# Gavaller ORDERING INFORMATION

**Focus Vehicle** for 1994 is the Cavalier VL Coupe...ideal for first-time buyers. Cavalier offers an array of safety and convenience features. When equipped with the recommended PEG 1 (JPA1), this model represents the best opportunity for high-volume Cavalier sales at your dealership.

Feature Vehicle is the Cavalier RS Coupe (detailed on the following sheet).

#### afety and Security

■ Four-Wheel Anti-Lock Brakes—help reduce wheel lockup to maintain steering control during severe braking situations, even on slippery roads ■ Self-Aligning Steering Wheel—gives way under impact and aligns with driver's body to reduce chance of injury in the event of a frontal collision ■ Power Door Locks with Automatic Locking and New Unlocking Feature—doors automatically lock when vehicle is shifted out of park and automatically unlock when shifted into park and the ignition is turned to the off position

#### erformance

■ 2.2 Liter 4-Cylinder Engine with Multi-Port Fuel Injection—redesigned for lower friction, improved fuel economy and increased power ■ Five-Speed Manual Transmission—allows driver to select the best gear for any driving condition. Overdrive gear reduces RPM at cruising speeds, thereby increasing fuel economy and reducing engine wear ■ Power Rack and Pinion Steering—a compact, lightweight steering system that provides easy control of vehicle's steering

#### ppearance

■ Base Coat/Clear Coat Paint—resists fading and provides a high gloss shine for long-lasting exterior beauty, clearcoat paint system reformulated with addition of Diamond Coat<sup>™</sup>, resists acid rain and other environmental paint damage to exterior finish ■ Composite Halogen Headlights—combine aerodynamic styling, a high level of illumination and easy servicing ■ Body-Side Moldings—provide a unique styling accent ■ Black Dual Outside Sport Mirrors, LH Remote and RH Manual—provide a distinctive sporty appearance and easy adjustability ■ Bolt-on Full Wheel Covers—attractive design is bolted on to reduce chance of loss or theft

#### omfort and Convenience

■ Cloth Reclining Front Bucket Seats—combine support and comfort with a reclining feature ■ Rear Seat Child Safety Belt Comfort Guide—provides optimum placement of seat belt regardless of occupant's size ■ Side Window Defoggers—conveniently remove condensation on driver and passenger windows ■ Headlights-on Reminder—audibly warns driver to shut off vehicle's lights before exiting ■ Intermittent Wipers—allow driver to match wiper speed to weather conditions ■ Remote Trunk Release—allows one to open trunk from inside vehicle

#### asy-To-Own

■ GM's Bumper-to-Bumper Plus 3-year/36,000-mile Warranty—with no deductible, provides owner with worry-free

driving ■ Chevrolet Roadside Assistance—provides 24-hour assistance via toll-free hotline ■ Scotchgard™ Fabric Protector—on seats and door panels; resists stains and makes cleanup easy ■ Stainless Steel Exhaust—includes all pipes, catalytic converter and muffler to resist corrosion

#### FEATURE VEHICLE: CAVALIER RS COUPE



RED ■: New Feature BLACK ■: Focus Vehicle Feature



FOCUS VEHICLE: CAVALIER VL COUPE

#### CAVALIER WAGON

#### \*12,065.00 Model 1JC35 Wagon

# MUST SPECIFY ENGINE, TRANSMISSION, EMISSIONS MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	Base Preferred Equipment Group (Refer Standard Equipment Summary)	JWAB	JWA1
435.00	Preferred Equipment Group 1		
	Steering, Tiltwheel Adjustable Steering Column		x
	Speed Control: Electronic, with Resume Speed		x
	Windshield Wiper System, Intermittent		x

#### **ADDITIONAL OPTIONS**

	ACKNOWLEDGEMENTS		RADIO EQUIPMENT
N.C.	R8S Multiple Order Numbers	V.P.S.	UM6 Electronically Tuned AM/FM
N.C.	R8T Preliminary Invoice		Stereo Radio w/Seek-Scan,
N.C.	VK3 BRACKET: License Plate, Front		Digital Clock, Stereo Cassett
115.00	V54 CARRIER: Roof (N/A w/JWAB)		Tape, Extended Range Fron
	CLIMATE CONTROL		and Rear Speakers
20.00	K05 Heater, Engine Block	V.P.S.	U1C Electronically Tuned AM/FM
	(Note: One of the Following Defogger		Stereo Radio w/Seek-Scan,
	Options Must Be Specified)		Digital Clock, Compact Disc
170.00	C49 Defogger, Rear Window: Electric		Player, Delco-L0c II and Exte
N.C.	R9W Defogger, Rear Window Not Desired		Front and Rear Speakers
	EMISSIONS (Refer Emission	N.C.	J**2 SEAT TRIM: Sport Cloth Buck
	Requirement Tab Section)	N.C.	MX1 TRANSMISSION: 3-Speed Au
N.C.	FE9 Federal Emission Requirements	330.00	A31 WINDOWS: Power with Expres
	NG1 NY State Emission Requirements		Down Driver's Side (N/A JW
100.00	(w/LH0 Engine)		`
N.C.	(w/LN2 Engine)		
	YF5 California Emission Requirements		
100.00	(w/LH0 Engine)		
N.C.	(w/LN2 Engine		
N.C.	NB8 California/NY Emission Override		•
	(Reqs FE9 Emissions)		

NC7 Federal Emission Override (Regs

LH0 3.1 Liter MFI V6 (Incls Performance HandlingPkg, Level II Susp, P195/70R14 Tires and Gage

YF5/NG1Emissions)

LN2 2.2 Liter MFI L4 (Base)

**ENGINE** 

Pkg)

CAVALIER

N.C.

N.C.

834.00

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<sup>\*</sup> Includes Destination and Handling Charges



# Cavaller

#### Trim Color/Seat Style Availability

Cloth available in Graphite, Medium Blue and Medium Gray



Reclining Bucket Seats (VL only)

Sport Cloth available in Graphite, Medium Blue and Medium Gray



Reclining Bucket Seats (Wagon, RS and Z24)

Reclining Bucket Seats (RS & Z24





Vinyl available in Arctic White



Reclining Bucket Seats (RS & Z24 Convertible only)









# — Four Most Popular Exterior Colors By Percentage -

Below are the anticipated four most popular Cavalier colors for 1994 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).

Bright Aqua Metallic	19%
Bright White	17%
Bright Red	15%
Light Teal Metallic	12%

#### Four Most Popular Exterior Colors with Corresponding Interior Color Availability

		1	N	Т	E	R	ı	0	R
_			Graphite	Med	ium Blue	Medium	n Gray	Arctic W	hite
OR	Bright Aqua Metallic								
<u>~</u>	Bright White							<b>*</b>	
ΗE	Bright Red							*	:
ΕX	Light Teal Metallic								

NOTE: New Cavalier interior color is Medium Blue. New exterior colors are Medium Bright Blue Metallic, Light Adriatic Blue Metallic and Hawaiian Orchid Metallic.

\* Available only on the Cavalier RS Convertible and Z24 Convertible

#### Wheels



Cavalier VL standard 14" bolt-on full wheel cove



Cavalier RS standard 14" bolt-on full wheel cove



Cavalier Z24 standard 15" aluminum wheel

#### **CAVALIER RS CONVERTIBLE**

#### \*17,470.00 Model 1JC67 RS Convertible

\*Includes Destination and Handling Charges

#### MUST SPECIFY: ENGINE, TRANSMISSION, EMISSION MUST ORDER ONE GROUP - NO DELETIONS ALLOWED

	Base Preferred Equipment Group (Refer Standard Equipment Summary)	JSAB	JSA1
370.00	Preferred Equipment Group 1		
	Speed Control: Electronic, with Resume Speed		X
	Tiltwheel Adjustable Steering Column		X

#### **ADDITIONAL OPTIONS**

		ACKNOWLEDGEMENTS			
N.C.	R8S	Multiple Order Numbers			
N.C.	R8T	Preliminary Invoice	V D C	1110	Electronically Tuned AM /FM
N.C.	VK3	BRACKET: License PLate, Front CLIMATE CONTROL	V.P.S.	UIC	Stereo Radio w/Seek-Scan, Digital Clock, Compact Disc Player, Delco-Loc II and
20.00	K05	Heater, Engine Block (Note: One of the Following Defogger Options must be			Extended Range Front and Rear Speakers SEAT TRIM
		Specified)	N.C.	.1**2	Sport Cloth Bucket
170.00	C49	Defogger, Rear Window: Electric	75.00		Vinyl Bucket
N.C.	R9W	Defogger, Rear Window Not	110.00	T43	•
		Desired	N.C.		TRANSMISSION: 3-Speed Auton
		EMISSION (Refer Emission Requirement Tab Section)	11.0.		(Base)
N.C.	FE9	Federal Emission Requirement			
	NG1	NY State Emission Requirements			
100.00		(W/LH0 Engine)			
N.C.		(W/LN2 Engine)			
	YF5	California Emission Requirements			
100.00		(W/LH0 Engine)			
N.C.		(W/LN2 Engine)			
N.C.	NB8	California/NY Emission Override (Reqs Fe9 Emission)			
N.C.	NC7	Federal Emission Override (Reqs YF5/NG1 Emission)			
		ENGINE			
N.C.	LN2	2.2 Liter MFI L4 (Base)			
834.00	LH0	3.1 Liter MFI V6 (Incls Perf Handling Pkg, Level II Susp, P195/70R14 Tires and Gage Pkg)			
V D C	118.40	RADIO EQUIPMENT			
V.P.S.	UMb	Electronically Tuned AM/FM			
		Stereo Radio w/Seek- Scan, Digital ClockStereo Cassette Tape,			

CAVALIER

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3-Speed Automatic

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Prices Shown Are Manufacturer's Suggested Retail Prices (MSRP) At The Time Of Publication. These Prices Are To Be Used Only As An Aid To Inventory Management Since MS Change Periodically. The Vehicle Price Schedule Is The Official Pricing Documentation Of Chevrolet Motor Division And Should Be Used In Discussing Vehicle Prices With Poten The Model Prices Shown In The Order Guide Include The Destination Freight Charges.

Extended Range Front and Rear

Rear Speakers



#### '94 Product Positioning

Cavalier's model line offers a wide variety for customers looking for roominess and convenience at a moderate price. For first-time buyers, the Cavalier VL offers the best value. For buyers who demand a more sporty appearance with a higher equipment level, the RS Coupe is a favorite choice. Families who want the most for their money find the practicality and convenience features of the Cavalier VL Sedan and Cavalier RS Sedan their best value.

#### **Buyer Demographics**

- Coupe buyers are predominantly young, middle class first-time buyers, and 64% are female. The median income is \$31,500
- Sedan buyers are older and are more likely to be married. The median income is \$33.000
- **Z24 buyers** are young and slightly more affluent
- Wagon buyers are older, middle class and more likely to be male and married
- Cavalier Convertible buyers are older (median age of 42) and more affluent (median income of \$65,000)

#### **Competitive Vehicles**

- Cavalier Coupe and Sedan are strong contenders in the small-car market, with main competitors that include Ford Escort, Plymouth Sundance, Dodge Shadow and Honda Civic
- Cavalier Z24's chief competitors are Ford Escort GT, Plymouth Laser, Ford Probe and Dodge Daytona
- Cavalier RS and Z24 Convertibles' key competition includes Ford Mustang, Dodge Shadow and Chrysler LeBaron

#### Feature Vehicle: Cavalier RS Coupe

The Cavalier RS Coupe is a favorite among the sport-minded, youthful market and includes:

- Air Conditioning
- Sport Cloth Reclining Front Bucket Seats
- Body color body side moldings with thinner section and molded ends.
- Body color tape stripe in front and rear fascia (ex. white which uses white fascia)
- Deck Lid Spoiler (Optional)
- 14" Bolt-on Full Wheelcover Specific to the RS Coupe

#### Focus Vehicle: Cavalier VL Coupe Ordering Recommendations

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

# VL Coupe with Preferred Equipment Group 1 (JPA1)

- Body-Side Moldings
- Carpeted Floor Mats, Color-Keyed Front and Rear
- Dual Visor Mirrors with Map Straps
- Mechanical Trunk Opener
- Intermittent Windshield Wipers

NOTE: Model, PEG and optional content may vary in your locality. Use the Retail Sales Analysis (RSA) to verify or specifically select your dealership's Cavalier Focus Vehicle content.

Notes ————



#### Cavalier Feature Availability

	Z24 Conv.	Z24 Coupe	RS Conv.	•	Cavalier Wagon	VL Coupe/ Sedan
3.1L MFI V6	S	S	01	01	01	N/A
2.2L MFI L4	N/A	N/A	S	S	S	S
5-Speed Manual Transmission	S	S	N/A	S2	N/A	S
3-Speed Automatic Transmissio	n O	0	S	O6	S	0
P185/75R-14 Blackwall	N/A	N/A	S	S	S	S
P195/70R-14 Blackwall	N/A	N/A	04	O4,5	04	N/A
P205/60R-15 Blackwall	S	S	N/A	N/A	N/A	N/A
P205/60R-15 White Letter Tires	0	0	N/A	N/A	N/A	N/A
4-Wheel Anti-Lock Brakes	S	S	S	S	S	S
Basecoat/Clearcoat Paint	S	S	S	S	S	S
Brake/Transmission Shift Interlock (auto. trans. only)	S	S	S	S	S	S
Decklid Spoiler	N/A	N/A	0	02	N/A	N/A
Electronic Speed Control	S	0	0	0	0	0
Self-Aligning Steering Wheel	S	S	S	S	S	S
15" Aluminum Wheels	S	S	N/A	N/A	N/A	N/A
14" Bolt-On Full Wheel Covers	N/A	N/A	S	S	S	S
Stainless Steel Exhaust	S	S	S	S	S	S
Power Rack and Pinion Steering	g S	S	S	S	S	S
Intermittent Wipers	S	S	S	S	0	0

S=Standard

O=Optional

N/A=Not Available

1 Includes Perf. Handling Pkg., Level II Susp., P195/70R-14 Tires and Gage Pkg.

2 N/A Sedan

3 N/A Coupe

4 Included with LHO engine

5 N/A with LN2

6 Coupe

#### Additional Information on Significant Features

- The Cavalier has improved its automatic door lock system with an automatic relock and unlock feature. If a door is opened when the vehicle's transmission is in the neutral or park position, the doors will automatically relock when it is shifted back into drive. On manual transmissions, a speed of 8 mph must be attained for this feature to activate. When the key is turned to the "off" position, the doors will automatically unlock.
- Chevrolet has added a wind noise reduction package which includes a new molded design for the outside rearview mirror seal and window channels, an A-pillar seal has been added to the sedan and secondary door seals are now in place on both the coupe and sedan.
- An important safety feature is the Self-Aligning Steering Wheel. In the event of a frontal
  collision, a specially designed bracket, located at the base of the hub, causes the steering
  column to crumple in a controlled manner, helping to absorb the driver's momentum and
  help soften the impact.
- A right outside rearview mirror has been added as standard equipment on VL models, making this a standard feature on the entire Cavalier lineup.
- Tinted window glass has been added as standard on VL models. Cavalier now has this feature on the entire model selection.

# Deletions and Rationale

- The Cavalier VL and RS Wagon models have been replaced by a single Cavalier Wagon model. It includes the exterior appearance of the VL and the interior content of the RS.
- Cavalier has three new exterior colors—Light Adriatic Blue Metallic replaces Maui Blue Metallic, Hawaiian Orchid Metallic replaces Autumn Maple and Medium Bright Blue Metallic replaces Medium Quasar Blue Metallic.
- Interior color Dark Sapphire Blue has been replaced by Medium Blue. Due to low demands, blue interior will not be available on the RS Convertible or the Z24 Convertible.
- The RS Coupe deck lid carrier has been replaced with a stylish spoiler option.
- The glove box lock has been eliminated on the RS and Z24 models.
- Door headers that previously had a blackout paint treatment are changed to body color in '94 to provide a continuity of appearance.

# **CAVALIER**

# CHEVROLET SPECIFICATIONS -- 1994 CAVALIER

# MODELS PASSENGER Cavalier Z24 Convertible (1JF67) 4 Cavalier Z24 2-Door Coupe (1JF37) 5 Cavalier RS Convertible (1JC67) 4 Cavalier RS 2-Door Coupe (1JC37) 5 Cavalier RS 4-Door Sedan (1JC69) 5 Cavalier 4-Door Wagon (1JC35) 5 Cavalier VL 2-Door Coupe (1JC37/WV9) 5

Cavalier VL 4-Door Sedan (1JC69/WV9) ...... 5

#### **DIMENSIONS** (inches)

EXTERIOR Wheelbare
Wheelbase
Length (overall) Conv,Sedan,Coupe 182.3
Wagon 181.1
Width (overall) 66.3
Height (overall) Sedan 53.5
Wagon 53.8
INTERIOR
Head Room-Front/Rear Sedan 39.1/37.4
Coupe 37.8/36.1
Shoulder Room-Front/Rear Sedan, Wagon 52.7/52.7
Hip Room-Front/Rear Sedan 48.0/48.8
Leg Room-Front/Rear Sedan 42.1/33.3
Wagon 42.1/32.5
LUGGAGE/CARGO CAPACITY (cu. ft.)
Luggage Capacity Sedan 13.2
Coupe 13.2
Cargo Volume
with Rear Seat Up Wagon 34.4
with Rear Seat Down Wagon 63.6
RATED FUEL TANK CAPACITY (gallons)

#### STANDARD EQUIPMENT SUMMARY

#### **EXTERIOR**

Brake-Transmission Shift Interlock (Auto Trans Only)
Brake System, 4-Wheel Anti-Lock
Bumpers, 5-MPH
Covers, Wheel 14" Bolt -On
Engine, 2.2 Liter MFI L4
Headlamps, Composite Halogen
Hood Insulator Pad, Engine Compartment
Mirror, Sport LH Remote and RH Manual
Paint, Base Coat/Clear Coat
Steering, Power Rack and Pinion
Tires, P185/75R14 Blackwall
Transmission, 5-Speed

#### **INTERIOR**

or Load Floor (Wagon)
Cloth Reclining Front Bucket Seats w/Integral Head Restraints
Console with Integral Armrest
Courtesy Lamps: Glove, Trunk, Overhead and Rear ......
Compartment (Wagon Only)
Defoggers, Side Window
Door Locks, Power with Automatic Locking/Unlocking Feature
Exhaust System, Stainless Steel
Glass, Tinted
Headlamp-On Reminder
Holder, Cup
Mirror, Rearview, Day/Night Inside
Safety Belt Comfort Guide, Child, Rear Seat
Steering Wheel, Self Aligning

Carpeting, Passenger Floor and Trunk (Conv., Coupe and Sedan)

#### **RS COUPE AND SEDAN**

The Following Equipment is in Addition to or Replacing Items Included in The Standard Equipment Summary

#### **EXTERIOR**

Moldings, Body Side, Color-Keyed Striping, Body Color Transmission. 3-Speed Automatic (Sedan Only)

#### **INTERIOR**

Air Conditioning
Lamp, Dome, Reading
Mats, Floor
Mirrors, Dual Covered Visor with Map Straps
Opener, Mechanical Trunk
Radio, Electronically Tuned AM/FM Stereo with Seek-Scan,
Digital Clock and Extended Range Front and Rear Speakers
Seat, Passenger Easy Entry (Coupe Only)
Sport Cloth Reclining Front Bucket Seats with Integral Head
Restraints
Wipers, Intermittent

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# CHEVROLET SPECIFICATIONS -- 1994 CAVALIER

#### STANDARD EQUIPMENT SUMMARY (CONT)

#### **CAVALIER WAGON**

The Following Equipment is in Addition to or Replacing Items Included in the RS Coupe and Sedan

#### **EXTERIOR**

Release, Tailgate, Power Transmission, 3-Speed Automatic

#### INTERIOR

Sport Cloth Reclining Front Bucket Seats with Integral Head Restraints
Seat, Rear, Split Folding
AM/FM Stereo Radio w/Seek-Scan, Digital Clock,
Extended Range Front and Rear Speakers

#### **RS CONVERTIBLE**

The Following Equipment is in Addition to or Replacing Items Included in the RS Coupe and Sedan

#### **EXTERIOR**

Net, Cargo Retaining, Luggage Area Transmission, 3-Speed Automatic

#### **INTERIOR**

Mirror, Mounted with Map Light
Optional Vinyl Reclining Bucket Seats with Adjustable
Head Restraints
Windows, Power with Express Down Driver's Side

#### **Z24 COUPE**

The Following Equipment is in Addition to or Replacing Items Included in the RS Convertible

#### **EXTERIOR**

Body Colored Fascias and Aero Package Engine, 3.1 Liter MFI V6 Spoiler Suspension, Sport Level III Tires, P205/60R15 Blackwall Transmission, 5-Speed Manual Wheels, 15" Aluminum

#### **INTERIOR**

Gage Package with Tach and Trip Odometer
Radio, Electronically Tuned AM/FM Stereo with
Seek-Scan, Digital Clock, Stereo Cassette Tape and
Extended Range Front and Rear Speakers
Sport Cloth Reclining Bucket Seat with Integral Head
Restraints and 4-Way Driver Seat Adjuster
Tilt-Wheel, Adjustable Steering Column

#### **Z24 CONVERTIBLE**

The Following Equipment is in Addition to or Replacing Items Included in the Z24 Coupe

#### **EXTERIOR**

Net, Cargo Retaining, Luggage Area Top, Power Operated

#### **INTERIOR**

Mirrors, with Mounted Map Light
Sport Cloth Bucket Seat Reclining with Integral Head
Restraints and 4-Way Driver Seat Adjuster
Optional Vinyl Reclining Bucket Seats with Adjustable
Head Restraints
Windows, Power, with Express Down Driver's Side

#### **CAVALIER VL COUPE AND SEDAN**

\*9445.00 Model 1JC37 Cavalier VL Coupe \*9595.00 Model 1JC69 Cavalier VL Sedan

\* Includes Destination and Handling Charges

#### MUST SPECIFY: ENGINE, TRANSMISSION, EMISSIONS MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

173.00	Base Equipment Group (Refer Standard Equipment Summary) Preferred Equipment Group 1	JPAB	JPA1	JPA2
	Bodyside Moldings		x	X
	Floor Covering: Carpeted Mats, Color-Keyed Front and Rear		x	x
	Mirrors, Dual Covered Visor with Map Straps		x	x
	Trunk Opener, Mechanical		X	X
	Windshield Wiper System, Intermittent		X	X
543.00	Preferred Equipment Group 2			
	Speed Control: Electronic, with Resume Speed			X
	Steering, Tiltwheel Adjustable Steering column			X

#### **ADDITIONAL OPTIONS**

N.C. N.C. N.C.	ACKNOWLEDGEMENTS R8S Multiple Order Numbers R8T Preliminary Invoice VK3 BRACKET License PLate,Front CLIMATE CONTROL C60 Air Conditioning	V.P.S.	UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Stereo Cassette Tape and Extended Range Front and Rear
20.00	K05 Heater, Engine Block (Note: One of the Following Defogger Options must beSpecified)	V.P.S.	Speakers U1C Electronically Tuned AM/FM Stereo Radio w/Seek- Scan, Digital Clock, Compact
170.00	C49 Defogger, Rear Window: Electric		Disc Player, Delco-Loc II and Extended Range Front
N.C.	R9W Defogger, Rear Window not Desired	N.C.	andRear Speakers UL5 Radio Delete (Base) (Speakers and Antenna Not Included)
	EMISSIONS (Refer Emission Requirement Tab Section)	N.C.	C**2 <b>SEAT TRIM</b> Cloth Bucket
N.C.	FE9 Federal Emission		TRANSMISSIONS
	Requirements	N.C.	MM5 5-Speed Manual (Base)
N.C.	NG1 NY State Emission	495.00	MX1 3-Speed Automatic
	Requirements		
N.C.	YF5 California Emission		
N. O	Requirements		
N.C.	NB8 California/ NY Emission		
N.C.	Override (Reqs FE9 Emission) NC7 Federal Emission Override		
14.0.	(Regs YF5/NG1Emission)		
N.C.	LN2 ENGINE 2.2 Liter MFI L4		
	RADIO EQUIPMENT		
	(Note: One of the Following		
	Radio Options Must Be		
	Specified)		
V.P.S.	UM7 Electronically Tuned AM/FM		
	Stereo Radio w/Seek-Scan, Digital Clock, Extended Range		
	Front and Rear Speakers		

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# **CAVALIER VL COUPE AND SEDAN**

#### **COLOR AND TRIM SELECTION**

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

Interior Trim Color		Graphite	Med Blue	Med Gray
MODEL	SEAT TYPE			
1JC69 1JC37	Cloth Bucket	CBB2	CDD2	CQQ2

#### **SOLID PAINT APPLICATION**

Exterior Paint Color	Color Code 1	Color Code 2	Graphite	Med Blue	Med Gray	Bumpers
Aqua, Bright (Met)	43	43	x	WIOG BIGG	x	Black
\$Black	41	41	x		х	Black
Blue, Lt Adriatic (Met)	36	36		х	x	Charcoal
Blue, Med Bright (Met)	26	26	х	х	x	Black
Gray, Lt (Met)	14	14	x		x	Charcoal
Orchid, Hawaiian (Met)	84	84	x		x	Black
Red, Bright	81	81	x		x	Black
Teal, Lt (Met)	34	34	x		x	Charcoal
White, Bright	16	16	x	x	X	Black

<sup>\$</sup> Coupe Model Only

#### **POWER TEAMS**

ENGINE OPTION CONDITION	FINAL DRIV	E RATIO				
	2.84	3.45				
WITH FE9 FEDERAL EMISSIONS						
LN2 MM5		Std				
MX1	Std					
WITH YF5 CALIFORNIA or NG1 NY	WITH YF5 CALIFORNIA or NG1 NY STATE EMISSIONS					
LN2 MM5	****	Std				
MX1	Std					

#### **COLOR AND TRIM SELECTION**

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

Interior Trim Color		Graphite	Med Blue	Med Gray
MODEL	SEAT TYPE			
1JC35	Sport Cloth Bucket	JBB2	JDD2	JQQ2

#### **SOLID PAINT APPLICATION**

Exterior Paint	Color	Color				
Color	Code 1	Code 2	Graphite	Med Blue	Med Gray	Bumpers
Aqua, Bright (Met)	43	43	x		x	Black
Blue, Lt Adriatic (Met)	36	36		х	х	Charcoal
Blue, Med Bright (Met)	26	26	х	x	х	Black
Gray, Lt (Met)	14	14	х		х	Charcoal
Orchid, Hawaiian (Met)	84	84	х		х	Black
Red, Bright	81	81	х		х	Black
Teal, Lt (Met)	34	34	х		x	Charcoal
White, Bright	16	16	х	х	x	Black

#### **POWER TEAMS**

ENGI	NE OPTION CONDITION	FINAL DE	RIVE RATIO			
		2.53	2.84			
WITH FE9 FEDERAL EMISSIONS						
LN2	MX1		Std			
LH0	MX1	#Std				
WITH	YF5 CALIFORNIA or NG1 NY ST	ATE EMISSION	NS			
LN2	MX1		Std			
LH0	MX1	Std				

<sup># 2.84</sup> Axle Ratio For Hawaii Only

# CAVALIER RS COUPE AND SEDAN

\*11,315.00 Model 1JC37 Cavalier RS Coupe \*11,915.00 Model 1JC69 Cavalier RS Sedan

# MUST SPECIFY: ENGINE, TRANSMISSION, EMISSION MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

Base Preferred Equipment (Refer Standard Equipment Summary)

70.00 Preferred Equipment Group 1
Tiltwheel Adjustable Steering Column
Speed Control: Electronic, with Resume Speed

X

#### ADDITIONAL OPTIONS

		ACKNOWLEDGEMENTS			
N.C.	R8S	Multiple Order Numbers	V.P.S.	U1C	Electronically Tuned AM /FM
N.C.	R8T	Preliminary Invoice			Stereo Radio w/Seek-Scan,
N.C.	VK3	BRACKET: License Plate, Front			Digital Clock, Compact Disc
		CLIMATE CONTROL			Player, Delco-Loc II , Extended
20.00	K05	Heater, Engine Block			Range Front and Rear Speakers
		(Note: One of the Following	N.C.		SEAT TRIM: Sport Cloth Bucket
		Defogger Options must be	180.00	AM9	SEAT: Split Folding Rear (Incl Deluxe
		Specified)			Luggage Compt Trim and Cargo
170.00		Defogger, Rear Window: Electric		T.10	Retaining Net, Luggage Area)
N.C.	R9W	Defogger, Rear Window not	110.00	143	SPOILER: Rear, Deck Lid (Coupe Only)
		Desired			(Refer Color and Trim Selection Chart)
		EMISSION (Refer Emission	NO	14145	TRANSMISSION
N.C.	EEO	Requirement Tab Section) Federal Emission Requirements	N.C.	IVIIVI	5-Speed Manual (Base Coupe Model) (N/A Sedan)
14.0.		NY State Emission Requirements	495.00	MV1	3-Speed Automatic (Base Sedan
	NOT	(N/A w/LH0 with MM5 Trans)	493.00	IVIA	Model)
100.00		(W/LH0 Engine)		Δ21	WINDOWS: Power w/Express Down
N.C.		(W/LN2)		701	Driver'sSide) (N/A JCAB)
11.0.	YF5	California Emission Requirements	265.00		(Coupe Only)
		(N/A w/LH0 Eng with MM5 Trans)	330.00		(Sedan Only)
100.00		(W/LH0 Engine)	000.00		(CCCC),
N.C.		(W/LN2 Engine)			
N.C.	NB8	California/NY Emission Override			
		(Reqs FE9 Emissions)			
N.C.	NC7	Federal Emission Override (Reqs			
		YF5/NG1 Emission)			
•••		ENGINE			
N.C.		2.2 Liter MFI L4			
834.00	LHO	3.1 Liter MFI V6 (Incls Perf			
		Handling Pkg, Level II Susp,			
		P195/70R14 Tires and Gage			
		Pkg) RADIO EQUIPMENT			
V.P.S.	1 18.44	6 Electronically Tuned AM/FM Stereo			
V.1 .O.	Olvi	Radio w/Seek-Scan, Digital Clock,			
		Stereo Cassette Tape and			
		Extended Front and Rear Speakers			

CAVALIER

1994 ORDER GUIDE

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Page 8
Prices Shown Are Manufacturer's Suggested Retail Prices (MSRP) At The Time Of Publication. These Prices Are To Be Used Only As An Aid To Inventory Management Since MSRP Figures Change Periodically. The Vehicle Price Schedule Is The Official Pricing Documentation Of Chevrolet Motor Division And Should Be Used In Discussing Vehicle Prices With Potential Buyers. The Model Prices Shown In The Order Guide Include The Destination Freight Charges.

<sup>\*</sup> Includes Destination and Handling Charges

# **CAVALIER RS COUPE AND SEDAN**

# **COLOR AND TRIM SELECTION**

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

Interior Trim Color		Graphite	Med Blue	Med Gray
MODEL	SEAT TYPE			
1JC69 1JC37	Sport Cloth Bucket	JBB2	JDD2	JQQ2

#### STANDARD COMBINATIONS

Exterior Paint Color	Color Code 1	Color Code 2	Graphite	Med Blue	Med Gray	Bumpers
Aqua, Bright (Met)	43	43	x		x	Black
\$Black	41	41	х		x	Black
#Blue, Lt Adriatic (Met)	36	36		x	х	Charcoal
Blue, Med Bright (Met)	26	26	х	х	х	Black
**Gray, Lt (Met)	14	14	х		x	Charcoal
Orchid, Hawaiian (Met)	84	84	x		x	Black
Red, Bright (Met)	81	81	х		х	Black
#Teal, Lt (Met)	34	34	x		x	Charcoal
White, Bright	16	16	х	x	x	White

<sup>\$</sup> Coupe Model Only

#### **POWER TEAMS**

ENGINE OPTION CONDITION	FINAL DRIVE RATIO				
	2.53	2.84	3.45	3.61	
WITH FE9 FEDERAL EMISSIONS					
LN2 MM5			Std		
MX1		Std			
LHO MM5				Std	
MX1	#Std				
WITH YF5 CALIFORNIA or NG1 NY S	TATE EMISSION	NS			
LN2 MM5			Std		
MX1		Std			
LH0 MX1	Std				

<sup># 2.84</sup> Axle Ratio For Hawaii Only

<sup>\*\*</sup> Sedan Only

<sup>#</sup> N/A T43 Deck Lid Spoiler

# **CAVALIER RS CONVERTIBLE**

#### **COLOR AND TRIM SELECTION**

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

Interior 1	Interior Trim Color		Arctic White
MODEL	SEAT TYPE		
1JC67	Sport Cloth Bucket	JQQ2	
10007	Vinyl Bucket		VWW2

#### **@CONVERTIBLE TOP AND PAINT SELECTOR**

Exterior Paint	Color	Color			Arctic	
Color	Code 1	Code 2	Me	dGray		Bumpers
Aqua, Bright (Met)	43	43	10	T/41T	10T/41T	Black
Black	41	41	10	T/41T	10T/41T	Black
Blue, Med Bright (Met)	26	26	10	T/41T	10T/41T	Black
Orchid, Hawaiian (Met)	84	84	10	T/41T	10T/41T	Black
Red, Bright	81	81	10	T/41T	10T/41T	Black
White, Bright	16	16	10	T/41T	10T/41T	White

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

#### **CONVERTIBLE TOP COLOR**

41T	Г
	41

#### **POWER TEAMS**

ENGINE (	ENGINE OPTION CONDITION		RIVE RATIO	
L		2.53 2.8		
WITH FES	FEDERAL EMISSIONS			
LN2 MX	(1		Std	
LHO MX	<b>K1</b>	#Std		
WITH YF5	CALIFORNIA or NG1 NY ST	ATE EMISSION	NS .	
LN2 MX	(1		Std	
LHO MX	<b>K1</b>	Std		

# 2.84 Axle Ratio For Hawaii Only

#### **CAVALIER Z24 COUPE**

#### \*14,470.00 MODEL 1JF37 COUPE

# MUST SPECIFY: ENGINE, TRANSMISSION, EMISSIONS, TIRES MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	Base Preferred Equipment Group (Refer Standard Equipment Summary)	JZAB	JZA1
670.00	Preferred Equipment Group 1		
	Cargo Retaining Net, Luggage Area		X
	Power Windows w/Express Down Driver's Side		X
	Seat, Rear Split Folding		X
	Speed Control: Electronic, with Resume Speed		X

#### **ADDITIONAL OPTIONS**

**RADIO EQUIPMENT** 

			HADIO EGOII MENT
		V.P.S.	U1C Electronically Tuned AM/FM
	ACKNOWLEDGEMENTS		Stereo Radio w/Seek-Scan,
N.C.	R8S Multiple Order Numbers		Digital Clock, Compact
N.C.	R8T Preliminary Invoice		Disc Player, Delco-Loc II ,
N.C.	VK3 BRACKET: License Plate, Front		Extended Range Front and Rear
	CLIMATE CONTROL		Speakers
20.00	K05 Heater, Engine Block	N.C.	J**2 <b>SEAT TRIM:</b> Sport Cloth Bucket
	(NOTE: One of the Following	350.00	AD3 SUNROOF: Removable
	Options Must Be Specified)		TIRES
170.00	C49 Defogger, Rear Window, Electric	N.C.	QIM P205/60 R15 B/W (Base)
N.C.	R9W Defogger, Rear Window Not Desired	98.00	QIQ P205/60 R15 Raised White
	EMISSIONS(Refer Emission		Outlined Letter
	Requirement Tab Section)		TRANSMISSION
N.C.	FE9 Federal Emission Requirements	N.C.	MM5 5-Speed Manual (Base)
100.00	NG1 NY State Emission Requirements	495.00	MX1 3-Speed Automatic
	(N/A MM5 Trans)		
100.00	YF5 California Emission Requirements		
	(N/A MM5 Trans)		
N.C.	NB8 California/NY Emission Override		
	(Reqs FE9 Emission)		
N.C.	NC7 Federal Emission Override (Reqs		
	YF5/NG1 Emission)		
N.C.	LH0 ENGINE: 3.1 Liter MFI V6		

CAVALIER 1994 ORDER GUIDE REVISED: 1-10-94

<sup>\*</sup> Includes Destination and Handling Charges

#### **COLOR AND TRIM SELECTION**

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

Interior	Trim Color	Graphite	Med Blue	Med Gray
MODEL	SEAT TYPE			
1JF37	Sport Cloth Bucket	JBB2	JDD2	JQQ2

#### **SOLID PAINT APPLICATION**

Exterior Paint	Color	Color			
Color	Code 1	Code 2	Graphite	Med Blue	Med Gray
Aqua, Bright (Met)	43	43	х		x
Black	41	41	х		х
Blue, Med Bright(Met)	26	26		х	х
Orchid, Hawaiian (Met)	84	84	х		х
Red, Bright (Met)	81	81	х		х
White, Bright	16	16	x	х	Х

**POWER TEAMS** 

IOTILILANO					
ENGINE OPTION CONDITION	FINAL DRIVE RATIO				
	2.84	3.61			
WITH FE9 FEDERAL EMISSIONS					
LH0 MM5		Std			
MX1	Std				
WITH YF5 CALIFORNIA or NG1 NY STATE EMISSIONS					
LH0 MX1	Std	****			

## **CAVALIER Z24 CONVERTIBLE**

Extended Range Front and

Rear Speakers

\*20,470.00 Model 1JF67 Z24 Convertible

MUST SPECIFY: ENGINE, TRANSMISSION, EMISSION, TIRES Base Preferred Equipment Group JFAB (Refer Standard Equipment Summary Page)

#### **ADDTITIONAL OPTIONS**

					OF A T TRUM
		ACKNOWLEDGEMENTS		1++0	SEAT TRIM
N.C.		Multiple Order Numbers	N.C.		Sport Cloth Bucket
N.C.		Preliminary Invoice	75.00	٧^^2	Vinyl Bucket
N.C.	VK3	BRACKET: License Plate, Front			TIRES
		CLIMATE CONTROL	N.C.		P205/60 R15 B/W (Base)
20.00	K05	Heater, Engine Block	98.00	QIQ	P205/60 R15 Raised White
		(Note: One of the Following			Outlined Letter
		DefoggerOptions must be			TRANSMISSION
		Specified)	N.C.		5-Speed Manual (Base)
170.00		Defogger, Rear Window: Electric	495.00	MX1	3-Speed Automatic
N.C.	R9W	Defogger, Rear Window Not			
		Desired			
		EMISSION (Refer Emission			
		Requirement Tab Section)			
N.C.		Federal Emission Requirements			
100.00	NG1	NY State Emission Requirements			
		(N/A MM5 Trans)			
100.00	YF5	California Emission Requirements			
		(N/A MM5 Trans)			
N.C.	NB8	California/NY Emission Override			
		(Reqs FE9 Emission)			
N.C.	NC7	Federal Emission Override (Reqs			
		YF5/NG1 Emission)			
N.C.	LH0	ENGINE 3.1 Liter MFI V6			
		RADIO EQUIPMENT			
V.P.S.	U1C	Electronically Tuned AM /FM			
		Stereo Radio w/Seek- Scan,			
		Digital Clock, Compact			
		Disc Player, Delco-Loc II,			

**REVISED: 1-10-94** CAVALIER 1994 ORDER GUIDE

<sup>\*</sup> Includes Destination and Handling Charges

#### **CAVALIER Z24 CONVERTIBLE**

#### **COLOR AND TRIM SELECTION**

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

Interior T	rim Color	Med Gray	Arctic White
MODEL	SEAT TYPE		
1JF67	Sport Cloth Bucket	JQQ2	
	Vinyl Bucket		VWW2

**@CONVERTIBLE TOP AND PAINT SELECTOR** 

Exterior	Color	Color	Med	Arctic
Color	Code 1	Code 2	Gray	White
Aqua. Bright (Met)	43	43	10T/41T	10T/41T
Black	41	41	10T/41T	10T/41T
Blue, Med Bright (Met)	26	26	10T/41T	10T/41T
Orchid. Hawaiian (Met)	84	84	10T/41T	10T/41T
Red, Bright	81	81	10T/41T	10T/41T
White. Bright	16	16	10T/41T	10T/41T

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

#### **CONVERTIBLE TOP COLOR**

**POWER TEAMS** 

ENGINE OPTION CONDITION	FINAL DRIVE RATIO				
	2.84	3.61			
WITH FE9 FEDERAL EMISSIONS					
LHO MM5		Std			
MX1	Std				
WITH YF5 CALIFORNIA or NG1 NY STATE EMISSIONS					
LHO MX1	Std				



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Prices 16
Prices Shown Are Manufacturer's Suggested Retail Prices (MSRP) At The Time of Publication, These Prices Are To Be Used Only As An Aid To Inventory Management Since MSRP Figures Change Periodically. The Vehicle Price Schedule Is The Official Pricing Documentation of Chevrolet Motor Division And Should Be Used In Discussing Vehicle Prices With Potential Buyers. The Model Prices Shown In The Order Guide Include The Destination Preight Charges.

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

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

1994

Manufacturer	CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Vehicle Line  CAVALIER	
Mailing Address			
	30007 VAN DYKE WARREN, MI 48090-9065	Issued SEPTEMBER, 1993	Revised

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the American Automobile Manufacturers Association.

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



Motor Vehicle Manufacturers Association of the United States, inc.

Vehicle Line	CAVALIER				
Model Year	1994	Issued	9-93	Revised(*)	

#### METRIC (U.S. Customary)

#### Vehicle Origin

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

#### **Vehicle Models**

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
CAVALIER RS				
4-Door Station Wagon (FWD)	1JC35	2/3	40 (88)	25/31
2-Door Notchback Coupe (FWD)	1JC37	2/3	60 (132)	25/36
4-Door Notchback Sedan (FWD)	1JC69	2/3	60 (132)	23/33
2-Door Convertible	1JC67	2/2	60 (132)	23/33
CAVALIER Z24				
2-Door Notchback Coupe (FWD)	1JF37	2/3	60 (132)	20/28
2-Door Convertible	1JF67	2/2	60 (132)	20/28
CAVALIER (VALUE LEADER)				
2-Door Notchback Coupe	1JC37 w/WV9	2/3	60 (132)	25/36
4-Door Notchback Sedan	1JC69 w/WV9	2/3	60 (132)	25/36

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<sup>\*</sup> FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

Vehicle Line **CAVALIER** Model Year 1994 9**-93** Revised(\*) ssued

163.3 kg (359 lbs.) Manual

#### METRIC (U.S. Customary)

**Engine Description Engine Code** 

2.2 LITER L4 (133 CID)

MULTI-PORT FUEL INJECTION RPO 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 Division			
No. of cylinde	ers	4			
Bore		89.0 mm (3.50 in.)			
Stroke		88.0 mm (3.46 in.)			
Bore spacing	(C/L to C/L)	99.0 mm (3.90 in.)			
Cyl bick mati	& mass kg(lbs.)(machined)	Cast iron, 42 (93), W/O Caps			
Cylinder bloc	k deck height	216.65 mm (8.53 in.)			
Cylinder bloc	k length	443 mm (17.44 in.)			
Deck clearance (minimum) (above or below block)		.6 mm (.024 in.) Below			
Cyl. head ma	terial & mass kg (lbs.)	Aluminum, 9.7 (21.3)			
Cylinder head volume (cu. cm.) (cu.in.)		32.8 (2.00)			
Cylinder liner	material	No Liner			
Head gasket (compressed		1.50 (.059)			
	nbustion chamber (cm. cu.) (cu. in.)	67.34 (4.11)			
Cyl. no. syste	em L. Bank	1-2-3-4			
(front to rear	R. Bank	-			
Firing order		1-3-4-2			
Intake manife	old mati & mass kg (lbs.)**	Aluminum, 3.9 (8.6)			
Exh. manifol	d mati & mass kg (lbs.) **	Nodular Cast Iron, 4.5 (10)			
Knock senso	r (number & location)	One, Right Side Of Block			
Fuel required	d unleaded, diesel, etc.	Unleaded			
Fuel antikno	ck index (R + M) / 2	87			
	Quantity	3			
Engine mounts	Mati and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric			

#### Engine - Pistons

Total dressed engine mass (wt) dry\*\*\*

Material & mass, g (weight, oz.) – piston only Aluminum Alloy, 328 (11.57)

No

#### **Engine Camshaft**

Location		In Block, Right Side
Material &	mass kg (weight, lbs.)	Assembled Steel
Drive	Chain/belt	Chain
type	Width/pitch	19.3 x 9.5 mm (.76 x .37 in.)

147.7 kg (325 lbs.) Automatic

Added isolation (sub-frame, crossmember, etc.)

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<sup>\*</sup>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:

			•

#### Vehicle Line **CAVALIER MVMA** Specifications Model Year issued 9-93 Revised(\*) METRIC (U.S. Customary) **Engine Description** 2.2 LITER L4 (133 CID) **Engine Code** MULTI-PORT FUEL INJECTION RPO LN2 Engine - Valve System Hydraulic lifters (std., opt., n.a.) Standard 4/4 Number intake/exhaust Valves 44.0 mm (1.73 in.) / 37.0 mm (1.46 in.) Head O.D. intake/exhaust **Engine - Connecting Rods** Forged Steel, .540 (1.19) Material & mass kg., (weight, lbs.) \* 141.95 mm (5.59 in.) Length(axes centerline to centerline)mm Engine - Crankshaft Nodular Cast Iron, 14.4 (31.7) Material & mass kg., (weight, lbs.) \* End thrust taken by bearing (no.) 5, 20.72 mm (.82 in.) Length & number of main bearings One Piece Fluroelastomer Seal (material, one, two piece design, etc.) Front One Piece Fluroelastomer Engine - Lubrication System Normal oil pressure kPa(psi) @ eng rpm 435-530 (63-77) @ 1200 Stationary Type oil intake (floating, stationary) **Full Flow** Oil filter sys. (full flow,part, other) Capacity of c/case,less filter-refill-L (qt.)

	Diesei Information	
Diesel engine m	anufacturer	
Glow plug, curre	ent drain at 0 deg. F	
Injector	Туре	
Nozzie	Opening pressure kPa(psi)	
Pre-chamber de	esign	
Fuel in-	Manufacturer	
jection pump	Туре	
Fuelinj, pump d	rive (belt,chain,gear)	
Supplementary	vacuum source (type)	
Fuel heater (yes	s/no)	
Water separator (std., opt.)	r, description	
Turbo manufact	turer	
Oil cooler-type oil to ambient ai	(oil to engine coolant; ir)	
Oil filter		

(NOT APPLICABLE)

3.8 (4.0)

intercooler

Engine - Intake System

Turbo charger - manufacturer Super charger - manufacturer

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<sup>\*</sup> Finished State

		,	

CAVALIER Vehicle Line Revised(\*) Model Year 1994 Issued 9**-93** 

#### METRIC (U.S. Customary)

**Engine Description** Engine Code

2.2 LITER L4 (133 CID) MULTI-PORT FUEL INJECTION RPO LN2

Coolegt	ru sustam (std. ont. n.s.)	Standard				
	ry system (std, opt, n.a.)	Bottle, Coolant Recovery				
	ation (rad., bottle)	Sound, Costant (toostory)				
kPa (psi)	lief valve pressure	109.6 (15.9)				
	Type (choke, bypass)	Choke				
Circulation	Starts to open @ deg's C(F)	89 (192)				
thermostat		Centrifugal				
	Type (centrifugal, other)	7.3				
	GPM 1000 pump rpm	11				
Water	Number of pumps	Poly-Vee				
Pump	Drive (V-belt, other)	Sealed, Ball Roller				
	Bearing type					
	Impeller material	Stamped Steel				
	Housing material	Aluminum				
By-pass recirc ext.)	culation type (inter.,	External - Thru Intake Manifold Internal				
	With heater - L (qt.)	8.9 (9.4)				
Cooling system	With air conditioner-L(qt.)	8.9 (9.4)				
capacity	Opt. equip. specify-L(qt.)					
Water jackets	full length of cyl(yes,no)	No - Between Bores Siamese Below Ring Travel				
Water all arour	nd cylinder (yes, no)	Yes - in Ring Travel Area				
Water jackets open at head face (yes,no)		Yes				
	Std., A/C, HD	Manual / Auto				
	Type (cross-flow, etc.)	Cross-Flow				
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin / Soldered				
Radiator core	Mati., mass kg (wgt.,ibs.)	4.19 (9.2) / 4.62 (10.2), Copper-Brass				
	Width	387 mm (15.24 in.)				
	Height	500 mm (19.7 in.)				
	Thickness	25 (1.0)				
	Fins per inch	16.9				
Radiator end t	tank material	Copper-Brass				
	Std., elec., opt.	Standard / A/C, Electric				
	Number of blades & type (flex, solid, material)	5 / 6, Solid, Plastic				
	Number & location (front, rear of radiator)					
	Diameter & projected width	290 (11.4) / 373 (14.7)				
	Ratio(fan to crnkshft.rev.)	Not Applicable				
Ean	Fan cutout type	ECM Controlled				
Fan	Drive type (direct, remote)	Direct - Electric Motor				
	RPM at idle (elec.)	1800				
	Motor rating(wattage)(elec)	100 / 150				
	Motor switch (type & location/elec.)	Engine Block				
	Switch point (temp.,/ pressure/elec.)	On At 106 Deg. C, Off At 100 Deg. C				
		None / Plastic				

 Vehicle Line
 CAVALIER

 Model Year
 1994
 Issued
 9-93
 Revised(\*)

METRIC (U.S. Customary)

Engine Description
Engine Code

2.2 LITER L4 (133 CID)

MULTI-PORT FUEL INJECTION RPO LN2

duction type: carburetor, fuel jection system, etc.		Fuel Injection
lanufacturer		AC/Rochester Products
arburetor no. of b	parrels	None
le A/F mix.		Computer Controlled
	Point of inj. (no.)	Entering Cylinder Head (Four)
uel	Constant, pulse, flow	Pulse
jection	Control (elec., mech.)	Electronic
	Sys. press. kPa (psi)	294 - 306 (43 - 44)
	Manual	Computer Controlled
ile spdrpm spec. neutral		
r drive and ropane if sed)	Automatic	Computer Controlled
itake manifold he r water thermost	eat control (exhaust atic or fixed)	None
ir cleaner type		Single Snorkel
uel filter (type/io	cation)	Replaceable/Inline Rear Of Tank
	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
uei		No. A configuration
	Press, range kPa (psi)	Not Applicable
	Press. range kPa (psi)  Flow rate at regulated pressure (L (gal)/hr ⊕ kPa (psi))	62.4 (16.5) @ 350 (51)
Fuel Tank	Flow rate at regulated pressure (L (gal)/hr @	
oump	Flow rate at regulated pressure (L (gail/hr @ kPa (psi))	
Fuel Tank	Flow rate at regulated pressure (L (gai)/hr & kPa (psi))	62.4 (16.5) @ 350 (51)
Fuel Tank Capacity refill L (c	Flow rate at regulated pressure (L (gai)/hr & kPa (psi))	62.4 (16.5) @ 350 (51) 57.6 (15.2)
Fuel Tank Capacity refill L (g	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi)) gallons)	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel
Fuel Tank Capacity refill L (g Location (describ Attachment Material & Mass k	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi)) gallons)	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel Underbody Strap
Fuel Tank Capacity refill L (g. ocation (describ Attachment Material & Mass k	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi)) gallons) e)	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel Underbody Strap Steel
Fuel Tank Capacity refill L (cocation (describe Attachment Material & Mass keriller	Flow rate at regulated pressure (L (gai)/hr @ kPa (psi))  gallons) e)  Location & material  Connection to tank	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel
Fuel Tank Capacity refill L (c. ocation (describ Attachment Material & Mass k Filler Dipe	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallions) e)  tg (weight lbs.)  Location & material  Connection to tank	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses
Fuel Tank Capacity refill L (concation (describent) Attachment Material & Mass keriller pipe Fuel line (material	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12
Fuel Tank  Capacity refill L (cocation (describe)  Attachment  Material & Mass keriller  Filler  Fuel line (material)  Return line (material)	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  a)  al)	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber
Fuel Tank  Capacity refill L (cocation (describentachment)  Material & Mass keriller  Guel line (material)  Guel hose (material)	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  l)  al)	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12  Steel, Nylon 12
Fuel Tank Capacity refill L (co.cation (describ Attachment Material & Mass k Filler Fuel line (material Fuel hose (material Return line (material	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  (l)  all)  rial)  Opt., n.a.	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12
Fuel Tank Capacity refill L (co.ocation (describ Attachment Material & Mass k Filler Fuel line (material Fuel hose (material Return line (material Vapor line (material	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  (l)  al)  rial)  Opt., n.a.  Capacity L (gallons)	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12  Steel, Nylon 12
Fuel Tank Capacity refill L (co.ocation (describ Attachment Material & Mass k Filler Fuel line (material Fuel hose (material Return line (material Vapor line (material	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  cg (weight lbs.)  Location & material  Connection to tank  d)  ial)  rial)  Opt., n.a.  Capacity L (gallons)  Location & material	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12  Steel, Nylon 12
Fuel Tank Capacity refill L (cocation (describ Attachment Material & Mass k Filler pipe Fuel line (material Fuel hose (material Return line (material Vapor line (material	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  al)  rial)  Opt., n.a.  Capacity L (gallons)  Location & material  Attachment	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12  Steel, Nylon 12  Not Applicable
Fuel Tank Capacity refill L (c	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  al)  rial)  Opt., n.a.  Capacity L (gallons)  Location & material  Attachment  Opt., n.a.	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12  Steel, Nylon 12
Fuel Tank Capacity refill L (c Location (describ Attachment Material & Mass k Filler pipe Fuel line (material Return line (materi Return line (materi	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))  gallons)  e)  Location & material  Connection to tank  al)  rial)  Opt., n.a.  Capacity L (gallons)  Location & material  Attachment	62.4 (16.5) @ 350 (51)  57.6 (15.2)  Rear Center Underside, R.H. Rear Quarter Panel  Underbody Strap  Steel  Right Rear Quarter Panel - Steel  Hoses  Steel, Nylon 12  Rubber  Steel, Nylon 12  Steel, Nylon 12  Not Applicable

Slotr switch or valve
Separate fill

Vehicle Line	CAV	ALIER			
Model Year	1994	Issued	9 <b>-93</b>	Revised(*)	

METRIC (U.S. Customary)

**Engine Description Engine Code** 

2.2 LITER L4 (133 CID) MULTI-PORT FUEL INJECTION RPO LN2

Vehicle E	Emission C	<u>ontrol</u>	i	
	Type (air inject modifications,	ion, engin other)	•	CCC Control
		Pump or	puise	Not
	l	Driven b	ay .	Applicable
	Air injection	Air distri (head, m etc.,)	ribution nanifold,	n
	l'	Point of	entry	"
	Exhaust Gas	Type (co flow, op orifice, o		Negative Back Pressure EGR Valve With Integral Transducer And Single Shaft Cross Hole
	Recircu- lation	Exhaus	t source	#4 Cylinder At Cylinder Head
Exhaust Emission Control		(spacer,	f exh.inj. , carb., d, other)	Inlet Manifold
		Туре		3-Way Monolith
		Number	rof	1
		Location	n(s)	Mounted To Center Underbody
	Catalytic Converter	Volume	L (cu.in)	1.8 (110)
		Substra	ite type	Monolith
		Noblen	netal type	Platinum (Pt), Rhodium (Rh)
		Nobie m concent (g/cu. ci	tration	.000948
	Type (ventilates to atmosphere, induction system, other)			Induction System
Crankcase Emission Control	Energy source vacuum, carbu	s (manifold uretor, oth	d ner)	Manifold Vacuum
	Discharges to manifold, oth	(intake er)		Intake Manifold
	Air init(breath	er cap,oti	ner)	Air Cleaner Outlet Duct
Evapora-	Vapor vented	to	Fuel tank	Canister
tive Emission	(crankcase, canister,othe	:r)	Carburetor	-
Control	Vapor storage	e provision	л	Charcoal
Electron-	Closed loop (	yes/no)		Yes
ic S <b>ystem</b>	Open loop (yes/no)			No

Fngine - Fxhaust System

	- Exnaust System	
Type (single dual, other)	, single with cross-over,	Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		1, Reverse Flow
Resonator	io. & type	None
	Branch o.d., wall thickness	••
Exhaust pipe	Main o.d., wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
	Mati. & Mass kg (wght.ibs.)	Stainless Steel
Inter-	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
mediate pipe	Mati. & Mass kg (wght.ibs.)	Stainless Steel
Tail	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
pipe	Mati. & Mass kg (wght.ibs.)	Stainless Steel

Vehicle Line	CAVAL	CAVALIER			
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#### METRIC (U.S. Customary)

Engine Description
Engine Code

2.2 LITER L4 (133 CID)

MULTI-PORT FUEL INJECTION RPO LN2

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

Not Applicable
Standard Isuzu /Japan (MK7)
Not Applicable
Optional, General Motors Powertrain / U.S.A.
Not Applicable

#### Manual Transmission/Transaxie

Number of fo	orward speeds	5				
	1st	3.91				
	2nd	2.15				
Gear	3rd	1.45				
ratios	4th	1.03				
	5th	0.74				
	6th					
	Reverse	3.58				
Synchronou	s meshing (specify gears)	1-5				
Shift lever le	ocation	Floor				
Trans. case	mat'i. & mass kg (lbs)*	Aluminum 36.5				
	Capacity L (pt.)	1.9 (4.0)				
Lubricant	Type recommended	Synchromesh Transmission Fluid (STF)				

#### Clutch (Manual Transmission)

Clutch man	ufacturer		Daikin			
Clutch type (dry, wet; single, multiple disc)			Dry Disc, Single			
Linkage (hy	rd., cable, rod, lever,other)		Hydraulic			
	effort (nom.	Depressed	133.4 (30.0)			
spring load)	) N (lbs.)	Released	115.6 (26.0)			
Assist (spri	ng, power/percent, nominal	)	None			
Type pressi	ure plate springs		Diaphragm			
Total spring	load (nominal) N (lbs.)		5688 (1279)			
	Facing mfgr. & mati. co	ding	Valeo F202			
	Facing matl. & constru	ction	F202			
	Rivets per facing		16			
	Outside x inside dia. (n	om.)	215.0 x 150.0 (8.46 x 5.91)			
Clutch	Total eff.area sq cm(sc	in)	186.3 (28.88)			
facing	Thickness (pressure p side/fly wheel side)	late	3.5 (.14) Pressure Plate Side, 3.2 (.13) Flywheel Side			
	Rivet depth (pressure side/fly wheel side)	piate	1.3 (0.05) / 1.2 (0.05)			
	Engagement cushion	method	Driven Plate, Wave Spoke Springs			
Release be	earing type & method lub.		Self Centering, Angular Contact Ball Bearing - Prepacked & Sealed			
Torsional d hysteresis	damping method, springs,		Coil Springs With Non-Metal Friction Control			

 $<sup>\</sup>ensuremath{^{\circ}}$  includes shift linkage, lubricant, and clutch housing. If other specify,

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Vehicle Line **CAVALIER** 1994 Model Year \_ Revised 9-93 ssued

METRIC (U.S. Customary)

**Engine Description** 

2.2 LITER L4 (133 CID)

Engine Code		MULTI-PORT FUEL INJECTION RPO LN2				
Automatic	Transmission/Transaxi	Θ				
Trade Name		3T40 Transaxie Assembly				
Type and specia	l features (describe)	3-Speed Automatic, Fully Automatic Shifted Planetary Gear W/Torque Converter And Lock-Up Clutch				
Shift mechanics		Sycronous				
	Location (column, floor, other)	Column & Floor				
Gear selector	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1				
	Shift interlock (yes, no, describe)	Yes				
	1st	2.84				
	2nd	1.60				
	3rd	1.00 (Converter Clutch Engagement)				
Gear	4th	Not Applicable				
ratios	5th	п				
	8th	71				
	Reverse	2.07				
	Final drive ratio	2.84				
Max. upshift ve range km/h (mp	hicle speed - drive	2 - 3 = 143 (89)				
Max. upshift engine speed RPM		6200				
	speed – drive range	3 - 2 = 137 (85)				
Min. overdrive	speed km/h (mph)	Depends On Axle Application				
	Туре	Lock-Up				
	Torus design	Yes				
	Number of elements	3				
Torrus	Max. ratio at stall	2.48				
Torque converter	Type of cooling (air, liquid)	Liquid				
	Nominal diameter	245 (9.8)				
	Capacity factor "K"*	203				
Pump type		Positive Variable Displacement Vane				
	Capacity refill L (pt.)	8.5 (17.85) Dry Transmission, Original Filling				
Lubricant	Type recommended	Dexron II				
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral Part Of Radiator				
Trans. mass kg (ibs) & case mati.**		65.7 (144.54) Dry Weight				
All Wheel	/ 4 Wheel Drive	(NOT APPLICABLE)				
Desc. & type (p	art-time, full-time, moving, mech., elect.,					
Transfer	Manufacturer and model					
	Type and location					
Low-range gea	r ratio					
System discon	nect (describe)					
Center	Type (bevei, planetary, w or w/o viscous bias, torsen etc.)					

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Torque split(% frt/rear)

<sup>\*</sup> input speed / square root of torque.
\*\* Dry weight including torque converter. If other, specify.

Vehicle Line	CAVA	LIER			
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### METRIC (U.S. Customary)

Engine Description
Engine Code

2.2 LITER L4 (133 CID)

MULTI-PORT FUEL INJECTION RPO LN2

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

Effective final drive ratio (or overall top gear ratio)			MK7 3.45 (2.55)	MD9 2.84
Trnsfr ratio and method(chain,gear,etc)			1.00 Chain	
Front drive unit	Ring gear o.d.		Not Applicable	
	No. of teeth	Pinion	11	
		Ring gear	11	

#### **Front Drive Unit**

Description (integral to trans., etc.)		Planetary Final Drive - Integral With Transmission
Limited slip differential (type)		Not Applicable
	Туре	11
Drive pinion	Offset	77
No. of differential pinions		2
Pinion/	Adjustment (shim, etc.)	Not Applicable
differential	Bearing adjustment	"
Driving whee	el bearing (type)	
	Capacity L (pt.)	See Automatic Trans. Spec.
Lubricant	Type recommended	11

### Axie Shafts - Front Wheel Drive

				Saginaw Division, 2		
Manufacturer	and number u	sed				
Type (straight, solid bar, tubular, etc.)		Left	Straight - Solid			
wouldr, etc.)	Right		Right	Straight - Solid		
	Manual tran		Left	23.8 x 320.0		
Outer diam. x	Manual tran	Saxie	Right	23.8 x 663.0		
length* x wall			Left	23.8 x 311.0		
thickness	Automatic t	ransaxie	Right	23.8 x 364.3		
			Left			
	Optional tra	nsaxie	Right			
	Туре					
Slip yoke	Number of	teeth				
	Spline o.d.					
	inner		Inner	Saginaw Division		
	Make and n	ifg. no.	Outer	Saginaw Division		
	Numberuse	Numberused		Inboard & Outboard On Each Axle Shaft		
			Inner	Tripot - 61.0 Stroke		
Universal	Type, size,	Type, size, plunge		Rzeppa - Fixed Center		
joints	Attach (u-t	oolt, clamp, etc.)		Retaining Ring		
		Type (plain,		Inner - Ball & Roller		
		anti-friction)		Outer - Ball		
	Bearing	Lubrication				
		(fitting, prepack)		Prepacked		
Drive taken through (torque tube, arms or springs)						
			Wishbone Lower Control Arm, Upper MacPherson Strut			
	through (toro	ue tube,				
arms or sprin	gs)			Engine Mounting System		

<sup>\*</sup> Centerline to centerline of universal joints, or to centerline of attachment.

METRIC (U.S. Customary)

Mo Er

Vehicle Line	CAVALI	ER			
Model Year	1994	Issued	9 <b>-93</b>	Revised(*)	

odel Code/Description And/Or	BASE
ngine Code/Description	DASE

C			Electronic Controls
Suspens		- General Including I	LIECTRONIC CONTROLS
		d./opt./not avail.	
	-	anual/automatic control	
	<b></b>	pe (air/hydraulic)	
Car eveling	-	imary/assist spring	
-		ear only/4 wheel leveling	
		ngle/dual rate spring	
		ngle/dual ride heights	D. d. Josh & Bada On Danton
		ovision for jacking	Body Jack & Pads On Rocker
	Sta	andard/option/not avail.	
	Ma	anuai/automatic control	
	Nu	imber of damping rates	
Shock absorber damping	Typ	pe of actuation (manual/ actric motor/air, etc.)	
controls	s	Lateral acceleration	
	e n	Deceleration	
	S O	Acceleration	
	r	Road surface	
	Тур		Front - MacPherson Strut; Rear - Double Acting Hydraulic
Shock absorber		ake	Delco Products
(front & rear)		ston diameter	Front: 32 (1.26) Rear: 25 (.98)
104.,	-	od diameter	Front: 22 (.87) Rear: 13 (.51)
Suspens			Them are her)
Juspen	3101.	- 110iii	
Type and des	scriptio	ın	MacPherson Strut With Coil Spring
Travel	Fu co	ull jounce (define load ondition)	82 (3.23) (From Design)
	Fu	ull rebound	87 (3.43) (From Design)
	Ту	ype,(coil,leaf,other&matl)	Coil, Steel
	ln/	sulators (type & mati)	Top & Bottom - Rubber
Spring	Co	ize (Leaf: length & width; oil: design height & i.d.; ar: length & diameter)	Spring Computer Selected - Varies With Option Content
		pring rate N/mm(lb./in.)	20
	<u> </u>	late @ wheel N/mm(lb./in)	17.5
	+-	ype (link,Inkless,frmless)	Link
Stabilizer	Material & O.D. bar/tube, wall thickness		Steel 22 MM
Suspens			
Type and de			Trailing Stamped Control Arms With Twist Beam
Travel	Fu	ull jounce (define load ondition)	86.6 (3.41) (From Design)
	Fi	ull rebound	112.7 (4.44) (From Design)
	Ţ,	ype(coil,leaf,other&matl)	Coil, Steel
	Cc	iize (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter	Spring Computer Selected - Varies With Option Content
Spring	S,	opring rate N/mm (lb/in)	23, Variable
	R	Rate @ wheel N/mm (lb/in)	11.1, Variable
			T 00 H 5 11

Insulators(type & material) No. of leaves Shackle(comp or tens)

Type(link,lnkless,frmless)

Material & O.D. bar/tube, wall thickness

Track bar (type)

Stabilizer

Top & Bottom - Rubber

<sup>\*</sup> Define load condition:

Vehicle Line	CAVALIE	ER			
Model Year	1994	Issued	9 <b>-93</b>	Revised(*)	

METRIC (U.S. Customary)

Model (	Code/Description And/Or
Engine	Code/Description

	***************************************	 	 
<b>NLL</b>			

Tires And Wheels (Standard)

mes Am	a wneels (Si	andara					
	Size (service de	escription)	P185/75R14				
	Type (bias, rad	ial, etc.)	Steel Belted Radial				
Tir <b>es</b>	Inflation pres- sure (cold) for	Front kPa (psi)	240 (35)				
	recommended max. vehicle load	Rear kPa (psi)	240 (35)				
	Rev/mile-at 70	) km/h(45mph)	519				
	Type & materia	ıi	Stamped/Styled Steel				
	Rim (size & flar	nge type)	14 x 6 J				
	Wheel offset		47.0 (1.9)				
Wheels		Type (bolt or stud & nut)	Stud				
	Attachment	Circle diameter	100.0 mm (3.94 in.)				
		Number & size	5-12 mm				
Spare	Tire and wheel		T115/70D14 Wheel Diameter 14 x 4, Inflation 420 (60 PSI)				
	Storage positi		Under Deck Of Luggage Compartment				

#### Tires And Wheels (Optional)

Tire size (service description)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	Aluminum
Rim (size, flange type and offset)	15 x 6 J
Tire size (service description)	P205/60R15
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (service description)	P195/70R14
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial
Wheel (type & material)	
Rim (size, flange type and offset)	
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  Location of control		Grip Handle
		Between Front Seats
Operates on		Rear Service Brakes
If separate from service brakes	Type(internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

METRIC (U.S. Customary)

Model Code/Description And/Or Engine Code/Description

Vehicle Line	CAV	ALIER			
Model Year	19 <b>94</b>	issued	9 <b>-93</b>	Revised(*)	
BASE					

Wheel Alianment

Wileel All	<del></del>	T	No. Adv. cashin
		Caster (deg.)	Not Adjustable
	Service	Camber (deg.)	0 (+/-) .7 Cross Car Must Be Within 1.0
	checking	Toe-in outside track - mm (in.)	0 (+/-) .2 Sum Toe
Front wheelat		Caster (deg.)	Not Adjustable
curb mass (wt.)	Service reset*	Camber (deg.)	0 (+/-) .7 Cross Car Must Be Within 1.0
		Toe-in - mm(in.)	1 to + .1 (Degrees Per Wheel)
		Caster (deg.)	Not Applicable
	Periodic M.V. in-	Camber (deg.)	n
	spection	Toe-in - mm(in.)	n
		Camber (deg.)	n
Rear	Service checking	Toe-in outside track - mm (in.)	п
wheel at curb mass	Service	Camber (deg.)	n
(wt.)	reset*	Toe-in - mm(in.)	n
	Periodic	Camber (deg.)	11
	M.V. in- spection	Toe-in - mm(in.)	n

<sup>\*</sup> Indicates pre-set, adjustable, trend set or other.

### Electrical - Instruments and Equipment

2100111041							
Speed-	Type (analog, digital, std., opt.)		Analog Electric				
ometer	Trip odometer (std., opt., n.a.)		Gage Only				
	Std., opt., not avai	il.	Not Available				
Head-up display	Type - Second	ary, ectronic	"				
	Speedometer	Digital	11				
	Status/warn. indic Turn signals, high low fuel, check ga	beam,	н				
	Brightness control	Day/night mode, adj.	19				
EGR maintenanc	e indicator		Not Available				
	Type		Tell-Tale Warning Lamp				
Charge indicator	Warning device (light, audible)		Lamp	None			
Temperature indicator	Туре		Tell-Tale Warning Lamp-Check Gage	Gauge			
	Warning device		Lamp	None			
Oil	Туре		Tell-Tale Warning Lamp	Gauge			
pressure indicator	Warning device		Lamp	None			
Fuel	Туре		Gauge	Gauge			
indicator	Warning device		Lamp	None			
	Type (standard)		Electric 2-Speed				
Wind-	Type (optional)		Pulse Wiper	Pulse Wiper			
shield wiper	Blade length		432 (17)				
	Sweptarea sq cm	ı (sq in)	5181 (803) Cpe/5230 (811)Sed & Wag				
	Type (standard)		Elec. Pump Mtd On Reservoir Bottle				
Wind- shield	Type (optional)		None				
washer	Fluid level indicat	or	None				
Rear window wi (std., opt., n.a.)	per, wiper/washer		Not Available				
	Туре		Electric Vibrating				
Horn	Number used		1				
			Indicator Lamps For Parking Brake And Brake	Failure, Fasten Belt, Upshift,			
Other			Check Engine, Low Coolant, High Beam, Left And Right Turn And Gate Ajar				

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Vehicle Line	CAV	ALIER			
Model Year	1994	Issued	9 <b>-93</b>	Revised(*)	

METRIC (U.S. Customary)

Engine	Code/Description	•

3.1 LITER V6 (191 CID)

MULTI-PORT FUEL INJECTION RPO LHO

Elect	trica	I – S	up	ply	Sys	tem
-------	-------	-------	----	-----	-----	-----

	Manufacturer	Delco Remy
	Model, std., (opt.)	Standard
	Voltage	12
Battery	Amps at 0 deg F cold crnk	525
	Minutes-reserve capacity	90
	Amps/hrs 20 hr. rate	54
	Location	Underhood Front
Alternator	Manufacturer	Delco Remy
	Rating(idle/max rpm dr.)	36/100
	Ratio (alt. crank/rev.)	2.65:1
	Output at idle (rpm, park)	66 Amps @ 27 Deg. C. 850 RPM
	Optional (type & rating)	None
Regulator	Туре	Integral To Alternator

Electrical - Starting System

	Manufacturer	Delco Remy
Motor	Curr.dr29 (-20) deg C(F)	350 Amps
	Power rating kw (hp)	1.4
	Engagement type	Solenoid Operated Shift Lever
Motor drive	Pinion engages from (front, rear)	Front

Electrical - Ignition System

_	Electronic (std. opt.n.a.)		Elect Direct Ignition(Std)-Cntl Mod W/3 Integral Coils & 1 Remot Timing Sen		
Type	Other (spec	cify)			
Manufa	Manufactu	rer	Delco Remy		
	Model		1103759		
Coil		Engine stopped-A	Less Than 100 ma		
	Current	Engine idling - A	Less Than 1.5 Amp (Average)		
	Manufactu	rer	AC/Rochester Products		
	Model		R44LTSM		
	Thread (mr	n)	14 x 1.25		
Spark plug	Tightening Newton me	torque eters (ib. ft.)	9-20 (7-15)		
	Gap		1.14mm (.045 in.)		
	Number pe	r cylinder	1		
	Manufactu	rer	Not		
Distributor	Model		Applicable		

Locations & type

Not Available

	•

Vehicle Line CAVALIER Model Year 1994 9**-93** issued Revised(\*)

#### METRIC (U.S. Customary)

Model Code/Description	BASE

#### Restraint System Seating Position Left Center Right Type & description (lap & shoulder belt, lap beit, etc.) First seat Lap/Shoulder Second seat Lap/Shoulder Active Lap Belt Combination Combination Standard/ Third optional seat Type & description (air bag, motorized-First seat 3-Point Door Mounted 3-Point Door Mounted 2-point belt, fixed belt, knee bolster, manuai-lap belt) Second seat Standard/ Third optional SAE Glass Ref No 37 69 Windshield glass exposed surface area sq. cm. (sq. S1 7487 (1161) 7487 (1161) Side glass exposed surface area sq. cm. (sq. in.) – total 2- sides S2 9050 (1403) 10678 (1655) Backlight glass exposed surface area sq. cm. (sq. in.) S3 5154 (799) 5691 (882) Total glass exposed surface area sq. cm. (sq. in.) S4 21691 (3363) 23856 (3698) Windshield glass (type/thickness) Curved - Laminated Float Side glass (type/thickness) Curved - Tempered Float Backlight glass Curved - Tempered Float All Glass Tinted Tinted (yes/no, location) Solar control (yes/no, coated/batched, location) Headlamps Description – sealed beam, halogen, replaceable bulb, etc. Replaceable Bulb - 2 Lamps - 1 Bulbs Each Rectangular Lo-beam type (2A1, 2B1, 2C1, etc.) HB<sub>1</sub> 2 Quantity Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)

Quantity

HB<sub>1</sub> 2

Vehicle Line	CAV	ALIER			
Model Year	19 <b>94</b>	issued	9 <b>-93</b>	Revised	

### METRIC (U.S. Customary)

Engine Code/Description BASE

Climate Control System           Air conditioning(std., opt., man., auto.)         Optional           Tube & Fin           Condenser         Eff. face area (sq. mm.)         249,860         222,930 LH0           Fins per inch         17           Type         3-5-5 Parrallel Rib S Flow           Eff. face area (sq. mm.)         45,050           Fins per inch         14           Heater Core         Eff. face area (sq. mm.)         29,210           Fins per inch         38           Type         Five Cylinder - Variable Displacement           Displacement (cc)         136         147           Manufacturer         Harrison Division           A/C pulley ratio         125.22         119.91           Accumulator         Yoe         Standard Full-Size, Single "O" Ring, R-12 Desiccant           Height (mm.)         231           Diameter (mm.)         93.5 (Top Shell) 88.8 (Bottom Shell)           Type         None	
Type	
Eff. face area (sq. mm.)   249,860   222,930 LH0	
Fins per inch   17	
Type   3-5-5 Parrallel Rib S Flow	
Evaporator Eff. face area (sq. mm.) 45,050  Fins per inch 14  Material Aluminum  Eff. face area (sq. mm.) 29,210  Fins per inch 38  Type Five Cylinder - Variable Displacement  Displacement (cc) 136 147  Manufacturer Harrison Division  A/C pulley ratio 125.22 119.91  Type Standard Full-Size, Single "O" Ring, R-12 Desiccant  Height (mm.) 231  Diameter (mm.) 93.5 (Top Shell) 88.8 (Bottom Shell)	
Fins per inch   14	
Material   Aluminum	
Eff. face area (sq. mm.)   29,210	
Fins per inch   38	
Type	
Displacement (cc)   136   147	
Compressor         Manufacturer         Harrison Division           A/C pulley ratio         125.22         119.91           Type         Standard Full-Size, Single "O" Ring, R-12 Desiccant           Height (mm.)         231           Diameter (mm.)         93.5 (Top Shell) 88.8 (Bottom Shell)	
Manufacturer	
Type         Standard Full-Size, Single "O" Ring, R-12 Desiccant           Accumulator         Height (mm.)         231           Diameter (mm.)         93.5 (Top Shell) 88.8 (Bottom Shell)	
Accumulator Height (mm.) 231  Diameter (mm.) 93.5 (Top Shell) 88.8 (Bottom Shell)	
Diameter (mm.) 93.5 (Top Shell) 88.8 (Bottom Shell)	
Type None	
Receiver Height (mm.)	
Diameter (mm.) 77	
Refrigerant control (CCOT, TVS, etc.)	
Heater water valve (yes / no) No	
Refrigerant (R - 12, R - 134a, etc.)	
Charge level (lbs oz.) 2.25	
Cold engine lockout switch (yes / no) No	
Wide open throttle cutout switch (yes / no) Yes	

Vehicle Line CAVALIER

Model Year 1994 Issued 9-93 Revised(\*)

METRIC (U.S. Customary)

BASE			

Deck lid(release, pull down)		(release, puil down)	(A59) Optional Manual Release
		eks (manual, auto., e system)	(AU4) Standard Automatic Door Lock/Unlock
		2-4-6 way, etc.	NA
		Reclining(R.H., L.H.)	NA
		Memory (R.H., L.H., preset, recline)	NA
Power equipment	Seats	Support (lumbar, hip, thigh, etc.)	NA
		Heated (R.H., L.H., other)	NA NA
	Side wii	ndows	(A31) Optional Standard On Convertibles
	Vent wi	ndows	NA
	Rear wi	ndows	NA .
	Antenna w/shiei	(location, whip, d, power)	(US6) Standard Fixed RH Front Fender
	Stan.		(UL5) Radio Delete On VL (UM7) AM/FM Stereo, Seek/Scan, Clock & ETR
Radio systems	Opt.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	
			(UM6) AM/FM Stereo, Seek/Scan, Clock, ETR & Caassette
			(U1C) AM/FM Stereo, Seek/Scan, Clock & Compact Disc
	Speake	r (number, location)	(U66) Standard 4, Dual Front Dash Mtd., Dual Rear Shelf Extd. Rge.
Roof: open a sliding, 'T')	ır or fixed (	flip-up,	(AD3) Optional Hinged Coupe Only
Speed contro	ol device		(K34) Optional
Speed warn.	dev. (light	, buzzer, etc.)	NA NA
Tachometer (rpm)			(U2B) Standard JF Optional JC
achometer	(rpm)		(GEB) Claired of Optional CC

#### **Trailer Towing**

Towing capable	Yes / No	No
Engine/transmission/axle	Std / Opt	
Tow class (i, ii, iii)*	Std / Opt	
Max. gross trailer wgt. (ibs.)	Std / Opt	
Max. trailer tongue load (lbs.)	Std / Opt	
Towing package available	Yes / No	No

<sup>\*</sup> Class i - 2,000 lbs.

Class II - 3,500 lbs.

Class III - 5,000 lbs.

Vehicle Line CAVALIER

Model Year 1994 Issued 9-93 Revised(\*)

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.

Body Type CONVERTIBLE

Width	SAE Ref. N	lo.
Tread (front)	W101	1417 (55.8)
Tread (rear)	W102	1438 (56.6)
Vehicle width	W103	1684 (66.3)
Body width at Sg RP (front)	W117	1652 (65.0)
Vehicle width (front doors open)	W120	3740 (147.2)
Vehicle width (rear doors open)	W121	Not Applicable
Tumble-home (deg.)	W122	22
Outside mirror width	W410	1954 (76.9)

#### Length

L101	2574 (101.3)
L103	4630 (182.3)
L104	1053 (41.5)
L105	1004 (39.5)
L123	2513 (98.9)
L127	4356 (171.5)
	L103 L104 L105 L123

#### Height \*\*

Passenger distribution (front/rear)	PD1,2,3	2/0
Trunk/cargo load		0
Vehicle height	H101	1325 (52.2)
Cowl point to ground	H114	932 (36.7)
Deck point to ground	H138	971 (38.2)
Rocker panel-front to ground	H112	217 (8.6)
Rocker panei-rear to ground	H111	211 (8.3)
Windshield slope angle (deg.)	H122	59
Backlight slope angle (deg.)	H121	63

#### Ground Clearance \*\*

arouna oroaranoo		
Front bumper to ground	H102	238 (9.4)
Rear bumper to ground	H104	271 (10.7)
Bumper to ground front at curb mass (wt.)	H103	255 (10.0)
Bumper to ground rear at curb mass (wt.)	H105	294 (11.6)
Angle of approach (deg.)	H108	-26.3
Angle of departure (deg.)	H107	20
Ramp breakover angle (deg.)	H147	14
Axle differential to ground (front/rear)	H153	
Min. running ground clearance	H156	154 (6.1)
Location of min. run. grd. clear.		Exhaust System /

<sup>\*\*</sup> 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.

All Linear Dimensions Are in Millimeters (inches)

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Vehicle Line **CAVALIER** Model Year 1994 Issued 9**-9**3 Revised(\*)

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

**Vehicle Dimensions** 

See Key Sheets for Definitions

**Body Type** 

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**SEDAN** WAGON

Front Compartment	SAE Ref.	!. No.				
SgRP front, 'X' coordinate	L31	3113 (122.6)				
Effective head room	H61	994 (39.1)	988 (38.9)			
Max. eff. leg room (accelerator)	L34	1070 (42.1)				
SgRP to heel point	H30	236 (9.3)				
SgRP to heel point	L53	870 (34.3)				
Back angle (deg.)	L40	25				
Hip angle (deg.)	L42	97				
Knee angle (deg.)	L44	127				
cot angle (deg.)	L46	87				
Design H-point front travel	L17	188 (7.4)				
Normal driving & riding seat track trvl.	L23	168 (6.6)				
Shoulder room	W3	1339 (52.7)				
Hip room	W5	1221 (48.0)				
Upper body opening to ground	H50	1240 (48.8)	1251 (49.3)			
Steering wheel maximum diameter*	W9	364 (14.3)				
Steering wheel angle (deg.)	H18	19				
Accel. heel pt. to steer. whi. cntr	L11	Not Available				
Accel, heel pt. to steer, whi, cntr	H17	789 (31.1)				
Undepressed floor covering thickness	H67	12 (.5)				

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt.

Rear Compartment		(SgRP) 21 mm (1 Seat	Adjuster Notch) Forward of Rearmost Seat Position.
SgRP point couple distance	L50	758 (29.8)	741 (29.2)
Effective head room	H63	950 (37.4)	977 (38.5)
Min. effective leg room	L51	846 (33.3)	826 (32.5)
SgRP (second to heel)	H31	278 (10.9)	266 (10.5)
Knee clearance	L48	-8 (3)	-17 (7)
Shoulder room	W4	1338 (52.7)	
Hip room	W6	1240 (48.8)	1245 (49.0)
Upper body opening to ground	H51	1242 (49.0)	1257 (49.5)
Back angle (deg.)	L41	26	25
Hip angle (deg.)	L43	83	81
Knee angle (deg.)	L45	85	83
Foot angle (deg.)	L47	117	
Depressed floor covering thickness	H73	14 (.6)	

#### **Luggage Compartment**

	Usable luggage capacity L (cu. ft.)	V1	374 (13.2)	
***	Liftover height	H195	824 (32.4)	549 (21.6)

#### Interior Volumes (EPA Classification)

Vehicle class	Compact	Small
Interior volume index (cu. ft.)**	101.4	122.5
Trunk / cargo index (cu. ft.)	13.2	34.4

All Linear Dimensions Are in Millimeters (inches)

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<sup>\*</sup> See page 14. \*\* Includes passenger and trunk / cargo index - see definition page 32. \*\*

<sup>\*\*\*</sup> EPA Loaded Vehicle Weight, Loading Conditions

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		·

Vehicle Line	CAV	ALIER			
Model Year	1994	Issued	9 <b>-93</b>	Revised(*)	

### METRIC (U.S. Customary)

Model	Code/
Descri	ntion

ALI
ALL

#### **Vehicle Fiducial Marks**

iducial M Number*	lark		Define Coordina	te Location	
		X - Fiducial Mark To Vertical Zero ( Grid Line To The Front Fiduci		ed Horizontally, From The Zero Of The front Seat Adjuster Mounting Bolt.	
				The same seasons, as a season we can all great and a season which are great and a season we can all great and a season which are great and a season	
ront		Y - Fiducial Mark To Centerline Of Fiducial Mark Located On To		urement Made From Centerline Car To ster Mounting Belt.	
		Z - Fiducial Mark To Horizontal Zer	ro Grid Line - Front Mea	sured Vertically From Zero Grid	
		1	·	ront Seat Adjuster Mounting Belt.	
		X - Fiducial Mark To Vertical Zero		ed Horizontally From The Zero Grid	
		Line to Rear Floudial Mark L	ocaled on the flair (with	paramont an conglication.	
Rear			Car - Rear, Width Meas	urement Made From Centerline Of Car To	
Rear		Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zer	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea	urement Made From Centerline Of Car To	
NOTE: Pro 3 of 4 Fiducial Ma		Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zer	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea	urement Made From Centerline Of Car To n - Longitudinal). sured Vertically From The Zero Grid	
IOTE: Prov of 4 iducial Ma		Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zer	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea	urement Made From Centerline Of Car To n - Longitudinal). sured Vertically From The Zero Grid	
NOTE: Pro 3 of 4 Fiducial Ma		Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zer Line To Rear Fiducial Mark L	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal). sured Vertically From The Zero Grid npartment Pan - Longitudinal).	
NOTE: Prov 3 of 4 Fiducial Ma	ark	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zen Line To Rear Fiducial Mark L BASE-COUPE-CONVERTIBLE	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal). sured Vertically From The Zero Grid npartment Pan - Longitudinal).	
NOTE: Provi of 4 iducial Ma ocations	w21**	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zen Line To Rear Fiducial Mark L BASE-COUPE-CONVERTIBLE 505 (19.9) 2746 (108.1) 252 (9.9)	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal). sured Vertically From The Zero Grid npartment Pan - Longitudinal).	
NOTE: Pro 3 of 4 iducial Ma ocations	W21*** L54** H81***	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On The Z - Fiducial Mark To Horizontal Zentine To Rear Fiducial Mark Located Mark Located On The Z - Fiducial Mark To Horizontal Zentine To Rear Fiducial Mark Located On The Located Mark Located On The Located Mark Located On The	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal).  sured Vertically From The Zero Grid npartment Pan - Longitudinal).  STATION WAGON  296 (11.7)	
NOTE: Pro 3 of 4 Fiducial Ma Locations	W21** L54** H81**	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zen Line To Rear Fiducial Mark L BASE-COUPE-CONVERTIBLE 505 (19.9) 2746 (108.1) 252 (9.9)	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal). sured Vertically From The Zero Grid npartment Pan - Longitudinal).  STATION WAGON	
NOTE: Pro 3 of 4 iducial Ma ocations	W21*** L54** H81***	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On The Z - Fiducial Mark To Horizontal Zentine To Rear Fiducial Mark Located Mark Located On The Z - Fiducial Mark To Horizontal Zentine To Rear Fiducial Mark Located On The Located Mark Located On The Located Mark Located On The	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal).  sured Vertically From The Zero Grid npartment Pan - Longitudinal).  STATION WAGON  296 (11.7)	
NOTE: Pro 3 of 4 iducial Ma ocations	W21*** L54** H81*** H163***	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On Th Z - Fiducial Mark To Horizontal Zer Line To Rear Fiducial Mark L BASE-COUPE-CONVERTIBLE 505 (19.9) 2746 (108.1) 252 (9.9) 287 (11.3) 265 (10.4)	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal).  sured Vertically From The Zero Grid npartment Pan - Longitudinal).  STATION WAGON  296 (11.7)	
NOTE: Pro 3 of 4 Fiducial Ma Locations	W21*** L54** H81** H161** H163**	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On The Z - Fiducial Mark To Horizontal Zelline To Rear Fiducial Mark Located Mark Located On The Line To Rear Fiducial Mark Located On The Loc	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal).  sured Vertically From The Zero Grid npartment Pan - Longitudinal).  STATION WAGON  296 (11.7)	
	W21*** L54** H81** H161** H163**  W22** L55**	Y - Fiducial Mark To Centerline Of Fiducial Mark Located On The Z - Fiducial Mark To Horizontal Zerbine To Rear Fiducial Mark Located Mark Located On The Z - Fiducial Mark To Horizontal Zerbine To Rear Fiducial Mark Located On The Located	Car - Rear, Width Meas e Rail (Compartment Pal ro Grid Line - Rear, Mea ocated On The Rail (Con	urement Made From Centerline Of Car To n - Longitudinal).  sured Vertically From The Zero Grid npartment Pan - Longitudinal).  STATION WAGON  296 (11.7)	

<sup>\*</sup> Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

<sup>\*\*</sup> Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.

<sup>\*\*\*</sup> EPA Loaded Vehicle Weight, Loading Conditions.
All Linear Dimensions Are in Millimeters (inches).

Vehicle Line	CAV	ALIER			
Model Year	1994	issued	9 <b>-9</b> 3	Revised	

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

### Optional Equipment Differential Mass (weight)\*

				interential mass (weight)*		
			MASS, kg. (II		Remarks	
ode	Equipment	Front	Rear	Total	Restrictions, Requirements	
<b>A31</b>	Power Windows	1.0	1.8	2.8		
		(2.2)	(4.0)	(6.2)		
AH3	4-Way Seat Adj.	.9	.3	1.2		
1110		(2.0)	(.7)	(2.7)		
A31	Power Windows	1.8 (4.0)	3.2 (7.0)	5.0 (11.0)		
		(4.0)	(7.0)	(11.0)		
AD3	Sunroof	3.4	3.8	7.2		
		(7.5)	(8.4)	(15.9)		
B37	Mats, Front & Rear	1.2	1.0	2.2		
D37	wats, Front & Real	(2.7)	(2.7)	(5.3)		
AM9	Split Rear Seat	0	13.1	13.1		
		(0)	(29.0)	(29.0)		
AP9	Convenience Net	0	.4	.4		
		(0)	(.9)	(.9)		
					-10-0-1	
A59	Remote Trunk Lock	0	1.0	1.0		
		(0)	(2.2)	(2.2)		
BF9	Floor Mat	-1.2	-1.0	-2.2		
		(-2.6)	(-2.2)	(-4.8)		
	D. J. Cid. Maldin		10			
B84	Body Side Molding	1.0 (2.2)	1.2 (2.7)	2.2 (4.9)		
K34	Cruise Control	1.8 (4.0)	0 (0)	1.8 (4.0)		
		(4.0)	(3)	(4.0)		
CD4	Pulse Wiper	.2	0	.2		
		(.4)	(0)	(.4)		

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

Vehicle Line	CAVAL	ER			
Model Year	1994	issued	9 <b>-93</b>	Revised	

METRIC (U.S. Customary)

#### Optional Equipment Differential Mass (weight)\*

		Ор	Optional Equipment Differential Mass (weight)						
			MASS, kg. (i						
Code	Equipment	Front	Rear	Total	Remarks Restrictions, Requirements				
UM6	Radio - Cassette	.6	.2	.8					
		(1.3)	(.4)	(1.7)					
UQ1	Provisions For Radio	(0)	.2 (.4)	.2 (.4)					
UQ9	Speaker Delete	4	5	9					
		(9)	(-1.1)	(-2.0)					
U1C	Radio Seek/Scan	1.0	0	1.0					
U1C	Hadio Seek/Scan	(2.2)	(0)	(2.2)					
U2B	Instrument Cluster	.2	0	.2					
		(.4)	(0)	(.4)					
U74	Antenna Delete	2	0	2					
		(4)	(0)	(4)					
VK3	License Plate Mounting	1.0 (2.2)	2 (4)	.8 (1.8)					
V54	Luggage Rack	2.4	5.4	7.4					
		(5.3)	(11.1)	(16.4)					
-									
			-						
		<u> </u>							

<sup>\*</sup> Also see Engine – General Section for dressed engine mass (weight).

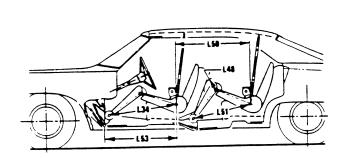
MVMA-94 Page 27B

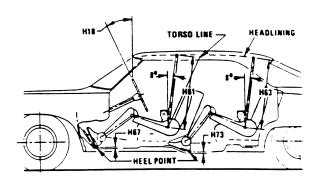
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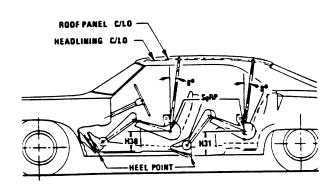
# **MVMA Specifications Form**

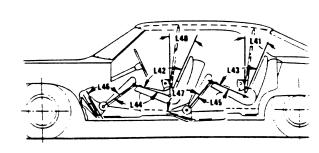
METRIC (U.S. Customary)

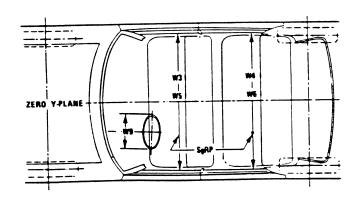
## Interior Vehicle And Body Dimensions - Key Sheet

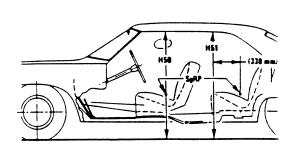












**METRIC (U.S. Customary)** 

#### Exterior Vehicle And Body Dimensions — Key Sheet **Dimensions Definitions**

### Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which -

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;

(b) Has coordinates established relative to the design vehicle structure;

(c) Simulates the position of the pivot center of the human torso and thigh; and

(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations,".

#### Width Dimensions

W101 TREAD - FRONT. The dimension measured between the tire

centerlines at the ground.
TREAD – REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.

VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

BODY WIDTH AT SgRP - FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.

VEHICLE WIDTH - FRONT DOORS OPEN. The dimension W120 measured between the widest point on the front doors in maximum hold-open position.

VEHICLE WIDTH - REAR DOORS OPEN. The dimension W121 measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle W122 measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

OUTSIDE MIRROR WIDTH: The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

#### **Length Dimensions**

WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

VEHICLE LENGTH. The maximum dimension measured L103 longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

OVERHAND - FRONT. The dimension measured longitudi-L104 nally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

OVERHANG - REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

UPPER STRUCTURE LENGTH. The dimension measured L123 longitudinally from the cowl point to the deck point.

REAR WHEEL CENTERLINE "X" COORDINATE or in the L127 case of dual rear axies, the coordinate shall be the midpoin of the distance between the rear axie centerlines.

#### **Height Dimensions**

VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

ROCKER PANEL-REAR TO GROUND. The dimensio measured vertically from the bottom of the rocker or sid quarter panel at the front of the rear wheel opening excluding flanges, to ground.

ROCKER PANEL - FRONT TO GROUND. The dimension

measured vertically from the foremost point on the bottor

of the rocker panels, excluding flanges, to ground.
COWL POINT TO GROUND. Measured at zero "Y" plane H114 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehic:

zero "Y" plane. For curve backlight, the angle is to chor of backlight arc from lower DLO to upper DLO.

WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield a H122 running from the lower DLO to the upper DLO at the vehic zero "Y" plane. In the case of wrap over glass, the ang to be measured will be formed by a chord 457 mm (18.0 ir long drawn from the lower DLO to the intersecting point of the windshield.

DECK POINT TO GROUND. Measured at zero "Y" plane H138 STATICLOAD - TIRERADIUS - REAR. Specified by the m H109 facturer in accordance with composite TIRE SECTIC STANDARD.

#### **Ground Clearance Dimensions**

H102 FRONT BUMPER TO GROUND. The minimum dimensi measured vertically from the lowest point on the fro bumper to ground, including bumper guards, if standa equipment.

FRONTBUMPERTO GROUND - CURB MASS (WT.). Me: H103 ured in the same manner as H102.

REAR BUMPER TO GROUND. The minimum dimensi H104 measured vertically from the lowest point on the n bumper to ground, including bumper guards, if standa equipment.

REAR BUMPER TO GROUND - CURB MASS (WT.). Me H105 ured in the same manner as H104.

ANGLE OF APPROACH. The angle measured between H<sub>106</sub> line tangent to the front tire static loaded radius arc and initial point of structural interference forward of the front to ground. The limiting structural component shall designated.

ANGLE OF DEPARTURE. The angle measured betwee H107 line tangent to the rear tire static loaded radius arc and initial point of structural interference rearward of the rear to ground. The limiting component shall be designated.

RAMP BREAKOVER ANGLE. The angle measured H147 tween two lines tangent to the front and rear tire st loaded radius and intersecting at a point on the unders of the vehicle which defines the largest ramp over which vehicle can roll.

REAR AXLE DIFFERENTIAL TO GROUND. The minim H153 dimension measured from the rear axie differential

MINIMUM RUNNING GROUND CLEARANCE. The II H156 mum dimension measured from the sprung vehicle ground. Specify location.

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

# Interior Vehicle And Body Dimensions — Key Sheet Dimensions Definitions

#### **Luggage Compartment Dimensions**

V1 USABLE LUGGAGE CAPACITY – Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

#### Interior Volumes (EPA Classification)

The interior Volume Index is listed for each body style except two seaters. The Interior Volume Index estimates the space in a car. It is based on four measurements — head room, shoulder room, hip room, and leg room — for the front and rear seats, plus trunk capacity.

The Trunk/Cargo Index is an estimate of the size of the trunk/cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

#### Station Wagon / MPV - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE THIRD. The dimension measured horizontally from the SgRP second to the SgRP third.
- L86 EFFECTIVE LEG ROOM THIRD. The dimension measured along a line from the ankle pivot center to the SgRP third plus 254 mm (10.0 in.).
- L87 KNEECLEARANCE THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51 mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE THIRD. Measured in the same manner as L41.
- L89 HIP ANGLE THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE THIRD. Measured in the same manner as L45
- L91 FOOT ANGLE THIRD. Measured in the same manner as 1.47.
- W85 SHOULDER ROOM THIRD. Measured in the same manner as W4
- W86 HIP ROOM THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM THIRD. The dimension, measured along a line 8 deg. from the SgRP third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP THIRD TO HEEL POINT.
- SD1 SEAT FACING DIRECTION THIRD.

#### Station Wagon / MPV - Cargo Space Dimensions

- L200 CARGO LENGTH OPEN FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH OPEN SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 CARGOLENGTH CLOSED FRONT. The minim dimension measured horizontally from the back of the f seat at the height of the undepressed floor covering to rearmost point on the undepressed floor covering on closed tailgate or taildoor for station wagons, trucks mpv's at the zero "Y" plane.
- L203 CARGO LENGTH CLOSED SECOND. The dimenmeasured horizontally from the back of the second sea the height of the undepressed floor covering to the rearr point on the undepressed floor covering on the clatailgate or taildoor for station wagons, trucks and mpv the zero "Y" plane.
- L204 CARGO LENGTH AT BELT FRONT. The minimum mension measured horizontally from the back of the seatback at the seatback top to the foremost normal sur of the closed tailgate or inside surface of the cab backp at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT SECOND. The minimur mension measured horizontally from the back of the seseatback at the seatback top to the foremost normal sur of the closed tailgate at the height of the belt, on the "Y" plane.
- W201 CARGO WIDTH WHEELHOUSE. The minimum dimer measured laterally between the trimmed wheelhousing floor level. For any vehicle not trimmed, measure to sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The miniting dimension measured laterally between the limiting ferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum mension measured laterally between the limiting ferences of the rear opening at belt height or top of pic
- W205 REAR OPENING WIDTH ABOVE BELT. The mini dimension measured laterally between the limiting ferences of the rear opening above the belt height.
- W500 CARGO WIDTH AT FLOOR. The maximum dimer measured laterally between the limiting interferences a floor level. This dimension shall include ribs and pillars will exclude wheelhouses.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT.
  dimension measured vertically from the horizontal tato the top of the seatback to the undepressed floor cova
- H201 CARGO HEIGHT. The dimension measured vertically the top of the undepressed floor covering to the head at the rear wheel "X" coordinate on the zero "Y" plane
- H202 REAR OPENING HEIGHT. The dimension mea: vertically from the top of the undepressed floor covers the upper trimmed opening on the zero "Y" plane with door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The d sion measured vertically from the top of the undeprofice floor covering on the lowered tailgate to ground on the "Y" plane.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical d sion rear of the front seat from the cargo floor to roc or headlining at the zero "Y" plane.

# METRIC (U.S. Customary)

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## **CAVALIER WAGON**

### \*12,065.00 Model 1JC35 Wagon

#### MUST SPECIFY ENGINE, TRANSMISSION, EMISSIONS MUST ORDER ONE GROUP -- NO DELETIONS ALLOWED

	Base Preferred Equipment Group (Refer Standard Equipment Summary)	JWAB	JWA1
435.00	Preferred Equipment Group 1		
	Steering, Tiltwheel Adjustable Steering Column		X
	Speed Control: Electronic, with Resume Speed		x
	Windshield Wiper System, Intermittent		X

### **ADDITIONAL OPTIONS**

		ACKNOWLEDGEMENTS		RADIO EQUIPMENT
N.C.	R8S	Multiple Order Numbers	V.P.S.	UM6 Electronically Tuned AM/FM
N.C.	R8T	Preliminary Invoice		Stereo Radio w/Seek-Scan,
N.C.	VK3	BRACKET: License Plate, Front		Digital Clock, Stereo Cassette
115.00	V54	CARRIER: Roof (N/A w/JWAB)		Tape, Extended Range Front
		CLIMATE CONTROL		and Rear Speakers
20.00	K05	Heater, Engine Block	V.P.S.	U1C Electronically Tuned AM/FM
		(Note: One of the Following Defogger		Stereo Radio w/Seek-Scan,
		Options Must Be Specified)		Digital Clock, Compact Disc
170.00		Defogger, Rear Window: Electric		Player, Delco-L0c II and Extended
N.C.	H9W	Defogger, Rear Window Not Desired		Front and Rear Speakers
		EMISSIONS (Refer Emission	N.C.	J**2 <b>SEAT TRIM:</b> Sport Cloth Bucket
N.O		RequirementTab Section)	N.C.	MX1 TRANSMISSION: 3-Speed Auto
N.C.		Federal Emission Requirements	330.00	A31 WINDOWS: Power with Express
100.00	NGI	NY State Emission Requirements		Down Driver's Side (N/A JWAB)
100.00 N.C.		(w/LH0 Engine) (w/LN2 Engine)		
IV.C.	VF5	California Emission Requirements		
100.00	11 5	(w/LH0 Engine)		
N.C.		(w/LN2 Engine		
N.C.	NB8	California/NY Emission Override		
		(Reqs FE9 Emissions)		
N.C.	NC7	Federal Emission Override (Reqs YF5/NG1Emissions)		
		ENGINE		
N.C.		2.2 Liter MFI L4 (Base)		
834.00	LH0	3.1 Liter MFI V6 (Incls Performance HandlingPkg, Level II Susp, P195/70R14 Tires and Gage Pkg)		

REVISED: 1-10-94 CAVALIER 1994 ORDER GUIDE

<sup>\*</sup> Includes Destination and Handling Charges

### CAVALIER RS CONVERTIBLE

#### \*17,470.00 Model 1JC67 RS Convertible

\*Includes Destination and Handling Charges

### MUST SPECIFY: ENGINE, TRANSMISSION, EMISSION MUST ORDER ONE GROUP - NO DELETIONS ALLOWED

**Base Preferred Equipment Group (Refer Standard Equipment Summary) JSAB** JSA1 **Preferred Equipment Group 1** 370.00 Speed Control: Electronic, with Resume Speed X Tiltwheel Adjustable Steering Column

#### **ADDITIONAL OPTIONS**

		ACKNOWLEDGEMENTS			
N.C.	R8S	Multiple Order Numbers			
N.C.		Preliminary Invoice			
N.C.		BRACKET: License PLate.	V.P.S.	U1C	Electronically Tuned AM /FM
N.C.	V1\3	Front			Stereo Radio w/Seek-Scan,
		CLIMATE CONTROL			Digital Clock, Compact
20.00	K05	Heater, Engine Block			Disc Player, Delco-Loc II and
20.00	1105	(Note: One of the Following			Extended Range Front and Rear
		Defogger Options must be			Speakers
		Specified)			SEAT TRIM
170.00	C49	Defogger, Rear Window: Electric	N.C.	J**2	Sport Cloth Bucket
N.C.		Defogger, Rear Window Not	75.00	V**2	Vinyl Bucket
		Desired	110.00	T43	SPOILER: Deck Lid
		EMISSION (Refer Emission	N.C.	MX1	TRANSMISSION: 3-Speed Automatic
		Requirement Tab Section)			(Base)
N.C.	FE9	Federal Emission Requirement			
	NG1	NY State Emission Requirements			
100.00		(W/LH0 Engine)			
N.C.		(W/LN2 Engine)			
	YF5	California Emission Requirements			
100.00		(W/LH0 Engine)			
N.C.		(W/LN2 Engine)			
N.C.	NB8	California/NY Emission Override			
		(Reqs Fe9 Emission)			
N.C.	NC7	Federal Emission Override (Reqs			
		YF5/NG1 Emission)			
		ENGINE			
N.C.		2.2 Liter MFI L4 (Base)			
834.00	LH0	3.1 Liter MFI V6 (Incls Perf			
		Handling Pkg, Level II Susp,			
		P195/70R14 Tires and Gage			
		Pkg)			
		RADIO EQUIPMENT			
V.P.S.	UM6	Electronically Tuned AM/FM			
		Stereo Radio w/Seek- Scan, Digital			
		ClockStereo Cassette Tape,			
		Extended Range Front and Rear			

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Rear Speakers