatre lighting provides a gradual dimming of the car's interior lighting so you'll have plenty of time to get settled and under way.

## SAFETY (contd.)

- **4-Wheel Anti-Lock Brake Systems (ABS)**, automatically adjusts brake pressure to the front and rear wheels during hard-braking situations, minimizing wheel lock-up and helping the driver to maintain steering control.
- **Starter Interlock Switch**, on Cavalier models equipped with manual transmissions, requires drivers to depress the clutch pedal to start the ignition.
- **Brake/Transmission Shift Interlock**, standard on Cavalier models equipped with an automatic transmission, requires drivers to depress the brake pedal to shift out of Park.
- **Electronic Traction Control** (with available 4-speed automatic transmission only) automatically activates if either drive wheel should spin on slick surfaces. A sensor detects the spinning and retards engine spark, slowing and stabilizing the vehicle to improve traction.

## Occupant Protection Features

- **Driver and front-passenger air bags** are designed to supplement safety belts, helping to protect occupants in the event of certain moderate to severe frontal impacts. Always wear safety belts, even with air bags.
- **Child Security Rear-Door Locks (sedan only)**, when engaged, prohibit the rear doors from being opened from the inside (sedan only).
- **Adjustable upper safety belt anchors (sedan only)** help the driver and right-front passenger adjust safety belts for individual comfort.
- **Automatic Door Locks (on models equipped with optional Remote Keyless Entry system)** give their owners added convenience and safety
- **Child Comfort Guides (rear outboard shoulder belts only)** gently pull the shoulder belt outward, away from the neck, so it correctly routes across the child's chest.

- **Safety Belt Cinch Capability For Child Seats** which allows the proper use of a child restraint system.
- **Power Window Lockout** lets the driver disable the rear passenger power window switches.

## Theft-Deterrent Features

- **PassLock theft-deterrent system** disables the ignition system if an attempt is made to start the car without a proper key.
- **TheftLock security Feature for Cassette and Compact Disc Players** renders stereo inoperable if removed from vehicle by unauthorized persons.
- **Laser Etched VIN Plate** makes it virtually impossible for thieves to change the numbers without the tampering effort being obvious.
- **Remote Hood Release** allows access to engine compartment from only inside the vehicle.

## CAVALIER INTERIOR FEATURES

Cavalier provides owners with many standard interior features not typically found on vehicles in its price class. It offers five-passenger seating and up to 13.6 cubic feet of luggage capacity, depending on the model. Ergonomically designed, Cavalier has a low cowl height, providing drivers with a confident view of the road. In addition, small roof pillars and a large area windshield provide ample visibility.

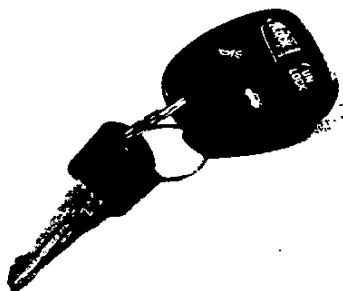
### Other Interior Features

- A **microprocessor-based electro-mechanical instrument cluster design** links communication between the vehicle's electronic modules (powertrain, air bag and ABS) to provide up-to-the minute system information to the driver.
- A **single reversible key** starts the car and operates locking functions on all doors and the trunk.
- **Remote Decklid Release** allows access to the trunk from inside the vehicle.
- **Battery-Rundown Protection** When any





interior lamp is left on or door left open (with ignition turned off), the system automatically shuts the lamp off after 20 minutes.



- **Remote Keyless Entry system** (optional on all models except sedan) allows driver to lock or unlock doors, turn on interior lights and unlock the trunk from up to 30 feet away.
- **Scotchgard™ Protector** helps protect optional cloth seating surfaces and door panel trim from stains and aids in easy cleanups.
- **Air conditioning** uses CFC-free refrigerant, which does not contribute to ozone depletion. Also, on vehicles equipped with air conditioning, the compressor is automatically activated to prevent window "flash fogging" when the defrost mode is selected.
- Optional "zoned" rear-window defogger clears the critical center area first.
- **Integrated rear-seat air ducts** for heater, ventilation and air conditioning systems, maximize rear-passenger comfort.
- **Center console** houses a side-mounted parking brake, 2 cup holders, driver or passenger armrest and storage area for tapes, papers, etc.
- Standard **fixed-interval intermittent wipers** allow the driver to match wiper speed with weather conditions for optimum visibility.
- **Tilt-Wheel™ Adjustable Steering Column**, standard on Z24, RS and LS models and optional on Cavalier Sedan, tailors the wheel to the most comfortable, individualized steering position.

- **Light-Emitting Diodes (LED)** are used instead of lightbulbs for all indicators (except turn signals) and high beams to last the lifetime of the vehicle.
- Optional **power sunroof**, available on coupe models, opens and closes easily and includes a sunshade to protect the vehicle's interior from sun fading.
- Optional **luggage-area convenience net** helps secure groceries and other cargo from sliding around.
- **Covered visor vanity mirrors** with map straps hold important papers or maps in place and within reach.
- **Jack stowage tray** is lined with foam to help eliminate rattles. The tray also comes in handy when changing a tire by doubling as a convenient tool holder.
- **Full trunk carpeting** is standard on every Cavalier model.



### Electric Odometer and Trip Odometer

*Now Standard In Cavalier Coupe And Sedan.*

- Already standard on other Cavalier models, the trip odometer gives drivers precise mileage readings between any two destinations up to 1,000 miles.

### Audio Systems

While it's impossible to forecast everyone's musical tastes, Cavalier offers a sound system with the technology and features designed to complement all varieties of music, from jazz to country and in-between. Uplevel cassette and compact disc player systems feature speed-compensated volume, which automatically adjusts the volume of the audio to the vehicle's speed, compensating for road noise; as well as automatic tone control, which sets equalizer levels with one touch for talk and various music programs.

### Air Bag Safety — Buckle Up Everyone. Children In Back!

There's been a lot of discussion regarding air bag safety. To help passenger car owners with air bag safety, Chevrolet developed these guidelines:

- **Infants in rear-facing child safety seats** should never ride in the front seat of a vehicle with an activated passenger air bag
- **Small children** should ride in a child safety seat meeting federal requirements for their age and size, which should be located and properly secured in the center of the vehicle's rear seat
- **Review the vehicle's owner's manual** and the instructions provided with the child safety seat for correct use information
- **Children 12 and under** should ride buckled up in a rear seat
- **Everyone** should buckle up with both lap and shoulder belts on every trip
- **Driver and front-passenger seats** should be moved as far back as practical
- **Never place an object** in the air bag deployment zone.



## 1998 Cavalier

### Music To Your Ears

Cavalier owners will be glad to hear uplevel cassette or CD players available for Cavalier are fully compatible with add-ons like 6- and 12-disc compact disc players.

### The Key to PassLock

Wouldn't it be nice if your car had its own guardian angel, to keep it secure when you're not around? Well, Cavalier owners get the next best thing — the security of the PassLock theft-deterrent system, standard on all models.

With PassLock, if anyone attempts to start the vehicle without the valid key, the vehicle will initially run, but immediately shut down and remain disabled for about ten minutes. This is accomplished by a sensor that is individually matched to the car's ignition module before it leaves the factory. This eliminates the need for a special resistor-equipped ignition key.

So, while PassLock doesn't have wings like most guardian angels, we're pretty confident that it can fly in the face of crime.

### INTERIOR (contd.)

#### Available Systems On Cavalier:

- Electronically tuned AM/FM stereo with seek-scan, digital clock and extended-range front and rear speakers is standard on coupe/sedan models.
- Electronically tuned AM/FM stereo with cassette player, seek-scan, digital clock and extended-range front and rear speakers is standard on LS Sedan and Z24 models and is available on all other models.
- Electronically tuned AM/FM stereo with cassette player, TheftLock security feature\*, speed-compensated volume, automatic tone control, seek-scan and digital clock is optional on all models. Includes premium coaxial front speakers and extended-range rear speakers.
- Electronically tuned AM/FM stereo with compact disc player, TheftLock security feature\*, speed-compensated volume, automatic tone control and digital clock is optional on all models. Includes premium coaxial front speakers and extended-range rear speakers.

\*Renders stereo inoperable if removed from vehicle by unauthorized persons.

### Seats

#### Adjustable Safety Belt Guide Loops

- These easily adjustable safety belt guide loops (on coupes) make using safety belts more comfortable, no matter how tall or short you are.

All Cavalier seating provides manual four-way seat adjusters and adjustable head restraints for optimum comfort.



#### Sedan, Coupe, RS Coupe

- Standard cloth with vinyl reclining front bucket seats with adjustable head restraints. Rally Sport embroidery is standard on cloth front head restraints for RS models.



#### LS Sedan, Z24 Coupe, Z24 Convertible

- Standard Sport Cloth with new sew pattern and reclining front bucket seats with adjustable head restraints.



#### Z24 Convertible

- Optional Vinyl reclining front bucket seats (Arctic White only) with lumbar adjustment.

#### Additional Seating Features:

- Storage net on passenger seatbacks in LS and Z24 models provide additional storage for books, magazines, etc.



## INTERIOR (contd.)



### Revised Seat Sew Pattern (LS Sedan and Z24 Coupe)

- Provides an upscale appearance.
- **Easy-entry passenger-seat adjuster** simplifies rear-passenger entry and exit. It comes standard on Z24 models and RS Coupe models and is available on Cavalier Coupe models.
- **Standard fold-down rear seat** with trunk pass-through gives cargo-carrying flexibility to all Cavalier models. This feature allows long or bulky objects, like skis, to be stored with the decklid closed.

## Interior Colors

- Graphite
- Neutral\*
- Medium Gray\*
- Arctic White (Convertible only).

\*Includes new monotone color scheme for 1998.

## CAVALIER EXTERIOR FEATURES

### Exterior Paint

Standard basecoat/clearcoat paint on Cavalier resists fading and provides a high-gloss shine for long-lasting exterior beauty for all colors, solid and metallic. The clearcoat system is formulated to minimize the effects of acid rain and other environmental damage. The paint process builds up six layers of protection on every new Cavalier.

- A **total immersion phosphate electro-deposition (ELPO)** process applies the first layer of primer/paint. Electric voltage is applied to the bodies while submerged in the paint bath to ensure complete coverage, even in hard-to-reach areas.
- A **glossy, water-based highlighting solution** is applied to all exterior surfaces to reveal any imperfections before the body is painted.



## Exterior Colors

### Paint Color For '98:

- Medium Gold Metallic.

### Other Colors:

- Aquamarine Blue Metallic
- Medium Opal Blue Metallic
- Deep Purple Metallic
- Bright Aqua Metallic
- Green Metallic
- Bright Red
- Bright White
- Cayenne Red Metallic
- Black.

### Other Exterior Features



### Optional Rear Spoiler For LS Sedan

- Provides a sportier appearance for this vehicle.

## DESIGN AND MANUFACTURING

Cavalier models are manufactured at General Motors assembly plants in Lordstown, Ohio; Lansing, Mich. and Ramos Arizpe, Mexico.

The system in place for Cavalier ensures that customers get the quality they expect and deserve. The fundamental concept is to detect and prevent problems throughout the manufacturing process. Process controls and monitoring stations are the keys. For example, a "form-and-pierce" technique of installing exterior sheet metal is used for assembly to ensure precise fit and uniform body seams through customized mounting positions.

- Holes for some trim items are cut with laser beams on an "online" automotive laser system.
- The laser-cutting is a non-contact system, so metal distortion is virtually eliminated, improving quality in fit and finish.
- Detailed computer analysis results in very smooth, predictable structural responses.

## To Top It Off

If a buyer wants open-air fun in a smaller car, what choice is there besides Cavalier Z24 Convertible? Chrysler Sebring Convertible IX? Cavalier Z24 is competitively priced and offers more.\*

- **Z24 Convertible** has ABS as standard equipment. ABS is optional on Sebring Convertible.
- **Z24 Convertible** boasts traction control as standard. Sebring doesn't even offer traction control.
- **Z24 Convertible** has battery-rundown protection. Sebring Convertible does not.
- **Z24 Convertible** has Remote Keyless Entry as standard. Sebring offers this feature as an option.
- **Z24 Convertible** has theatre lighting as standard, an optional feature on Sebring Convertible.

\*Based on 1997 competitive vehicle information.

## OK, We Give. What's An Ionomer Bumper?

Ever seen a car's bumper scraped, with an ugly discoloration as a result? Well, that can't happen with a 1998 White Cavalier Coupe or Sedan with an Exterior Appearance Package. Chevrolet has introduced ionomer bumper material extending the White coloring throughout the full depth of the bumper itself. If the owner catches a scrape in the parking lot, you will still see White.



## 1998 Cavalier

### The Little Engine That Can

The improved 2200 L4 engine. Quieter for 1998, the improved 2200 L4 achieves an excellent balance of economical and impressive 4-cylinder performance appealing to the value conscious customer (see improvements listing, right). For delivering impressive 4-cylinder performance, the 2200 L4 is definitely the little engine that can.

### Chevrolet — A Resource For America's Athletes

Chevrolet is the official vehicle of both the U.S. Soccer Federation and the U.S. Figure Skating Association through 1999. Chevrolet is dedicated to being a resource to America's athletes.

### BODY STRUCTURE

The Cavalier body structure provides a stiff, rigid platform.

- The Cavalier structural feel was patterned after much more expensive cars, designed to handle front-to-rear bending and torsional twisting that contributes to good ride and handling.
- The stiff body structure allows suspension components to be tuned for isolation from road disturbances.
- Corrosion protection has been incorporated throughout the vehicle. All exterior panels (except sedan roofs) utilize two-side-galvanized steel.



### '98 Cavalier Z24 Convertible

- The Cavalier Z24 Convertible structure is manufactured at the Lansing body shop and then shipped to Genasys, a joint-venture company formed by General Motors and ASC Inc., for final assembly. Cavalier Convertible is designed, engineered and built as a "true convertible" from the ground up. Its stiff body structure results in a smooth, solid road feel.
- Specific rocker panels and front and rear reinforcements are welded prior to paint application so all body components receive full corrosion and paint protection.
- A single center latch simplifies operating the power convertible top with one easy-to-use "logic stick" lever.
- The snug-fitting convertible top has a full headliner for a finished appearance and is designed to reduce road and wind noise.
- A glass rear window with standard defogger provides good visibility and will not fade or yellow.
- An easy-to-install three-piece boot cover gives Cavalier Convertible a sleek, finished look when the top is lowered.
- The rear seat accommodates three passengers.

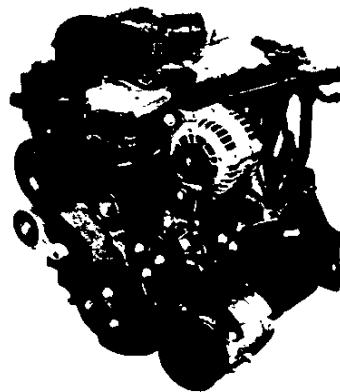


### New Z24 Convertible

#### Exterior Features:

- 15" cross-lace design aluminum wheels
- Z24 front and rear fascias
- Foglamps
- Z24 body-side moldings.

### ENGINES



### 2200 L4 SFI Engine (LN2)

The enhanced 2200 SFI in-line four-cylinder engine is standard on Cavalier Coupe and Sedan, RS Coupe and LS Sedan. This engine was systematically designed to minimize friction between vital components, maximize fuel economy and enhance performance. Quick starts and reduced noise and vibration are additional benefits of the 2200 engine design. OBD II (On-Board Diagnostics Second Generation) is standard.

Enhancements for 1998 make possible reduced engine noise and more low-end torque. The features behind these improvements include:



- Torque has been increased from 130 lb.-ft. @ 4000 rpm to 135 lb.-ft. @ 3600 rpm for impressive off-line acceleration.

The higher torque with lower rpm will also improve freeway ramp merging capability



- Cylinder head improvements include cast combustion chambers and new intake and exhaust ports for better performance and reduced emissions



**ENGINES (contd.)**



- **Valvetrain roller rocker arms** reduce friction and help make possible better fuel economy. They act as roller bearings to lessen friction between the push rods and the contacting surfaces of the rocker arms



- The **induction system** features two resonators and a large volume air cleaner for quieter operation



- **Camshaft revisions** provide improved mid-range torque when combined with the new head and intake manifold



- **Piston bowl** has been revised to pair with the new cylinder head. This revision also helps reduce noise



- A **new coolant system flow arrangement** enhances cooling throughout the engine



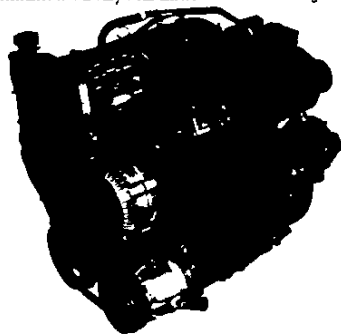
- A **new tensioner** mounted off the front cover makes possible improved quality, reliability and dependability for the accessory drive system.

**Other 2200 Engine Features:**

- **Torque axis powertrain mount system** enhances smoothness by controlling vibration at idle. The Cavalier powertrain is mounted according to its most natural axis rather than the most convenient location. As a result, the engine's suspension system doesn't "fight" the body structure
- **Hydraulic roller lifters** help reduce valvetrain friction, maintenance cost and engine noise
- **Exhaust Gas Recirculation (EGR) system** is designed to reduce emissions, improve idle stability and enhance fuel economy
- The LN2's "assembled" steel camshaft is made up of individual lobes and journals that are permanently locked onto a tube for outstanding durability

- **Platinum-tip spark plugs** (first scheduled maintenance at 100,000 miles\*) provide dependable service
- **Extended-life coolant** (first scheduled replacement at 5 years or 150,000 miles\*) helps make maintenance easy
- **Sequential Fuel Injection** aids combustion efficiency by optimizing fuel distribution
- **Cast-aluminum cylinder heads** help maintain even engine temperatures and minimize weight. Aluminum was chosen since it conducts heat better and weighs less.

\*Maintenance needs vary with different uses and driving conditions.



**2.4 Liter Twin Cam L4 Engine (LD9)**

A 2.4 Liter Twin Cam engine is standard on Z24 Coupe and Z24 Convertible and is optional on LS Sedan. The Twin Cam's multi-valve design provides outstanding balance throughout the operating range. Noise and vibration are minimized by mounting the air conditioning compressor and alternator directly to the block. Smoothness and idle stability also is achieved through hydraulic engine mounts which dampen engine "rocking."

**Twin Cam Engine Technical Features:**

- 150 horsepower at 5600 rpm
- 155 lb.-ft. of torque at 4400 rpm
- A **composite intake manifold** reduces noise and weight. The dual-plane exhaust manifold allows engineers to tune the engine to achieve optimum performance
- **Exhaust Gas Recirculation (EGR) system** is designed to reduce emissions, improve idle stability and enhance fuel economy

**Battery-Run-down Protection — "How Does It Know?"**

Someone forgot to turn off their interior lights in the airport parking lot. Not a problem, so long as they remember before boarding the plane for a weeklong business trip — or if their car is Cavalier.

When the interior lights are left on longer than 20 minutes, Cavalier turns them off to prevent a dead battery. But, drivers may be thinking ... how does it know? Well, Cavalier has a computer that monitors things like this. Now, if only homes had computers to shut off irons.



## Would You Believe It's In There?

A driver suddenly hits a patch of ice or snow and tires start to spin. Should they worry? Not as much if the car is Cavalier with a 4-speed automatic transmission.\* Because, unlike the Honda Civic, Ford Escort and Dodge Neon, Cavalier offers traction control which, incidentally, is typically offered on uplevel sedans like the Lexus LS400, Infiniti Q45 and BMW 328. So, when prospective buyers are looking for value and premium performance, it pays to look to Cavalier... because it's in there.

\*Standard on LS Sedan, optional on other models.

## Cavalier Owners See Orange — And Love It

Extended-life coolant, good for 5 years or 150,000 miles,\* is standard on all Chevy models. This special coolant is silicone-free, and should increase water pump life and improve corrosion protection for aluminum engine components. It is readily differentiated from its predecessor (green color) by its bright orange color. The two should never be mixed, as coolant life will be shortened.

\*Maintenance needs vary with different uses and driving conditions.

## ENGINES (contd.)

- A unique "in-oil-pan" design balance shaft system helps ensure smooth, quiet performance in the mid- and high-speed driving ranges
- Torque axis powertrain mount system is designed to reduce vibration at idle
- Sequential Fuel Injection precisely delivers fuel to each cylinder providing smoothness at idle, and optimum performance throughout the engine operating range
- A direct-drive power steering pump eliminates the power steering pump belt and improves reliability
- Stainless-steel fuel injectors provide improved corrosion resistance to alcohol-additive fuels
- Cast-aluminum cylinder head helps maintain even engine temperatures and minimize weight
- Extended-life coolant (first scheduled replacement at 5 years or 150,000 miles\*) helps make maintenance easy.

\*Maintenance needs vary with different uses and driving conditions.

## ON-BOARD DIAGNOSTICS SECOND GENERATION (OBD II)

On-board diagnostics for Cavalier is highly sophisticated, thanks to OBD II (On-Board Diagnostics Second Generation), a 1996 federal mandate.

- The system can mean faster repairs and service for consumers. Take better engine diagnosis, for example. In low-level engine misfire, bad fuel, improper maintenance, cracked spark plug insulation or plugged fuel injectors can all lead to a misfire diagnosis that's picked up by OBD II.
- OBD II functions by using a Powertrain Control Module (PCM) to monitor fuel delivery, ignition timing and the emissions system to detect deterioration or malfunction.
- If a problem is detected, a Diagnostic Trouble Code (DTC) is stored and indicates the type of fault detected.

- The PCM stores and retrieves diagnostic messages to help technicians fix problems quickly and accurately.
- The PCM alerts the driver by illuminating the "Service Engine Soon" light when it detects a deterioration in the performance of any of the monitored components.
- Unlike first-generation systems that signaled only system failures, OBD II can alert the driver to have the vehicle serviced before experiencing a possible breakdown or incurring more expensive repairs.

## SEQUENTIAL FUEL INJECTION (SFI)

Sequential Fuel Injection, standard on all 1998 Cavalier models, is a far cry from yesterday's fuel-control systems, such as Electronic Fuel Injection or Multi-Port Fuel Injection. SFI optimizes fuel economy, power output and the ability to meet today's stringent emissions control requirements.

- SFI's secret is its high-precision fuel control, which uses one injector and nozzle per cylinder for optimum cylinder-to-cylinder fuel distribution.
- Each injector is fired sequentially and timed to the intake cycle for accuracy and metering control. (With non-SFI engines, fuel is injected twice per engine revolution through all injectors at the same time. With SFI, the timing is much more precise, thus performance improves across the board.)
- A mass airflow meter constantly measures the engine's air requirements under varying conditions, such as changes in load, altitude and temperature. In an SFI system, the mass airflow meter is essential for accurate fuel delivery.
- The injector nozzle's design and optimum location produce an effective spray pattern that contributes to the engine's smooth idle and outstanding fuel efficiency.



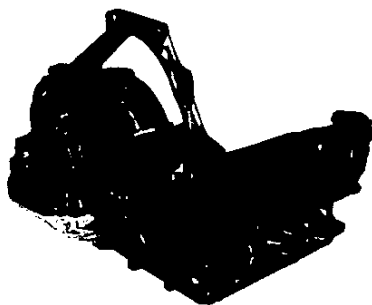
## TRANSMISSIONS

### 5-Speed Manual Transmission

Five-speed manual transmission with improved shift feel (crisper and more sure) is standard on all Cavalier models except the LS Sedan. The 5-speed's wide range of gear ratios allows the driver to select the best gear for any driving situation. The Overdrive fifth gear reduces engine rpm at cruising speed, thereby reducing wear and engine noise.

The 5-speed manual transmission and clutch are engineered to make shifting smooth and easy:

- The clutch pedal has a short, efficient travel
- Clutch and brake pedals are positioned at the same height
- A concentric slave cylinder provides a solid pedal feel and smooth clutch operation.

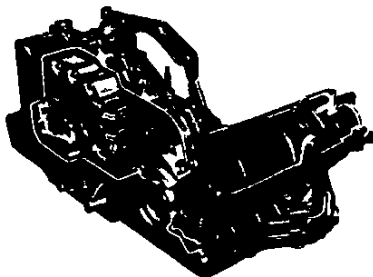


### 3T40 3-Speed Automatic Transmission

Due to its many product enhancements over the years, the Hydra-matic 3T40 has maintained its reputation as a value leader. It continues to provide customers seeking economical transportation with a dependable, fuel-efficient transmission. The 3T40 transverse-mounted 3-speed automatic is optional on Cavalier Coupe and Cavalier Sedan. Features of the 3T40 design include wide-ratio gearing to maximize vehicle performance and hydraulic controls for smooth, accurate shift points.

- Chevrolet models equipped with automatic transmissions have electronic shift indicators (PRNDL), giving the driver a precise indication of the gear selected.
- The Powertrain Control Module (PCM) collects information about the operating condition of the 3T40-3 and alerts the driver with a "service engine soon" light if there is a deterioration that could cause the vehicle to exceed acceptable emission levels.
- 3T40 is factory-filled, long-life automatic transmission fluid that will not need to be replaced for up to 100,000 miles, under normal operating conditions.\* There is no dipstick since none is required.
- A premium input gear set allows for efficient lubrication flow, resulting in smooth operation and quiet shift characteristics.
- The torque converter clutch features a cost-effective way of engaging and releasing that is so quiet and smooth, drivers won't be aware of clutch operation.
- The final-drive pinion gears are double-honed, improving surface finish which allows for better interface with the needle bearings, leading to improved durability.

\*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.



### 4T40-E 4-Speed Electronic Automatic Transmission

The 4T40-E 4-speed electronically controlled automatic transmission helps provide a smooth driving experience often reserved only for more luxury vehicles. The 4T40-E is standard on LS Sedan, optional on all other models.

### Where Did That Jerk Go?

Chevrolet automatic transmissions, like the 4T40-E, provide owners with a smooth driving experience often associated with luxury vehicles. The electronic shift control helps reduce that "jerky" feeling between gears. The key to achieving this is the fully integrated and synchronized PCM. It monitors engine operation and environmental factors, such as altitude and temperature, to create a seamless link between engine, transmission and vehicle.

### Demographics

#### Median Age:

- Coupe buyers — 29 years
- Sedan buyers — 39 years
- Convertible buyers — 42 years.

#### Median Household Income:

- Coupe buyers — \$40,000
- Sedan buyers — above \$40,000
- Convertible buyers — \$65,000.

#### Percent Male/Female:

- Coupe buyers — 66 percent are women
- Sedan buyers — 65 percent are women.

#### Education:

- All Cavalier buyers — high school and some college.

#### Additional facts:

- Coupe buyers — young, often first-time buyers
- Sedan buyers — older, more likely married
- Z24 Convertible buyers — younger, more affluent.



### Transmission Fluid? Don't Give It A Second Thought.

Chevrolet automatic transmissions, like the 3T40 and 4T40-E, are factory filled with a long-life transmission fluid. This fluid should never need changing under normal operating conditions,\* since it features a special additive that resists oxidation, provides outstanding friction characteristics and is compatible with the wide range of materials used in today's transmissions. Even the change interval for severe service — 50,000 miles — is three times that of its predecessor fluid. It all adds up to good news for the driver (greater convenience, less expense) and the environment.

\*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.

### TRANSMISSIONS (contd.)



- Electronically controlled capacity clutch, designed to enhance fuel economy while maintaining pleasant driveability.
- The 4T40-E transmission is specifically designed for small front-wheel-drive vehicles.
- Helping maximize fuel efficiency is a long-standing hallmark of the 4T40-E. It's engineered to maximize the efficient transfer of power from the engine to the drive wheels.
- Impressive off-line performance is another 4T40-E characteristic.
- Lightweight design also typifies the 4T40-E, and works to make an important contribution to fuel efficiency. A chain transfer two-axis configuration was chosen for its simple, effective design. Thin wall castings, strengthened by strategically placed supporting ribs, permit strong parts at lower weight. Lost-foam castings also contribute to the transmission's low weight. (Lost foam is a technique whereby foam is injected into the casting and is melted away under heat, leaving only the cavity remaining.) Special lightweight composite materials are used on a variety of components.
- 4T40-E is factory-filled, long-life automatic transmission fluid that will not need to be replaced for up to 100,000 miles, under normal operating conditions.\* (This has an important environmental impact as well, since people will dispose of less transmission fluid.)
- The transmission fluid dipstick is eliminated, since no maintenance is required.
- The PCM continuously monitors operating conditions, such as altitude and temperature, to determine the optimal shift points and to provide a seamless link between the vehicle and engine. The PCM collects information about the operating

condition of the 4T40-E and alerts the driver with a "service engine soon" light if there is a deterioration that could cause the vehicle to exceed acceptable emission levels.

- Engine-braking is available in all forward gears — a significant aid in controlling the vehicle when driving down steep hills and on slippery road surfaces.

### TRACTION CONTROL

Rare on compact cars, traction control provides improved grip on low-traction surfaces such as snow or ice. Typically, traction control is found on luxury cars costing two or even three times as much:

- Mercedes-Benz C Class
- Lexus
- Infiniti
- BMW

By way of comparison, traction control doesn't make the equipment list of Honda Civic, Ford Escort or Dodge Neon ... at any price.

Traction control is standard on all Cavalier models equipped with 4T40-E 4-speed automatic transmission. Traction control provides increased control during takeoff on slippery surfaces or those encountered while driving.

- Traction control is a powertrain management system, controlling slippage by controlling powertrain torque.
- When drive-wheel spin exceeds a predetermined limit, the system activates the enhanced traction. Utilizing the ABS speed sensors, the Integrated Chassis Controller monitors front (drive) wheel speed and rate of acceleration to determine desired wheel torque and transmission gear to optimize drive-wheel spin. The PCM controls torque output for the road conditions by retarding the spark timing. Traction control is available when the transmission is in drive, in third gear and in reverse.
- While there is no switch to turn traction control off, the system is disabled when the transmission is in first or second gear, which is useful if the driver needs to rock the vehicle.





## SUSPENSION

Cavalier provides drivers with a suspension that not only offers agile handling characteristics, but also provides a comfortable ride not usually associated with cars in this segment. The tight body structure is a big contributor to these goals. Because the body minimizes flex so well, it gave the suspension engineers a very stable platform from which to work, so they could concentrate on a suspension that provides predictable handling and a comfortable ride — and not worry about compensating for body flexing when cornering or going over bumps. Notable suspension features include:

- **MacPherson strut front suspension, trailing twist-beam rear suspension.** With this front “independent” suspension design, road shocks are not transferred to the opposite wheel
- A “**progressive-ride**” system allows precise tuning between the chassis and suspension system to improve isolation, impact harshness, motion control, shake and structural fee
- **Dual-path front struts** provide good road feel, yet maintain isolation from bumps
- **Level II Sport Suspension** on Z24 Coupe models includes shaped inner metal bushings on front lower control arms, higher-rate front and rear springs, specific shocks and struts and a larger front stabilizer bar, which result in a firmer ride and sportier handling
- **Coil-Over-Shock Rear Suspension** design positions the shock and spring “in-line” to distribute road inputs (potholes, etc.) throughout the body structure, helping to dissipate the energy for a less jarring ride
- **Accurate wheel alignment** is ensured on all four wheels by using precision equipment during the manufacturing process. Throughout the vehicle-build process, measurements are taken to ensure that components affecting final wheel

alignment are correct. This manufacturing process is so accurate that it is not necessary to set wheel camber or caster.

## STEERING

Power-assisted rack-and-pinion steering is standard on all Cavalier models for precise control under demanding driving conditions. This system provides:

- **15.7:1 ratio** for Cavalier LS and Z24 (14.7:1 for Cavalier models) for quick steering response.
- A **steering rack** that is mounted on the front suspension cradle to provide a solid feel, while adding more isolation from road disturbances, compared to steering racks mounted directly to the car body.
- A **direct-drive power steering pump** (see more detailed description, right).

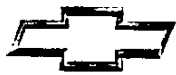
## BRAKES

All Cavalier models have front disc/rear drum brakes with standard power assist. GM's award-winning ABS VI anti-lock brake system is standard equipment on all models. Some things to keep in mind about anti-lock brakes:

- The main benefit of ABS is that it helps the driver to maintain steering control and minimizes wheel lockup on most slippery surfaces during severe braking situations
- ABS can adjust brake pressure several times per second, a rate even most skilled professional drivers cannot attain
- The system adjusts the brake-line pressure at the wheels. Drivers should not “pump” the brakes in emergency braking situations. Rather, they should maintain constant pressure on the brake pedal, allowing the system to work effectively.

## One Less Thing To Worry About

If you've ever lost power steering assist due to a broken accessory drive belt, then you know how difficult it can be to steer without it. The Cavalier 2.4L Twin Cam engine eliminates the possibility of that happening through a simple solution: Get rid of the belt. The power steering pump instead is driven directly by one of the engine's camshafts. So, if the accessory drive belt breaks, full power steering assist is available to safely pull off the road. But, the benefits don't end there. By mounting the power steering pump directly to the camshaft cover, there also is a savings in weight and amount of parts, since such things as traditional mounting brackets are not needed. This design is just another example of the careful engineering used throughout Cavalier — and another of the many reasons why Cavalier is the “easy-to-own, smart buy” among small cars.



# 1998 Cavalier

## GM Mobility Program

Chevrolet recognizes the importance of mobility to everyone's life and, therefore, offers financial assistance to persons with disabilities through the General Motors Mobility Program. This program can provide financial assistance — up to \$1,000 — toward the cost of any after-market adaptive equipment for drivers or passengers and/or vehicle "alerting devices" for deaf and hearing-impaired drivers. A special feature of the program is single-transaction GMAC financing for the vehicle and its adaptive aids. Further details are available by calling the GM Mobility Assistance Center at 1-800-323-9935. The hearing impaired can call the Customer Assistance Center at 1-800-TDD-CHEV

## WHEELS AND TIRES



### Cavalier Coupe and Sedan:

- Standard 14" steel wheels
- Bolt-on full wheel covers reduce chance of loss or theft
- P195/70R-14 all-season steel-belted radial blackwall tires.



### Cavalier RS Coupe, and LS Sedan:

- Standard 15" steel wheels (included with Exterior Appearance Package on Cavalier Coupe and Sedan models). Bolt-on full wheel covers reduce chance of loss or theft
- P195/65R-15 all-season Touring steel-belted radial blackwall tires (included with Appearance Package on Cavalier Coupe/Sedan models)

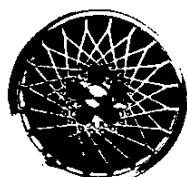


- Optional 15" aluminum wheels for Cavalier LS Sedan and RS Coupe
- P195/65R-15 all-season steel-belted radial blackwall Touring tires.



### Cavalier Z24 Coupe:

- Standard 16" aluminum wheels
- P205/55R-16 Performance steel-belted radial blackwall tires.



### Cavalier Z24

#### Convertible:

- Standard 15" aluminum wheels with cross-lace design
- P195/65R-15 all-season steel-belted radial blackwall Touring tires.

## GENUINE CUSTOMER CARE

Chevrolet owners are covered by Genuine Customer Care, a comprehensive owner protection plan that includes the following:



### Bumper to Bumper Warranty

The GM 3-year/36,000-mile (whichever comes first), non-deductible, limited warranty covers repairs for all Chevrolet cars, including labor and parts, to correct any defects in material or workmanship occurring during the warranty period. Warranty features include air conditioning repair, tires, towing, no-cost warranty transfer and 6-year/100,000-mile (whichever comes first) sheet-metal rust-through protection. There also is emissions control system coverage, which varies by geographic location. The only item not covered by the warranty is normal maintenance.



### Courtesy Transportation

Customers who purchase or lease a Chevrolet Cavalier are eligible for Courtesy Transportation (at no charge) when their vehicles are left at a participating dealership for repairs covered under the 3-year/36,000-mile Bumper to Bumper Limited Warranty. Courtesy Transportation, at participating dealers only, may include shuttle service, expense reimbursement, or, if the repairs require leaving the vehicle overnight, a vehicle rental. Owners should see their dealer for details.



### 24-Hour Roadside Assistance

Lost? We'll help owners find their way. Locked out? We'll get them back in their Cavalier. Out of gas? We'll get them gas. Roadside Assistance is provided via a toll-free number 24 hours a day, 365 days a year. Roadside Assistance is offered in two levels of service, Basic Care and Courtesy Care.



## GENUINE CUSTOMER CARE (contd.)

Roadside Basic Care covers owners as long as they own their Cavalier. Roadside Basic Care provides:

- Free towing for warranty repairs (to closest dealer)
- Over-the-phone basic technical advice
- Available dealer services at reasonable costs (i.e., wrecker services, locksmith/key service, glass repair, etc.).

Roadside Courtesy Care is available to owners for a period of three years or 36,000 miles (whichever comes first). Roadside Courtesy Care provides:

- Free towing (to closest dealer)
- Free locksmith/key service (when keys are lost on the road or locked inside)
- Free flat tire service, jump-start and fuel delivery.

*Important — a word about this document: We have tried to make this document as comprehensive and factual as possible. We reserve the right, however, to make changes at any time, without notice, in colors, materials, equipment, specifications, models and availability. Some information may have been updated since the time of printing in June 1997.*

*A note about air bags: Always wear safety belts, even with air bags.*

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*Some artwork contained within this text is for representation purposes only.*

## History (By Model Year)

Introduced in spring 1981 as a 1982 model.

- 1983 — Cyclonic induction, fuel-injected 2.0 Liter engine; Convertible debuts
- 1984 — Cavalier is the best-selling car in the U.S.
- 1985 — 2.8 Liter V6 introduced; major suspension tuning.
- 1987 — Gen II 4- and 6-cylinder engines; Getrag 5-speed; Z24 Convertible for California only.
- 1988 — Aerodynamic facelift for coupes and Convertible; Z24 Convertible goes national
- 1991 — All-new interior and minor exterior changes; RS Convertible debuts.
- 1992 — ABS VI brake system is standard; Z24 Convertible returns; Port Fuel Injection on L4.
- 1994 — 2.2 Liter LN2 improvements; 3.1 Liter V6 option available on all Cavalier RS models.
- 1995 — All-new interior and exterior design, new 2.3 Liter Quad 4 engine, 4T40-E transmission and standard dual air bags.
- 1996 — New Daytime Running Lamps, 2.4 Liter Twin Cam engine; OBD II; extended-life coolant.
- 1997 — Rally Sport Coupe model added, new easy-open gas cap, enhanced Evaporative Emissions Control system and federal dynamic side-impact standards met.

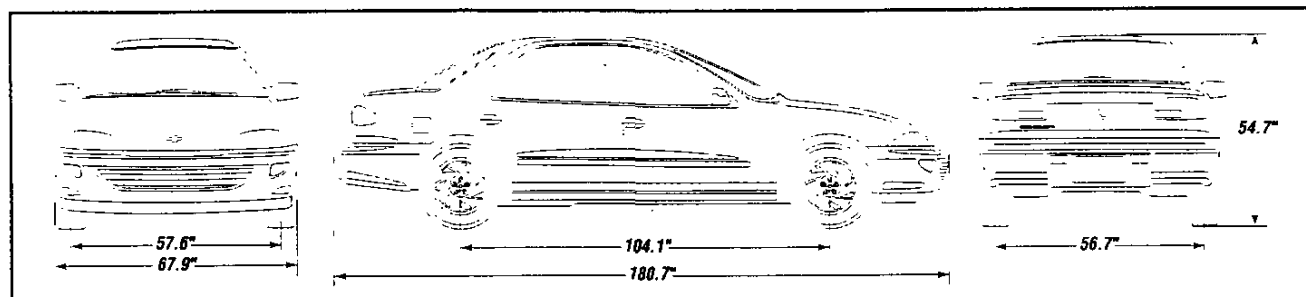


# 1998 Cavalier Feature Availability

	Coupe/Sedan	RS Coupe	LS Sedan	Z24 Coupe	Z24 Convertible
<b>INTERIOR</b>					
Air Bags – Driver and Front Passenger	S	S	S	S	S
Air Conditioning – with CFC-Free Refrigerant	O	O	S	S	S
Defogger – Rear-Window, Electric	O	O	O	O	S
Door Locks – Power	O	O <sup>1</sup>	O <sup>1</sup>	S	S
Easy Entry Passenger Seat	O/NA	S	NA	S	NA
Remote Keyless Entry	NA	O	O	S	S
Scotchgard™ Protector	S	S	S	S	S
Seat – Full-Folding, Rear	S	S	S	S	S
Speed Control – Electronic	O	S	S	S	S
Steering Column – Tilt-Wheel™ Adjustable	O	S	S	S	S
Stereo – AM/FM	S	S	NA	NA	NA
– AM/FM w/Cassette Player	O	O	S	S	S
– AM/FM w/Cassette Player and Premium Front Coaxial Speakers	O	O	O	O	O
– AM/FM w/CD Player and Premium Front Coaxial Speakers	O	O	O	O	O
Sunroof – Power	O/NA	O	NA	O	NA
Trunk Release – Mechanical/Power	O/NA	S/O <sup>1</sup>	S/O <sup>1</sup>	NA/S	NA/S
Tachometer/Trip Odometer	NA/S	S/S	S/S	S/S	S/S
Windows – Power	NA	O	O	S	S
Wipers – Intermittent Fixed	S	NA	NA	NA	NA
– Intermittent Variable	O	S	S	S	S
<b>EXTERIOR</b>					
Daytime Running Lamps	S	S	S	S	S
Moldings – Body-Side, Body-Color	O <sup>2</sup>	S	S	S	S
Mud Guards – Front	O	S	S	NA	NA
Paint – Basecoat/Clearcoat	S	S	S	S	S
Spoiler – Rear Decklid	NA	S	O	S	S
Tires – P195/70R-14 Blackwall	S	NA	NA	NA	NA
– P195/65R-15 Blackwall	O <sup>2</sup>	S	S	NA	S
– P205/55R-16 Performance	NA	NA	NA	S	NA
Wheel Covers – 14" Bolt-On, Full	S	NA	NA	NA	NA
– 15" Bolt-On, Full	O <sup>2</sup>	S	S	NA	NA
Wheels – 15" Aluminum	NA	O	O	NA	S <sup>3</sup>
– 16" Aluminum	NA	NA	NA	S	NA
<b>FUNCTIONAL</b>					
Battery-Run-down Protection	S	S	S	S	S
Brake System – 4-Wheel Anti-Lock (ABS)	S	S	S	S	S
Engine – 2200 L4 SFI	S	S	S	NA	NA
– 2.4 Liter Twin Cam L4 SFI	NA	NA	O	S	S
Exhaust System – Stainless Steel	S	S	S	S	S
PassLock Theft-Deterrent System	S	S	S	S	S
Steering – Power Rack-and-Pinion	S	S	S	S	S
Transmission – 5-Speed Manual	S	S	NA	S	S
– 3-Speed Automatic	O	NA	NA	NA	NA
– 4-Speed Electronically Controlled Automatic with Traction Control	O <sup>4</sup>	O	S	O	O

S — Standard. O — Optional (some options may be available only as part of a Preferred Equipment Group; see your order guide for feature availability). NA — Not available. 1 Included with Remote Keyless Entry. 2 Included in available Exterior Appearance Package, included with coupe/sedan PEGs 1SB, 1SC (coupe) and 1SG (sedan). 3 Cross-lace design. 4 Requires PEG 1SB on Cavalier coupe models.

# 1998 cavalier specifications



## MODEL AVAILABILITY

Cavalier Coupe/Sedan, RS Coupe, LS Sedan, Z24 Coupe/Convertible

EPA vehicle class

Compact

Assembly

Lansing, Mich.

Lordstown, Ohio

Ramos Arizpe, Mexico

## DIMENSIONS & CAPACITIES (inches, unless otherwise noted)

Exterior Dimensions	Coupe	Sedan	Convertible
Wheelbase	104.1	104.1	104.1
Length (overall)	180.1	180.7	180.7
Width (overall)	67.9	67.9	68.7
Height (overall)	53.0	54.7	53.7
Tread — front	57.6	57.6	57.6
Tread — rear	56.4	56.7	56.6
Interior Front Dimensions			
Headroom	37.6	38.9	38.1
Legroom	42.3	42.3	42.3
Shoulder room	53.9	54.6	53.9
Hip room	50.0	50.8	50.0
Interior Rear Dimensions			
Headroom	36.6	37.2	37.6
Legroom	33.2 (34.6 — Z24)	34.4	32.8
Shoulder room	54.9	53.9	47.1
Hip room	49.5	50.6	47.8
Capacities			
Passenger capacity	5	5	5
Passenger index (cu. ft.)	87.1	95.0	82.8
Cargo index (cu. ft.)	13.2	13.6	10.5
Fuel tank capacity (gal.)	15.2	15.2	15.2
EPA interior index (cu. ft.)	100.3	105.1	93.3
Curb weight (lbs., est.)	2584 (2749 — Z24)	2630	2899
Engine oil (quarts)	4.0 (2.2 Liter L4)	4.0 (2.4 Liter Twin Cam)	
Engine coolant (quarts)	9.6 (2.2 Liter L4)	10.0 (2.4 Liter Twin Cam)	

## STEERING

Type	Power Rack-and-Pinion
Ratio (overall)	14.7:1, 15.7:1 (uplevel)
Turns stop-to-stop	2.6, 2.8 (uplevel)
Turning diameter curb-to-curb (ft.)	35.6



# 1998 Cavalier Specifications

## BRAKES

Type	Power, front vented disc/rear drum with 4-wheel ABS
Gross lining, front/rear (sq. in.)	31.7/50.2
Effective area, front/rear (sq. in.)	31.7/50.2
Front disc rotor outer working diam. (in.)	10.2
Rear drum diameter x width (in.)	7.87 x 1.77
Total sweep area, front/rear (sq. in.)	182.2/86.2

## ENGINES

Model	Std. Coupe, Sedan RS Coupe, LS Sedan	Opt. LS Sedan; Std. Z24 Coupe, Z24 Convertible
Type	2200 Liter I4 SFI	2.4 Liter Twin Cam I4
Block	Cast iron	Cast iron
Cylinder head	Cast aluminum	Cast aluminum
Valve configuration	Overhead valves (OHV)	Dual Overhead Camshafts (DOHC)
Hydraulic lifters	Yes/roller	Yes
Bore & Stroke (in.)	3.5 x 3.46	3.54 x 3.70
(mm)	89.0 x 88.0	90.0 x 94.0
Cam drive	Chain	Chain
Redline (maximum rpm)	6000	6500
Displacement (liters/cu. in.)	2.2/134	2.4/146
Compression ratio	9.0:1	9.5:1
Fuel induction	Sequential Fuel Injection (SFI)	Sequential Fuel Injection (SFI)
Horsepower @ engine rpm	115 @ 5000	150 @ 5600
Torque (lb.-ft.)	135 @ 3600	155 @ 4400
Exhaust system	One-piece welded stainless steel	One-piece welded stainless steel
Tailpipe(s)	Single outlet	Single outlet (dual on Z24)
Ignition system	Electronic direct ignition	Electronic direct ignition
Delcotron alternator rating	105 amps	105 amps
Battery (SAE capacity rating)	525 cca	600 cca
Recommend fuel (unleaded)	87 octane	87 octane

## TRANSMISSIONS

Model	Std. Coupe, Sedan, RS Coupe, Z24 Coupe and Convertible	Opt. Coupe, Sedan	Std. LS Sedan, Opt. Coupe, Sedan, RS Coupe, Z24 Coupe and Convertible
Type	5-speed manual	3-speed automatic	4-speed elec. automatic with OD and traction control
Layout	FWD transverse	FWD transverse	FWD transverse
Gear ratios:			
1st	3.91 (3.73 — Z24)	2.84	2.96
2nd	2.18	1.60	1.63
3rd	1.45 (1.33 — Z24)	1.00	1.00
4th	1.03 (0.92 — Z24)	-	0.68
5th	0.74	-	-
Reverse	3.58	2.07	2.13
Final drive ratios	3.58 (3.94 — Z24)	3.18	3.63 (3.91 with 2.4 Twin Cam I4)

# 1998 Cavalier Specifications



## CHASSIS

Chassis	
Structure/frame	Unitized body construction
Body material	Steel (two-side-galvanized on all exposed metal surfaces)
Suspension — front	
Type	Independent MacPherson strut w/coil spring
Stabilizer bar/diameter (mm)	Link/22 (Z24 models only)
Suspension — rear	
Type	Trailing tubular control arms with twist beam
Stabilizer bar/diameter (mm)	Solid/18 (Z24 models only)

## MILEAGE/PERFORMANCE\*

Type	2.2L 5-Speed Manual	2.2L 3-Speed Automatic	2.2L 4-Speed Automatic	2.4L 5-Speed Manual	2.4L 4-Speed Automatic
Mileage:					
City	25	24	25	23	22
Highway	37	31	34	33	32
Combined	29	27	28	26	26
Est. cruising range:					
City	380	365	380	350	334
Highway	562	471	517	502	486
Combined	441	410	426	395	395

\*Based on 1997 EPA figures. 1998 figures not available at time of publication.

## TRAILERING INFORMATION\*

Model	LS Sedan <sup>1</sup>	Z24 Coupe and Convertible
Trailer classification	Light	Light
Gross trailer weight (lbs., up to)	1000	1000
Max tongue load (lbs.)	100	100

\*The available 2.4 Liter Twin Cam L4 engine and 4-speed automatic transmission is the only Cavalier powertrain recommended for trailer towing.

<sup>1</sup>When equipped with optional 2.4 Liter Twin Cam L4 engine and 4-speed automatic transmission.

## WHEELS & TIRES

	Coupe/Sedan	RS Coupe, LS Sedan	Z24 Coupe	Z24 Convertible
Wheel type/size	Steel/14" x 6"	Steel/15" x 6"	Cast-aluminum/16" x 6"	Cast-aluminum/15" x 6"
Wheel trim	14" bolt-on full covers	15" bolt-on full covers	NA	NA
Tire type	All-season SBR BW	All-Season SBR BL Touring	All-season SBR BW Performance	All-season SBR BL Touring
Tire size (front)	P195/70R-14	P195/65R-15	P205/55R-16	P195/65R-15
Spare size	T115/70D-14	T115/70D-14	T115/70D-14	T115/70D-14

All specifications are preliminary and subject to change. Chevrolet Motor Division, June 1997.





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# 1998 CAVALIER HIGHLIGHTS

## NEW FOR 1998

- POWER WINDOWS AND KEYLESS ENTRY ONLY AVAILABLE ON LS/RS MODELS
- RADIO DELETE OPTION NO LONGER AVAILABLE
- AM/FM RADIO (UM7) STANDARD ON RS COUPE, BASE SEDAN AND COUPE MODELS
- CRUISE CONTROL STANDARD ON RS COUPE, LS SEDAN, AND Z24 COUPE/CONVERTIBLE
- LS CONVERTIBLE REPLACED WITH Z24 CONVERTIBLE

## EXTERIOR

- NEUTRAL TOP (52T) INTERIM 1998

## INTERIOR

- MEDIUM GRAY (92C) MONO-TONE COLOR SCHEME
- NEUTRAL (52B) MONO-TONE COLOR SCHEME
- MEDIUM BLUE AND LIGHT GRAY DROPPED

## PREFERRED EQUIPMENT GROUPS (PEGS)

- APPEARANCE PACKAGE (W27) INCLUDED IN UPLEVEL PEGS ON NON LS/RS MODELS
- PREFERRED EQUIPMENT GROUP OVERLAP REDUCED

## COLORS

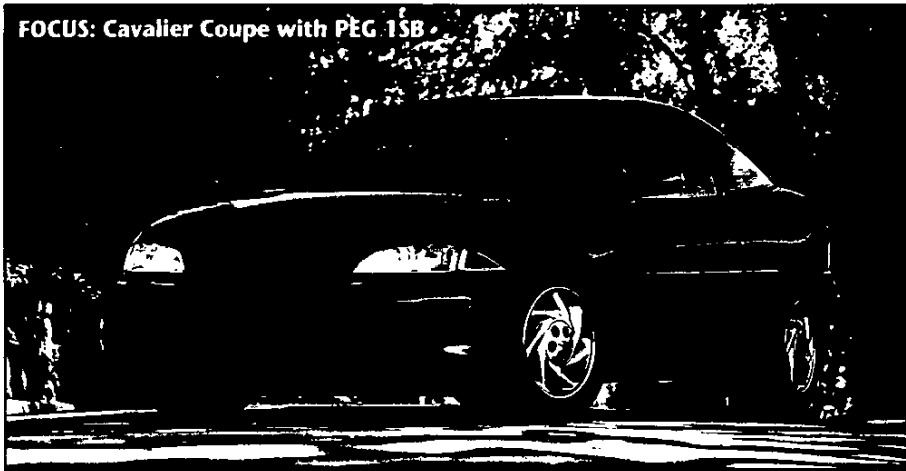
- GOLD (60U)
-



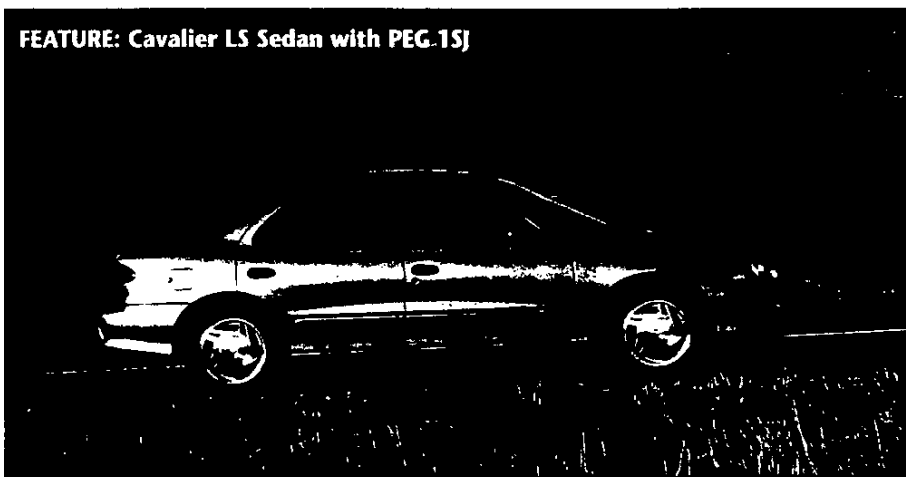


# Cavalier

Dealer Order Guide inserts are your first look at Chevrolet Passenger Car models for 1998. Overall improvements, changes and deletions are highlighted. Use these inserts to assist you in ordering your initial shipments. NOTE: This information is preliminary and is subject to change.



**FOCUS: Cavalier Coupe with PEG 15B**



**FEATURE: Cavalier LS Sedan with PEG 15J**



## Cavalier at a glance

*Extended durability components are built in to deliver lasting performance to match the good looks of Cavalier. And, with engineering features like enhanced traction control, four-wheel anti-lock brakes and rear-seat safety belt guides, it's no wonder the easy-to-own Cavalier is the popular choice among drivers seeking value.*

Cavalier

© 1997. All information correct at time of printing.



### Cavalier 2-Door Coupe with Preferred Equipment Group 15B *(image above, top)*

The Focus vehicle is the model chosen for its saleability. It is equipped with the product features that customers want most. Generally, it is the "volume" vehicle that comprises the majority of the build. You'll want to be sure you have several of these models in stock. NOTE: Model, PEG and optional equipment may vary in your locality. Use the Retail Sales Analysis (RSA) to verify or select your dealership's Focus vehicle content.

#### Ordering Recommendations:

The recommended Cavalier Coupe content, based on national sales volume, is listed below to assist your dealership in ordering.

See page 4 for additional standard feature details.

Cavalier Coupe with Preferred Equipment Group 15B includes:

- Exterior Appearance Package (includes body-color fascias and body-side moldings, 15-inch bolt-on wheel covers and P195/65R-15 B/W Touring tires)
- Cargo-Area Convenience Net
- Dual, Covered Visor Mirrors with Map Straps
- Front Mud Guards
- Easy-Entry Passenger Seat
- Mechanical Trunk Opener
- Intermittent Variable Wipers.

#### Suggested Individual Options:

- 3- or 4-Speed Automatic Transmission
- Air Conditioning with CFC-Free Refrigerant
- Rear-Window Defogger
- AM/FM Stereo with Cassette Player.

Popular Colors: Green Metallic, Bright White, Black and Bright Red.



### Cavalier LS Sedan with Preferred Equipment Group 15J *(image above, bottom)*

The Feature vehicle is the "image" model Chevrolet will profile most in its advertising. Generally, it does the best job of capturing attention and creating consumer awareness.

Cavalier LS Sedan with Preferred Equipment Group 15J offers a mixture of practicality and comfort, making it a perfect choice for young families.

#### Ordering Recommendations:

The recommended Cavalier LS Sedan content, based on national sales volume, is listed below to assist your dealership in ordering.

LS Sedan with Preferred Equipment Group 15J includes:

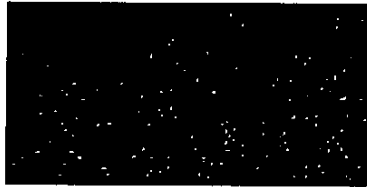
- Power Mirrors
- Power Windows, with Driver's Express-Down Feature
- Remote Keyless Entry.

#### Suggested Individual Options:

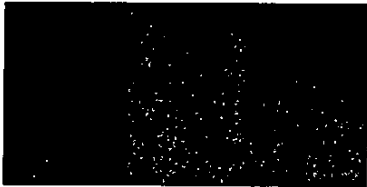
- Electric Rear-Window Defogger
- AM/FM Stereo with CD Player
- Rear Spoiler
- 15" Aluminum Wheels.

Lead Color: Medium Gold Metallic.

## Trim Colors



Cloth available in Graphite, Medium Gray and Neutral.

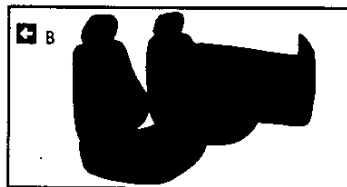


Sport Cloth: available in Graphite, Medium Gray and Neutral.



Vinyl available in Arctic White.

## Seat Styles



- A. Cloth reclining bucket seats with adjustable vinyl head restraints on Base Sedan and Base Coupe. Rally Sport embroidery on cloth front head restraints for RS models.
- B. Sport Cloth reclining bucket seats (LS Sedan, Z24 Coupe and Z24 Convertible). NOTE: New seat sew pattern and Z24 Coupe Graphite Sport Cloth not shown.
- C. Arctic White Vinyl reclining bucket seats with lumbar support (Z24 Convertible only).

## Wheels



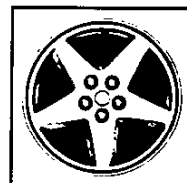
Cavalier standard 14" bolt-on full wheel cover.



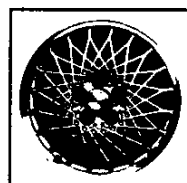
Cavalier RS Coupe and LS Sedan standard 15" bolt-on full wheel cover (included with Exterior Appearance Package).



(RPO PF7) Cavalier RS Coupe and LS Sedan optional 15" aluminum wheel.



Cavalier Z24 Coupe standard 16" aluminum wheel.



Cavalier Z24 Convertible standard 15" cross-lace aluminum wheel.

Cavalier

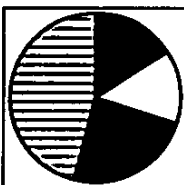
## Most Popular Exterior Colors with Corresponding Interior Color Availability

### INTERIOR MATERIAL COLORS

	Graphite	Medium Gray	Neutral	Arctic White*
<b>EXTERIOR COLORS*</b>				
Green Metallic	✓	✓	✓	✓
Bright White	✓	✓	✓	✓
Black	✓	✓	✓	
Bright Red	✓	✓	✓	✓

See order guide for color availability by model. \* Z24 Convertible only.

## Most Popular Exterior Colors by Percentage



Clockwise, at left, are the forecasted most popular Cavalier colors for 1998, based on national sales volume. They are listed for reference only. To identify the top-selling colors in your area, by model, use the Retail Sales Analysis (RSA).

Green Metallic	16%
Bright White	14%
Black	12%
Bright Red	12%
Other colors	46%

NOTE: There is one new Cavalier exterior color for 1998 — Medium Gold Metallic.



# Cavalier



S.P.A.C.E. is an acronym to help organize and explain key features and benefits in five major categories a customer needs and wants. Overall improvements, changes and deletions are highlighted. Please review the supplied information, keeping in mind that this material is provided to you before production start-up — and is liable to change.

## S.P.A.C.E. (New-for-'98 features appear in blue.)



### SAFETY

• **DRIVER AND FRONT-PASSENGER AIR BAGS** — help reduce the chance of injury in certain moderate to severe frontal collisions. Always wear safety belts, even with air bags. • **4-WHEEL ANTI-LOCK BRAKE SYSTEM (ABS)** —helps reduce wheel lockup and helps driver maintain steering control during severe braking, even on slippery surfaces. • **PassLock THEFT-DETERRENT SYSTEM** — provides a high level of security without requiring a special key. • **SAFETY-CAGE CONSTRUCTION** — Cavalier features a rigid safety cage surrounding the entire passenger compartment and energy-absorbing front and rear body structures, making it feel solid, stable and well-built. • **CHILD SECURITY REAR-DOOR LOCKS** — manually lock to prevent a child from opening rear doors from the inside.



### PERFORMANCE

• **2200 4-CYLINDER ENGINE WITH SEQUENTIAL FUEL INJECTION** — improved for 1998, this engine delivers an impressive 115 horsepower at 5000 rpm and 135 lb.-ft. of torque @ 3600 rpm. • **2.4 LITER TWIN-CAM 4-CYLINDER ENGINE WITH SEQUENTIAL FUEL INJECTION** — standard on Z24 Coupe and Convertible and optional on LS Sedan. Produces 150 horsepower at 5600 rpm, for outstanding performance • **TRANSMISSION CHOICES** — a 5-speed manual transmission with a new shifter is standard on Base Coupe and Sedan models and also on RS Coupe, Z24 Coupe and Z24 Convertible models. A 3-speed automatic is optional on Base Coupe and Sedan models and a 4-speed electronically controlled automatic with overdrive and traction control is available for all models except LS Sedan. The 4-speed automatic is standard on LS Sedan. • **STANDARD POWER STEERING** — makes in-city parking and maneuvering easy.



### APPEARANCE

• **NEW Z24 CONVERTIBLE WITH CROSS-LACE DESIGN ALUMINUM WHEELS** — brings new excitement to the Cavalier lineup for 1998. • **OPTIONAL REAR SPOILER FOR LS SEDAN** — offers sporty appearance. • **ONE NEW EXTERIOR COLOR** — Medium Gold Metallic. • **NEW MONOTONE INTERIOR COLOR SCHEME** — for a more attractive interior. • **AVAILABLE EXTERIOR APPEARANCE PACKAGE (BASE COUPE AND SEDAN MODELS\*)** — includes body-color fascias and body-side moldings, 15" bolt-on wheel covers and P195/65R-15 Touring tires. • **BASECOAT/CLEARCOAT PAINT** — provides a more durable, lustrous finish and reduces the severity of water-spotting and etching from acid rain. • **TWO-SIDE-GALVANIZED STEEL** — resists corrosion on all body panels except the roof. • **BOLT-ON FULL WHEEL COVERS** — reduce chance of loss or theft.

\*Included in Base Coupe/Sedan PEGs 1SB, 1SC (Coupe) and 1SG (Sedan).



### COMFORT AND CONVENIENCE

• **NEW ELECTRIC ODOMETER AND TRIP ODOMETER** — for greater customer satisfaction. • **BATTERY-RUNDOWN PROTECTION** — helps prevent the battery from discharging when the vehicle is not in use. • **AVAILABLE REMOTE KEYLESS ENTRY (STANDARD ON Z24 COUPE AND Z24 CONVERTIBLE)** — includes power door locks and remote trunk release, makes vehicle entry quick and easy. • **AIR CONDITIONING WITH CFC-FREE REFRIGERANT (STANDARD ON LS AND Z24 MODELS)** — quickly cools interior for occupant comfort. • **LIGHTING** — interior dome light fades slowly when doors are closed. • **CLOTH RECLINING FRONT BUCKET SEATS** — combine support and comfort with a reclining feature. • **FULL-FOLDING REAR SEATBACK** — provides additional cargo-carrying flexibility.



### EASY-TO-OWN

• **STAINLESS-STEEL EXHAUST SYSTEM** — includes all pipes, catalytic converter and muffler to resist corrosion. • **EXTENDED-LIFE COOLANT** — has a first-scheduled replacement interval of 5 years or 150,000 miles, whichever comes first.\* • **PLATINUM-TIP SPARK PLUGS** — allow up to 100,000 miles before the first scheduled tune-up.\* • **SCOTCHGARD™ PROTECTOR** — on cloth seats and door panels, resists stains and makes cleanup easy. • **EXTENDED-LIFE TRANSMISSION FLUID** — never needs changing under normal driving conditions.\* • **GENUINE CUSTOMER CARE** — 3-year/36,000-mile, no-deductible, Bumper to Bumper limited warranty, 24-Hour Roadside Assistance via toll-free hot line, and Courtesy Transportation, if your vehicle ever needs warranty work, at participating dealers.

\*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.

## Competitive Models

- Main competitors for Cavalier Coupe and Sedan include: Ford Escort, Dodge/Plymouth Neon, Honda Civic and Toyota Corolla.
- Chief competitors for Cavalier Z24 Coupe include: Eagle Talon and Ford Escort ZX2 Coupe.

## New for 1998

- The new Z24 Convertible model replaces the LS Convertible.
- The 2200 Liter L4 with Sequential Fuel Injection is improved for 1998, delivering an impressive 115 hp at 5000 rpm and 135 lb.-ft of torque at 3600 rpm.
- An optional rear spoiler is available for LS Sedan models. This handsome new option is a highly attractive styling touch.

## Additional Information on Significant Features

- The strong value story that has made Cavalier such a popular choice continues for 1998. Good looks, an impressive list of safety features and extended-durability components team up to keep Chevy Cavalier high on the list of cost-conscious, first-time buyers — especially young women and young families looking for quality, reliability and dependability.
- Every Cavalier features a 4-wheel anti-lock brake system (ABS) as standard equipment. ABS helps reduce wheel lockup and helps the driver maintain steering control during severe braking.
- Driver and front-passenger air bags are standard in every Cavalier, helping reduce the chance of injury in certain moderate to severe frontal collisions. Always wear safety belts, even with air bags.
- Cavalier has a rigid body structure that helps provide outstanding ride and handling. A safety cage helps protect occupants in case of a collision.
- Theatre lighting fades the interior dome light slowly and evenly when the doors are closed.
- Cavalier features as standard equipment a PassLock theft-deterrent system, a completely passive device that requires no special key.

## Feature Availability

	Coupe/ Sedan	RS Coupe	LS Sedan	Z24 Coupe	Z24 Convertible
<b>INTERIOR</b>					
Air Bags – Driver and Front-Passenger	S	S	S	S	S
Air Conditioning – with CFC-Free Refrigerant	O	O	S	S	S
Defogger – Rear-Window, Electric	O	O	O	O	S
Door Locks – Power	O	O <sup>1</sup>	O <sup>1</sup>	S <sup>1</sup>	S <sup>1</sup>
Easy-Entry Passenger Seat	O/NA	S	NA	S	NA
Remote Keyless Entry	NA	O	O	S	S
Scotchgard™ Protector	S	S	S	S	S
Seat – Full-Folding, Rear	S	S	S	S	S
Speed Control – Electronic	O	S	S	S	S
Steering Column – Tilt-Wheel™ Adjustable	O	S	S	S	S
Stereo – AM/FM	S	S	NA	NA	NA
– AM/FM w/Cassette Player	O	O	S	S	S
– AM/FM w/Cassette Player and Premium Coaxial Speakers	O	O	O	O	O
– AM/FM w/CD Player and Premium Coaxial Speakers	O	O	O	O	O
Sunroof – Power	O/NA	O	NA	O	NA
Trunk Release – Mechanical	O	S	S	NA	NA
– Power	NA	O <sup>1</sup>	O <sup>1</sup>	S <sup>1</sup>	S <sup>1</sup>
Tachometer – w/Trip Odometer	NA	S	S	S	S
Windows – Power	NA	O	O	S	S
Wipers – Intermittent Fixed	S	NA	NA	NA	NA
– Intermittent Variable	O	S	S	S	S
<b>EXTERIOR</b>					
Daytime Running Lamps – Automatic	S	S	S	S	S
Moldings – Body-Side, Body-Color	O <sup>2</sup>	S	S	S	S
Mud Guards – Front	O	S	S	NA	NA
Paint – Basecoat/Clearcoat	S	S	S	S	S
Spoiler – Rear Decklid	NA	S	O	S	S
Tires – P195/70R-14 Blackwall	S	NA	NA	NA	NA
– P195/65R-15 Blackwall	O <sup>2</sup>	S	S	NA	S
– P205/55R-16 Performance	NA	NA	NA	S	NA
Wheel Covers – 14" Bolt-On, Full	S	NA	NA	NA	NA
– 15" Bolt-On, Full	O <sup>2</sup>	S	S	NA	NA
Wheels – 15" Aluminum	NA	O	O	NA	S <sup>3</sup>
– 16" Aluminum	NA	NA	NA	S	NA
<b>FUNCTIONAL</b>					
Battery – with Run-down Protection	S	S	S	S	S
Brake System – 4-Wheel Anti-Lock (ABS)	S	S	S	S	S
Engine – 2200 L4 SFI	S	S	S	NA	NA
– 2.4 Liter L4 Twin Cam SFI	NA	NA	O	S	S
Exhaust System – Stainless Steel	S	S	S	S	S
PassLock Theft-Deterrent System	S	S	S	S	S
Steering – Power Rack-and-Pinion	S	S	S	S	S
Transmission – 5-Speed Manual	S	S	NA	S	S
– 3-Speed Automatic	O	NA	NA	NA	NA
– 4-Speed Electronically Controlled Automatic with Traction Control	O <sup>4</sup>	O	S	O	O

S — Standard. O — Optional (some options may be available only as part of a Preferred Equipment Group; see your order guide for feature availability). NA — Not available. 1 Included with Remote Keyless Entry. 2 Included in available Exterior Appearance Package, included with Base Coupe/Sedan PEGs 15B, 15C (Coupe) and 15G (Sedan). 3 Cross-lace design. 4 Requires PEG 15B on Cavalier Coupe models.

CAVALIER

EQUIPMENT SUMMARY

		1JC37/ 1JC69	1JC37 RS	1JF69	1JF37	1JF67
<b>STANDARD INTERIOR FEATURES</b>						
AIR CONDITIONING:		--	--	S	S	S
CARGO NET:	LUGGAGE AREA	--	S	S	S	S
CRUISE CONTROL:	AUTOMATIC, ELECTRIC	--	S	S	S	S
CUPHOLDER:		S	S	S	S	S
DEFOGGERS:	SIDE WINDOWS	S	S	S	S	S
	REAR WINDOW, ELECTRIC	--	--	--	--	S
GAGES:	TACHOMETER AND TRIP ODOMETER	--	S	S	S	S
GLASS:	TINTED	S	S	S	S	S
KEYLESS ENTRY:	REMOTE (INCLS POWER DOOR LOCKS)	--	--	--	S	S
LIGHTING:	COURTESY LAMPS, DOME (EXCLUDES CONV), GLOVE BOX, TRUNK	S	S	S	S	S
	DUAL HEADLINER MOUNTED READING LAMP	--	--	S	S	--
	MIRROR MOUNTED DUAL READING LAMPS	--	--	--	--	S
PASSLOCK:	THEFT DETERRENT SYSTEM	S	S	S	S	S
RADIO:	ELECTRONICALLY TUNED AM/FM STEREO RADIO W/SEEK-SCAN, DIGITAL CLOCK	S	S	--	--	--
	ELECTRONICALLY TUNED AM/FM STEREO RADIO W/SEEK-SCAN, DIGITAL CLOCK AND CASSETTE TAPE	--	--	S	S	S
RESTRAINT SYSTEM:	DRIVER AND PASSENGER SIDE AIR BAGS	S	S	S	S	S
SAFETY BELTS:	REAR COMFORT GUIDE, CHILD REAR SEAT	S	S	S	S	S
SCOTCHGARD:	FABRIC PROTECTOR, INCLUDES SEATS AND DOOR TRIM	S	S	S	S	S
STEERING WHEEL:	TILT	--	S	S	S	S
TRUNK RELEASE:	MECHANICAL OPENER	--	S	S	--	--
WINDOWS:	POWER	--	--	--	S	S
WIPERS:	INTERMITTENT, FIXED DELAY 3-SPEED	S	--	--	--	--
	INTERMITTENT, VARIABLE	--	S	S	S	S
<b>STANDARD EXTERIOR FEATURES</b>						
INSULATOR PAD:	ENGINE COMPARTMENT AND UNDER HOOD	S	S	S	S	S
LIGHTS:	DAYTIME, RUNNING	S	S	S	S	S
PAINT:	BASE COAT/CLEAR COAT	S	S	S	S	S
TIRES:	P195/70R-14 B/W	S	--	--	--	--
	P195/65R-15 B/L	--	S	S	--	S
	P205/55R-16 B/L	--	--	--	S	--
TRUNK TRIM:	DELUXE	S	S	S	S	S
<b>STANDARD CHASSIS FEATURES</b>						
AXLE:	W/MM5 = 3.58 (W/LD9 = 3.94)	S	S	--	--	--
	W/MX0 = 3.63 (W/LD9 = 3.91)	S	S	S	S	S
	W/MX1 = 3.18	S	--	--	--	--
BATTERY:	RUNDOWN PROTECTION	S	S	S	S	S
BRAKE:	4-WHEEL ANTI-LOCK	S	S	S	S	S
ENGINE:	2200 SFI L4	S	S	S	--	--
	2.4 LITER TWIN CAM SFI L4	--	--	--	S	S
EXHAUST SYSTEM:	STAINLESS STEEL W/ALUMINIZED STAINLESS STEEL MUFFLER AND TAIL PIPES	S	S	S	S	S
STEERING:	POWER RACK AND PINION	S	S	S	S	S
TRANSMISSION:	4-SPEED ELECTRONICALLY CONTROLLED AUTOMATIC W/TRACTION CONTROL	--	--	S	--	--
	5-SPEED MANUAL	S	S	--	S	S

# CAVALIER

## TRIM DEFINITION & OPTION SUMMARY

		1JC37/ 1JC69	1JC37 RS	1JF69	1JF37	1JF67
<b><u>INTERIOR TRIM</u></b>						
CONSOLE:	FLOOR SHIFTER WITH INTEGRAL ARMREST AND STORAGE	S	S	S	S	S
FLOOR COVERING:	CARPETING, PASSENGER FLOOR	S	S	S	S	S
	FLOOR MATS	--	S	S	S	S
MIRRORS:	DUAL COVERED VISOR MIRRORS W/MAP STRAPS	--	S	S	S	S
SEAT:	REAR FULL FOLDING	S	S	S	S	S
SEATING:	CLOTH & VINYL RECLINING FRONT BUCKET SEATS WITH ADJUSTABLE HEAD RESTRAINT	S	S	--	--	--
	CLOTH RECLINING FRONT BUCKET SEATS WITH ADJUSTABLE HEAD RESTRAINT	--	--	S	S	S
	EASY ENTRY PASSENGER SEAT	--	S	--	S	--
	EMBROIDERED 'RALLY SPORT' HEAD REST	--	S	--	--	--
	UPELVEL CLOTH	--	--	S	S	S
<b><u>EXTERIOR TRIM</u></b>						
BUMPERS:	5 MPH	S	S	S	S	S
DECAL:	"RALLY SPORT"	--	S	--	--	--
FASCIAS:	GRAPHITE (BODY COLOR OPTIONAL)	S	--	--	--	--
	BODY COLORED W/BLACK GRILLE	--	S	S	--	--
	BODY COLOR	--	--	--	S	S
HEADLAMPS:	COMPOSITE HALOGEN	S	S	S	S	S
LAMPS:	FOG	--	--	--	S	S
MIRRORS:	RH OSRV BREAKAWAY, SPORT LH REMOTE AND RH MANUAL	S	S	S	--	--
	POWER	--	--	--	S	S
MOLDINGS:	BODY SIDE, COLOR-KEYED	--	S	S	--	--
	BODY SIDE, COLOR-KEYED Z24 GRAPHICS	--	--	--	S	S
MUD GUARDS:	FRONT	--	S	S	--	--
SPOILER:	REAR DECK	--	S	--	S	S
WHEEL COVERS:	14" BOLT-ON FULL WHEEL COVERS	S	--	--	--	--
	15" BOLT-ON FULL WHEEL COVERS	--	S	S	--	--
	16" CAST ALUMINUM WHEEL	--	--	--	S	--
WHEEL:	15" CAST ALUMINUM WHEEL CROSS-LACE DESIGN	--	--	--	--	S



# CAVALIER COUPE

## Model 1JC37 Cavalier Coupe

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SA	1SB	1SC
<b>Base Equipment Group</b> (Refer Standard Equipment Summary)	x	x	x
<b>Preferred Equipment Group 1</b>			
Appearance Package, Exterior (Incls Body Color Fascias and Side Moldings, 15" Bolt-On Wheel Covers, and P195/65R15 B/L Touring Tires		x	x
Convenience Net, Cargo Area		x	x
Floor Covering: Carpeted Mats, Color-Keyed Front and Rear		x	x
Mirrors, Dual Covered Visor with Map Straps		x	x
Mud Guards, Front		x	x
Seat, Easy Entry Passenger		x	x
Trunk Releaser, Mechanical		x	x
Windshield Wiper System, Intermittent Variable		x	x
<b>Preferred Equipment Group 2 (N/A MX1)</b>			
Mirrors, Power			x
Speed Control: Electronic, with Resume Speed			x
Steering, Tilt Wheel, Adjustable Steering Column			x

### ADDITIONAL OPTIONS

#### OPTION

##### ACKNOWLEDGMENTS:

- R8S Multiple Order Numbers
- R8T Preliminary Invoice

##### AIR CONDITIONING: (MUST SPECIFY)

- C60 Air Conditioning
- R6G Air Conditioning Not Desired

- VK3 **BRACKET:** License Plate, Front

##### DEFOGGER: (MUST SPECIFY)

- C49 Rear Window: Electric
- R9W Rear Window Defogger Not Desired

- AU3 **DOOR LOCKS:** Power

##### EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)

- FE9 Federal Emission Requirements
- NG1 New York, Massachusetts or Connecticut Emission Requirements
- YF5 California Emission Requirements
- NB8 CA, NY, MA or CT Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- K05 **HEATER:** Engine Block

# CAVALIER COUPE

## ADDITIONAL OPTIONS CONT'D

### OPTION

#### RADIO EQUIPMENT:

- UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock and Stereo Cassette Tape
- UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)
- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

CF5 **SUNROOF:** Electric (Incls Mirror Map Light) (N/A 1SA)

#### TRANSMISSIONS: (MUST SPECIFY)

- MM5 5-Speed Manual (Base)
- MX1 3-Speed Automatic (N/A 1SC)
- MX0 4-Speed Automatic Electronically Controlled (Incls Traction Control)  
(Reqs 1GB) NA 1SA

# CAVALIER COUPE

## INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE:** The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

TRIM LEVEL Cloth Bucket		INTERIOR COLORS		
		Graphite 12B	Med Gray 92B	Neutral 52B
Exterior Colors Solid Colors	Color Code	RECOMMENDED INTERIOR TRIM COLORS		
Aqua, Bright (Met)	43U	x	x	x
Black	41U	x	x	x
Blue, Aquamarine (Met)	22U	x	x	
Blue, Med Opal (Met)	24U	x	x	
Gold, Med (Met)	60U	x		x
Green (Met)	37U	x	x	x
Purple, Deep (Met)	89U	x	x	x
Red, Bright	81U	x	x	x
Red, Cayenne (Met)	98U	x	x	x
White, Bright	16U	x	x	x

# CAVALIER RS COUPE

## Model 1JC37 Cavalier RS Coupe

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SD	1SE
Base Equipment Group (Refer Standard Equipment Summary)	x	x
Preferred Equipment Group 1		
Power Mirrors		x
Power Windows, Driver's Express Down		x
Remote Keyless Entry (Incls Power Door Locks and Trunk Release. Replaces Mechanical Opener)		x

### ADDITIONAL OPTIONS

#### OPTION

- ACKNOWLEDGEMENTS:**
- R8S Multiple Order Numbers
  - R8T Preliminary Invoice
- AIR CONDITIONING: (MUST SPECIFY)**
- C60 Air Conditioning
  - R6G Air Conditioning Not Desired
- BRACKET: License Plate, Front**
- DEFOGGER: (MUST SPECIFY)**
- C49 Rear Window: Electric
  - R9W Rear Window Defogger Not Desired
- DOOR LOCKS: Power**
- EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)**
- FE9 Federal Emission Requirements
  - NG1 New York, Massachusetts or Connecticut Emission Requirements
  - YF5 California Emission Requirements
  - NB8 CA, NY, MA or CT Emission Override (Reqs FE9 Emissions)
  - NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- HEATER: Engine Block**
- RADIO EQUIPMENT:**
- UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock and Stereo  
Cassette Tape
  - UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone  
Control, Cassette Tape, Theft Lock and Speed Compensated Volume (Incls Premium  
Front and Rear Coaxial Speakers)
  - UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone  
Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls  
Premium Front Coaxial Speakers)
- SUNROOF: Electric (Incls Mirror Map Light)**
- TRANSMISSIONS: (MUST SPECIFY)**
- MM5 5-Speed Manual (Base)
  - MX0 4-Speed Automatic Electronically Controlled (Incls Traction Control)
- WHEELS: 15" Aluminum**

## CAVALIER RS COUPE

### INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE:** The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

TRIM LEVEL		INTERIOR COLOR
		Graphite
Exterior Colors	Color	RECOMMENDED INTERIOR
Solid Paint	Code	TRIM COLORS
Aqua, Bright (Met)	43U	x
Black	41U	x
Green (Met)	37U	x
Purple, Deep (Met)	89U	x
White, Bright	16U	x

# CAVALIER SEDAN

## Model 1JC69 Cavalier Sedan

**MUST ORDER ONE GROUP – NO DELETIONS ALLOWED**

	1SF	1SG
<b>Base Equipment Group</b>		
(Refer Standard Equipment Summary)	x	x
<b>Preferred Equipment Group 1</b>		
Appearance Package, Exterior (Incls Body Color Fascias and Side Molding, 15" Bolt-On Wheel Covers, and P195/65R15 Touring Tires)		x
Convenience Net, Cargo Area		x
Floor Covering: Carpeted Mats, Color-Keyed Front and Rear		x
Mirrors, Dual Covered Visor with Map Straps		x
Mud Guards, Front		x
Trunk Release, Mechanical		x
Windshield Wiper System, Intermittent Variable		x

### ADDITIONAL OPTIONS

#### OPTION

##### ACKNOWLEDGEMENTS:

- R8S Multiple Order Numbers
- R8T Preliminary Invoice

##### AIR CONDITIONING: (MUST SPECIFY)

- C60 Air Conditioning
- R6G Air Conditioning Not Desired

- VK3 **BRACKET:** License Plate, Front

##### DEFOGGER: (MUST SPECIFY)

- C49 Rear Window: Electric
- R9W Rear Window Defogger Not Desired

- AU3 **DOOR LOCKS:** Power

##### EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)

- FE9 Federal Emission Requirements
- NG1 New York, Massachusetts or Connecticut Emission Requirements
- YF5 California Emission Requirements
- NBB CA, NY, MA or CT Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
- K05 **HEATER:** Engine Block

**ADDITIONAL OPTIONS CONT'D**

**OPTION**

**RADIO EQUIPMENT:**

- UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock and Cassette Tape
- UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)
- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

**TRANSMISSIONS: (MUST SPECIFY)**

- MM5 5-Speed Manual (Base)
- MX1 3-Speed Automatic
- MX0 4-Speed Automatic Electronically Controlled (Incls Traction Control)

# CAVALIER SEDAN

## INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE:** The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

TRIM LEVEL		INTERIOR COLORS		
		Graphite	Med Gray	Neutral
Cloth Bucket		12B	92B	52B
Exterior Colors Solid Paint	Color Code	RECOMMENDED INTERIOR TRIM COLORS		
Aqua, Bright (Met)	43U	x	x	x
Black	41U	x	x	x
Blue, Aquamarine (Met)	22U	x	x	
Blue, Med Opal (Met)	24U	x	x	
Gold, Med (Met)	60U	x		x
Green (Met)	37U	x	x	x
Purple, Deep (Met)	89U	x	x	x
Red, Bright	81U	x	x	x
Red, Cayenne (Met)	96U	x	x	x
White, Bright	16U	x	x	x



# CAVALIER LS SEDAN

## Model 1JF69 Cavalier LS Sedan

MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	1SH	1SJ
Base Equipment Group (Refer Standard Equipment Summary)	x	x
Preferred Equipment Group 1		
Power Mirrors		x
Power Windows, Driver's Express Down		x
Remote Keyless Entry (Incls Power Door Locks and Trunk Release. Replaces Mechanical Opener)		x

### ADDITIONAL OPTIONS

#### OPTION

#### ACKNOWLEDGEMENTS:

R8S Multiple Order Numbers

R8T Preliminary Invoice

VK3 **BRACKET:** License Plate, Front

#### DEFOGGER: (MUST SPECIFY)

C49 Rear Window: Electric

R9W Rear Window Defogger Not Desired

AU3 **DOOR LOCKS:** Power (Incl w/1SJ)

#### EMISSIONS: ( MUST SPECIFY) (Refer Emission Requirements Tab Section)

FE9 Federal Emission Requirements

NG1 New York, Massachusetts or Connecticut Emission Requirements

YF5 California Emission Requirements

NB8 CA, NY, MA or CT Emission Override (Reqs FE9 Emissions)

NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)

#### ENGINES: (MUST SPECIFY)

LN2 2200 SFI L4

LD9 2.4 Liter L4 SFI Twin Cam

K05 **HEATER:** Engine Block

#### RADIO EQUIPMENT:

UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

T43 **SPOILER**

PF7 **WHEEL:** 15" Aluminum

# CAVALIER LS SEDAN

## INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE:** The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

TRIM LEVEL		INTERIOR COLORS		
		Graphite	Med Gray	Neutral
Cloth Bucket		12C	92C	52C
Exterior Colors	Color Code	RECOMMENDED INTERIOR TRIM COLORS		
Solid Paint				
Aqua, Bright (Met)	43U	x	x	x
Black	41U	x	x	x
Blue, Aquamarine (Met)	22U	x	x	
Blue, Med Opal (Met)	24U	x	x	
Gold, Med (Met)	60U	x		x
Green (Met)	37U	x	x	x
Purple, Deep (Met)	89U	x	x	x
Red, Bright	81U	x	x	x
Red, Cayenne (Met)	96U	x	x	x
White, Bright	16U	x	x	x

## CAVALIER Z24 COUPE

### Model 1JF37 Z24 COUPE

MUST ORDER 1SK -- NO DELETIONS ALLOWED

Base Equipment Group  
(Refer Standard Equipment Summary)

1SK
X

### ADDITIONAL OPTIONS

**OPTION ACKNOWLEDGEMENTS:**

R8S Multiple Order Numbers

R8T Preliminary Invoice

VK3 **BRACKET:** License Plate, Front

**DEFOGGER: ( MUST SPECIFY)**

C49 Rear Window: Electric

R9W Rear Window Defogger Not Desired

**EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)**

FE9 Federal Emission Requirements

NG1 New York, Massachusetts or Connecticut Emission Requirements

YF5 California Emission Requirements

NB8 CA, NY, MA or CT Emission Override (Reqs FE9 Emissions)

NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)

K05 **HEATER:** Engine Block

**RADIO EQUIPMENT:**

UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

CF5 **SUN ROOF:** Electric ( Incls Mirror Map Light)

**TRANSMISSIONS: (MUST SPECIFY)**

MM5 5-Speed Manual

MX0 4-Speed Automatic Electronically Controlled (w/Traction Control)

# CAVALIER Z24 COUPE

## INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE:** The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

TRIM LEVEL		Graphite	Med Gray	Neutral
Sport Cloth Bucket		12D	92C	52C
Exterior Colors	Color Code	RECOMMENDED INTERIOR TRIM COLORS		
Solid Paint				
Aqua, Bright (Met)	43U	x	x	x
Black	41U	x	x	x
Blue, Aquamarine (Met)	22U	x	x	
Blue, Med Opal (Met)	24U	x	x	
Gold, Med (Met)	60U	x		x
Green (Met)	37U	x	x	x
Purple, Deep (Met)	89U	x	x	x
Red, Bright	81U	x	x	x
Red, Cayenne (Met)	96U	x	x	x
White, Bright	16U	x	x	x

# CAVALIER Z24 CONVERTIBLE

## Model 1JF67 Z24 CONVERTIBLE

MUST ORDER 1SL

Base Equipment Group  
(Refer Standard Equipment Summary)

1SL
x

### ADDITIONAL OPTIONS

#### OPTION ACKNOWLEDGEMENTS:

R8S Multiple Order Numbers

R8T Preliminary Invoice

VK3 **BRACKET:** License Plate, Front

#### **EMISSIONS: (MUST SPECIFY)** (Refer Emission Requirements Tab Section)

FE9 Federal Emission Requirements

NG1 New York, Massachusetts or Connecticut Emission Requirements

YF5 California Emission Requirements

NB8 CA, NY, MA or CT Emission Override (Reqs FE9 Emissions)

NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)

K05 **HEATER:** Engine Block

#### **RADIO EQUIPMENT:**

UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette Tape, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls Premium Front Coaxial Speakers)

#### **SEATS: (MUST SPECIFY)**

AR9 Bucket

AS5 Bucket (w/Adjustable Lumbar Support Driver Side Only)

#### **TRANSMISSIONS: (MUST SPECIFY)**

MM5 5-Speed Manual

MX0 4-Speed Automatic Electronically Controlled w/Traction Control)

# CAVALIER Z24 CONVERTIBLE

## INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE:** The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations that are Available.

TRIM LEVEL Seat Type	(a) SEAT Opt	INTERIOR COLORS			
		Artic White	Graphite	Med Gray	Neutral
Cloth Bucket	AR9	10N	12C	92C	52C
(b) Vinyl Bucket	AS5				
Exterior Colors Solid Paint	Color Code	RECOMMENDED INTERIOR TRIM COLORS			
Aqua, Bright (Met)	43U	16T/41T		16T/41T	
Black	41U		16T/41T/52T	16T/41T	16T/41T/52T
Blue, Med Opal (Met)	24U	16T/41T	16T/41T		
Gold, Met (Met)	60U	16T/41T/52T			16T/41T/52T
Green (Met)	37U	16T/41T	16T/41T	16T/41T	52T
Purple, Deep (Met)	89U	16T/41T	16T/41T	16T/41T	16T/41T/52T
Red, Bright	81U	16T/41T	16T/41T	16T/41T	16T/41T/52T
White, Bright	16U	16T/41T	16T/41T	16T/41T	16T/41T/52T

(a) Seat Option AR9 or AS5 Must Be Specified

(b) Includes Adjustable Lumbar Support (Driver Side Only)

Top Option Must Be Specified in "Plus" (+) Option Section of Order Worksheet

### CONVERTIBLE TOP COLOR

ARCTIC WHITE.....16T    BLACK.....41T    NEUTRAL.....52T

# MOTOR VEHICLE MANUFACTURERS SPECIFICATIONS

METRIC (U.S. CUSTOMARY)

## 1998

<b>Manufacturer</b> CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	<b>Vehicle Line</b>  CAVALIER		
<b>Mailing Address</b>  30007 VAN DYKE WARREN, MICHIGAN	<table border="1"><tr><td><b>Issued</b>  SEPTEMBER, 1997</td><td><b>Revised</b></td></tr></table>	<b>Issued</b>  SEPTEMBER, 1997	<b>Revised</b>
<b>Issued</b>  SEPTEMBER, 1997	<b>Revised</b>		

Direct questions concerning these specifications to the manufacturer listed above.

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General Specifications herein are those in effect at date of compilation and are subject to change without notice of incurring obligation by the manufacturer.

# AAMA

**American Automobile Manufacturers Association**  
Forms Provided by Engineering Affairs Division

**Specifications**

METRIC (U.S. Customary)

Vehicle Line CAVALIER

Model Year 1998

Issued 9-97

Revised (●) \_\_\_\_\_

**Vehicle Origin**

Design & development (company)	General Motors Corporation, L.A.D. Lansing
Where built (country)	U.S.A
Authorized U.S. sales marketing representative	Chevrolet Motor Divisions

**Vehicle Models**

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
<b>CAVALIER</b>					
2-Door Notchback Coupe (FWD)	9-97	1JC37	2/3	60(132)	23/34
4-Door Notchback Sedan (FWD)	9-97	1JC69	2/3	60(132)	23/34
<b>CAVALIER "LS"</b>					
2-Door Convertible (FWD)	9-97	1JF67	2/3	60(132)	25/34
4-Door Sedan (FWD)	9-97	1JF69	2/3	60(132)	25/34
<b>CAVALIER "Z24"</b>					
2-Door Notchback Coupe	9-97	1JF37	2/3	60(132)	23/33

\* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive



**Specifications**

METRIC (U.S. Customary)

Vehicle Line CAVALIER

Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

**Power Teams**

SAE J1349 Net bhp (brake horsepower) and Net Torque corrected to 77°F/25°C and 29.61 in. Hg/100 kPa atmospheric pressure.

		A	B	C	D	E	
<b>E N G I N E</b>	Engine Code	LN2	LN2	LN2	LD9	LD9	
	Displacement Liters (in³)	2.2L (133) 4L	2.2L (133) 4L	2.2L (133) 4L	2.4L (146) 4L	2.4L (146) 4L	
	Induction system (FI, Carb, etc.)	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	
	Compression ratio	9.0:1	9.0:1	9.0:1	9.5:1	9.5:1	
	SAE Net at RP M	Power kW (bhp)	86 (115) @ 5000	86 (115) @ 5000	86 (115) @ 5000	112 (150) @ 5600	112 (150) @ 5600
		Torque N • m (lb. ft.)	183 (135) @ 3600	183 (135) @ 3600	183 (135) @ 3600	210 (155) @ 4400	210 (155) @ 4400
	Exhaust single, dual	Single	Single	Single	Single	Single	
<b>T R A N S</b>	Transmission/ Transaxle	MK7	MN4	MD9	MJ1	MN4	
	Effective Final Drive / Axle Ratio (std. first)	3.58	3.63	3.18	3.94	3.91	

Model	Series Availability Code	Power Teams (A - B - C - D)	
		Standard	Optional
<b>CAVALIER</b>			
2-Door Notchback Coupe	1JC37	A	B,C
4-Door Notchback Sedan	1JC69	A	B,C
<b>CAVALIER "LS"</b>			
2-Door Convertible	1JF67	D	B,E
4-Door Notchback Sedan	1JF69	B	E
<b>CAVALIER "Z24"</b>			
2-Door Notchback Coupe	1JF37	D	E

**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**

<b>Engine Description</b>	2.2 LITER L4
<b>Engine Code</b>	LN2

**Engine - General**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Inline, Front, Transverse, OHV	
Manufacturer	General Motors Powertrain Group	
No. of cylinders	Four	
Bore	89.0 mm	
Stroke	88.0 mm	
Bore Spacing (C / L to C / L)	99.0 mm	
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron 44.5 (98.1)	
Cylinder block deck height	216.65 mm	
Cylinder block length	443 mm	
Deck clearance (minimum) (above or below block)	.6 mm (Below)	
Cylinder head material & mass kg. (lbs.)	Aluminum 9.7 kg (21.4 lbs)	
Cylinder head volume cm <sup>3</sup> (inches <sup>3</sup> )	52.4 (3.2)	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	1.55 mm	
Minimum combustion chamber total volume cm <sup>3</sup> (inches <sup>3</sup> )	67.9 (4.1)	
Cyl. no. system (front to rear) *	L. Bank	1-2-3-4
	R. Bank	Not Applicable
Firing order	1-3-4-2	
Intake manifold material & mass kg. (lbs.) **	Composite, 2.0 (4.4)	
Exhaust manifold material & mass kg. (lbs) **	High Silicon Moly Cast Iron 3.7 kg (8.2 lbs)	
Knock sensor (number & location)	One, Right Side Of Block	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine Mounts	Quantity	3-Automatic, 4-Manual
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	(2) Elastomeric (1) Hydroelastic - Automatic (3) Elastomeric (1) Hydroelastic - Manual
	Added isolation (sub-frame, crossmember, etc.)	No
Total dressed engine mass (wt) dry ***	Manual: 158.7 kg (With Oil), Automatic: 147.7 kg (With Oil)	

**Engine - Pistons**

Material & mass, g (weight, oz.) - piston only	Aluminum, 329 (11.6)
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**Engine - Camshaft**

Location	In Block, Right Side	
Material & mass kg (weight, lbs.)	Assembled Steel 2.1 (4.6)	
Drive type	Chain / belt	Chain
	Width / pitch	19.3 / 9.53 mm

\* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

\*\* Finished state.

\*\*\* Dressed engine mass (weight) includes the following: A/C Compressor Brackets & Bolts Radiator Pipe, Air Cleaner ASM., Ducts & Bolts Generator Brackets, Bolts & ACC Belt Starter Motor & Bolts Transaxle Brace, Flywheel Cover & Bolts, Exhaust Down pipe w/ Converter & bolts EVAP EMIS Canister w/ Hoses, Module Powertrain Control

**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

**Engine Description**  
**Engine Code**

2.4 LITER L4  
 SEQUENTIAL FUEL INJECTION RPO LD9

**Engine - General**

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		Inline, Front Transverse, DOHC
Manufacturer		General Motors Powertrain Group
No. of cylinders		Four
Bore		90 mm
Stroke		94 mm
Bore Spacing (C / L to C / L)		100 mm
Cylinder block material & mass kg. (lbs.) (machined)		Cast Iron 52.2 (115.7)
Cylinder block deck height		221.9 mm
Cylinder block length		499.5 mm
Deck clearance (minimum) (above or below block)		0
Cylinder head material & mass kg. (lbs.)		Aluminum 9.0 kg (19.8 lbs)
Cylinder head volume cm <sup>3</sup> (inches <sup>3</sup> )		59.5 (3.63)
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		1.2 mm
Minimum combustion chamber total volume cm <sup>3</sup> (inches <sup>3</sup> )		130.09 (7.94)
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	Not Applicable
Firing order		1-3-4-2
Intake manifold material & mass kg. (lbs.)**		Composite, 1.4 (3.1)
Exhaust manifold material & mass kg. (lbs.)**		High Silicon Moly Cast Iron 6.4 kg (14.1 lbs)
Knock sensor (number & location)		One, Rear of Block
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) - 2		87
Engine Mounts	Quantity	3-Automatic 4- Manual
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	(2) Elastomeric (1) Hydroelastic - Automatic; (3) Elastomeric (1) Hydroelastic -Manual
	Added isolation (sub-frame, crossmember, etc.)	No
Total dressed engine mass (wt) dry***		Manual: 202 kg (With Oil), Automatic: 190 (With Oil)

**Engine - Pistons**

Material & mass, g (weight, oz.) - piston only	Aluminum 344 (12)
--	-------------------

**Engine - Camshaft**

Location	Dual Overhead Camshafts	
Material & mass kg (weight, lbs.)	Cast Iron, Intake: 2.85 (6.28), Exhaust: 2.84 (6.26)	
Drive type	Chain / belt	Chain
	Width / pitch	13.31 mm / 9.53 mm

\* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

\*\* Finished state.

\*\*\* Dressed engine mass (weight) includes the following: A/C Compressor Brackets & Bolts Radiator Pipe, Air Cleaner ASM., Ducts & Bolts Generator Brackets, Bolts & ACC Belts Starter Motor & Bolts, Transaxle Brace, Flywheel Cover & Bolts, , Exhaust Downpipe w/ Converter & Bolts , EVAP EMIS Canister w/ Hoses, And Module Powertrain Control

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.2 LITER L4
Engine Code	LN2

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard	
Valves	Number intake / exhaust	Four/Four
	Head O.D. intake / exhaust	44.0 mm /37.0 mm

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel, 0.55 (1.2)
Length (axes C/L to C/L)	141.95 mm

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Cast Iron, 14.4 (31.7)	
End thrust taken by bearing (no.)	Four	
Length & number of main bearings	20.76 mm , Five	
Seal (material, one, two piece design, etc.)	Front	One Piece, Fluoroelastomer
	Rear	One Piece, Fluoroelastomer

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	82.7 - 137.9 (12-20) @ 3000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0 qt.)

Engine - Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0°F.		
Injector nozzle	Type	
	Opening pressure kPa (psi)	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

\* Finished State

**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised \_\_\_\_\_

METRIC (U.S. Customary)

**Engine Description**  
**Engine Code**

2.4 LITER L4  
 LD9

**Engine - Valve System**

Hydraulic lifters (std., opt., n.a.)	Standard
Valves	Number intake / exhaust
	Head O.D. intake / exhaust
	Eight/Eight
	35.5 mm/29.0 mm

**Engine - Connecting Rods**

Material & mass kg., (weight, lbs.)*	Steel 0.66 (1.5)
Length (axes C/L to C/L)	145 mm

**Engine - Crankshaft**

Material & mass kg., (weight, lbs.)*	Cast Iron , 21.4 kg (47.2 lbs)
End thrust taken by bearing (no.)	Three
Length & number of main bearings	28.6 mm (1,2,4,5), 27.3 mm (3)
Seal (material, one, two piece design, etc.)	Front
	Rear
	One Piece, Viton
	One Piece, Viton

**Engine - Lubrication System**

Normal oil pressure kPa (psi) at engine rpm	207 (30) @ 2000
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.75 (4)

**Engine - Diesel Information (NOT APPLICABLE)**

Diesel engine manufacturer	
Glow plug, current drain at 0°F.	
Injector nozzle	Type
	Opening pressure kPa (psi)
Pre-chamber design	
Fuel Injection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

**Engine - Intake System (NOT APPLICABLE)**

Turbo charger - manufacturer
Super charger - manufacturer
Intercooler

\* Finished State

**Specifications**

 Vehicle Line CAVALIER

 Model Year 1998

 Issued 9-97

Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**
**Engine Description**

2.2 LITER L4

**Engine Code**

LN2

**Engine - Cooling System**

Coolant recovery system (std., opt., n.a.)	Standard			
Coolant fill location (rad., bottle)	Bottle			
Radiator cap relief valve pressure kPa (psi)	103 (15)			
Circulation thermostat	Type (choke, bypass)	Bypass		
	Starts to open at °C (°F)	82 (180)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GMP 1000 pump rpm	9		
	Number of pumps	One		
	Drive (V-belt, other)	Poly-V Belt		
	Bearing type	Double Row (Ball/Roller)		
	Impeller material	Sheet Metal		
	Housing material	Aluminum		
By-pass recirculation type (inter., ext.)	External			
Cooling System capacity	With heater - L (qt.)	9.1 L (9.6 qt.)		
	With air conditioner - L (qt.)	9.1 L (9.6 qt.)		
	Opt. equipment specify - L (qt.)	Not Applicable		
Water jackets full length of cyl. (yes, no)	Yes			
Water all around cylinder (yes, no)	Yes			
Water jackets open at head face (yes, no)	Yes			
Radiator core	Std., A/C, HD	Standard or A/C + Manual    Standard or A/C + Automatic		
	Type (cross-flow, etc.)	Cross-Flow		
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin/Brazed Aluminum		
	Material, mass kg (wgt., lbs.)	2.38 kg (5.2lbs) Manual	3.23 kg (7.1lbs)Automatic	
	Width	660 mm (25.9 in)		
	Height	383 mm (15.1 in)		
	Thickness	16 mm (.63 in)		
	Fins per inch	20	20	
Radiator end tank material	Plastic			
Fan	Std., elec., opt.	Electric	Electric, A/C	
	Number of blades & type (flex, solid, material)	6 Solid Plastic	7, Solid Plastic	
	Number & location (front, rear of radiator)	1 Rear	1 Rear	
	Diameter & projected width	316 (12.4)	371 (14.6)	
	Ratio (fan to crankshaft rev.)	Not Applicable		
	Fan cutout type	ECM Controlled		
	Drive type (direct, remote)	Direct-Electric Motor		
	RPM at idle (elec.)	1800		
	Motor rating (wattage/elec.)	100 Watts	150 Watts	
	Motor switch (type & location/elec.)	Engine Block		
	Switch point (temp./pressure/elec.)	On At 106° Deg C, Off At 103° C		
	Fan shroud (material)	Plastic	Plastic	

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.4 LITER L4  
 LD9

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard		
Coolant fill location (rad., bottle)		Bottle		
Radiator cap relief valve pressure kPa (psi)		103 (15)		
Circulation thermostat	Type (choke, bypass)	Bypass		
	Starts to open at °C (°F)	82 (180)		
Water pump	Type (centrifugal, other)	Centrifugal		
	GMP 1000 pump rpm	9		
	Number of pumps	One		
	Drive (V-belt, other)	Chain		
	Bearing type	Double Row (Ball)		
	Impeller material	Sheet Metal		
Housing material		Aluminum		
By-pass recirculation type (inter., ext.)		External		
Cooling System capacity	With heater - L (qt.)	9.4 L (10.0 qt.)		
	With air conditioner - L (qt.)	9.4 L (10.0 qt.)		
	Opt. equipment specify - L (qt.)	Not Applicable		
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Water jackets open at head face (yes, no)		Yes		
Radiator core	Std., A/C, HD	Standard or A/C + Manual    Standard or A/C + Automatic		
	Type (cross-flow, etc.)	Cross -Flow		
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin/Brazed Aluminum		
	Material, mass kg (wgt., lbs.)	2.38 kg (5.2 lbs) Manual	3.23 kg (7.1 lbs) Automatic	
	Width	660 mm (25.9 in)		
	Height	383 mm (15.1 in)		
	Thickness	16 mm (.63 in)		
Fins per inch		20	20	
Radiator end tank material		Plastic		
Fan	Std., elec., opt.	Electric	Electric/C	
	Number of blades & type (flex, solid, material)	6 Solid Plastic	7, Solid Plastic	
	Number & location (front, rear of radiator)	1 Rear	1 Rear	
	Diameter & projected width	316 (12.4)	371(14.6)	
	Ratio (fan to crankshaft rev.)	Not Applicable		
	Fan cutout type	ECM Controlled		
	Drive type (direct, remote)	Direct-Electric Motor		
	RPM at idle (elec.)	1800		
	Motor rating (wattage/elec.)	100 Watts	150 Watts	
	Motor switch (type & location/elec.)	Engine Block		
	Switch point (temp./pressure/elec.)	On At 106° Deg C, Off At 103° C		
Fan shroud (material)		Plastic	Plastic	

**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.2 LITER L4  
 LN2

Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		Delphi
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Ports (Four)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	300 (43.5)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	PCM Controlled
	Automatic	PCM Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		None
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Inline, Replaceable/Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	0-300 (0-43.5)
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	7.2 @ 300 (19 @ 43.5)

**Fuel Tank**

Capacity refill L (gallons)		56.8 L (15.0 gal.)
Location (describe)		Rear Center Underside, R. H. Rear Quarter Panel
Attachment		Underbody Strap
Material & Mass kg. (weight lbs.)		Steel / 9.7 kg (Integrated Tank Asm)
Filler pipe	Location & material	Right Rear Quarter Panel - Steel
	Connection to tank	Hoses
Fuel line (material)		Steel / Multi-Layer Nylon 12
Fuel hose (material)		Rubber
Return line (material)		Steel / Multi-Layer Nylon 12
Vapor line (material)		Steel / Nylon 12
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		



Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.4 LITER L4
Engine Code	LD9

Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		Delphi
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Ports (Four)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	300 (43.5)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	PCM Controlled
	Automatic	PCM Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		Not Applicable
Air cleaner type		Replacement Paper Element
Fuel filter (type/location)		Inline, Replaceable/Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	0-300 (0-43.5)
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	72 @ 300 (19 @ 43.5)

Fuel Tank

Capacity refill L (gallons)		56.7 L (15.0 gal)
Location (describe)		Rear Center Underside, R.H. Rear Quarter Panel
Attachment		Underbody Strap
Material & Mass kg. (weight lbs.)		Steel / 9.7 kg (Integrated Tank Asm)
Filler pipe	Location & material	Right Rear Quarter Panel - Steel
	Connection to tank	Hoses
Fuel line (material)		Steel/ Multi-Layer Nylon 12
Fuel hose (material)		Rubber
Return line (material)		Steel/ Multi-Layer Nylon 12
Vapor line (material)		Steel/ Nylon 12
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.2 LITER L4  
 LN2

Vehicle Emission Control

Type (air injection, engine modifications, other)		See Below		
Exhaust Emission Control	Air injection	Pump or pulse	Not Applicable	
		Driven by	Not Applicable	
		Air distribution (head, manifold, etc.)	Not Applicable	
		Point of entry	Not Applicable	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow	
		Exhaust source	Exhaust Manifold	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold	
	Catalytic Converter	Type	Three Way Monolith	
		Number of	One	
		Location(s)	Under Floor	
Volume L (in <sup>3</sup> )		1.8 (110)		
Substrate type		Ceramic		
	Noble metal type	Platinum, Palladium, Rhodium		
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Positive Vent System w/ Orifice Metering to Intake	
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
	Discharges to (intake manifold, other)		Intake Manifold	
	Air inlet (breather cap, other)		Not Applicable	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel Tank	Canister	
		Carburetor	Not Applicable	
	Vapor storage provision		Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator) , Muffler volume (liters), Material & Mass kg. (weight lbs.)		409 Aluminized Stainless Steel Muffler ASM = 9.7 kg (21.3 lbs) 1, Reverse Flow
Resonator no., type, & volume (liters)		None
Exhaust pipe	Branch o.d., wall thickness	None
	Main o.d., wall thickness	41.3, 1.42 mm (1.6, .056 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel 3.64 kg (8.02 lbs)
Intermediate pipe	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
	Material & Mass kg. (weight lbs.)	Stainless Steel 409 (MASS See Muffler ASM)
Tail pipe	o.d. & wall thickness	44.5 x 1.1 mm (1.75 x .043 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel 409 Aluminized (MASS See Muffler ASM)

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.4 LITER L4  
 LD9

Vehicle Emission Control

Type (air injection, engine modifications, other)		See Below	
Exhaust Emission Control	Air injection	Pump or pulse	Not Applicable
		Driven by	Not Applicable
		Air distribution (head, manifold, etc.)	Not Applicable
		Point of entry	Not Applicable
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled Flow
		Exhaust source	Exhaust Manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
	Catalytic Converter	Type	Three Way Monolith
		Number of	One
		Locations(s)	Under floor
Volume L (in <sup>3</sup> )		2.67 (163)	
Substrate type		Ceramic	
	Noble metal type	Platinum, Rhodium	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Positive Vent System w/ Orifice Metering to Intake
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		Intake Manifold
	Air inlet (breather cap, other)		Not Applicable
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel Tank	Canister
		Carburetor	Not Applicable
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

Engine - Exhaust System

Type (single, single with cross-over, dual, other)	Single w/ Dual Exhaust Pipes	
⊗ Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.)	409 Aluminized Stainless Steel Muffler ASM = 10.9 kg (24.0 lbs) 1, Reverse Flow	
⊗ Resonator no., type, & volume (liters)	1, Bottle w/Baffle	
Exhaust pipe	Branch o.d., wall thickness	None
	Main o.d., wall thickness	44.45, 1.90 mm (1.75, .075 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel
Intermediate pipe	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel - 409 (MASS see Muffler ASM)
Tail pipe	o.d. & wall thickness	50.8 x 1.1 mm (2.0 x .043 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel - 409 Aluminized (MASS See Muffler ASM)

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.2 LITER L4 LN2
Engine Code	

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Isuzu/Japan (MK7) Std.
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	GM Powertrain Group/USA (MD9) Opt
Automatic overdrive (manufacturer/country)	GM Powertrain Group/USA (MN4) Opt

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.91
	2nd	2.18
	3rd	1.45
	4th	1.03
	5th	0.74
	6th	Not Applicable
	Reverse	3.58
Synchronous meshing (specify gears)		1-5
Shift lever location		Floor
Trans. case material & mass kg. (lbs.)*		Aluminum 36.5 (80.5)
Lubricant	Capacity L (pt.)	1.9 (4.0)
	Type recommended	Synchromesh Transmission Fluid

Clutch (Manual Transmission)

Clutch manufacturer		Daikin
Clutch type (dry, wet; single, multiple disc)		Dry Disc, Single
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	133.4 (30.0)
	Released	115.6 (26.0)
Assist (spring, power/percent, nominal)		Over Center Spring
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		5688 (1279)
Clutch facing	Facing mfr. & material coding	Valeo F202
	Facing material & construction	F202
	Rivets per facing	16
	Outside x inside dia. (nominal)	215.0 x 150.0 (8.46 x 5.91)
	Total eff. area cm <sup>2</sup> (in. <sup>2</sup> )	186.3 (28.8)
	Thickness (pressure plate side/fly wheel side)	3.5 (.14) Pressure Plate Side, 3.2 (.13) Flywheel Side
	Rivet depth (pressure plate side/fly wheel side)	1.3 (0.05)/ 1.2 (0.05)
	Engagement cushion method	Driven Plate Wave Spoke Springs
Release bearing type & method lub.		Self Centering, Angular Contact Ball Bearing - Prepacked & Sealed
Torsional damping method, springs, hysteresis		Coil Springs With Non - Metal Friction Control

\* Includes shift linkage, lubricant, and clutch housing. If other specify.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.4 LITER L4
Engine Code	LD9

Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Isuzu/ Japan (MJ1) Std.
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	Not Applicable
Automatic overdrive (manufacturer/country)	GM Powertrain Group/Canada (MN4) Opt

Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.73
	2nd	2.18
	3rd	1.33
	4th	.92
	5th	.74
	6th	Not Applicable
	Reverse	3.58
Synchronous meshing (specify gears)		1-5
Shift lever location		Floor
Trans. case material & mass kg. (lbs.)*		Aluminum 36.5 (80.5)
Lubricant	Capacity L (pt.)	1.9 (4.0)
	Type recommended	Synchromesh Transmission Fluid

Clutch (Manual Transmission)

Clutch manufacturer		Daikin
Clutch type (dry, wet; single, multiple disc)		Dry Disc Single
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	133.4 (30.0)
	Released	115.6 (26.0)
Assist (spring, power/percent, nominal)		Over Center Spring
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		5888 1279
Clutch facing	Facing mfg. & material coding	Valoe F202
	Facing material & construction	F202
	Rivets per facing	16
	Outside x inside dia. (nominal)	225.0 x 150.0
	Total eff. area cm <sup>2</sup> (in. <sup>2</sup> )	221
	Thickness (pressure plate side/fly wheel side)	3.5 (.14) Pressure Plate Side, 3.2 (.13) Flywheel Side
	Rivet depth (pressure plate side/fly wheel side)	1.3 (.05)/ 1.2 (.05)
Engagement cushion method		Driven Plate Wave Spoke Springs
Release bearing type & method lub.		Self Centering Angular Contact Ball Prepacked & Sealed
Torsional damping method, springs, hysteresis		Coil Springs with Non-Metal Friction Control

\* Includes shift linkage, lubricant, and clutch housing. If other specify.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.2 LITER L4
Engine Code	LN2

Automatic Transmission/Transaxle

Trade Name	4T40	
Type and special features (describe)	4 Speed, Front Wheel Drive, Electronically Controlled Automatic Transaxle with Viscous Torque Converter Clutch	
Shift mechanics	Hydraulic Clutches / Electronic Controls	
Gear selector	Location (column, floor, other)	Floor
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	Yes, Brake Interlock
Gear ratios	1st	2.96
	2nd	1.63
	3rd	1.00
	4th	0.68
	5th	Not Applicable
	6th	Not Applicable
	Reverse	2.13
Final drive ratio	3.05, Effective Final Drive Ratio: 3.63	
Max. upshift vehicle speed - drive range km/h (mph)	3-4: 144 (90)	
Max. upshift engine speed RPM	5900	
Max. kickdown speed - drive range km/h (mph)	4-3: 101 (85)	
Min. overdrive speed km/h (mph)	48 (30)	
Torque converter	Type	Electronically Controlled Converter Clutch
	Torus design	Yes
	Number of elements	Three
	Max. ratio at stall	2.48
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm
Capacity factor "K"	203	
Pump type	Variable Displacement Vane	
Lubricant	Capacity refill L (pt.)	Bottom Pan Removal: 7 (14.8), Complete Overhaul: 10 (21.1)
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)	Standard, Integral Part w/ Radiator, Liquid	
Transmission mass kg (lbs.) & case material**	74.7 (164.7), Aluminum	

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

\* Input speed  $\propto \sqrt{\text{torque}}$

\*\* Dry weight including torque converter. If other, specify.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description 2.4 LITER L4  
 Engine Code LD9

Automatic Transmission/Transaxle

Trade Name		3T40E
Type and special features (describe)		Three Speed, Front Wheel Drive, Automatic Transaxle with Torque Converter Clutch
Shift mechanics		Hydraulic
Gear selector	Location (column, floor, other)	Floor
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	Yes
Gear ratios	1st	2.84
	2nd	1.60
	3rd	1.00 (Converter Clutch Engagement)
	4th	Not Applicable
	5th	Not Applicable
	6th	Not Applicable
	Reverse	2.07
Final drive ratio		2.84, Effective Final Drive: 3.18
Max. upshift vehicle speed - drive range km/h (mph)		122 (76)
Max. upshift engine speed RPM		5800
Max. kickdown speed - drive range km/h (mph)		3-2: 118 (74)
Min. overdrive speed km/h (mph)		Not Applicable
Torque converter	Type	Lock-Up
	Torus design	Yes
	Number of elements	Three
	Max. ratio at stall	2.48
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm
Capacity factor "K"		203
Pump type		Variable Displacement Vane
Lubricant	Capacity refill L (pt.)	8.5 (17.85) Dry Transmission
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral Part of Radiator, Liquid
Transmission mass kg (lbs.) & case material**		65.7 (144.8), Aluminum

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

\* Input speed +  $\sqrt{\text{torque}}$   
 \*\* Dry weight including torque converter. If other, specify.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.4 LITER L4
Engine Code	LD9

Automatic Transmission/Transaxle

Trade Name	4T40E	
Type and special features (describe)	Four Speed, Front Wheel Drive, Electronically Controlled, Automatic Overdrive Transaxle with Torque Converter Clutch	
Shift mechanics	Hydraulic Clutches/ Electronic Controls	
Gear selector	Location (column, floor, other)	Floor
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	Yes
Gear ratios	1st	2.96
	2nd	1.63
	3rd	1.0
	4th	.68
	5th	Not Applicable
	6th	Not Applicable
	Reverse	2.13
Final drive ratio		3.29, Effective Final Drive: 3.91
Max. upshift vehicle speed - drive range km/h (mph)		3-4: 160 (100)
Max. upshift engine speed RPM		6400
Max. kickdown speed - drive range km/h (mph)		139 (87)
Min. overdrive speed km/h (mph)		48 (30)
Torque converter	Type	Electronically Controlled Converter Clutch
	Torus design	Yes
	Number of elements	Three
	Max. ratio at stall	2.48
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm
Capacity factor "K"		203
Pump type		Variable Displacement Vane
Lubricant	Capacity refill L (pt.)	Bottom Pan Service: 7 (14.8), Complete Overhaul: 10 (21.1)
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral w/ Radiator, Liquid
Transmission mass kg (lbs) & case material		74.7 (164.7), Aluminum

All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

\* Input speed +  $\sqrt{\text{torque}}$   
 \*\* Dry weight including torque converter. If other, specify.



**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (#) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description	2.2 LITER L4
Engine Code	LN2

**Axle Ratio and Tooth Combinations** (See 'Power Teams' for axle ratio usage)

Effective final drive ratio (or overall top gear ratio)	See Page 2
Transfer ratio and method (chain, gear, etc.)	
Front drive unit	Ring gear o.d.
	No. of teeth
	Pinion Ring gear

**Front Drive Unit**

Description (integral to trans., etc.)	Planetary Final Drive - Integral with Transmission	
Limited slip differential (type)	Not Applicable	
Drive pinion	Type	Not Applicable
	Offset	Not Applicable
No. of differential pinions	Two	
Pinion / differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	Not Applicable
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	See Automatic Transmission Spec.
	Type recommended	See Automatic Transmission Spec.

**Axle Shafts - Front Wheel Drive**

Manufacturer and number used		Delphi Saginaw Automotive Engineering		
Type (straight, solid bar, tubular, etc.)	Left	Straight - Solid		
	Right	Straight - Solid		
Outer diam. x length* x wall thickness	Manual Transaxle	Left	27.1 x 330.0 mm	
		Right	27.1 x 694.6 mm	
	Automatic transaxle	Left	27.1 x 313.0 mm.	
		Right	27.1 x 313.0 mm.	
	Optional transaxle	Left		
		Right		
Slip yoke	Type			
	Number of teeth			
	Spline o.d.			
Universal joints	Make and mfg. no.	Inner	Delphi Saginaw	
		Outer	Delphi Saginaw	
	Number used	Inboard and Outboard on Each Halfshaft Assembly		
	Type, size, plunge	Inner	Free Motion - 61.0 Stroke	
		Outer	Rzeppa - Fixed Center	
	Attach (u-bolt, clamp, etc.)	Inboard Joint - Retaining Ring/ Outboard Joint - Washer and Nut		
Bearing	Type (plain, anti-friction)	Inner - Ball and Roller Outer - Ball		
	Lubrication (fitting, prepack)	Prepacked		
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm - Upper Mac Pherson		
Torque taken through (torque tube, arms or springs)		Engine Mounting System		

\* Centerline to centerline of universal joints, or to centerline of attachment.

**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

**METRIC (U.S. Customary)**

Engine Description 2.4 LITER L4  
 Engine Code LD9

**Axle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage)**

Effective final drive ratio (or overall top gear ratio)		See Page 2
Transfer ratio and method (chain, gear, etc.)		
Front drive unit	Ring gear o.d.	
	No. of teeth	Pinion
		Ring gear

**Front Drive Unit**

Description (integral to trans., etc.)		Planetary Final Drive - Integral with Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	Not Applicable
	Offset	Not Applicable
No. of differential pinions		Two
Pinion / differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	Not Applicable
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	See Transmission Spec.
	Type recommended	See Transmission Spec

**Axle Shafts - Front Wheel Drive**

Manufacturer and number used		Delphi Saginaw Automotive Engineering		
Type (straight, solid bar, tubular, etc.)	Left	Straight - Solid		
	Right	Straight - Solid		
Outer diam. x length* x wall thickness	Manual Transaxle	Left	23.9 x 339.2 mm	
		Right	23.9 x 694.6 mm	
	Automatic transaxle	Left	MN4: 23.9 x 319.2 mm	MD9: 23.9 x 319.2 mm
		Right	23.9 x 319.2 mm 23.9 x 389.2 mm	
	Optional transaxle	Left		
		Right		
Slip yoke	Type			
	Number of teeth			
	Spline o.d.			
Universal joints	Make and mfg. no.	Inner	Delphi Saginaw	
		Outer	Delphi Saginaw	
	Number used		Inboard & Outboard On Each Half Shaft Assembly	
	Type, size, plunge	Inner	Tripot - 61.0mm Stroke	Tripot - 61.0 mm Stroke
		Outer	Rzeppa - Fixed Center	
	Attach (u-bolt, clamp, etc.)		Inboard Joint - Retaining Ring / Outboard Joint - Washer & Nut	
	Bearing	Type (plain, anti-friction)	Inner - Ball & Roller Outer - Ball	
Lubrication (fitting, prepack)		Prepacked		
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm - Upper Mac Pherson		
Torque taken through (torque tube, arms or springs)		Engine Mounting System		

\* Centerline to centerline of universal joints, or to centerline of attachment.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 3-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description 2.4 LITER L4  
 Engine Code LD9

**Axle Ratio and Tooth Combinations** (See 'Power Teams' for axle ratio usage)

Axle ratio (or overall top gear ratio)		
Ring gear o.d.		
No. of teeth	Pinion	
	Ring gear	

**Rear Axle Unit** (NOT APPLICABLE)

Description		
Limited slip differential (type)		
Drive pinion	Type	
	Offset	
No. of differential pinions		
Pinion / differential	Adjustment (shim, etc.)	
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	
	Type recommended	

**Propeller Shaft - Rear Wheel Drive** (NOT APPLICABLE)

Manufacturer		
Type (straight tube, tube-in-tube, internal-external damper, etc.)		
Outer diam. x length* x wall thickness	Manual 4-speed transmission	
	Manual 5-speed transmission	
	Manual 6-speed transmission	
	Overdrive	
Intermediate bearing	Automatic transmission	
	Type (plain, anti-friction)	
Lubrication (fitting, prepack)		
Slip yoke	Type	
	Number of teeth	
	Spline o.d.	
Universal joints	Make and mfg. no.	Front
		Rear
	Number used	
	Type (ball and trunnion, cross)	
	Rear attach (u-bolt, clamp, etc.)	
	Bearing	Type (plain, anti-friction)
Lubrication (fitting, prepack)		
Drive taken through (torque tube, arms or springs)		
Torque taken through (torque tube, arms or springs)		

\* Centerline to centerline of universal joints, or to centerline of rear attachment.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Description 2.2 LITER L4  
 Engine Code LN2

**Axle Ratio and Tooth Combinations** (See 'Power Teams' for axle ratio usage)

Axle ratio (or overall top gear ratio)		
Ring gear o.d.		
No. of teeth	Pinion	
	Ring gear	

**Rear Axle Unit** (NOT APPLICABLE)

Description		
Limited slip differential (type)		
Drive pinion	Type	
	Offset	
No. of differential pinions		
Pinion / differential	Adjustment (shim, etc.)	
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	
	Type recommended	

**Propeller Shaft - Rear Wheel Drive** (NOT APPLICABLE)

Manufacturer		
Type (straight tube, tube-in-tube, internal-external damper, etc.)		
Outer diam. x length* x wall thickness	Manual 4-speed transmission	
	Manual 5-speed transmission	
	Manual 6-speed transmission	
	Overdrive	
Automatic transmission		
Intermediate bearing	Type (plain, anti-friction)	
	Lubrication (fitting, prepack)	
Slip yoke	Type	
	Number of teeth	
	Spline o.d.	
Universal joints	Make and mfg. no.	Front
		Rear
	Number used	
	Type (ball and trunnion, cross)	
	Rear attach (u-bolt, clamp, etc.)	
	Bearing	Type (plain, anti-friction)
Lubrication (fitting, prepack)		
Drive taken through (torque tube, arms or springs)		
Torque taken through (torque tube, arms or springs)		

\* Centerline to centerline of universal joints, or to centerline of rear attachment.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)  
 Model Code/Description And/Or  
 Engine Code/Description

ALL

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available	FE $\emptyset$ Suspension Standard on Base and LS models	
	Manual/automatic control	N/A	
	Type (air/hydraulic)	N/A	
	Primary/assist spring	N/A	
	Rear only/4 wheel leveling	N/A	
	Single/dual rate spring	N/A	
	Single/dual ride heights	N/A	
Shock absorber damping controls	Provision for jacking	Body Jack & Pads On Rockers	
	Standard/option/not available	N/A	
	Manual/automatic control	N/A	
	Number of damping rates	N/A	
	Type of actuation (manual/ electric motor/air, etc.)	N/A	
	Sensors	Lateral acceleration	N/A
		Deceleration	N/A
Acceleration		N/A	
Road surface		N/A	
Shock absorber (front & rear)	Type	Front - MacPherson Strut; Rear - Double Acting Hydraulic	
	Make	Delphi Chassis Systems	
	Piston diameter	Front: 32 (1.26) Rear: 25 (.98)	
	Rod diameter	Front 22 (.87) Rear: 13 (.51)	

Suspension - Front

Type and description		MacPherson Strut With Coil Spring
Travel	Full jounce (define load condition)	85 (3.2) (Max Effective From Curb)
	Full rebound	83 (3.1) (Max Effective From Curb)
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Insulators (type & material)	Top & Bottom - Rubber
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Spring Computer Selected - Varies With Option Content Design Hgt      Body I.D.      Bar dia Range      Bar Length Range 191.6 mm (7.5)    88-123.5 mm (4.8)    13.5 0 14.2 mm (.55)    2510-2630 mm (103.5)
	Spring rate N/mm (lb./in.)	27 mm (1.06) & 29 mm (1.14) Base      31 mm (1.22) Uplevel
	Rate at wheel N/mm (lb./in.)	31 (1.2) N/mm
Stabilizer	Type (link, linkless, frameless)	Link
	Material & O.D. bar/tube, wall thickness	Steel: 18.0 mm (0.74) Base      22.0 mm (0.79) Uplevel

Suspension - Rear

Type and description		Trailing Tubular Control Arms With Twist Beam
Travel	Full jounce (define load condition)	110 mm (4.3) From Curb
	Full rebound	78 mm (3.1) From Curb
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Spring Computer Selected - Varies With Option Content Design Hgt      Body I.D.      Bar dia Range      Bar Length Range 191.8 mm (7.5)    105 mm (4.1)      11.4-12.6 mm (.49)    2500-2700 mm (106.2)
	Spring rate N/mm (lb./in.)	19 (.74) N/mm & 21 (.82) N/mm (Base)
	Rate at wheel N/mm (lb./in.)	22 (.86) N/mm (Base)
	Insulators (type & material)	Top - Rubber
	If leaf	No. of leaves      Shackles (comp. or tens.) --      --
Stabilizer	Type (link, linkless, frameless)	Linkless
	Material & O.D. bar/tube, wall thickness	None (Base)      18MM Solid (Uplevel)
Track bar (type)		--

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

ALL

Brakes - Service

Description		Power Assisted Hydraulic Brakes (JM4)		
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Standard - Disc		
	Rear (disc or drum)	Standard - Drum		
Valving type (proportion, delay, metering, other)		Proportioning, Diagonal Split Circuit		
Power brake (std., opt., n.a.)		Standard		
Booster type (remote, integral, vac., hyd., etc.)		Tandem Vacuum		
Vacuum	Source (inline, pump, etc.)	Inline		
	Reservoir (volume in. <sup>3</sup> )	None		
	Pump-type (elec., gear or belt driven)	Not Applicable		
Traction assist	Operational speed range	All Speed Ranges		
	Type (engine or brake intervention)	Powertrain Management		
Antilock device	Front/rear (std., opt., n.a.)	Standard		
	Manufacturer	Delphi Chassis Division - ABS VI		
	Type (electronic, mech.)	Electronic		
	Number sensors or circuits	4		
	Number antilock hydraulic circuits	3		
	Integral or add-on system	Add On		
	Yaw control (yes, no)	Yes		
Hyd. power source (elec., vac., mtr., pwr., strg.)		Electric Motor For Each Circuit		
Effective area cm <sup>2</sup> (in. <sup>2</sup> ) *		Front - 204 (31.7)	Rear - 324.1 (50.2)	
Gross Lining area cm <sup>2</sup> (in. <sup>2</sup> ) ** (F/R)		Front - 204 (31.7)	Rear - 324.1 (50.2)	
Swept area cm <sup>2</sup> (in. <sup>2</sup> ) *** (F/R)		Front - 1175 (182.2)	Rear - 556 (86.2)	
Rotor	Outer working diameter	F/R	Front - 259.5 (10.2)	
	Inner working diameter	F/R	Front - 149.6 (5.9)	
	Thickness	F/R	Front - 20 (.79)	
	Material & type (vented/solid)	F/R	Front Vented Cast Iron	
Drum	Diameter & width	F/R	Rear - 200 x 45 mm (7.87 x 1.77 in.)	
	Type and material	F/R	Cast Iron	
Wheel cylinder bore		Front - 57 mm (2.24 in.)	Rear - 17.5 (.69 in.)	
Master cylinder	Bore/stroke	F/R	Bore - 22.2 mm (.874 in.) Stroke - 35.7 mm (1.41 in.)	
Pedal arc ratio		3.00:1		
Line press. at 445 N (100 lb.) pedal load [kPa (psi)]		1600 PSI Max		
Lining clearance		F/R	Both - Self Adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Integrally Molded - Inboard And Outboard
		Rivet Size		Not Applicable
		Manufacturer		Delphi Chassis Division
		Lining code *****		130 EE
		Material		Semi-Metallic
		••	Primary or out-board	124 x 46 x 8.68mm (4.88 x 1.81 x 0.34 in)
		••	Secondary or in-board	124 x 46 x 9.68mm (4.88 x 1.81 x 0.38 in)
	Shoe thickness (no lining)		4.85mm (0.19 in)	
	Rear wheel	Bonded or riveted (rvts/seg.)		Riveted
		Manufacturer		Delphi Chassis Division
		Lining code *****		235 FE
		Material		Organic
		••	Primary or out-board	167.9 x 44.2 x 6.6 mm (6.602 x 1.728 x .236 in.)
		••	Secondary or in-board	196.8 x 44.2 x 7.2 mm (7.638 x 1.728 .28 in.)
Shoe thickness (no lining)		2.75 mm (.11 in.)		

\*Excludes rivet holes, grooves, chamfers, etc.

\*\*Includes rivet holes, grooves, chamfers, etc.

\*\*\*Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)  
 (Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

\*\*\*\*Size for drum brakes includes length x width x thickness.

\*\*\*\*\*Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

ALL

Tires And Wheels (Standard)

Tires	Size (service description)		P195/70R14
	Type (bias, radial, steel, nylon, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	210 kPa (30 psi)
		Rear kPa (psi)	210 kPa (30 psi)
	Rev./mile at 70 km/h (45 mph)		842
Wheels	Type & material		Stamped/Steel
	Rim (size & flange type)		14 x 6J
	Wheel offset		47
	Attachment	Type (bolt or stud & nut)	Stud
		Circle diameter	100 mm
Number & size		5-12 mm	
Spare	Tire and wheel		T115/70D14 Wheel Diameter 14 x 4, Inflation 420 kPa (60 psi)
	Storage position & location (describe)		Under Deck Of Luggage Compartment

Tires And Wheels (Optional)

Tire size (service description)		P195/65R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		15 x 6J x 47
Tire size (service description)		P205/55R16 (1JF37 only)
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		16 x 6J x 47
Tire size (service description)		P195/65R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Stamped/Steel
Rim (size, flange type and offset)		15 x 6J x 47
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel size		
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes - Parking

Type of control		Hand Lever Asm - Self Adjust
Location of control		Between Front Seats
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	Not Applicable
	Drum diameter	--
	Lining size (length x width x thickness)	--

Specifications

Vehicle Line CAVALIER

Model Year 1998

Issued 9-97

Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description And/Or  
Engine Code/Description

ALL

Steering

Manual (std., opt., n.a.)		Not Applicable	
Power (std., opt., n.a.)		Standard	
Speed-sensitive (std., opt., n.a.)			
4-wheel steering (std., opt., n.a.)			
Adjustable steering wheel/column (tilt, telescope, other)	Type	N33 Tilt - Optional (Standard on 1JF37)	
	Manufacturer	Delphi Saginaw Steering System	
	(std., opt., n.a.)	Optional	
Wheel diameter** (W9) SAE J1100	Manual	None	
	Power	N/A	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	N/A
		Curb to curb (l. & r.)	10.85 (35.6)
	Inside rear	Wall to wall (l. & r.)	N/A
		Curb to curb (l. & r.)	N/A
Scrub Radius*		-4.23 (14" Tires)	
Manual	Gear	Type	Not Applicable
		Manufacturer	N/A
		Gear	N/A
		Ratios Overall	N/A
	No. wheel turns (stop to stop)	N/A	
Power	Type (coaxial, elec. hyd., etc.)		Hydraulic
	Manufacturer		Delphi Saginaw Steering Systems
	Gear	Type	Rack & Pinion
		Ratios Gear	--
	Pump (drive)		Belt Off Crankshaft Pulley (LN2)      Direct Drive Off Crankshaft (LD9)
	No. wheel turns (stop to stop)		2.6 Base      2.8 (Uplevel)
Linkage	Type		End Take - Off Tie Rods, Rack & pinion
	Location (front or rear of wheels, other)		Rear
	Tie rods (one or two)		2
Steering axis	Kingpin inclination (deg.)		12.0°
	Bearings (type)	Upper	Ball Bearings
		Lower	Ball Joint
		Thrust	Incorporated in Upper Bearing
Steering spindle/knuckle & joint type		MacPherson Strut	

\* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

\*\* See Page 23.



AAMA Specifications

Vehicle Line CAVALIER

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METRIC (U.S. Customary)

Model Code/Description And/Or  
Engine Code/Description

ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	Not Adjustable
		Camber (deg.)	-.2° (+/-) .7 Cross Car Must Be Within 1.0
		Toe-in outside track mm (in.)	.10° (+/-) .20° Sum (0 mm (+/-) 1.5 mm) 0° +/- .2 (LD2/FE2 & Convertible)
	Service reset*	Caster (deg.)	Not Adjustable
		Camber (deg.)	-.2° (+/-) .7 Cross Car Must Be Within 1.0
		Toe-in mm (in.)	.10° (+/-) .20° Sum (0 mm (+/-) 1.5 mm) 0° +/- .2 (LD2/FE2 & Convertible)
Periodic M.V. in- spection	Caster (deg.)	Not Adjustable	
	Camber (deg.)	Not Adjustable	
	Toe-in mm (in.)	Not Adjustable	
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-.25° +/- .25°
		Toe-in outside track mm (in.)	.20° +/- .35°
	Service reset*	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable
	Periodic M.V. insp.	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable

\* Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment Gage

Speedometer	Type (analog, digital, std., opt.)	Analog Electric (Standard)
	Trip odometer (std., opt., n.a.)	Standard
Head-up display	Standard, optional, not available	Not Available
	Type	Secondary, opto-electronic
	Speedometer	Digital
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges
	Brightness control	Day / night mode, adjustable
EGR maintenance indicator		Not Available
Charge indicator	Type	Tell - Tale Warning Lamp
	Warning device (light, audible)	Lamp
Temperature indicator	Type	Gauge
	Warning device (light, audible)	Ck Gauge Light
Oil pressure indicator	Type	Tell - Tale Warning Lamp
	Warning device (light, audible)	Lamp
Fuel indicator	Type	Gauge
	Warning device (light, audible)	Ck Gauge Tell - Tale
Windshield wiper	Type (standard)	Electric 2-Speed w/ Fixed Delay Pulse
	Type (optional)	Pulse Wiper Variable Delay (CD4)
	Blade length	6890.0 (1068.0) CPE
	Swept area cm <sup>2</sup> (in. <sup>2</sup> )	6856.9 (1062.8) SDN
Windshield washer	Type (standard)	Electric Pump MTd. On Reservoir Bottle, Wet Arm
	Type (optional)	None
	Fluid level indicator (light, audible)	None
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available
Horn	Type	Electro-Mechanical (Air Column)
	Number used	1 (F Note)
Other		(UH7) Base Cluster Standard (UH8) Uplevel Gage Cluster Includes Tachometer, PRNDL Tell Tale Includes Parking Brake And Brake Failure, Fasten Belt, Upshift, Check Engine, Low Coolant, High Beam, Left And Right Turn, ABS, Airbag, DRL, and Theft System, Check Gages, ETS Off, Low Trac, Oil Pressure, Volts

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Code/Description

2.2 LITER L4  
 LN2

Electrical - Supply System

Battery	Manufacturer	Delphi - E	
	Model, std., (opt.)	Standard - 19000670	Optional - 19000672
	Voltage	12	
	Amps at 0° F. cold crank	525	600
	Minutes-reserve capacity	90	
	Amps/hrs.-20 hr. rate	54	
	Location	Under Hood Front	
Alternator	Manufacturer	Delphi	
	Rating (idle/max. rpm)	42/105	
	Ratio (alt. crank/rev.)	2.64:1	
	Output at idle (rpm, park)	38 Amps @ 93°C	
	Optional (type & rating)	Not Applicable	
Regulator	Type	Integral with Alternator	

Electrical - Starting System

Motor	Manufacturer	Delco Remy America	
	Current drain _____ °C(°F)	400 Amps	
	Power rating kw (hp)	1.3 (1.74)	
Motor drive	Engagement type	Solenoid Actuated, Positive Engagement	
	Pinion engages from (front, rear)	Front	

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Standard		
	Other (specify)	Not Applicable		
Coil	Manufacturer	Delco Remy America		
	Model	110400		
	Current	Engine stopped - A	Less Than 500 ma	
		Engine idling - A	Less Than One Ampre	
Spark plug	Manufacturer	Champion		
	Model	41-942		
	Thread (mm)	14 mm		
	Tightening torque N-m (lb. ft.)	18 (13)		
	Gap	1.5		
Distributor	Number per cylinder	One		
	Manufacturer	Not Applicable		
	Model	Not Applicable		

Electrical - Suppression

Locations & type	Not Available
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Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Engine Code/Description

2.4 LITER L4  
 LD9

Electrical - Supply System

Battery	Manufacturer	Delphi - E
	Model, std., (opt.)	Standard - 19000672
	Voltage	12
	Amps at 0° F. cold crank	600
	Minutes-reserve capacity	90
	Amps/hrs.-20 hr. rate	54
	Location	Underhood - Front
Alternator	Manufacturer	Delphi
	Rating (idle/max. rpm)	42/105
	Ratio (alt. crank/rev.)	2.77
	Output at idle (rpm, park)	40 Amps @ 93°C
	Optional (type & rating)	Not Applicable
Regulator	Type	Integral with Alternator

Electrical - Starting System

Motor	Manufacturer	Delco Remy America
	Current drain _____ °C(°F)	400 Amps
	Power rating kw (hp)	1.6 (2.1)
Motor drive	Engagement type	Solenoid Actuated, Positive Engagement
	Pinion engages from (front, rear)	Front

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Standard	
	Other (specify)	Not Applicable	
Coil	Manufacturer	Delphi	
	Model	1104014	
	Current	Engine stopped - A	Less Than 500 mA
		Engine idling - A	Less Than One Ampre
Spark plug	Manufacturer	Delphi	
	Model	41-942	
	Thread (mm)	14 mm	
	Tightening torque N-m (lb. ft.)	18.0 (13)	
	Gap	1.5	
	Number per cylinder	One	
Distributor	Manufacturer	Not Applicable	
	Model	Not Applicable	

Electrical - Suppression

Locations & type	
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Specifications

Vehicle Line CAVALIER

Model Year 1998 Issued 3-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description

**Body**

ALL

Structure	Unitized Body Construction Including Front End Structure With Bolted - On Fenders And Hood
Bumper system front - rear	Bumper Fascias Are Attached To Steel Impact Bar And Guideflex Or EPP Foam Absorbers For Collision Energy Absorption. Meets 5 MPH Corporate Bumper Labeling Requirements
Anti-corrosion treatment	Metal Body Uses Double Side Galvanized Metal On All Exposed Metal Surfaces. The Paint Shop Process Includes Phosphate, ELPO, Sealers, Anti-Chip, Primers And Topcoat.

**Body - Miscellaneous Information**

Type of finish (lacquer, enamel, other)	High Solids Base Coat/Clear Coat Paint System	
Hood	Material & mass	Steel 224/SMC
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop Rod - Single Pivot Hinge
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Steel/Sedan 10.5 (.41) Coupe 10.5 (.41)
	Type (counterbalance, other)	Torque Rods On Rods On Coupe And Sedan
	Internal release control (elec., mech., n.a.)	Mechanical (Optional) (A59)
Hatchback lid	Material & mass	N/A
	Type (counterbalance, other)	N/A
	Internal release control (elec., mech., n.a.)	N/A
Tailgate	Material & mass	N/A
	Type (drop, lift, door)	N/A
	Internal release control (elec., mech., n.a.)	N/A
Vent window control (crank, friction, pivot, power)	Front	Not Applicable
	Rear	-
Window regulator type (cable, tape, flex drive, etc.)	Front	Cross Arm
	Rear	Single Arm
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Foam
	Rear	Foam
	3rd seat	Not Applicable
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Foam
	Rear	Foam
	3rd seat	Not Applicable

**Frame**

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Frame
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**Specifications**

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (#) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description

	ALL
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Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)		Lap/Shoulder Belt Combination	N/A	Lap/Shoulder Belt Combination
	Standard / Optional	Second seat	Lap/Shoulder Belt Combination	Lap Belt	Lap/Shoulder Belt Combination
		Third seat			
Passive	Type & description (air bag, motorized-2- point belt, fixed belt, knee bolster, manual-lap belt)	First seat	Air Bag/Knee Bolster		Air Bag/Knee Bolster
	Standard / Optional	Second seat			
		Third seat			
<b>Glass</b>		<b>SAE Ref.No.</b>	<b>37</b>	<b>67</b>	<b>69</b>
Windshield glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )		S1	10,940 cm <sup>2</sup>	10,940 cm <sup>2</sup>	11,400 cm <sup>2</sup>
Side glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> ) - total 2 sides		S2	11,144 cm <sup>2</sup>	10,262 cm <sup>2</sup>	11,684 cm <sup>2</sup>
Backlight glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )		S3	10,650 cm <sup>2</sup>	2887 cm <sup>2</sup>	8,873 cm <sup>2</sup>
Total glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )		S4	32,734 cm <sup>2</sup>	24,089 cm <sup>2</sup>	31,957 cm <sup>2</sup>
Windshield glass (type/thickness)			Curved-Laminated Float 5.4 mm	Curved-Laminated Float 5.4 mm	Curved-Laminated Float 5.4 mm
Side glass (type/thickness)			Curved-Tempered Float QTR WDO 3.5 mm Door Glass 4.0 mm	Curved-Tempered Float QTR WDO 5 mm Door Glass 5 mm	Curved-Laminated Float Door Glass 4.0 mm
Backlight glass (type/thickness)			Curved-Tempered Float 3.5 mm	Curved-Tempered Float 3.5 mm	Curved-Tempered Float 3.5 mm
Tinted (yes/no, location)			All Glass Tinted	All Glass Tinted	All Glass Tinted
Solar control (yes/no, coated/batched, location)					

**Headlamps**

Description (sealed beam, halogen, replaceable bulb, etc.)	Replaceable Bulb - 2 Lamps - 2 Bulbs Each
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	HB <sub>4</sub>
Quantity	2 (2 Bulbs per Car)
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB <sub>3</sub>
Quantity	2 (2 Bulbs per Car)

Specifications

Vehicle Line CAVALIER

Model Year 1998 Issued 9-97 Revised (●)

METRIC (U.S. Customary)

Engine Code/Description

ALL

Climate Control System

Air conditioning (std., opt., man., auto.)		Optional (Std on 1JF37)
Condenser	Type	Header Tube And Center
	Eff. face area (sq. mm.)	258,163.2
	Fins per inch	2.5 K
Evaporator	Type	3-5-5 Parallel Rib S Flow
	Eff. face area (sq. mm.)	45,050
	Fins per inch	14
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	29,210
	Fins per inch	38
Compressor	Type	Five Cylinder - Variable Displacement
	Displacement (cc.)	9.2 cu. in. = 151 cc.
	Manufacturer	Delphi Harrison Thermal Systems
	A/C pulley ratio	LD9 1.29:1 LN2 1.24:1
Accumulator	Type	Tapered Full - Size Single "O" Ring R-134a
	Height (mm.)	8" = 206
	Diameter (mm.)	93.5 (Top Shell) 88.8 (Bottom Shell)
Receiver	Type	None
	Height (mm.)	None
	Diameter (mm.)	None
Refrigerant control (CCOT, TVS, etc.)		VDOT
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		R134a
Charge level (lbs. - oz.)		1.50
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		No

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description

ALL

Convenience Equipment (standard, optional, n.a.)

Clock (digital, analog)		Part Of Radio Package
Compass / thermometer		N/A
Console (floor, overhead)		Standard
Defroster, electric windshield		N/A
Defroster, electric backlight		(C49) Optional (Std on 1JF67)
Electronic	Diagnostic monitor (integrated, individual)	N/A
	Instrument cluster (list instruments)	(UH7) Standard, Speed, Fuel, Temp, Season Odo. (UH8) Optional, Speed, Tach, Fuel, Temp, Season And Trip Odo.
	Keyless entry	(AU0) Optional
	Tripminder (avg. spd., fuel)	N/A
	Voice alert (list items)	N/A
	Other	Key Left In/Head Lights On/Warning - Standard
Fuel door lock (remote, key, electric)		Manual Fuel Door
Integrated Child Seating	Std./opt. & location in vehicle	N/A
	Number of occupants	N/A
	Occupant weight/height (min. & max.)	N/A
	Restraint system description (3 or 5-point belts/booster seat capability)	N/A
Lamps	Auto head on/off delay, dimming	N/A
	Cornering	N/A
	Courtesy (map, reading)	Center Dome Standard; Center Dome/Reading (OPT C95)
	Door lock, ignition	N/A
	Engine compartment	N/A
	Fog	(N/A - Base) STD On JF37
	Glove compartment	Standard
	Trunk	Standard
	Illuminated entry system (list lamps, activation)	Courtesy, Front Door Activated, Theater Dimming - Standard
Other	N/A	
Mirrors	Day / night (auto., man.)	Option (DC4) Is Standard w/CF5
	L.H. (remote, power, heated)	Standard (D35), Optional (DG7), N/A
	R.H. (convex, remote, power, heated)	Standard (D35), Rh Manual, Optional (DG7), N/A
	Visor vanity (RH / LH)	Standard No Mirror; No Lamps Standard with Mirror; (Opt. DD2) Standard (DD2) (JF Styles) L & R Side Mirror Covered No Lamps
Navigation system (describe)		N/A
Parking brake-auto release (warning light)		Standard - Manual Release

Specifications

Vehicle Line CAVALIER

Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/Description

ALL

Convenience Equipment (standard, optional, n.s.)

Power equipment	Deck lid (release, pull down)		(A59) Optional Manual Release (Standard On Uplevel)
	Door locks (manual, automatic, describe system)		Standard Manual Door Lock/Unlock (AU3) Optional Electric
	Seats	2 - 4 - 6 way, etc.	N/A
		Reclining (R.H., L.H.)	N/A
		Memory (R.H.,L.H., preset recline)	N/A
		Support (lumbar, hip, thigh, etc.)	N/A
		Heated (R.H., L.H., other)	N/A
	Side windows		(A31) Optional
	Vent windows		N/A
	Rear windows		N/A
Radio systems	Antenna (location, whip, w/shield, power)		(US6) Standard Fixed RH Rear Fender (U74) Antenna Delete Std. on JC
	Standard		(UL5) Radio Delete Std. On Base Coupe/Sedan Only (UM7) AM/FM Stereo, Seek/Scan, Clock & Compact Disc (Std on 1JF67, 69)
	Optional	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	(UL0) AM/FM Stereo, Seek/Scan, Auto Rev, Music Search Cass., Auto tone, Clock ETR (UM6) AM/FM Stereo, Seek/Scan, Clock, ETR & Cassette (Std on 1JF37) (UN0) AM/FM Stereo, Seek/Scan, CD, Auto Tone, Clock, ETR
	Speaker (number, location)		(U79) Optional 4 Speaker - 2 RR shelf, Coax/door (UQ9) Speaker Delete (Std. On JC) (UX7) Standard 4, Dual Front Door Mtd. Dual Rear Shelf (Std. JF)
	Roof: open air or fixed (flip-up, sliding, "T")		(CF5) Optional Power Sunroof; Spoiler type (1JC69, 1JF69 only)
Speed control device		(K34) Optional (Std on 1JF37)	
Speed warning device (light, buzzer, etc.)		N/A	
Tachometer (rpm)		(UH8) Standard JF	
Telephone system (describe)		N/A	
Theft deterrent system		Standard on all models - Pass Lock	

Trailer Towing

Towing capable	Yes / No	Yes (1JF37, 67, 69 only)
Engine / transmission / axle	Std. / Opt.	LD9 Option w/ MN4 4 Speed Automatic
Tow class (I, II, III)*	Std. / Opt.	
Max. gross trailer wgt. (lbs.)	Std / Opt.	1000 lbs
Max. trailer tongue load (lbs.)	Std. / Opt.	100 lbs
Towing package available	Yes / No	No

\* Class I - 2,000 lbs.      Class II - 3,500 lbs.      Class III - 5,000 lbs.



Specifications

Vehicle Line CAVALIER

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METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Model Code/Description	SAE Ref. No.	COUPE	SEDAN	CONVERTIBLE
<b>Width</b>				
Tread (front)	W101	1462 (57.6)	1462 (57.6)	1462 (57.6)
Tread (rear)	W102	1432 (56.4)	1439 (26.7)	1438 (56.6)
Vehicle width	W103	1744 (68.7)	1725 (67.9)	1744 (68.7)
Body width at SgRP (front)	W117	1712 (67.4)	1710 (67.3)	1712 (67.4)
Vehicle width (front doors open)	W120	3844 (151.3)	3247 (127.8)	3844 (151.3)
Vehicle width (rear doors open)	W121	N/A	3520 (138.6)	N/A
Tumble-home (degrees)	W122	26.5°	29.0°	27.0°
Outside mirror width	W410	1916 (75.4)	1916 (75.4)	1922 (75.7)

**Length**

Wheelbase	L101	2644 (104.1)	2644 (104.1)	2644 (104.1)
Vehicle length	L103	4590 (180.7)	4590 (180.7)	4590 (180.7)
Overhang (front)	L104	982 (38.7)	982 (38.7)	982 (38.7)
Overhang (rear)	L105	965 (38.7)	965 (38.0)	965 (38.0)
Upper structure length	L123	2869 (113.0)	2869 (113.0)	2869 (113.0)
Rear Wheel C/L "X" coordinate	L127	260 (10.2)	260 (10.2)	260 (10.2)

**Height \*\***

Passenger distribution (front/rear)	PD1	2/3* *		
	.2,3			
Trunk/cargo load		* *		
Vehicle height	H101	1347 (53.0)	1389 (54.7)	1374 (54.1)
Cowl point to ground	H114	914 (36.0)	919 (36.2)	926 (36.4)
Deck point to ground	H138	1027 (40.4)	1013 (40.0)	1018 (40.1)
Rocker panel-front to ground	H112	216 (8.5)	216 (8.5)	224 (8.8)
Rocker panel-rear to ground	H111	218 (8.6)	218 (8.6)	228 (9.0)
Windshield slope angle (degrees)	H122	63.0°	61.5°	63.0°
Backlight slope angle (degrees)	H121	71.0°	63.0°	67.0°

**Ground Clearance \*\***

Front bumper to ground	H102	245.4 (9.7)	265.1 (10.4)	244.5 (9.6)
Rear bumper to ground	H104	322.7 (12.7)	314.0 (12.4)	322.6 (12.7)
Bumper to ground front at curb mass (wt.)	H103	256.6 (10.1)	256.6 (10.1)	256.6 (10.1)
Bumper to ground rear at curb mass (wt.)	H105	341.8 (13.5)	341.8 (13.5)	341.8 (13.5)
Angle of approach (degrees)	H106	13.5°	13.5°	13.5°
Angle of departure (degrees)	H107	15.5°	15.5°	15.5°
Ramp breakover angle (degrees)	H147	13°	13°	13°
Axle differential to ground (front/rear)	H153	N/A		
Min. running ground clearance	H156	146 (5.7)	146 (5.7)	146 (5.7)
Location of min. running ground clear.		Exhaust System		

\*\* All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

EPA loaded vehicle weight is the base vehicle weight plus all coolant and fluids necessary for operation plus 100% of the fuel capacity, plus the weight of all options and accessories which weigh three pounds or more and which are sold on at least 33% of the car line, plus two occupants.

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

COUPE	SEDAN	CONVERTIBLE
-------	-------	-------------

Front Compartment

SAE  
Ref.  
No.

SgRP front, "X" coordinate	L31	3150 (124.0)	3150 (124.0)	3150 (12.4)
Effective head room	H61	956 (37.6)	989 (38.9)	968 (38.1)
Max. effective leg room (accelerator)	L34	1066 (41.9)	1066 (41.9)	1070 (42.1)
SgRP to heel point	H30	247 (9.7)	247 (9.7)	242 (9.5)
SgRP to heel point	L53	861 (33.9)	861 (33.9)	868 (34.2)
Back angle (degrees)	L40	25.5°	25.5°	25.5°
Hip angle (degrees)	L42	97.0°	97.0°	97.0°
Knee angle (degrees)	L44	125.5°	125.5°	126.0°
Foot angle (degrees)	L46	87.0°	87.0°	87.0°
Design H-point front travel	L17	208 (8.2)	208 (8.2)	208 (8.2)
Normal driving & riding seat track trvl.	L23	188 (7.4)	188 (7.4)	188 (7.4)
Shoulder room	W3	1368 (53.9)	1387 (54.6)	1368 (53.9)
Hip room	W5	1270 (50)	1290 (50.8)	1270 (50)
Upper body opening to ground	H50	1233 (48.5)	1268 (50.0)	1248 (49.1)
Steering wheel maximum diameter*	W9	375 (14.8)	375 (14.8)	375 (14.8)
Steering wheel angle (degrees)	H18	20.7°	20.7°	20.7°
Accel. heel pt. to steer. whl. cntr.	L11	478.1 (18.8)	478.1 (18.8)	488.7 (19.2)
Accel. heel pt. to steer. whl. cntr.	H17	634.3 (24.9)	634.3 (24.9)	627.2 (24.7)
Undepressed floor covering thickness	H67	13 (.51)	15 (.59)	21 (.83)

Front Compartment Interior Dimensions are Measured with the Seating Reference Point (SgRP) \_\_\_\_\_ mm forward and \_\_\_\_\_ mm Upward of Rearmost Position.

Rear Compartment

SgRP point couple distance	L50	731 (28.8)	767 (30.2)	731 (28.8)
Effective head room	H63	929 (36.6)	946 (37.2)	955 (37.6)
Min. effective leg room	L51	831 (32.7)	873 (34.4)	829 (32.6)
SgRP (second to heel)	H31	253 (9.9)	268 (10.6)	242 (9.5)
Knee clearance	L48	1 (.04)	22 (.87)	2 (.08)
Shoulder room	W4	1394 (54.9)	1370 (53.9)	1196 (47.1)
Hip room	W6	1258 (49.5)	1285 (50.6)	1214 (47.8)
Upper body opening to ground	H51	N/A	1289 (50.8)	N/A
Back angle (degrees)	L41	28.0°	28.0°	28.0°
Hip angle (degrees)	L43	81.0°	85.0°	80.5°
Knee angle (degrees)	L45	78.0°	85.0°	78.0°
Foot angle (degrees)	L47	118.5°	121.5°	120.0°
Depressed floor covering thickness	H73	21 (.83)	22 (.87)	26 (1.02)

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	373 (13.17 cu. ft.)	385 (13.6 cu. ft.)	297 (10.5 cu. ft.)
Liftover height	H195	664 (26.1)	665 (26.2)	709 (28.0)

Interior Volumes (EPA Classification)

Vehicle class	Compact	Compact	Subcompact
Interior volume index including trunk/cargo (cu. ft.)**	100.34	105.1	93.3
Trunk/cargo index (cu. ft.)	13.20 cu.ft.	13.6 cu. ft.	10.5 cu. ft.

\* See page 14.

\*\* See definition page 33.

All linear dimensions are in millimeters (inches) unless otherwise noted.

\*\*\* EPA Loaded Vehicle Weight, Loading Conditions

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

Model Code/Description

2 DOOR NOTCHBACK

Station Wagon/MPV\*  
 -Third Seat

SAE Ref. No. (NOT APPLICABLE)

Seat facing direction	SD1
SgRP couple distance	L85
Shoulder room	W85
Hip room	W86
Effective leg room	L86
Effective head room	H86
SgRP to heel point	H87
Knee clearance	L87
Back angle (degrees)	L88
Hip angle (degrees)	L89
Knee angle (degrees)	L90
Foot angle (degrees)	L91

Station Wagon/MPV\* - Cargo Space (NOT APPLICABLE)

Cargo length (open front)	L200
Cargo length (open second)	L201
Cargo length (closed front)	L202
Cargo length (closed second)	L203
Cargo length at belt (front)	L204
Cargo length at belt (second)	L205
Cargo width (wheelhouse)	W201
Rear opening width at floor	W203
Opening width at belt	W204
Min. rear opening width above belt	W205
Cargo height	H201
Rear opening height	H202
Tailgate to ground height	H250
Front seat back to load floor height	H197
Cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V2
Hidden cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V4
Cargo volume index-rear of 2-seat	V10
Cargo volume index*	V6
Cargo width at floor*	W500
Maximum cargo height*	H505

Hatchback - Cargo Space (NOT APPLICABLE)

Cargo length at front seatback height	L208
Cargo length at floor (front)	L209
Cargo length at second seatback height	L210
Cargo length at floor (second)	L211
Front seatback to load floor height	H197
Second seatback to load floor height	H198
Cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V3
Hidden cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V4
Cargo volume index - rear of 2-seat	V11

All linear dimensions are in millimeters (inches) unless otherwise noted.

\* MPV - Multipurpose Vehicle

\*\* EPA Loaded Vehicle Weight, Loading Conditions

Specifications

Vehicle Line CAVALIER  
 Model Year 1998 Issued 9-97 Revised (●) \_\_\_\_\_

METRIC (U.S. Customary)

Model Code/  
Description

COUPE                      SEDAN                      CONVERTIBLE

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location			
Front	X - Fiducial mark to vertical zero grid line - front measured horizontally, from the zero grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt. Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt. Z - Fiducial mark to horizontal zero grid line - front, measured vertically from zero grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.			
Rear	X - Fiducial mark to vertical zero grid line - rear, measured horizontally from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.) Y - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal.) Z - Fiducial mark to horizontal zero grid line - rear, measured vertically from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)			
NOTE: Provide 3 of 4 Fiducial Mark Locations				
Front	W21**	505 (19.9)	505 (19.9)	505 (19.9)
	L54**	2761 (108.7)	2761 (108.7)	2761 (108.7)
	H81**	251 (9.9)	251 (9.9)	251 (9.9)
	H161**	293.5 (11.6)	253.5 (10.0)	293.5 (11.6)
	H163**	237.3 (9.3)	237.3 (9.3)	275.6 (10.6)
Rear	W22**	440 (17.3)	440 (17.3)	440 (17.3)
	L55**	4953 (195)	4953 (195)	4953 (195)
	H82**	363 (14.3)	363 (14.3)	364 (14.3)
	H162**	417.6 (16.4)	416.6 (16.4)	417.6 (16.4)
	H164**	391.5 (15.4)	393.2 (15.5)	391.5 (15.4)

- \* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.
  - \*\* Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.
  - \*\*\* EPA Loaded Vehicle Weight, Loading Conditions
- All linear dimensions are in millimeters (inches) unless otherwise noted.



Code	Equipment	Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
		MASS, kg. (lb.)			
		Front	Rear	Total	
A31	Power Windows	9 (2.0)	.6 (1.3)	1.5 (3.3)	Coupe
AF5	Seat Adj.	0.4 (0.9)	0.2 (0.4)	0.6 (1.3)	Coupe
A31	Power Windows	2.5 (5.5)	1.5 (3.3)	4.0 (8.8)	Sedan
B37	Mats, Front & Rear	1.6 (3.5)	1.2 (2.6)	2.8 (6.2)	
C49	Defogger (Rear)	0.0 (0.0)	.1 (.2)	.1 (.2)	
CF5	Elect. Sunroof	6.6 (14.5)	6.6 (14.5)	13.2 (29.0)	Coupe
A59	Remote Trunk Lock	.1 (.2)	.2 (.4)	.3 (.6)	
C60	Air Conditioning	15.0 (33.0)	0.0 (0.0)	15.0 (33.0)	
B84	Body Side Mldg.	1.0 (2.2)	1.2 (2.7)	2.2 (4.9)	
K34	Cruise Control	1.5 (2.2)	.0 (.0)	1.5 (2.2)	
CD4	Pulse Wiper	.2 (.4)	0 (0)	.2 (.4)	
DD2	Covered Sunshade	.2 (.4)	0 (0)	.2 (.4)	
KO5	Engine Block Heater	.4 (.9)	0 (0)	.4 (.9)	
MD9	3 Speed Auto. Trans.	33.0 (72.8)	-1.5 (-3.3)	31.5 (69.4)	
MJ1	Manual Trans.	-36.9 (-81.3)	2.0 (4.4)	-34.9 (-76.9)	1JF67 - 69
N33	Tilt Steering Wheel	1.2 (2.6)	.7 (1.5)	1.9 (4.1)	

\* Also see Engine - General Section for dressed engine mass (weight.)

Specifications  
METRIC (U.S. Customary)

Vehicle Line CAVALIER  
Model Year 1998 Issued 9-97 Revised (●)

Code	Equipment	Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
		MASS, kg. (lb.)			
		Front	Rear	Total	
QPD	15" Tire	2.2 (4.8)	2.2 (4.8)	4.4 (9.6)	1JC37 - 69
QPD	15" Tire	-1.6 (-3.5)	-1.6 (-3.5)	-3.2 (-7.1)	1JF37
DG7	Mirror	0.8 (1.8)	0.0 (0.0)	0.8 (1.8)	
MN4	Auto Trans. 4 Speed	41.4 (91.3)	-2.0 (-4.4)	39.4 (86.9)	1 JC00
MN4		37.1 (81.8)	-1.7 (-3.7)	35.4 (78.0)	1JF37
PF7	15" Wheel	-1.2 (-2.6)	-1.2 (-2.6)	-2.4 (-5.7)	1JC00
UM6	Radio - Cass	1.8 (4.0)	.2 (.4)	2.0 (4.4)	1JC00
PG1	15" Wheel	1.7 (3.7)	1.7 (3.7)	3.4 (7.4)	1JC00
UM7	Radio	1.2 (2.6)	0.0 (0.0)	1.2 (2.6)	1JC00
UNO	Radio Seek/Scan C.D.	2.0 (4.4)	.2 (.4)	2.2 (4.8)	1JC00
UX7	Speakers	.8 1.8	0.0 0	.8 1.8	1JC00
VH4	Mud Flaps	.2 (.4)	.2 (.4)	.4 (.8)	
VK3	Lic Plate Mount	0.1 (.2)	0.1 (.2)	0.2 (.4)	
W27	Appearance Pkg.	0.3 (0.7)	0.2 (0.4)	0.5 (1.1)	1JC00
AU3	Power Locks	0.4 (0.9)	0 (0)	0.4 (0.9)	Coupe
AU3	Power Locks	0.8 (1.8)	.2 (0.4)	1.0 (2.2)	Sedan
PF7	15" Wheel	-2.8 (6.2)	-2.8 (6.2)	-5.6 (12.4)	JF67-69

\* Also see Engine - General Section for dressed engine mass (weight.)

