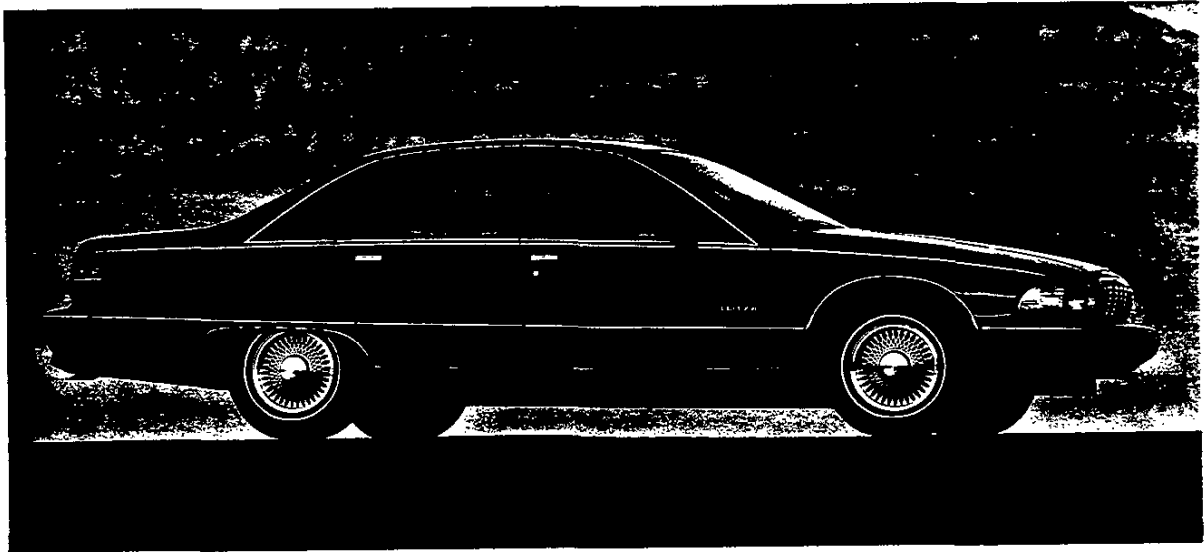






## CAPRICE 1991 FEATURES



Caprice Classic Sedan.

### MAJOR SELLING FEATURES

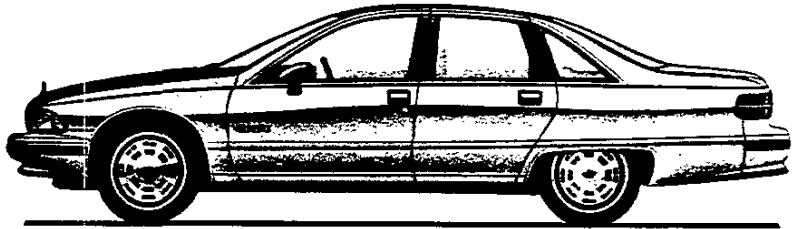
- The all-new Caprice Wagon includes 8-passenger seating capacity, standard luggage rack, single wet-arm rear-window wiper and manually operated rear vent-windows. The tailgate is a new horizontally split design with lift-gate rear window.
- A powerful 170 HP 5.0 Liter V8 with EFI is standard on all models, including Wagon.
- Body-side and rear pin striping standard on Caprice Classic Sedan, optional (RPO D85) on Caprice Sedan and Wagon (interim availability).
- Caprice Classic Sedan equipment includes cast-aluminum wheels, cornering lamps, uplevel cloth interior with 55/45 front bench seat (with reclining seat-backs and seat-back storage pockets), center front and rear armrests, power windows with driver's Express Down feature, power door locks, front door courtesy lamps, dual rearview mirror-mounted reading lamps and a diagnostic system with low fluid level indicators.
- Delco/Bose Silver Series AM/FM stereo sound system with compact disc player optional (RPO U1B). An AM/FM stereo with compact disc player and Extended Range Sound system is also optional (RPO U1C).
- All Caprice stereo sound systems now include Up/Down seek-scan feature.
- Standard Bosch ABS II four-wheel anti-lock brake system.
- Standard driver's-side Supplemental Inflatable Restraint system (air bag).
- Air conditioning, automatic transmission and tinted glass standard.
- Wire wheel covers are a new option (RPO N91) for Caprice Sedan and Wagon.
- Automatic Leveling Suspension (RPO G67) optional on Wagon.
- Convenient pull-out cup and coin holders are designed into the 1991 instrument panel.
- **Scotchgard™ Fabric Protector**, applied to the seat and door panel trim fabrics, remains a Chevrolet exclusive this year.
- Caprice's full-perimeter frame, long 115.9-inch wheelbase, rear-wheel drive and Full Coil suspension all contribute to Chevrolet's best ride ever.
- Caprice and Caprice Classic can tow up to 5000 lbs. when properly equipped. (See sales brochure for complete information on trailering.)



## CAPRICE MODELS

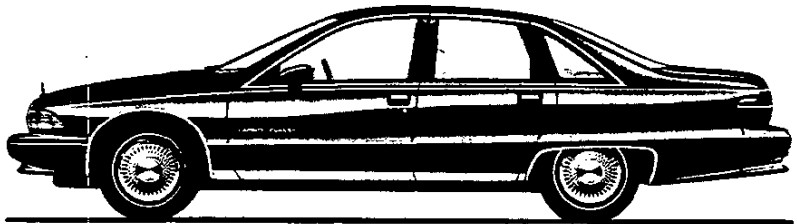
### CAPRICE SEDAN (1BL19)

The spacious Caprice Sedan is loaded with standard features including air conditioning, AM/FM stereo and power brakes with four-wheel anti-lock brake system (ABS). Appointments such as cup and coin holders, dual covered visor mirrors and courtesy lighting add convenience.



### CAPRICE CLASSIC SEDAN (1BN19)

The uplevel Caprice Classic Sedan is the finest expression of Chevrolet's new full-size car. A 55/45 front bench, front and rear armrests, power windows, power door locks and dual rearview mirror-mounted reading lamps are only a few of the many standard comfort and convenience features. Exterior appearance is enhanced with standard 15" cast-aluminum wheels.



### CAPRICE WAGON (1BL35)

Packaging more total passenger and cargo room than last year (by 4.8 cu. ft.), the new Caprice Wagon features a standard rear-facing third seat and convenient lockable rear storage areas. The 1991 Caprice Wagon also has more power, with its Electronic Fuel Injection V8 (replacing the 4-Bbl.-carbureted V8 used in prior Caprice Wagons). Caprice Wagon will tow up to 5000 lbs. when equipped with the optional Trailering Package. A new Automatic Leveling Suspension (RPO G67) is optional for 1991.



# CHEVROLET CAPRICE OPTIONS

Caprice models for 1991 are available with select Preferred Equipment Groups that combine popular options for easy ordering. A selection of additional individual options is also available.

**NOTE: Not to be used for ordering. Refer to Passenger Car Order Guide for current usage and availability.**

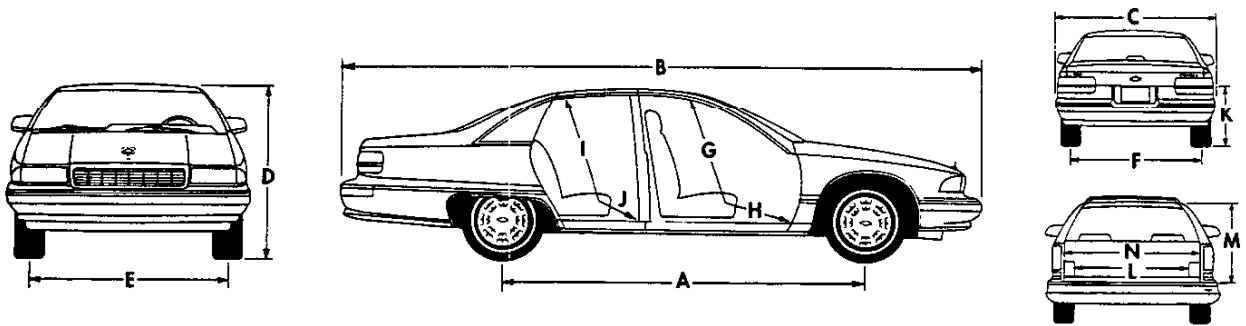
DESCRIPTION	P.E.G.▶	Caprice Sedan		Caprice Classic Sedan		Caprice Wagon	
		BLA1	BLA2	BNA1	BNA2	BWA1	BWA2
Floor Mats, Carpeted Front/Rear Color-Keyed		X	X	X	X	X	X
Power Door Lock System (including Tailgate on Wagon)		X	X	S	S	X	X
Power Trunk Opener		X	X	X	X		
Power Windows with Driver's Express Down		X	X	S	S	X	X
Electronic Speed Control with Resume Speed		X	X	X	X	X	X
Comfortilt Steering Wheel		X	X	X	X	X	X
AM/FM Stereo with Up/Down Seek-Scan, Cassette Tape Player with Auto Reverse, Digital Clock and ERS		○	X	X		X	X
Delco/Bose Silver Series Sound System: AM/FM Stereo with Up/Down Seek-Scan, Cassette Player w/Auto Reverse, Music Search, Digital Clock & Bose® Speakers			○		X		○
Power Antenna			X		X		X
Right-Hand Visor Illuminated Vanity Mirror			X	X	X		X
Rearview Mirror with Dual Reading Lamps			X	S	S		X
Twin Remote Electric Mirrors			X		X		X
Driver's Side 6-way Power Seat Adjuster (NA w/bench seat on Caprice models)			X	X	X		X
Rear Compartment Security Cover							X
Rear Compartment Deluxe Decor							X
Passenger's Side 6-way Power Seat Adjuster					X		
Twilight Sentinel Headlamp System					X		
Rearview Mirror with Dual Reading Lamps and Electronic Compass					X		
Keyless Remote Entry (Door Lock and Trunk Opener)					X		
<b>INDIVIDUAL OPTIONS</b>		<b>RPO</b>					
<b>Tires</b>							
P205/75R-15 All-Season White-Stripe Tires	QCG	○	○	○	○		
P225/70R-15 All-Season White-Stripe Tires*	GNP	○	○	○	○		
Wire Wheel Covers	N91	○	○			○	○
Full-Size Spare Tire	N81	○	○	○†	○†	○	○
<b>Radio Equipment</b>							
AM/FM Stereo with Up/Down Seek-Scan, Cassette Tape Player with Auto Reverse, Digital Clock and ERS	UM6	○	X	X**		X**	X
Delco/Bose Silver Series Sound System: AM/FM Stereo with Up/Down Seek-Scan, Cassette Player w/Auto Reverse, Music Search, Digital Clock & Bose Speakers	UU8		○		X		○
Delco/Bose Silver Series Sound System: AM/FM Stereo with Up/Down Seek-Scan, Compact Disc Player, Digital Clock & Bose Speakers	UIB		○		○		○
AM/FM Stereo with Up/Down Seek-Scan, Compact Disc Player, Digital Clock and ERS	U1C	○	○	○		○	○
<b>Additional Individual Options</b>							
Electric Rear-Window Defogger	C49	○	○††	○	○††	○	○††
55/45 Split Front Seat with Armrest and Recliner (Level I Cloth)	—	○	○	S***	S***	○†††	○†††
Power Door Lock System (including Tailgate on Wagon)	AU3	X**	X	S	S	X**	X
Trailer Package‡	V92	○	○	○	○	○	○
Ride and Handling Suspension	F41	○§	○§	○§	○§		
Limited Slip Differential and Performance Ratio Axle (3.08 on Sedans, 3.23 on Wagon, NA with F41)	G80	○	○	○	○	○	○
Front License Plate Bracket	VK3	○	○	○	○	○	○
Body-Side and Rear Pin Striping (interim availability)	D85	○	○	S	S	○	○
Custom Two-Tone Paint	D84	○	○	○	○	○	○
Automatic Leveling Suspension	G67					○	○

S—Standard. ○—Optional at extra cost. X—Included in specific Preferred Equipment Group. ERS—Extended Range Sound System. Refer to Sound System tab for more complete radio information.  
 \*Requires F41 Ride and Handling Suspension or V92 Trailer Package. †Includes aluminum wheel on spare. \*\*Available as an individual option with Base Vehicle Group only.  
 ††Includes heated electric rearview mirrors only when ordered with this P.E.G. \*\*\*With uplevel cloth. †††Also available with optional uplevel cloth (except with Base Vehicle Group).  
 ‡Includes Ride and Handling Suspension (except on Wagon), Performance rear axle ratio (3.08 on Sedans, 3.23 on Wagon), engine oil cooling system and heavy-duty cooling system; requires P225/70R-15 white-stripe tires. §Requires P225/70R-15 white-stripe tires.

C  
F  
T  
I  
C  
N  
S



# CAPRICE DIMENSIONS/SPECIFICATIONS



DIMENSIONS	4-Door Sedan	Classic 4-Door Sedan	4-Door Wagon
<b>Exterior Dimensions (in.)</b>			
<b>A</b> Wheelbase	115.9	115.9	115.9
<b>B</b> Length (overall)	214.1	214.1	217.3
<b>C</b> Width (overall)	77.0	77.0	79.6
<b>D</b> Height (overall)	56.7	56.7	60.9
<b>E</b> Tread - front	61.8	61.8	62.1
<b>F</b> Tread - rear	60.7	60.7	64.1
Minimum ground clearance	7.0	7.0	7.0
<b>Interior Dimensions (in.)</b>			
<b>G</b> Head room - front	39.3	39.3	39.7
<b>H</b> Leg room - front	42.2	42.2	42.2
Shoulder room - front	63.4	63.4	63.4
Hip room - front	57.0	57.0	56.9
<b>I</b> Head room - rear	38.1	38.1	39.6
<b>J</b> Leg room - rear	39.5	39.5	38.0
Shoulder room - rear	63.4	63.4	63.5
Hip room - rear	56.9	56.9	57.1
EPA interior passenger volume (cu. ft.)	114.2	114.2	115.4
Head room - 3rd seat			36.7
Leg room - 3rd seat			30.5
Shoulder room - 3rd seat			48.6
Hip room - 3rd seat			43.7
<b>Passenger Capacity</b>	6	6	8
<b>Luggage Compartment Capacity - Sedan</b>			
<b>K</b> Lift-over height (in.)	30.2	30.2	
Usable luggage space (cu. ft.)	20.4	20.4	
<b>Cargo Compartment Capacity - Wagon (in.)</b>			
Floor length - front seat to tailgate			88.9
Floor length - 2nd seat to tailgate			55.0
<b>L</b> Width between wheelhousings			48.7
Height - floor to roof (max.)			29.9
Tailgate loading height			30.6
<b>M</b> Tailgate opening height			27.1
<b>N</b> Tailgate opening width at belt			52.4
Cargo volume index with 2nd & 3rd seats down			92.7*
<b>Rated Fuel Tank Capacity (gals.)</b>	23.0	23.0	22.0
<b>Curb Weight (lbs., estimated)</b>	3907	3951	4354

\*54.7 with 2nd seat up.



# CAPRICE SPECIFICATIONS

## CHASSIS SPECIFICATIONS

<b>Brakes</b>	<b>4-Door Sedan</b>	<b>4-Door Wagon</b>
Type	Power-assisted single caliper front disc/duo-servo rear drum, ABS	Power-assisted single caliper front disc/duo-servo rear drum, ABS
Disc rotor dia. (in.)	12.0	12.0
Swept area (sq. in.) front and rear	360.6	379.0
Drum dia. (in.)	9.5	11.0
<b>Steering</b>		
Type	Power-assisted recirculating ball	Power-assisted recirculating ball
Turning dia. curb-to-curb (ft.)	38.9	38.9
Lock-to-lock turns	3.16	3.16
<b>Suspension - Front</b>		
Type	Short/long arm independent with coil springs	Short/long arm independent with coil springs
Stabilizer bar dia. (in.)	1.0 (26mm)*	1.1 (28mm)
<b>Suspension - Rear</b>		
Type	Salisbury 4-link driving axle with coil springs	Salisbury 4-link driving axle with coil springs
Stabilizer bar dia. (in.)	None†	None

## ENGINE SPECIFICATIONS

## TRANSMISSION SPECIFICATIONS

	<b>5.0 Liter V8 with EFI (RPO LO3)</b>	<b>Type</b>	<b>4-Speed Automatic OD (RPO MX0)</b>
Engine type	90° V8-OHV	Case material	Aluminum
Displacement (cu. in.)	305	<b>Gear ratios: 1</b>	
Bore and stroke (in.)	3.74 x 3.48	1st Gear	3.06
HP** @ RPM	170 @ 4200	2nd gear	1.63
Torque @ RPM (lbs.-ft.)	255 @ 2400	3rd gear	1.00
Compression ratio	9.3:1	4th gear	0.70
Exhaust system	One-piece welded stainless steel	Reverse	2.29
		<b>Rear axle ratios: 1</b>	
Fuel induction	Electronic Fuel Injection	Sedan Standard	2.56
Tailpipe	Single	Sedan Optional	3.08††
Ignition system	12-volt High Energy Ignition (HEI)	Wagon Standard	2.73
Delcotron alternator	100 amp	Wagon Optional	3.23††
Battery (SAE capacity rating)	525 cca		
Cooling system capacity (qts.)	16.8***		

## TRAILERING INFORMATION (See sales brochure for complete information on trailering.)

<b>Trailer Classification</b>	<b>Light</b>	<b>Medium</b>	<b>Heavy</b>
Gross trailer weight (lbs.) up to	2000	3000	5000
Maximum tongue load (lbs.)	200	360	600

\*With RPO V92 or F41—1.2 (30mm). †With RPO V92 or F41—0.94 (24mm) steel. \*\*SAE Net. ††With RPO V92 Trailering Package or RPO G80 Limited Slip Axle. \*\*\*17.5 with RPO V92 Trailering Package.



# CAPRICE EQUIPMENT

## EQUIPMENT SUMMARY

POWER TEAM AVAILABILITY	Classic		
	Sedan	Sedan	Wagon
LO3 5.0L (305 CID) V8 with Electronic Fuel Injection	S	S	S
MX0 4-speed automatic overdrive transmission	S	S	S
<b>POWER TEAM FEATURES</b>			
Longitudinal engine mounting	S	S	S
Single belt accessory drive	S	S	S
Roller-type hydraulic valve lifters	S	S	S
Computer Command Control	S	S	S
Delco Freedom maintenance-free battery	S	S	S
Delcotron alternator with built-in solid-state regulator	S	S	S
Underhood lamp	S	S	S
<b>CHASSIS FEATURES</b>			
Rear-wheel drive	S	S	S
Power steering	S	S	S
Bosch ABS II four-wheel anti-lock brake system	S	S	S
Power front disc/rear drum brake system	S	S	S
Disc brake audible wear sensors	S	S	S
Front stabilizer bar	S	S	S
Full Coil spring suspension	S	S	S
Visible ball joint wear indicators on front suspension	S	S	S
Heavy-duty front and rear suspension	NA	NA	S
Ride and handling suspension	O	O	NA
Trailer package (includes heavy-duty cooling, performance axle ratio (3.08 on Sedans, 3.23 on Wagon) and engine oil cooler	O	O	O
Four-link coil-spring rear suspension	S	S	S
Dual horns	S	S	S
<b>TIRES/WHEELS/WHEEL TRIM</b>			
P205/75R-15 all-season steel-belted radial ply blackwall tires on 7"-wide steel wheels	S	S	NA
P205/75R-15 all-season steel-belted radial ply white-stripe tires on 7"-wide steel wheels	O	O	NA
P225/70R-15 all-season steel-belted radial ply white-stripe tires on 7"-wide steel wheels	O	O	NA
P225/75R-15 all-season steel-belted radial ply white-stripe tires on 7"-wide steel wheels	NA	NA	S
15" full wheel covers	S	NA	S
15" cast-aluminum wheels	NA	S	NA
15" wire wheel covers	O	NA	O
Full-size spare tire	O	O	O
<b>BODY FEATURES</b>			
All-welded heavy-gauge steel body construction	S	S	S
Full-perimeter frame	S	S	S
16 rubber-cushion body mounts	S	S	S
Steel bumpers on Delco energy absorbers, covered with urethane fascias	S	S	S
Bright grille	S	S	S

S—Standard. O—Optional. NA—Not Available.



# CAPRICE EQUIPMENT

BODY FEATURES (Cont'd)	Classic		
	Sedan	Sedan	Wagon
Stand-up hood ornament	S	S	S
Flush-mounted composite halogen headlamps	S	S	S
Dual body-color aero sport mirrors (LH remote)	S	S	S
Base-coat/clear-coat paint	S	S	S
Center high-mounted stop lamp	S	S	S
Triple-unit tail/stop/backup lamps	S	S	S
Flush-mounted tinted glass	S	S	S
"Aircraft-style" doors and flush-mounted door handles	S	S	S
Body-side moldings—color-keyed with bright accents	S	S	S
Wheelhousing moldings	S	S	S
Rocker panel moldings	S	S	S
Front cornering lamps with integral side markers	NA	S	NA
Caprice Classic nameplates	NA	S	NA
Power door locks	O	S	O
Child security rear-door locks	S	S	S

## INTERIOR FEATURES

### Instrument Panel/Controls

Air conditioning	S	S	S
AM/FM Stereo with Up/Down seek-scan, digital clock and dual f/r speakers	S	S	S
Day/night rearview mirror with dual reading lamps	O	S	O
Day/night rearview mirror	S	S	S
Visor vanity mirrors, right-hand and left-hand	O	S	O
Right-hand lighted visor vanity mirror	O	O	O
Glove box portfolio (includes credit card-type emergency key set and cassette informational tape)	S	S	S
Electric speedometer with trip odometer	S	S	S
Glove box, lockable with lamp	S	S	S
Headlamps-on warning tone	S	S	S
Cigarette lighter	S	S	S
Cup holders/coin holders	S	S	S
Trunk lamp	S	S	NA

### Seats/Door Panels

Cloth bench seat with center armrest	S	NA	S
Cloth 55/45 split-bench reclining seats with front center armrest	O	NA	O*
Uplevel cloth 55/45 split-bench reclining seats with front and rear center armrest	NA	S	NA
Leather 55/45 split-bench reclining seats with front and rear center armrest	NA	O	NA
Carpeted lower door panels	S	S	S
Driver's-side Supplemental Inflatable Restraint system (air bag)	S	S	S
Lap/shoulder belts for front-seat driver and outboard passenger	S	S	S
Rear-position 3-point lap/shoulder belts	S	S	S
<b>Scotchgard™ Fabric Protector</b> on seat and door panel trim fabric†	S	S	S

S—Standard. O—Optional. NA—Not Available. \*Also available in uplevel cloth. †Not available with leather interior.

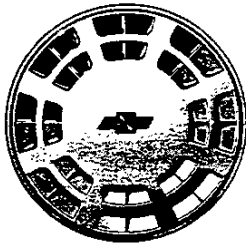


# CHEVROLET CAPRICE EQUIPMENT

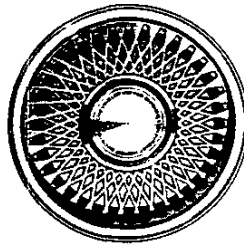
INTERIOR FEATURES (Cont'd)	Classic		
	Sedan	Sedan	Wagon
<b>Carpeting/Headlining</b>			
Colorkeyed cut-pile carpeting	S	S	S
Cloth-on-foam acoustical headliner	S	S	S
Center dome light	S	S	S
<b>Luggage/Cargo Area</b>			
Luggage/cargo compartment floor carpet	S	S	S
Deluxe trunk trim	S	S	NA
Rear compartment deluxe decor	NA	NA	O
Rear compartment security cover	NA	NA	O
Luggage/cargo compartment convenience net	S	S	S
Luggage/cargo compartment courtesy lamp	S	S	S
Spare tire cover	S	S	NA

S—Standard. O—Optional. NA—Not Available.

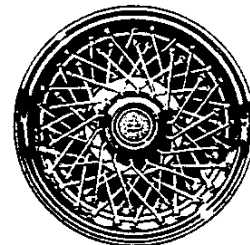
## WHEELS/WHEEL TRIM



**Caprice Sedan and Caprice Wagon** standard 15" full wheel cover.



**Caprice Classic Sedan** standard 15" cast-aluminum wheel.



**Caprice Sedan and Caprice Wagon** optional 15" wire-wheel cover (RPO N91).

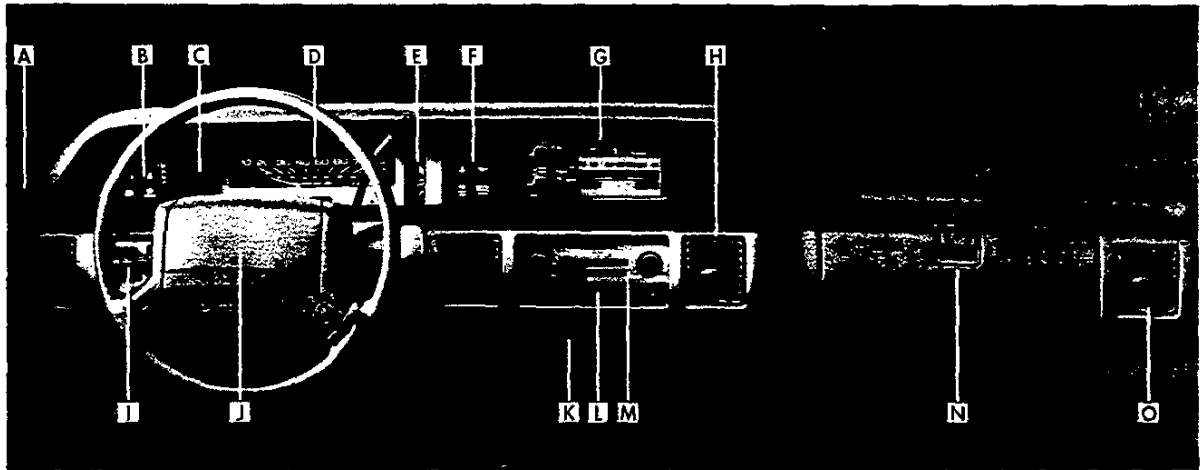
## WHEEL/TIRE COMBINATIONS

MODEL	WHEEL	COVER	TIRE
Caprice Sedan	15" steel	Std. Full Opt. Wire	Std. P205/75R-15 SBR Blackwall Opt. P205/75R-15 SBR White-stripe Opt.* P225/70R-15 SBR White-stripe
Caprice Classic Sedan	15" cast-aluminum	NA	Std. P205/75R-15 SBR Blackwall Opt. P205/75R-15 SBR White-stripe Opt.* P225/70R-15 SBR White-stripe
Caprice Wagon	15" steel	Std. Full Opt. Wire	Std. P225/75R-15 SBR White-stripe

NOTE: All Caprice and Caprice Classic tires have all-season tread.  
Std.—Standard. Opt.—Optional. NA—Not Available. SBR—Steel-belted radial.  
\*Requires Ride and Handling Suspension (RPO F41) or Trailering Package (RPO V92).

# INSTRUMENTATION

## CAPRICE & CAPRICE CLASSIC



Caprice and Caprice Classic (shown) instrument panel features highly legible analog gauges and easy-to-reach and easy-to-use controls.

### Caprice and Caprice Classic

instrument panel includes:

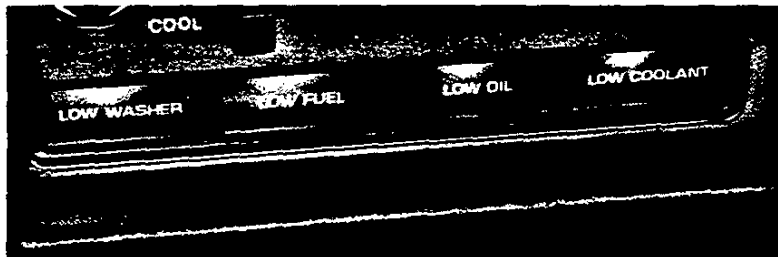
- [A] Side window defogger.
- [B] Warning lights (includes Supplemental Inflatable Restraint system operational check light).
- [C] Fuel gage. [D] Electric speedometer (MPH/Km/h

calibrations) with trip odometer.

- [E] Engine coolant gage.
- [F] Warning lights (includes ABS brake system operational light).
- [G] AM/FM stereo (optional Delco/Bose Music System shown).
- [H] Center vents. [I] Rocker-type headlamp switch and thumb-wheel

dimmer control. [J] Supplemental inflatable Restraint (air bag).

- [K] Retractable cup holders, coin holder and lighted ashtray. [L] Low Fluid Level monitors (Caprice Classic only, see detail below).
- [M] Climate control center.
- [N] Locking glove box with light.
- [O] Side vents.



Caprice Classic instrumentation includes, in addition to features listed above, Low Fluid Level monitor warning lights (shown at left). These alert the driver when fuel, engine oil, coolant or windshield washer fluid levels require attention.

Optional Twilight Sentinel (not shown, available for Caprice Classic only) automatically turns headlamps on at dusk and delays turnoff for up to three minutes after car is exited.

I  
N  
S  
T  
R  
U  
M  
E  
N  
T  
S



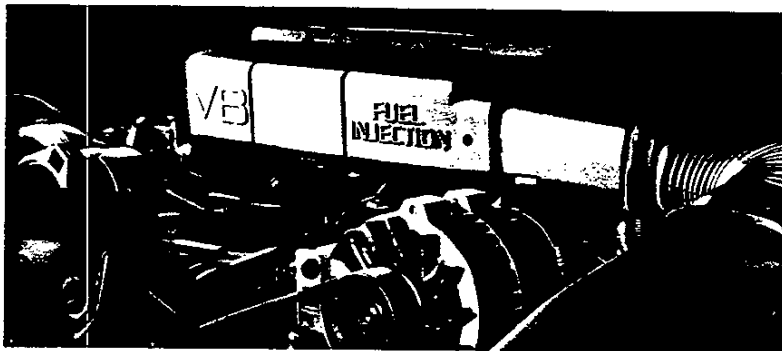
# CAPRICE SELLING FEATURES

## POWER TEAMS

All Caprice models feature a 5.0 Liter V8 with Electronic Fuel Injection, an Electronic Control Module (ECM) that monitors and controls the engine, and other high-tech features. A four-speed automatic transmission with overdrive is standard. Only new features and key selling features are listed below. **NOTE: See the Technical Highlights tab section for additional Caprice power team features.**

### UNDER THE HOOD\*

Routine service and fluid replenishment is easy to accomplish with the 1991 Caprice. Easy-to-locate service filler caps with white lettering help identification. The windshield reservoir holds a full gallon of cleaning fluid for extra convenience.



**All 1991 Caprice and Caprice Classic models feature a standard 5.0 Liter V8 with EFI and 4-speed automatic overdrive transmission power team.**

### ENGINE FEATURES

- The 1991 Caprice 5.0 Liter V8 produces 170 horsepower at 4200 RPM, and generates its maximum 255 lbs. ft. of torque at 2400 RPM, providing both acceleration and cruising power.
- All 1991 engines have Electronic Fuel Injection standard (formerly, the Wagon had a 4-Bbl. carbureted engine).
- The Caprice Electronic Fuel Injection system uses Multec throttle-body injectors for excellent fuel economy and dependable cold-weather starting. Developments in intake manifold casting and flow technology help this relatively simple system provide outstanding economy.

- The air cleaner cover can be easily removed by releasing two clips, allowing convenient inspection of the air filter.
- An automatic Low Engine Oil sensor light warns the driver when the engine oil level drops to a critical level (Caprice Classic only).



### TRANSMISSION FEATURES

- The standard 4-speed automatic overdrive transmission provides quiet, low-RPM highway cruising while helping Caprice achieve excellent fuel economy (EPA estimated 17 MPG city, 26 MPG highway).
- A converter clutch, controlled by the ECM, provides a more direct linkage between the engine and transmission in 4th (overdrive) gear. The result is a more efficient operation of the transmission, which also enhances fuel economy.

**A single belt accessory drive contributes to engine efficiency and is designed to never require adjusting.**

\*Refer to the Caprice Owner's Manual for maintenance schedules and additional information.



# CAPRICE SELLING FEATURES

## CHASSIS

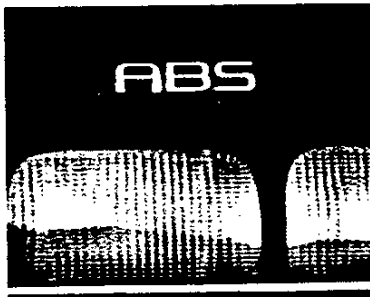
Caprice's full-frame construction isolates the body from the frame with rubber cushions that help buffer road noise and surface roughness. Full-frame construction also stiffens the chassis and allows for a softer suspension. **NOTE:** See the Technical Highlights tab section for additional details about Caprice's front and rear suspension systems.

### STEERING SYSTEM

- The standard power steering system is a recirculating ball design, which provides reduced effort with easy-to-handle 14:1 gear ratio.
- Lock-to-lock steering wheel travel is only 3.16 turns for responsiveness.
- The 115.9" wheelbase Caprice has a curb-to-curb turning diameter of 38.9 feet.

### TIRES

- All Caprice models are equipped with big 15" all-season steel-belted radial ply tires. A space-saver spare is standard, while a full-size spare tire is optional (RPO N81).



An ABS badge on the deck lid signifies the presence of Caprice's standard four-wheel anti-lock brake system.

### BRAKE SYSTEM

- An advanced Bosch ABS II four-wheel anti-lock brake system is standard on all 1991 Caprice models. ABS helps the driver maintain steering control even during hard braking by adjusting brake pressure as much as 15 times per second. This "pulse action" continues as long as the driver maintains pressure on the brake pedal and the system senses impending wheel lockup. Retaining steering control aids the driver's ability to steer around objects even in emergency-braking situations.
- Sensors located at each wheel monitor how fast the wheels are rotating and feed data continuously to a microprocessor in the vehicle. The sensors monitor when any wheel is approaching lockup.

### OPTIONAL AUTOMATIC LEVELING SUSPENSION (RPO G67 WAGON ONLY)

This suspension helps keep the rear of the Caprice Wagon at the proper height, regardless of load. A microprocessor computer senses rear height and bleeds or adds (through an engine driven compressor) pressurized air to a pair of Delco Superlift shock absorbers at the rear. The shocks raise or lower the car to maintain design height. Keeping the vehicle level helps maintain proper headlamp illumination at night.

### SUSPENSION SYSTEMS

- Caprice models can tow up to 5,000 lbs. when properly equipped. An optional Trailering Package (RPO V92) is available and includes ride-and-handling suspension components, heavy-duty cooling system, a 3.08 (3.23 on Wagon) rear axle ratio and engine oil cooler. (Sedans require P225/70R-15 white-stripe tires [RPO QNP]\*.)
- Caprice features independent front suspension and a 4-link coil spring type rear suspension.
- Full-coil suspension, with a coil spring at each wheel, contributes to Caprice's "big car" ride and handling.

### WAGON SUSPENSION VARIATIONS

Because of greater weight and load conditions, the Caprice Wagon features standard heavy-duty suspension components in key areas front and rear. These include:

- Heavier-duty front springs and stabilizer bar.
- Heavier-duty rear springs.
- 11" rear brake drum diameter vs. 9.5" on sedans.

\*Not available on Wagon.



S  
E  
L  
L  
I  
N  
G  
  
F  
E  
A  
T  
U  
R  
E  
S

# CAPRICE SELLING FEATURES

## BODY

Caprice makes extensive use of 2-sided-galvanized steel for body sheet metal—a corrosion-protection feature unmatched by Ford, Chrysler, or any Japanese competitor. Galvanizing the outer face of sheet metal helps reduce the chance that discoloring rust will appear, even when the paint surface is scratched. **NOTE: See the Technical Highlights tab section for additional information about Caprice's body protection features.**

- Caprice's sleek aerodynamic lines are both attractive and functional.
- All Caprices have standard base-coat/clear-coat paint that provides a deep, glossy texture—and aids in resistance to corrosion perforation.
- Moldings and nameplates attach without requiring holes or clips to keep corrosion-producing elements out of the inner body.
- Protective body-side moldings and fascia rub strips are standard.
- Steel bumpers are concealed beneath the body-color urethane bumper fascias.
- Glass area on Sedans is increased by 62 percent, compared to 1990 Caprice models, adding increased visibility.
- Standard tinted glass reduces glare and helps keep interiors cool.

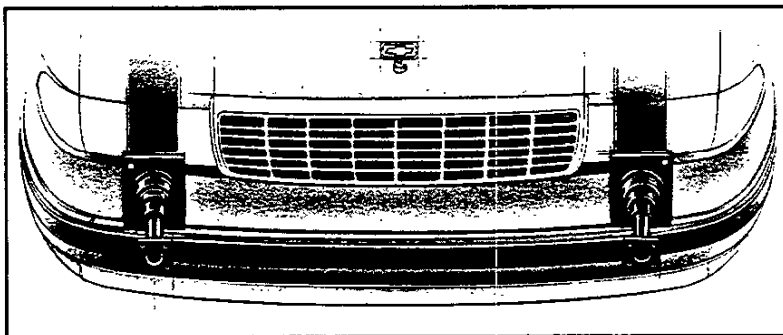
- The fuel filler inlet is centrally located at the rear of the car for access from either side of the car while refueling.
- The inner and outer panels of Caprice doors are joined with an adhesive at the flange hem, instead of being spot-welded as was long the industry practice. This adhesive effectively joins the panels and seals off the inner cavities permanently. The hem appearance and corrosion resistance is greatly enhanced.
- All inner structural panels are hot-dipped galvanized steel, for added protection in the corrosive environment under the car.
- Flush-mounted composite halogen headlamps provide whiter, brighter light than sealed-beam units. The hard acrylic lens is chip-resistant, and the halogen bulb is replaceable.

### A SPACIOUS TRUNK WITH CONVENIENCE NET

Caprice and Caprice Classic Sedan trunk floors are flat from side to side, eliminating the moisture and dirt-catching pocket traps found in the trunks of many cars. A convenience net that stretches across the rear of the trunk compartment is standard. It helps keep grocery bags upright and small packages secure. Total luggage capacity is 20.4 cu. ft.



Optional keyless entry allows locking of car doors or trunk from up to 30 feet away.



Caprice's steel 5-MPH bumpers are twice as strong as required by federal law. Soft urethane fascias reduce damage from minor bumps.



# CAPRICE SELLING FEATURES

## SEDAN INTERIOR

The most spacious Caprice Sedans ever are true full-size six-passenger automobiles. Seats are constructed with full-frame springs and thick padding for extra comfort.

■ **Scotchgard™ Fabric Protector\*** is applied to the seat and door fabric trim for long-lasting protection against stains and spills.

■ A pull-down center armrest is standard in all models, while the Caprice Classic also includes a rear-seat center pull-down armrest.

■ The Caprice Classic also includes front door courtesy lamps and storage pockets on front seat-backs.

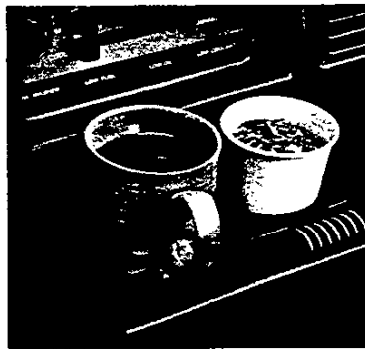
■ Instruments are designed to be easily legible, and controls are easy to reach.

■ Convenient cup holders and coin holders, integral with the ashtray, are located on the instrument panel.

■ A Delco® AM/FM stereo sound system with digital clock and dual front and rear speakers is standard.

■ A driver's-side Supplemental Inflatable Restraint system (air bag) is housed in the 1991 Caprice steering wheel.

■ Convenient storage pockets are built into the door panels, and all panels have carpeted scuff pads. All models feature simulated Bahia Rosewood woodgrain door panel trim plates.



**Pull-out cup holders are a convenient feature of all Caprice models.**

■ Optional Twilight Sentinel switches lights on and off automatically, depending on how dark it is outside. The system also can be used to automatically turn off the lights up to three minutes after the engine is shut off. This adds to security when exiting vehicle in dark parking garages or driveways.

### **POWER WINDOWS WITH DRIVER'S EXPRESS DOWN**

On Caprice models equipped with power windows (standard on Caprice Classic, optional on Caprice), the driver's window can be lowered easily with the Express-Down feature. The driver simply taps the left front door window switch to lower the window. Tapping a second time during the lowering cycle stops the window. For safety, this process works only in the "Down" mode.



**Caprice Classic standard cloth interior.**

\*Not available with Leather seating option.

S  
E  
L  
L  
I  
N  
G  
  
F  
E  
A  
T  
U  
R  
E  
S



# CAPRICE SELLING FEATURES

## WAGON INTERIOR

The sleek body of the 1991 Caprice Wagon envelops an interior that provides more total passenger room and more cargo room than found in the previous Caprice Wagon. There's also more power, with a new standard 170 HP V8 with Electronic Fuel Injection. A luggage rack and rear-window washer/wiper system are standard.



Caprice Wagon interior will seat up to eight passengers...

■ A new vinyl security screen that pulls rearward to cover objects in the rear compartment is optional for added protection.

■ A full-width second seat carries up to three passengers in comfort, but folds flat when required to accommodate long cargo.

■ Two rear-facing passengers may use the vinyl-trimmed third seat when needed. Otherwise, it stores invisibly beneath the rear floor. The third seat foot-well doubles as an additional cargo compartment and is fitted with a lockable cover for security.

■ A new release mechanism for the third seat makes it easy to "pop up" and "pop down" the seat-back.

■ A rear side-panel compartment also has a locking cover to conveniently secure smaller items such as camera bags and travel kits.

■ The tailgate is a new two-way design with a separate top-hinged rear window. Manually operated rear side-window vent panes can be opened for additional ventilation to the rear area.

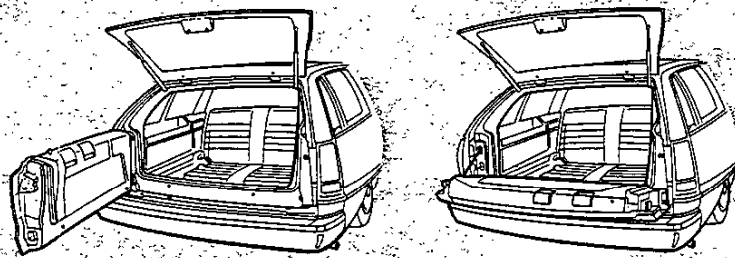
■ A dual-function convenience net may be used to retain items against the tailgate in its vertical position, or against the load floor in its horizontal position. The tailgate may be opened with the net in either position.



...or hold up to 92.7 cu. ft. of cargo.

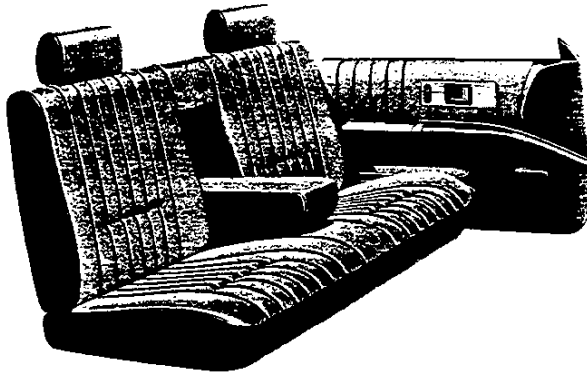
### NEW 2-WAY TAILGATE WITH LIFT WINDOW

The Caprice Wagon features 2-way tailgate operation. A new separate lift window opens upward and is held in place with gas struts. The tailgate may then be opened as a swing-out door (at left) or as a fold-down gate (at right).

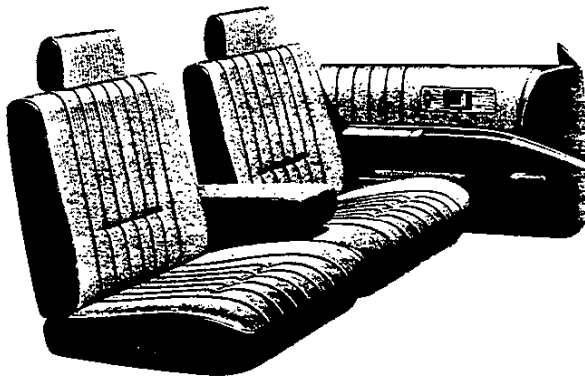




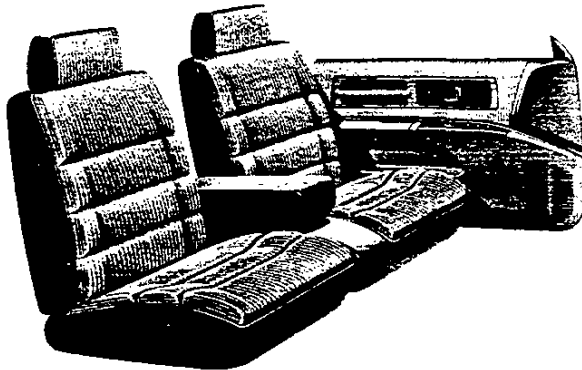
## CAPRICE SEAT STYLES



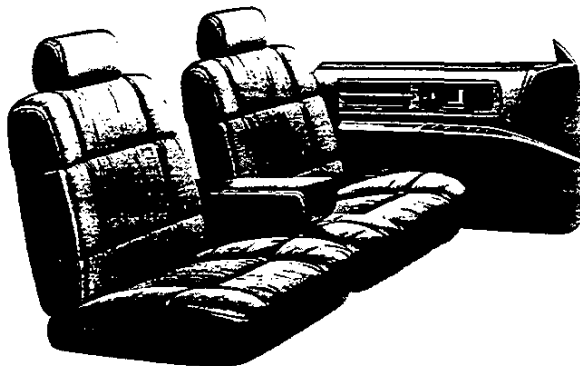
**Caprice Sedan and Wagon**  
standard cloth bench seat with pull-down center armrest and adjustable head restraints.



**Caprice Sedan and Wagon**  
optional 55/45 cloth seat with driver's side pull-down center armrest, adjustable head restraints, driver and passenger seat recliners and seat-back storage pockets. (Also available with optional uplevel cloth on Wagon.)



**Caprice Classic Sedan**  
55/45 uplevel cloth seat with center pull-down armrest, adjustable head restraints, driver and passenger seat recliners and seat-back storage pockets. Includes cloth and carpet door panel trim and rear-seat center armrest.



**Caprice Classic Sedan**  
55/45 seat with optional leather seating surfaces, center pull-down armrest, adjustable head restraints, driver and passenger seat recliners and seat-back storage pockets. Includes vinyl and carpet door panel trim and rear-seat center armrest.



# COLOR AND TRIM SELECTION

## SEAT STYLE & TRIM COMBINATIONS

Model	Seat Type	Interior Color			
		Dk. Blue	Camel†	Gray	Maroon
Caprice Sedan and Caprice Wagon*	Cloth Bench Cloth 55/45	CDD1 CDD5	CEE1 CEE5	CQQ1 CQQ5	CFF1 CFF5
Caprice Wagon*	Custom Cloth 55/45	FDD5	FEE5	FQQ5	FFF5
Caprice Classic	Custom Cloth 55/45 Leather 55/45	CDD5 ADD5	CEE5 AEE5	CQQ5 AQQ5	CFF5 AFF5

## CAPRICE AND CAPRICE CLASSIC (EXTERIOR/INTERIOR COMBINATIONS)

Exterior Paint Color	Color Code	Interior Color/Exterior Pin Stripe**			
		Dk. Blue	Camel†	Gray	Maroon
Black	41			X/LG	X/R
Blue, Dark Sapphire (Metallic)	28	X/MB		X/LG	
Blue, Light Sapphire (Metallic)†	22	X/MB			
Gold, Light (Metallic)†	67		X/B		
Gray, Medium (Metallic)	87			X/LG	X/R
Red, Dark Maple (Metallic)	78		X/G	X/LG	X/G
Red, Flame (Metallic)	74		X/G	X/LG	X/G
Silver (Metallic)	13	X/MB		X/MG	X/R
White	40	X/MB	X/G	X/LG	X/R

## CUSTOM TWO-TONE PAINT†† (EXTERIOR/INTERIOR COMBINATIONS)

Exterior Paint Colors	Color Code 1	Color Code 2	Interior Color/Exterior Pin Stripe**			
			Dk. Blue	Camel†	Gray	Maroon
White/Silver (Metallic)	40	13	X/MB	X	X/LG	X/R
Black/Gray, Medium (Metallic)	41	87			X/LG	X/R
Silver (Metallic)/ Gray, Medium (Metallic)	13	87	X/MB		X/MG	X/R
Blue, Dark Sapphire (Metallic)/ Silver (Metallic)	28	13	X/LG		X/LG	
Red, Dark Maple (Metallic)/ Gray, Medium (Metallic)	78	87			X/LG	X/LG
Gray, Medium (Metallic)/ Silver (Metallic)	87	13			X/LG	X/R
Red, Flame (Metallic)/ Silver (Metallic)	74	13			X/LG	X/LG
Blue, Light Sapphire (Metallic)/ Blue, Dark Sapphire (Metallic)†	22	28	X/MB		X/LG	
Blue, Light Sapphire (Metallic)/ Silver (Metallic)†	22	13	X/LG		X/LG	

NOTE: Bodyside molding matches lower color. X—Available.

Exterior Pin Stripe Code Key: B—Medium Brown. G—Gold. LG—Light Gray. MB—Medium Blue. MG—Medium Gray. R—Red.

\*Wagon third seat trim is vinyl. †Interim availability. \*\*Standard on Caprice Classic, optional (RPO D85) on Caprice. ††Optional—RPO D84.

6

C  
O  
L  
O  
R  
  
T  
R  
I  
M

## V8-TYPE ENGINES\*

5.0 LITER WITH EFI ■ CAPRICE, CAMARO

5.0 LITER WITH TPI ■ CAMARO

5.7 LITER WITH TPI ■ CAMARO

These longitudinally mounted V8 engines are heirs to the great Chevrolet V8 heritage. They are thoroughly modern in all technical details, with Electronic Fuel Injection systems, computer-controlled engine management systems and lower tailpipe emissions than in previous generations. But they still provide a highly praised balance of power, efficiency and economy—just as did the original 1955 Chevrolet V8 they descended from.

### 5.0 LITER V8 WITH EFI [RPO LO3]

Standard in Caprice and Camaro Convertible models, optional in Camaro RS Coupe models.

Features include:

- 170 HP (@ 4000 RPM in Camaro, @ 4200 RPM in Caprice) and 255 ft.-lbs. of torque @ 2400 RPM.

- Low Oil Sensor (Caprice Classic only). Signals driver through an instrument panel warning lamp in the event the engine oil level drops below the required level.

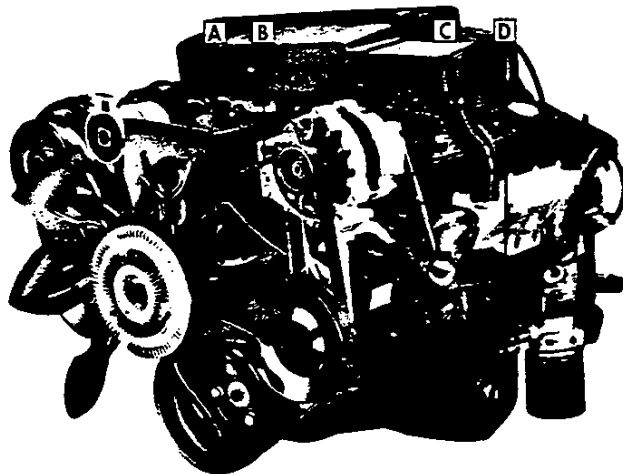
- On Caprice models, a new air cleaner with a latching cover is used on the 5.0 Liter EFI V8. It is easier to replace the filter element with this design.

[A] Electronic Fuel Injection with throttle body injection for excellent hot fuel handling, fuel economy and drivability (see page 8 for a complete discussion of EFI).

[B] Single belt accessory drive. Designed to never need tensioning. Easier to change than multiple belt systems.

[C] High Energy Ignition (HEI) system.

[D] Cast-iron cylinder block and heads with composite cylinder head gaskets.



5.0 Liter V8 with EFI.

### 5.0 LITER V8 WITH TPI [RPO LB9]

Standard in Camaro Z28 Coupe and Convertible.

Features include:

- 205 HP @ 4200 RPM and 285 ft.-lbs. torque @ 3200 RPM with manual 5-speed.

- When ordered with Performance Axle Ratio (G92)—includes 4-wheel disc brakes and performance exhaust for increased HP (230 @ 4400 RPM) and torque (300 ft.-lbs. @ 3200 RPM).

- Tuned-Port Fuel Injection (TPI). Features eight individual fuel injectors to deliver all the benefits of EFI and MFI plus more power under maximum throttle conditions (see page 9 for a complete discussion of TPI).

- Eight large tuned-runners channel air smoothly to each intake valve for increased performance.

- High lift camshaft for increased performance.

- Speed density fuel system. Uses ECM to determine amount of air entering the engine and then determines the amount of fuel needed to maintain a stoichiometric (ideal) air fuel ratio of 14.7:1.

\*See Corvette tab section for Corvette information.

## 5.7 LITER\* V8 WITH TPI [RPO B2L]

Available as an option for Camaro Z28 Coupe, the 5.7 Liter V8 offers Camaro owners the ultimate in driving excitement.

Features include:

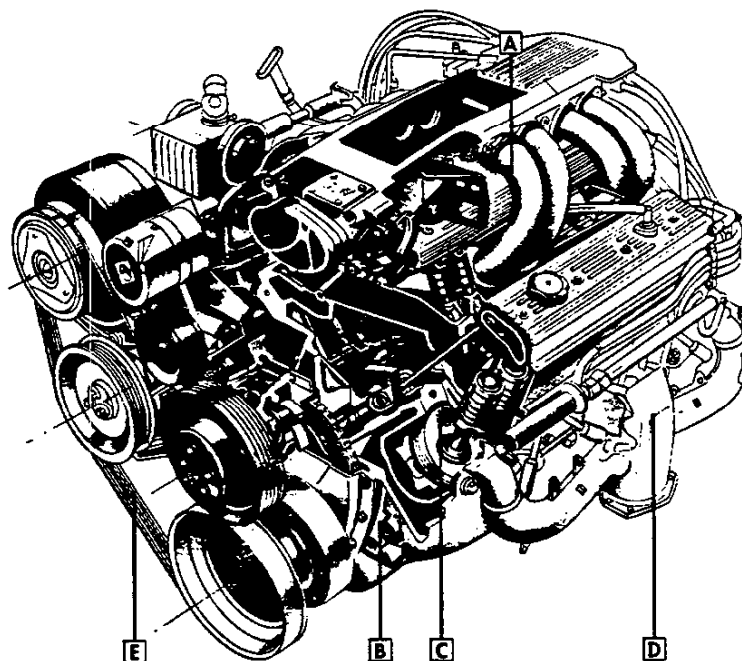
■ 245 HP @ 4400 RPM and 345 ft.-lbs. torque @ 3200 RPM.

[A] Tuned-Port Fuel Injection (TPI). Individual solenoid injectors controlled by the ECM deliver precise amounts of fuel to each cylinder. TPI provides all the benefits of EFI and MFI plus more power under maximum throttle conditions (see page 9 for a complete discussion of TPI).

[B] Cast-iron cylinder heads.

[C] Reduced weight/higher compression pistons. Help increase bearing durability.

[D] Standard free-flow dual converter performance exhaust. Reduces back



5.7 Liter V8 with TPI.

pressure for optimum horsepower.

[E] Single belt accessory drive. Designed to never need tensioning.

■ Speed density fuel management system. Helps maintain optimum air/fuel ratio.

### COMPUTER COMMAND CONTROL

An Electronic Control Module (ECM) is utilized in every Chevrolet. This on-board computer is the brain of the engine control system. It receives information from numerous sensors, calculates what is required to achieve proper engine operation and controls the fuel injectors, spark timing and other systems and devices to achieve it. The ECM ensures an optimum balance of drivability, performance and emission control at all times. Some of the features included in many Chevrolet models are:

■ Direct fire ignition: Included on Chevrolet 2.2L I-4, 2.3L Quad Four, 2.5L I-4 and 3.1L V6 engines (except Lumina APV and Camaro). This ignition system eliminates the distributor and never requires adjustment. (See page 5 for additional details about direct fire ignition.) Caprice and Camaro V8s and the Camaro 3.1L V6 feature a 12-volt High Energy Ignition (HEI) system.

■ Electronic converter clutch lock-up: The ECM monitors engine load and speed and controls the converter clutch lock-up feature found in all 1991 Chevrolet passenger car automatic transmissions.

■ Electronic Spark Control (ESC): A detonation sensor and analog controller used on some engines to provide the ECM with data needed to retard the spark when detonation occurs. This permits programming an electronic spark timing curve with added spark advance, resulting in improved operational efficiency.

■ Electronic Spark Timing (EST): A system designed to optimize spark timing for better control of exhaust emissions and fuel economy. The ECM monitors engine load, RPM and coolant temperature and supplies signals to the distributor to change spark timing.

■ Fuel injectors: Electronic signals from the ECM open the fuel injectors and help them monitor precise amounts of fuel for optimum combustion efficiency.

■ Self-diagnostic ability: The ECM monitors fuel delivery, ignition and emissions systems involved in the operation of the engine. In the event of a detectable malfunction in a monitored system, the ECM is designed to signal the driver through the "Service Engine Soon" light on the instrument panel. At the same time, the ECM also electronically stores a code that can be read by a service technician. The code provides information that helps the technician locate and define the possible malfunction.

\*For Corvette 5.7 Liter DOHC V8 (RPO LT5) information see Corvette tab section.

# FUEL INJECTION SYSTEMS

## ELECTRONIC FUEL INJECTION [EFI]

Electronic Fuel Injection replaces yesterday's mechanical carburetor with a single electronic fuel delivery system. The advantages are many, the two greatest being reduced emissions and superior drivability.

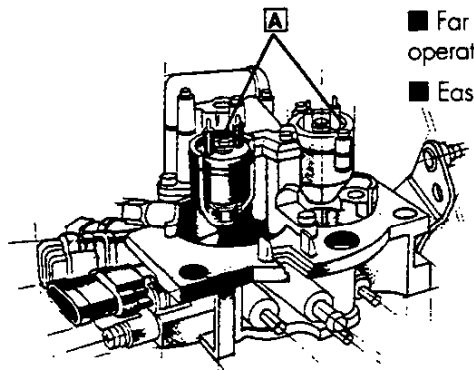
EFI uses Throttle-Body Injectors [A] with one or two computer-controlled solenoids and seat-type valve injectors to deliver precise amounts of fuel when needed. The vehicle's on-board computer constantly monitors changes in the outside air temperature, barometric pressure, throttle position, coolant temperature, engine RPM and exhaust content to automatically adjust the fuel-to-air mixture as required.

Replacing the choke of yesterday, a special fuel enrichment system is utilized for improved cold starts and warm-up.

Thanks to EFI's fast-thinking electronics, cumbersome mechanical components like choke plate, choke pull-off, needle and seat, float bowl, float, air bleeds, metering rods and internal carburetor passages are eliminated completely.

Major EFI benefits include:

- Complexity is taken out of the engine compartment and put into the ECM.
- Greater response, especially during cold starts and warm-ups.
- Outstanding fuel economy.
- Far less sensitive to extremes in operating conditions.
- Easier to service, with reduced regularly scheduled maintenance.



**Electronic Fuel Injection.**

## MULTI-PORT FUEL INJECTION [MPI]

Multi-Port Fuel Injection takes EFI technology a step further.

Instead of a central nozzle to spray fuel and air, each cylinder has its own injector [A]. This allows very precise amounts of fuel to be sprayed into the air stream just before it enters the cylinder.

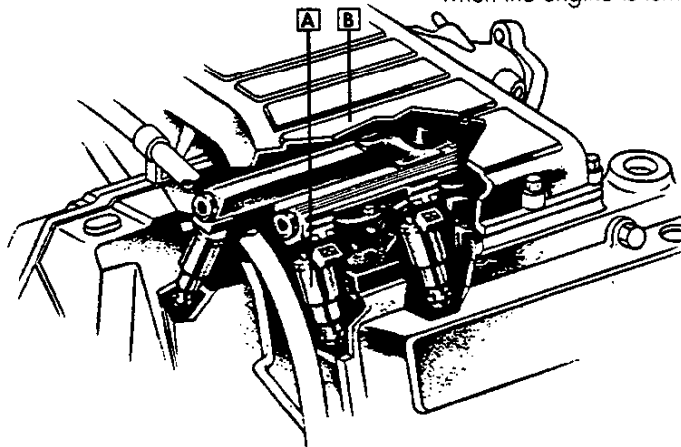
Each cylinder gets its own computer-controlled supply of fuel. This allows the computer to accurately balance the amount of air and fuel being received by the engine, a definite high-performance plus.

A cast-aluminum plenum [B] feeds air to tuned runners connected to each cylinder.

The benefits of MPI include:

- More power and acceleration.
- Smoother overall operation.
- Quicker cold-weather starts.

- More efficient combustion since each cylinder has its own air/fuel mixture.
- Elimination of "run-on" since there is a positive fuel shut-off when the engine is turned off.



**Multi-Port Fuel Injection.**

---

---



1991 Owner's Manual Supplement  
**Chevrolet Caprice LTZ Table of Contents**

Introduction .....	1
Digital Instrument Cluster .....	1
Tire Chains .....	10

Printed in U.S.A.

Part No. 10193569 A

First Edition

---

***Important Notes About This Supplement***

This supplement should be considered a permanent part of this vehicle. It should stay with the vehicle when sold, to provide the next owner with important operating, safety and maintenance information.

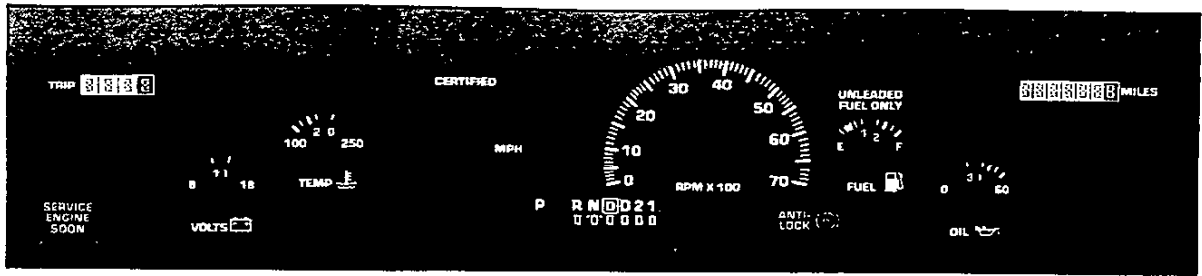
This supplement includes the latest information at the time it was printed. We reserve the right to make changes in the product after that time without further notice.

Published by **Chevrolet Motor Division**  
**General Motors Corporation**

**General Motors, GM** and the GM emblem,  
**Chevrolet** and the Chevrolet emblem and  
**Caprice** are registered trademarks of General  
Motors Corporation.

© Copyright 1990. General Motors Corporation, Chevrolet Motor Division. All rights reserved.





### ■ **Introduction**

Chevrolet would like to welcome you to the 1991 Caprice LTZ. The LTZ gives you the performance and style associated with the Caprice with additional and exclusive features.

Special LTZ features include a heavy-duty engine cooling system, heavy-duty brakes, a digital instrument cluster and a leather-wrapped steering wheel. All this plus the standard Caprice features.

We hope you are as excited about your new Caprice LTZ as we are here at Chevrolet.

### ■ **Digital Instrument Cluster**

Your instrument cluster is designed to let you know at a glance how your vehicle is running. You'll know how fast you're going, about how much fuel you have left, and many other things you'll need to know to drive safely and economically.

#### **Speedometer and Odometer**

Your speedometer lets you see your speed in miles per hour (mph). Your odometer shows how far your vehicle has been driven in miles.

#### **Warnings and Indicators**

Your Chevrolet has a number of warnings and indicators, and this section

describes them. The pictures will help you locate them.

Your warning lights go on when there may be or is a problem with one of your vehicle's functions. Warning lights can signal that something is wrong before it becomes serious enough to cause an expensive repair or replacement. Heeding your warning lights could also save you or your passengers from injury.

When one of the warning lights stays on, check the section that tells you what to do about it. Please follow the manual's advice. Waiting to do repairs can be costly — and even dangerous.



As you will see in the details on the next few pages, some warning lights come on briefly when you turn the ignition key just to let you know they're working. If you familiarize yourself with this section, you will not be alarmed when this happens. So please get to know your warning lights. They're a big help.

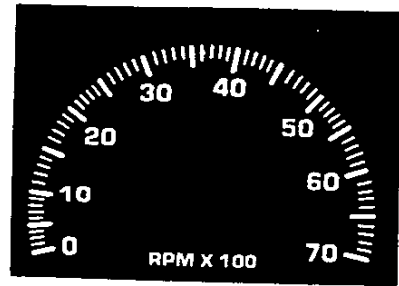
Indicator lights go on when you use your turn signals, change from low beam headlights to high beams, or when you use your hazard flashers.

The next few pages will also tell you about the indicator lights on your vehicle and help you locate them.

### Trip Odometer

The trip odometer can tell how far your car has been driven since you last set the trip odometer to zero.

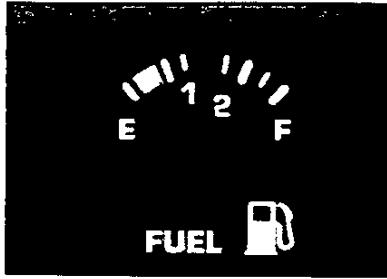
To set the trip odometer to zero, press the knob.



### Tachometer

The tachometer displays the engine speed in thousands of revolutions per minute (rpm).

F  
Y  
fi  
yo  
T  
ig  
fi  
le  
av  
H  
ha  
sit  
th  
ga  
•



### Fuel Gage

Your fuel gage shows about how much fuel is in your tank. It is to the right of your tachometer.

The fuel gage works only when the ignition switch is **On**. When the gage first reads **E** you still have a little fuel left, but you need to get more right away.

Here are four concerns some owners have had about the fuel gage. All these situations are normal and do not indicate that anything is wrong with the fuel gage.

- At the gas station, the gas pump shuts off before the gage reads **F**.

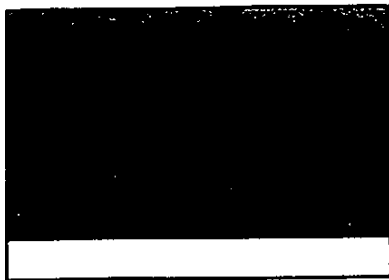
- It takes more (or less) gas to fill up than the gage reads. For example the gage reads 1/2 full, but it took more (or less) than half of the tank's capacity to fill it.
- The gage moves a little when you turn, stop or speed up.
- When you turn the engine off, the gage doesn't go back to **E**.

### Safety Belt Reminder Light

This is your safety belt reminder light.

When the key is turned to **Run** or **Start**, a light will come on for about eight seconds to remind people to fasten their safety belts. Unless the driver's safety belt is buckled, a chime will also sound.

# 1991 Owner's Manual Supplement



## Brake System Warning Light

Your Chevrolet has "dual" brakes. It's hydraulic system is divided into two parts. If one part isn't working, the other part can still work and stop you. For good braking, though, you need both systems working well.

If the warning light goes on, there could be a brake problem.

This light should come on as you start the vehicle. If it doesn't come on then, have it fixed so it will be ready to warn you if there's a problem.

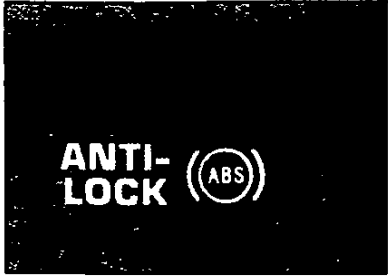
This light will also come on when you set your parking brake, and it will stay

on if your parking brake doesn't release fully. If it does stay on after your parking brake is fully released, it means you may have a brake problem. Pull off the road and stop carefully. You may notice that the pedal is harder to push. Or, the pedal may go closer to the floor. It may take longer to stop. Try the brakes after you've stopped. You may have enough braking power to get to a repair center, slowly and carefully. Or, you could find that you have lost enough braking that you have to be towed. (See the Index in your owner's manual under "Towing Your Chevrolet.")

## CAUTION



Driving with the brake warning light on can lead to an accident. Have your brakes checked immediately if your warning light stays on.

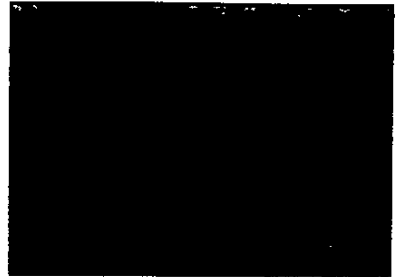


**Antilock Brake System Warning Light**

With antilock, this light will go on when you start your engine and may stay on for several seconds or so. That's normal. If the light doesn't come on, have it fixed so it will be ready to warn you if there is a problem.

If the light stays on or comes on when you're driving, stop as soon as possible

and turn the key off. Then start the engine to reset the system. If the light still stays on, or if it comes on again while you're driving, your Chevrolet needs service.

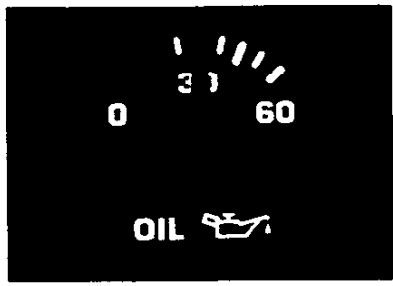


**Engine Oil Pressure Light**

If you have a problem with your oil, this light may stay on after you start your engine, or come on when you are driving. This indicates that there is not enough oil pressure to keep your engine properly lubricated and cool. The engine could be low on oil, or could have some other oil related problem. Have it fixed right away.


The oil light could also come on in three other situations:

# 1991 Owner's Manual Supplement



- When the ignition is on but the engine is not running, the light will come on as a test to show you it is working, but the light will go out when you turn the ignition to **Start**. If it doesn't come on with the ignition on, you may have a problem with the fuse or bulb. Have it fixed right away.
- Sometimes when the engine is idling at a stop, the light may blink on and off. This is normal.
- If you make a hard stop, the light may come on for a moment. This is normal.

**CAUTION**

 Don't keep driving if this light stays on. If you do, your engine can become so hot that it catches on fire. You could be burned.

**NOTICE**


The engine could stop working if it gets too hot. That would result in costly repairs not covered by your warranty.

**Engine Oil Pressure Gage**

This gage tells you if there could be a problem with your engine oil pressure. An oil pressure light will come on when your oil pressure is low.

The engine oil pressure gage shows the engine oil pressure in psi (pounds per square inch) when the engine is running. Oil pressure should be 20 to 60 psi. It may vary with engine speed, outside temperature and oil viscosity, but readings above the red area show the normal operating range. Readings in the red area tell you that the engine is low on oil, or that you might have some other oil problem. See the Index in your owner's manual under "Engine Oil."


**C**

 seri  
wa  
are  
you  
pro

**N**

Da  
neg  
cos  
wa

### CAUTION

 An engine low on oil can catch fire. You could be seriously burned. If your oil warning gage pointer is in the red area, don't keep driving. Check your oil immediately and have the problem corrected.

### NOTICE

Damage to your engine from neglected oil problems can be costly and is not covered by your warranty.

#### Engine Coolant Temperature Light

This light tells you that your engine coolant has overheated. You should stop your vehicle and turn the engine off as soon as possible.

#### Engine Coolant Temperature Gage

This gage shows the engine coolant temperature. If the gage pointer moves into the red area, your engine is too hot! That reading means the same thing as the warning light. It means that your engine coolant has overheated and you should stop your vehicle and turn off the engine as soon as possible.

#### Hot Coolant Can Burn You Badly!

In "Problems on the Road," your owner's manual shows what to do. See the Index in your owner's manual under "Engine Overheating."

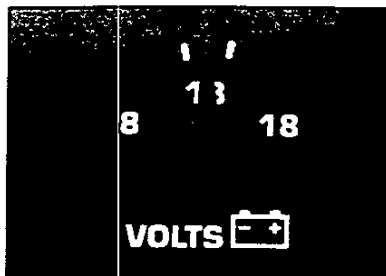
# 1991 Owner's Manual Supplement



## Charging System Light

This light will come on briefly when you turn on the ignition, but the engine is not running, as a check to show you it is working. Then it should go out when the engine starts. If it stays on, or comes on while you are driving, you may have a problem with the electrical charging system. It could indicate that you have a loose generator drive belt, or another electrical problem. Have it checked right away. Driving while this light is on could drain your battery.

If you must drive a short distance with the light on, be certain to turn off all your accessories, such as the radio and air conditioner.

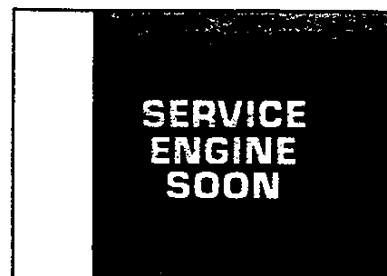


## Voltmeter

You can read battery voltage on your voltmeter. If the pointer is outside the white line while your engine is running, and it stays there, your Chevrolet needs service and should be taken to your Chevrolet dealer at once.

To save your battery until you get there, turn off all the accessories including your air system.

You also have a charging system light.



## Service Engine Soon Light

This light monitors your emission controls system. The light should come on when the ignition is on but the engine is not running, as a check to show you it is working. If it does not come on at all, have it fixed right away. If it stays on, or comes on while you are driving, the computer is indicating that you have a problem. You should take your Chevrolet in for service soon.

me  
ngine  
ou it  
t all,  
on.  
the  
a

### NOTICE

If you keep driving your Chevrolet with the **SERVICE ENGINE SOON** light on, after awhile the emission controls won't work well, your fuel economy won't be as good, and your engine may not run as smoothly. This could lead to costly repairs not covered by your warranty.

### Inflatable Restraint Light

The SIR system checks itself and the **INFL REST** light tells you if there is a problem.

It should flash for about eight seconds when you turn your ignition key to **Run** or **Start**. Then it should go out. This means the system is ready. For more information, see the index in your owner's manual under "Supplemental Inflatable Restraint (S.I.R.)."

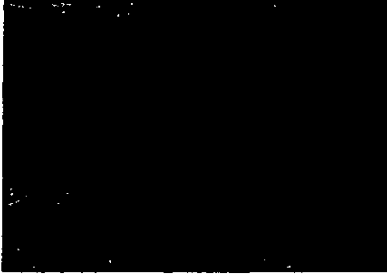
### CAUTION



Have your Chevrolet serviced right away if the **INFL REST** light doesn't come on, or stays on, or comes on when you are driving. If you don't your inflatable restraint system may not work properly.

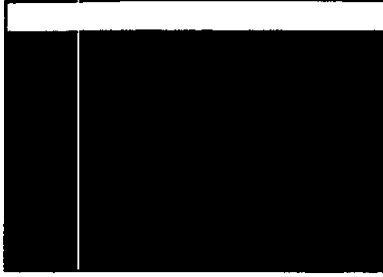


# 1991 Owner's Manual Supplement



## **Turn Signal/Lane Change Indicator Light**

A green arrow on the cluster will flash in the direction of the turn or lane change. For more information, see the Index in your owner's manual under "Turn Signal and Lane Change Indicator."



## **Headlight High Beam Indicator Light**

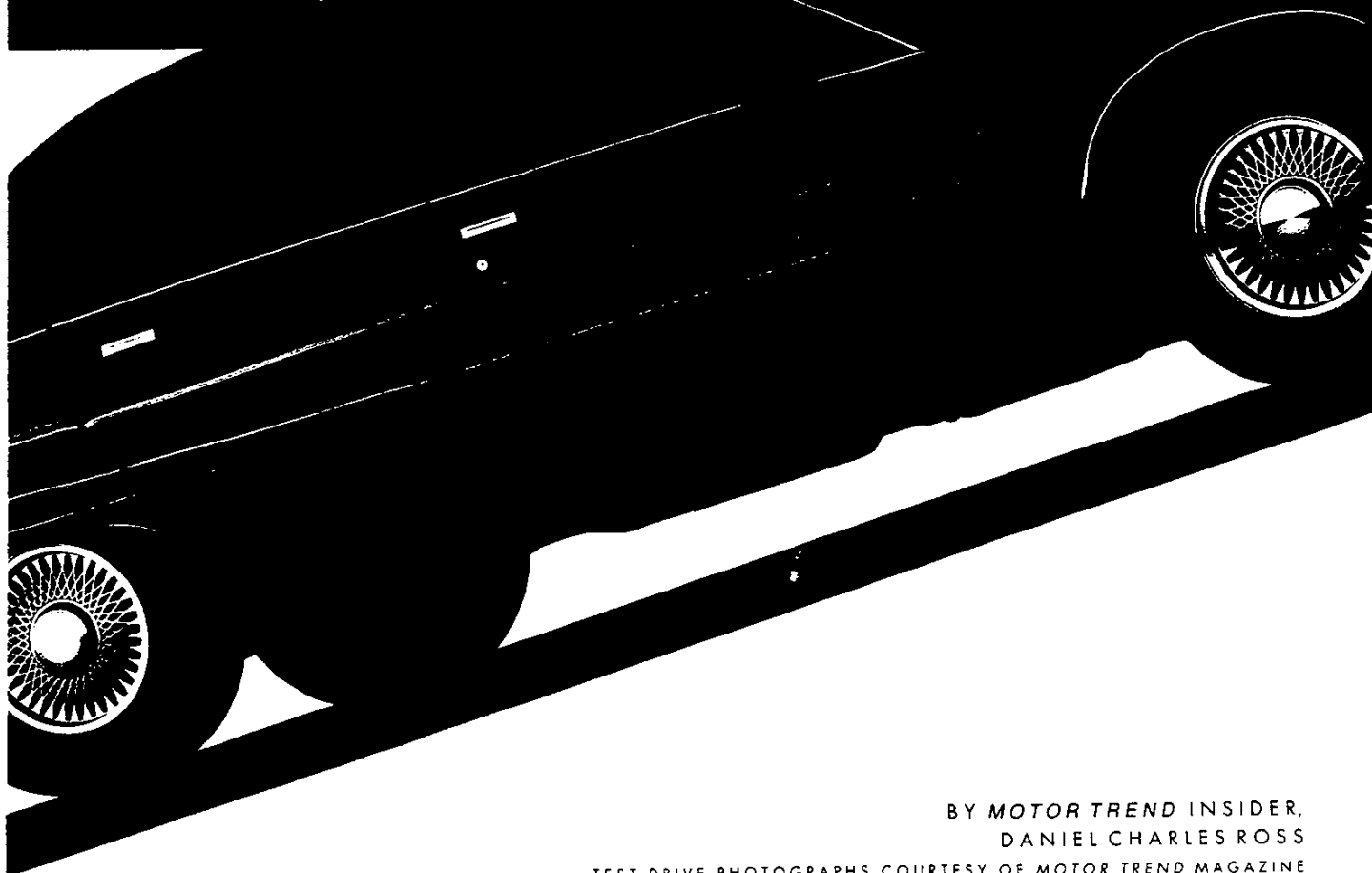
When the high beams are on, a blue light on the cluster also will be on. For more information, see the Index in your owner's manual under "Headlight High-Low Beam."

## ■ *Tire Chains*

### **NOTICE**

**Don't use tire chains; they can damage your vehicle.**

# THE CLASSIC SUCCESS STORY

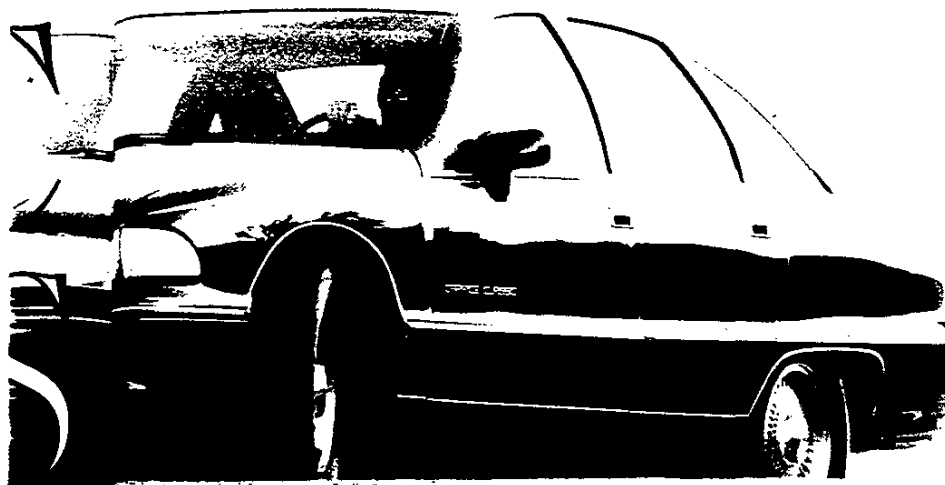


BY MOTOR TREND INSIDER,  
DANIEL CHARLES ROSS

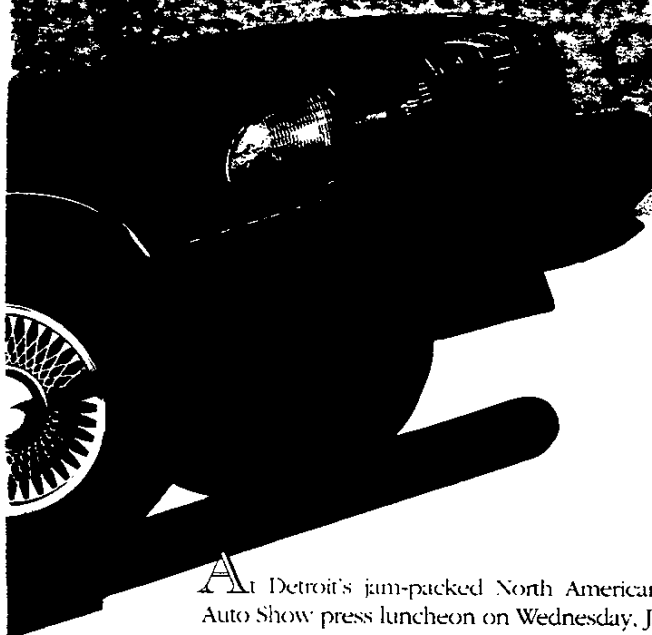
TEST DRIVE PHOTOGRAPHS COURTESY OF MOTOR TREND MAGAZINE

---

---



# How the new Chevrolet Caprice Classic LTZ became *Motor Trend's '91* “Car of the Year”



**A**t Detroit's jam-packed North American International Auto Show press luncheon on Wednesday, January 9, 1991, *Motor Trend* magazine prepares to make an important announcement. A current of anticipation crackles through the crowd. For *Motor Trend* is about to reveal the '91 trophy-winner, the recipient of the magazine's prestigious "Car of the Year" award. And Chevrolet — plus the entire automotive industry — is primed to hear the victor.

Then the room erupts, for the word is out: The Chevrolet Caprice Classic LTZ has been chosen to receive *Motor Trend's* 1991 "Car of the Year" trophy, an automotive "Oscar" in the form of the famous caliper. Blinding TV lights illuminate the car, polished to a sheen as bright as a newly minted nickel, and journalists from the world over bulldoze one another to get seats next to General Motors execs.

Lots of elated Chevrolet people gave impromptu interviews that day. The mood was understandably buoyant and upbeat. After all, you don't bag this elephant every day. Or every decade, for that matter.

But long before we *Motor Trend* auto editors ever even got to that

crowded riverfront ballroom filled with handshakes and back-slapping, there was a grueling, months-long process of elimination — for Chevrolet as well as for the magazine. I'm here to tell you from the inside how it all happened. I was there.

Winning the oldest, most coveted award in automotive history is simple: You just build the best car you possibly can. That's also the single hardest task to accomplish, because every other auto manufacturer in the "Car of the Year" competition has done the same thing.

*Motor Trend's* "Car of the Year" award was created in 1949 to recognize the biggest annual automotive achievement, and Chevys have brought home The Big Prize nine times. A hard-won nine times.

For selection of the winning car isn't done over a couple of beers in the magazine's Los Angeles headquarters, but over a long week of dawn-to-dusk testing, sweating, poking, driving, scrutinizing and scoring. When you only get one shot at winning, it has to be your best. And when the Caprice Classic LTZ arrived, it was a standout.

From the first, we were intrigued by the new, starkly modern



**Six of the candidates during Test Week, Pomona, Calif. Inset: The "fifth wheel" gauges acceleration and braking times.**

looks of a car we had known well and appreciated in its previous design. Any change always requires a leap of faith for an auto company, but Chevrolet had bet the whole farm on this one. For the Caprice Classic LTZ is a seriously changed automobile for '91.

It carries atop its rear-wheel-drive chassis the first substantially new sheet metal since the 1977 model year, in which the Caprice had been "downsized." (That '77 Caprice, by the way, had also been named *Motor Trend's* "Car of the Year.")

From the outset, the big new Chevy was a strong contender in an unbroken field of healthy competitors. We *Motor Trend* people had previously driven the '91 base Caprice. It had been on sale for months. We had conducted a road test for the base Caprice Classic and discovered a fine reformation of a longtime favorite family sedan.

But what was this LTZ stuff? Turns out the LTZ is, in fact, a sort of "demilitarized" police car. The LTZ's digital speedometer even bears the word "certified."

Except for lacking a black-and-white paint job and light bar, it resembles the package the cops are going to be using to patrol your neighborhood. Did that get our attention? You bet it did.

"Police car, huh?" we asked one another. This was clearly one of those "horsepowers of a different color" you hear about. There had been no advance word that such a performance-oriented Caprice was in the mix.

But how did the Caprice wind up as a testing candidate, anyway?

We actually began the start-up phase of the "Car of the Year" selection process last summer, when the *Motor Trend* editors first surveyed the large field of '91 model-year cars. At this stage, editors are merely casing the crowd, narrowing the field down to the handful that will later be investigated for compliance with stringent rules.

Once we make the first cut and compile the list of candidates, we send letters of nomination to the companies' top automotive executives. We include the rules, and ask these decision-makers to certify that their nominated cars meet them.

It's at this juncture that nominees often fail to make the second

cut. Key criteria are: a minimum projected sales volume of 5,000 units, at least 75 percent U.S.-sourced content (to qualify under federal regulation as a "domestic" automobile), and either an all-new exterior or one changed 85 percent or more. Vehicles not satisfying any one of these requirements are promptly eliminated. The remainder comprise the short list that will eventually yield the new "Car of the Year."

It was abundantly clear from the staff's earliest discussions that the Chevy Caprice Classic LTZ was going to be an eligible player. It's all new from bumper to bumper, sporting a strikingly up-to-the-minute attitude, with a definite emphasis on advanced styling.

The fresh, roomy interior still holds up to six adults at a time when other family sedans are steadily shrinking. Seating is well-padded, comfortable in cruise mode but gratifyingly supportive in aggressive modes. The safety belts are even comfortable to wear. And new this year is a driver's-side supplemental inflatable restraint system (airbag). Proven to help save lives, it's standard on every '91 Caprice.

Overall, the "Car of the Year" field was unusually diverse this year. It comprised a wide spectrum of automotive expression — from large to sub-subcompact, sporty to sumptuous, pricey to economical.

When the list-making was over, we had eight candidates. Besides the Chevrolet Caprice Classic LTZ, these included the Buick Park Avenue Ultra, Dodge Caravan ES, Ford Escort GT, Mercury Tracer LTS, Oldsmobile Custom Cruiser Station Wagon, Oldsmobile Ninety-Eight Touring Sedan, and Plymouth Grand Voyager LE.

It's not every day American car companies field eight new cars in one year. And we were elated, because it's one indicator of vitality in the marketplace. Plus, we just like to test new cars. But how would these eight fare when up against our tough testing process?

Each year during Test Week in Pomona, Calif., our veteran writing staff assembles a squad of America's finest new cars and platoons of drivers. Our vast array of equipment, personnel and test procedures guarantees the process is never a simple one — yet it functions with military precision.

But how do we fairly compare a Caprice Classic LTZ equipped with a four-speed automatic overdrive transmission against a minivan or a sporty little five-speed performance car? We don't. Comparisons are not made among the group of candidates themselves. Each of the nominated cars is rated only against the cars which make up its own market segment. It would be impossible to judge accurately otherwise.

In order to win, the Caprice Classic LTZ had to take a giant step

forward against a class of large four-door sedans in a similar price range, scoring points for significant improvements in a wide variety of categories. As we now know, the LTZ executed this mission with unmitigated skill. In the scoring sessions, however, over the period of our hot and sunny week in California, the car had to earn its stripes.

Every journalist has his favorite testing segments. And since I just love the smell of gasoline in the morning, the computerized test-track phase is one of mine. We deploy cast and crew to the Los Angeles County Fairgrounds test surfaces for this part of the evaluation. Rolling onto the grounds at 8:00 a.m., we were greeted by a clear sky and pleasant breezes.

The objective examination is a series of exacting, computerized tests conducted with a precise, industry-standard "fifth wheel" interfaced with a computer. The wheel, similar to a bicycle wheel/tire with sensors, takes measurements to register acceleration times and braking distances. The computer collects the data and then spews out paper printouts that serve as a permanent record.

In a second test, photo cells attached to another computer take time readings of skid-pad circuits. This test calculates the time it takes for a car to complete the 200-foot skid-pad orbit on the tarmac, and

also measures road-holding capability and suspension, etc.

There's more. The final regulated test is a 600-foot slalom course, defined by the kind of blaze-orange traffic cones you see on road construction sites. This test measures, rates and records the car's velocity as well as its high-speed handling characteristics.

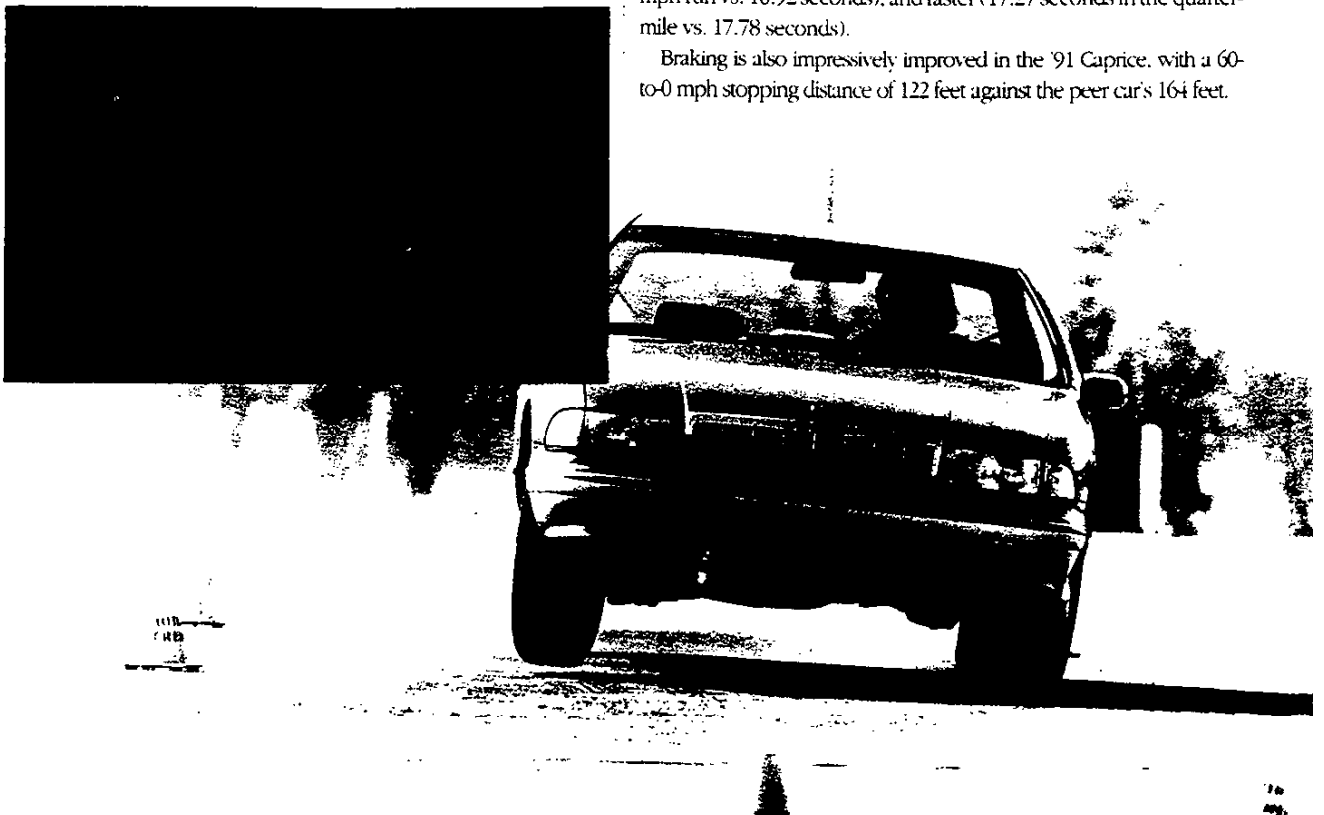
This segment makes for some of the most action-packed photography of the week, because we don't rate this event on grace under pressure, just flat-out speed through the pylons. All those numbers are generated in the presence of unflappable auditors from the accounting firm of Ernst & Young, who monitor the proceedings, put the *habeas grabbus* on the printouts, and calculate the final scores.

Performance test numbers are compared against those of a "peer car" to arrive at a score. For comparison purposes, the peer (or control) car is defined as "the best-performing version of the best-selling car in the class." We test the peer car in exactly the same way as the "Car of the Year" candidates. Ironically, in this case, our peer car was the 1990 Caprice Classic.

The outcome? The '91 LTZ is an improvement in many ways. It gets better fuel economy numbers (latest EPA estimates are 17 mpg city/22.5 combined vs. 16 mpg city/20.5 combined for the '90 Caprice Classic). We also found it quicker (we clocked a 9.70-second 0-60 mph run vs. 10.92 seconds), and faster (17.27 seconds in the quarter-mile vs. 17.78 seconds).

Braking is also impressively improved in the '91 Caprice, with a 60-to-0 mph stopping distance of 122 feet against the peer car's 164 feet.

## The "Car of the Year" award was created to recognize the biggest annual auto achievement. And Chevys have brought home the Big Prize nine times.



On a 600-foot slalom test course, the Caprice LTZ snakes around pylons with classic grace. Inset: Interior with class — the LTZ's rich optional leather seating.



**Close-up detail of LTZ's four-wheel anti-lock brakes. Inset: LTZ's standard advanced ABS helps ensure safer braking.**

These performance improvements are as important to you and your driving satisfaction in the Caprice as they are to us. And with Chevrolet's inclusion of standard Bosch four-wheel anti-lock brakes — not only in the LTZ but in every Caprice — parents can carpool Cub Scouts to their next meeting with perhaps more safety than ever before, no matter what the weather. The fact that the brakes also demonstrated terrific stopping power even for us journalistic hot-shoes was a major deciding factor.

Finally, after the automotive editors have completed the instrumented testing, all the editor/test drivers get to take turns in each car on another cone-studded course. This is our opportunity to "push the envelope." Protective helmets in place, we're able to safely enact many high-speed emergency simulations impossible on public roads.

Why? So effective cornering can be fully explored under testing conditions before the ordinary driver would have to suddenly do it on a freeway off-ramp. It's also a time to test "threshold braking" — where the driver repeatedly brakes just to the point of impending wheel lockup to assess the brakes' resistance to fade. Practical lockup, of course, is eliminated by the LTZ's anti-lock brake system, so its braking performance at higher speeds is impressive.

The subjective ride-and-drive loops are the most important components of the scoring, accounting for about 75 percent. On pre-planned routes including city streets, stretches of expressway, sleepy

neighborhood lanes and even mountain roads, the candidate cars are driven in the real world just as eventual owners would drive them. This gives each editor a full measure of quality time to scrutinize the car.

We need the time, too, because there's a lot to examine. During the ride-and-drive sessions, we're evaluating everything from the back support in the seat cushion to fit and finish.

We ask ourselves: Is the car pretty or pretty unattractive? Do the tires make unnecessary noise at highway speeds? Is there a sufficient power reserve to ensure safe merging and passing? Can the

climate control be comfortably adjusted?

To earn the "Car of the Year" caliper, the winning vehicle must perform all of these functions — and more — with an overall efficiency that surpasses any of its class peers. Other determining factors include marketplace value, outward visibility, safety-belt comfort, etc.

The final raw scores are turned over to the auditors from Ernst & Young for tabulation. A few days later when evaluation is complete, Ernst & Young informs us who the new "Car of the Year" winner is.

The subjective scoring portion of *Motor Trend's* "Car of the Year" competition exemplifies the democratic process as it was meant to be. Each editor is free to score the candidates according to his own conscience and judgment, in private, answerable to no one. The variety of styles, tastes, automotive preferences and individual personalities that comprise the magazine's staff guarantees an equal diversity of opinion. Each score sheet reflects that.

But in the case of the Caprice Classic LTZ, there was a startling unanimity of opinion. Six of the seven *Motor Trend* editors scored the LTZ as their first choice. In addition, the Caprice was the overall top point-getter in this segment by a margin wide enough to drive a whole fleet of Chevrolets through.

We applaud the LTZ for its 170-horsepower 5.0-liter V8 and the inherent safety of its anti-lock brakes and driver's-side airbag. The level of comfort available in the ample interior (complete with coffee mug/cup and coin holders), very readable dashboard gauges, and generous outward visibility is a big plus. A comfortably thick steering wheel, firm suspension calibration and large, P235/70VR15 tires all contribute to a confident feel.

In terms of styling, the Caprice Classic LTZ illustrates that Chevrolet's future is already here. All exterior panels are completely new, including the side moldings. All glass is flush-mounted for aerodynamic efficiency.

Even the mirrors are designed to cut a cleaner hole in the wind. The new LTZ incorporates such subtle design touches that seem to be small details, but contribute significantly to the overall streamlined look. It's clear that Chevrolet aimed to achieve a new standard in American sedan-making, and the performance Caprice Classic LTZ represents the pinnacle of this art.

You can catch Chevy's Caprice Classic LTZ for yourself at select 1991 touring auto show exhibits, which include a *Motor Trend* "Car of the Year" display. But merely seeing the Caprice Classic LTZ won't give you the winning experience. Driving it will. ■

ORIGINAL

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

# 1991

Manufacturer	CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Vehicle Line	
Mailing Address	CHEVROLET-PONTIAC-CANADA GROUP ENGINEERING CENTER GENERAL MOTORS CORPORATION 30003 VAN DYKE WARREN, MI 48090-9060	CHEVROLET CAPRICE SEDAN	
		Issued	Revised
		DECEMBER, 1989	APRIL, 1990

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 Motor Vehicle Manufacturers Association of the United States, Inc.

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.

Blank Forms Provided by Technical Affairs Division





1  
2  
3

4

5



# MVMA Specifications

METRIC (U.S. Customary)

## Table of Contents

---

○	1	Vehicle Models/Origin	○	Indicates Format Change From Previous Year
	2	Power Teams		
○	3	Engine		
	4	Lubrication System		
	4	Diesel Information		
	5	Cooling System		
	6	Fuel System		
	7	Vehicle Emission Control		
	7	Exhaust System		
	8-10	Transmission, Axles and Shafts		
	11	Suspension		
	12-13	Brakes, Tires and Wheels		
	14	Steering		
○	15-16	Electrical		
	17	Body — Miscellaneous Information		
	18	Restraint System		
	18	Glass		
	18	Headlamps		
	18	Frame		
	19-20	Convenience Equipment		
○	20	Trailer Towing		
	21-23	Vehicle Dimensions		
	24	Vehicle Fiducial Marks		
○	25	Vehicle Mass (Weight)		
	26	Optional Equipment Differential Mass (Weight)		
	27-33	Vehicle Dimensions Definitions - Key Sheets		
○	34	Index		

---

### NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
  - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
  - b. Nominal design dimensions are used throughout these specifications.
  - c. All linear dimensions are in millimeters (inches), and all mass (weight) specs. are in kilograms (pounds).
3. 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.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

FORM MVMA-91



1  
2  
3

4  
5  
6

7

8



# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

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

## Vehicle Origin

Design & development (company)	Chevrolet-Pontiac-GM of Canada
Where built (country)	U.S.A.
Authorized U.S. Sales marketing representative	Chevrolet Motor Division

## o Vehicle Models

Model Description & Drive (FWD/RWD/AWD/4WD)*	Make, Vehicle Models, Series, Body Type (Mfg's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
<b>CAPRICE</b>				
4-Door Notchback Sedan (RWD)	1BL19	6 (3/3)	92.4 (203.6)	
<b>CAPRICE CLASSIC</b>				
4-Door Notchback Sedan (RWD)	1BN19 (1BL19 w/Z09)	6 (3/3)	92.4 (203.6)	

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

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

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

SAE J1349 Net bhp (brake hrspwr) and Net Torque corrected to 77 deg. F / 25 deg. C and 29.61 in. Hg/100 kPA atmos. press.

		A	B	C	D	
<b>E N G I N E</b>	Engine Code	L03	L03	L05		
	Displacement Liters (cu. in.)	5.0 (305)	5.0 (305)	5.7 (350)		
	Induction system (FI, Carb, etc.)	Electronic Fuel Injection	Electronic Fuel Injection	Electronic Fuel Injection		
	Compression ratio	9.3:1	9.3:1	9.8:1		
	SAE Net at RPM	Power kW (bhp)	170 @ 4200	170 @ 4200	195 @ 440	
		Torque Newton meters (lb.ft.)	255 @ 2400	255 @ 2400	290 @ 2400	
Exhaust Single, dual		Single	Single	Single		
<b>T R A N S</b>	Transmission/ Transaxle	MD8 Auto Transmission 4-Speed	MD8 Auto Transmission 4-Speed	MD8 Auto Transmission 4-Speed		
	Axle Ratio (std. first)	2.56	3.08	3.42		

### Series Availability

### Power Teams (A - B - C - D)

Model	Code	Standard	Optional
<b>CAPRICE</b>			
4-Dr. Notchback Sedan	1BL19	A	B
<b>CAPRICE CLASSIC</b>			
4-Dr. Notchback Sedan	1BN19	A	B
<b>CAPRICE (POLICE VEHICLES SEO 9C1)</b>			
4-Dr. Notchback Sedan	1BL19	A	C

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*)           

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.0 LITER V6 (305 CID)  
 ELECTRONIC FUEL INJECTION RPO L03

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)		90 deg. V, Front, Longitudinal
Manufacturer		C-P-C Group - G.M. Corporation
No. of cylinders		8
Bore		94.89mm (3.74 in.)
Stroke		88.39mm (3.48 in.)
Bore spacing (C/L to C/L)		111.8mm (4.40 in.)
Cyl block matl & mass kg(lbs.) (machined)		Cast Iron, 68.674 (151.4)
Cylinder block deck height		229.4mm (9.025 in.)
Cylinder block length		512.8mm (20.19 in.)
Deck clearance (minimum) (above or below block)		.635mm (.025 in.) Below
Cyl. head material & mass kg (lbs.)		Cast Iron, 19.800 (43.7)
Cylinder head volume cu. cm (cu. in.)		55.9 (3.41)
Cylinder liner material		Not Applicable
Head gasket thickness (compressed)		.724mm (.0285 in.)
Minimum combustion chamber total volume cu. cm. (cu. in.)		55.2 (+/- 2.2) (3.37 +/- 0.13)
Cyl. no. system (front to rear)*	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order		1-8-4-3-6-5-7-2
Intake manifold matl & mass kg (lbs.)**		Aluminum, 6.900 (15.2)
Exh. manifold matl & mass kg (lbs.)**		Cast Iron, 4.345 (9.6) L.H., 3.800 (8.4) R.H.
Knock sensor (yes / no)		Yes
Fuel required unleaded, diesel, etc.		Unleaded
Fuel antiknock index (R + M) / 2		87
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Not Applicable
Total dressed engine mass (wt) dry***		275.1 kg. (606 lbs.) Auto., 290.8 kg. (641 lbs.) Man.

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum Alloy, .645 (1.4)
--	-------------------------------

### Engine Camshaft

Location	Cylinder Block Above Crankshaft	
Material & mass kg (weight, lbs.)	Steel, 4.124 (9.1)	
Drive type	Chain/belt	Chain
	Width/pitch	15.87mm (6.25 in.) / 12.7mm (.500 in.)

\*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:

All those items necessary to make the engine a complete ready-to-run unit.

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.7 LITER V8 (350 CID)  
 ELECTRONIC FUEL INJECTION RPO L05

### ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	90 deg. V, Front, Longitudinal, OHV	
Manufacturer	C-P-C Group - G.M. Corporation	
No. of cylinders	8	
Bore	101.6mm (4.00 in.)	
Stroke	88.4mm (3.48 in.)	
Bore spacing (C/L to C/L)	111.8mm (4.40 in.)	
Cyl block matl & mass kg(lbs.) (machined)	Cast Iron	
Cylinder block deck height	229.2mm (9.025 in.)	
Cylinder block length	506.2mm (19.93 in.)	
Deck clearance (minimum) (above or below block)	.635mm (.025 in.), Below	
Cyl. head material & mass kg (lbs.)	Cast Iron	
Cylinder head volume cu. cm. (cu. in.)	--	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	.724mm (.0285 in.)	
Minimum combustion chamber total volume cu. cm. (cu. in.)	--	
Cyl. no. system (front to rear)*	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order	1-8-4-3-6-5-7-2	
Intake manifold matl & mass kg (lbs.)**	Cast Aluminum, 6.900 (15.2)	
Exh. manifold matl & mass kg (lbs.)**	Cast Iron	
Knock sensor (yes / no)	Yes	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) / 2	87	
Engine mounts	Quantity	2
	Matl and type (elastomeric, hydroelastastic, hydraulic damper, etc.)	Elastomeric
	Added isolation (sub-frame, crossmember, etc.)	Not Applicable
Total dressed engine mass (wt) dry***	275.1 kg. (606 lbs.) Auto., 290.8 kg. (641 lbs.) Man.	

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Cast Aluminum, .540 (1.2)
--	---------------------------

### Engine Camshaft

Location	In Block Above Crankshaft	
Material & mass kg (weight, lbs.)	Steel, 4.200 (9.3)	
Drive type	Chain/belt	Chain
	Width/pitch	15.87mm (6.25 in.) / 12.70mm (.500 in.)

\*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:

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*)           

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.0 LITER V8 (305 CID)  
 ELECTRONIC FUEL INJECTION RPO L03

### Engine - Valve System

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

8/8  
 46.74 (1.84) / 38.10 (1.50)

### Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Steel, .388 (.855)
Length (axes centerline to centerline)	144.78mm (5.7 in.)

### Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular Cast Iron, 23.360 (51.50)
End thrust taken by bearing (no.)	5
Length & number of main bearings	5
Seal (material, one, two piece design, etc.)	Front
	Rear

Fluroelastomer, One Piece, Lip Seal  
 Fluroelastomer, One Piece, Lip Seal

### Engine - Lubrication System

Normal oil pressure kPa(psi) @ eng rpm	41 (6) @ 1000/124 (18) @ 2000/165 (24) @ 4000 (Hot)
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)

### Engine - Diesel Information

(NOT APPLICABLE)

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

### Engine - Intake System

(NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

\* Finished State



# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L05

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard	
Valves	Number intake/exhaust	8/8
	Head O.D. intake/exhaust	49.28mm (1.94 in.) / 38.10mm (1.50 in.)

### Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Steel, .388 (0.855)
Length (axes centerline to centerline)	144.78mm (5.7 in.)

### Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular Cast Iron, 22.900 (50.49)	
End thrust taken by bearing (no.)	5	
Length & number of main bearings	5	
Seal (material, one, two piece design, etc.)	Front	Fluroelastomer, One Piece, Lip Seal
	Rear	Fluroelastomer, One Piece, Lip Seal

### Engine - Lubrication System

Normal oil pressure kPa (psi) @ eng rpm	Min. (Hot): 41 (6) @ 1000 / 124 (18) @ 2000 / 165 (24) @ 4000
Type oil intake (floating, stationary)	Stationary
Oil filter sys. (full flow, part, other)	Full Flow
Capacity of c/case, less filter--refill-L (qt.)	3.8 (4.0)

### Engine - Diesel Information (NOT APPLICABLE)

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

### Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

\* Finished State

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*)           

## METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L03

### Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard		
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery		
Radiator cap relief valve pressure kPa (psi)		103.4 (15.0)		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open @ deg's C(F)	91 (195)		
Water Pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	14		
	Number of pumps	1		
	Drive (V-belt, other)	Serpentine Belt		
	Bearing type	Sealed Double Row Ball		
	Impeller material	Steel		
Housing material		Cast Iron		
By-pass recirculation type (inter., ext.)		Internal		
Cooling system capacity	With heater - L (qt.)	Not Applicable		
	With air conditioner-L(qt.)	15.94 (16.85)		
	Opt. equip. specify-L(qt.)	16.54 (17.48), With RPO V08 Trailing Package		
Water jackets full length of cyl(yes,no)		Yes		
Water all around cylinder (yes, no)		Yes		
Water jackets open at head face (yes,no)		Yes		
Radiator core	Std., A/C, HD	Standard	A/C	HD
	Type (cross-flow, etc.)	Cross-Flow		
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube		
	Matl., mass kg (wt., lbs.)	Copper-Brass, High Efficiency Radiator		
	Width	668.0 mm	668.0 mm	668.0 mm
	Height	429.7 mm	429.7 mm	429.7 mm
	Thickness	25.0 mm	25.0 mm	40.2 mm
	Fins per inch *	2.5 mm	2.5 mm	2.5 mm
Radiator end tank material		Plastic		
Fan	Std., elec., opt.	Standard	A/C	
	Number of blades & type (flex, solid, material)	5 Alum., Solid	5, Alum., Solid	
	Diameter & projected width	508.0 mm (20.0 in.)	508.0 mm (20.0 in.)	
	Ratio(fan to cmkshft.rev.)	1.096:1	1.25:1	
	Fan cutout type	Clutch	Clutch	
	Drive type (direct, remote)	Serpentine Belt	Serpentine Belt	
	RPM at idle (elec.)	--	--	
	Motor rating(wattage)(elec)	--	--	
	Motor switch (type & location/elec.)	--	--	
	Switch point (temp., pressure/elec.)	--	--	
Fan shroud (material)		Plastic	Plastic	

\* - Distance Between Top Of Fins.

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.7 LITER V8 (350 CID) -  
 ELECTRONIC FUEL INJECTION RPO L05

### Engine - Cooling System

Coolant recovery system (std, opt, n.a.)		Standard		
Coolant fill location (rad., bottle)		Bottle, Coolant Recovery		
Radiator cap relief valve pressure kPa (psi)		103.4 (15.0)		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open @ deg's C(F)	91 (195)		
Water Pump	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	14		
	Number of pumps	1		
	Drive (V-belt, other)	Serpentine Belt		
	Bearing type	Sealed Double Row Ball		
	Impeller material	Steel		
	Housing material	Cast Iron		
By-pass recirculation type (inter., ext.)		Internal		
Cooling system capacity	With heater - L (qt.)	Not Applicable		
	With air conditioner-L(qt.)	15.94 (16.85)		
	Opt. equip. specify-L(qt.)	16.54 (17.48), With RPO V08 Trailing Package		
Water jackets full length of cyl(yes,no)		Yes		
Water all around cylinder (yes, no)		Yes		
Water jackets open at head face (yes,no)		Yes		
Radiator core	Std., A/C, HD	AC	HD	Police
	Type (cross-flow, etc.)	Cross-Flow		
	Construction (fin & tube mechanical, braze, etc.)	Fin & Tube		
	Matl., mass kg (wgt.,lbs.)	Copper-Brass, High Efficiency Radiator		
	Width	668.0 mm	668.0 mm	668.0 mm
	Height	429.7 mm	429.7 mm	429.7 mm
	Thickness	40.2 mm	40.2 mm	40.2 mm
	Fins per inch	2.5 mm	2.5 mm	3.0 mm
Radiator end tank material		Plastic		
Fan	Std., elec., opt.	AC - HD		
	Number of blades & type (flex, solid, material)	5, Aluminum, Solid		
	Diameter & projected width	508.0mm (20.0 in.)		
	Ratio(fan to crnkshft.rev.)	1.25:1		
	Fan cutout type	Clutch		
	Drive type (direct, remote)	Serpentine Belt		
	RPM at idle (elec.)	--		
	Motor rating(wattage)(elec)	--		
	Motor switch (type & location/elec.)	--		
	Switch point (temp.,/ pressure/elec.)	--		
Fan shroud (material)		Plastic		

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L03

### Engine - Fuel System (See supplemental page for details of Fuel Inj. Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		Preset-No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Fuel Injection At Throttle Body (2)
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. kPa (psi)	76 (11.0)
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	--
	Automatic	--
Intake manifold heat control (exhaust or water thermostatic or fixed)		Exhaust
Air cleaner type		Replaceable Paper Element Single Snorkel
Fuel filter (type/location)		Black Nylon 12/Attaches To Frame, Right Side, Near Muffler
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Press. range kPa (psi)	Normal Operating: 83.0 kPa Shut Off Pressure: 135 kPa
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	@ 83 kPa = 23 - 30 Grams/Second

### Fuel Tank

Capacity refill L (gallons)		23 Gallons
Location (describe)		Below Rear Compartment Pan
Attachment		Straps (Z Design) Attach Below Rear Compartment Pan
Material & Mass kg (weight lbs.)		HDPE Mass - See Below
Filler pipe	Location & material	Sedan - Rear 1008-1010 Steel; Coating - Lead/Tin
	Connection to tank	Clamped With Hose Coupler
Fuel line (material)		Nylon Tubing 12
Fuel hose (material)		Rubber
Return line (material)		Nylon Tubing 12
Vapor line (material)		Nylon Tubing 12
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Sictr switch or valve	"
	Separate fill	"

Sedan  
 Mass: Without Sender 11.1 kg  
 With Sender 12.7 kg

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L05

### Engine - Fuel System (See supplemental page for details of Fuel Inj, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		AC/Rochester Products
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		Preset-No Adjustment Provided
Fuel Injection	Point of inj. (no.)	Throttle Body
	Constant, pulse, flow	Pulse
	Control (elec., mech.)	Electronic
	Sys. press. kPa (psi)	---
Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	---
	Automatic	---
Intake manifold heat control (exhaust or water thermostatic or fixed)		Exhaust
Air cleaner type		Replaceable Paper Element Single Snorkel
Fuel filter (type/location)		Black Nylon 12/Attaches To Frame, Right Side, Near Muffler
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Press. range kPa (psi)	Normal Operating: 83.0 kPa Shut Off Pressure: 135 kPa
	Flow rate at regulated pressure (L (gal)/hr @ kPa (psi))	@ 83 kPa = 23 - 30 Grams/Second

### Fuel Tank

Capacity refill L (gallons)		23 Gallons
Location (describe)		Below Rear Compartment Pan
Attachment		Straps (Z Design) Attach Below Rear Compartment Pan
Material & Mass kg (weight lbs.)		HDPE Mass - See Below
Filler pipe	Location & material	Sedan - Rear 1008-1010 Steel; Coating - Lead/Tin
	Connection to tank	Clamped With Hose Coupler
Fuel line (material)		Nylon Tubing 12
Fuel hose (material)		Rubber
Return line (material)		Nylon Tubing 12
Vapor line (material)		Nylon Tubing 12
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	"
	Location & material	"
	Attachment	"
	Sight switch or valve	"
	Separate fill	"

Sedan  
 Mass: Without Sender 11.1 kg  
 With Sender 12.7 kg

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.0 LITER V8 (305 CID)  
 ELECTRONIC FUEL INJECTION RPO L03

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Pump Vane
		Driven by	Serpentine Drive Belt
		Air distribution (head, manifold, etc.)	Exhaust Manifold
		Point of entry	Exhaust Manifold Takedown
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Pulse Width, Modulated
		Exhaust source	Manifold Exhaust Crossover
		Point of exh.inj. (spacer, carb., manifold, other)	Inlet Manifold
	Catalytic Converter	Type	Single Bed (Oxidizing And Reducing)
		Number of	1
		Location(s)	Beneath RF Underbody
		Volume L (cu.in)	2.78 (169.8)
Substrate type		Monolith	
Noble metal type		Platinum (Pt), Palladium (Pd), Rhenium (Rh)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		TBI Unit
	Air inlet (breather cap, other)		Rocker Cover
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	Not Applicable
	Vapor storage provision		Canister
Electronic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single, With Cross-Over
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		1, Reverse Flow
Resonator no. & type		1, Straight
Exhaust pipe	Branch o.d., wall thickness	*
	Main o.d., wall thickness	57.15mm, 1.8mm Min
	Matl. & Mass kg (wght.lbs.)	Stainless Steel 3.475 kg
Intermediate pipe	o.d. & wall thickness	63.5mm, 0.80mm Min
	Matl. & Mass kg (wght.lbs.)	Aluminum Coated Steel 9.348 kg (With Muffler)
Tail pipe	o.d. & wall thickness	63.5mm, 1.73mm Min
	Matl. & Mass kg (wght.lbs.)	Aluminum Coated Steel Sedan: 8.050 kg (With Resonator)

\* 50.8mm, Inner Tube SAE 1008 Or 1010; 0.81mm Min, Outer Tube Stainless Steel 0.86mm Min.  
 Inside And Outside Tubes Must Not Be Bonded Together.

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.7 LITER V8 (350 CID)  
 ELECTRONIC FUEL INJECTION RPO L05

## Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		Air Injection W/Computer Command Control
	Air injection	Pump or pulse	Pump Vane
		Driven by	Serpentine Drive Belt
		Air distribution (head, manifold, etc.)	Exhaust Manifold
		Point of entry	Exhaust Manifold
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Backpressure Valve
		Exhaust source	
		Point of exh.inj. (spacer, carb., manifold, other)	Intake Manifold Passage
	Catalytic Converter	Type	Single Bed Monolith
		Number of	1
		Location(s)	Under Floor
		Volume L (cu.in)	2.78 (169.8)
Substrate type		Ceramic	
Noble metal type		Platinum (Pt), Palladium (Pd), Rhodium (Rh)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		PCV - Air Cleaner
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		TBI Unit
	Air inlt(breather cap,other)		Rocker Cover
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	Not Applicable
	Vapor storage provision		Canister
Electronic System	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

## Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single, With Cross-Over
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass kg (weight lbs.)		1, Reverse Flow
Resonator no. & type		1, Straight
Exhaust pipe	Branch o.d., wall thickness	*
	Main o.d., wall thickness	57.15mm, 1.8mm Min
	Matl. & Mass kg (wght.lbs.)	Stainless Steel 3.475 kg
Inter-mediate pipe	o.d. & wall thickness	63.5mm, 0.80mm Min
	Matl. & Mass kg (wght.lbs.)	Aluminum Coated Steel 9.348 kg (With Muffler)
Tail pipe	o.d. & wall thickness	63.5mm, 1.73mm Min
	Matl. & Mass kg (wght.lbs.)	Aluminum Coated Steel Sedan: 8.050 kg (With Resonator)

\* 50.8mm, Inner Tube SAE 1008 Or 1010; 0.81mm Min, Outer Tube Stainless Steel 0.86mm Min.  
 Inside And Outside Tubes Must Not Be Bonded Together.

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.0 LITER V8 (305 CID)  
 ELECTRONIC FUEL INJECTION RPO L03

### Transmissions/Transaxle (Std., Opt., N.A.) (NOT APPLICABLE)

Manual 3-speed (manufacturer/country)	
Manual 4-speed (manufacturer/country)	
Manual 5-speed (manufacturer/country)	
Automatic (manufacturer/country)	
Auto. overdrive (manufacturer/country)	

### Manual Transmission/Transaxle (NOT APPLICABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity L (pt.)	
	Type recommended	

### Clutch (Manual Transmission) (NOT APPLICABLE)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		
Linkage (hyd., cable, rod, lever, other)		
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal) N (lbs)		
Clutch facing	Facing mfr. & matl. coding	
	Facing matl. & construction	
	Rivets per facing	
	Outside x inside dia. (nom.)	
	Total eff. area sq cm (sq in)	
	Thickness (pressure plate side/fly wheel side)	
	Rivet depth (pressure plate side/fly wheel side)	
Engagement cushion method		
Release bearing type & method lub.		
Torsional damping method, springs, hysteresis		

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



# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

5.7 LITER V8 (350 CID) ELECTRONIC FUEL INJECTION RPO L05
---

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

Manual 3-speed (manufacturer/country)	Not Applicable
Manual 4-speed (manufacturer/country)	"
Manual 5-speed (manufacturer/country)	"
Automatic (manufacturer/country)	"
Auto. overdrive (manufacturer/country)	Standard, (Hydra-Matic/U.S.A.)

### Manual Transmission/Transaxle (NOT APPLICABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case mat'l. & mass kg (lbs)*		
Lubricant	Capacity L (pt.)	
	Type recommended	

### Clutch (Manual Transmission) (NOT APPLICABLE)

Clutch manufacturer		
Clutch type (dry, wet; single, multiple disc)		
Linkage (hyd., cable, rod, lever, other)		
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal) N (lbs)		
Clutch facing	Facing mfr. & mat'l. coding	
	Facing mat'l. & construction	
	Rivets per facing	
	Outside x inside dia. (nom.)	
	Total eff. area sq cm (sq in)	
	Thickness (pressure plate side/fly wheel side)	
	Rivet depth (pressure plate side/fly wheel side)	
Engagement cushion method		
Release bearing type & method lub.		
Torsional damping method, springs, hysteresis		

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

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L03

### Automatic Transmission/Transaxle (See Power Teams for Transmission Usage)

Trade Name		700-R4 (4L60)
Type and special features (describe)		4-Speed Overdrive Automatic With Lock-Up Converter Clutch
Gear selector	Location (column, floor, other)	Steering Column
	Ltr./No. designation (e.g. PRND21)	P-R-N-D -D-2-1
	Shift interlock (yes, no, describe)	No
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00***
	4th	0.70***
	Reverse	2.29
Max. upshift speed - drive range [km/h (mph)]		Not Available
Max. kickdown speed - drive range [km/h (mph)]		"
Min. overdrive speed [km/h (mph)]		"
Torque converter	Number of elements	3
	Max. ratio at stall	Not Available
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298mm (11.73 in.)
	Capacity factor "K"	115
Lubricant	Capacity (refill L(pt.))	4.7 (10)
	Type recommended	Dexron II ATF
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard. Integral With Radiator
Trans. mass [kg(lbs)] & case matl.**		Aluminum, 74.20 (163.5)

### All Wheel / 4 Wheel Drive (NOT APPLICABLE)

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

\* Input speed / square root of torque.  
 \*\* Dry weight including torque converter. If other, specify.  
 \*\*\* Converter Clutch Engagement.

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description **5.7 LITER V8 (350 CID)**  
 Engine Code **ELECTRONIC FUEL INJECTION RPO L05**

### Automatic Transmission/Transaxle

Trade Name		Hydra-Matic 700-R4 (4L60)
Type and special features (describe)		4-Speed Overdrive Automatic With Lock-up Converter Clutch
Gear selector	Location (column, floor, other)	Column
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-D-2-1
	Shift interlock (yes, no, describe)	No
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00***
	4th	0.70***
	Reverse	2.29
Max. upshift speed - drive range [km/h (mph)]		1-2 [53 (33)] 2-3 [98 (61)] 3-4 [161 (100)]
Max. kickdown speed - drive range [km/h (mph)]		3-2 [80 (50)] 2-1 [51 (32)]
Min. overdrive speed [km/h (mph)]		50 (31)
Torque converter	Number of elements	3
	Max. ratio at stall	2.15
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	298mm (11.73 in.)
	Capacity factor "K"	115
Lubricant	Capacity (refill L(pt.))	4.7 (10)
	Type recommended	Dexron II ATF
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard, Integral With Radiator
Trans. mass [kg(lbs)] & case matl.**		Aluminum, 74.20 (163.5)

### All Wheel / 4 Wheel Drive (NOT APPLICABLE)

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

\* Input speed / square root of torque.  
 \*\* Dry weight including torque converter. If other, specify.  
 \*\*\* Converter Clutch Engagement.

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L03

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

Axle ratio (or overall top gear ratio)	2.56 (1.79)	3.08 (2.06)	
Ring gear o.d.	8.5	8.50	
No. of teeth	Pinion	16	13
	Ring gear	41	40

### Rear Axle Unit

Description	Semi-Floating Axle, Overhung Hypoid Drive Pinion And Ring Gear	
Limited slip differential (type)	Cone Clutch	
Drive pinion	Type	Hypoid Gear
	Offset	44.0 (1.75)
No. of differential pinions	2	
Pinion/differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Collapsible Sleeve
Driving wheel bearing (type)	Direct Or Single Row Cylindrical	
Lubricant	Capacity L (pt.)	2.0 (4.2)
	Type recommended	GL-5 Gear Lubricant

### Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed transmission	Not Applicable	
	Manual 4-speed transmission	"	
	Manual 5-speed transmission	"	
	Overdrive	"	
	Automatic transmission	76.2 (3.0) x 1384 (54.49) x 1.65 (.065) LO3 & 700-R4 & 8.5" Axle	
Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lub. (fitting, prepack)	None	
Slip yoke	Type	Splined	
	Number of teeth	27	
	Spline o.d.	29.858 (1.175)	
Universal joints	Make and mfg. no.	Front	Saginaw Division, 44
		Rear	Saginaw Division, 44
	Number used	2	
	Type (ball and trunnion, cross)	Cross	
	Rr. attach (u-bolt, clamp, etc)	Strap & Bolt	
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubrication (fitting, prepack)		Pre-Packed	
Drive taken through (torque tube, arms or springs)		Control Arm	
Torque taken through (torque tube, arms or springs)		Control Arm	

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

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*)

## METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L03

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

Axle ratio (or overall top gear ratio)		2.56 (1.79)
Ring gear o.d.		8.5
No. of teeth	Pinion	16
	Ring gear	41

### Rear Axle Unit

Description		Semi-Floating Axle, Overhung Hypoid Drive Pinion And Ring Gear
Limited slip differential (type)		Cone Clutch
Drive pinion	Type	Hypoid Gear
	Offset	44.0 (1.75)
No. of differential pinions		2
Pinion/differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Collapsible Sleeve
Driving wheel bearing (type)		Direct Or Single Row Cylindrical
Lubricant	Capacity L (pt.)	2.0 (4.2)
	Type recommended	GL-5 Gear Lubricant

### Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed transmission	Not Applicable	
	Manual 4-speed transmission	"	
	Manual 5-speed transmission	"	
	Overdrive	"	
	Automatic transmission	76.2 (3.0) x 1384 (54.49) x 1.65 (.065) LO3 & 700-R4 & 8.5" Axle	
Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lub. (fitting, prepack)	None	
Slip yoke	Type	Splined	
	Number of teeth	27	
	Spline o.d.	29.858 (1.175)	
Universal joints	Make and mfg. no.	Front	Saginaw Division, 44
		Rear	Saginaw Division, 44
	Number used	2	
	Type (ball and trunnion, cross)	Cross	
	Rr. attach (u-bolt, clamp, etc)	Strap & Bolt	
	Bearing	Type (plain, anti-friction)	Anti-Friction
Lubrication (fitting, prepack)		Pre-Packed	
Drive taken through (torque tube, arms or springs)		Control Arm	
Torque taken through (torque tube, arms or springs)		Control Arm	

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

# MVMA Specifications

Vehicle Line CAPRICE POLICE SEDAN (SEO 9C1)  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description	5.7 LITER V8 (350 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L05

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

Axle ratio (or overall top gear ratio)		3.42 (2.38)
Ring gear o.d.		8.5
No. of teeth	Pinion	12
	Ring gear	41

## Rear Axle Unit

Description		Semi-Floating Axle, Overhung Hypoid Drive Pinion And Ring Gear
Limit slip differential (type)		Cone Clutch
Drive pinion	Type	Hypoid Gear
	Offset	44.0 (1.75)
No. of differential pinions		2
Pinion/differential	Adjustment (shim, etc.)	Shim
	Bearing adjustment	Collapsible Sleeve
Driving wheel bearing (type)		Direct Or Single Row Cylindrical
Lubricant	Capacity L (pt.)	2.0 (4.2)
	Type recommended	GL-5 Gear Lubricant

## Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight Tube	
Outer diam. x length* x wall thickness	Manual 3-speed transmission	Not Applicable	
	Manual 4-speed transmission	"	
	Manual 5-speed transmission	"	
	Overdrive	"	
	Automatic transmission	76.2 (3.0) x 1384 (54.49) x 1.65 (.065) LO5 & MD8 & 8.5" Axle	
Inter-mediate bearing	Type (plain, anti-friction)	None	
	Lub. (fitting, prepack)	None	
Slip yoke	Type	Splined	
	Number of teeth	27	
	Spline o.d.	29.858 (1.175)	
Universal joints	Make and mfg. no.	Front	Saginaw Division, 44
		Rear	Saginaw Division, 44
	Number used	2	
	Type (ball and trunnion, cross)	Cross	
	Rr. attach (u-bolt, clamp, etc)	Strap & Bolt	
Bearing	Type (plain, anti-friction)	Anti-Friction	
	Lubrication (fitting, prepack)	Pre-Packed	
Drive taken through (torque tube, arms or springs)		Control Arm	
Torque taken through (torque tube, arms or springs)		Control Arm	

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

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*)           

## METRIC (U.S. Customary)

Body Type And/Or

Engine Displacement

ALL

### Suspension – General Including Electronic Controls

Car leveling	Std./opt./not avail.	Not Applicable	
	Manual/automatic control	"	
	Type (air/hydraulic)	"	
	Primary/assist spring	"	
	Rear only/4 wheel leveling	"	
	Single/dual rate spring	"	
	Single/dual ride heights	"	
Shock absorber damping controls	Provision for jacking	"	
	Standard/option/not avail.	Not Applicable	
	Manual/automatic control	"	
	Number of damping rates	"	
	Type of actuation (manual/ electric motor/air, etc.)	"	
	s e n s o r s	Lateral acceleration	"
		Deceleration	"
Acceleration		"	
Road surface		"	
Shock absorber (front & rear)	Type	Sed. Base 25mm Tw.Tube Gas Chrgd./FE2 & 7B3 Sed. 32mm Tw.Tube PLIA Cell	
	Make	Delco Products	
	Piston diameter	Base 25mm (1 in.) / FE2 32mm (1.26 in.)	
	Rod diameter	Base 12.7mm (0.5 in.) / FE2 (12.7mm (0.5 in.)	

### Suspension – Front

Type and description		SLA
Travel*	Full jounce	90mm @ Design (3 Passenger)
	Full rebound	108mm @ Design (3 Passenger)
Spring	Type (coil, leaf, other & matl)	Coil (Steel/Warm Set, No Paint)
	Insulators (type & matl)	Front Upper (Natural Rubber)
	Size (coil design height & i.d.)	Checking Height: 296.8mm I.D.: 102.9mm
	Spring rate N/mm (lb./in.)	Base Sedan 53 (303) FE2 Sedan 77 (440)
	Rate @ wheel N/mm (lb./in)	Base Sedan 27 (154) FE2 Sedan 39 (223)
Stabilizer	Type (link, linkless, frmless)	Link
	Material & bar diameter	Steel Base Sedan 26.0mm/FE2 Sedan 30.0mm/7B3 Sedan 29.0mm

### Suspension – Rear

Type and description		Salisbury, Solid Axle
Travel*	Full jounce	110mm @ Design (3 Passenger)
	Full rebound	129mm @ Design (3 Passenger)
Spring	Type (coil, leaf, other & matl)	Coil (Steel, Warm Set, Paint)
	Size (length x width, coil design height & i.d.)	Checking Height: 302.7 Sedan I.D.: 140.0 Sedan
	Spring rate N/mm (lb/in)	Base Sedan 18 (103)/FE2/7B3 Sedan 27 (154)
	Rate @ wheel N/mm (lb/in)	Base Sedan 17.8 (101)/FE2/7B3 Sedan 26.6 (152)
	Insulators (type & material)	Upper (Natural)
	If leaf	No. of leaves
Shackle (comp or tens)		"
Stabilizer	Type (link, linkless, frmless)	Base: None FE2: Linkless
	Material & bar diameter	Base: None FE2: 24.0 Steel 7B3: 25.0
Track bar (type)		Not Applicable

\* Define load condition:

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Body Type And/Or

ALL

Engine Displacement

Brakes - Service

Description		Single Caliper Disc Front Duo-Servo Drum Rear			
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Delco Moraine NDH, Standard Disc			
	Rear (disc or drum)	Delco Moraine NDH, Standard Drum			
Valving type(prop, delay, metering, other)		Combination, Metering And Proportioning			
Power brake (std., opt., n.a.)		Standard			
Booster type(rmt, intgrl, vac., hyd., etc.)		Vacuum			
Vacuum	Source (inline, pump, etc.)	Engine Manifold			
	Reservoir (volume cu. in.)	Not Applicable			
	Pump-type	"			
Traction Control	Operational speed range	"			
	Type engine intervention	"			
Anti-lock device	Front/rear (std., opt., n.a.)	Standard			
	Manufacturer	Robert Bosch Corporation			
	Type (electronic, mech.)	Electronic			
	Number sensors or circuits	3			
	No. anti-lock hyd. circuits	3			
	Integral or add-on system	Add-On			
	Yaw control (yes, no)	Yes			
Hydraulic power source		Electrical			
Effective area sq. cm. (sq. in.)*		740 (114.7)			
Gross Lng area sq cm (sq in)** (F/R)		270.2 (41.9)/521.5 (80.8)			
Swept area sq cm (sq in)*** (F/R)		1563.3 (242.3)/763.5 (118.34), Sedan; 1563.3 (242.3)/883.9 (137.0), Police			
Rotor	Outer working diameter	F	305mm (12 in.)		
	Inner working diameter	F	208mm (8.19 in.)		
	Thickness	F	25.4mm (1 in.)		
	Matl & type (vented/sld)	F	Cast Iron Vented		
Drum	Diameter & width	R	241mm (9.5 in.)/51mm (2 in.), Sedan; 279mm (11 in.)/51mm (2 in.), Police		
	Type and material:	R	Cast Iron Finned		
Wheel cylinder bore		22.2mm (7/8 in.)			
Master cylinder	Bore/stroke	28.6mm Bore/37.06mm Stroke (Worst Case)			
Pedal arc ratio		3.5:1			
Line pressure at 445 N (100 lb.) pedal load kPa (psi)		8614 kPa (1250 psi)			
Lining clearance		F/R	0mm (0 in.)/.75mm (.030 in.)		
Brake lining	Front wheel	Bonded or riveted		Riveted (8)	
		Rivet size		Head: 9.1mm (.359 in.)/Shank: 5.3mm (.21 in.)	
		Manufacturer		Bendix	
		Lining code *****		GM333 EE	
		Material		See Lining Code	
		****	Pri. or out-brd	66.87 cu. cm (4.08 cu. in.)	
		Size	Sec. or in-brd	66.87 cu. cm (4.08 cu. in.)	
	Shoe thcknss. (no lng)		3.2mm (.125 in.) Outboard/5.1mm (.200 in.) Inboard		
	Rear wheel	Bonded or riveted		Riveted	
		Manufacturer		Delco Products	
		Lining code *****		Delco 224 FF (Primary), Delco 235 FF (Secondary)	
		Material		See Lining Code	
		****	Pri. or out-brd	59.65 cu. cm. (3.64 cu. in.), Sedan; 77.08 cu. cm. (4.80 cu. in.), Police	
		Size	Sec. or in-brd	98.92 cu. cm. (6.05 cu. in.), Sedan; 114.47 cu. cm. (7.11 cu. in.), Police	
Shoe thcknss (no lng)		1.80 - 2.16mm (.071 - .085 in.)			

\* Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.  
 \*\*\* Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circum.)  
 (Disc brake: Square of Outer Working Dia. - Square of inner Working Dia. multiplied by Pi/2 for each brake.)  
 \*\*\*\* Size for drum brakes includes length x width x thickness.  
 \*\*\*\*\* Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.



# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

ALL

### Tires And Wheels (Standard)

Tires	Size (load range, ply)		P205/75R15 Base
	Type (bias, radial, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	30
		Rear kPa (psi)	30
	Rev/mile-at 70 km/h(45mph)		477
Wheels	Type & material		Stamped Steel
	Rim (size & flange type)		15 x 7 "J"
	Wheel offset		7.6mm
	Attachment	Type(bolt,stud)	Stud
		Circle diameter	5."
Number & size		5 x 12mm	
Spare	Tire and wheel		T145/80D16 16 x 4
	Storage position & location (describe)		Under Trunk Floor

### Tires And Wheels (Optional)

Tire size (load range, ply)		P225/70R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Cast Aluminum
Rim (size, flange type and offset)		15 x 7 "JJ" x 8.0mm
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
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		Pedal
Location of control		Dash Panel
Operates on		Cable
If separate from service brakes	Type(internal or external)	Internal
	Drum diameter	241mm (9.5 in.)
	Lining size (length x width x thickness)	Primary 59.65 cu. cm. Secondary 98.92 cu. cm.

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

ALL

## Steering

Manual (std., opt., n.a.)		Not Applicable		
Power (std., opt., n.a.)		Standard		
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt		
	Manufacturer	Saginaw Division		
	(std., opt., n.a.)	Optional		
Wheel diameter <sup>m</sup> (W9) SAE J1100	Manual	Not Applicable		
	Power	387mm O.D.		
Turning diameter <sup>m</sup> (ft.)	Out-side front	Wall to wall (l. & r.)	40'6" - 42'5"	
		Curb to curb (l. & r.)	37'8" - 39'9"	
	In-side rear	Wall to wall (l. & r.)	20'7" - 22'6"	
		Curb to curb (l. & r.)	21'1" - 23'2"	
Scrub Radius *		Not Available		
Manual	Gear	Type	Not Applicable	
		Manufacturer	"	
		Ratios	Gear	"
			Overall	"
	No. wheel turns(stop to stop)		"	
Power	Type (coaxial, elec. hyd., etc.)		Hydraulic	
	Manufacturer		Saginaw Division	
	Gear	Type	Integral	
		Ratios	Gear	14:1, 12.7:1 (Police) & Trailering
			Overall	16.07, 15.3 (Police)
	Pump (drive)		Belt	
No. wheel turns(stop to stop)		1.624/1.546, 1.564/1.494 (Police)		
Linkage	Type		Paralleloram W/Lube Fittings	
	Location (front or rear of wheels, other)		Front	
	Tie Rods (one or two)		See Linkage	
Steering axis	Inclination at camber (deg.)		0 +/- .8	
	Bear-ings (type)	Upper	No: Applicable	
		Lower	"	
		Thrust	"	
Steering spindle/knuckle & joint type		Tapered Stud		

\* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.  
 \*\* See Page 22.

# o MVMA Specifications

Vehicle Line CAPRICE SEDANS  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

METRIC (U.S. Customary)

Body Type And/Or  
 Engine Displacement

ALL

## Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2.8 (+/-) 1.0
		Camber (deg.)	0.8 (+/-) 0.8
		Toe-in outside track - mm (in.)	0.16 (+/-) 0.20
	Service reset*	Caster (deg.)	2.8 (+/-) 1.0
		Camber (deg.)	0.8 (+/-) 0.8
		Toe-in - mm(in.)	0.16 (+/-) 0.20
	Periodic M.V. in-spection	Caster (deg.)	2.8 (+/-) 1.0
		Camber (deg.)	0.8 (+/-) 0.8
		Toe-in - mm(in.)	0.16 (+/-) 0.20
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	Not Applicable
		Toe-in outside track - mm (in.)	"
	Service reset*	Camber (deg.)	"
		Toe-in - mm(in.)	"
	Periodic M.V. in-spection	Camber (deg.)	"
		Toe-in - mm(in.)	"

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

## o Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog Standard
	Trip odometer (std., opt., n.a.)	Standard - Digital
Head-up display	Std., opt., not avail.	Not Applicable
	Type - Secondary, Opto-electronic	"
	Speedometer	Digital
	Status/warn. indicators - Turn signals, high beam, low fuel, check gauges	"
	Brightness control	Day/night mode, adj.
EGR maintenance indicator		None
Charge indicator	Type	Telltale
	Warning device (light, audible)	Light
Temperature indicator	Type	Gage & Telltale
	Warning device	Light
Oil pressure indicator	Type	Telltale
	Warning device	Light
Fuel indicator	Type	Gauge
	Warning device	Light (Classic Only)
Windshield wiper	Type (standard)	Delay
	Type (optional)	None
	Blade length	22 in.
	Swept area sq cm (sq in)	7655.8 (1186.9)
Windshield washer	Type (standard)	Centrifugal Pump - Demand Wash
	Type (optional)	Not Applicable
	Fluid level indicator	Light (Classic Only)
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Applicable
Horn	Type	Delco
	Number used	2
Other		Low Coolant Indicator Telltale Light (Classic Only) Low Oil Level Indicator Telltale Light (Classic Only)

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description	5.0 LITER V8 (305 CID)
Engine Code	ELECTRONIC FUEL INJECTION RPO L03

### Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	Standard
	Voltage	12
	Amps at 0 deg F cold crnk	525
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	54
	Location	Engine Compartment, RH Side
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	36/100 Amps (1600/6500 Generator rpm)
	Ratio (alt. crank/rev.)	3.0
	Output at idle (rpm, park)	36 Amps (1600 Generator rpm)
	Optional (type & rating)	No
Regulator	Type	Temperature Compensated Per Curve C-6507

### Electrical - Starting System

Motor	Manufacturer	Delco Remy
	Curr.dr. -34 (-29) deg C(F)	360 Amps During Crank
	Power rating kw (hp)	1.4
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Front

### Electrical - Ignition System

Type	Electronic (std, opt.n.a.)	Electronic, Standard	
	Other (specify)	High Energy Ignition, (H.E.I.)	
Coil	Manufacturer	Delco Remy	
	Model	Separate	
	Current	Engine stopped-A	0 Amp
		Engine idling - A	1
Spark plug	Manufacturer	AC	
	Model	R45TS	
	Thread (mm)	14 x 1.25	
	Tightening torque Newton meters (lb. ft.)	9-20 (7-15)	
	Gap	0.89 (0.035)	
	Number per cylinder	1	
Distributor	Manufacturer	Delco Remy	
	Model	Remote Coil	

### Electrical - Suppression

Locations & type	Internal Alternator Capacitor, Non-Metallic High-Tension Ignition Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.
------------------	---

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description **5.7 LITER V8 (350 CID)**  
 Engine Code **ELECTRONIC FUEL INJECTION RPO L05**

### Electrical - Supply System

Battery	Manufacturer	Delco Remy
	Model, std., (opt.)	Standard
	Voltage	12
	Amps at 0 deg F cold crnk	525
	Minutes-reserve capacity	90
	Amps/hrs. - 20 hr. rate	54
	Location	Engine Compartment, RH Side
Alternator	Manufacturer	Delco Remy
	Rating (idle/max. rpm)	36/100 Amps (1600/6500 Generator rpm)
	Ratio (alt. crank/rev.)	3.0
	Output at idle (rpm, park)	36 Amps (1600 Generator rpm)
Optional (type & rating)	No	
Regulator	Type	Temperature Compensated Per Curve C-6507

### Electrical - Starting System

Motor	Manufacturer	Delco Remy
	Curr.dr. -34 (-29) deg C(F)	360 Amps During Crank
	Power rating kw (hp)	1.4
Motor drive	Engagement type	Positive Shift Solenoid
	Pinion engages from (front, rear)	Front

### Electrical - Ignition System

Type	Electronic (std, opt.n.a.)	Electronic, Standard	
	Other (specify)	High Energy Ignition. (H.E.I.)	
Coil	Manufacturer	Delco Remy	
	Model	Separate	
	Current	Engine stopped-A	0 Amp
		Engine idling - A	1
Spark plug	Manufacturer	AC	
	Model	R45TS	
	Thread (mm)	14 x 1.25	
	Tightening torque Newton meters (lb. ft.)	9-20 (7-15)	
	Gap	0.89 (0.035)	
	Number per cylinder	1	
Distributor	Manufacturer	Delco Remy	
	Model	Remote Coil	

### Electrical - Suppression

Locations & type	Internal Alternator Capacitor, Non-Metallic High-Tension Ignition Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compression Diode, With Radio Provisions; Hood Grounding Clip, Engine To Dash Panel Ground Strap, Fuse Block Capacitor And On "Heater Only" Blower Motors And Coax Capacitor.
------------------	---

# MVMA Specifications

Vehicle Line CAPRICE SEDAN

Model Year 1991 Issued 12-89 Revised(\*) 4-90

METRIC (U.S. Customary)

Body Type

ALL

## Body

Structure	All Welded Heavy-Gage Steel Body. Full Perimeter Frame.														
Bumper system front - rear	Frame Mounted Steel Beam On Delco Energy Absorbers Covered With Urethan Fascia. Performance 5 mph.														
Anti-corrosion treatment	<table border="0"> <tr> <td>2-Sided Galvanized</td> <td>B-SUBSEQUENT COATINGS</td> </tr> <tr> <td>A-METAL REQUIREMENTS</td> <td>1. Phosphate</td> </tr> <tr> <td>1. Quarter</td> <td>2. Cathodic Elpo</td> </tr> <tr> <td>2. Door Inner &amp; Outer</td> <td>3. Augmented Waxes</td> </tr> <tr> <td>3. Fender Inner &amp; Outer</td> <td></td> </tr> <tr> <td>4. Hood Inner &amp; Outer</td> <td></td> </tr> <tr> <td>5. Decklid Inner &amp; Outer</td> <td></td> </tr> </table>	2-Sided Galvanized	B-SUBSEQUENT COATINGS	A-METAL REQUIREMENTS	1. Phosphate	1. Quarter	2. Cathodic Elpo	2. Door Inner & Outer	3. Augmented Waxes	3. Fender Inner & Outer		4. Hood Inner & Outer		5. Decklid Inner & Outer	
2-Sided Galvanized	B-SUBSEQUENT COATINGS														
A-METAL REQUIREMENTS	1. Phosphate														
1. Quarter	2. Cathodic Elpo														
2. Door Inner & Outer	3. Augmented Waxes														
3. Fender Inner & Outer															
4. Hood Inner & Outer															
5. Decklid Inner & Outer															

## Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Base-Coat/Clear-Coat	
Hood	Material & mass	Steel, Hood Assembly With Grille, Brks, Insulator (26.5)
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Gas Spring
	Release control (int., ext.)	Internal
Trunk lid	Material & mass	Steel, (19.6)
	Type (counterbalance, other)	Torque Rod
	Internal release control (elec., mech., n.a.)	Optional. Electric
Hatch-back lid	Material & mass	Not Applicable
	Type (counterbalance, other)	"
	Internal release control (elec., mech., n.a.)	"
Tailgate	Material & mass	"
	Type (drop, lift, door)	"
	Internal release control (elec., mech., n.a.)	"
Vent window control (crank, friction, pivot, power)	Front	"
	Rear	"
Window regulator type (cable, tape, flex drive, etc.)	Front	Cross-Arm Regulator
	Rear	Cross-Arm Regulator
Seat cushion type (e.g., 60/40, bucket, bench wire, foam, etc.)	Front	Bench Std., Wire Suspension: 55 Driver, 45 Pass., Wire Suspension Available
	Rear	Bench Std., Wire/Foam Suspension
	3rd seat	Not Applicable
Seat back type (e.g., 60/40, bucket, bench, wire, foam, etc.)	Front	Bench Std., Wire Suspension: 55 Driver, 45 Pass., Wire Suspension, Armrest
	Rear	Bench Std., Wire/Foam Suspension: Armrest Version Avail - Construction Same
	3rd seat	Not Applicable

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Body Type

ALL

## Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap And Shoulder Belt	Lap Belt	Lap And Shoulder Belt
		Second seat	Lap And Shoulder Belt	Lap Belt	Lap And Shoulder Belt
	Standard/ optional	Third seat	Not Applicable	Not Applicable	Not Applicable
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	Supplemental Inflatable Restraint	Not Applicable	Not Applicable
		Second seat	Not Applicable	Not Applicable	Not Applicable
	Standard/ optional	Third seat	Not Applicable	Not Applicable	Not Applicable

Glass		SAE Ref No	
Windshield glass exposed surface area sq. cm. (sq. in.)	S1	7276.8 (1127.9)	
Side glass exposed surface area sq. cm. (sq. in.) - total 2-sides	S2	18124.5 (2809.3)	
Backlight glass exposed surface area sq. cm. (sq. in.)	S3	5919.4 (917.5)	
Total glass exposed surface area sq. cm. (sq. in.)	S4	31320.7 (4854.7)	
Windshield glass (type)		Curved - Laminated Plate	
Side glass (type)		Curved - Tempered Plate	
Backlight glass (type)		Curved - Tempered Plate	

## Headlamps

Description - sealed beam, halogen, replaceable bulb, etc.	Replacement Bulb
Shape	Contoured
Lo-beam type (2A1, 2B1, 2C1, etc.)	9004 Bulb
Quantity	2 Per Vehicle
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	Included In Lo-Beam Bulb 9004
Quantity	Not Applicable

## Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Separate Frame. Sedan: 2 Crossmembers
---	---------------------------------------

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

METRIC (U.S. Customary)

Body Type

ALL

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

Air conditioning (manual, auto, temp control)	Manual - Standard	
Clock (digital, analog)	Digital - In Radio	
Compass / thermometer	Compass, Mirror Mounted - Optional, Classic Only	
Console (floor, overhead)	Not Applicable	
Defroster, elec. backlight	Optional	
Electronic	Diagnostic monitor (integrated, individual)	Low Level Indicator Standard Classic Only (Washer, Coolant, Fuel, Oil)
	Instrument cluster (list instruments)	Speedo Fuel Temp
	Keyless entry	Optional, Classic Only
	Tripminder (avg. spd. fuel)	Not Applicable
	Voice alert (list items)	Not Applicable
	Other	
Fuel door lock (remote, key, electric)	Not Applicable	
Lamps	Auto head on/off delay, dimming	Optional, Classic Only
	Cornering	Standard, Classic Only
	Courtesy (map, reading)	Courtesy (Door) - Standard, Classic Only. Reading Lamps - Standard, Classic; Optional, Caprice
	Door lock, ignition	None
	Engine compartment	Standard, RH Side
	Fog	None
	Glove compartment	Standard
	Trunk	Standard
	Illuminated entry system (list lamps, activation)	None
	Other	Center High-mounted Stop Lamp
Mirrors	Ashtray (Front)	Standard
	Day / night (auto, man.)	Manual
	L.H. (remote, pwr., heated)	Remote - Standard, Power Or Power Heated - Optional
	R.H. (convex, rmt. pwr., htd)	Manual - Standard, Power Or Power Heated - Optional (Convex Mirror)
	Visor vanity (RH/LH illum.)	Non-illum. - LH & RH, Standard / Optional RH - Illum.
Navigation system (describe)	Not Applicable	
Prkg. brake-auto release (warn. light)	Base Light	



# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

ALL

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

Power equipment	Deck lid(release, pull down)		Release - Optional
	Door locks (manual, auto., describe system)		Manual - Standard Power - Optional (Power - Standard On Classic Only)
	Seats	2 - 4 - 6 way, etc.	6-Way RH & LH, Optional Classic; LH Only, Optional Caprice
		Reclining(R.H., L.H.)	Manual RH & LH On All Split Seats
		Memory (R.H., L.H., preset, recline)	None
		Support (lumbar, hip, thigh, etc.)	None
		Heated (R.H., L.H., other)	None
	Side windows		Power - Optional (Standard - Classic)
	Vent windows		None
	Rear windows		Not Applicable
Radio systems	Antenna (location, whip, w/shield, power)		Whip RH Front Fender Power - Optional
	Stan.		AM/FM Stereo Seek, Scan, Clock - ETR
	Opt.	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo Seek, Scan, Auto Reverse Cass., Clock ERS AM/FM Stereo Seek, Scan, Auto Reverse Cass., Clock ETR, Bose AM/FM Stereo Seek, Scan, Compact Disc, Clock ERS (Interim) AM/FM Stereo Seek, Scan, Compact Disc, Clock ETR, Bose (Interim)
	Speaker (number, location)		4 Speakers - 1 Each Front Door, 2 Rear Shelf
Roof: open air or fixed (flip-up, sliding, "T")		Not Applicable	
Speed control device		Cruise Control - Stepper Motor, Optional	
Speed warn. dev. (light, buzzer, etc.)		Not Applicable	
Tachometer (rpm)		"	
Telephone system (describe)		"	
Theft deterrent system		"	

### ○ Trailer Towing

Towing capable	Yes / No	Class I (Base); Class III w/V92 (Optional)
Engine/transmission/axle	Std / Opt	L03 (Standard); MD8, 700R4 Trans (Standard); 3.08 Axle (Optional)
Tow class (I, II, III)*	Std / Opt	III (Optional)
Max. gross trailer wgt. (lbs.)	Std / Opt	5000 (Optional)
Max. trailer tongue load (lbs.)	Std / Opt	600 w/Wright Distr. Hitch (Optional)
Towing package available	Yes / No	V92

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

# MVMA Specifications

Vehicle Line CAPRICE SEDAN

Model Year 1991 Issued 12-89 Revised(\*) 4-90

## 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

ALL

#### Width

##### SAE Ref. No.

	SAE Ref. No.	
Tread (front)	W101	1568 (61.8)
Tread (rear)	W102	1542 (60.7)
Vehicle width	W103	1956 (77.0)
Body width at Sp RP (front)	W117	1950 (76.8)
Vehicle width (front doors open)	W120	3536 (45 deg.) (139.3)
Vehicle width (rear doors open)	W121	3468 (60 deg.) (136.6)
Tumble-home (deg.)	W122	27
Outside mirror width	W410	2115 (83.3)

#### Length

	SAE Ref. No.	
Wheelbase	L101	2945 (115.9)
Vehicle length	L103	5439 (214.1)
Overhang (front)	L104	1059 (41.7)
Overhang (rear)	L105	1435 (56.5)
Upper structure length	L123	3261 (128.4)
Rear wheel C/L 'X' coordinate	L127	4475 (176.3)

#### Height \*\*

	SAE Ref. No.		
Passenger distribution (front/rear)	PD1,2,3	Not Available	**
Trunk/cargo load			**
Vehicle height	H101	1440 (56.7)	
Cowl point to ground	H114	975 (38.4)	
Deck point to ground	H138	1063 (41.9)	
Rocker panel-front to ground	H112	215 (8.5)	
Rocker panel-rear to ground	H111	232 (9.1)	
Windshield slope angle (deg.)	H122	60.5	
Backlight slope angle (deg.)	H121	65.5	

#### Ground Clearance \*\*

	SAE Ref. No.	
Front bumper to ground	H102	250 (9.8), EPA
Rear bumper to ground	H104	343 (13.5), EPA
Bumper to ground front at curb mass (wt.)	H103	283 (11.1), Curb
Bumper to ground rear at curb mass (wt.)	H105	360 (14.2), Curb
Angle of approach (deg.)	H106	14 EPA, 13.8 GVM
Angle of departure (deg.)	H107	14.6 EPA, 9.39 GVM
Ramp breakover angle (deg.)	H147	14.1 EPA, 9.9 GVM
Axle differential to ground (front/rear)	H153	192.5 (7.6)
Min. running ground clearance	H156	178.7 (7.0), Curb 157.0 (6.2), EPA
Location of min. run. grd. clear.		Rear Lower Trailing Arm Bracket

\*\* 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).

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

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

See Key Sheets for Definitions

Body Type

ALL

### Front Compartment

SAE Ref. No.

	SAE Ref. No.	
SgRP front, 'X' coordinate	L31	3078 (121.2)
Effective head room	H61	899.0 (35.3)
Max. eff. leg room (accelerator)	L34	1072.0 (42.2)
SgRP to heel point	H30	220.0 (8.7)
SgRP to heel point	L53	876.0 (34.5)
Back angle (deg.)	L40	26.5
Hip angle (deg.)	L42	87
Knee angle (deg.)	L44	127
Foot angle (deg.)	L46	87
Design H-point front travel	L17	163.0 (6.4)
Normal driving & riding seat track trvl.	L23	143.0 (5.6)
Shoulder room	W3	1610.0 (63.4)
Hip room	W5	1448.0 (57.0)
*** Upper body opening to ground	H50	1502 (59.2)
Steering wheel maximum diameter*	W9	387.0 (15.2)
Steering wheel angle (deg.)	H18	19
Accel. heel pt. to steer. whl. cntr	L11	554.5 (21.8)
Accel. heel pt. to steer. whl. cntr	H17	629.0 (24.8)
Undepressed floor covering thickness	H67	8.5 (.33)

Front Compartment Int. Dim. Are Measured With The Seating Ref. Pt.  
 (SgRP) 20 mm (1 Seat Adjuster Notch) Forward of Rearmost Seat Position.

### Rear Compartment

SgRP point couple distance	L50	882.0 (34.7)
Effective head room	H63	969.0 (38.1)
Min. effective leg room	L51	891.0 (39.0)
SgRP (second to heel)	H31	292.0 (11.5)
Knee clearance	L48	68 (2.7)
Shoulder room	W4	1610.0 (63.4)
Hip room	W6	1445.0 (56.9)
*** Upper body opening to ground	H51	1512 (59.6)
Back angle (deg.)	L41	25
Hip angle (deg.)	L43	93
Knee angle (deg.)	L45	110
Foot angle (deg.)	L47	127.5
Depressed floor covering thickness	H73	18.0

### Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	20.4
*** Liftover height	H19E	768 (30.2)

### Interior Volumes (EPA Classification)

Vehicle class		Large
Interior volume index (cu. ft.)**		134.6 = Pass. Area 114.2 (Fr. 60.2 + Rr. 54.0) + Trunk Area 20.4
Trunk / cargo index (cu. ft.)		20.4

\* See page 14.

\*\* Includes passenger and trunk / cargo index - see definition page 32.

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

All Linear Dimensions Are In Millimeters (Inches).

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*)           

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

See Key Sheets for Definitions

Body Type

ALL

### Station Wagon - Third Seat

SAE Ref. No. (NOT APPLICABLE)

	SAE Ref. No.	(NOT APPLICABLE)
Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip Room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Back angle (deg.)	L88	
Hip angle (deg.)	L89	
Knee angle (deg.)	L90	
Foot angle (deg.)	L91	

### Station Wagon - Cargo Space

(NOT APPLICABLE)

	SAE Ref. No.	(NOT APPLICABLE)
Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
* Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index cu. m. (cu. ft.)	V2	
Hidden cargo vol. index cu.m. (cu. ft.)	V4	
Cargo volume index-rear of 2-seat	V10	

### Hatchback - Cargo Space

(NOT APPLICABLE)

	SAE Ref. No.	(NOT APPLICABLE)
Cargo length at front seatback height	L206	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index cu. m. (cu. ft.)	V3	
Hidden cargo vol. index cu.m. (cu. ft.)	V4	
Cargo volume index-rear of 2-seat	V11	

\* EPA Loaded Vehicle Weight, Loading Conditions

All Linear Dimensions Are In Millimeters (Inches).

# MVMA Specifications

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

## METRIC (U.S. Customary)

Body Type

ALL

### Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location
Front	X - Fiducial mark to vertical zero grid line - front measured horizontally, from the zero grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.
	Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.
	Z - Fiducial mark to horizontal zero grid line - front, measured vertically from zero grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.
Rear	X - Fiducial mark to vertical zero grid line - rear, measured horizontally from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).
	X - Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal).
	Z - Fiducial mark to horizontal zero grid line - rear, measured vertically from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal).
Fiducial Mark Number	
Front	W21* 564 (22.2)
	L54* 2754 (108.4)
	H81* 509 (20.0)
	H161* 348 (13.7), Curb
	** H163* 325 (12.8)
Rear	W22* 254 (10.0)
	L55* 5533 (217.8)
	H82* 586 (23.1)
	H162* 449 (17.7), Curb
	** H164* 431 (17.0)

\* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

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

All Linear Dimensions Are In Millimeters (Inches).

o MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

Code	Model	VEHICLE MASS (weight)					% PASS MASS DISTRIBUTION			
		CURB MASS, kg. (lb.)*			SHIPPING MASS kg (lb)***	ETWC** Code	PASS IN FRONT		PASS IN REAR	
		Front	Rear	Total			Front	Rear	Front	Rear
1BL19	Caprice	1006	766	1772	1716	4250	96.6	107.4	35.4	168.6
		(2218)	(1689)	(3907)	(3783)					
1BN19	Caprice Classic	1012	780	1792	1736	4250	96.6	107.4	35.4	168.6
		(2231)	(1720)	(3951)	(3827)					
1BL19 & 9C1	Caprice W/Police Pkg.	1030	792	1822	1766	4250	96.6	107.4	35.4	168.6
		(2271)	(1746)	(4017)	(3893)					

\* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.  
 \*\* ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications. Refer to ETWC code legend below for test weight class.

ETWC LEGEND

A = 1000	I = 2000	Q = 3000	4000	Y = 4000
B = 1125	J = 2125	R = 3125	4250	Z = 4250
C = 1250	K = 2250	S = 3250	4500	AA = 4500
D = 1375	L = 2375	T = 3375	4750	BB = 4750
E = 1500	M = 2500	U = 3500	5000	CC = 5000
F = 1625	N = 2625	V = 3625	5250	DD = 5250
G = 1750	ON = 2750	W = 3750	5500	EE = 5500
H = 1875	P = 2875	X = 3875	5750	FF = 5750

\*\*\* Shipping Mass (weight) = Curb Weight Less:  
 56 (124)

20.2 gal. \* 2.776 = kg. \* 2.2046 = lbs.

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
AA7	Window - Power Operated	2.6 (5.7)	2.8 (6.2)	5.4 (11.9)	1BA00, Standard on 1BL19/Z09
AG1	Seat Adj. - 6-Way Power Driver Only	1.8 (4.0)	1.6 (3.5)	3.4 (7.5)	1BA00
AG2	Seat Adj. - 6-Way Power	1.8 (4.0)	1.6 (3.5)	3.4 (7.5)	1BL19/Z09
AM6	Seat Front Split 3-Pass.	5.0 (11.0)	4.8 (10.6)	9.8 (21.6)	1BA00, Standard on 1BL19/Z09
AN4	Child Restraint Provisions	0 (0)	.4 (0.9)	.4 (0.9)	1BA00 - Canada Only
AU0	Lock Control - Remote Entry	0 (0)	.2 (0.4)	.2 (0.4)	1BL19/Z09
AU3	Lock-Side Door, Electric	1.2 (2.7)	2.0 (4.4)	3.2 (7.1)	1BA00, Standard on 1BL19/Z09
A90	Lock - Rear Compartment Lid Remote Control Electric	-.2 (-0.4)	.8 (1.8)	.6 (1.3)	1BL19 & 1BL19/Z09
B37	Floor Mats - Front & Back	2.0 (4.4)	.8 (1.8)	2.8 (6.2)	1BA00
CD2	Indicator - WSWA Jar Fluid (Included in RPO UW1)	.2 (0.4)	0 (0)	.2 (0.4)	Standard 1BL19/Z09
C49	Defogger - Rear Window, Electric	.2 (0.4)	.2 (0.4)	.4 (0.9)	1BA00
C71	Lamp - Interior Front Door	.2 (0.4)	0 (0)	.2 (0.4)	Standard 1BL19/Z09

\* Also see Engine - General Section for dressed engine mass (weight).  
 1BL19/Z09 = Caprice Classic

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAPRICE SEDAN

Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
DC4	Mirror - I/S Rear With Reading Lamps	.2 (0.4)	0 (0)	.2 (0.4)	1BA00, Standard On 1BL19/Z09
DD1	Mirror - I/S, R/V, Dual Reading With Compass	.2 (0.4)	0 (0)	.2 (0.4)	1BL19/Z09
DG7	Mirror - O/S Twin Remote, Electric	.2 (0.4)	.2 (0.4)	.4 (0.9)	1BA00
DL8	Mirror - O/S Heated - Twin Remote (Requires C49)	.4 (0.9)	.2 (0.4)	.6 (1.3)	1BA00
D64	Mirror - Visor (Illum.), RH	.2 (0.4)	0 (0)	.2 (0.4)	1BA00
FE2	Suspension System - Ride, Handling (Requires V92)	0 (0)	8.4 (18.5)	8.4 (18.5)	1BL19 & 1BL19/Z09
F41	Includes FE2 Suspension	3.8 (8.4)	8.6 (19.0)	12.4 (27.3)	
GU4	Axle - Rear (3.08 Ratio) (Requires G80 Or V92)	0 (0)	6.6 (14.6)	6.6 (14.6)	1BL19 & 1BL19/Z09
GU6	Axle - Rear (3.42 Ratio)	0 (0)	12.0 (26.5)	12.0 (26.5)	1BL19 - Police Only
G80	Axle - Rear (Limited Slip)	0 (0)	3.6 (7.9)	3.6 (7.9)	1BA00
G80	Axle - Rear (Limited Slip)	0 (0)	2.8 (6.2)	2.8 (6.2)	1BL19 & GMB - Police Only
JA2	Brake System, Heavy Duty	0 (0)	11.0 (24.3)	11.0 (24.3)	1BL19 - Police/Taxi Only

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

1BL19/Z09 = Caprice Classic



# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
KC4	Engine Oil Cooler (Requires V92)	.2 (0.4)	0 (0)	.2 (0.4)	1BA00
K05	Heater - Engine Block	.4 (0.9)	0 (0)	.4 (0.9)	1BA00 - Canada Only
K09	Generator 120 Amp	.4 (0.9)	0 (0)	.4 (0.9)	1BL19 - Police/Taxi Only
K34	Cruise Control - Electronic	1.4 (3.1)	.2 (0.4)	1.6 (3.5)	1BA00
L05	Engine - Gas, V8, 5.7L, EFI	6.2 (13.7)	2.0 (4.4)	8.2 (18.1)	1BL19 - Police Only
NM8	Emission System - Leaded Fuel	-6.6 (-14.6)	-3.4 (-7.5)	-10.0 (-22.1)	1BL19 - Govt. or Exp.
N33	Steering Column - Tilt Type	.8 (1.8)	.2 (0.4)	1.0 (2.2)	1BA00
N81	Full-Size Spare Tire	-1.6 (-3.4)	8.4 (18.6)	6.8 (15.0)	1BA00
PD4	Wheel - 15 x 7, Light Metal	-3.0 (-6.6)	-3.0 (-6.6)	-6.0 (-13.2)	Standard, 1BL19/Z09 Only
P17	Spare Tire Cover	0 (0)	.2 (0.4)	.2 (0.4)	1BL19
QNP	Tire - P225/70R15/N	5.0 (11.0)	5.0 (11.0)	10.0 (22.0)	1BL19 & 1BL19/Z09
T82	Twilight Sentinel	.4 (0.9)	0 (0)	.4 (0.9)	1BL19/Z09

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

1BL19/Z09 = Caprice Classic

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
UR5	Indicator - Low Engine Oil (Included in RPO UW1)	.2 (0.4)	0 (0)	.2 (0.4)	Standard on 1BL19/Z09
UM6	Radio - AM/FM Stereo Cassette - ERS	0.6 (1.3)	0.2 (0.4)	0.8 (1.8)	1BA00
UU8	Radio - AM/FM Stereo Cassette, Bose	1.0 (2.2)	1.4 (3.1)	2.4 (5.3)	1BA00
UQ4	Speaker System - Bose	1.2 (2.6)	2.2 (4.8)	3.4 (7.4)	1BA00
U1B	Radio - AM/FM Stereo, Compact Disc	2.0 (4.4)	1.8 (4.0)	3.8 (8.4)	1BA00
UQ5	Speaker System - 4, Dual Front Door Mtd. Dual Extended Range, Qtr. Mtd.	.2 (0.4)	.8 (1.8)	1.0 (2.2)	
U1B	Radio - AM/FM Stereo, Compact Disc, Bose Speakers	.8 (1.8)	.2 (0.4)	1.0 (2.2)	
U1C	Radio - AM/FM Stereo, Compact Disc, ERS	2.0 (4.4)	1.8 (4.0)	3.8 (8.4)	1BA00
U38	Indicator - Low Coolant (Included in RPO UW1)	.2 (0.4)	0 (0)	.2 (0.4)	Standard On 1BL19/Z09
U41	Indicator - Low Fuel (Included in RPO UW1)	.2 (0.4)	0 (0)	.2 (0.4)	Standard On 1BL19/Z09
U75	Antenna - Power	.8 (1.8)	.2 (0.4)	1.0 (2.2)	1BA00
VK3	License Plate - Front Mounting Package	1.0 (2.2)	-2 (-0.4)	.8 (1.8)	1BA00

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

1BL19/Z09 = Caprice Classic

# MVMA Specifications

METRIC (U.S. Customary)

Vehicle Line CAPRICE SEDAN  
 Model Year 1991 Issued 12-89 Revised(\*) 4-90

Code		Equipment		Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
				MASS, kg. (lb.)			
				Front	Rear	Total	
V08	Radiator - Heavy Duty (Req. W/V92)	2.4 (5.3)	-0.4 (-0.9)	2.0 (4.4)		1BA00	
9C1	Police Car	12.0 (26.5)	7.4 (16.3)	19.4 (42.8)		1BL19	
9C6	Taxi Cab	8.2 (18.1)	11.2 (24.7)	19.4 (42.8)		1BL19	

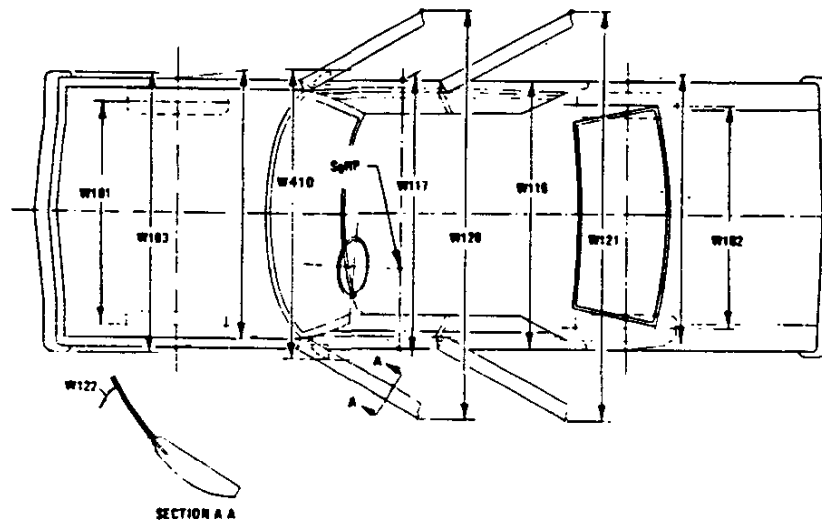
\* Also see Engine - General Section for dressed engine mass (weight).  
 1BL19/Z09 - Caprice Classic

# MVMA Specifications

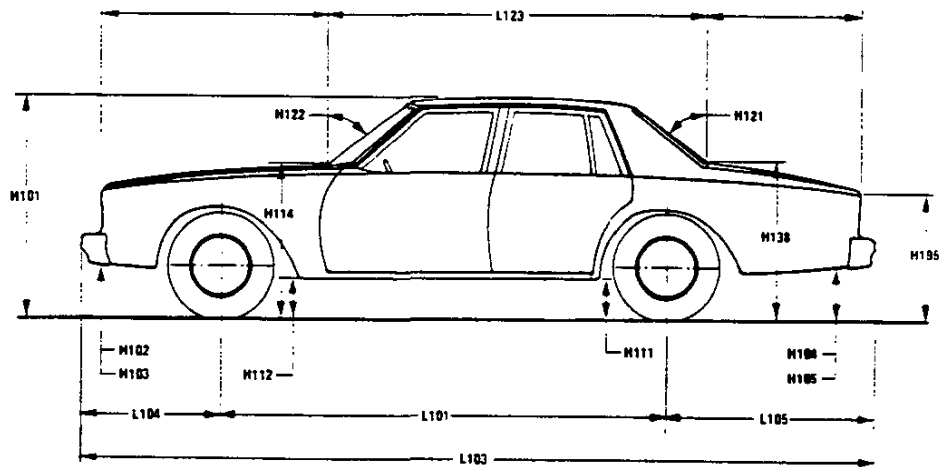
METRIC (U.S. Customary)

## Exterior Vehicle And Body Dimensions - Key Sheet

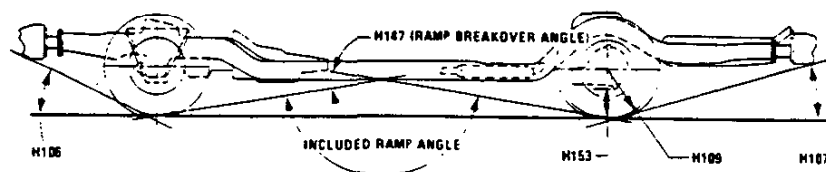
### Exterior Width



### Exterior Length & Height



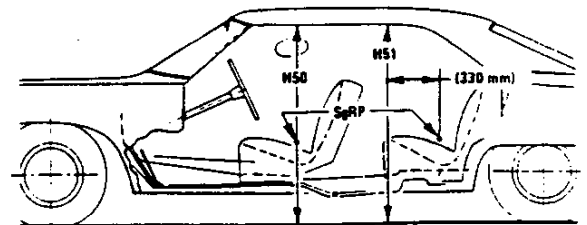
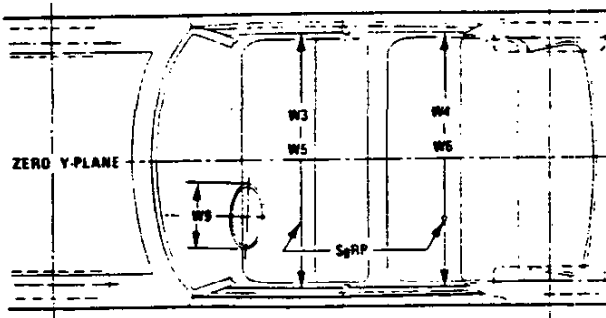
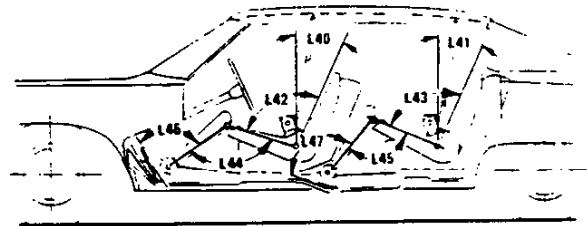
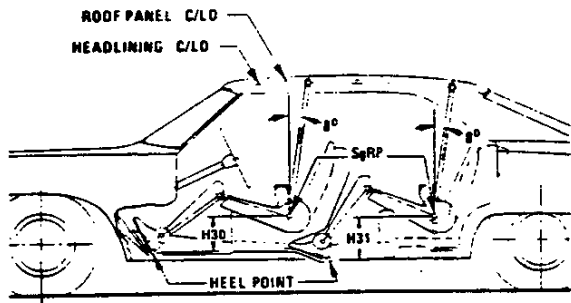
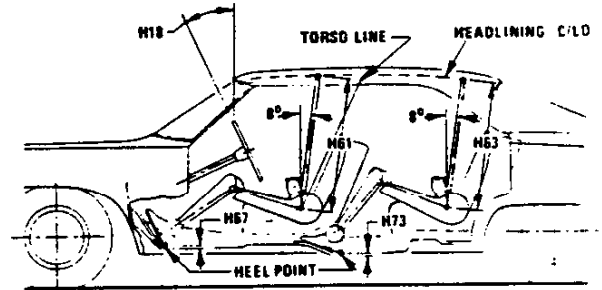
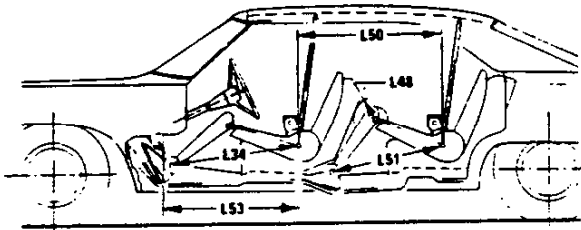
### Exterior Ground Clearance



# MVMA Specifications Form

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet

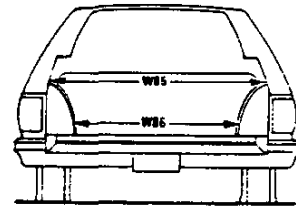
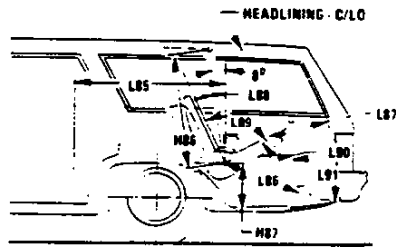


# MVMA Specifications Form

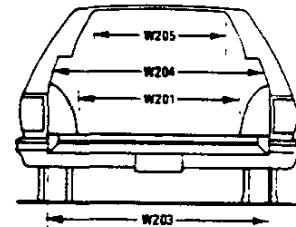
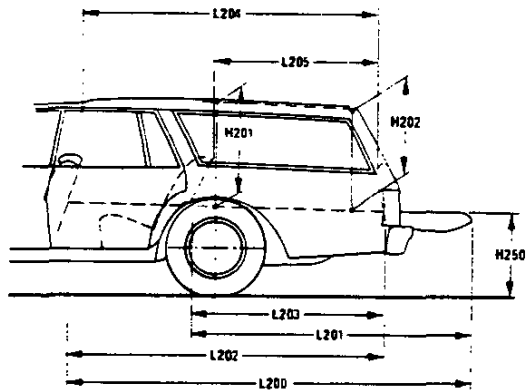
## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet

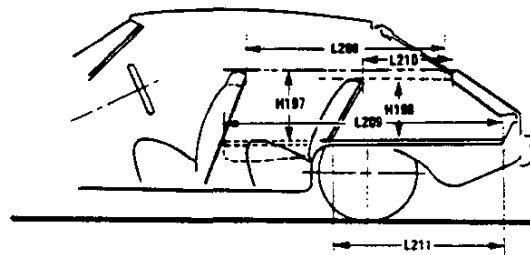
#### Third Seat



#### Cargo Space



#### Station Wagon



#### Hatchback

# MVMA Specifications

## 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.
- W102 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.
- W103 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.
- W117 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.
- W120 VEHICLE WIDTH – FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH – REAR DOORS OPEN. The dimension 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.
- W122 TUMBLE – HOME. STRAIGHT SIDE GLASS. The angle 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.
- W410 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

- L101 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.
- L103 VEHICLE LENGTH. The maximum dimension measured 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.
- L104 OVERHAND – FRONT. The dimension measured longitudinally 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.
- L105 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.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.

#### Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL – REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL – FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD – TIRE RADIUS – REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

#### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H102.
- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

# MVMA Specifications

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

#### Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

#### Fiducial Mark Dimensions

- Fiducial Mark – Number 1**
- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.
- Fiducial Mark – Number 2**
- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

#### Front Compartment Dimensions

- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT – FRONT TRAVEL. The dimension measured horizontally between the design H-point – front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).
- L31 SgRP – FRONT. "X" COORDINATED.
- L34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP – front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L-40 BACK ANGLE – FRONT. The angle measured between a vertical line through the SgRP – front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L-42 HIP ANGLE – FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE – FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE – FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP – FRONT TO HEEL. The dimension measured horizontally from the SgRP – front to the accelerator heel point.
- W3 SHOULDER ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front at height between the belt line and 254 mm (10.0 in.) above the SgRP – front, excluding the door assist strap and attaching parts.

- W5 HIP ROOM – FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP – front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP – front and 76 mm (3.0 in.) fore and aft of the SgRP – front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H7 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP – front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP – FRONT TO HEEL. The dimension measured vertically from the SgRP – front to the accelerator heel point.
- H50 UPPER BODY OPENING TO GROUND – FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP – front "X" plane.
- H61 EFFECTIVE HEADROOM – FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP – front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS – UNDEPRESSED – FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

#### Rear Compartment Dimensions

- L-41 BACK ANGLE – SECOND. The angle measured between a vertical line through the SgRP – second and the torso line.
- L43 HIP ANGLE – SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE – SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE – SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE – SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE – SECOND. The dimension measured horizontally from the driver SgRP – front to the SgRP – second.
- L51 MINIMUM EFFECTIVE LEG ROOM – SECOND. The dimension measured along a line from the ankle pivot center to the SgRP – second plus 254 mm (10.0 in.).
- W4 SHOULDER ROOM – SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP – second at height between 254-406 mm (10.0-16.0 in.) above the SgRP – second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM – SECOND. Measured in the same manner as W5.
- H31 SgRP – SECOND TO HEEL. The dimension measured vertically from the SgRP – second to the two dimensional device heel point on the depressed floor covering.
- H51 UPPER BODY OPENING TO GROUND – SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP – second.
- H63 EFFECTIVE HEAD ROOM – SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING – DEPRESSED – SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.



# MVMA Specifications

## 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 Interior Volume Index is an estimate of the size of the passenger compartment.

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 – 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 KNEE CLEARANCE – 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 L47.
- 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 – 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 CARGO LENGTH – CLOSED – FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH – CLOSED – SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT – FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT – SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH – WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.
- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON

Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

# MVMA Specifications

## METRIC (U.S. Customary)

### Interior Vehicle And Body Dimensions – Key Sheet Dimensions Definitions

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.  
Measured in inches:

$$\frac{L506 \times W505 \times H503}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V8 HIDDEN LUGGAGE CAPACITY – REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.  
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

#### Hatchback – Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electronically adjusted seats, see the manufacturer's specifications for Design "H" Point).

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.

L209 CARGO LENGTH AT FLOOR – FRONT – HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT – HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.

L211 CARGO LENGTH AT FLOOR – SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seatback to the undepressed floor covering.

V3 HATCHBACK.

Measured in inches:

$$\frac{\frac{L208 - L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{\frac{L208 - L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

V4 HIDDEN LUGGAGE CAPACITY – REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:  
Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$

Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

# MVMA Specifications

## METRIC (U.S. Customary)

### Index

Subject	Page No.	Subject	Page No.
Alternator	16	Passenger Capacity	1
Axle Drive, Front, Rear, All Four	2, 9, 10	Passenger Mass Distribution	25
Axle Shafts	10	Pistons	3
Battery	16	Power Brakes	12
Body and Miscellaneous Information	17	Power, Engine	2
Brakes - Parking Service	12, 13	Power Steering	14
Camber	15	Power Teams	2
Camshaft	3	Propeller Shaft	10
Capacities		Pumps - Fuel	6
Cooling System	5	Water	5
Fuel Tank	6	Radiator - Cap, Hoses, Core	5
Lubricants		Ratios - Axle, Transaxle	2, 9, 10
Engine Crankcase	4	Compression	2
Transmission / Transaxle	8, 9	Steering	14
Rear Axle	10	Transmission / Transaxle	2, 8, 9
Carburetor	2, 6	Rear Axle	2, 10
Caster	15	Regulator - Alternator	16
Clutch - Pedal Operated	8	Restraint System	18
Coil, Ignition	16	Rims	13
Connecting Rods	4	Rods - Connecting	4
Convenience Equipment	19-20	Scrub Radius	14
Cooling System	5	Seats	17
Crankshaft	4	Shock Absorbers, Front & Rear	11
Cylinders and Cylinder Head	3	Spark Plugs	16
Diesel Information	4	Speedometer	15
Dimension Definitions		Springs - Front & Rear Suspension	11
Key Sheet - Exterior	27, 30, 31	Stabilizer (Sway Bar) - Front & Rear	11
Key Sheet - Interior	28, 29, 31, 32, 33	Starting System	16
Electrical System	15, 16	Steering	14
Emission Controls	7	Suppression - Ignition, Radio	16
Engine - General		Suspension - Front & Rear	11
Bore, Stroke, Type	3	Tail Pipe	7
Compression Ratio	2	Theft Protection	20
Displacement	2, 3	Thermostat, Cooling	5
Firing Order, Cylinder Numbering	3	Tires	13
General Information, Power & Torque	2	Toe-in	15
Intake System	4	Torque Converter	9
Power Teams	2	Torque - Engine	2, 8, 9
Exhaust System	7	Trailer Towing	20
Equipment Availability, Convenience	19	Transaxle	9
Fan, Cooling	5	Transmission - Types	2, 8, 9
Filters - Engine Oil, Fuel System	4	Transmission - Automatic	2, 9
Four Wheel Drive	10	Transmission - Manual	2, 6
Frame	18	Transmission - Ratios	2, 8, 9
Front Suspension	11	Tread	21
Front Wheel Drive Unit	10	Trunk Cargo Load	1
Fuel Economy, EPA	1	Trunk Luggage Capacity	22
Fuel Injection	6	Turning Diameter	2, 12
Fuel System	6	Unitized Construction	10
Fuel Tank	6	Universal Joints, Propeller Shaft	10
Glass	18	Valve System	11
Headlamps	18	Vehicle Dimensions	
Headroom - Body	22, 23	Width	21
Heights	21	Length	21
Horns	15	Height	21
Horsepower - Brake	2	Ground Clearance	21
Ignition System	16	Front Compartment	22
Inflation - Tires	13	Rear Compartment	22
Interior Volumes	22	Luggage Compartment	21
Instruments	15	Station Wagon - Third Seat	21
Legroom	22, 23	Station Wagon - Cargo Space	21
Lengths	21	Hatchback - Cargo Space	21
Leveling, Suspension	11	Fiducial Marks	21
Lifters, Valve	4	Voltage Regulator	16
Linings - Clutch, Brake	8, 12	Water Pump	5
Lubrication - Engine Transmission / Transaxle	4, 8, 9	Weights	25, 26
Luggage Compartment	22	Wheel Alignment	15
Models	1	Wheelbase	10
Motor Starting	16	Wheels & Tires	13
Muffler	7	Wheel Spindle	10
Origin	1	Widths	10
		Windshield	10
		Windshield Wiper and Washer	10

# MVMA Specifications

METRIC (U.S. Customary)

SUPPLEMENTAL PAGE

Vehicle Line \_\_\_\_\_  
Model Year \_\_\_\_\_ Issued \_\_\_\_\_ Revised (\*) \_\_\_\_\_

---

