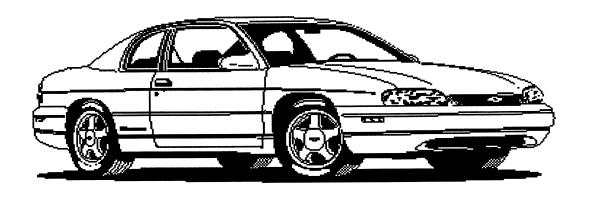
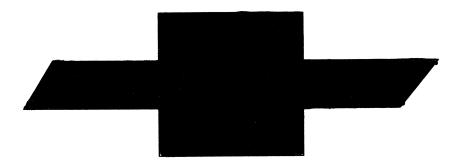
# 1998 MONTE CARLO



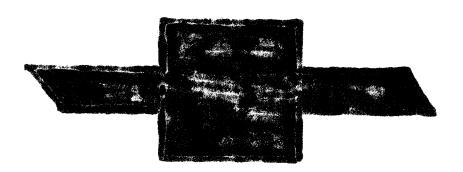
# **RESTORATION PACKET**

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# 1998



# MONTE CARLO



#### 1998 MONTE CARLO HIGHLIGHTS

#### **NEW FOR 1998**

- NEW ALUMINUM MACHINED FACED WHEEL STANDARD ON Z34 MODEL.
  - NEW STANDARD "L36 3800 SFI V-6" ENGINE REPLACES STANDARD LQ1 3.4 ENGINE ON Z34.
- ALL MONTE CARLO AXLE RATIO'S REVISED TO 3.29.

#### **EXTERIOR**

• CARRYOVER

#### **INTERIOR**

• NEW INTERIOR COLOR MED. DARK PEWTER (MERCHANDISED AS MED. GRAY) AVAILABLE IN CLOTH ONLY.

#### PREFERRED EQUIPMENT GROUPS (PEGS)

• SOME PREFERRED EQUIPMENT GROUPS RECONFIGURED TO ADD VALUE.

#### **COLORS**

- MED. REGAL BLUE (MET.) REPLACES MED. BLUE ADRIATIC (MET.)
- NAVY BLUE (MET.) REPLACES LIGHT BLUE ADRIATIC (MET.)
- LT. DRIFTWOOD (MET.) REPLACES GRANITE (MET.)
- LT. PEWTER (MET.) REPLACES MEDIUM LICHEN GREEN (MET.)

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#### **MONTE CARLO**

#### STANDARD EQUIPMENT SUMMARY

|                   |                                                      | 1WW27 | 1WX27 |
|-------------------|------------------------------------------------------|-------|-------|
| 0114 0010         |                                                      |       |       |
| <u>CHASSIS</u>    | 0.0014/0400 0511/0 511014/5                          | c     |       |
| AXLES:            | 3.29 W/3100 SFI V6 ENGINE                            | S     | <br>S |
|                   | 3.29 W/3800 SFI V6 ENGINE                            |       | 3     |
| BRAKES:           | 4-WHEEL ANTI-LOCK FRONT DISC, REAR DRUM              | S     | s     |
|                   | 4-WHEEL ANTI-LOCK DISC FRONT AND REAR                | s     |       |
| ENGINE:           | 3100 SFI V6                                          | _     | s     |
|                   | 3800 SFI V6                                          | -     | S     |
| FUEL TANK:        | 16.6 GALLON CAPACITY                                 | S     | _     |
| STEERING:         | POWER                                                | S     | S     |
|                   | TILT-WHEEL                                           | S     | S     |
| TRANSMISSION:     | 4-SPEED AUTOMATIC                                    | S     | S     |
|                   |                                                      |       |       |
| INTERIOR          |                                                      |       |       |
| AIR BAGS:         | DRIVER AND FRONT PASSENGER                           | S     | S     |
| AIR CONDITIONING: |                                                      | S     | S     |
| CARGO NET:        | LUGGAGE AREA                                         |       | S     |
| FLOOR MATS:       | FRONT & REAR CARPETED                                | S     | S     |
| GAGES:            | TACHOMETER                                           | S     | S     |
| GLASS:            | TINTED/SOLAR-RAY                                     | S     | S     |
| LIGHTING:         | AUXILIARY GLOVE BOX, TRUNK, IP MOUNTED ASHTRAY,      |       |       |
|                   | DOME LAMP, DUAL READING LAMPS                        | S     | S     |
|                   | INTERIOR, SUSTAINED ILLUMINATION                     | s     | S     |
| LOCKS:            | POWER DOOR                                           | S     | S     |
|                   | REMOTE KEYLESS ENTRY W/ILLUMINATION                  | _     | S     |
|                   | PASS KEY II THEFT DETERRENT SYSTEM                   | S     | S     |
| MIRRORS:          | VISOR, LH AND ILLUMINATED RH                         | S     | s     |
| PASS KEY II:      | THEFT DETERRENT SYSTEM                               | S     | S     |
| RADIO:            | ELECTRONICALLY TUNED AM/FM STEREO RADIO W/SEEK-SCAN, |       |       |
|                   | STEREO CASSETTE TAPE, DIGITAL CLOCK, AUTOMATIC TONE  |       |       |
|                   | CONTROL, THEFT LOCK AND SPEED COMPENSATED            |       |       |
|                   | VOLUME (INCLS PREMIUM FRONT AND REAR COAXIAL         |       |       |
|                   | SPEAKERS)                                            | S     | S     |
| RADIO CONTROLS:   | STEERING WHEEL (INCLS LEATHER WRAPPED STEERING WHL)  |       | s     |
| SCOTCHGARD:       | FABRIC PROTECTOR INCLUDES SEATS, DOOR TRIM           |       |       |
|                   | AND FLOOR COVERING                                   | S     | s     |

#### **MONTE CARLO**

#### STANDARD EQUIPMENT SUMMARY

|                 |                                                              | <u>1WW27</u> | <u>1WX27</u> |
|-----------------|--------------------------------------------------------------|--------------|--------------|
| INTERIOR contin | ued                                                          |              |              |
| SEATS:          | CUSTOM CLOTH 60/40 SEAT W/CENTER STORAGE ARMREST             |              |              |
|                 | WITH CUPHOLDER AND 4-WAY MANUAL DRIVER SEAT                  |              |              |
|                 | ADJUSTER AND SPLIT FOLDING REAR SEAT                         | S            |              |
|                 | CUSTOM CLOTH BUCKET WITH CONSOLE, 4-WAY MANUAL               |              |              |
|                 | DRIVER SEAT ADJUSTER AND SPLIT FOLDING REAR SEAT             |              | s            |
| SPEED CONTROL:  | ELECTRONIC, W/RESUME SPEED                                   |              | S            |
| TEMPERATURE     |                                                              |              |              |
| CONTROLS:       | DRIVER AND PASSENGER SIDE                                    |              | s            |
| TRUNK OPENER:   | POWER                                                        |              | s            |
| WARNING LIGHTS: | ENGINE OIL WEAR INDICATOR, LOW COOLANT LEVEL, LOW ENGINE OIL | s            | S            |
| WINDOWS:        | POWER                                                        | s            | S            |
|                 |                                                              |              |              |
|                 |                                                              |              |              |
| EXTERIOR        |                                                              |              |              |
| LIGHTS:         | AUTOMATIC DAYTIME RUNNING                                    | S            | S            |
| MIRRORS:        | DUAL BODY COLOR REMOTE, ELECTRIC                             | S            | S            |
| MOLDINGS:       | BODYSIDE, COLOR-KEYED                                        | s            | S            |
| PAINT:          | BASE COAT/CLEAR COAT                                         | S            | S            |
| TIRES:          | P205/70R-15 BLACKWALL TOURING                                | S            | -            |
|                 | P225/60R-16 BLACKWALL PERFORMANCE                            |              | S            |
| WHEEL COVER:    | 15" DELUXE BOLT-ON FULL (SILVER)                             | s            |              |
| WHEELS:         | 16" MACHINE-FACED ALUMINUM                                   |              | s            |
| WIPERS:         | VARIABLE INTERMITTENT                                        | s            | S            |

**REVISED: 11-3-97** 

#### **MONTE CARLO LS COUPE**

| 18,345.00 | Model 1WW27 MONTE CARLO LS COUPE               |     |     |  |  |  |
|-----------|------------------------------------------------|-----|-----|--|--|--|
|           | *Includes Destination & Handling Charges       |     |     |  |  |  |
|           | MUST ORDER ONE GROUP NO DELETIONS ALLOWED      | 1SG | 1SH |  |  |  |
| N.C.      | Base Preferred Equipment Group X               |     |     |  |  |  |
|           | (Refer Standard Equipment Summary Page)        |     |     |  |  |  |
| 635.00    | Preferred Equipment Group 1                    |     |     |  |  |  |
|           | Cargo Retaining Net, Luggage Area              |     | X   |  |  |  |
|           | Power Trunk Opener                             |     | X   |  |  |  |
|           | Temperature Control: Driver and Passenger Side |     | X   |  |  |  |
|           | Speed Control: Electronic, w/Resume Speed      |     | Χ   |  |  |  |
|           | Keyless Entry: Remote                          |     | X   |  |  |  |

#### **ADDITIONAL OPTIONS**

|        |              | ACKNOWLEDGMENTS:                                                                    |
|--------|--------------|-------------------------------------------------------------------------------------|
| N.C.   | R8S          | Multiple Order Numbers                                                              |
| 2.00   | R8T          | Preliminary Invoice (Refer Vehicle Price Schedule)                                  |
| N.C.   | VK3          | BRACKET: License Plate, Front                                                       |
|        |              | DEFOGGER: (MUST SPECIFY)                                                            |
| 170.00 | C49          | Rear Window: Electric                                                               |
| N.C.   | R9W          | Rear Window Defogger Not Desired                                                    |
|        |              | EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)                 |
| N.C.   | FE9          | Federal Emission Requirements                                                       |
| 170.00 | NG1          | New York, Massachusetts or Connecticut Emission Requirements                        |
| 170.00 | YF5          | California Emission Requirements                                                    |
| N.C.   | NB8          | CA, NY, MA or CT State Emission Override (Regs FE9 Emissions)                       |
| N.C.   | NC7          | Federal Emission Override (Reqs YF5 or NG1 Emissions)                               |
| 20.00  | K05          | HEATER: Engine Block                                                                |
|        |              | RADIO EQUIPMENT:                                                                    |
| 93.00  | UN0          | Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone  |
|        |              | Control, Compact Disc Player, Theft Lock & Speed Compensated Volume (Incls Premium  |
|        |              | Front & Rear Coaxial Speakers)                                                      |
| 171.00 | UK3          | Radio Controls, Steering Wheel (Incls Leather Wrapped Steering Wheel) (Reqs 1SH)    |
|        |              | SEAT TYPE: (MUST SPECIFY)                                                           |
| N.C.   | A <b>M</b> 6 | Split (Base)                                                                        |
| N.C.   | AR9          | Bucket (Incls Console)                                                              |
| 305.00 | WG1          | SEATS, ADDITIONAL: Power (Driver's Side Only)                                       |
| 225.00 | K34          | SPEED CONTROL: Electronic w/Resume Speed (Incl w/1SH)                               |
| 175.00 | D81          | SPOILER: Rear Deck                                                                  |
| 700.00 | CF5          | SUNROOF: Electric, Sliding (Reqs 1SH)                                               |
| 175.00 | QNX          | TIRES: P225/60-R16 B/W Touring Radial (Replaces P205/70R-15 Tires)                  |
|        |              | (Reqs 16" PY0 Wheels)                                                               |
|        |              | WHEELS:                                                                             |
| 300.00 | PY0          | 16" Sporty Aluminum (Replaces Base 15" Deluxe Bolt-On Wheel Cover) (Reqs QNX Tires) |
| N.C.   | 16P          | 16" White Aluminum (Reqs Color 16U Exterior White Paint and QNX Tires)              |

**REVISED: 9-2-97** 

#### **MONTE CARLO LS COUPE**

#### INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE**: The Exterior Paint and Interior Trim Combinations Shown Below are the only Combinations that are available

|                       | TRIM LEVEL          | (a)SEAT | IN       | ITERIOR C | OLORS      |          |
|-----------------------|---------------------|---------|----------|-----------|------------|----------|
|                       | Seat Type           | OPTION  | Med Gray | Graphite  | Neutral    | Med Blue |
| N.C.                  | Custom Cloth 60/40  | AM6     | 92D      | 12D       | 52D        | 30D      |
| 200.00                | Custom Cloth Bucket | AR9     | 92D      | 12D       | 52D        | 30D      |
| 695.00                | Leather Bucket      | AR9     |          | 122       | 522        |          |
| Exterior Color        | s                   | Color   | R        | ECOMMENDE | D INTERIOR |          |
| Solid Paint           |                     | Code    |          | TRIM CO   | LORS       |          |
| Black                 |                     | 41U     | Х        | Х         | Х          |          |
| Blue, Mediui          | m Regal (Met)       | 27U     | Х        | Х         | Х          | х        |
| Blue, Navy (          | Met)                | 28U     | Х        |           | Х          | x        |
| Driftwood, Lt         | t (Met)             | 33U     |          |           | Х          |          |
| Green, Dk Ja          | ade (Met)           | 56U     | Х        | Х         | Х          |          |
| Pewter, Lt (N         | Лet)                | 11U     | X        | Х         | х          |          |
| Purple, Deep (Met)    |                     | 89U     | Х        | Х         | Х          |          |
| Red, Dk Carmine (Met) |                     | 51U     | Х        | Х         | Х          |          |
| Red, Torch            |                     | 70U     | Х        | Х         | Х          |          |
| White, Brigh          | t                   | 16U     | Х        | Х         | Х          | Х        |

<sup>(</sup>a)Seat Option AM6 or AR9 Must Be Specified

#### **MONTE CARLO Z34 COUPE**

\*20,845.00

**REVISED: 9-2-97** 

#### Model 1WX27 MONTE CARLO Z34 COUPE

\*Includes Destination & Handling Charges

| MUST ORDER ONE 1SJ NO DELETIONS ALLOWED                                     | 1SJ |
|-----------------------------------------------------------------------------|-----|
|                                                                             |     |
| N.C. Base Preferred Equipment Group (Refer Standard Equipment Summary Page) | x   |

#### **ADDITIONAL OPTIONS**

|        |     | A CIVAIONAL EDGRAFAITS.                                                            |
|--------|-----|------------------------------------------------------------------------------------|
|        |     | ACKNOWLEDGMENTS:                                                                   |
| N.C.   | R8S | Multiple Order Numbers                                                             |
| V.P.S. | R8T | Preliminary Invoice (Refer Vehicle Price Schedule)                                 |
| N.C.   | VK3 | BRACKET: License Plate, Front                                                      |
|        |     | DEFOGGER: (MUST SPECIFY)                                                           |
| 170.00 | C49 | Rear Window: Electric                                                              |
| N.C.   | R9W | Rear Window Defogger Not Desired                                                   |
|        |     | EMISSIONS: (MUST SPECIFY) (Refer Emission Requirements Tab Section)                |
| N.C.   | FE9 | Federal Emission Requirements                                                      |
| 170.00 | NG1 | New York, Massachusetts or Connecticut Emission Requirements                       |
| 170.00 | YF5 | California Emission Requirements                                                   |
| N.C.   | NB8 | CA, NY, MA or CT State Emission Override (Reqs FE9 Emissions)                      |
| N.C.   | NC7 | Federal Emission Override (Reqs YF5 or NG1 Emissions)                              |
| 20.00  | K05 | HEATER: Engine Block                                                               |
|        |     | RADIO EQUIPMENT:                                                                   |
| 93.00  | UN0 | Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone |
|        |     | Control, Compact Disc Player, Theft Lock & Speed Compensated Volume (Incls Premium |
|        |     | Front & Rear Coaxial Speakers)                                                     |
| 305.00 | WG1 | SEATS, ADDITIONAL: Power (Driver's Side Only)                                      |
| 175.00 | D81 | SPOILER: Rear Deck                                                                 |
| 700.00 | CF5 | SUNROOF: Electric, Sliding                                                         |

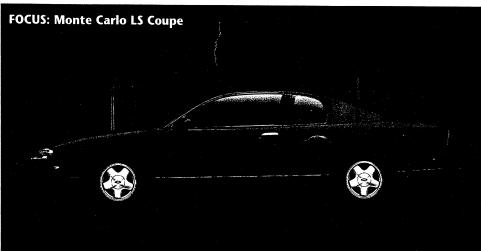
#### **MONTE CARLO Z34 COUPE**

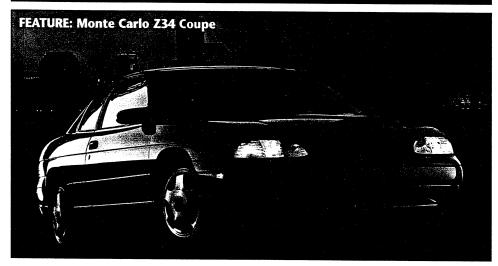
## INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

**PLEASE NOTE**: The Exterior Paint and Interior Trim Combinations Shown Below are the only Combinations that are available

|                |                     | INTERIOR COLORS |          |                      |         |          |  |  |
|----------------|---------------------|-----------------|----------|----------------------|---------|----------|--|--|
|                | TRIM LEVEL          |                 | Med Gray | Graphite             | Neutral | Med Blue |  |  |
| N.C.           | Custom Cloth Bucket |                 | 92D      | 12D                  | 52D     | 30D      |  |  |
| 645.00         | Leather Bucket      |                 |          | 122                  | 522     |          |  |  |
| Exterior Color | S                   | Color           | R        | RECOMMENDED INTERIOR |         |          |  |  |
| Solid Paint    |                     | Code            |          | TRIM COLORS          |         |          |  |  |
| Black          |                     | 41U             | Х        | Х                    | Х       |          |  |  |
| Blue, Navy (   | Met)                | 28U             | x        |                      | х       | Х        |  |  |
| Driftwood, L   | t (Met)             | 33U             |          |                      | Х       |          |  |  |
| Green, Dk Ja   | ade (Met)           | 56U             | Х        | Х                    | Х       |          |  |  |
| Pewter, Lt (N  | Met)                | 11U             | х        | Х                    | Х       |          |  |  |
| Red, Dk Car    | mine (Met)          | 51U             | Х        | Х                    | Х       |          |  |  |
| Red, Torch     |                     | 70U             | Х        | Х                    | Х       |          |  |  |
| White, Brigh   | t                   | 16U             | Х        | Х                    | Х       | Х        |  |  |

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





**Monte Carlo** at a glance

The victorious racing heritage of the sleek, sophisticated Monte Carlo translates into a leadership message of performance, durability and technology, which is reflected in the fact that Monte Carlo surpassed Ford Thunderbird in total vehicle registrations in 1996.



The Focus

vehicle is the

model chosen

for its sale-

ability. It is

the product

features that

customers

want most.

Generally, it is

the "volume"

vehicle that

comprises the

build, You'll

want to be

models in

sure you have

several of these

stock. NOTE:

Model, PEG

and optional equipment

may varv in

your locality.

Use the Retail

Sales Analysis

(RSA) to verify

or select vour dealership's

Focus vehicle content.

majority of the

equipped with

#### Monte Carlo LS Coupe (image above, top)

The Focus vehicle for 1998 is Monte Carlo LS Coupe. This truly affordable, midsize, 6-passenger coupe offers sleek, contemporary styling teamed with an intelligent combination of standard safety and performance features. When equipped with the recommended PEG 1SH, this model represents the best opportunity for Monte Carlo high-volume sales at your dealership.

#### Ordering Recommendations:

Recommended Monte Carlo LS Coupe content, based on anticipated national sales volume, is listed below to assist your dealership in ordering.

Monte Carlo LS Coupe with PEG 1SH includes:

- Cargo Retaining Net
- Power Trunk Opener and Remote Keyless Entry
- Dual Temperature Control
- Electronic Speed Control with Resume Speed.

Recommended Individual options:

- Rear-Window Defogger
- Sporty Aluminum Wheels (require P225/60R-16 B/W Touring tires).

Popular Colors: Black, Bright White, Dark Jade Green Metallic, Torch Red and Dark Carmine Red Metallic.



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

#### Monte Carlo Z34 Coupe (image above, bottom)

The Feature vehicle for 1998 is Monte Carlo Z34 Coupe. This powerful, well-appointed sport coupe was designed to please the true automotive enthusiast. Standard features include:

- 3800 Series II V6 with Sequential Fuel Injection
- Tuned Ride and Handling Suspension
- Analog Instrumentation with Tachometer and Trip Odometer
- New 16" Machine-Faced Aluminum Wheels and Goodyear Eagle RS-A Performance Tires
- Custom Cloth Bucket Seats with Center Storage Armrest and Cup Holder
- Dual Tailpipes
- Dual Remote Body-Color Electric Mirrors
- Radio Controls include Leather-Wrapped Steering
- Electronic Speed Control
- Remote Keyless Entry.

Popular Colors: Black, Dark Jade Green Metallic and Torch Red.



Custom Cloth available in Neutral, Medium Blue, Graphite and Medium Gray (standard on LS Coupe and Z34 Coupe).



**Seat Styles** 

# G A

#### Wheels



Monte Carlo LS standard 15" deluxe bolt-on wheel cover.





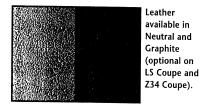
Monte Carlo LS optional 16" sporty aluminum wheel with chrome bowtie. Also available in white with **Bright White** exterior.\*



Monte Carlo Z34 standard 16" machinefaced aluminum wheel.



\*Requires optional P225/60R-16 Touring tires.



C C

- A. Custom Cloth 60/40 front bench seat (standard on LS Coupe).
- B. Custom Cloth front bucket seats with storage console and cup holder (optional on LS Coupe, standard on Z34).
- C. Front bucket seats with leather seating accents, storage console and cup holder (optional on LS and Z34 Coupe).

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

**INTERIOR MATERIAL COLORS** 

|                 | Medium<br>Gray | Graphite | Neutral | Medium<br>Blue |
|-----------------|----------------|----------|---------|----------------|
| EXTERIOR COLORS |                |          |         |                |
| Bright          | . 4            | 4        | 4       | 4              |
| White           |                |          | V       |                |
| Dark Jade       | - 4            |          | 4       |                |
| Green Metallic  | V              |          | V       |                |
| Torch           | 4              | 4        | 4       |                |
| Red             | <b>V</b>       |          |         |                |
| Black           | V              | <b>/</b> | /       |                |

See order guide for color availability by model.

#### Most Popular Exterior Colors by Percentage



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

| Bright White             | 18%  |
|--------------------------|------|
| Dark Jade Green Metallic | 16%  |
| Torch Red                | 15%  |
| Black                    | 14%  |
| Other colors             | 270/ |

NOTE: New Monte Carlo exterior colors are Light Pewter Metallic, Medium Regal Blue Metallic, Navy Blue Metallic and Light Driftwood Metallic. Granite Metallic, Medium Adriatic Blue Metallic, Light Adriatic Blue Metallic and Medium Lichen Green Metallic have been deleted.

#### **Competitive Models**

- Ford Thunderbird
- Mercury Cougar
- Chrysler Sebring
- Dodge Avenger.

#### **New for 1998**

• The highly respected 3800 Series II V6 SFI, judged one of the top ten engines in the world (*Ward's Auto World*, January 1996), replaces the 3.4 DOHC V6 on Z34 models for 1998. A lightweight, high-performance pushrod overhead valvetrain allows the 3800 to rev to 5800 rpm, making it competitive with multi-valve overhead cam designs. The 3800 Series II is teamed with a four-speed electronically-controlled automatic transmission for virtually seamless shifting.

#### Additional Information on Significant Features

- Monte Carlo features a truly world-class body structure for impressive rigidity, minimized squeaks and rattles and an unusually quiet ride.
- The 3100 V6 SFI engine, standard in Monte Carlo LS, boasts 160 horsepower for outstanding power and performance. Sequential Fuel Injection (SFI) precisely matches fuel delivery to each cylinder's intake stroke for a smooth idle, low emissions and excellent driveability.
- Additional features include a "high-resolution" 24X ignition system, which allows finer calibration at low rpm levels and results in fast ignition and smooth idle. The system sends 24 crankshaft reference signals to the powertrain control module for each crankshaft revolution. This provides more precise monitoring of engine position and improves spark delivery yielding enhanced driveability and exhaust emissions control at low rpm levels.

| Feature Availability                                    | Monte Carlo<br>LS Coupe | Monte Carlo<br>Z34 Coupe |  |
|---------------------------------------------------------|-------------------------|--------------------------|--|
| INTERIOR                                                |                         |                          |  |
| Air Bag – Driver and Front-Passenger                    | S                       | S                        |  |
| Air Conditioning – with CFC-Free Refrigerant            | S                       | S                        |  |
| Convenience Net – Luggage-Area                          | O <sup>1</sup>          | S                        |  |
| Cup Holders – Instrument Panel (60/40 Seats)            | S                       | NA                       |  |
| - Center Console (Bucket Seats)                         | 0                       | S                        |  |
| Defogger(s) – Rear-Window                               | 0                       | 0                        |  |
| – Side-Window                                           | S                       | S                        |  |
| Door Locks - Power                                      | S                       | S                        |  |
| Floor Mats – Carpeted, Front and Rear                   | S                       | S                        |  |
| Gauges – Tachometer and Odometer                        | S                       | S                        |  |
| Lights, Interior – Theatre Lighting                     | S                       | S                        |  |
| Low Coolant Level Monitor Light                         | S                       | S                        |  |
| Low Oil Level and Wear Indicator Monitors               | S                       | S                        |  |
| OnStar System – Dealer Installed                        | 0                       | 0                        |  |
| PASS-Key II Theft-Deterrent System                      | S                       | S                        |  |
| Scotchgard™ Protector                                   | S                       | S                        |  |
| Seats – 6-Way Power Driver                              | 0                       | 0                        |  |
| - 60/40 Custom Cloth, Front                             | S                       | NA NA                    |  |
| - Custom Cloth Bucket, Front                            | 0                       |                          |  |
| - Leather Bucket, Front                                 | 0                       | \$                       |  |
| - Split-Folding, Rear                                   | S                       | 0                        |  |
| Speed Control – Electronic with Resume Speed            | O <sup>1</sup>          | S                        |  |
| Steering Column – Tilt-Wheel™ Adjustable                |                         | S                        |  |
| Steering Wheel with Radio Controls – Leather-Wrapped    | S<br>O¹                 | <u> </u>                 |  |
| Stereo – AM/FM with Cassette Player                     |                         | S                        |  |
| - AM/FM with CD Player                                  | S                       | S                        |  |
|                                                         | 0                       | 0                        |  |
| /isor Mirrors – LH and Illuminated RH Vanity            | S                       | S                        |  |
| Sunroof - Electric                                      | O <sup>1</sup>          | 0                        |  |
| Temperature Controls – Driver and Front-Passenger       | O <sup>1</sup>          | S                        |  |
| Trunk – Power Opener                                    | 01                      | S                        |  |
| Nindows – Power with Driver's Express-Down Feature      | S                       | S                        |  |
| Nipers – Intermittent Variable                          | S                       | S                        |  |
| EXTERIOR                                                |                         |                          |  |
| Daytime Running Lamps – Automatic                       | S                       | S                        |  |
| xhaust System – Stainless-Steel (dual tailpipes on Z34) | S                       | S                        |  |
| Mirrors – Outside Dual Body-Color Twin Remote Electric  | \$                      | S                        |  |
| Moldings – Body-Side                                    | S                       | S                        |  |
| Paint – Basecoat/Clearcoat                              | S                       | S                        |  |
| ires – P205/70R-15 Blackwall Touring                    | S                       | NA                       |  |
| - P225/60R-16 Blackwall Touring                         | O <sup>2</sup>          | NA                       |  |
| <ul><li>– P225/60R-16 Blackwall Eagle RS-A</li></ul>    | NA                      | S                        |  |
| Vheel Covers – 15" Bolt-On                              | S                       | NA                       |  |
| Wheels – 16" Sporty Aluminum                            | O <sup>3</sup>          | NA                       |  |
| Vheels – 16" Machine-Faced Aluminum                     | NA.                     | S                        |  |
| UNCTIONAL                                               |                         |                          |  |
| rakes – 4-Wheel Anti-Lock                               | S                       | S                        |  |
| - Power, Front Disc/Rear Drum                           | S                       | NA                       |  |
| - Power, Front/Rear Disc                                | NA                      | S                        |  |
| ngine - 3100 V6 SFI                                     | S                       | NA NA                    |  |
| - 3800 Series II V6 SFI                                 | NA NA                   | S                        |  |
| uel Tank – 16.6-Gallon Capacity                         | S                       |                          |  |
| emote Keyless Entry                                     | O <sup>1</sup>          | S                        |  |
| uspension – 4-Wheel Independent                         |                         | S                        |  |
| - Ride and Handling                                     | S                       | S                        |  |
| - mue and manumy                                        | NA<br>S                 | S                        |  |

S — Standard. O — Optional (some options may be available only as part of a Preferred Equipment Group; see your order guide for feature availability). NA — Not available. 1 Requires optional PEG 1SH. 2 Requires optional 16" sporty aluminum wheels. 3 Requires optional P225/60R-16 Touring tires.

# Monte Carlo

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

change.

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





• AVAILABLE OnStar<sup>SM</sup> SYSTEM (DEALER INSTALLED) — uses satellite technology to offer support 24 hours a day, 7 days a week, with features like a hands-free voice activated cellular phone, route guidance information, remote door unlocking capability and stolen vehicle tracking. • 4-WHEEL ANTI-LOCK BRAKE SYSTEM (ABS) — helps reduce wheel lockup and helps the driver maintain steering control during severe braking, even on slippery surfaces. • 4-WHEEL DISC BRAKES (STANDARD ON Z34) — resist fading and offer impressive stopping power. • DRIVER AND FRONT-PASSENGER AIR BAGS — help reduce the chance of injury in certain moderate to severe frontal collisions. Always wear safety belts, even with air bags. • SAFETY-CAGE CONSTRUCTION — surrounds the entire passenger compartment. • PASS-Key II THEFT-DETERRENT SYSTEM — consists of a small resistance-coded pellet in the ignition key, which must match a measurement circuit in the steering column to enable the engine to start.

#### **PERFORMANCE**

• 3800 V6 SFI ENGINE ON Z34 MODELS — this world-class Series II V6 SFI delivers 200 hp at 5200 rpm, for truly impressive performance. • IMPROVED FOUR-WHEEL INDEPENDENT SUSPENSION — provides an excellent combination of ride and response. (F41 Ride and Handling Suspension is standard on Z34 model.)

• 3100 V6 SFI ENGINE AND 4-SPEED ELECTRONICALLY CONTROLLED AUTOMATIC TRANSMISSION (STANDARD ON LS) — deliver smooth, effortless power for passing and merging. Shifts are virtually seamless.

#### **APPEARANCE**

• FOUR NEW EXTERIOR COLORS — Navy Blue Metallic, Light Driftwood Metallic, Light Pewter Metallic and Medium Regal Blue Metallic. • BASECOAT/CLEARCOAT PAINT — not only provides a more durable, lustrous finish, but reduces the severity of water-spotting and etching from acid rain. • TWO-SIDE-GALVANIZED STEEL — on all exterior body panels (except the roof), for corrosion protection.



#### **COMFORT AND CONVENIENCE**

• OPTIONAL ELECTRIC SUNROOF — provides outside air and sunlight. • OPTIONAL RADIO CONTROLS INCLUDE LEATHER-WRAPPED STEERING WHEEL (STANDARD ON Z34, OPTIONAL ON LS MODEL) — make driving more comfortable/stylish, and allow for effortless radio control. • SPLIT-FOLDING REAR SEAT — allow long cargo items to extend from trunk to rear-passenger area. • OPTIONAL INDIVIDUAL DRIVER AND FRONT-PASSENGER TEMPERATURE CONTROLS (STANDARD ON Z34 OPTIONAL ON LS MODEL)— create a more comfortable environment for the driver and front-seat passenger.



#### **EASY-TO-OWN**

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

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

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

**METRIC (U.S. CUSTOMARY)** 

1998

| Manufacturer    | CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION | Vehicle Line<br> <br>  MONTE CAF | RLO     |
|-----------------|-----------------------------------------------------|----------------------------------|---------|
| Mailing Address |                                                     |                                  |         |
|                 | 30007 VAN DYKE<br>WARREN, MI 48090-9065             |                                  | Revised |

Direct questions concerning these specifications to the manufacturer listed above.

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

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



American Automobile Manufacturers Association

Blank Forms Provided by Technical Affairs Division

# **Specifications**

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#### 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) specifications 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.

| Vehicle Line | MONTE | CARLO  |
|--------------|-------|--------|
| Model Year   | 1998  | Issued |

Revised (●)

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

Vehicle Origin

| 1 2 11 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Design & development (company)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | G.M., Midsize Car Division |
| Where built (country)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Canada                     |
| Authorized U.S. sales marketing representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Chevrolet Motor Division   |

#### **Vehicle Models**

| Model<br>Description & Drive<br>(FWD / RWD / AWD)* | Introduction<br>Date | Make, Vehicle Models,<br>Series, Body Type<br>(Mfgr's Model Code) | No. of Designated<br>Seating Positions<br>(Front / Rear) | Max. Trunk/Cargo<br>Load-Kilograms<br>(Pounds) | EPA Fuel<br>Economy<br>(City/Hwy) |
|----------------------------------------------------|----------------------|-------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------|-----------------------------------|
| MONTE CARLO LS<br>2-Door Notchback Coupe (FWD)     |                      | 1WW27                                                             | 6 (3/3)<br>5 (2/3) Opt.                                  |                                                | 19/29 - L82                       |
| MONTE CARLO Z34<br>2-Door Notchback Coupe (FWD)    |                      | 1WX27                                                             | 5 (2/3)                                                  |                                                | 19/30 - L36                       |

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

| Vehicle Line | MONTE | CARLO  |             |
|--------------|-------|--------|-------------|
| Model Year   | 1998  | Issued | Revised (●) |

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

#### **Power Teams**

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

|             |                   |                                       | Α                            | В                            | С | D |
|-------------|-------------------|---------------------------------------|------------------------------|------------------------------|---|---|
|             | Engine            | Code                                  | L82                          | L36                          |   |   |
|             | Displac           |                                       | 3.1 (191)                    | 3.8 (231)                    |   |   |
| E           | Induction         | on system<br>rb, etc.)                | Sequential<br>Fuel Injection | Sequential<br>Fuel Injection |   |   |
| N<br>G      | Compro<br>ratio   | ession                                | 9.6:1                        | 9.4:1                        |   |   |
| I<br>N<br>E | SAE<br>Net        | Power<br>kW (bhp)                     | 119 (160) @ 5200             | 149 (200) @ 5200             |   |   |
| E           | at<br>RPM         | Torque<br>N • m (lb. ft.)             | 251 (185) @ 4000             | 305 (225) @ 4000             |   |   |
|             | Exhaus<br>single, |                                       | Single                       | Dual                         |   |   |
| T<br>R      | Transm<br>Transa  |                                       | M13                          | M15                          |   |   |
| A<br>N<br>S |                   | ve Final Drive /<br>atio (std. first) | 3.29                         | 3.29                         |   |   |

| Series Ava            | liability | Power Teams | s (A - B - C - D) |
|-----------------------|-----------|-------------|-------------------|
| Model                 | Code      | Standard    | Optional          |
| MONTE CARLO LS        |           |             |                   |
| 2-Dr. Notchback Coupe | 1WW27     | А           | -                 |
|                       |           |             |                   |
| MONTE CARLO Z34       |           |             |                   |
| 2-Dr. Notchback Coupe | 1WX27     | В           | _                 |
|                       |           |             |                   |
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| Vehicle Line | MONTE | CARLO  |             |
|--------------|-------|--------|-------------|
| Model Year   | 1998  | Issued | Revised (●) |

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

| Engine        | Description |
|---------------|-------------|
| <b>Engine</b> | Code        |

| 3.1 LITER V6 |  |
|--------------|--|
| L82          |  |

#### **Engine - General**

| Engine - General                                                                                                                                   |                                                                       |                                                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.) |                                                                       | 60 Degree V, Front, Transverse, OHV                                                                                 |
| Manufacturer                                                                                                                                       |                                                                       | General Motors Powertrain Group                                                                                     |
| No. of cylinders                                                                                                                                   |                                                                       | Six                                                                                                                 |
| Bore                                                                                                                                               |                                                                       | 89.0 mm                                                                                                             |
| Stroke                                                                                                                                             |                                                                       | 84.0 mm                                                                                                             |
| Bore Spacing (C / L                                                                                                                                | . to C / L)                                                           | 111.76 mm                                                                                                           |
| Cylinder block mate                                                                                                                                | erial & mass kg. (lbs.) (machined)                                    | Cast Iron, 55.6 (122.6)                                                                                             |
| Cylinder block deck                                                                                                                                | height                                                                | 224.0 mm                                                                                                            |
| Cylinder block lengt                                                                                                                               | th                                                                    | 435.5 mm                                                                                                            |
| Deck clearance (mi<br>(above or below blo                                                                                                          |                                                                       | 0.58 mm (Above)                                                                                                     |
| Cylinder head mate                                                                                                                                 | rial & mass kg. (lbs.)                                                | Cast Aluminum, 6.9 (15.2)                                                                                           |
| Cylinder head volun                                                                                                                                | ne cm³ (inches³)                                                      | 26.2 (1.6)                                                                                                          |
| Cylinder liner mater                                                                                                                               | ial                                                                   | Not Applicable                                                                                                      |
| Head gasket thickness<br>(compressed)                                                                                                              |                                                                       | 1.55 mm                                                                                                             |
| Minimum combustion total volume cm³ (in                                                                                                            |                                                                       | 60.29 (3.7)                                                                                                         |
| Cyl. no. system                                                                                                                                    | L. Bank                                                               | 2-4-6                                                                                                               |
| (front to rear)*                                                                                                                                   | R. Bank                                                               | 1-3-5                                                                                                               |
| Firing order                                                                                                                                       | •                                                                     | 1-2-3-4-5-6                                                                                                         |
| Intake manifold mat                                                                                                                                | erial & mass kg. (lbs.)**                                             | Cast Aluminum, 8.7 (19.2)                                                                                           |
| Exhaust manifold m                                                                                                                                 | aterial & mass kg. (lbs)**                                            | Cast Iron, Right: 4.3 (9.5), Left: 2.3 (5.1)                                                                        |
| Knock sensor (num                                                                                                                                  | ber & location)                                                       | One, Left Side of Block                                                                                             |
| Fuel required unleaded, diesel, etc.                                                                                                               |                                                                       | Unleaded                                                                                                            |
| Fuel antiknock index (R + M) ÷ 2                                                                                                                   |                                                                       | 86                                                                                                                  |
|                                                                                                                                                    | Quantity                                                              | Total 4 (1 Engine Mount, 1 Transmission Mount and 2 Torque Reacting Mounts)                                         |
| Engine<br>Mounts                                                                                                                                   | Material and type (elastomeric, hydroelastic, hydraulic damper, etc.) | Engine Mount - Hydroelastic; Transmission Mount - Hydroelastic Torque Reacting Mounts - Natural Rubber and Neoprene |
|                                                                                                                                                    | Added isolation (sub-frame, crossmember, etc.)                        | Isolated Cradle                                                                                                     |
| Total dressed engine mass (wt) dry***                                                                                                              |                                                                       | 184 kg                                                                                                              |

#### **Engine - Pistons**

| Material & mass, g          |                            |
|-----------------------------|----------------------------|
| (weight, oz.) - piston only | Aluminum Alloy, 375 (13.2) |

#### **Engine - Camshaft**

| Location                          |               | Above Crankshaft at Center of "V" |
|-----------------------------------|---------------|-----------------------------------|
| Material & mass kg (weight, lbs.) |               |                                   |
|                                   |               | Assembled Steel, 2.3 (5.1)        |
| Drive                             | Chain / belt  | Chain                             |
| type                              | Width / pitch | 15.88 mm / 9.53 mm                |

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

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<sup>\*\*</sup> Finished state.

<sup>\*\*\*</sup> Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.

| Vehicle Line | MONTE | CARLO  |             |
|--------------|-------|--------|-------------|
| Model Year   | 1998  | Issued | Revised (●) |

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

| Engine | Description |
|--------|-------------|
| Engine | Code        |

| 3.8 | LITER | V6 |  |
|-----|-------|----|--|
| L36 |       |    |  |

| Type & description (in<br>flat, location, front, mid<br>transverse, longitudina<br>ohv, hemi, wedge, pre | d, rear,<br>al, sohc, dohc,                                           | 90 Degree V, Front, Transverse,OHV                                                                                     |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Manufacturer                                                                                             |                                                                       | General Motors Powertrain Group                                                                                        |
| No. of cylinders                                                                                         |                                                                       | Six                                                                                                                    |
| Bore                                                                                                     |                                                                       | 96.52 mm                                                                                                               |
| Stroke                                                                                                   |                                                                       | 86.36 mm                                                                                                               |
| Bore Spacing (C / L to                                                                                   | C / L)                                                                | 107.7 mm                                                                                                               |
| Cylinder block materia                                                                                   | al & mass kg. (lbs.) (machined)                                       | Cast Iron, 55.7 (122.8)                                                                                                |
| Cylinder block deck he                                                                                   | eight                                                                 | 216.49mm                                                                                                               |
| Cylinder block length                                                                                    |                                                                       | 396.0 mm                                                                                                               |
| Deck clearance (minin<br>(above or below block                                                           | ;)                                                                    | 0.56 mm (Above)                                                                                                        |
| Cylinder head materia                                                                                    |                                                                       | Cast Iron, 14.4 (31.7)                                                                                                 |
| Cylinder head volume                                                                                     |                                                                       | 62.93 (3.81)                                                                                                           |
| Cylinder liner material                                                                                  |                                                                       | Not Applicable                                                                                                         |
| Head gasket thickness (compressed)                                                                       |                                                                       | 1.5 mm                                                                                                                 |
| Minimum combustion chamber total volume cm³ (inches³)                                                    |                                                                       | 75.675 (4.618)                                                                                                         |
| (frank to room) t                                                                                        | L. Bank                                                               | 1-3-5                                                                                                                  |
| 11                                                                                                       | R. Bank                                                               | 2-4-6                                                                                                                  |
| Firing order                                                                                             |                                                                       | 1-6-5-4-3-2                                                                                                            |
| Intake manifold materi                                                                                   | <u> </u>                                                              | Lower: Aluminum, Upper: Composite, 11.4 (25.1)                                                                         |
|                                                                                                          | erial & mass kg. (lbs)**                                              | Right: Tubular Stainless Steel, 3.5 (7.7), Left: Cast Nodular Iron, 3.8 (8.4)                                          |
| Knock sensor (number                                                                                     |                                                                       | Two Sides of Block                                                                                                     |
| Fuel required unleaded, diesel, etc.                                                                     |                                                                       | Unleaded                                                                                                               |
| Fuel antiknock index (R + M) ÷ 2                                                                         |                                                                       | 87                                                                                                                     |
| <u>L</u>                                                                                                 | Quantity                                                              | Total 4 (1 Engine Mount, 1 Transmission Mount and 2 Torque Reacting Mounts)                                            |
|                                                                                                          | Material and type (elastomeric, hydroelastic, hydraulic damper, etc.) | Engine Mount - Hydroelastic; Transmission Mount - Hydroelastic<br>Torque Reacting Mounts - Natural Rubber and Neoprene |
|                                                                                                          | Added isolation (sub-frame, crossmember, etc.)                        | Isolated Cradle                                                                                                        |
| Total dressed engine r                                                                                   | mass (wt) dry***                                                      | 201 kg                                                                                                                 |

#### **Engine - Pistons**

| Mater | rial & mass, g         | Eutectic Aluminum Alloy, 387.0 (13.65)  |
|-------|------------------------|-----------------------------------------|
| (weig | ht, oz.) - piston only | , , , , , , , , , , , , , , , , , , , , |

#### **Engine - Camshaft**

| Location      |                       | In Block                        | In Block |  |
|---------------|-----------------------|---------------------------------|----------|--|
| Material & m  | ass kg (weight, lbs.) | 5150 Steel, 2.5 (5.5)           |          |  |
| Drive<br>type | Chain / belt          | Chain                           |          |  |
|               | Width / pitch         | 0.398 mm Over Guides / 0.323 mm |          |  |

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

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<sup>\*\*\*</sup> Dressed engine mass (weight) includes the following: All those items necessary to make the engine a complete ready-to-run unit.

 Vehicle Line
 MONTE CARLO

 Model Year
 1998
 Issued
 Revised (●)

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

| Engine        | Description |
|---------------|-------------|
| <b>Engine</b> | Code        |

3.8 LITER V6 L36

**Engine - Valve System** 

| Hydraulic lifters (std., opt., n.a.) |                            | Standard           |
|--------------------------------------|----------------------------|--------------------|
|                                      | Number intake / exhaust    | Six/Six            |
| Valves                               | Head O.D. intake / exhaust | 45.72 mm / 38.6 mm |

**Engine - Connecting Rods** 

| Material & mass kg., (weight, lbs.)* | Pearlitic Malleable Iron, 0.63 (1.4) |
|--------------------------------------|--------------------------------------|
| Length (axes C/L to C/L)             | 145.85 mm                            |

**Engine - Crankshaft** 

| Material & mass kg., (weight, lbs.)*     |       | Nodular Cast Iron, 15.4 (34.0) |
|------------------------------------------|-------|--------------------------------|
| End thrust taken by bearing (no.)        |       | Two                            |
| number & length of main bearing journals |       | 21.95 mm; Four                 |
| Seal (material, one, two                 | Front | Rubber Lip, One Piece          |
| piece design, etc.)                      | Rear  | Rubber Lip, One Piece          |

**Engine - Lubrication System** 

| Normal oil pressure kPa (psi) at engine rpm    | 414 (60) @ 2000 |
|------------------------------------------------|-----------------|
| Type oil intake (floating, stationary)         | Stationary      |
| Oil filter system (full flow, part, other)     | Full Flow       |
| Capacity of c/case, less filter-refill-L (qt.) | 3.78 (4.0)      |

#### **Engine - Diesel Information**

#### (NOT APPLICABLE)

| gccc                                                           | JOI IIII OI III MAIOII     | (1101711121071022) |
|----------------------------------------------------------------|----------------------------|--------------------|
| Diesel engine manufacturer                                     |                            |                    |
| Glow plug, current drain at 0°F.                               |                            |                    |
| Injector                                                       | Туре                       |                    |
| nozzle                                                         | Opening pressure kPa (psi) |                    |
| Pre-chamber des                                                | ign                        |                    |
| Fuel Injection                                                 | Manufacturer               |                    |
| pump                                                           | Туре                       |                    |
| Fuel injection pump drive (belt, chain, gear)                  |                            |                    |
| Supplementary vacuum source (type)                             |                            |                    |
| Fuel heater (yes/no)                                           |                            |                    |
| Water separator, description (std., opt.)                      |                            |                    |
| Turbo manufacturer                                             |                            |                    |
| Oil cooler-type (oil to engine coolant;<br>oil to ambient air) |                            |                    |
|                                                                |                            |                    |

#### **Engine - Intake System**

(NOT APPLICABLE)

|   | Ziigiiio iiitaito eyeteiii   | (1107711121071222) |
|---|------------------------------|--------------------|
|   | Turbo charger - manufacturer |                    |
| F | Super charger - manufacturer |                    |
|   | Intercooler                  |                    |

<sup>\*</sup> Finished State

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| Vehicle Line | MONTE C | ARLO   |             |
|--------------|---------|--------|-------------|
| Model Year   | 1998    | Issued | Revised (●) |

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

| Engine | Description |
|--------|-------------|
| Engine | Code        |

| 3.1 LITER V6 |  |
|--------------|--|
| L82          |  |

**Engine - Valve System** 

| Hydraulic lifters (std., opt., n.a.) |        | , opt., n.a.)              | Standard            |
|--------------------------------------|--------|----------------------------|---------------------|
|                                      |        | Number intake / exhaust    | Six/Six             |
| Valv                                 | Valves | Head O.D. intake / exhaust | 43.64 mm / 36.20 mm |

**Engine - Connecting Rods** 

|   | Material & mass kg., (weight, lbs.)* | Forged Steel, 0.59 (1.3) |
|---|--------------------------------------|--------------------------|
| ſ | Length (axes C/L to C/L)             | 144.78 mm                |

**Engine - Crankshaft** 

| Material & mass kg., (weight, lbs.)*                                     |      | Cast Iron, 17.2 (37.9)                                 |  |
|--------------------------------------------------------------------------|------|--------------------------------------------------------|--|
| End thrust taken by bearing (no.)                                        |      | Three                                                  |  |
| Number & Length of main bearing journals  Seal (material, one, two Front |      | One - 29.5 mm; Two and Three - 24.0 mm, Four - 36.0 mm |  |
|                                                                          |      | Viton/Steel, One Piece                                 |  |
| piece design, etc.)                                                      | Rear | Viton/Steel, One Piece                                 |  |

**Engine - Lubrication System** 

| Normal oil pressure kPa (psi) at engine rpm    | 280 - 360 (40.6 - 52.2) @ 2400 |  |
|------------------------------------------------|--------------------------------|--|
| Type oil intake (floating, stationary)         | Stationary                     |  |
| Oil filter system (full flow, part, other)     | Full Flow                      |  |
| Capacity of c/case, less filter-refill-L (qt.) | 3.8 (4.0)                      |  |

#### Engine - Diesel Information

| (NOT APPLICABLE) | (NOT | APPL | .ICABL | E) |
|------------------|------|------|--------|----|
|------------------|------|------|--------|----|

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

#### Engine - Intake System

| (NOT APPLICABL | LE) |  |
|----------------|-----|--|
|----------------|-----|--|

| ziigiiio iiitako oyotoiii    | (NOT ALL EIGHBEE) |
|------------------------------|-------------------|
| Turbo charger - manufacturer |                   |
| Super charger - manufacturer |                   |
| Intercooler                  |                   |

<sup>\*</sup> Finished State

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| Vehicle Line | MONTE CARLO |        |             |  |
|--------------|-------------|--------|-------------|--|
| Model Year   | 1998        | Issued | Revised (●) |  |

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

| Engine        | Description |
|---------------|-------------|
| <b>Engine</b> | Code        |

| 3.8 LITER V6 |  |
|--------------|--|
| L36          |  |

**Engine - Cooling System** 

|                                              | oling System                                    |                                                                                  |                                        |  |  |
|----------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------|--|--|
| Coolant recovery system (std., opt., n.a.)   |                                                 | Standard                                                                         |                                        |  |  |
| Coolant fill location (rad., bottle)         |                                                 | Bottle                                                                           |                                        |  |  |
| Radiator cap relief valve pressure kPa (psi) |                                                 | 103.4 (15.0)                                                                     |                                        |  |  |
| Circulation thermostat                       | Type (choke, bypass)                            | Bypass                                                                           |                                        |  |  |
|                                              | Starts to open at °C (°F)                       | 90 (194)                                                                         |                                        |  |  |
|                                              | Type (centrifugal, other)                       | Centrifugal                                                                      |                                        |  |  |
|                                              | GMP 1000 pump rpm                               | 10                                                                               |                                        |  |  |
|                                              | Number of pumps                                 | One                                                                              |                                        |  |  |
| Water                                        | Drive (V-belt, other)                           | Poly V-Belt                                                                      |                                        |  |  |
| pump                                         | Bearing type                                    | Double Row (Ball/Roller)                                                         |                                        |  |  |
|                                              | Impeller material                               | Cast Iron                                                                        |                                        |  |  |
|                                              | Housing material                                | Aluminum                                                                         |                                        |  |  |
| By-pass recircula                            | tion type (inter., ext.)                        | External                                                                         |                                        |  |  |
| Cooling                                      | With heater - L (qt.)                           | 9.6 (10.2)                                                                       |                                        |  |  |
| System                                       | With air conditioner - L (qt.)                  | 9.6 (10.2)                                                                       |                                        |  |  |
| capacity                                     | Opt. equipment specify - L (qt.)                | Not Applicable                                                                   |                                        |  |  |
| Water jackets full                           | l length of cyl. (yes, no)                      | No                                                                               |                                        |  |  |
| Water all around                             | cylinder (yes, no)                              | Yes                                                                              |                                        |  |  |
| Water jackets op                             | en at head face (yes, no)                       | Yes                                                                              |                                        |  |  |
|                                              | Std., A/C, HD                                   | A/C is Standard Equipment                                                        |                                        |  |  |
|                                              | Type (cross-flow, etc.)                         | Cross-Flow                                                                       |                                        |  |  |
|                                              | Construction (fin & tube                        |                                                                                  |                                        |  |  |
|                                              | mechanical, braze, etc.)                        | High Efficiency Radiator (H.E.R.) Fin & Tube                                     |                                        |  |  |
| Radiator                                     | Material, mass kg (wgt., lbs.)                  | Aluminum, 3.2 (7.05)                                                             |                                        |  |  |
| core                                         | Width                                           | 774.0 mm (30.5 in.)                                                              |                                        |  |  |
|                                              | Height                                          | 382.0 mm (15.0 in.)                                                              |                                        |  |  |
|                                              | Thickness                                       | 16.0 mm (0.630 in.)                                                              |                                        |  |  |
|                                              | Fins per inch                                   | 20, 2.5 mm                                                                       |                                        |  |  |
| Radiator end tank                            | k material                                      | Plastic                                                                          |                                        |  |  |
|                                              | Std., elec., opt.                               | Electric                                                                         | Electric                               |  |  |
|                                              | Number of blades & type (flex, solid, material) | Seven Blades, Solid, Plastic                                                     | Seven Blades, Solid, Plastic           |  |  |
|                                              | Number & location (front, rear of radiator)     | Rear (LH)                                                                        | Rear (RH)                              |  |  |
|                                              | Diameter & projected width                      | 360 mm (14.2 in.) Diameter                                                       | 360 mm (14.2 in.) Diameter             |  |  |
|                                              | Ratio (fan to crankshaft rev.)                  | Not Applicable                                                                   | Not Applicable                         |  |  |
| Fan                                          | Fan cutout type                                 | PCM Controlled                                                                   | PCM Controlled                         |  |  |
|                                              | Drive type (direct, remote)                     | Direct                                                                           | Direct                                 |  |  |
|                                              | RPM at idle (elec.)                             | 1500 RPM (Parallel Mode)                                                         | 1800 RPM (Parallel Mode)               |  |  |
|                                              | Motor rating (wattage/elec.)                    | 90 W                                                                             | 115 W                                  |  |  |
|                                              | Motor Switch (type & Location/elect.)           | Engine Mounted Coolant Temp. Sensor, A/C Liquid Line press. Switch or Transducer | same                                   |  |  |
|                                              | Switch point (temp.,/pressure/elec.)            | Series Mode (Both Low Fan Speed)                                                 | Parallel Mode (Both High Fan Speed)    |  |  |
|                                              | Engine Coolant                                  | On: 222.8°F Off: 219.2°F                                                         | On: 230°F Off: 226.4° F                |  |  |
|                                              | A/C head Pressure<br>with Vehicle Speed         | On: 190 PSI Off: 140 PSI & Below or                                              | On: 240 PSI Off: 190 PSI<br>& Below or |  |  |
|                                              |                                                 | 70 MPH 75+MPH                                                                    | 48 MPH 50+MPH                          |  |  |

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| Vehicle Line | MONTE CARLO |        |             |
|--------------|-------------|--------|-------------|
| Model Year   | 1998        | Issued | Revised (●) |

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

| <b>Engine</b> | Description |
|---------------|-------------|
| <b>Engine</b> | Code        |

| 3.1 | LITER | V6 |  |
|-----|-------|----|--|
| L82 |       |    |  |

**Engine - Cooling System** 

|                                              | oling System<br>y system (std., opt., n.a.) | Standard                                      |                               |
|----------------------------------------------|---------------------------------------------|-----------------------------------------------|-------------------------------|
| Coolant fill location (rad., bottle)         |                                             | Bottle                                        |                               |
| Radiator cap relief valve pressure kPa (psi) |                                             | 103.4 (15)                                    |                               |
| Circulation                                  | Type (choke, bypass)                        | Bypass                                        |                               |
| thermostat Starts to open at °C (°F)         |                                             | 90 (195)                                      |                               |
|                                              | Type (centrifugal, other)                   | Centrifugal                                   |                               |
|                                              | GMP 1000 pump rpm                           | 12                                            |                               |
|                                              | Number of pumps                             | One                                           |                               |
| Water                                        | Drive (V-belt, other)                       | Poly V-Belt                                   |                               |
| pump                                         | Bearing type                                | Double Row (Ball/Roller)                      |                               |
|                                              | Impeller material                           | Cast Iron                                     |                               |
|                                              | Housing material                            | Aluminum                                      |                               |
| By-pass recircul                             | ation type (inter., ext.)                   | External                                      |                               |
| Cooling                                      | With heater - L (qt.)                       | 10.4 (11.0)                                   |                               |
| System                                       | With air conditioner - L (qt.)              | 10.4 (11.0)                                   |                               |
| capacity                                     | Opt. equipment specify - L (qt.)            | Not Applicable                                |                               |
|                                              | Ill length of cyl. (yes, no)                | No.                                           |                               |
|                                              | d cylinder (yes, no)                        | Yes                                           |                               |
| Water jackets open at head face (yes, no)    |                                             | Yes                                           |                               |
| Trater jackets of                            | Std., A/C, HD                               | A/C is Standard Equipment                     |                               |
|                                              | Type (cross-flow, etc.)                     | Cross-Flow                                    |                               |
|                                              | Construction (fin & tube                    | C1033-1 10W                                   |                               |
|                                              | mechanical, braze, etc.)                    | High Efficiency Radiator (H.E.R.), Fin & Tube |                               |
| Radiator                                     | Material, mass kg (wgt., lbs.)              | Aluminum, 3.22 (7.16)                         |                               |
| core                                         | Width                                       | 774.0 mm (30.5 in.)                           |                               |
|                                              | Height                                      | 382.4 mm (15.0 in.)                           |                               |
|                                              | Thickness                                   | 16.0 mm (0.630 in.)                           |                               |
|                                              | Fins per inch                               | 20, 2.5 mm                                    |                               |
| Radiator end tar                             | nk material                                 | Plastic                                       |                               |
| ***************************************      | Std., elec., opt.                           | Electric                                      | Electric                      |
|                                              | Number of blades & type                     |                                               |                               |
|                                              | (flex, solid, material)                     | Seven Blades, Solid, Plastic                  | Seven Blades, Solid, Plastic  |
|                                              | Number & location (front,                   |                                               |                               |
|                                              | rear of radiator)                           | Rear (LH)                                     | Rear (RH)                     |
|                                              | Diameter & projected width                  | 360.0 mm (14.2 in.), Diameter                 | 360.0 mm (14.2 in.), Diameter |
| _                                            | Ratio (fan to crankshaft rev.)              | Not Applicable                                | Not Applicable                |
| Fan                                          | Fan cutout type                             | ECM Controlled                                | ECM Controlled                |
|                                              | Drive type (direct, remote)                 | Direct                                        | Direct                        |
|                                              | RPM at idle (elec.)                         | 1800 Primary                                  | 1650 Secondary                |
|                                              | Motor rating (wattage/elec.)                | 150 W                                         | 90 W                          |
|                                              | Motor switch (type & location/elec.)        | Engine Mounted Coolant Temp. Sensor,          |                               |
|                                              |                                             | A/C Liquid Line Press. Switch or Transducer   | (Same)                        |
|                                              | Switch point (temp.,/pressure/elec.)        | (See Below)                                   | (See Below)                   |
|                                              | Fan shroud (material)                       | Not Available                                 | Not Available                 |

| PRIMARY FAN (LH)     |
|----------------------|
| A/C Head Pressure or |
| Engine Coolant       |

<u>ON</u> <u>OFF</u> 190 PSI 140 PSI 223 deg. F. 216 deg. F. SECONDARY FAN (RH)
A/C Head Pressure or
Engine Coolant
2

 ON
 OFF

 240 PSI
 190 PSI

 235 deg. F.
 228 deg. F.

| Vehicle Line | MONTE | E CARLO |             |
|--------------|-------|---------|-------------|
| Model Year   | 1998  | Issued  | Revised (●) |

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

Engine Description Engine Code

| 20  | LITED | 1.10 |  |
|-----|-------|------|--|
| ა.ი | LITER | VΟ   |  |
|     |       |      |  |
| L36 |       |      |  |
| LJO |       |      |  |
|     |       |      |  |

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

| Induction type: carbu               |                                                        | details of rueringection, Supercriarger, Turbocharger, etc. if used.) |  |
|-------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|--|
| injection system, etc.              |                                                        | Sequential Fuel Injection                                             |  |
| Manufacturer                        |                                                        | Bosch                                                                 |  |
| Carburetor no. of barr              | reis                                                   | Not Applicable                                                        |  |
| Idle A/F mix.                       |                                                        | PCM Controlled                                                        |  |
|                                     | Point of injection (no.)                               | Ports (Six)                                                           |  |
| Fuel                                | Constant, pulse, flow                                  | Pulse                                                                 |  |
| injection                           | Control (electronic, mech.)                            | Electronic                                                            |  |
|                                     | System pressure kPa (psi)                              | 350 (50.8)                                                            |  |
|                                     | Manual                                                 | Not Applicable                                                        |  |
| Idle speed-rpm<br>(spec. neutral or |                                                        |                                                                       |  |
| drive and propane if used)          | Automatic                                              | PCM Controlled                                                        |  |
| Intake manifold heat of             | `                                                      |                                                                       |  |
| or water thermostatic               | or fixed)                                              | Throttle Body Water Heat; No Induction Air Heat                       |  |
| Air cleaner type                    |                                                        | Replaceable Paper Element                                             |  |
| Fuel filter (type/location)         |                                                        | Inline, Replaceable / Near Fuel Tank                                  |  |
|                                     | Type (elec. or mech.)                                  | Electric                                                              |  |
| Fuel                                | Location (eng., tank)                                  | Tank                                                                  |  |
| pump                                | Pressure range kPa (psi)                               | 270-350 (39.2 - 50.8)                                                 |  |
|                                     | Flow rate at regulated pressure L (gal)/hr @ kPa (psi) | 82 @ 350 (21.6 @ 50.8)                                                |  |

#### **Fuel Tank**

| i dei Talik                 |                          |                                                                                  |  |
|-----------------------------|--------------------------|----------------------------------------------------------------------------------|--|
| Capacity refill L (gallons) |                          | 62.8 (16.6)                                                                      |  |
| Location (describe)         |                          | Underbody, Forward of Rear Cross Member                                          |  |
| Attachment                  |                          | Two Steel Straps w/Four Vertical Fasteners                                       |  |
| Material & Mass i           | kg. (weight lbs.)        | Stamped Zinc/Nickel Steel Upper & Lower with Perimeter Seam Wld, 11.338 (25.065) |  |
| Filler                      | Location & material      | Left Rear Quarter Panel-Steel                                                    |  |
| pipe                        | Connection to tank       | Flexible Hose - Low Permeation                                                   |  |
| Fuel line (materia          | ıl)                      | Steel & Low Permeation, High Conductivity Nylon                                  |  |
| Fuel hose (mater            | ial)                     | Low Permeation, High Conductivity Nylon                                          |  |
| Return line (material)      |                          | Steel & Low Permeation, High Conductivity Nylon                                  |  |
| Vapor line (material)       |                          | Steel & Low Permeation, High Conductivity Nylon                                  |  |
|                             | Opt., n.a.               | Not Available                                                                    |  |
| Extended                    | Capacity L (gallons)     | Not Available                                                                    |  |
| range                       | Location & material      | Not Available                                                                    |  |
| tank                        | Attachment               | Not Available                                                                    |  |
|                             | Opt., n.a.               | Not Available                                                                    |  |
| Auxiliary<br>tank           | Capacity L (gallons)     | Not Available                                                                    |  |
|                             | Location & material      | Not Available                                                                    |  |
|                             | Attachment               | Not Available                                                                    |  |
|                             | Selector switch or valve | Not Available                                                                    |  |
|                             | Separate fill            | Not Available                                                                    |  |
|                             |                          |                                                                                  |  |

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Vehicle Line Model Year

MONTE CARLO

1998 Issued Revised (●)

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

Engine Description Engine Code

3.1 LITER V6 L82

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

| Induction type: carburetor, fuel           |                                                        | details of Fuel injection, Supercharger, Turbocharger, etc. if used.) |
|--------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------------|
| injection system, etc.                     |                                                        | Sequential Fuel Injection                                             |
| Manufacturer                               |                                                        | Delphi                                                                |
| Carburetor no. of barr                     | reis                                                   | Not Applicable                                                        |
| Idle A/F mix.                              |                                                        | PCM Controlled                                                        |
|                                            | Point of injection (no.)                               | Ports (Six)                                                           |
| Fuel                                       | Constant, pulse, flow                                  | Pulse                                                                 |
| injection                                  | Control (electronic, mech.)                            | Electronic                                                            |
|                                            | System pressure kPa (psi)                              | 300 (43.5)                                                            |
|                                            | Manual                                                 | Not Applicable                                                        |
| Idle speed-rpm<br>(spec. neutral or        |                                                        |                                                                       |
| drive and propane if used)                 | Automatic                                              | PCM Controlled                                                        |
|                                            |                                                        |                                                                       |
| Intake manifold heat or water thermostatic |                                                        | Fixed                                                                 |
| Air cleaner type                           |                                                        | Replaceable Paper Element                                             |
| Fuel filter (type/location)                |                                                        | Inline, Replaceable / Near Fuel Tank                                  |
|                                            | Type (elec. or mech.)                                  | Electric                                                              |
| Fuel                                       | Location (eng., tank)                                  | Tank                                                                  |
| pump                                       | Pressure range kPa (psi)                               | 0-300 (0 - 43.5)                                                      |
|                                            | Flow rate at regulated pressure L (gal)/hr @ kPa (psi) | 72 @ 300 (19 @ 43.5)                                                  |
|                                            | 1                                                      |                                                                       |

#### Fuel Tank

| ruei ialik                  |                          |                                                                                |  |
|-----------------------------|--------------------------|--------------------------------------------------------------------------------|--|
| Capacity refill L (gallons) |                          | 62.8 (16.6)                                                                    |  |
| Location (describe)         |                          | Underbody, Forward of Cross Member                                             |  |
| Attachment                  |                          | Two Steel Straps w/Four Vertical Fasteners                                     |  |
| Material & Mass             | kg. (weight lbs.)        | Stamped Zinc/Nickle Steel Upper & Lower w/Perimeter Seam Weld, 11.388 (25.065) |  |
| Filler                      | Location & material      | Left Rear Quarter Panel-Steel                                                  |  |
| pipe                        | Connection to tank       | Flexible Hose - Low Permeation                                                 |  |
| Fuel line (materia          | al)                      | Steel & Nylon - Low Permeation, High Conductivity Nylon                        |  |
| Fuel hose (mater            | ial)                     | Nylon - Low Permeation, High Conductivity                                      |  |
| Return line (material)      |                          | Steel & Nylon - Low Permeation, High Conductivity                              |  |
| Vapor line (material)       |                          | Steel & Nylon - Low Permeation                                                 |  |
|                             | Opt., n.a.               | Not Available                                                                  |  |
| Extended                    | Capacity L (gallons)     | Not Available                                                                  |  |
| range                       | Location & material      | Not Available                                                                  |  |
| tank                        | Attachment               | Not Available                                                                  |  |
|                             | Opt., n.a.               | Not Available                                                                  |  |
| Auxiliary<br>tank           | Capacity L (gallons)     | Not Available                                                                  |  |
|                             | Location & material      | Not Available                                                                  |  |
|                             | Attachment               | Not Available                                                                  |  |
|                             | Selector switch or valve | Not Available                                                                  |  |
|                             | Separate fill            | Not Available                                                                  |  |

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| Vehicle Line | MONTE | E CARLO |             |
|--------------|-------|---------|-------------|
| Model Year   | 1998  | Issued  | Revised (●) |

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

Engine Description Engine Code

| 3.8 LITER V6 |  |
|--------------|--|
| L36          |  |

#### **Vehicle Emission Control**

| Type (air injection, engine modifications, other) |                                                       |                                                                                            |                         | See Below                                |
|---------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------|------------------------------------------|
| Pump or pulse                                     |                                                       | **************************************                                                     | Not Applicable          |                                          |
|                                                   | Air                                                   | Driven by                                                                                  |                         | Not Applicable  Not Applicable           |
|                                                   | injection                                             | Air distribution                                                                           |                         | Not Applicable  Not Applicable           |
|                                                   |                                                       | (head, manifold                                                                            | , etc.)                 | Not Applicable                           |
|                                                   |                                                       | Point of entry                                                                             |                         | Not Applicable                           |
|                                                   |                                                       | Type (controlled orifice, other)                                                           | d flow, open            | Controlled Flow                          |
| Exhaust                                           | Exhaust<br>Gas                                        | Exhaust source                                                                             |                         | Exhaust Manifold                         |
| Emission<br>Control                               | Recircula<br>tion                                     | Point of exhaus<br>(spacer, carbure<br>manifold, other)                                    | etor,                   | Intake Manifold                          |
|                                                   |                                                       | Туре                                                                                       |                         | Three-Way Catalyst                       |
|                                                   |                                                       | Number of                                                                                  |                         | Two                                      |
|                                                   |                                                       | Locations(s)                                                                               |                         | Mounted to Underbody                     |
|                                                   | Catalytic                                             |                                                                                            |                         | 2.67 (163.0)                             |
|                                                   | Converte                                              | Substrate type                                                                             |                         | Ceramic/Monolith                         |
|                                                   |                                                       | Noble metal typ                                                                            | е                       | Platinum , Rhodium , Palladium           |
|                                                   |                                                       | Noble metal concentration (g                                                               |                         | 0.001346                                 |
|                                                   | Type (ventilates to atmosphe induction system, other) |                                                                                            | her)                    | Positive Ventilation To Induction System |
| Crankcase<br>Emission                             |                                                       | Energy source (manifold vacuum, carburetor, other)  Discharges to (intake manifold, other) |                         | Manifold Vacuum                          |
| Control                                           |                                                       |                                                                                            |                         | Intake Manifold                          |
|                                                   |                                                       | Air inlet (breather ca                                                                     | p, other)               | Throttle Body                            |
| Evaporative<br>Emission<br>Control                |                                                       | Vapor vented to<br>(crankcase,<br>canister, other)                                         | From<br>Fuel Tank<br>To | Canister                                 |
|                                                   |                                                       | From Carbureto                                                                             |                         | Not Applicable                           |
|                                                   |                                                       | Vapor storage provis                                                                       | sion                    | Canister                                 |
|                                                   |                                                       | Closed loop (yes/no)                                                                       | )                       | Yes                                      |
| system                                            |                                                       | Open loop (yes/no)                                                                         |                         | No                                       |

**Engine - Exhaust System** 

| Type (single, single with cross-over, dual, other)                                                                                |                                   | Dual, w/Crossover                              |
|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------|
| Muffler no. & type (reverse flow, straight thru, separate resonator) , Muffler volume (liters), Material & Mass kg. (weight lbs.) |                                   | Dual, Reverse Flow, 22.2L, 409 Stainless Steel |
| Resonator no., typ                                                                                                                | pe, & volume (liters)             | Round Bottle, Straight Thru, 2.4L              |
| Exhaust                                                                                                                           | Branch o.d., wall thickness       | Not Applicable                                 |
| pipe                                                                                                                              | Main o.d., wall thickness         | Not Applicable                                 |
|                                                                                                                                   | Material & Mass kg. (weight lbs.) | Not Applicable                                 |
| Intermediate pipe                                                                                                                 | o.d. & wall thickness             | 57.2 x 1.4 mm, (2.25 x .055 in.)               |
|                                                                                                                                   | Material & Mass kg. (weight lbs.) | 409 Stainless Steel                            |
| Tail<br>pipe                                                                                                                      | o.d. & wall thickness             | Two @ 57.2 x 1.4 mm (2.25 x .055 in.)          |
|                                                                                                                                   | Material & Mass kg. (weight lbs.) | 409 Stainless Steel - Painted Black            |

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| Vehicle Line | MONTE | CARLO  |             |  |
|--------------|-------|--------|-------------|--|
| Model Year   | 1998  | Issued | Revised (●) |  |

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

| Engine | Description |
|--------|-------------|
| Engine | Code        |

| 3.1 | LITER | V6 |  |  | <br>*************************************** |  |  |
|-----|-------|----|--|--|---------------------------------------------|--|--|
| L82 |       |    |  |  |                                             |  |  |

#### **Vehicle Emission Control**

| Type (air in                         |                   | ine                                                                             |                          | See Below                      |  |  |
|--------------------------------------|-------------------|---------------------------------------------------------------------------------|--------------------------|--------------------------------|--|--|
| modifications, other)  Pump or pulse |                   |                                                                                 | Not Applicable           |                                |  |  |
|                                      | A:-               |                                                                                 |                          | Not Applicable                 |  |  |
|                                      | Air injection     | Driven by                                                                       |                          | Not Applicable                 |  |  |
|                                      | Injection         | Air distribution<br>(head, manifold                                             | , etc.)                  | Not Applicable                 |  |  |
|                                      |                   | Point of entry                                                                  | ·····                    | Not Applicable                 |  |  |
|                                      |                   | Type (controlled<br>orifice, other)                                             |                          | Controlled Flow                |  |  |
| Exhaust                              | Exhaust<br>Gas    | Exhaust source                                                                  |                          | Exhaust Manifold               |  |  |
| Emission<br>Control                  | Recircula<br>tion |                                                                                 |                          |                                |  |  |
|                                      |                   |                                                                                 |                          | Intake Manifold                |  |  |
|                                      |                   | Туре                                                                            |                          | Three Way Catalyst             |  |  |
|                                      |                   | Number of                                                                       |                          | One                            |  |  |
|                                      |                   | Locations(s)                                                                    |                          | Underbody                      |  |  |
|                                      | Catalytic         |                                                                                 |                          | 2.67 (163.0)                   |  |  |
|                                      | Converte          | Substrate type                                                                  |                          | Monolith/Ceramic               |  |  |
|                                      |                   | Noble metal typ                                                                 | е                        | Platinum / Palladium / Rhodium |  |  |
|                                      |                   | Noble metal concentration (g/cm³)                                               |                          |                                |  |  |
|                                      |                   | Type (ventilates to atmosphere, induction system, other)                        |                          | Induction System               |  |  |
| Crankcase<br>Emission                |                   | Energy source (manifold vacuum, carburetor, other)                              |                          | Manifold Vacuum                |  |  |
| Control                              |                   | Discharges to (intake other)                                                    | e manifold,              | Intake Manifold                |  |  |
|                                      |                   | Air inlet (breather ca                                                          | p, other)                | Right Rear Rocker Arm Cover    |  |  |
| Evaporative                          |                   | Vapor vented to (crankcase, canister, other)  Vapor vented to From Fuel Tank To |                          | Canister                       |  |  |
| Emission<br>Control                  |                   |                                                                                 | From<br>Carburetor<br>To | Not Applicable                 |  |  |
|                                      |                   | Vapor storage provis                                                            |                          | Canister                       |  |  |
| Electronic                           |                   | Closed loop (yes/no)                                                            | )                        | Yes                            |  |  |
| system                               |                   | Open loop (yes/no)                                                              |                          | No                             |  |  |

Engine - Exhaust System

Ø

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| Type (single, single with cross-over, dual, other)                                                                               |                                   | Single w/Crossover                               |  |  |
|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------|--|--|
| Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.) |                                   | Single, Reverse Flow, 17.0L, 409 Stainless Steel |  |  |
| Resonator no., type                                                                                                              | , & volume (liters)               | Round Bottle, Straight Thru, 2.4L                |  |  |
| Exhaust                                                                                                                          | Branch o.d., wall thickness       | Not Applicable                                   |  |  |
| pipe                                                                                                                             | Main o.d., wall thickness         | Not Applicable                                   |  |  |
|                                                                                                                                  | Material & Mass kg. (weight lbs.) | Not Applicable                                   |  |  |
| Intermediate                                                                                                                     | o.d. & wall thickness             | 50.8 x 1.1 mm (2.0 x 0.043 in.)                  |  |  |
| pipe                                                                                                                             | Material & Mass kg. (weight lbs.) | 409 Stainless Steel                              |  |  |
| Tail                                                                                                                             | o.d. & wall thickness             | 50.8 x 1.1 mm (2.0 x 0.043 in.)                  |  |  |
| pipe                                                                                                                             | Material & Mass kg. (weight lbs.) | 409 Stainless Steel - Painted Black              |  |  |

| Λ | /\ | V | N | 1/ | 4 | S | p | е | C | if | ic | a | ti | O | ns | ; |
|---|----|---|---|----|---|---|---|---|---|----|----|---|----|---|----|---|
|---|----|---|---|----|---|---|---|---|---|----|----|---|----|---|----|---|

| Vehicle Line | MONTE | CARLO  |             |
|--------------|-------|--------|-------------|
| Model Year   | 1998  | lssued | Revised (●) |

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

| Engine Description Engine Code | 3.8L LITER V6<br>L36 |
|--------------------------------|----------------------|
|                                |                      |

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

| Manual 4-speed (manufacturer/country)      | Not Applicable           |
|--------------------------------------------|--------------------------|
| Manual 5-speed (manufacturer/country)      | Not Applicable           |
| Manual 6-speed (manufacturer/country)      | Not Applicable           |
| Automatic (manufacturer/country)           | Not Applicable           |
| Automatic overdrive (manufacturer/country) | Gm Powertrain Group, USA |
|                                            |                          |

#### Manual Transmission/Transaxle (NOT APPLICABLE) Number of forward speeds 1st 2nd 3rd 4th Gear ratios 5th Reverse Synchronous meshing (specify gears) Shift lever location Trans. case material & mass kg. (lbs.)\* Capacity L (pt.) Lubricant Type recommended

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

| Clutch manufacturer                           |                                                  |           |  |
|-----------------------------------------------|--------------------------------------------------|-----------|--|
| Clutch type (dry, wet; single, multiple disc) |                                                  |           |  |
| Linkage (hyd                                  | draulic, cable, rod, lever, other)               |           |  |
| Max. pedal e                                  |                                                  | Depressed |  |
| spring load)                                  | N (lbs.)                                         | Released  |  |
| Assist (sprin                                 | g, power/percent, nominal)                       |           |  |
| Type pressu                                   | re plate springs                                 |           |  |
| Total spring                                  | ioad (nominal) N (lbs.)                          |           |  |
|                                               | Facing mfgr. & material coding                   |           |  |
|                                               | Facing material & construction                   |           |  |
|                                               | Rivets per facing                                |           |  |
| Clutch                                        | Outside x inside dia. (nominal)                  |           |  |
| facing                                        | Total eff. area cm² (in.²)                       |           |  |
|                                               | Thickness (pressure plate side/fly wheel side)   |           |  |
|                                               | Rivet depth (pressure plate side/fly wheel side) |           |  |
|                                               | Engagement cushion method                        |           |  |
| Release bea                                   | aring type & method lub.                         |           |  |
| Torsional da                                  | imping method, springs, hysteresis               |           |  |

<sup>\*</sup> Includes shift linkage, lubricant, and clutch housing. If other specify.

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| Vehicle Line | MONTE CA | RLO    |            |   |
|--------------|----------|--------|------------|---|
| Model Year   | 1998     | Issued | Revised (● | ) |

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

| Engine | Description |
|--------|-------------|
| Engine | Code        |

| 3.1 | LITER | V6 |  |
|-----|-------|----|--|
| L82 |       |    |  |

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

| Manual 4-speed (manufacturer/country)      | Not Applicable          |
|--------------------------------------------|-------------------------|
| Manual 5-speed (manufacturer/country)      | Not Applicable          |
| Manual 6-speed (manufacturer/country)      | Not Applicable          |
| Automatic (manufacturer/country)           | Not Applicable          |
| Automatic overdrive (manufacturer/country) | Gm Powertrain Group,USA |
|                                            |                         |

#### Manual Transmission/Transaxle (NOT APPLICABLE)

|                                     |                             | (************************************** |
|-------------------------------------|-----------------------------|-----------------------------------------|
| Number of fe                        | orward speeds               |                                         |
|                                     | 1st                         |                                         |
|                                     | 2nd                         |                                         |
|                                     | 3rd                         |                                         |
| Gear                                | 4th                         |                                         |
| ratios                              | 5th                         |                                         |
|                                     | 6th                         |                                         |
|                                     | Reverse                     |                                         |
| Synchronous meshing (specify gears) |                             |                                         |
| Shift lever location                |                             |                                         |
| Trans. case                         | material & mass kg. (lbs.)* |                                         |
|                                     | Capacity L (pt.)            |                                         |
| Lubricant                           | Type recommended            |                                         |
|                                     |                             |                                         |
|                                     |                             |                                         |

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

| Clutch manufacturer                           |                                                  |           |  |
|-----------------------------------------------|--------------------------------------------------|-----------|--|
| Clutch type (dry, wet; single, multiple disc) |                                                  |           |  |
| Linkage (hyd                                  | draulic, cable, rod, lever, other)               |           |  |
| Max. pedal e                                  |                                                  | Depressed |  |
| spring load)                                  | N (lbs.)                                         | Released  |  |
| Assist (sprin                                 | g, power/percent, nominal)                       |           |  |
| Type pressu                                   | re plate springs                                 |           |  |
| Total spring                                  | load (nominal) N (lbs.)                          |           |  |
|                                               | Facing mfgr. & material coding                   |           |  |
|                                               | Facing material & construction                   |           |  |
|                                               | Rivets per facing                                |           |  |
| Clutch                                        | Outside x inside dia. (nominal)                  |           |  |
| facing                                        | Total eff. area cm² (in.²)                       |           |  |
|                                               | 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 |                                                  |           |  |

<sup>\*</sup> Includes shift linkage, lubricant, and clutch housing. If other specify.

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| Vehicle Line | MONTE | CARLO  |             |  |
|--------------|-------|--------|-------------|--|
| Model Year   | 1998  | Issued | Revised (●) |  |

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

| Engine | Description |
|--------|-------------|
| Engine | Code        |

| 3.8 LITER | V6 |  |
|-----------|----|--|
| L36       |    |  |

#### **Automatic Transmission/Transaxle**

| Trade Name                                                     |                                     | Hydra-Matic 4T65E Transaxle                                                                                              |
|----------------------------------------------------------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Type and special features (describe)                           |                                     | Four Speed, Front Wheel Drive, Electronically Controlled, Automatic Transaxle with Torque Converter Clutch and Overdrive |
| Shift mechani                                                  | CS                                  | Hydraulic Clutches/Electronic Controls                                                                                   |
|                                                                | Location (column, floor, other)     | Floor                                                                                                                    |
| Gear<br>selector                                               | Ltr./No. designation (e.g. PRND21)  | P-R-N-D D-2-1                                                                                                            |
|                                                                | Shift interlock (yes, no, describe) | Yes - Brake, Ignition Key                                                                                                |
|                                                                | 1st                                 | 2.92                                                                                                                     |
|                                                                | 2nd                                 | 1.57                                                                                                                     |
|                                                                | 3rd                                 | 1.00                                                                                                                     |
| Gear                                                           | 4th                                 | 0.70                                                                                                                     |
| ratios                                                         | 5th                                 | Not Applicable                                                                                                           |
|                                                                | 6th                                 | Not Applicable                                                                                                           |
|                                                                | Reverse                             | 2.39                                                                                                                     |
|                                                                | Final drive ratio                   | 3.29                                                                                                                     |
| Max. upshift vehicle speed -                                   |                                     | One - Two = 45 MPH                                                                                                       |
| drive range km/h (mph)                                         |                                     | Two - Three = 85 MPH                                                                                                     |
|                                                                | ngine speed RPM                     | 5700                                                                                                                     |
| Max. kickdow                                                   |                                     | Two - One = 35 MPH                                                                                                       |
| drive range kr                                                 |                                     | Three - Two = 122 (76)                                                                                                   |
| Min. overdrive                                                 | speed km/h (mph)                    | 67 (42)                                                                                                                  |
|                                                                | Туре                                | ECCC                                                                                                                     |
|                                                                | Torus design                        | Yes                                                                                                                      |
| Torque                                                         | Number of elements                  | Three                                                                                                                    |
| converter                                                      | Max. ratio at stall                 | 1.68                                                                                                                     |
|                                                                | Type of cooling (air, liquid)       | Liquid                                                                                                                   |
|                                                                | Nominal diameter                    | 245 mm (9.7 in.)                                                                                                         |
|                                                                | Capacity factor "K"*                | 163 k                                                                                                                    |
| Pump type                                                      |                                     | Variable Displacement Vane                                                                                               |
| 1                                                              | Capacity refill L (pt.)             | 12.7 (26.8), Dry Transmission                                                                                            |
| Lubricant                                                      | Type recommended                    | Dexron III                                                                                                               |
| Oil cooler (std., opt., N.A., internal, external, air, liquid) |                                     | Standard, Integral with Radiator                                                                                         |
| Transmission mass kg (lbs.) & case material**                  |                                     | 93 wet. Cast Aluminum                                                                                                    |

#### All Wheel / 4 Wheel Drive

#### (NOT APPLICABLE)

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

<sup>\*</sup> Input speed  $\div \sqrt{\text{torque}}$ 

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<sup>\*\*</sup> Dry weight including torque converter. If other, specify.

| Vehicle Line | MONTE | CARLO  |             |  |
|--------------|-------|--------|-------------|--|
| Model Year   | 1998  | Issued | Revised (●) |  |

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

| Engine        | Description |
|---------------|-------------|
| <b>Engine</b> | Code        |

| 3.1 LITER V6 |  |
|--------------|--|
| L82          |  |

#### **Automatic Transmission/Transaxle**

| Trade Name                                                     |                                     | Hydra-Matic 4T60-E (M13) Transaxle                                     |
|----------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------|
|                                                                |                                     | Four-Speed Automatic w/Torque Converter Clutch - ECCC                  |
| Type and spe                                                   | ecial features (describe)           |                                                                        |
| Shift mechani                                                  | ics                                 | Hydraulic Clutches/Electronic Controls                                 |
|                                                                | Location (column, floor, other)     | Column & Floor (Mechanical)                                            |
| Gear<br>selector                                               | Ltr./No. designation (e.g. PRND21)  | P-R-N- D -D-2-1                                                        |
|                                                                | Shift interlock (yes, no, describe) | Yes - Brake, Ignition Key                                              |
|                                                                | 1st                                 | 2.92                                                                   |
|                                                                | 2nd                                 | 1.57                                                                   |
|                                                                | 3rd                                 | 1.00                                                                   |
| Gear                                                           | 4th                                 | 0.70                                                                   |
| ratios                                                         | 5th                                 | Not Applicable                                                         |
|                                                                | 6th                                 | Not Applicable                                                         |
|                                                                | Reverse                             | 2.38                                                                   |
|                                                                | Final drive ratio                   | 3.29                                                                   |
| Max. upshift vehicle speed -<br>drive range km/h (mph)         |                                     | One - Two = 66 (41) Three - Four = 163 (101)<br>Two - Three = 124 (77) |
| Max. upshift e                                                 | engine speed RPM                    | 5600                                                                   |
| Max. kickdown speed - drive range km/h (mph)                   |                                     | Two - One = 48 (30) Four - Three: 151 (94) Three - Two = 113 (70)      |
| Min. overdrive                                                 | e speed km/h (mph)                  | 50 (31) Minimum 4-3                                                    |
|                                                                | Туре                                | ECCC                                                                   |
|                                                                | Torus design                        | Yes                                                                    |
| Torque                                                         | Number of elements                  | Three                                                                  |
| converter                                                      | Max. ratio at stall                 | 1.95                                                                   |
|                                                                | Type of cooling (air, liquid)       | Liquid                                                                 |
|                                                                | Nominal diameter                    | 245.0 mm                                                               |
|                                                                | Capacity factor "K"*                | 180                                                                    |
| Pump type                                                      |                                     | Variable Displacement Vane                                             |
|                                                                | Capacity refill L (qts.)            | 12.7 (13.4) Dry                                                        |
| Lubricant                                                      | Type recommended                    | Dexron III                                                             |
| Oil cooler (std., opt., N.A., internal, external, air, liquid) |                                     | Standard, Integral with Radiator                                       |
| Transmission mass kg (lbs.) & case material**                  |                                     | 81.0 (178.50), Cast Aluminum                                           |

#### All Wheel / 4 Wheel Drive

#### (NOT APPLICABLE)

| 7 (III TVIICOI / 4 TVIICOI ETITO                                                                        |                                  | (NOT / IT EIG/IBEE) |
|---------------------------------------------------------------------------------------------------------|----------------------------------|---------------------|
| Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.) |                                  |                     |
| Transfer                                                                                                | Manufacturer and model           |                     |
| case                                                                                                    | Type and location                |                     |
| Low-range ge                                                                                            | ar ratio                         |                     |
| System discor                                                                                           | nnect (describe)                 |                     |
|                                                                                                         | Type (bevel, planetary, w or w/o |                     |
| Center<br>differential                                                                                  | viscous bias, torsen, etc.)      |                     |
|                                                                                                         | Torque split (% front/rear)      |                     |
|                                                                                                         |                                  |                     |

<sup>\*</sup> Input speed  $\div \sqrt{\text{torque}}$ 

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<sup>\*\*</sup> Dry weight including torque converter. If other, specify.

| Vehicle Line | MONT | E CARLO |             |
|--------------|------|---------|-------------|
| Model Year   | 1998 | Issued  | Revised (●) |

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

| <b>Engine</b> | Description |
|---------------|-------------|
| <b>Engine</b> | Code        |

| 3.8 LITER V6 (231) |  |
|--------------------|--|
| L36                |  |

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

| Effective final drive ratio (or overall top gear ratio) |                 | rerall top gear ratio) | 3.29 |
|---------------------------------------------------------|-----------------|------------------------|------|
| Transfer ratio and method (chain, gear, etc.)           |                 | ain, gear, etc.)       |      |
|                                                         | Ring gear o.d.  |                        |      |
| Front No. of drive unit teeth                           | No. of          | Pinion                 |      |
|                                                         | teeth Ring gear |                        |      |

#### **Front Drive Unit**

| Description (integral to trans., etc.) |                         | , etc.)                 | Integral to Transmission |
|----------------------------------------|-------------------------|-------------------------|--------------------------|
| Limited slip differential (type)       |                         |                         | Not Applicable           |
|                                        |                         | Туре                    | Not Applicable           |
| Drive pinion                           |                         | Offset                  | Not Applicable           |
| No. of differe                         | ntial pinions           |                         | Two                      |
|                                        |                         | Adjustment (shim, etc.) | Not Applicable           |
| Pinion / diffe                         | rential                 | Bearing adjustment      | Not Applicable           |
| Driving whee                           | el bearing (type)       |                         | Sealed Ball Bearing      |
|                                        | Capacity L (p           | ot.)                    |                          |
| Lubricant                              | ricant Type recommended |                         |                          |
|                                        |                         |                         |                          |
|                                        |                         |                         |                          |
|                                        |                         |                         |                          |

#### **Axle Shafts - Front Wheel Drive**

| Manufacturer and number used              |                                                     |                                   |                    | Delphi Saginaw Steering Systems                    |
|-------------------------------------------|-----------------------------------------------------|-----------------------------------|--------------------|----------------------------------------------------|
|                                           |                                                     |                                   | Left               | Straight Solid Bar                                 |
| Type (straight, solid bar, tubular, etc.) |                                                     | Right                             | Straight Solid Bar |                                                    |
| Outer                                     |                                                     |                                   | Left               | Not Applicable                                     |
| diam. x                                   | Manual Trans                                        | axie                              | Right              | Not Applicable                                     |
| length* x                                 |                                                     |                                   | Left               | 27.8 x 323.0 mm                                    |
| wall                                      | Automatic trai                                      | nsaxle                            | Right              | 27.8 x 353.0 mm                                    |
| thickness                                 |                                                     |                                   | Left               | Not Available                                      |
|                                           | Optional trans                                      | axie                              | Right              | Not Available                                      |
|                                           | Туре                                                |                                   |                    | Not Applicable                                     |
| Slip                                      | Number of tee                                       | eth                               |                    | Not Applicable                                     |
| yoke                                      | Spline o.d.                                         |                                   |                    | Not Applicable                                     |
|                                           |                                                     |                                   | Inner              | Delphi Saginaw Steering Systems                    |
|                                           | Make and mfg                                        | j. no.                            | Outer              | Delphi Saginaw Steering Systems                    |
|                                           | Number used                                         | Number used                       |                    | Inboard & Outboard on Each Shaft Assembly          |
| Universal                                 |                                                     |                                   | Inner              | Tripot Joint, 32 Size 66.0 mm Plunge               |
| joints                                    | Type, size, pli                                     | Type, size, plunge                |                    | Rzeppa Joint; Fixed Center, 32 Size                |
|                                           | Attach (u-bolt                                      | Attach (u-bolt, clamp, etc.)      |                    | Retaining Ring (Inboard) Nut/Washer (Outboard)     |
|                                           |                                                     | Type (plain,                      |                    | Inner - Ball & Roller                              |
|                                           |                                                     | anti-friction)                    |                    | Outer - Ball                                       |
|                                           | Bearing                                             | Lubrication<br>(fitting, prepack) |                    | Prepacked                                          |
|                                           | Drive taken through (torque tube, arms or springs)  |                                   |                    | Wishbone Lower Control Arm, Upper MacPherson Strut |
| •                                         | Torque taken through (torque tube, arms or springs) |                                   |                    | Engine Mounting System                             |

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

| Vehicle Line | MONTE | CARLO  |             |  |
|--------------|-------|--------|-------------|--|
| Model Year   | 1998  | Issued | Revised (•) |  |

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

Engine Description Engine Code

| 3.1 LITER | V6 |  |
|-----------|----|--|
| L82       |    |  |

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

(AUTOMATIC TRANS - M13)

| Effective final drive ratio (or overall top gear ratio) |                                               | verall top gear ratio) | 3.33 (2.35)    |
|---------------------------------------------------------|-----------------------------------------------|------------------------|----------------|
| Transfer ratio                                          | Transfer ratio and method (chain, gear, etc.) |                        | 1.00 Chain     |
|                                                         | Ring gear o.d.                                |                        | Not Applicable |
| Front                                                   | No. of                                        | Pinion                 | Not Applicable |
| drive unit                                              | teeth                                         | Ring gear              | Not Applicable |

#### **Front Drive Unit**

| Description (integral to trans., etc.) |                            | etc.)                   | Planetary Final Drive Integral with Transmission |
|----------------------------------------|----------------------------|-------------------------|--------------------------------------------------|
| Limited slip of                        | lifferential (type)        |                         | Not Applicable                                   |
|                                        |                            | Туре                    | Not Applicable                                   |
| Drive pinion                           |                            | Offset                  | Not Applicable                                   |
| No. of differe                         | ntial pinions              |                         | Two                                              |
|                                        |                            | Adjustment (shim, etc.) | Not Applicable                                   |
| Pinion / diffe                         | rential                    | Bearing adjustment      | Not Applicable                                   |
| Driving whee                           | l bearing (type)           |                         |                                                  |
|                                        | Capacity L (p              | t.)                     | 8.0 (16.9)                                       |
| Lubricant                              | Lubricant Type recommended |                         | Dexron II                                        |
|                                        |                            |                         |                                                  |
|                                        |                            |                         |                                                  |
|                                        |                            |                         |                                                  |

#### **Axle Shafts - Front Wheel Drive**

| Manufacturer and number used              |                                                     |                                   |                    | Two Per Car                                                                                             |
|-------------------------------------------|-----------------------------------------------------|-----------------------------------|--------------------|---------------------------------------------------------------------------------------------------------|
|                                           |                                                     |                                   | Left               | Straight Solid Bar                                                                                      |
| Type (straight, solid bar, tubular, etc.) |                                                     | Right                             | Straight Solid Bar |                                                                                                         |
| Outer                                     |                                                     |                                   | Left               | Not Applicable                                                                                          |
| diam. x                                   | Manual Trans                                        | Manual Transaxle                  |                    | Not Applicable                                                                                          |
| length* x                                 |                                                     |                                   | Left               |                                                                                                         |
| wall                                      | Automatic tra                                       | insaxle                           | Right              |                                                                                                         |
| thickness                                 | 0.11                                                |                                   | Left               |                                                                                                         |
|                                           | Optional tran                                       | saxie                             | Right              |                                                                                                         |
|                                           | Туре                                                |                                   |                    |                                                                                                         |
| Slip                                      | Number of te                                        | Number of teeth                   |                    |                                                                                                         |
| yoke                                      | Spline o.d.                                         |                                   |                    |                                                                                                         |
|                                           |                                                     |                                   | Inner              | Delphi Saginaw Steering Systems                                                                         |
|                                           | Make and mf                                         | g. no.                            | Outer              | Delphi Saginaw Steering Systems                                                                         |
|                                           | Number used                                         | Number used                       |                    | Four, Two on Each Shaft                                                                                 |
| Universal                                 |                                                     |                                   | Inner              | Tripot Joint, 27 Size 66.0 mm Plunge                                                                    |
| joints                                    | Type, size, p                                       | lunge                             | Outer              | Rzeppa Joint; Fixed, 27 Size                                                                            |
|                                           | Attach (u-bol                                       | Attach (u-bolt, clamp, etc.)      |                    | Inboard Joint - Snap Ring, Outboard Joint (Nut/Washer - Clamping)                                       |
|                                           |                                                     | Type (plain,<br>anti-friction)    |                    | Inboard Joint: Ball Bearing, Needle Roller Bearing (Anti-Friction Bearing) Outboard Joint: Ball Bearing |
|                                           | Bearing                                             | Lubrication<br>(fitting, prepack) |                    | Prepacked                                                                                               |
|                                           | Drive taken through (torque tube, arms or springs)  |                                   |                    | Wishbone Lower Control Arm, Upper Macpherson Strut                                                      |
|                                           | Torque taken through (torque tube, arms or springs) |                                   |                    | Engine Mounting System                                                                                  |

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

| Vehicle Line | MONTE        | CARLO  |             |
|--------------|--------------|--------|-------------|
| Model Year   | 19 <b>98</b> | Issued | Revised (●) |

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

Model Code/Description And/Or Engine Code/Description

| 2 0 LITED VC |  |
|--------------|--|
| 3.8 LITER V6 |  |
|              |  |
| L36          |  |
| 200          |  |
|              |  |

**Suspension - General Including Electronic Controls** 

|                     | Standard/                | optional/not available              | Not Available                                                           |
|---------------------|--------------------------|-------------------------------------|-------------------------------------------------------------------------|
|                     | Manual/automatic control |                                     | Not Available                                                           |
|                     | Type (air/h              | nydraulic)                          | Not Available                                                           |
| Car                 | Primary/as               | ssist spring                        | Not Available                                                           |
| leveling            |                          | 4 wheel leveling                    | Not Available                                                           |
|                     | Single/dua               | al rate spring                      | Not Available                                                           |
|                     | Single/dua               | al ride heights                     | Not Available                                                           |
|                     | Provision                | for jacking                         | Body Rails, Under Rocker Panels; Jack Pad at Center of Rear Crossmember |
|                     | Standard/d               | option/not available                | Not Available                                                           |
|                     | Manual/au                | tomatic control                     | Not Available                                                           |
| Shock               | Number of                | damping rates                       | Not Available                                                           |
| absorber<br>damping |                          | tuation (manual/<br>otor/air, etc.) | Not Available                                                           |
| controls            |                          | Lateral acceleration                | Not Available                                                           |
|                     |                          | Deceleration                        | Not Available                                                           |
|                     | Sensors                  | Acceleration                        | Not Available                                                           |
|                     |                          | Road surface                        | Not Available                                                           |
| Shock               | Туре                     |                                     | MacPherson Strut Front, Tubular Rear                                    |
| absorber            | Make                     |                                     | Delphi Chassis Systems                                                  |
| (front &            | Piston diar              | meter                               | 35.0 mm (1.38 in.)                                                      |
| rear)               | Rod diameter             |                                     | 25.0 mm (1.00 in.)                                                      |

## **Suspension - Front**

|             |                                                                                 | MacPherson Strut with Coil Springs, One-Piece "A"            |  |
|-------------|---------------------------------------------------------------------------------|--------------------------------------------------------------|--|
| Type and de | escription                                                                      | Configuration Lower Control Arms                             |  |
|             | Full jounce (define load condition)                                             | 78.0 mm (3.07 in.)                                           |  |
| Travel      | Full rebound                                                                    | 95.0 mm (3.74 in.)                                           |  |
|             | Type (coil, leaf, other & material)                                             | Coil                                                         |  |
|             | Insulators (type & material)                                                    | Rubber                                                       |  |
| Spring      | Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter) | Coil: 200.3 mm (7.89 in.); 173.0 mm (6.81 in.)               |  |
|             | Spring rate N/mm (lb./in.)                                                      | 23.5 (134.2)                                                 |  |
|             | Rate at wheel N/mm (lb./in.)                                                    | 26.8 (153.0)                                                 |  |
|             | Type (link, linkless, frameless)                                                | Linkless                                                     |  |
| Stabilizer  | Material & O.D. bar/tube, wall thickness                                        | Steel, 34.0 mm (1.34 in.) - Hollow (Wall Thickness = 5.1 mm) |  |

## Suspension - Rear

|                  | Type and description                                                            |                             | Tri-Link Independent MacPherson Strut with Coil Springs          |
|------------------|---------------------------------------------------------------------------------|-----------------------------|------------------------------------------------------------------|
| Type and de      |                                                                                 |                             | Large Lateral Links Attached to Body Cross Member, Trailing Arms |
|                  | Full joun                                                                       | ce (define load condition)  | 102.0 mm (4.02 in.)                                              |
| Travel           | Full rebound                                                                    |                             | 105.0 mm (4.13 in.)                                              |
|                  | Type (co                                                                        | il, leaf, other & material) | Coil                                                             |
|                  | Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter) |                             | Coil: 224.0 mm (8.8 in.); 137.0 mm (5.4 in.)                     |
|                  | Spring rate N/mm (lb./in.)                                                      |                             | 18.5 / 33.3 Variable Rate                                        |
| Spring           | Rate at v                                                                       | vheel N/mm (lb./in.)        | TBD                                                              |
|                  | Insulator                                                                       | s (type & material)         | Rubber                                                           |
|                  | If                                                                              | No. of leaves               |                                                                  |
|                  | leaf                                                                            | Shackle (comp. or tens.)    |                                                                  |
|                  | Type (link, linkless, frameless)                                                |                             | Link                                                             |
| Stabilizer       | Material & O.D. bar/tube, wall thickness                                        |                             | Steel, 20.0 mm (0.79 in.) Solid                                  |
| Track bar (type) |                                                                                 |                             | Not Applicable                                                   |

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| Vehicle Line | MONTE | CARLO  |             |
|--------------|-------|--------|-------------|
| Model Year   | 1998  | Issued | Revised (●) |

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

Model Code/Description And/Or Engine Code/Description

| 3.1 LITER V6 |  |
|--------------|--|
| L82          |  |
|              |  |

## **Suspension - General Including Electronic Controls**

|                     | Standard/optional/not available |                      | Not Available                                                           |
|---------------------|---------------------------------|----------------------|-------------------------------------------------------------------------|
|                     | Manual/automatic control        |                      | Not Available                                                           |
|                     | Type (air/h                     | ydraulic)            | Not Available                                                           |
| Car                 | Primary/as                      | sist spring          | Not Available                                                           |
| leveling            | Rear only/                      | 4 wheel leveling     | Not Available                                                           |
|                     | Single/dua                      | I rate spring        | Not Available                                                           |
|                     | Single/dua                      | I ride heights       | Not Available                                                           |
|                     | Provision f                     | or jacking           | Body Rails, Under Rocker Panels; Jack Pad at Center of Rear Crossmember |
|                     | Standard/d                      | ption/not available  | Not Available                                                           |
|                     | Manuai/au                       | tomatic control      | Not Available                                                           |
| Shock               | Number of                       | damping rates        | Not Available                                                           |
| absorber<br>damping |                                 | tuation (manual/     | Not Available                                                           |
|                     | electric mo                     | otor/air, etc.)      |                                                                         |
| controls            |                                 | Lateral acceleration | Not Available                                                           |
|                     |                                 | Deceleration         | Not Available                                                           |
|                     | Sensors                         | Acceleration         | Not Available                                                           |
|                     |                                 | Road surface         | Not Available                                                           |
| Shock               | Туре                            |                      | MacPherson Strut Front, MacPherson Strut Rear                           |
| absorber            | Make                            |                      | Delphi Chassis Systems                                                  |
| (front &            | Piston diameter                 |                      | 35.0 mm (1.38 in.)                                                      |
| rear)               | Rod diameter                    |                      | 25.0 mm (1.00 in.)                                                      |

#### **Suspension - Front**

| Type and description |                                                                                 | MacPherson Strut with Coil Springs, One-Piece "A" Configuration Lower Control Arms |  |
|----------------------|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--|
|                      | Full jounce (define load condition)                                             | 78.0 mm (3.07 in.)                                                                 |  |
| Travel               | Full rebound                                                                    | 95.0 mm (3.74 in.)                                                                 |  |
|                      | Type (coil, leaf, other & material)                                             | Coil                                                                               |  |
|                      | Insulators (type & material)                                                    | Rubber                                                                             |  |
| Spring               | Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter) | Coil: 200.3 mm (7.89 in.); 173.0 mm (6.81 in.)                                     |  |
|                      | Spring rate N/mm (lb./in.)                                                      | 23.5 (134.2)                                                                       |  |
|                      | Rate at wheel N/mm (lb./in.)                                                    | 26.8 (153.0)                                                                       |  |
|                      | Type (link, linkless, frameless)                                                | Linkless                                                                           |  |
| Stabilizer           | Material & O.D. bar/tube, wall thickness                                        | Steel, 32.0 mm (1.26 in.) - Hollow; Wall thickness = 4.8 mm                        |  |

## Suspension - Rear

| Type and description |                                                                                 |                             | Tri-Link Independent MacPherson Strut with Coil Springs Lateral Links Attached to Body Cross Member, Trailing Arms |
|----------------------|---------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------|
|                      | Full jound                                                                      | ce (define load condition)  | 102.0 mm (4.02 in.)                                                                                                |
| Travel               | Full rebo                                                                       | und                         | 105.0 mm (4.13 in.)                                                                                                |
|                      | Type (co                                                                        | il, leaf, other & material) | Coil                                                                                                               |
|                      | Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter) |                             | Coil: 224.0 mm (8.8 in.); 137.0 mm (5.4 in.)                                                                       |
| Spring               | Spring ra                                                                       | ite N/mm (lb./in.)          | 18.5 / 33.3 Variable Rate                                                                                          |
|                      | Rate at v                                                                       | vheel N/mm (lb./in.)        | TBD                                                                                                                |
|                      | Insulator                                                                       | s (type & material)         | Rubber                                                                                                             |
|                      | lf                                                                              | No. of leaves               |                                                                                                                    |
|                      | leaf                                                                            | Shackle (comp. or tens.)    |                                                                                                                    |
|                      | Type (link, linkless, frameless)                                                |                             | Link                                                                                                               |
| Stabilizer           | Material & O.D. bar/tube, wall thickness                                        |                             | Steel, 16.0 mm (0.63 in.) Solid                                                                                    |
| Track bar (ty        | Track bar (type)                                                                |                             | Not Applicable                                                                                                     |

| Vehicle Line | MONT | E CARLO |             |
|--------------|------|---------|-------------|
| Model Year   | 1998 | Issued  | Revised (●) |

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

| Model Code/Description And/Or |
|-------------------------------|
| Engine Code/Description       |

| ALL |  |  |  |
|-----|--|--|--|
|     |  |  |  |

## Tires And Wheels (Standard)

|        | Size (service d                        | escription)               | P205/70R15 AL2 BW (95 S)                       |
|--------|----------------------------------------|---------------------------|------------------------------------------------|
|        | · · · · · · · · · · · · · · · · · · ·  |                           |                                                |
|        | Type (bias, rad                        | lial, steel, nylon, etc.) | Steel Belted Radial (Two Ply)                  |
| Tires  | Inflation pressu                       | " ′                       | 205 (30)                                       |
|        | recommended vehicle load               | max.<br>Rear kPa (psi)    | 205 (30)                                       |
|        | Rev./mile at 70                        | km/h (45 mph)             | 492 Rev/Km                                     |
|        | Type & materia                         | al .                      | Stamped Steell                                 |
|        | Rim (size & fla                        | nge type)                 | 15 x 6                                         |
|        | Wheel offset                           |                           | 42.0 mm (1.65 in.)                             |
| Wheels |                                        | Type (bolt or stud & nut) | Stud (M12 x 1.5)                               |
|        | Attachment                             | Circle diameter           | 115 mm (4.52 in.)                              |
|        |                                        | Number & size             | Five & M12                                     |
| _      | Tire and wheel                         |                           | Compact Spare T125/70D16 16 x 4 Wheel          |
| Spare  | Storage position & location (describe) |                           | Horizontal, Under Trunk Compartment Load Floor |

## **Tires And Wheels (Optional)**

| Thes And Wheels (Optional)                                                                                                     |                                  |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Tire size (service description)                                                                                                | P215/65R15 - Police              |
| Type (bias, radial, steel, nylon, etc.)                                                                                        | Steel Belted Radial              |
| Wheel (type & material)                                                                                                        | Stamped Steel                    |
| Rim (size, flange type and offset)                                                                                             | 15 x 6 (42.0 mm Offset)          |
| Tire size (service description)                                                                                                |                                  |
| Type (bias, radial, steel, nylon, etc.)                                                                                        |                                  |
| Wheel (type & material)                                                                                                        |                                  |
| Rim (size, flange type and offset)                                                                                             |                                  |
| Tire size (service description)                                                                                                | P225/60R16 AL2 BW (97 S)         |
| Type (bias, radial, steel, nylon, etc.)                                                                                        | Steel Belted Radial              |
| Wheel (type & material)                                                                                                        | Cast Aluminum                    |
| Rim (size, flange type and offset)                                                                                             | 16 x 6.5 (38.0 mm Offset)        |
| Tire size (service description)                                                                                                | P225/60R16 - AL3 BL - Z34 (97 H) |
| Type (bias, radial, steel, nylon, etc.)                                                                                        | Steel Belted Radial              |
| Wheel (type & material)                                                                                                        | Cast Aluminum                    |
| Rim (size, flange type and offset)                                                                                             | 16 x 6.5 (38.0 mm 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        |                                          | Single Stroke, Foot Pedal Application, Push to Release |
|------------------------|------------------------------------------|--------------------------------------------------------|
| Location of control    |                                          | Left of Driver's Left Knee                             |
| Operates on            |                                          | Rear Service Brakes                                    |
|                        | Type (internal or external)              |                                                        |
| If separate            | Drum diameter                            |                                                        |
| from service<br>brakes | Lining size (length x width x thickness) |                                                        |

Vehicle Line MONTE CARLO

Model Year 1998

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

Model Code/Description And/Or **Engine Code/Description** 

| ALL |  |  |  |
|-----|--|--|--|
|     |  |  |  |

Revised (•)

#### Brakes - Service

| Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Brakes -      | Service       |                                   |                                         |      |                                                                        |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|-----------------------------------|-----------------------------------------|------|------------------------------------------------------------------------|--|--|
| Manufacturer and brake   Front (disc or drum)   Disc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Description   |               |                                   | • • • • • • • • • • • • • • • • • • • • |      |                                                                        |  |  |
| Special Cont. n.a.    Rear cidisc or drum    DRUM (3.11); DISC (3.81)   Valving type (prroportion, delay, metering, other)   Proportioning   Booster type (remote, integral, vac., flyd, etc.)   Vacuum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ·             |               |                                   |                                         |      |                                                                        |  |  |
| Value   Valu | Manufactur    | er and brai   | er and brake Front (disc or drum) |                                         | ···  |                                                                        |  |  |
| Power brake (latd., opt., n. a.)   Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | type (std., c | pt., n.a.)    |                                   | Rear (disc or drun                      | ר)   |                                                                        |  |  |
| Source (name, pump, etc.)   Vacuum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Valving type  | e (proportio  | n, delay,                         | metering, other)                        |      | Proportioning                                                          |  |  |
| Not Applicable   Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Power brak    | e (std., opt. | , n.a.)                           |                                         |      | Standard                                                               |  |  |
| Reservoir (volume in.*)   Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Booster typ   | e (remote, i  | ntegral, v                        | vac., hyd., etc.)                       |      | Vacuum                                                                 |  |  |
| Pump-typecletics, gear or bet driven)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               | Source        | (inline, p                        | pump, etc.)                             |      |                                                                        |  |  |
| Traction   Operational speed range   Not Aplicable   Not Applicable   Not Applica  | Vacuum        | Reserv        | oir (volui                        | me in.³)                                |      | Not Applicable                                                         |  |  |
| Type (engine or brake intervention)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               | Pump-         | type(elec                         | c., gear or belt driven)                |      | Not Applicable                                                         |  |  |
| Frontival (star, pt, n.a.)   Standard - All Models                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | Operat        | ional spe                         | eed range                               |      | Not Aplicable                                                          |  |  |
| Manufacturer   Delphi Chassis Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | assist        | Type (        | engine or                         | r brake intervention)                   |      | Not Aplicable                                                          |  |  |
| Type (electronic, mech.)   Electronic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               | Front/r       | ear (std.,                        | opt., n.a.)                             |      | Standard - All Models                                                  |  |  |
| Number sensors or circuits   Four Separate Brake Lines/Three Controlled Channels (LF, RF, RR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | Manufa        | acturer                           |                                         |      | Delphi Chassis Systems                                                 |  |  |
| Number antilock hydraulic circuits   Four Separate Brake Lines/Three Controlled Channels (LF, RF, RR)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |               | Type (        | electronic                        | c, mech.)                               |      | Electronic                                                             |  |  |
| Integral or add-on system                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | Numbe         | er sensor                         | s or circuits                           |      | Four                                                                   |  |  |
| Yaw control (yes, no)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | device        | Numbe         | er antilocl                       | k hydraulic circuits                    |      | Four Separate Brake Lines/Three Controlled Channels (LF, RF, RR)       |  |  |
| Hyd. power source (elec., vac., mtr., pwr., stry)   Not Applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               | Integra       | l or add-                         | on system                               |      | Add-On Mounted to Master Cylinder                                      |  |  |
| Frective area cm² (in²)*   Four Wheels 286.1 cm² (44.4 in.²)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |               | Yaw co        | ontrol (ye                        | s, no)                                  |      | Yes                                                                    |  |  |
| Since   Sin  |               | Hyd. po       | wer source                        | e (elec., vac., mtr., pwr., st          | rg.) | Not Applicable                                                         |  |  |
| Swept area cm² (in²)*** (F/R)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Effective a   | rea cm² (in.  | <sup>2</sup> )*                   |                                         |      | Four Wheels 286.1 cm <sup>2</sup> (44.4 in. <sup>2</sup> )             |  |  |
| Rotor   Front   Front wheel   Front wheel  |               |               |                                   | F/R)                                    |      | F: 167.7 (26.0); R: 118.4 cm <sup>2</sup> (18.4 in. <sup>2</sup> )     |  |  |
| Rotor   Finch cases   Finch   Finch  | Swept area    | cm² (in.²)*   | ** (F/R)                          |                                         |      | F: 1165.2 (180.6); R: 1034.0 cm <sup>2</sup> (160.3 in. <sup>2</sup> ) |  |  |
| Thickness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | Outer         | working c                         | diameter                                | F/R  | F: 282.5 mm (11.1 in.); R: 276.0 mm (10.9 in.)                         |  |  |
| Material & type (vented/solid)   F/R   F.   20.5   min (1.04 in.), N.   11.0   min (1.05 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               | Inner v       | ner working diameter F/R          |                                         | F/R  | .1 , , , , , , , , , , , , , , , , , , ,                               |  |  |
| Diameter & width   F/R   225.0 x 45.0 mm (8.86 x 1.77 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rotor         | Thickn        | Thickness F/R                     |                                         | F/R  |                                                                        |  |  |
| Type and material   F/R   Composite Solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |               | Materia       | al & type                         | (vented/solid)                          | F/R  | F: Composite Vented; R: Composite Solid                                |  |  |
| Figure and trace   Figure    | _             | Diame         | ter & wid                         | th                                      | F/R  | 225.0 x 45.0 mm (8.86 x 1.77 in.)                                      |  |  |
| Master cylinder   Bore/stroke   F/R   Bore: 24.0 mm (0.94 in.); Stroke: 35.5 mm (1.40 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Drum          | Type a        | nd mater                          | rial                                    | F/R  | Composite Solid                                                        |  |  |
| Pedal arc ratio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Wheel cylin   | der bore      |                                   |                                         |      | F: 42.0 mm (1.65 in.); R: 38.0 mm (1.50 in.)                           |  |  |
| Line press. at 445 N (100 lb.) pedal load [kPa (psi)]   13600 kPa (1972 psi)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Master cylin  | nder          | Bo                                | ore/stroke                              | F/R  | Bore: 24.0 mm (0.94 in.); Stroke: 35.5 mm (1.40 in.)                   |  |  |
| Bonded or riveted (rivets/seg.)   Integrally Molded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Pedal arc ra  | atio          |                                   |                                         |      | 3.5:1                                                                  |  |  |
| Bonded or riveted (rivets/seg.)   Integrally Molded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Line press.   | at 445 N (1   | 00 lb.) pe                        | edal load [kPa (psi)]                   |      | 13600 kPa (1972 psi)                                                   |  |  |
| Rivet Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Lining clear  | rance         |                                   |                                         | F/R  | 0/0 mm                                                                 |  |  |
| Front wheel   Manufacturer   Delphi Chassis Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |               |               | Bonde                             | ed or riveted (rivets/seg               | .)   | Integrally Molded                                                      |  |  |
| Front wheel                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |               |               | Rivet                             | Size                                    |      |                                                                        |  |  |
| Material   Semi-Metallic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |               |                                   |                                         |      | Delphi Chassis Systems                                                 |  |  |
| Serti-Metallic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               | 1             | Lining                            | code *****                              |      | DM130EE                                                                |  |  |
| Size   Secondary or in-board   119.4 x 38.1 mm / (4.7 x 1.5 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               | wheel         | Materi                            | al                                      |      | Semi-Metallic                                                          |  |  |
| Shoe thickness (no lining)   4.98 mm (0.196 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |               | ****                              | Primary or out-board                    |      | 119.4 x 38.1 mm / (4.7 x 1.5 in.)                                      |  |  |
| Bonded or riveted (rvts/seg.)   Integrally Molded (Disc); Riveted (Drum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |               |               | Size                              | Secondary or in-boar                    | ď    | 119.4 x 38.1 mm / (4.7 x 1.5 in.)                                      |  |  |
| National Content of the Content of | lining        |               | Shoe                              | thickness (no lining)                   |      | 4.98 mm (0.196 in.)                                                    |  |  |
| Lining code *****   DM131 EE (Disc); 245 FF (Drum)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |               |               | Bonde                             | ed or riveted (rvts/seg.)               |      | Integrally Molded (Disc); Riveted (Drum)                               |  |  |
| Wheel         Material         Semi-Metallic           *****         Primary or out-board         91.0 x 33.5 x 9.0 mm (3.58 x 1.32 x .35 in.)           Size         Secondary or in-board         91.0 x 33.5 x 9.0 mm (3.58 x 1.32 x .35 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |               |               |                                   |                                         |      | Delco Chassis Division                                                 |  |  |
| Serin-Wetalite     Serin-Wetalite                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |               |               | Lining                            | code *****                              |      | DM131 EE (Disc); 245 FF (Drum)                                         |  |  |
| Size Secondary or in-board 91.0 x 33.5 x 9.0 mm (3.58 x 1.32 x .35 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |               | wheel         |                                   |                                         |      | Semi-Metallic                                                          |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               | ****                              | Primary or out-board                    |      | 91.0 x 33.5 x 9.0 mm (3.58 x 1.32 x .35 in.)                           |  |  |
| Shoe thickness (no lining) 5.0 mm (0.197 in.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |               |               | Size                              | Secondary or in-boar                    | rd   | 91.0 x 33.5 x 9.0 mm (3.58 x 1.32 x .35 in.)                           |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |               |               | Shoe                              | thickness (no lining)                   |      | 5.0 mm (0.197 in.)                                                     |  |  |

<sup>\*\*</sup> Includes rivet holes, grooves, chamfers, etc. \* Excludes rivet holes, grooves, chamfers, etc.

<sup>\*\*\*</sup> Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)

<sup>(</sup>Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

Size for drum brakes includes length x width x thickness.

\*\*\*\*\*Manufacturer I.D., catalog for formulation designation and coefficient of friction \*\*\*\* Size for drum brakes includes length x width x thickness. classification.

| Vehicle Line | MONT | E CARLO |             |
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## **METRIC (U.S. Customary)**

| Model Code/Description And/O | r |
|------------------------------|---|
| Engine Code/Description      |   |

| ALL |  |  |  |
|-----|--|--|--|
|     |  |  |  |

## **Wheel Alignment**

|           |               | Caster (deg.)                 | 1.8 ± 0.5           | · · · · · · · · · · · · · · · · · · · |
|-----------|---------------|-------------------------------|---------------------|---------------------------------------|
|           | Service       | Camber (deg.)                 | 0.7 ± 0.5           |                                       |
| Front     | checking      | Toe-in outside track mm (in.) | $0.0 \pm 0.20$      |                                       |
| wheel at  |               | Caster (deg.)                 | Pre-set             |                                       |
| curb mass | Service       | Camber (deg.)                 | 0.7                 |                                       |
| (wt.)     | reset*        | Toe-in mm (in.)               | 0.0                 |                                       |
|           | Periodic      | Caster (deg.)                 |                     |                                       |
|           | M.V. in-      | Camber (deg.)                 |                     |                                       |
|           | spection      | Toe-in mm (in.)               |                     |                                       |
|           | Service       | Camber (deg.)                 | 15" Whl0.35 ± 0.5   | 16 " Whl0.45 ± 0.5                    |
| Rear      | checking      | Toe-in outside track (deg.)   | 0.0 ± 0.3 (Sum Toe) |                                       |
| wheel at  | Service       | Camber (deg.)                 | 15" Whl0.35 ± 0.5   | 16 " Whl0.45 ± 0.5                    |
| curb mass | b mass reset* | Toe-in (deg.)                 | 0.0 ± 0.3 (Sum Toe) |                                       |
| (wt.)     | Periodic      | Camber (deg.)                 |                     |                                       |
|           | M.V. insp.    | Toe-in mm (in.)               |                     |                                       |

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

## **Electrical - Instruments and Equipment**

| Speed-                                             | Type (analog, digital, std., opt.)     |                                                 | Analog                              |
|----------------------------------------------------|----------------------------------------|-------------------------------------------------|-------------------------------------|
| ometer                                             | Trip odometer (std., opt., n.a.)       |                                                 | Not Available                       |
|                                                    | Standard, optiona                      | l, not available                                | Not Available                       |
|                                                    | Туре                                   | Secondary, opto-<br>electronic                  | Not Available                       |
| Head-up                                            | Speedometer                            | Digital                                         | Not Available                       |
| display                                            | Status/warning indicators              | Turn signals, high beam, low fuel, check gauges | Not Available                       |
|                                                    | Brightness<br>control                  | Day / night mode,<br>adjustable                 | Not Available                       |
| EGR maintenar                                      | nce indicator                          |                                                 | Not Available                       |
| Charge                                             | Туре                                   |                                                 | Not Available                       |
| indicator                                          | Warning device (li                     | ight, audible)                                  | Tell-Tale Light                     |
| Temperature                                        | Туре                                   |                                                 | Not Available                       |
| indicator                                          | Warning device (I                      | ight, audible)                                  | Tell-Tale Light                     |
| Oil pressure                                       | Туре                                   |                                                 | Not Available                       |
| indicator                                          | Warning device (I                      | ight, audible)                                  | Tell-Tale Light                     |
| Fuel                                               | Туре                                   |                                                 | Analog                              |
| indicator                                          | Warning device (light, audible)        |                                                 | Not Available                       |
|                                                    | Type (standard)                        |                                                 | Depressed Park / Pulse Wiper        |
| Windshield                                         | Type (optional)                        |                                                 | Not Available                       |
| wiper                                              | Blade length                           |                                                 | 560.0 mm (22.0 in.)                 |
|                                                    | Swept area cm² (in.²)                  |                                                 | 7558.3 (1171.5)                     |
|                                                    | Type (standard)                        |                                                 | Wet-Arm System                      |
| Windshield                                         | Type (optional)                        |                                                 | Not Available                       |
| washer                                             | Fluid level indicator (light, audible) |                                                 | Not Available                       |
| Rear window wiper, wiper/washer (std., opt., n.a.) |                                        | std., opt., n.a.)                               | Not Available                       |
|                                                    | Туре                                   |                                                 | Vibrator                            |
| Horn Number used                                   |                                        |                                                 | Two                                 |
| PRNDL Odometer Other Tachometer                    |                                        |                                                 | Mechanical Mechanical Not Available |

| Vehicle Line | MONTE | CARLO  |
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## **METRIC (U.S. Customary)**

Model Code/Description And/Or Engine Code/Description

| ALL |  |  |
|-----|--|--|
|     |  |  |

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#### Steering

| Steering                                    |                                           |                                  |                |                                                    |
|---------------------------------------------|-------------------------------------------|----------------------------------|----------------|----------------------------------------------------|
| Manual (std., opt., n.a.)                   |                                           |                                  |                | Not Available                                      |
| Power (std., opt., n.a.)                    |                                           |                                  |                | Standard                                           |
| Speed-sensitive (std., opt., n.a.)          |                                           |                                  |                | Not Available                                      |
| 4-wheel steeri                              | ng (std., opt., n                         | .a.)                             |                | Not Available                                      |
|                                             |                                           | Туре                             |                | Tilt                                               |
| Adjustable steering wheel/column            |                                           | Manufac                          | cturer         | Delphi Saginaw Steering                            |
| (tilt, telescope                            | , ouler)                                  | (std., op                        | t., n.a.)      | Standard                                           |
| Wheel diamet                                |                                           | Manuai                           |                | Not Available                                      |
| (W9) SAE J11                                | 00                                        | Power                            |                | 380.0 mm                                           |
|                                             | Outside<br>front                          | Wall to v                        | wall (l. & r.) | Coupe: FE1 - 12.93 (42.42); F41 - 13.58 (44.55)    |
| Turning<br>diameter                         |                                           | Curb to                          | curb (l. & r.) | FE1 - 11.2 (36.7); F41 - 11.88 (39.0)              |
| m (ft.)                                     | Inside                                    | Wall to v                        | wall (l. & r.) | Not Available                                      |
|                                             | rear                                      | Curb to                          | curb (l. & r.) | 7.18 (23.6)                                        |
| Scrub Radius*                               |                                           |                                  |                | Base - 15.78 mm; Touring - 16.39; Sport - 24.05 mm |
|                                             |                                           | Туре                             |                | Not Available                                      |
|                                             | Gear                                      | Manufac                          |                | Not Available                                      |
| Manual                                      | Gear                                      | Ratios                           | Gear           | Not Available                                      |
|                                             |                                           |                                  | Overall        | Not Available                                      |
|                                             | No. wheel to                              |                                  |                | Not Available                                      |
|                                             | ,, ,                                      | Type (coaxial, elec. hyd., etc.) |                | Hydraulic                                          |
|                                             | Manufacture                               | anufacturer                      |                | Saginaw Division                                   |
|                                             | Coor                                      | Туре                             | ·y-            | End Take-Off Rack and Pinion                       |
| Power                                       | Gear                                      | Ratios                           | Gear           | 49.9 mm/Rev                                        |
|                                             |                                           |                                  | Overall        | 15.7:1                                             |
|                                             | Pump (drive                               | <u> </u>                         |                | Belt                                               |
|                                             | No. wheel to                              | No. wheel turns (stop to stop)   |                | P205/70R15-2.60 (FE1)<br>P225/60R16-2.26 (F41)     |
|                                             | Туре                                      |                                  |                | End Take-Off                                       |
| Linkage                                     | Location (front or rear of wheels, other) |                                  |                | Decr                                               |
|                                             | Tie rode (or                              |                                  |                | Rear<br>  Two                                      |
| Tie rods (one or two) Inclination at camber |                                           |                                  | dea )          | 13.4                                               |
| Steering                                    | montation a                               | Upper                            |                | Ball Bearing                                       |
| axis                                        | Bearings                                  | Lower                            |                | Ball Joint                                         |
|                                             | (type)                                    | Thrust                           |                |                                                    |
| Stooring spins                              |                                           | muot                             |                | Not Applicable  MacPherson Strut                   |
| Steering spindle/knuckle & joint type       |                                           |                                  |                | Macr Helson Strut                                  |

<sup>\*</sup> The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.
\*\* See Page 23.

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

| Engine | Description |
|--------|-------------|
| Engine | Code        |

| 3.8 LI | TER | V6 |  |
|--------|-----|----|--|
| L36    |     |    |  |

**Electrical - Supply System** 

|            | Manufacturer               | Delphi Energy & Engine Management Systems |
|------------|----------------------------|-------------------------------------------|
|            | Model, std., (opt.)        | SAE 78-690                                |
|            | Voltage                    | 12                                        |
| Battery    | Amps at 0° F. cold crank   | 690                                       |
|            | Minutes-reserve capacity   | 115                                       |
|            | Amps/hrs20 hr. rate        | 69                                        |
|            | Location                   | Engine Compartment                        |
|            | Manufacturer               | Delphi                                    |
|            | Rating (idle/max. rpm)     | 36/100 Amps                               |
| Alternator | Ratio (alt. crank/rev.)    | 2.98                                      |
|            | Output at idle (rpm, park) | 70 Amps w/AC on                           |
|            | Optional (type & rating)   | Not Applicable                            |
| Regulator  | Туре                       | Integral with Alternator                  |

**Electrical - Starting System** 

|       | Manufacturer                      | Delphi                                 |
|-------|-----------------------------------|----------------------------------------|
| Motor | Current drain -29 (-20) °C (°F)   | 400 Amps                               |
|       | Power rating kw (hp)              | 1.5 (2.0)                              |
| Motor | Engagement type                   | Solenoid Actuated, Positive Engagement |
| drive | Pinion engages from (front, rear) | Front                                  |

**Electrical - Ignition System** 

|             | - igintion of                   | ,                  | Standard               |
|-------------|---------------------------------|--------------------|------------------------|
|             | Electronic (s                   | std., opt., n.a.)  | Standard               |
| Type        | Other (specify)                 |                    | Not Available          |
|             | Manufacture                     | er                 | Delphi                 |
|             | Model                           |                    | Direct Ignition        |
| Coil        |                                 | Engine stopped - A | Less than 100 mA       |
|             | Current                         | Engine idling - A  | Less than 1.5 A (Avg.) |
|             | Manufacturer                    |                    | Delphi                 |
|             | Model                           |                    | R44LTSM6               |
| Spark       | Thread (mm)                     |                    | 14                     |
| plug        | Tightening torque N·m (lb. ft.) |                    | 9-20 (7-15)            |
|             | Gap                             |                    | 1.5 mm                 |
|             | Number per cylinder             |                    | One                    |
|             | Manufacture                     | er                 | Not Applicable         |
| Distributor | Model                           |                    | Not Applicable         |

**Electrical - Suppression** 

|                  | Generator - Internal Capacitor Suppression Ignition - Internal Resistor/Capacitor Networks |
|------------------|--------------------------------------------------------------------------------------------|
| Locations & type |                                                                                            |
|                  |                                                                                            |

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

Engine Description Engine Code

3.1 LITER V6 L82

**Electrical - Supply System** 

|            | Manufacturer               | Delphi Energy & Engine Management Systems |
|------------|----------------------------|-------------------------------------------|
|            | Model, std., (opt.)        | SAE 78-600                                |
|            | Voltage                    | 12                                        |
| Battery    | Amps at 0° F. cold crank   | 600                                       |
|            | Minutes-reserve capacity   | 115                                       |
|            | Amps/hrs20 hr. rate        | 69                                        |
|            | Location                   | Engine Compartment                        |
|            | Manufacturer               | Delphi                                    |
|            | Rating (idle/max. rpm)     | 36/100 Amps                               |
| Alternator | Ratio (alt. crank/rev.)    | 2.75                                      |
|            | Output at idle (rpm, park) | 68 Amps                                   |
|            | Optional (type & rating)   | Not Applicable                            |
| Regulator  | Туре                       | Integral with Alternator                  |

**Electrical - Starting System** 

|       | Manufacturer                      | Delphi                                 |
|-------|-----------------------------------|----------------------------------------|
| Motor | Current drain -29 (-20) °C (°F)   | 325 Amps                               |
|       | Power rating kw (hp)              | 1.4 (1.9)                              |
| Motor | Engagement type                   | Solenoid Actuated, Positive Engagement |
| drive | Pinion engages from (front, rear) | Front                                  |

**Electrical - Ignition System** 

|             | Electronic (std., opt., n.a.)   |                    | Standard               |
|-------------|---------------------------------|--------------------|------------------------|
| Туре        | Other (specify)                 |                    | Not Applicable         |
|             | Manufacturer                    |                    | Delphi                 |
|             | Model                           |                    | Direct Ignition        |
| Coil        | Current                         | Engine stopped - A | Less than 100 mA       |
|             |                                 | Engine idling - A  | Less than 1.5 A (Avg.) |
|             | Manufacturer                    |                    | Delphi                 |
|             | Model                           |                    | 41 - 940               |
| Spark       | Thread (mm)                     |                    | 14                     |
| plug        | Tightening torque N·m (lb. ft.) |                    | 9-20 (7-15)            |
|             | Gap                             |                    | 1.5 mm                 |
|             | Number per cylinder             |                    | One                    |
|             | Manufacturer                    |                    | Not Applicable         |
| Distributor | Model                           |                    | Not Applicable         |

**Electrical - Suppression** 

|   | Locations & type |  |
|---|------------------|--|
|   |                  |  |
| ١ |                  |  |

Vehicle Line Model Year MONTE CARLO

Issued Revised (●)

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

| Model | Code | Docci | rintion |
|-------|------|-------|---------|
|       |      |       |         |

ALL

## **Restraint System**

| Seating Position                                 |                                                                                                 |                | Left                                                                                                                                                           | Center                                              | Right                                                                                                                                                                    |
|--------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | Type & description (lap & shoulder belt, lap belt, etc.)                                        | First<br>seat  | 3Pt. Single Loop W/Shldr.<br>Retractor, End Release<br>Buckle, Head Rest<br>Guide/All Retractors are<br>Web & Vehicle Sensitive<br>Retractors                  | Lap Belt<br>Manual Adjustment<br>End Release Buckle | 3 Pt. Single Loop W/Shldr.<br>Retractor, End Release<br>Buckle, Head Rest Guide,<br>Child Cinch Retractor/All<br>Retractors are Web &<br>Vehicle Sensitive<br>Retractors |
| Active                                           | (lap & shoulder belt, lap belt, etc.)                                                           | Second<br>seat | Three Pt. Single Loop W/Shldr. Retractor, End Release Buckle, Child Cinch Retractor, Child Comfort Guide/All Retractors are Web & Vehicle Sensitive Retractors | Lap Belt<br>Manual Adjustment<br>End Release Buckle | Three Pt. Single Loop W/Shldr. Rtrctr., End Release Buckle, Child Cinch Retractor, Child Comfort Guide/All Retractors are Web & Vehicle Sensitive Retractors             |
|                                                  | Standard / Optional                                                                             | Third seat     |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
|                                                  | Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt) | First<br>seat  | Air Bag                                                                                                                                                        | Air Bag (Passenger Side)                            | Air Bag                                                                                                                                                                  |
| Passive                                          |                                                                                                 | Second<br>seat |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
|                                                  | Standard / Optional                                                                             | Third seat     |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Glass                                            |                                                                                                 | SAE<br>Ref.No. |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Windshield gla<br>surface area d                 |                                                                                                 | S1             |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
|                                                  | posed surface<br>i - total 2 sides                                                              | S2             | 3815.14 cm <sup>2</sup>                                                                                                                                        |                                                     |                                                                                                                                                                          |
| Backlight glas<br>surface area o                 |                                                                                                 | S3             |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Total glass exposed surface area cm² (in.²)      |                                                                                                 | S4             |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Windshield glass (type/thickness)                |                                                                                                 |                |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Side glass (type/thickness)                      |                                                                                                 |                | 5.0 mm                                                                                                                                                         |                                                     |                                                                                                                                                                          |
| Backlight glass (type/thickness)                 |                                                                                                 |                |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Tinted (yes/no                                   | ·                                                                                               |                |                                                                                                                                                                |                                                     |                                                                                                                                                                          |
| Solar control (yes/no, coated/batched, location) |                                                                                                 |                |                                                                                                                                                                |                                                     |                                                                                                                                                                          |

## Headlamps

| Description (sealed beam, halogen, replaceable bulb, etc.) | Halogen, Replacement Bulb Unit |
|------------------------------------------------------------|--------------------------------|
| Shape                                                      | Aero                           |
| Lo-beam type (2A1, 2B1, 2C1, etc.)                         | Trade No. 9006/HB4             |
| Quantity                                                   | Two                            |
| Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)                    | Trade No. 9005/HB3             |
| Quantity                                                   | Two                            |

Vehicle Line MONTE C
Model Year 1998

| MONTE | CARLO  |
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**METRIC (U.S. Customary)** 

| Model Code/Description | ALL |
|------------------------|-----|

## Body

| 204,                       |                                                                                                                                                                                                                                                   |  |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Structure                  | Unitized Body - Frame. Body Side Assembly Includes Full Drawn Quarter Panels. Fully Stamped Inner/Outer Door Panels with Header Extending into Roof. Full-Length Deck Lid Inner/Outer Panels, Full-Drawn Floor Pan.                               |  |
| Bumper system front - rear | Body Color Soft Fascia, Foam Absorber and Rigid Reinforcing<br>Bar Used at Both Front and Rear.                                                                                                                                                   |  |
| Anti-corrosion treatment   | Double-Sided Galvanizing or Gavaneal of all Major Body/Sheet Metal Inner/Outer Panels Including Hood, Deck Lid, Doors as well as Rear and End Panel, Plenum, Fenders, Compartment Pan, Quarter Panels, Rocker Panels and Wheelhouse Outer Panels. |  |

## **Body - Miscellaneous Information**

| Type of finish (lacquer, enamel, other)                      |                     | er)                                   | Base Coat-Clear Coat Acrylic Enamel Over ELPO Primer                                                                        |
|--------------------------------------------------------------|---------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
|                                                              | Material & mass     |                                       | Steel, 17.3 kg.                                                                                                             |
|                                                              | Hinge location (    | front, rear)                          | Rear                                                                                                                        |
| Hood                                                         | Type (counterba     | alance, prop)                         | Gas Charged Strut                                                                                                           |
|                                                              | Release control     | (internal, external)                  | Internal                                                                                                                    |
|                                                              | Material & mass     | <b>i</b>                              | Steel                                                                                                                       |
| Trunk                                                        | Type (counterba     | alance, other)                        | Dual Torque Rods                                                                                                            |
| lid                                                          | Internal release of | control (elec., mech., n.a.)          | Electric, Optional                                                                                                          |
|                                                              | Material & mass     | · · · · · · · · · · · · · · · · · · · | Not Available                                                                                                               |
| Hatchback                                                    | Type (counterba     | alance, other)                        | Not Available                                                                                                               |
| lid                                                          | Internal release of | control (elec., mech., n.a.)          | Not Available                                                                                                               |
|                                                              | Material & mass     |                                       | Not Available                                                                                                               |
| Tailgate                                                     | Type (drop, lift,   | door)                                 | Not Available                                                                                                               |
|                                                              | Internal release of | control (elec., mech., n.a.)          | Not Available                                                                                                               |
| Vent window co                                               |                     | Front                                 | Not Applicable                                                                                                              |
| friction, pivot, power)                                      |                     | Rear                                  | Not Applicable                                                                                                              |
| Window regulat                                               |                     | Front                                 | Cross Arm Regulator                                                                                                         |
| (cable, tape, fle                                            | x drive, etc.)      | Rear                                  | Cross Arm Regulator                                                                                                         |
| Seat cushion type                                            |                     | Front                                 | Custom Cloth - 60/40 Split Bench or 40/40 Bucket, Trim Material Bonded to Foam Leather - 40/40 Bucket on Foam               |
| (e.g., 60/40 bucket, bench, wire, foam, etc.)                |                     | Rear                                  | Custom Cloth - Bench, Trim Material Bonded to Foam with Encapsulated Frame Leather - Bench, On Foam with Encapsulated Frame |
|                                                              |                     | 3rd seat                              | Not Applicable                                                                                                              |
| Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.) |                     | Front                                 | Custom Cloth - 60/40 Split Bench or 40/40 Bucket, Trim Material Bonded to Foam Leather - 40/40 Bucket on Foam               |
|                                                              |                     | Rear                                  | Custom Cloth - Bench, Trim Material Bonded to Foam with Encapsulated Frame Leather - Bench, On Foam with Encapsulated Frame |
|                                                              |                     | 3rd seat                              | Not Applicable                                                                                                              |

## Frame

| I Type and description (senarate trame | ed Body/Frame, Bolted-On Powertrain Cradle with<br>ring Provisions for Suspension, Steering Rack and Engine Mounts. |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------|

AAMA-98

| Vehicle Line | MONTE CARLO |        |             |
|--------------|-------------|--------|-------------|
| Model Year   | 1998        | Issued | Revised (●) |

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

| Model Code/Description | ALL    |
|------------------------|--------|
| model Gode/Bessirphon  | 1 1000 |

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

| Clock (digital, analog)                    |                                                                           | Digital - In Radio, Standard               |
|--------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------|
| Compass / thermometer                      |                                                                           | Not Available                              |
| Console (floor, overhead)                  |                                                                           | Optional, Floor (Overhead - Not Available) |
| Defroster, electric windshield             |                                                                           | Not Available                              |
| Defroster, ele                             | ctric backlight                                                           | Optional                                   |
|                                            | Diagnostic monitor (integrated, individual)                               | Not Available                              |
|                                            | Instrument cluster (list instruments)                                     | Not Available                              |
|                                            | Keyless entry                                                             | Optional                                   |
| Electronic                                 | Tripminder (avg. spd., fuel)                                              | Not Available                              |
|                                            | Voice alert (list items)                                                  | Not Available                              |
|                                            | Other                                                                     |                                            |
| Fuel door lock                             | k (remote, key, electric)                                                 |                                            |
|                                            | Std./opt. & location in vehicle                                           | Not Available                              |
| Integrated                                 | Number of occupants                                                       | Not Available                              |
| Child<br>Seating                           | Occupant weight/height (min. & max.)                                      | Not Available                              |
|                                            | Restraint system description (3 or 5-point belts/booster seat capability) | Not Available                              |
|                                            | Daytime Running Light (Yes/No)                                            | Yes, Standard                              |
|                                            | Cornering                                                                 | Not Available                              |
|                                            | Courtesy (map, reading) Dome                                              | Standard                                   |
|                                            | Door lock, ignition                                                       |                                            |
|                                            | Engine compartment                                                        | Standard                                   |
| Lamps                                      | Fog                                                                       | Not Available                              |
|                                            | Glove compartment                                                         | Standard                                   |
|                                            | Trunk                                                                     | Standard                                   |
|                                            | Illuminated entry system (list lamps, activation)                         | Sustained Interior Illumination            |
|                                            | Other Ashtray                                                             | Standard                                   |
|                                            | CHMSL                                                                     | Standard                                   |
|                                            | Daytime Running Lights (DRL)                                              | Standard                                   |
|                                            | Day / night (auto., man.)                                                 | Standard - Manual                          |
|                                            | L.H. (remote, power, heated)                                              | Standard - Remote, Optional - Power        |
| Mirrors                                    | R.H. (convex, remote, power, heated)                                      | Standard - Manual, Optional - Power        |
|                                            |                                                                           | Visor vanity (RH / LH, illuminated)        |
| Navigation sy                              | stem (describe)                                                           | Not Available                              |
| Parking brake-auto release (warning light) |                                                                           | Standard - Warning Light                   |

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| Vehicle Line | MONT | E CARLO |             |  |
|--------------|------|---------|-------------|--|
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## **METRIC (U.S. Customary)**

| Engine Code/Description               | ALL |
|---------------------------------------|-----|
| · · · · · · · · · · · · · · · · · · · |     |

## **Climate Control System**

|                                            | iti Oi Oystein                |                                          |
|--------------------------------------------|-------------------------------|------------------------------------------|
| Air conditioning (std., opt., man., auto.) |                               | Standard - L82                           |
|                                            | Туре                          | Tube & Fin                               |
| Condenser                                  | Eff. face area (sq. mm.)      | 315,181                                  |
|                                            | Fins per inch                 | 13                                       |
|                                            | Туре                          | U Flow, Aluminum                         |
| Evaporator                                 | Eff. face area (sq. mm.)      | 48,437                                   |
|                                            | Fins per inch                 | 14                                       |
|                                            | Material                      | Aluminum                                 |
| Heater core                                | Eff. face area (sq. mm.)      | 33,028                                   |
|                                            | Fins per inch                 | 30                                       |
|                                            | Туре                          | V5                                       |
|                                            | Displacement (cc.)            | Variable Displacement                    |
| Compressor                                 | Manufacturer                  | Delphi Harrison Thermal Systems          |
|                                            | A/C pulley ratio              | 1.37                                     |
|                                            | Туре                          | Non-Serviceable, Sealed, Integral Design |
| Accumulator                                | Height (mm.)                  | 206                                      |
|                                            | Diameter (mm.)                | 89                                       |
|                                            | Туре                          | Not Applicable                           |
| Receiver                                   | Height (mm.)                  | Not Applicable                           |
|                                            | Diameter (mm.)                | Not Applicable                           |
| Refrigerant control (CCOT, TVS, etc.)      |                               | Variable Displacement Compressor VDOT    |
| Heater water valve (yes / no)              |                               | No                                       |
| Refrigerant (R -                           | 12, R - 134a, etc.)           | R134A                                    |
| Charge level (lb                           | s oz.)                        | 1.875 lbs.                               |
| Cold engine loc                            | kout switch (yes / no)        | No                                       |
| Wide open thro                             | ttle cutout switch (yes / no) | Yes                                      |
| Power steering                             | cutout switch (yes/no)        | No                                       |

Vehicle Line

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

**Vehicle Dimensions** 

See Key Sheets for definitions

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

| Model Code/Description           | SAE<br>Ref. | ALL            |
|----------------------------------|-------------|----------------|
| Width                            | No.         |                |
| Tread (front)                    | W101        | 1512 (59.5)    |
| Tread (rear)                     | W102        | 1500 (59.1)    |
| Vehicle width                    | W103        | 1825 (71.9)    |
| Body width at SgRP (front)       | W117        | 1795 (70.7)    |
| Vehicle width (front doors open) | W120        | 4057 (159.7)   |
| Vehicle width (rear doors open)  | W121        | Not Applicable |
| Tumble-home (degrees)            | W122        | 28             |
| Outside mirror width             | W410        | 1980 (78.0)    |

#### Length

| Wheelbase                     | L101 | 2730 (107.5)   |
|-------------------------------|------|----------------|
| Vehicle length                | L103 | 5099 (200.7)   |
| Overhang (front)              | L104 | 1172 (46.1)    |
| Overhang (rear)               | L105 | 1197 (47.1)    |
| Upper structure length        | L123 | 2876.5 (113.2) |
| Rear Wheel C/L "X" coordinate | L127 | 4525 (178.1)   |

#### Height \*\*

| Passenger distribution (front/rear) | PD1 ,2,3 | 2/3         |                                         |
|-------------------------------------|----------|-------------|-----------------------------------------|
| Trunk/cargo load                    |          | * *         |                                         |
| Vehicle height                      | H101     | 1368 (53.9) | *************************************** |
| Cowl point to ground                | H114     | 862 (33.9)  |                                         |
| Deck point to ground                | H138     |             |                                         |
| Rocker panel-front to ground        | H112     | 194 (7.6)   |                                         |
| Rocker panel-rear to ground         | H111     | 195 (7.7)   |                                         |
| Windshield slope angle (degrees)    | H122     | 64          |                                         |
| Backlight slope angle (degrees)     | H121     | 69          |                                         |

#### **Ground Clearance \*\***

| Front bumper to ground                    | H102 |                                |
|-------------------------------------------|------|--------------------------------|
| Rear bumper to ground                     | H104 |                                |
| Bumper to ground front at curb mass (wt.) | H103 |                                |
| Bumper to ground rear at curb mass (wt.)  | H105 |                                |
| Angle of approach (degrees)               | H106 |                                |
| Angle of departure (degrees)              | H107 |                                |
| Ramp breakover angle (degrees)            | H147 |                                |
| Axle differential to ground (front/rear)  | H153 |                                |
| Min. running ground clearance             | H156 | 165 (6.5)                      |
| Location of min. running ground clear.    |      | Exhaust Pipe Rear of Converter |

<sup>\*\*</sup> All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.
EPA loaded vehicle weight is the base vehicle weight plus all coolant and fluids necessary for operation plus 100% of the fuel capacity, plus the weight of all options and accessories which weigh three pounds or more and which are sold on at least 33% of the car line, plus two occupants.

All linear dimensions are in millimeters (inches).

| Vehicle Line | MONT | E CARLO |             |
|--------------|------|---------|-------------|
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## **METRIC (U.S. Customary)**

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

|                                            | Deck lid (release, pull down) |                                                                                                                   | Optional, Electric Release                                                                                                                                                                  |
|--------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                            | Door locks<br>describe sy     | (manual, automatic,<br>stem)                                                                                      | Electric, Standard                                                                                                                                                                          |
|                                            |                               | 2 - 4 - 6 way, etc.                                                                                               | Standard Four Way, Driver Side Only, Optional Six-Way                                                                                                                                       |
|                                            |                               | Reclining (R.H., L.H.)                                                                                            | Standard - Manual                                                                                                                                                                           |
| Power                                      |                               | Memory (R.H.,L.H., preset recline)                                                                                | Not Available                                                                                                                                                                               |
| equipment                                  | Seats                         | Support (lumbar, hip, thigh, etc.)                                                                                | Not Available                                                                                                                                                                               |
|                                            |                               | Heated (R.H., L.H., other)                                                                                        | Not Available                                                                                                                                                                               |
|                                            | Side window                   | <br>ws                                                                                                            | Standard Power                                                                                                                                                                              |
|                                            | Vent window                   | ws                                                                                                                | Not Applicable                                                                                                                                                                              |
|                                            | Rear windo                    | ws                                                                                                                | Not Applicable                                                                                                                                                                              |
|                                            | Antenna (lo                   | cation, whip, w/shield, power)                                                                                    | Standard Fixed Whin Located on Pight Boar Unner Querter Board                                                                                                                               |
| Radio<br>systems                           | Antenna (10                   | Cation, whip, wishield, power)                                                                                    | Standard, Fixed Whip Located on Right Rear Upper Quarter Panel                                                                                                                              |
|                                            | Standard                      |                                                                                                                   | AM/FM Stereo, Seek & Scan/Standard                                                                                                                                                          |
|                                            | Optional                      | AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc. | AM/FM Stereo, Seek & Scan, Cassette ATC (Theft Deterrent) - Optional AM/FM Stereo, Seek & Scan, Cassette - Optional AM/FM Stereo, Seek & Scan/Compact Disc ATC (Theft Deterrent) - Optional |
|                                            |                               | umber, location)                                                                                                  | Standard - Two In Front Doors, Two In Package Shelf, Optional - Dual Coax                                                                                                                   |
| Roof: open ai                              | r or fixed (flip-u            | p, sliding, "T")                                                                                                  | Not Available                                                                                                                                                                               |
| Speed control device                       |                               |                                                                                                                   | Optional, Automatic Electronic                                                                                                                                                              |
| Speed warning device (light, buzzer, etc.) |                               |                                                                                                                   | Not Available                                                                                                                                                                               |
| Speed warning                              | 9 ==                          |                                                                                                                   |                                                                                                                                                                                             |
|                                            |                               |                                                                                                                   | Optional (Included as Part of Optional Gauge Package)                                                                                                                                       |
| Tachometer (                               |                               | )                                                                                                                 | Optional (Included as Part of Optional Gauge Package)  Not Available                                                                                                                        |

## **Trailer Towing**

| Towing capable                  | Yes / No    | Yes                                                      |
|---------------------------------|-------------|----------------------------------------------------------|
| Engine / transmission / axle    | Std. / Opt. | 3.1L, Four-Spd. Auto., 3.33; 3.8L, Four-Spd. Auto., 3.43 |
| Tow class (I, II, III)*         | Std. / Opt. | One                                                      |
| Max. gross trailer wgt. (lbs.)  | Std / Opt.  | 1000                                                     |
| Max. trailer tongue load (lbs.) | Std. / Opt. | 100                                                      |
| Towing package available        | Yes / No    | No                                                       |
| Towing package available        | Yes / No    | No                                                       |
|                                 |             |                                                          |
|                                 |             |                                                          |
|                                 |             |                                                          |
|                                 |             |                                                          |

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

Class II - 3,500 lbs.

Class III - 5,000 lbs.

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

| Model Code/ |  |
|-------------|--|
| Description |  |

| ALL |  |  |  |
|-----|--|--|--|
|     |  |  |  |

| Fiducial Mark<br>Number*      |        | Define Coordinate Location                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |
|-------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Front                         |        | <ul> <li>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.</li> <li>Y - Fiducial Mark to Centerline of Car - Front, Width Measurement made from Centerline Car to</li> </ul> |  |  |  |  |  |  |
|                               |        | 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.                                                            |  |  |  |  |  |  |
|                               |        | X - Fiducial Mark to Vertical Zero Grid Line - Rear. Measured Horizontally from the Zero Grid Line to Rear Fiducial Hole Located on the Rail (Compartment Pan - Longitudinal.)                                                                                                                                     |  |  |  |  |  |  |
| Rear                          |        | Y - Fiducial Mark to Centerline of Car - Rear, Width Measurement made from Centerline of Car to Fiducial Hole Located on the Rail (Compartment Pan - Longitudinal.)  Z - Fiducial Mark to Horizontal Zero Grid Line - Rear, Measured Vertically from the Zero Grid Line                                            |  |  |  |  |  |  |
| NOTE: Provic<br>Fiducial Mark |        | to Rear Fiducial Hole Located on the Rail (Compartment Pan - Longitudinal.)                                                                                                                                                                                                                                        |  |  |  |  |  |  |
|                               | W21**  | 555.0 (21.9)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
|                               | L54**  | 2775.0 (109.3)                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |
| ront                          | H81**  | 278.0 (10.9)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
| ***                           | H161** | 340.7 (13.4)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
| ***                           | H163** | 324.8 (12.8)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
|                               | W22**  | 488 (19.2)                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |
|                               | L55**  | 5200 (204.7)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
| Rear                          | H82**  | 388 (15.3)                                                                                                                                                                                                                                                                                                         |  |  |  |  |  |  |
| ***                           | H162** | 458.7 (18.0)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |
|                               | H164** | 439.1 (17.3)                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |  |

<sup>\*</sup> Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.

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

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

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

Vehicle Line MONTE CARLO Model Year

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**Vehicle Dimensions** See Key Sheets for definitions

| Model Code/Description | SAE  | ALL |
|------------------------|------|-----|
|                        | Ref. |     |
| Front Compartment      | No   |     |

|                                          | Ref. |                |
|------------------------------------------|------|----------------|
| Front Compartment                        | No.  |                |
| SgRP front, "X" coordinate               | L31  | 3139.5 (123.6) |
| Effective head room                      | H61  | 963 (37.9)     |
| Max. effective leg room (accelerator)    | L34  | 1076 (42.4)    |
| SgRP to heel point                       | H30  | 240 (9.4)      |
| SgRP to heel point                       | L53  | 876 (34.5)     |
| Back angle (degrees)                     | L40  | 26.0           |
| Hip angle (degrees)                      | L42  | 98.0           |
| Knee angle (degrees)                     | L44  | 128            |
| Foot angle (degrees)                     | L46  | 87             |
| Design H-point front travel              | L17  | 218 (8.6)      |
| Normal driving & riding seat track trvl. | L23  | 178.5 (7.0)    |
| Shoulder room                            | W3   | 1460 (57.5)    |
| Hip room                                 | W5   | 1356 (53.4)    |
| Upper body opening to ground             | H50  | 1203 (47.4)    |
| Steering wheel maximum diameter*         | W9   | 375 (14.8)     |
| Steering wheel angle (degrees)           | H18  | 22             |
| Accel, heel pt. to steer, whl. cntr.     | L11  |                |
| Accel, heel pt. to steer, whil. cntr.    | H17  |                |

**Rear Compartment** 

Undepressed floor covering thickness

Front Compartment Interior Dimensions are Measured with the Seating Reference Point (SgRP) 39.5 mm forward and 5.5 mm Upward of Rearmost Posi \_mm Upward of Rearmost Position.

| SgRP point couple distance         | L50 | 792 (31.2)     |
|------------------------------------|-----|----------------|
| Effective head room                | H63 | 938 (36.9)     |
| Min. effective leg room            | L51 | 886 (34.9)     |
| SgRP (second to heel)              | H31 | 249.5 (9.8)    |
| Knee clearance                     | L48 | 22 (0.9)       |
| Shoulder room                      | W4  | 1463 (57.6)    |
| Hip room                           | W6  | 1310 (51.6)    |
| Upper body opening to ground       | H51 | Not Applicable |
| Back angle (degrees)               | L41 | 28             |
| Hip angle (degrees)                | L43 | 84             |
| Knee angle (degrees)               | L45 | 87             |
| Foot angle (degrees)               | L47 | 123            |
| Depressed floor covering thickness | H73 | 18 (0.7)       |

29 (1.1)

#### **Luggage Compartment**

|   | Usable luggage capacity L (cu. ft.) | V1   | 444.4 (15.7) |
|---|-------------------------------------|------|--------------|
| * | Liftover height                     | H195 | 679 (26.7)   |

## Interior Volumes (EPA Classification)

| Vehicle class                               |     | Mid-Size |
|---------------------------------------------|-----|----------|
| Interior volume index including trunk/cargo | E1  | 112.1    |
| (cu. ft.)** Cargo Utility index (%)         | V13 | 51.3     |

<sup>\*</sup> See page 14.

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

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

# MVMA Specifications METRIC (U.S. Customary)

Vehicle Line Model Year

MONTE CARLO

Revised (●)

# Optional Equipment Differential Mass (weight)\*

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Optional Equipment Differential Mass (weight)* |           |           |                            |  |  |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------|-----------|----------------------------|--|--|
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                | MASS, kg. | (lb.)     | Remarks                    |  |  |
| Code  | Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Front                                          | Rear      | Total     | Restrictions, Requirements |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |           |                            |  |  |
| AG1   | Seat Adj-6 Way Pwr Drv Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1.0                                            | 0.6       | 1.6       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (2.2)                                          | (1.3)     | (3.5)     | 1 <b>WW2</b> 7             |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |           |                            |  |  |
| AM9   | Seat-RR, Split Back, Fldg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.4                                            | 4.8       | 5.2       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.9)                                          | (10.6)    | (11.5)    | 1WA00                      |  |  |
| A DO  | Commercial Number                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                |           |           |                            |  |  |
| AP9   | Convenience Net                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.0                                            | 0.2       | 0.2       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.0)                                          | (0.4)     | (0.4)     | 1WW27                      |  |  |
| AQ9   | Seat Front-Bucket/Recliner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.6                                            | 0.6       | 1.2       |                            |  |  |
| AQS   | Seat Front-Bucket/Recliner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.6                                            | 0.6 (1.3) | 1.2 (2.6) | 11440.00                   |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (1.3)                                          | (1.3)     | (2.6)     | 1WA00                      |  |  |
| AR9   | Seat Front Bkt, Euro P/D Recliner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -1.0                                           | -1.0      | -2.0      |                            |  |  |
| 71110 | Ocal Front Ball, Edio F7B Recliner                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (-2.2)                                         | (-2.2)    | (-4.4)    | 1\444/27                   |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (-2.2)                                         | (-2.2)    | (-4.4)    | 1WW27                      |  |  |
| AU0   | Lock Control Remote Entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.2                                            | 0.0       | 0.2       |                            |  |  |
|       | 200K Control Homoto Linuy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | (0.4)                                          | (0.0)     | (0.4)     | 1 <b>WW2</b> 7             |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.4)                                          | (0.0)     | (0.4)     | 1000027                    |  |  |
| A90   | Lock-RR Compt Lid, Rem Cont Ele.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0                                            | 0.2       | 0.2       |                            |  |  |
|       | The state of the s | (0.0)                                          | (0.44)    | (0.44)    | 1WW27                      |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (3.3)                                          | (0)       | (0.1.)    | (44447)                    |  |  |
| BF9   | Cover-Fir. Mat Delete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -1.4                                           | -1.0      | -2.4      |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (-3.1)                                         | (-2.2)    | (-5.3)    |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |           |                            |  |  |
| CF5   | Sunroof - Electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5.4                                            | 6.4       | 11.8      |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (11.9)                                         | (14.1)    | (26.0)    |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |           |                            |  |  |
| CJ3   | HVAC Sys, A/C Front                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.4                                            | 0.0       | 0.4       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.9)                                          | (0.0)     | (0.9)     | 1 <b>WW2</b> 7             |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |           |                            |  |  |
| C49   | Defogger-RR Window, Electric                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.0                                            | 0.2       | 0.2       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.0)                                          | (0.4)     | (0.4)     |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                |           |           |                            |  |  |
| DG7   | Mirror - O/S. L&R, Elec. Painted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.0                                            | 0.0       | 0.0       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.0)                                          | (0.0)     | (0.0)     |                            |  |  |
| DEE   | Consider Est. Consider El                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                |           |           |                            |  |  |
| D55   | Console-Frt. Compt. Floor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.8                                            | 1.8       | 3.6       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (4.0)                                          | (4.0)     | (7.9)     | 1 <b>WW2</b> 7             |  |  |
| D81   | Spoiler - R Aero Wing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                | 4.0       | 1 1       |                            |  |  |
| וסח   | Spoiler - K Aero wing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -0.2                                           | 1.6       | 1.4       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (-0.4)                                         | (3.5)     | (3.1)     |                            |  |  |
| IPC   | Trim, Interior Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.2                                            | 0.0       | 0.2       |                            |  |  |
| 11 0  | min, interior besign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | (0.4)                                          | (0.0)     | (0.4)     |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (0.4)                                          | (0.0)     | (0.4)     |                            |  |  |
| KC4   | Cooling System - Eng. Oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1.0                                            | 0.0       | 1.0       |                            |  |  |
|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (2.2)                                          | (0.0)     | (2.2)     |                            |  |  |
| ····· |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | (2.2)                                          | (0.0)     | (4.4)     |                            |  |  |
| KD1   | Cooling System - Trans Oil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.4                                            | -0.2      | 1.2       |                            |  |  |
| וטא   | Occining Cystem Trans On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1 1.4                                          | 1 -0/     |           |                            |  |  |

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

# MVMA Specifications METRIC (U.S. Customary)

 Vehicle Line
 MONTE CARLO

 Model Year
 1998
 Issued
 Revised (●)

|                                   |            | VEHICLE      | % PASS MASS<br>DISTRIBUTION                      |              |                                                  |                                                  |              |                                                  |                                                  |
|-----------------------------------|------------|--------------|--------------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|--------------|--------------------------------------------------|--------------------------------------------------|
|                                   | CUR        | B MASS, kg.  | Shipping<br>Mass                                 | ETWC*        | Pass in Front                                    |                                                  | Pass in Rear |                                                  |                                                  |
| Code Model                        | Front Rear |              | Total                                            | kg (lb)***   | Code                                             | Front Rear                                       |              | Front Rear                                       |                                                  |
|                                   |            |              |                                                  |              |                                                  |                                                  |              |                                                  |                                                  |
| MONTE CARLO LS 1WW27              | 960.8      | 539.0        | 1499.8                                           | 1464.8       | V                                                | 49.4                                             | 50.6         | 21.8                                             | 78.2                                             |
| 2-Dr. Notchback Coupe (L82 & M13) | (2118.0)   | (1188.0)     | (3196.0)                                         | (3229.0)     |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              |                                                  |                                                  |              |                                                  |                                                  |
| MONTE CARLO Z34 1WX27             | 982.6      | 548.0        | 1530.6                                           | 1495.6       | V                                                | 49.4                                             | 50.6         | 21.8                                             | 78.2                                             |
| 2-Dr. Notchback Coupe (L36 & M15) | (2166.0)   | (1208.0)     | (3374.0)                                         | (3297.0)     |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              | ļ                                                |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  | <u> </u>     |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  | -            | -                                                | ļ                                                |              |                                                  | -                                                |
|                                   |            |              |                                                  |              |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              | -                                                |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  |              | <u> </u>                                         |                                                  |              |                                                  |                                                  |
|                                   |            |              |                                                  | -            |                                                  |                                                  |              |                                                  | <del> </del>                                     |
|                                   |            |              |                                                  |              |                                                  | ļ                                                |              |                                                  | -                                                |
|                                   |            |              |                                                  |              | <u> </u>                                         | ļ                                                |              |                                                  | -                                                |
|                                   |            | -            |                                                  |              |                                                  | -                                                |              |                                                  |                                                  |
|                                   |            |              |                                                  |              |                                                  | <u> </u>                                         | <u> </u>     | -                                                |                                                  |
|                                   |            |              |                                                  | ļ            | -                                                | <b></b>                                          |              | <del> </del>                                     | 1                                                |
|                                   |            | <u> </u>     |                                                  |              | <del> </del>                                     | <u> </u>                                         | -            | <del> </del>                                     |                                                  |
|                                   |            |              |                                                  | <b>_</b>     | <del> </del>                                     | -                                                |              | <u> </u>                                         |                                                  |
|                                   |            | -            |                                                  |              | <del>                                     </del> | -                                                |              | <del>                                     </del> |                                                  |
|                                   |            | -            |                                                  | -            | -                                                | -                                                |              |                                                  | <del> </del>                                     |
|                                   |            | <del> </del> |                                                  |              | -                                                | +                                                |              | <del> </del>                                     | <del>                                     </del> |
|                                   |            | -            |                                                  |              | +                                                | +                                                | -            | -                                                | -                                                |
|                                   |            |              |                                                  | <del> </del> | +                                                | +                                                | <b> </b>     |                                                  |                                                  |
|                                   |            | <del> </del> | -                                                | +            | <del> </del>                                     | <del> </del>                                     |              |                                                  | <del> </del>                                     |
|                                   |            | -            |                                                  | +            | <del> </del>                                     | <del>                                     </del> | 1            |                                                  | <del>                                     </del> |
|                                   |            | <del> </del> | <del> </del>                                     | -            | 1                                                | <del> </del>                                     |              |                                                  | <b>†</b>                                         |
|                                   |            |              | <del>                                     </del> |              |                                                  |                                                  |              |                                                  |                                                  |
|                                   |            |              | -                                                |              | <del> </del>                                     |                                                  |              |                                                  |                                                  |
|                                   |            | -            | +                                                | <del> </del> |                                                  |                                                  |              |                                                  | <del>                                     </del> |
|                                   |            |              |                                                  |              |                                                  |                                                  | 1            | <b>†</b>                                         | <del>                                     </del> |
|                                   |            |              | -                                                | +            | 1                                                | 1                                                | 1            | <del> </del>                                     | <del>                                     </del> |
|                                   | _          |              |                                                  |              |                                                  |                                                  | 1            | 1                                                | 1                                                |

|   |   |      |   |   | ETWC         | LEGEN | D |      |            |   |      |                                                |
|---|---|------|---|---|--------------|-------|---|------|------------|---|------|------------------------------------------------|
| Α | = | 1000 | i | = | 2000         | Q     | = | 3000 | Υ          | = | 4000 | *** Shipping Mass (weight) = Curb Weight Less: |
| В | = | 1125 | J | = | 2125         | R     | = | 3125 | Z          | = | 4250 | Simpping mass (maight) Said traight areas      |
| С | = | 1250 | K | = | 2250         | S     | = | 3250 | AA         | = | 4500 | 35 (77)                                        |
| D | = | 1375 | L | = | 2375         | Т     | = | 3375 | B <b>B</b> | = | 4750 | 33 (11)                                        |
| Ε | = | 1500 | M | = | 2500         | U     | = | 3500 | CC         | = | 5000 |                                                |
| F | = | 1625 | Ν | = | 26 <b>25</b> | V     | = | 3625 | DD         | = | 5250 |                                                |
| G | = | 1750 | 0 | = | 2750         | W     | = | 3750 | EE         | = | 5500 |                                                |
|   |   | 4075 |   | _ | 2075         | ~     |   | 2075 | ==         | _ | 5750 |                                                |

<sup>\*</sup> Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.

<sup>\*\*</sup> ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications.

Refer to ETWC code legend below for test weight class.

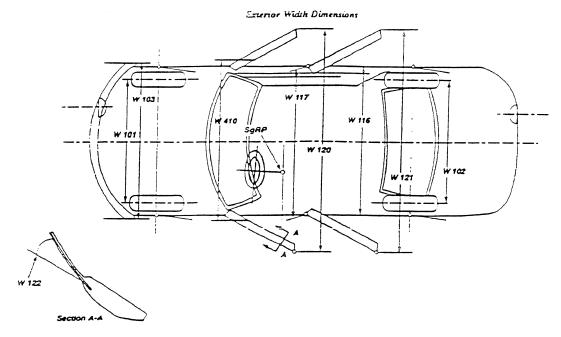
# MVMA Specifications METRIC (U.S. Customary)

 Vehicle Line
 MONTE CARLO

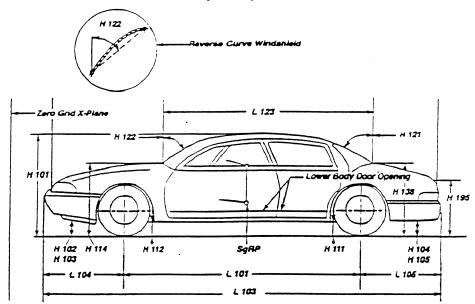
 Model Year
 1998
 Issued
 Revised (●)

|      |                                | Optional Equipment Differential Mass (weight)* |           |        |                            |  |  |  |  |  |
|------|--------------------------------|------------------------------------------------|-----------|--------|----------------------------|--|--|--|--|--|
|      |                                |                                                | MASS, kg. | (lb.)  | Remarks                    |  |  |  |  |  |
| Code | Equipment                      | Front                                          | Rear      | Total  | Restrictions, Requirements |  |  |  |  |  |
| K05  | Heater - Engine Block          | 0.2                                            | 0.0       | 0.2    |                            |  |  |  |  |  |
| KUS  | neater - Engine Block          | (0.4)                                          | (0.0)     | (0.4)  |                            |  |  |  |  |  |
| K34  | Cruise Control Auto Electronic | 1.2                                            | 0.0       | 1.2    |                            |  |  |  |  |  |
|      |                                | (2.6)                                          | (0.0)     | (2.6)  | 1WW27                      |  |  |  |  |  |
|      |                                |                                                |           |        |                            |  |  |  |  |  |
| N81  | Full Size Spare Tire           | 0.0                                            | 6.4       | 6.4    |                            |  |  |  |  |  |
|      |                                | (0.0)                                          | (14.1)    | (14.1) |                            |  |  |  |  |  |
| PY0  | Wheel - 16 x 6.5 Aluminum      | -6.2                                           | -6.2      | -12.4  |                            |  |  |  |  |  |
|      |                                | (13.7)                                         | (13.7)    | (27.3) | 1WW27                      |  |  |  |  |  |
| QNX  | Tire-P225/60R16/NBL            | 1.6                                            | 1.6       | 3.2    |                            |  |  |  |  |  |
|      |                                | (3.5)                                          | (3.5)     | (7.1)  | 1WW27                      |  |  |  |  |  |
| ULO  | Radio-AM/FM Stereo             | 0.0                                            | 0.0       | 0.0    |                            |  |  |  |  |  |
|      |                                | (0.0)                                          | (0.0)     | (0.0)  | 1WW27                      |  |  |  |  |  |
| UL5  | Radio-Delete                   | -1.2                                           | -0.8      | -2.0   |                            |  |  |  |  |  |
|      |                                | (-2.6)                                         | (-1.8)    | (-4.4) |                            |  |  |  |  |  |
| UN0  | Radio-AM/FM Compact Disc       | 0.2                                            | 0.0       | 0.2    |                            |  |  |  |  |  |
|      |                                | (0.4)                                          | (0.0)     | (0.4)  |                            |  |  |  |  |  |
| VK3  | License Plt Frt Mount Package  | 0.4                                            | -0.2      | 0.2    |                            |  |  |  |  |  |
|      |                                | (0.9)                                          | (-0.4)    | (0.4)  |                            |  |  |  |  |  |

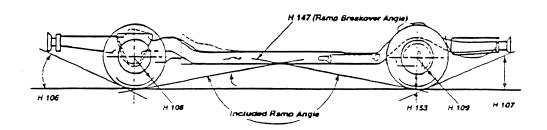
<sup>\*</sup> Also see Engine - General Section for dressed engine mass (weight.)

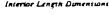


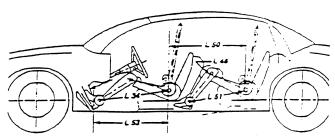
Exterior Length & Height Dimensions



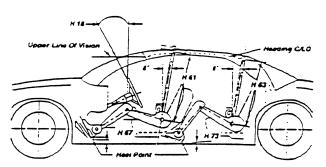
Ground Clearance Dimensions



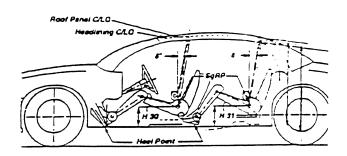




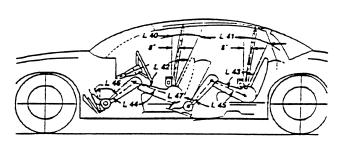
Interior Height Dimensions



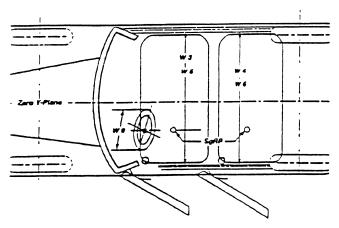
Interior Height Dimensions



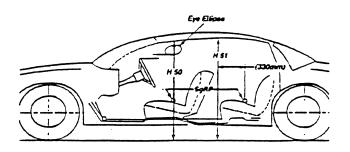
Interior Langth Dimensions

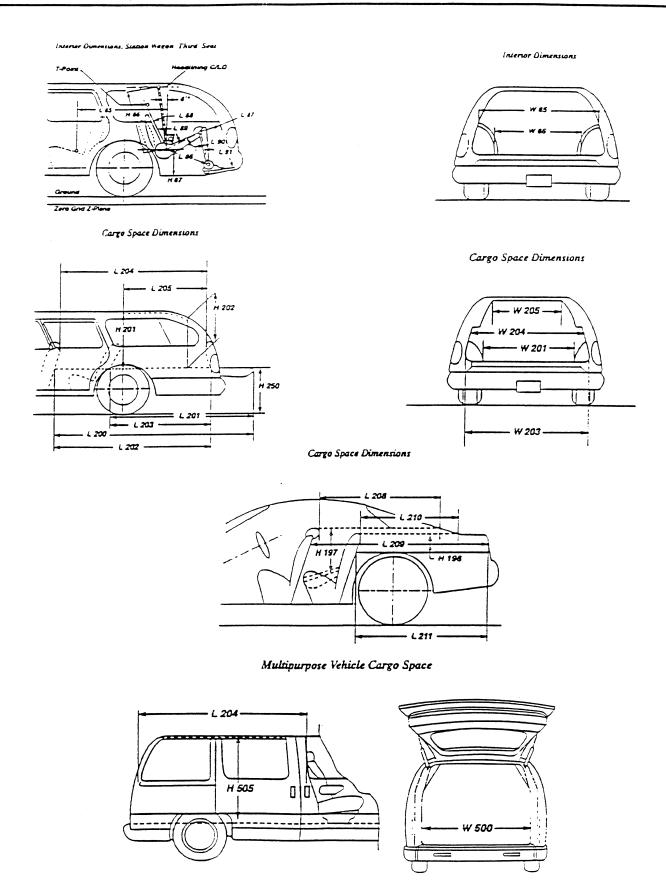


Interior Width Dimensions



Interior Height Dimensions





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 wneels, 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 appliedes.
- W120 VEHICLE WIDTH-FRONT DOORS OPEN. The dimension measured between the widest point on the rear 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" clane.
- on only one side, this dimension is to the zero "Y" plane.
  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

- WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerline. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- VEHICLE LENGTH. The maximum dimension measured 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 OVERHANG-FRONT. The dimension measured longitudinally from the centerline of the front wheels to the formeost point on the vehicle including bumper, bumper guards, tow hook and/or rub strips, if standard equipment.
- CVERHANG-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 axies, the coordinate shall be the midpoint of the distance between the rear axie 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 uper DLO.
- 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 form the lower DLO to the intersecting point on the windshield.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATICLOAD-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 FRONTBUMPER TO GROUND-CURBMASS(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 are 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 angel measured between a line tangent to the rear tire static loaded radius arc and the initial point of 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.

# Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

| Glass A<br>S1<br>S2 | Windshield area. Side windows area. Includes the front door, rear door,                                                                                                                                                                                                                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S <b>3</b>          | vents, and rear quarter windows on both sides of the vehicle.  Backlight areas.                                                                                                                                                                                                                                                                                                          |
| S4                  | Total area. Total of all areas (S1 + S2 + S3).                                                                                                                                                                                                                                                                                                                                           |
|                     | Mark Dimensions<br>Fiducial Mark - Number 1                                                                                                                                                                                                                                                                                                                                              |
| L54<br>W21<br>H81   | "X" coordinate. "Y" coordinate. "Z" coordinate.                                                                                                                                                                                                                                                                                                                                          |
| H161<br>H163        | Height "Z" coordinate to ground at curb weight. Height "Z" coordinate to ground. Fiducial Mark - Number 2                                                                                                                                                                                                                                                                                |
| L55<br>W22<br>H82   | "X" coordinate. "Y" coordinate. "Z" coordinate.                                                                                                                                                                                                                                                                                                                                          |
| H162<br>H164        | Height "Z" coordinate to ground at curb weight.<br>Height "Z" coordinate to ground.                                                                                                                                                                                                                                                                                                      |
| Front C             | ompartment Dimensions ACCELERATOR WHEEL 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                                                                                                                                                                                                                  |
| L17                 | wheel rim. 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                                                                                                                                                                                                                 |
| L23                 | J1100) NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on                                                                                                                                                                                                                                                                               |
| L31                 | 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). 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 underpressed 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 |
| L40                 | manufacturer shall place foot flat on pedal and note the depression of the pedal.  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                                                                                                                              |
| L42                 | position specified by the manufacturer. 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                                                                                                                                                                                                                                                                             |
| L46                 | leg. 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.                                                                                                                      |

excluding the door assist strap and attaching parts.

. . . . . . . . . . . . . . .

| CENTER. The dimension measured vertically from the AHP-<br>front to the intersection of the steering column centerline<br>to a plane tangent to the upper surface of the steering |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| wheel rim.                                                                                                                                                                        |
| STEERING WHEEL ANGLE. The angle measured from a                                                                                                                                   |
| vertical to the surface plane of the steering wheel.                                                                                                                              |
| SaRP-FRONT TO HEEL. The dimension measured vertically                                                                                                                             |
| from the SgRP-front to the accelerator heel point.                                                                                                                                |
| UPPER BODY OPENING TO GROUND-FRONT. The                                                                                                                                           |
| dimension measured vertically from the trimmed body                                                                                                                               |
|                                                                                                                                                                                   |
| opening to the ground on the SgRP-front "X" plane.                                                                                                                                |
| EFFECTIVE HEAD ROOM-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).                                                                                                                                              |
| FLOOR COVERING THICKNESS - UNDEPRESSED - FRONT.                                                                                                                                   |
| The dimension measured vertically from the surface of the                                                                                                                         |
|                                                                                                                                                                                   |

fore and aft of the SgRP-front.

if other than round.

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.)

STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define

ACCELERATOR HEEL POINT TO THE STEERING WHEEL

#### Rear Compartment Dimensions

the accelerator heel point.

W5

W9

H7

L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.

undepressed floor covering to the underbody sheet metal at

- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- 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 SaRP-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.

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

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

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

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP third.
- L86 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SyRP-third plus 254 mm (10.0 in).
- L87 KNEE CLEARANCE-THIRD. The minimum of mension from the knee pivot center to the back of second scattlack minus a constant of 51 mm (2.0in.). With rear-lacing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same manner as
- 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/MPV - Cargo Space Dimensions

- 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 CARGOLENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

- L202 CARGOLENGTH-CLOSED-FRONT. The 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.
- 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.
- CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y"
- 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.
- W500 CARGO WIDTH AT FLOOR. The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.
- 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.
- H2O2 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.
- H505 MAXIMUM CARGO HEIGHT. The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.

Interior Vehicle And Body Dimensions - Key Sheet Dimensions Definitions

V2 STATION WAGON
Measured in inches:

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

Measured in mm:

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

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.

V5 TRUCKS AND MPV'S WITH OPEN AREA.

Measured in inches:

Measured in mm:

V6 TRUCKS AND MPV'S WITH CLOSED AREA. ...
Measured in inches:

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

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^5} - m^3 (cubic meter)$$

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:

$$\frac{H201 \times L205 \times \frac{W4 \cdot W201}{2}}{1728} - ft^{3}$$

Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 \cdot W201}{2}}{10^5} - m^3 (cubic meter)$$

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. 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. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is towed 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 SEATBACK. 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:

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

Measured in mm:

$$\frac{L208 \cdot L209}{2} \times W4 \times H197$$

$$\frac{2}{10^9} - m^3 (cubic meter)$$

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:

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

Measured in mm:

$$\frac{L210-L211}{2} \times W4 \times H198$$

$$-m^{3}(cubic meter)$$

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