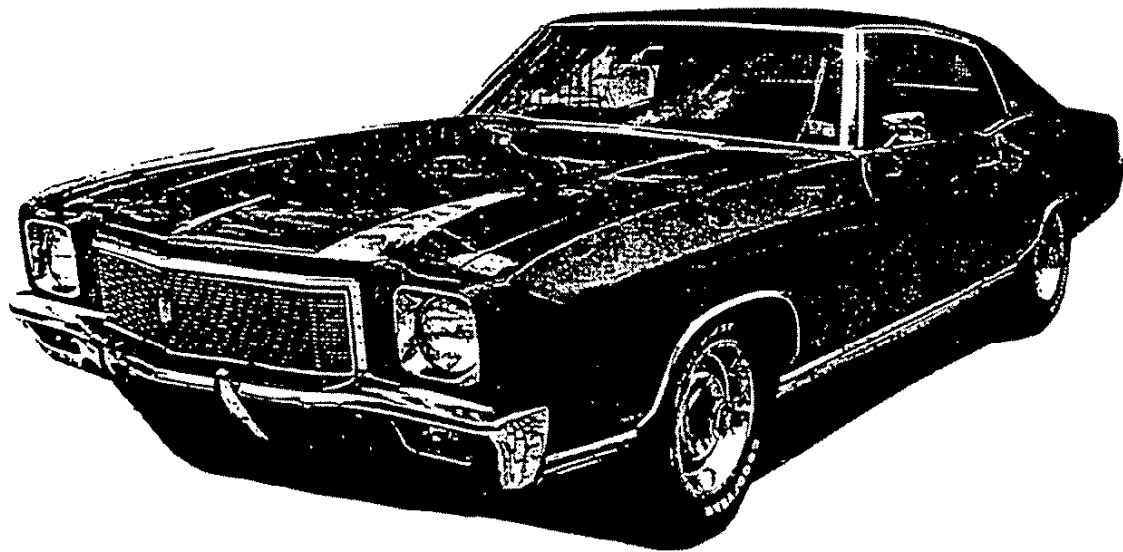




# Chevrolet

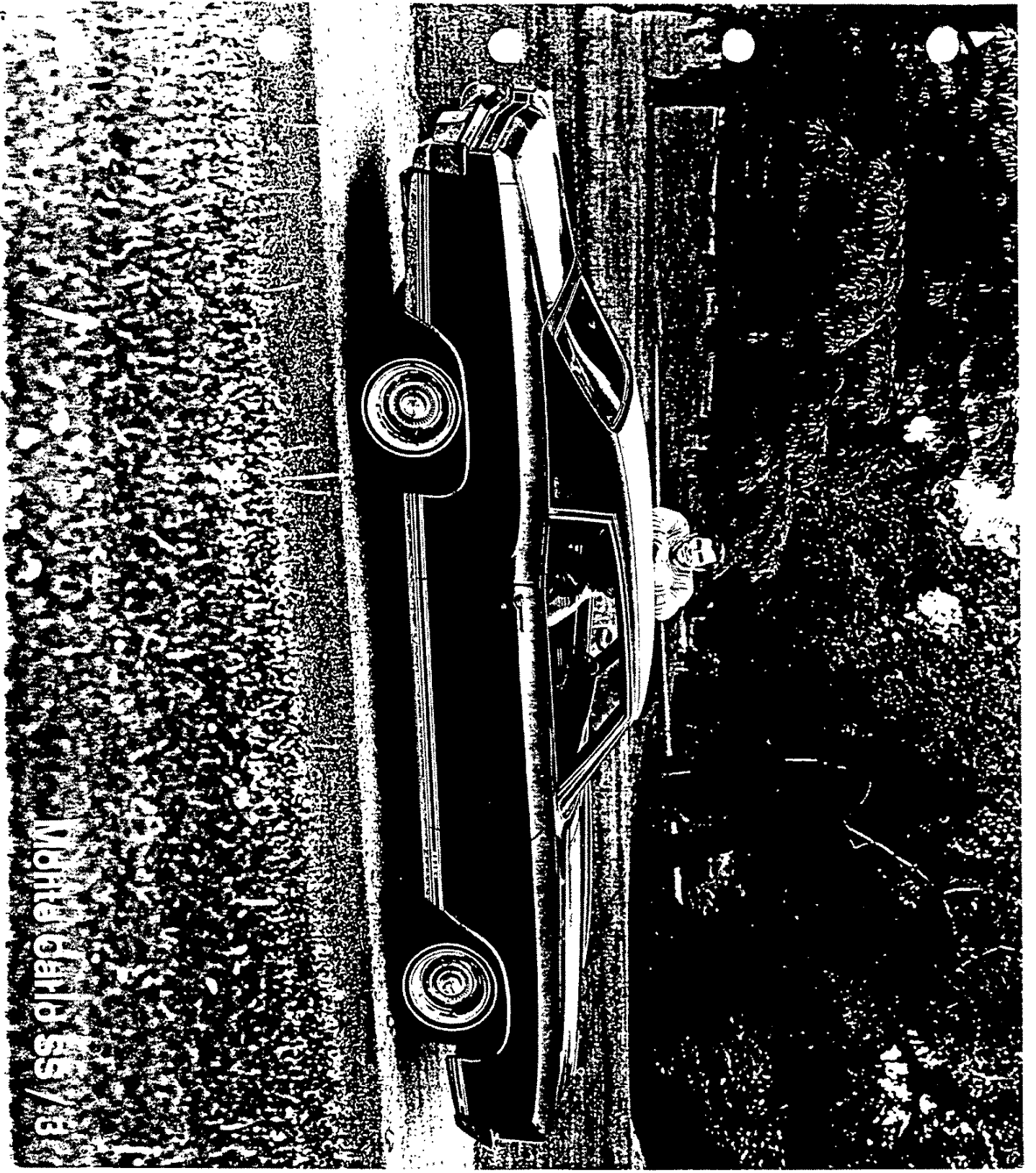


*1971 Monte Carlo*



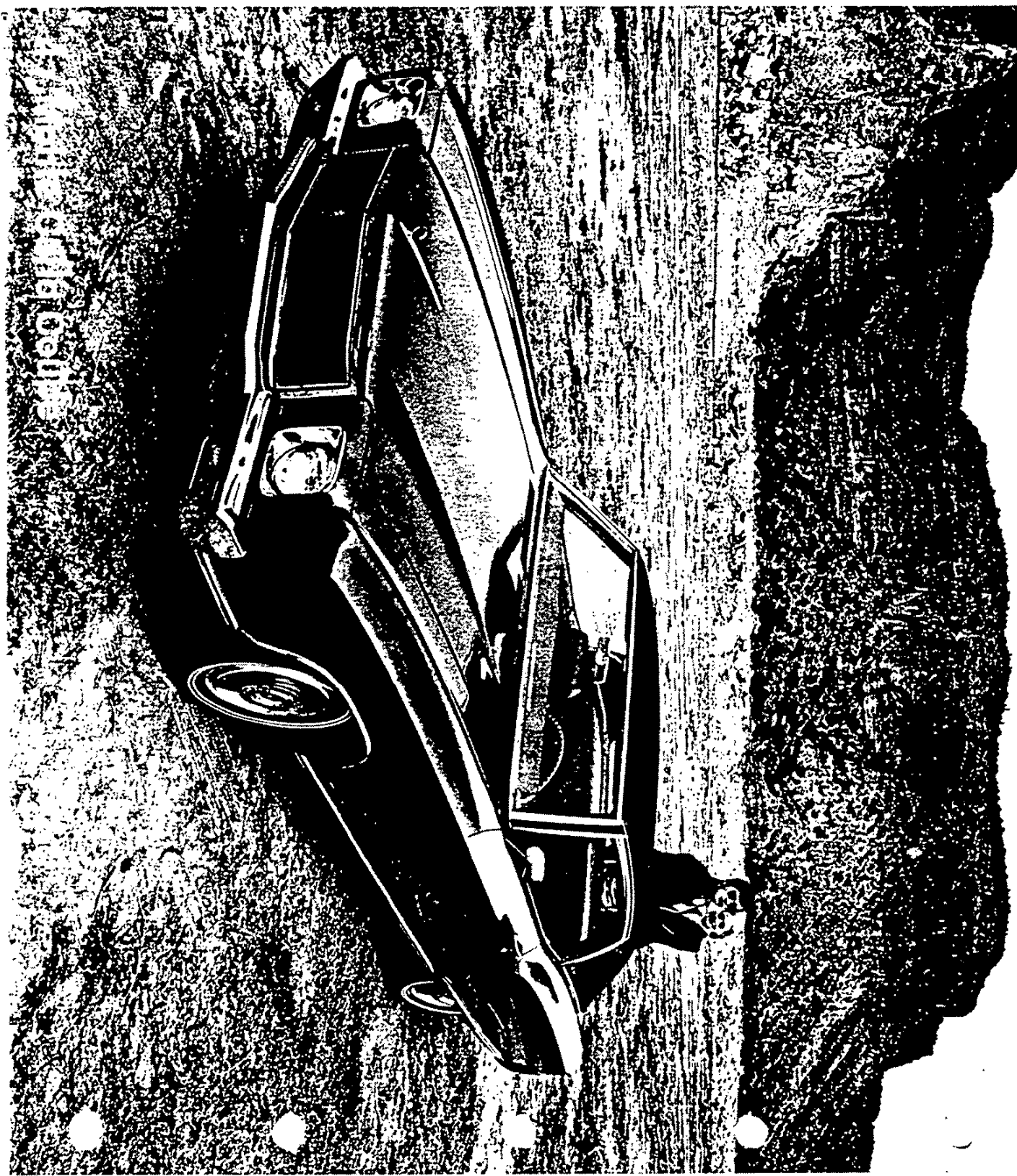
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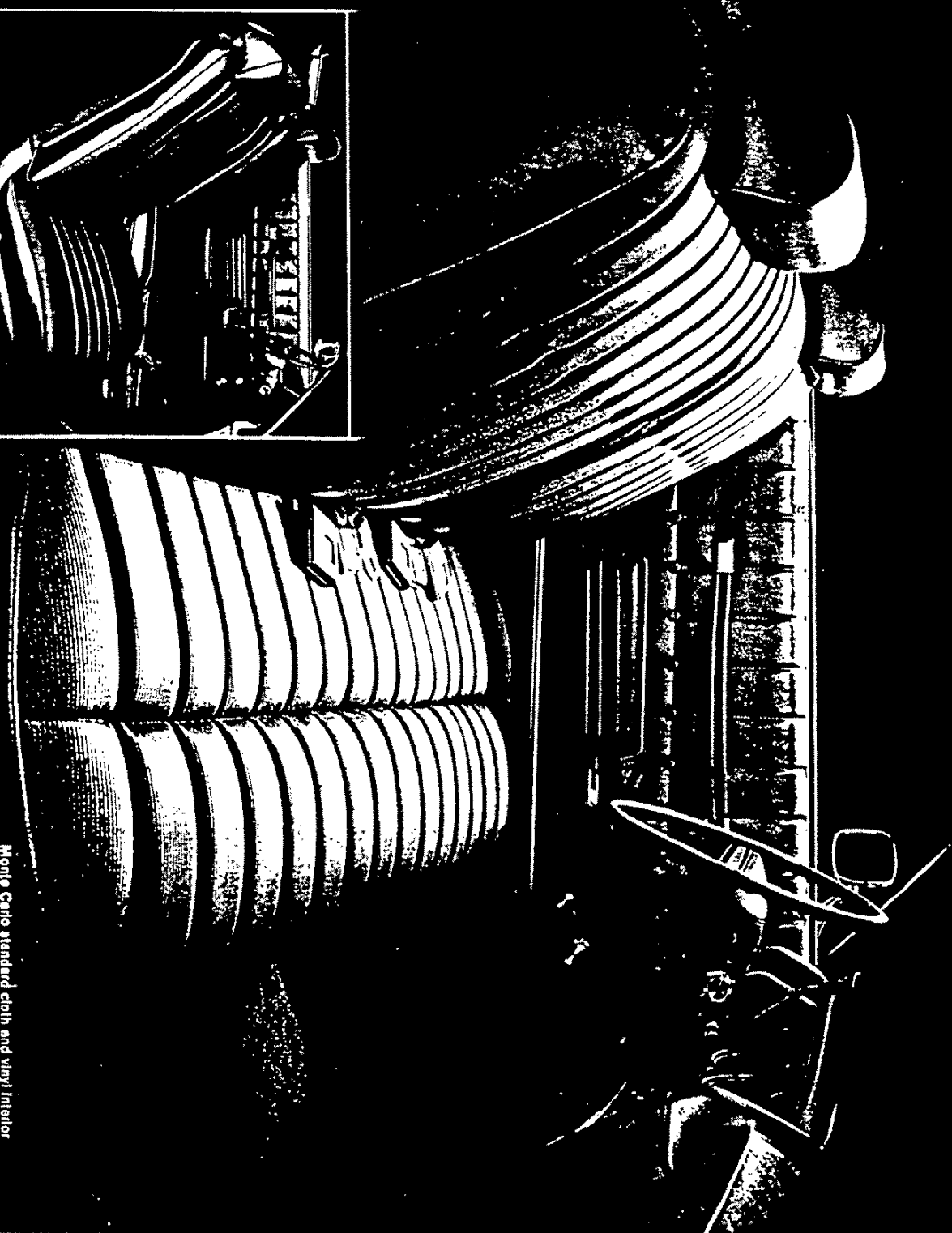


MERCEDES-BENZ









Monte Carlo Stereo-bucket seat interior in cloth and vinyl.  
Also available in all-vinyl!

Monte Carlo standard cloth and vinyl interior

Monte Carlo Interiors / 5





Interior Trim

| model | seal style              | Black |       | Dark Blue |       | Dark Jade |       | Saddle |       | Sandalwood |       |
|-------|-------------------------|-------|-------|-----------|-------|-----------|-------|--------|-------|------------|-------|
|       |                         | cloth | vinyl | cloth     | vinyl | cloth     | vinyl | vinyl  | vinyl | cloth      | cloth |
| Coupe | conventional            | 708   |       | 728       |       | 734       |       |        |       | 717        |       |
|       | Strato-Bucket (RPO AS1) | 707   | 710   | 727       |       | 733       | 729   |        | 723   | 716        |       |

Exterior Colors

|                       | code | Black         |       | Dark Blue |       | Dark Jade |       | Saddle |       | Sandalwood |       |
|-----------------------|------|---------------|-------|-----------|-------|-----------|-------|--------|-------|------------|-------|
|                       |      | cloth         | vinyl | cloth     | vinyl | cloth     | vinyl | vinyl  | vinyl | cloth      | cloth |
| Turbo Black           | 19   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Mulsanne Blue         | 26   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Ascol Blue            | 24   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Classic Copper        | 67   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Placer Gold           | 53   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Lime Green            | 43   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Cottonwood Green      | 42   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Antique Green         | 49   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Burnt Orange          | 62   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Clamberg Red          | 75   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Rosewood Metallic     | 78   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Sandalwood            | 61   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Florida Silver        | 13   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Antique White         | 11   | •             |       | •         |       | •         |       | •      |       | •          |       |
| Sunflower Yellow      | 52   | •             |       | •         |       | •         |       | •      |       | •          |       |
| two tone combinations |      |               |       |           |       |           |       |        |       |            |       |
| lower color           | code | upper color   | code  |           |       |           |       |        |       |            |       |
| Mulsanne Blue         | 26   | Antique White | 11    | •         |       |           |       | •      |       | •          |       |
| Placer Gold           | 53   | Antique White | 11    | •         |       |           |       | •      |       | •          |       |
| Antique Green         | 49   | Antique White | 11    | •         |       |           |       | •      |       | •          |       |
| Lime Green            | 43   | Antique White | 11    | •         |       |           |       | •      |       | •          |       |
| Burnt Orange          | 62   | Antique White | 11    | •         |       |           |       | •      |       | •          |       |
| Sandalwood            | 61   | Antique White | 11    | •         |       |           |       | •      |       | •          |       |

6 / Monte Carlo color and trim



Vinyl Roof Cover\* Color Choices (RPO C08)

| vinyl roof color | code | exterior color availability:   |
|------------------|------|--|
| Black            | BB   | all exterior colors  |
| Dark Blue        | CC   | Tuxedo Black, Nevada Silver, Antique White, Ascot Blue or Malabar Blue       |
| Dark Brown       | FF   | Classic Copper, Burnt Orange, Rosewood Metallic, Sandalwood or Antique White |
| Dark Green       | GG   | Tuxedo Black, Lime Green, Cottonwood Green, Antique Green or Antique White   |
| White            | AA   | all exterior colors  |

\*Optional at extra cost.

Note: Roof and rear quarter belt molding inside surfaces match vinyl roof color.

Seat and Shoulder Belt Colors

| vinyl roof color | interior trim color | standard belts | custom deluxe belts* |
|------------------|---------------------|----------------|----------------------|
| Black            | Black               | Black          | Black                |
| Dark Blue        | Black               | Black          | Dark Blue            |
| Dark Jade        | Black               | Black          | Dark Jade            |
| Saddle           | Black               | Black          | Beige                |
| Sandalwood       | Black               | Black          | Sandalwood           |

\*Available at extra cost.

Note: Standard seat and shoulder belt buckles black; Custom Deluxe buckles brush-finished.

Monte Carlo color and trim / 7



Engines, Transmissions and Axle Ratios

| Engines  | Transmissions and rear axle ratios |                      |            |                   |
|--|------------------------------------|----------------------|------------|-------------------|
|  | 3-Speed (2.34:1 low)               | 4-Speed (2.52:1 low) | Powerglide | Turbo Hydra-matic |
| Standard V8  | 3.08                               |                      | 3.08       | 2.73*             |
| (RPO L48)<br>270-hp (175Δ) Turbo-Fire 350 V8                             |                                    | 3.31                 |            | 2.73              |
| (RPO LS3)<br>300-hp (280Δ) Turbo-Jet 400 V8                              |                                    | 3.31                 |            | 2.73              |
| 365-hp (285Δ) Turbo-Jet 454 V8<br>(Included with Monte Carlo SS RPO Z20) |                                    |                      |            | 3.31              |

▲SAE net (as installed) horsepower \*Trailing ratio: 3.31:1

Note: Powerglide rear axle available in all axle ratios.

Equipment Included With Optional\* V8 Engines

|   | 270-hp (175Δ) 350 | 300-hp (280Δ) 400 | 365-hp (285Δ) 454** |
|---|-------------------|-------------------|---------------------|
| Special front and rear springs                          |                   |                   | •                   |
| Heavier duty shock absorbers                            |                   | (rear only)       | •                   |
| Rear axle ring gear—8.875" dia.                         |                   | •                 | •                   |
| Single exhaust (2½-in. dia.)                            | •                 | •                 | •                   |
| Dual exhaust (2½-in. dia.)                              |                   | •                 | •                   |
| Larger capacity radiator                                |                   | •                 | •                   |
| Heavier duty battery                                    |                   |                   | •                   |
| 15 x 7 Rally Wheels                                     |                   |                   | •                   |
| Automatic Level Control                                 |                   |                   | •                   |
| Heavier duty clutch                                     |                   | •                 | •                   |
| Higher performance starting motor                       |                   | •                 | •                   |
| Deep cover fuel pump and vapor return line to fuel tank |                   | •                 | •                   |
| Heavier front stabilizer                                |                   |                   | •                   |
| Rear stabilizer   |                   |                   | •                   |

▲SAE net (as installed) horsepower \*Optional at extra cost. \*\*Included with Monte Carlo SS equipment (RPO Z20).

# 8 / Monte Carlo power teams



### Transmissions

|                                       | engine   | transmission gear ratios (1:1)   |      |      |      |      | shift selector locations |                |
|---------------------------------------|--|--|------|------|------|------|--------------------------|----------------|
|                                       |  | 1  | 2    | 3    | 4    | R    | column                   | floor console* |
| 3-Speed Fully Synchronized (standard) | 245-hp (165 $\Delta$ ) V8                              | 2.54   | 1.50 | 1.00 |      | 2.63 | *                        |                |
| 4-Speed Fully Synchronized (RPO M20)  | 270-hp (175 $\Delta$ ) V8<br>300-hp (260 $\Delta$ ) V8 | 2.52   | 1.88 | 1.46 | 1.00 | 2.59 | *                        | *              |
| Powerglide (RPO M35)                  | 245-hp (165 $\Delta$ ) V8                              | Drive (max.)—3.70:1 to 1:1<br>Low and Reverse—3.70:1 to 1.76:1   |      |      |      |      |                          |                |
| Turbo Hydra-matic (RPO M40)           | 300-hp (260 $\Delta$ ) V8<br>365-hp (285 $\Delta$ ) V8 | Drive (max.)—5.29:1 to 1:1<br>Low 2—5.29:1 to 1.52:1<br>Low 1—5.29:1 to 2.52:1<br>Reverse—4.05:1 to 1.93:1 |      |      |      |      |                          |                |
|                                       |  | Drive (max.)—5.21:1 to 1:1<br>Low 2—5.21:1 to 1.48:1<br>Low 1—5.21:1 to 2.48:1<br>Reverse—4.37:1 to 2.08:1 |      |      |      |      |                          |                |
|                                       |  | *Optional at extra cost  |      |      |      |      |                          |                |

▲ SAE net (as installed) horsepower

### Clutches for Monte Carlo 3- and 4-Speed Transmission Power Teams

|                                    | 270-hp (175 $\Delta$ ) 350 V8   | 300-hp (260 $\Delta$ ) 400 V8 |
|------------------------------------|---|-------------------------------|
| Clutch type                        | Semi-centrifugal bent-finger design diaphragm spring with single dry disc |                               |
| Disc facing material               | woven asbestos  |                               |
| Disc facing outside diameter       | 10.34"  | 11.00"                        |
| Disc facing total area (sq. in.)   | 101.54  | 127.30                        |
| Spring effective plate load (lbs.) | 2100-2300   | 2450-2750                     |

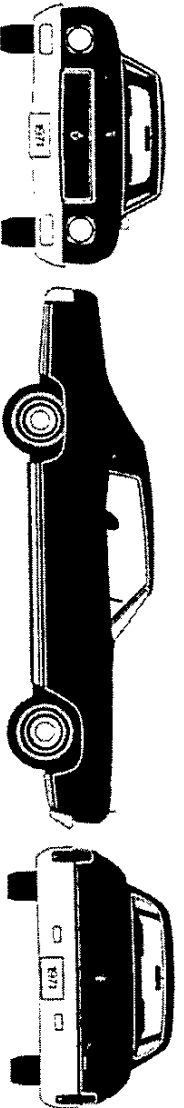
▲ SAE net (as installed) horsepower





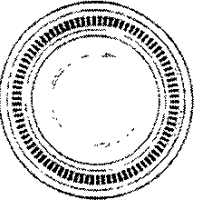
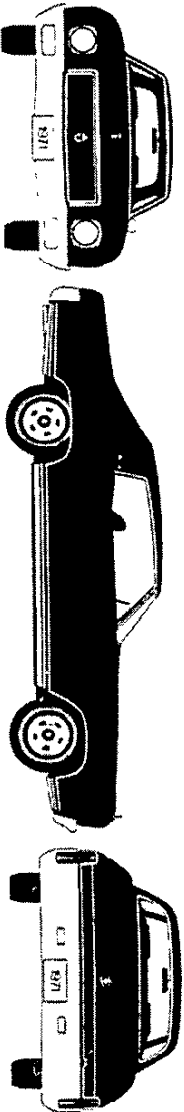
*Monte Carlo*

Monte Carlo Coupe

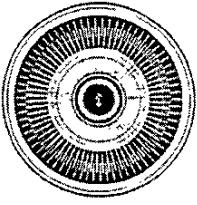


**SS4154**

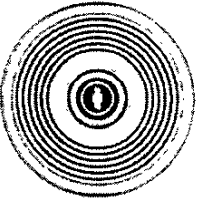
Monte Carlo SS



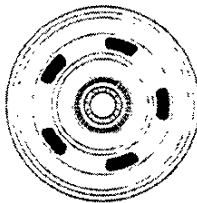
Monte Carlo standard wheel cover



Custom Wheel Cover (RPO P02)



Deluxe Wheel Cover (RPO PA3)



Rally Wheel (RPO ZJ7) included with SS

# 10 / Monte Carlo exterior features

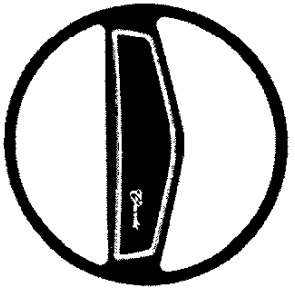
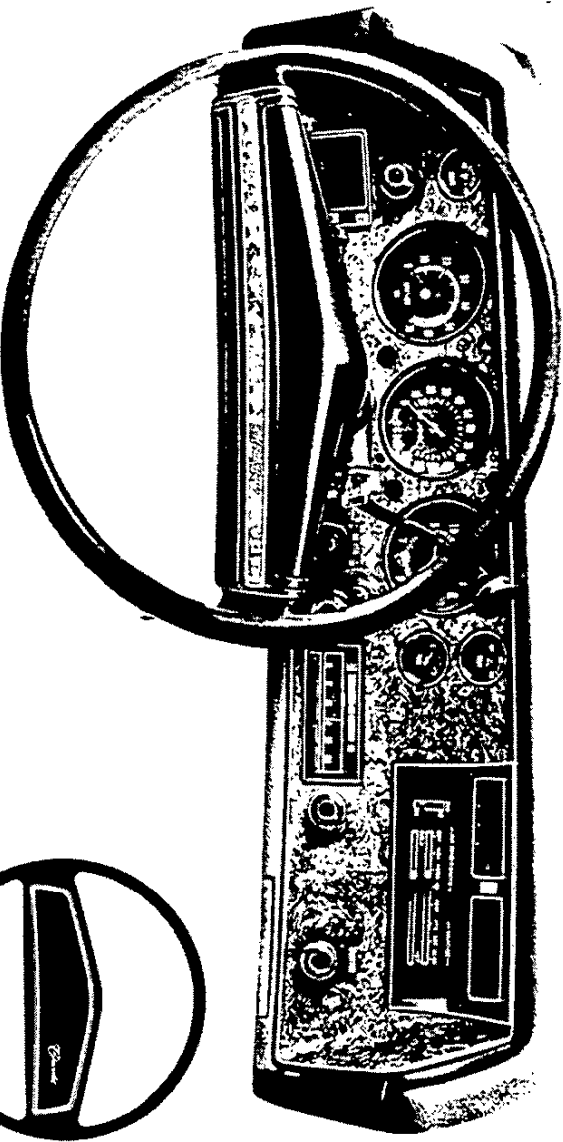


| Monte Carlo Exterior Features                                       | Monte Carlo Coupe | Monte Carlo SS |
|---|-------------------|----------------|
| Bright precision-cast grille with center crest                      | •                 | •              |
| High-output Power-Beam headlights with bright frames                | •                 | •              |
| Rectangular parking/direction signal lights built into front bumper | •                 | •              |
| Hood windshield molding with emblem                                 | •                 | •              |
| Windshield molding  | •                 | •              |
| Hide-A-Way windshield wipers  | •                 | •              |
| Hood rear edge molding  | •                 | •              |
| Full door-glass styling   | •                 | •              |
| Monte Carlo roof rear quarter nameplate                             | •                 | •              |
| SS 454 nameplate in front fender lower molding                      | •                 | •              |
| Rectangular outside rearview mirror                                 | •                 | •              |
| Bright roof drip moldings   | •                 | •              |
| Bright door and rear quarter bolt moldings                          | •                 | •              |
| Side marker lights—front and rear                                   | •                 | •              |
| Black-accented lower body, body sill and fender moldings            | •                 | •              |
| Bright wheel opening moldings                                       | •                 | •              |
| Full wheel covers   | •                 | •              |
| Wide-rim 15 x 7 Rally wheels  | •                 | •              |
| Rear window molding   | •                 | •              |
| Bright rear end panel molding                                       | •                 | •              |
| Single-unit vertical taillights with bright accents                 | •                 | •              |
| Rectangular back-up lights built in rear bumper                     | •                 | •              |
| Deck lid crest with integral lock                                   | •                 | •              |

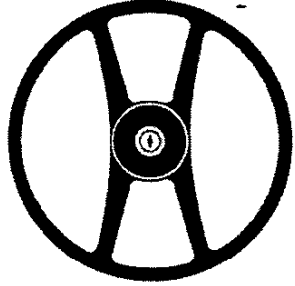
EC—Extra cost



| Monte Carlo Interior Features                                      | Coupe | SS |
|--|-------|----|
| Oral steering wheel with emblem                                    | •     | •  |
| Simulated wood burl accents on instrument panel and steering wheel | •     | •  |
| Simulated wood instrument cluster surface                          | •     | •  |
| Astro Ventilation vent-ports                                       | •     | •  |
| Electric clock   | •     | •  |
| Automatic Ignition key alarm                                       | •     | •  |
| Glove compartment lock and light                                   | •     | •  |
| Illuminated heater control panel                                   | •     | •  |
| Cigarette lighter  | •     | •  |
| Oil pressure, temperature, and generator warning light             | •     | •  |
| Parking brake and brake system warning light                       | •     | •  |
| Soft turn signal and shift lever knobs                             | •     | •  |
| Padded instrument panel and sun visors                             | •     | •  |



Custom Steering Wheel (RPO RK2)



Sport Steering Wheel (RPO RK4)

## 12 / Monte Carlo interior features



| Monte Carlo Interior Features                       | Coupe | SS |
|---|-------|----|
| Convenient T-handle parking brake release           | •     | •  |
| With day-night rearview mirror                      | •     | •  |
| Foot-operated parking brake                         | •     | •  |
| Suspended accelerator pedal                         | •     | •  |
| Bright forward-mounted door lock buttons            | •     | •  |
| Clear window regulator handles                      | •     | •  |
| Padded front door armrests with bright accents      | •     | •  |
| Rear seat armrests with built-in ashtrays           | •     | •  |
| Scuff-resistant plastic coat side panels            | •     | •  |
| Vinyl assist grips on doors                         | •     | •  |
| Extra-thick foam cushioned front and rear seats     | •     | •  |
| Drop-tail carpeting on floor, lower door trim panel | •     | •  |
| Vinyl-coated perforated headlining                  | •     | •  |
| Center dome light with bright bezel                 | •     | •  |
| Vinyl-coated luggage compartment mat                | •     | •  |





### Exterior Dimensions

|                             | Coupe |
|-----------------------------|-------|
| Wheelbase                   | 116.0 |
| Length (overall)            | 206.5 |
| Width (overall)             | 75.6  |
| Height (load <sup>1</sup> ) | 52.9  |
| Front load                  | 60.3  |
| Rear load                   | 50.3  |

### Interior Roominess

|                       |      |
|-----------------------|------|
| Head room—front       | 37.6 |
| Head room—rear        | 36.3 |
| Leg room—front        | 42.8 |
| Leg room—rear         | 32.3 |
| Hip room—front        | 59.4 |
| Hip room—rear         | 53.0 |
| Shoulder room—front   | 58.0 |
| Shoulder room—rear    | 56.6 |
| Front entrance height | 29.5 |

### Luggage Compartment

|                                | Coupe |
|--------------------------------|-------|
| Maximum opening width          | 48.5  |
| Loading height                 | 25.7  |
| Interior length (max.)         | 49.0  |
| Interior width (max.)          | 72.0  |
| Interior height (max.)         | 18.0  |
| Usable luggage space (cu. ft.) | 12.9  |

### Glass Area

|                                  |        |
|----------------------------------|--------|
| Windshield glass area (sq. in.)  | 1298.7 |
| Rear window glass area (sq. in.) | 1059.4 |
| Total glass area (sq. in.)       | 3493.5 |

### Tire Size & Steering Specifications

|                                   |              |
|-----------------------------------|--------------|
| Standard tire size                | G78 x 15*    |
| Turning circle—curb-to-curb (ft.) | 42.0         |
| Turning circle—wall-to-wall (ft.) | 45.5         |
| Steering ratio—std. (overall)     | 28.7:1       |
| Steering ratio—power (overall)    | 18.7 to 12.4 |

### Fuel Capacity & Weight

|                                    |      |
|------------------------------------|------|
| Rated fuel tank capacity (gallons) | 19   |
| Curb weight—(lbs.)                 | 3594 |
| Shipping weight—(lbs.)             | 3496 |

\* G70 x 15 white stripe tires and 15 x 7 wheels included with SS equipment.



# GENERAL

|   |     |
|---|-----|
| MODEL IDENTIFICATION .....              | 2   |
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## MODEL IDENTIFICATION

**MONTE CARLO SPORT COUPE**  
MODEL 13857 2-DOOR SPORT COUPE, 5-PASSENGER

# SERIAL NUMBERS AND IDENTIFICATION

## ONLY BASIC DESIGNATIONS SHOWN

### VEHICLE SERIAL NUMBER

8-Cylinder Example:

| Model | Model Year | Assembly Plant | Unit Number<br>(1st unit) |
|-------|------------|----------------|---------------------------|
| 13857 | 1971<br>1  | Baltimore<br>B | 100001                    |

Thus: The 1st model built at Flint would be serial number 138571B100001

### ASSEMBLY PLANTS

B - Baltimore-GMAD    K - Leeds-GMAD  
L - Van Nuys-GMAD

Canadian Plant  
No. "1" Oshawa

Starting unit number . . . . . 100001 and up at  
each assembly plant regardless of series  
Location . . . . . Stamped on plate attached  
to top left hand of instrument panel.

### TRANSMISSION IDENTIFICATION

● Example: S1E01

| Type        | Source      | Model Year | Production <sup>o</sup><br>Month & Date |
|-------------|-------------|------------|---|
| Designation | Designation | 1971       | Month & Date                            |
| R4          | S (Muncie)  | 1          | E01D*                                   |

|    |                   |            |                                     |
|----|-------------------|------------|-------------------------------------|
| R4 | 3-Speed           | V-8        | S - Muncie                          |
| WT | 4-Speed           | V-8 engine | P - Muncie                          |
| TK | Powerglide        | V-8 engine | C - Cleveland<br>E - Mc Kinnon Ind. |
| HP | Turbo Hydra-Matic | V-8 engine | B - Cleveland<br>Y - Toledo         |
| CY | Turbo Hydra-Matic | V-8 engine | - - Ypsilanti                       |

- 3-Speed . . . . . Stamped on left side just below cover.
- 4-Speed . . . . . Stamped on the right side of the case at adapter.
- Powerglide & Turbo Hydra-Matic (Chevrolet) . . . . . Stamped on right hand side of pan.
- Turbo Hydra-Matic . . . . . Nameplate tag on right hand side of the case.

<sup>o</sup>Month: E denotes May; (see below) 01 denotes 1st day  
Alpha Characters used in identifying the calendar Month

|              |           |               |              |
|--------------|-----------|---------------|--------------|
| A - January  | D - April | K - July      | R - October  |
| B - February | E - May   | M - August    | S - November |
| C - March    | H - June  | P - September | T - December |

- \*The letter "D" or "N" following the date numerals indicates day or night shift, on automatic only.

### ENGINE IDENTIFICATION

Example: F1210CGA

| Source Designation | Production*<br>Month & Date | Type Designation |
|--------------------|-----------------------------|------------------|
| F (Flint)          | 1210                        | CGA              |

Turbo-Fire 350, 350 Cubic Inch V-8, Base Engine

CGA - Regular engine, 3-Speed, 2-bbl. carb.  
CGB - Regular engine, Powerglide, 2-bbl. carb.  
CNM - Regular engine, Turbo Hydra-Matic (Chevrolet)

Turbo-Fire 350, 350 Cubic Inch V-8 (RPO-L48)

CJG - Optional engine, 4-speed, 4-bbl. carb.  
CJD - Optional engine, Turbo Hydra-Matic (Chevrolet)

Turbo-Jet 400, 402 Cubic Inch V-8 (RPO-LS3)

CLA - Optional engine, 4-speed, 4-bbl. carb.  
CLB - Optional engine, Turbo Hydra-Matic

Turbo-Jet 454, 454 Cubic Inch V-8 (RPO-LS5)

- CPD - Optional engine, Turbo Hydra-Matic

Turbo-Jet 454, 454 Cubic Inch V-8 (RPO LS6)

- CPZ - Optional engine, 4-speed, 4-bbl. carb.
- CPY - Optional engine, Turbo Hydra-Matic (Chevrolet)

Location:

8-cylinder engine . . . . . Stamped on pad at front right side of cylinder block.

\* - Month: December, 12; 10th day of December, 10.

### REAR AXLE IDENTIFICATION

Location, Identification Number

Bottom left or right of axle tube adjacent to carrier housing.

See Power Train Section for additional information.

# EXTERIOR EQUIPMENT

## STANDARD EXTERIOR EQUIPMENT

| FRONT  | MONTE CARLO |
|--|-------------|
| Bright Hood Center Windsplit Molding and Ornament                      | X           |
| Bright Windshield Reveal Molding                                       | X           |
| Concealed Windshield Wipers with Articulated Left Blade                | X           |
| Bright Hood and Fender Rear Molding                                    | X           |
| Rectangular Bumper—Mounted Parking Lamp with Clear Lens and Amber Bulb | X           |
| Bright Die Cast Radiator Grille  | X           |
| Single Headlamps   | X           |
| Bright Headlamp Bezels   | X           |
| Radiator Grille Crest Emblem   | X           |

| SIDE   |   |
|--|---|
| Sail Panel Nameplate "Monte Carlo"—Script  | X |
| Rectangular Outside Rear View Mirror   | X |
| Between Wheels—Black Accented Body Side Lower Molding, and Black Painted Rocker with Bright Molding; Fore and Aft of Wheels—Black Accented One Piece Molding | X |
| Bright Drip Molding  | X |
| Bright Wheel Opening Moldings  | X |
| Wheel Trim Covers  | X |
| Front Marker Lamp with Amber Lens (Framed in Fender Molding)   | X |
| Rear Marker Lamp with Red Lens (Framed in Quarter Molding)   | X |
| Bright Weather Strip Retainers   | X |

| REAR   |   |
|--|---|
| Rear End Panel Nameplate "Monte Carlo By Chevrolet"—Script and Block | X |
| Rear Window Reveal Molding   | X |
| Separate Bumper—Mounted Backup Lamps                                 | X |
| Tail Lamp Mounted in Rear Quarter End Cap; Bright Molding on Lens    | X |
| Bright Rear End Panel Molding  | X |
| Bright Molding Framing Upper Half of Tail Lamp                       | X |
| Rear Deck Lid Crest  | X |

**STANDARD INTERIOR EQUIPMENT**

| ROOF AND PILLARS   | MONTE CARLO |
|--|-------------|
| Premier Vinyl Coated Headlining-Perforated                 | X           |
| Trim Color Windshield, Roof Rail and Rear Window Trim Lace | X           |
| 12-Inch Prismatic Rear View Mirror with Gray Padded Edge   | X           |
| Dull Chrome Rear View Mirror Support                       | X           |
| Padded Sunshades   | X           |
| Air Gap Windshield Pillars                                 | X           |
| Trim Color Plastic Coat Hooks                              | X           |
| Bright Bezeled Center Dome Lamp                            | X           |
| Front Door Jamb Switches                                   | X           |
| Front Seat Shoulder Belt Anchor Cover (Belt Color)         | X           |
| Front Seat Shoulder Belt Clip Retainers                    | X           |
| Embossed Board Rear Package Shelf                          | X           |

| SEATS AND FLOOR COVERING                               |   |
|--|---|
| Front Seat Cushion with 2.00-Inch Foam Pad             | X |
| Rear Seat Cushion with 1.75-Inch Foam Pad              | X |
| Black Front Seat Adjuster Handle                       | X |
| Bright Folding Front Seat Back Latch                   | X |
| Front Seat Head Restraints                             | X |
| Front and Rear Seat Belts - Six                        | X |
| Front Seat Shoulder Belts - Two                        | X |
| Carpeting Along Back of Front Seat at Bottom           | X |
| Front Seat Belt Anchor Cover (Belt Color)              | X |
| Carpet Passenger Compartment Floor Covering            | X |
| Luggage Compartment Spatter Paint                      | X |
| Luggage Compartment Mat (Rubber and Foam Backed Vinyl) | X |

| DOOR AND QUARTER PANEL   |   |
|--|---|
| Front Door Padded Armrest with Bright Backing Plate  | X |
| Built-In Rear Quarter Panel Armrest with Ash Tray  | X |
| Clear Plastic Window Control Handle Knobs  | X |
| Bright Door Lock Buttons   | X |
| Padded Vinyl Door and Quarter Panel Trim (Elk Texture);<br>Carpeting Along Bottom of Doors | X |
| Vinyl Door Assist Handle with Bright Escutcheons   | X |
| Formed Map Pocket in Doors   | X |



# INTERIOR EQUIPMENT

## STANDARD INTERIOR EQUIPMENT

| INSTRUMENT PANEL AND STEERING WHEEL  | MONTE CARLO |
|--|-------------|
| Glove Compartment Light  | X           |
| Heater Control Light   | X           |
| Temperature, Generator, Oil Pressure and Brake Warning Lights                      | X           |
| Hi-Beam and Turn Signal Indicators   | X           |
| Bright Cowl Vent Control Knob  | X           |
| Bright Astro-Ventilation Control Knob  | X           |
| Windshield Wiper and Washer Switch (Slide-Type, Depress to Wash)                   | X           |
| Soft Black Lighting Control Knob   | X           |
| Bright Hazard Flasher Knob   | X           |
| Soft Black Turn Signal and Transmission Shift Lever Knobs                          | X           |
| Steering Column Ignition Switch with Integral Steering Wheel and Transmission Lock | X           |
| T-Handle Parking Brake Release   | X           |
| Blended Air Heater   | X           |
| Two-Speed Windshield Wiper and Washer  | X           |
| Ash Tray   | X           |
| Cigarette Lighter with Soft Black Knob   | X           |
| Speedometer, Odometer, Clock and Fuel Gage   | X           |
| Instrument Panel Pad   | X           |
| Instrument Panel Astro-Ventilation Outlets (R&L)                                   | X           |
| Glove Compartment Door Lock  | X           |
| A/C Hole Cover Plate with Bright "Chevrolet" Nameplate                             | X           |
| Wood-Grain Cluster Surface   | X           |
| Steering Wheel with Wood-Grain Insert and "Monte Carlo" Nameplate                  | X           |
| Black Steering Wheel and Column  | X           |

| GLASS   |   |
|---|---|
| Laminated Safety Float Glass Windshield (Thin Design) | X |
| Solid Safety Plate Backlight                          | X |
| Solid Safety Plate Side Windows                       | X |

## EXTRA COST EQUIPMENT

| EQUIPMENT   | RPO | ACC |
|---|-----|-----|
| Air conditioning, Four-Season:  | C60 |     |
| Battery, heavy duty   | T60 |     |
| Belts, seat and shoulder: in addition to or replacing standard belts. |     |     |
| Custom deluxe belts – replacing standard number of belts              | AK1 |     |
| Shoulder belts – 2 rear:  |     |     |
| ● For use when Custom Deluxe Belts are ordered                        |     | ACC |
| Cap, locking gas filler   |     | ACC |
| Carrier, rear deck  |     | ACC |
| Compass   |     | ACC |
| Console, floor (bucket seats required)                                | D55 |     |
| Dispenser, Tissue   |     | ACC |
| Fire extinguisher   |     | ACC |
| Generator: 63-amp Delcotron   | K85 |     |
| Glass, Soft-Ray tinted: all windows                                   | A01 |     |
| Harness, trailer wiring   |     | ACC |
| Hitch, trailer  |     | ACC |
| Highway Emergency Kit – fire extinguisher, tire inflator, fuses       |     | ACC |
| Instrumentation, special  | U14 |     |
| Lighting, auxiliary:  | ZJ9 |     |
| Courtesy lights   |     |     |
| Luggage compartment light   |     | ACC |
| Ash tray light  |     | ACC |
| Underhood light   |     | ACC |
| Litter container  |     | ACC |
| Mirror, RH  |     | ACC |
| Moldings, belt reveal   | B85 |     |
| Monitor, windshield washer fluid                                      |     | ACC |
| Monte Carlo SS equipment  | Z20 |     |
| Radiator, heavy duty  | V01 |     |
| Radio equipment: Radios, Pushbutton – Includes concealed w/s antenna  |     |     |
| AM Radio  | U63 | ACC |
| AM/FM Radio   | U69 | ACC |
| AM/FM/Stereo Radio  | U79 | ACC |
| Stereo Tape System with AM Radio                                      | UM1 | ACC |
| Stereo Tape System with AM/FM/Stereo Radio                            | UM2 | ACC |
| Speaker, rear seat – not available when stereo is ordered             | U80 | ACC |
| Windshield antenna (When no radio is ordered)                         | U76 |     |

# EXTRA COST EQUIPMENT

| EQUIPMENT   | RPO | ACC |
|---|-----|-----|
| Roof cover, vinyl   | C08 |     |
| Safety seat - child   |     | ACC |
| Safety seat - infant  |     | ACC |
| Seats, front bucket   | A51 |     |
| Shock absorbers, rear:  |     |     |
| Superlift with automatic level control  | G67 |     |
| Ski rack - roof mount   |     | ACC |
| Skirts, rear fender   | T58 |     |
| Speed control: (Cruise-Master)  |     |     |
| Available only when automatic transmission is ordered                             | K30 | ACC |
| Steering wheel, Comfortilt: Available only when automatic transmission is ordered | N33 |     |
| Steering wheel, sport   | NK4 |     |
| Steering wheel, Vinyl Rim   | NK2 |     |
| Suspension, special front and rear  | F40 |     |
| Tape player - cassette  |     | ACC |
| W/S wiper control Electro-Tip   | CD3 |     |
| Wheel covers, special   | P02 |     |
| Wheel covers, wire  |     | ACC |
| Wheel Covers, Deluxe  | PA3 | ACC |
| Wheels, Rally   | ZJ7 |     |
| Wheels, 15 x 7 production type  | PH1 |     |

## EXTRA COST EQUIPMENT

| EQUIPMENT   | RPO | ACC |
|---|-----|-----|
| <b>FEATURE GROUPS (Any item contained in a feature group may be ordered separately)</b> |     |     |
| Appearance guard group . . . . .  | ZP5 |     |
| Front and rear bumper guards . . . . .  | V30 | ACC |
| Door edge guards . . . . .  | B93 | ACC |
| Color-keyed floor mats - 2 Front, 2 Rear . . . . .                                      | B37 | ACC |
| Visor vanity mirror . . . . .   | D34 | ACC |
| <br>Operating convenience group . . . . .   | ZQ2 |     |
| Rear window defroster (Forced Air) . . . . .  | C50 |     |
| L.H. outside remote-control rearview mirror . . . . .                                   | D33 | ACC |
| <br><b>POWER ASSISTS</b>  |     |     |
| Door lock system, power . . . . .   | AU3 |     |
| Seat, power: 4-way control: bench front seat . . . . .                                  | A41 |     |
| Seat, power: 4-way: drivers bucket front seat . . . . .                                 | A46 |     |
| Seat back latch, automatic: . . . . .   |     |     |
| Available only when power door lock system is ordered . . . . .                         | AQ2 |     |
| Steering power: variable ratio . . . . .  | N40 |     |
| Trunk opener, power . . . . .   | A90 | ACC |
| Windows, power . . . . .  | A31 |     |

# AIR CONDITIONING

## FOUR-SEASON (RPO C60)

Integral air cooling and heater system. Manually controlled by two horizontal levers on instrument control panel, plus 4-speed fan switch. Upper lever (mode selector control) uses vacuum supply and electrical switches to operate mode doors and compressor. Lower lever uses bowden cable to operate temperature door. Five air outlets: 1 center, 2 side, 2 lower.

## BASIC COMPONENTS

Control panel, evaporator, blower, condenser, receiver-dehydrator, refrigerant (freon) tank, air intake assembly and duct assembly for both systems.

## EQUIPMENT (Used in addition to or in place of base equipment)

### CHASSIS

Front and Rear Springs . . . . . Heavy duty  
Rear Axle Ratio - Refer to Power Trains Section

### POWER TRAINS

Fan Blade . . . . . 7 blade  
Fan Clutch . . . . . Thermomodulated fluid coupling  
Crankshaft Pulley . . . . . Dual  
Water Pump & Fan Pulley . . . . . Single  
Compressor & Crankshaft Belt . . . . . One  
Generator . . . . . 63 Ampere  
Radiator . . . . . Heavy duty

# DIMENSIONS AND WEIGHTS

|                               |   |
|-------------------------------|---|
| INTERIOR DIMENSIONS . . . . . | 2 |
| LUGGAGE CAPACITY . . . . .    | 2 |
| EXTERIOR DIMENSIONS . . . . . | 3 |
| VEHICLE WEIGHTS . . . . .     | 4 |

# INTERIOR DIMENSIONS

## FRONT COMPARTMENT

| CODE | DESCRIPTION                    | SPORT COUPE |
|------|--------------------------------|-------------|
| H3   | Seat cushion height            | 10.5        |
| H11  | Entrance height                | 29.5        |
| H13  | Steering wheel thigh clearance | 4.0         |
| H30  | H point to heel point          | 8.1         |
| H32  | Seat cushion deflection        | 3.9         |
| H50  | Upper body opening to ground   | 48.2        |
| H58  | H point rise                   | 0.8         |
| H61  | Effective headroom             | 37.6        |
| H70  | H point to body O line         | 14.2        |
| H75  | Effective 'T' point headroom   | 37.6        |
| W3   | Shoulder room                  | 58.0        |
| W5   | Hip room                       | 59.4        |
| L7   | Steering wheel torso clearance | 12.1        |
| L17  | H point travel                 | 4.8         |
| L34  | Effective leg room             | 42.8        |

## REAR COMPARTMENT

|     |                              |      |
|-----|------------------------------|------|
| H8  | Seat cushion height          | 12.7 |
| H31 | H point to heel point        | 10.1 |
| H33 | Seat cushion deflection      | 4.7  |
| H63 | Effective headroom           | 36.3 |
| H71 | H point to body O line       | 13.4 |
| H76 | Effective 'T' point headroom | 36.3 |
| W4  | Shoulder room                | 56.6 |
| W6  | Hip room                     | 53.0 |
| L3  | Rear compartment room        | 23.7 |
| L50 | H point couple distance      | 30.6 |
| L51 | Effective leg room           | 32.3 |

## LUGGAGE COMPARTMENT

|      |                                  |      |
|------|----------------------------------|------|
| --   | Opening width                    |      |
| --   | Interior height                  |      |
| --   | Interior width                   |      |
| --   | Interior length                  |      |
| H195 | Liftover height                  | 25.7 |
| V1   | Usable luggage capacity (cu.ft.) | 12.9 |
| --   | Total volume (cu.ft.)            |      |

# EXTERIOR DIMENSIONS

## LENGTHS

| CODE | DESCRIPTION                         | SPORT COUPE |
|------|-------------------------------------|-------------|
| L101 | Wheelbase                           | 116.0       |
| L102 | Tire size (standard)                | G78-15      |
| L103 | Overall length                      | 206.5       |
| L104 | Overhang - front                    | 41.7        |
| L105 | Overhang - rear                     | 48.8        |
| --   | Overall length - less bumpers       |             |
| L127 | Body O line to C/L of rear wheels   | 95.5        |
| L128 | Hood length at centerline           | 69.0        |
| L30  | Body O line to actual front of dash | 0.0         |

## WIDTHS

|      |                                     |       |
|------|-------------------------------------|-------|
| W101 | Tread - front                       | 60.2  |
| W102 | Tread - rear                        | 59.3  |
| W103 | Maximum overall width of car        | 75.6  |
| W106 | Front fender overall width          | 67.6  |
| W107 | Rear fender overall width           | 74.8  |
| W120 | Overall car width, front doors open | 150.0 |

## HEIGHTS

|      |                                |      |
|------|--------------------------------|------|
| H101 | Overall height (design)        | 52.9 |
| --   | Overall height (curb)          |      |
| H102 | Front bumper to ground         | 13.6 |
| H104 | Rear bumper to ground          | 12.8 |
| H111 | Rocker panel to ground - rear  | 7.5  |
| H112 | Rocker panel to ground - front | 8.3  |
| H114 | Hood at rear to ground         | 37.8 |
| H115 | Step height - front (design)   | 12.2 |
| H116 | Step height - rear (design)    | --   |
| H125 | Headlamp to ground             | 27.5 |
| H126 | Tail lamp to ground            | 23.9 |
| H130 | Step height - front (curb)     | 14.0 |
| H131 | Step height - rear (curb)      | --   |
| H136 | Body O line to ground - front  | 4.7  |
| H137 | Body O line to ground - rear   | 4.1  |

## CLEARANCES

|      |                                |            |
|------|--------------------------------|------------|
| H106 | Angle of approach (degrees)    | 25.9       |
| H107 | Angle of departure (degrees)   | 20.8       |
| H147 | Ramp breakover angle (degrees) | 13.7       |
| H148 | Front suspension to ground     | 6.7        |
| H149 | Oil pan to ground              | 5.4        |
| H150 | Flywheel housing to ground     | 5.8        |
| H151 | Frame to ground                | 5.4        |
| H152 | Exhaust system to ground       | 4.7        |
| H153 | Rear axle to ground            | 7.8        |
| H154 | Fuel tank to ground            | 7.5        |
| H155 | Tire well to ground            | --         |
| H156 | Minimum ground clearance       | 4.7 (H152) |



# VEHICLE WEIGHTS

## MONTE CARLO

| MODEL SYMBOL<br>V-8 | VEHICLE TYPE<br>Description | SHIPPING WEIGHT |      |       | CURB WEIGHT |      |       |
|---------------------|-----------------------------|-----------------|------|-------|-------------|------|-------|
|                     |                             | Front           | Rear | Total | Front       | Rear | Total |
| 13857               | 2-Door Sport Coupe          | 1992            | 1496 | 3488  | 1974        | 1612 | 3586  |

SHIPPING WEIGHT: Weight of basic vehicle with regular equipment, including grease, oil and (3) gallons of gasoline, and engine coolant to capacity.

CURB WEIGHT: Shipping weight plus gasoline to capacity.

For total shipping, and curb, weights of vehicles equipped with the following options, add to, or deduct from, the base vehicle weight (lbs.).

## OPTIONAL EQUIPMENT

| RPO | OPTION                               | WITH                           | WEIGHT  |
|-----|--------------------------------------|--------------------------------|---------|
| AQ2 | Electric Seat Back Lock Release      |                                | + 6     |
| AU3 | Electric Door Locks                  |                                | + 8     |
| A31 | Electric Window Control              |                                | + 23    |
| A51 | Astro Bucket Seats                   |                                | + 20    |
| C08 | Vinyl Roof Cover                     |                                | + 7     |
| C60 | Air Conditioning                     |                                | +106    |
| D55 | Console                              | 4-Speed                        | + 10    |
|     |                                      | Automatic                      | + 17    |
| -   | 350 Cu.In. V8 Engine (245 H.P.)      | Powerglide Transmission        | + 2     |
|     |                                      | Turbo Hydra-Matic Transmission | + 29    |
| L48 | 350 Cu.In. V8 Engine (270 H.P.)      | 4-Speed Transmission           | + 32    |
|     |                                      | Turbo Hydra-Matic Transmission | + 29    |
| LS3 | 402 Cu.In. V8 Engine (300 H.P.)      | 4-Speed Transmission           | +217    |
|     |                                      | Turbo Hydra-Matic Transmission | +259    |
| LS5 | 454 Cu.In. V8 Engine (365 H.P.)      | Turbo Hydra-Matic Transmission | +298(a) |
| LS6 | 454 Cu.In. V8 Engine (425 H.P.)      | 4-Speed Transmission           | +242(a) |
|     |                                      | Turbo Hydra-Matic Transmission | +291(a) |
| N10 | Dual Exhaust                         |                                | + 41    |
| N40 | Power Steering                       |                                | + 30    |
| UM1 | AM Pushbutton Radio & Tape Player    |                                | + 18    |
| UM2 | AM-FM Pushbutton Radio & Tape Player |                                | + 21    |
| U63 | AM Pushbutton Radio                  |                                | + 8     |
| U69 | AM-FM Pushbutton Radio               |                                | + 9     |
| U79 | Radio Stereo Equipment               |                                | + 14    |

(a) Available as 'SS' equipment only - includes additional chassis and body equipment.

# BODY

|  |   |
|--|---|
| EXTERIOR PAINT PROCESS . . . . .           | 2 |
| EXTERIOR-INTERIOR COLORS . . . . .         | 3 |
| BODY CONSTRUCTION AND GLASS AREA . . . . . | 4 |

## EXTERIOR PAINT PROCESS

1. **RUSTPROOFING.** Assembled car bodies are chemically sprayed to clean and etch the metal surfaces for corrosion resistance and paint adhesion. Unassembled sheet metal parts follow the same process.
2. **BODY AND SHEET METAL PRIMERS.** Four corrosion resistant primers, specially formulated, are hand sprayed on the body in areas where rust might develop. Lower areas considered especially vulnerable are coated with another rust inhibiting compound.
3. **PRIMER COAT** is applied to all outside and inside surfaces of front fenders and hoods. The parts are mechanically dipped or flow-coated to insure coating in all seams and secluded areas, and baked at 390 degrees F. for 30 minutes. A coat of sealer is then applied by hand spray to all surfaces requiring another coat of lacquer.
4. **FLASH PRIMER AND PRIMER-SURFACER COATS.** An air-dry flash primer coat is hand sprayed on surfaces below the body belt line. Then a gray primer-surfacer coat is hand sprayed on all outside surfaces of the body and oven baked for 45 minutes at 285 degrees F.
5. **INITIAL SANDING.** Power wet sanding, followed by hand sanding, is done on all body surfaces requiring lacquering. This insures a smooth surface for the lacquer finish. To remove the water, the body is wiped and run through an infra-red oven.
6. **LACQUERING.** Three coats of acrylic lacquer are spread on the exterior surfaces of the body and sheet metal parts to build up a finish of the required thickness for each color.
7. **INITIAL BAKING.** To harden the paint for final sanding, the body and sheet metal parts are baked for approximately 10 minutes at 200 degrees F.
8. **FINAL SANDING.** To remove body surface defects, power and hand sanding is done with fine grit sandpaper and mineral spirits as a wetting agent. Sanded areas are wiped to insure a clean surface before final baking.
9. **FINAL BAKING.** To assure a durable, hard, high luster finish the lacquer is baked for 30 minutes at 275 degrees F. Reheating the lacquer after final sanding permits paint film to soften, allowing surface blemishes and sanding scratches to disappear during the thermo-reflow process.
10. **UNDERCOATING.** To block out road noise, an asbestos fiber sound deadener with asphalt base is sprayed inside the wheel housings and on the bottom of the underbody at designated areas.
11. **PAINT REPAIR AND PROTECTION.** Mars, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "slush" polishing brings painted surfaces to a high luster finish. Wax is applied to all horizontal surfaces of each vehicle and polished out for protection during shipment. The wax contains no silicones, thus eliminating any paint contamination problem.

# EXTERIOR-INTERIOR COLORS

## MONTE CARLO 13800 SERIES

| MODEL | Front Seat Type | INTERIOR TRIM COLORS AND RPO NUMBERS |       |           |       |           |            |             |
|-------|-----------------|--------------------------------------|-------|-----------|-------|-----------|------------|-------------|
|       |                 | Black                                |       | Dark Jade |       | Dark Blue | Sandalwood | Dark Saddle |
|       |                 | Cloth                                | Vinyl | Cloth     | Vinyl | Cloth     | Cloth      | Vinyl       |
| 57    | Bench           | 708                                  | -     | 734       | -     | 728       | 717        | -           |
|       | Bucket          | 707                                  | 710   | 733       | 729   | 727       | 716        | 723         |

| VINYL TOP COLORS |       |      |       |       | CODE NO. | EXTERIOR COLOR    |   |   |   |   |   |
|------------------|-------|------|-------|-------|----------|-------------------|---|---|---|---|---|
| Black            | White | Blue | Green | Brown |          |                   |   |   |   |   |   |
| X                | X     | X    | X     | X     | 11       | Antique White     | X | X | X | X | X |
| X                | X     | X    |       |       | 13       | Nevada Silver     | X |   | X | X |   |
| X                | X     | X    | X     |       | 19       | Tuxedo Black      | X | X | X | X | X |
| X                | X     | X    |       |       | 24       | Ascot Blue        | X |   | X | X |   |
| X                | X     | X    |       |       | 26       | Mulsanne Blue     | X |   | X | X |   |
| X                | X     |      | X     |       | 42       | Cottonwood Green  | X | X |   | X |   |
| X                | X     |      | X     |       | 43       | Lime Green        | X | X |   | X | X |
| X                | X     |      | X     |       | 49       | Antique Green     | X | X |   | X | X |
| X                | X     |      |       |       | 52       | Sunflower Yellow  | X | X |   | X | X |
| X                | X     |      |       |       | 53       | Placer Gold       | X |   |   | X | X |
| X                | X     |      |       | X     | 61       | Sandalwood        | X | X |   | X | X |
| X                | X     |      |       | X     | 62       | Burnt Orange      | X |   |   | X |   |
| X                | X     |      |       | X     | 67       | Classic Copper    | X |   |   | X |   |
| X                | X     |      |       |       | 75       | Cranberry Red     | X |   |   | X |   |
| X                | X     |      |       | X     | 78       | Rosewood Metallic | X |   |   | X |   |

| CODE NO. |      | TWO-TONES                      |   |   |   |   |   |
|----------|------|--------------------------------|---|---|---|---|---|
| Lwr.     | Upr. |                                |   |   |   |   |   |
| 26       | 11   | Antique White<br>Mulsanne Blue | X | X | X |   |   |
|          | 11   | Antique White<br>Lime Green    | X | X |   |   | X |
| 49       | 11   | Antique White<br>Antique Green | X | X |   |   | X |
|          | 11   | Antique White<br>Placer Gold   | X | X |   |   |   |
| 61       | 11   | Antique White<br>Sandalwood    | X | X |   | X |   |
| 62       | 11   | Antique White<br>Burnt Orange  | X | X |   | X |   |

# BODY CONSTRUCTION AND GLASS AREA

## GENERAL

Type ..... Unisteel, with cowl, roof, underbody and body panels welded to form body shell. Doors, front and rear lids are of double-panel construction and hinge assembled to body. Separate frame and bolt-on front end sheet metal, with protective inner plastic fender skirts. Side guard door beams. Air gap design windshield pillar molding. Contoured windshield header. Cargo guard luggage barrier.

## DOORS AND LOCKS

Door construction ..... Double steel panels, hinged at front  
 Door handles ..... Push-button with fork type door locks. Inside push-button locks and 2-position free-wheeling inside door handles on all doors.  
 Front door glass ..... Full window

## HOOD AND TRUNK LID

Type ..... Counterbalanced, with spring loaded toggle action hinges on rear of hood and boxed hinges on trunk lid with torsion rod. Two hood stop pins mounted on cowl.

## VENTILATION

High level air intake for passenger compartment ..... with double wall plenum chamber, providing washing and air drying of rocker panels for corrosion resistance. Air and water travel through rocker panels and drain at end of rocker inner panels. Astro Ventilation with instrument panel outlets standard.

## SEAT CONSTRUCTION

Type .....  
 Front seat cushion ..... 2.00 polyfoam  
 Rear seat cushion ..... 1.75 polyfoam

## WINDSHIELD WIPERS

Type ..... Concealed dual 2-speed electric  
 Linkage ..... Parallel acting with articulated left arm.

## SPARE TIRE MOUNT

Location ..... Horizontal, RH side of trunk floor. Tools consist of bumper jack with combination lever handle and wheel nut wrench stored under tire.

## HEADLIGHTS

Type ..... Single power beam units

## BODY GLASS VISIBILITY AREA

|                      |        |
|----------------------|--------|
| Windshield           | 1208.7 |
| Front Door Window    | 936.8  |
| Rear Quarter Window  | 288.6  |
| Rear Window          | 1059.4 |
| Total Area (Sq. In.) | 3493.5 |

# CHASSIS

|   |     |
|---|-----|
| FRAME AND FRONT SUSPENSION . . . . .            | 2-3 |
| STEERING, DRIVELINE, WHEELS AND TIRES . . . . . | 4   |
| REAR AXLE AND SUSPENSION . . . . .              | 5   |
| BRAKES . . . . .                                | 6   |
| BULBS AND LAMPS . . . . .                       | 7   |
| FUSES AND CIRCUIT BREAKERS . . . . .            | 8   |

# FRAME AND FRONT SUSPENSION

## FRAME

Description . . . . . All welded perimeter frame with front crossmember, rear axle upper control arm crossmember, and rear crossmember. Channel center sections. Rear axle kickup box welded construction. Rear of kickup: Channel section. Body Mounting: 8 biscuits +2 cushions

Wheel travel (design)  
 Total . . . . . 7.92  
 Jounce . . . . . 3.92  
 Rebound . . . . . 4.00  
 Wheel to spring, travel ratio . . . . . 1.86

## FRONT SUSPENSION

Description . . . . . Independent, SLA type with coil springs & concentric shock absorbers, and spherically jointed steering knuckles for each wheel.

## CONTROL ARMS

Description . . . . . Stamped 'A' frame with pre-loaded, steel encased rubber bushings at pivot.

## STEERING KNUCKLES

Description . . . . . Forged steel with detachable steering knuckle arm

Spindle diameters  
 Inner bearing . . . . . 1.2493-1.2498  
 Outer bearing . . . . . .7493-.7498  
 Spindle thread size . . . . . 3/4-20 NEF-3 (modified)  
 Wheel bearing  
 Type . . . . . Taper roller  
 Number . . . . . Two per spindle

## SPHERICAL JOINTS

Type . . . . . Ball studs, upper self-adjusting for wear  
 Bearing surfaces  
 Upper . . . . . To be provided  
 Lower . . . . . One bearing; steel

## SHOCK ABSORBERS

Type . . . . . Direct, double-acting, hydraulic  
 Piston diameter . . . . . 1.00

## STABILIZER BAR

Type . . . . . Link  
 Material . . . . . HR steel  
 Diameter . . . . . 0.937

## FRONT WHEEL ALIGNMENT (Curb)

Camber (degrees) . . . . . 0 to P1-1/2  
 Caster (degrees) . . . . . N2 to 0  
 Toe (Total) . . . . . 1/16 to 5/16  
 Steering Axis Inclination  
 (degrees) . . . . . 7-3/4° to 8-3/4°

## GENERAL SUSPENSION PROVISIONS

Car leveling . . . . . Front stabilizer bar  
 Anti-dive control . . . . . Angle of front upper control arm  
 Anti-squat control . . . . . Rear suspension geometry

## FRAME AND FRONT SUSPENSION

### FRONT SPRINGS

Selected from a family of springs by Electronic Data Processing which identifies the correct springs for the weight of the vehicle including optional equipment ordered by the customer.

#### FRONT SPRING SPECIFICATIONS

| Part Number | Assy. Code | Cut-Off Length | Wire Dia. | Total Coils | Deflection Rate (lbs./inch) | Heights |                      |
|-------------|------------|----------------|-----------|-------------|-----------------------------|---------|----------------------|
|             |            |                |           |             |                             | Free    | Working (In. @ Lbs.) |
| 3952804     | AI         | 143.75         | .597      | 10.82       | 250                         | 17.73   | 11.7 @ 1500          |
| 3952805     | AJ         | 143.75         | .597      | 10.82       | 250                         | 18.01   | 11.7 @ 1570          |
| 3952806     | AO         | 153.45         | .610      | 11.52       | 250                         | 18.29   | 11.7 @ 1640          |
| 3952812     | GO         | 149.85         | .621      | 11.22       | 275                         | 17.87   | 11.7 @ 1690          |
| 3952813     | GQ         | 149.85         | .621      | 11.22       | 275                         | 18.13   | 11.7 @ 1760          |
| 3983300     | AK         | 170.88         | .645      | 12.62       | 275                         | 18.38   | 11.7 @ 1830          |



# STEERING, DRIVELINE, WHEELS AND TIRES

## MANUAL STEERING, REGULAR PRODUCTION

|   |   |
|---|---|
| Description                                 | Semi-reversible, recirculating ball nut gear; and a collapsible steering column for safety. Tilt steering wheel optional. |
| Ratios                                      | Gear, 24:1; overall, 27.9:1   |
| Turning diameters (ft)                      |   |
| Outside front, wall to wall                 | 45.5  |
| Outside front, curb to curb                 | 42  |
| Inside rear, wall to wall                   |   |
| Inside rear, curb to curb                   |   |
| Number of wheel turns, lock to lock         | 5.2   |
| Outside wheel angle with inside wheel @ 20° | 18.6°   |
| Linkage                                     | Parallelogram, front of wheels, 2 tie rods  |
| Stg. Whl. Dia.                              | 15.25 x 14.75   |

## POWER STEERING, RPO N40

|  |   |
|--|---|
| (Same as standard Manual Steering except as shown) |   |
| Type   | Integral gear, with vane-type pump driven by crankshaft pulley providing hydraulic pressure |
| Ratio  | Gear, 16.0:1/13.0; overall, 18.5/12.4:1   |
| Number of wheel turns, lock to lock                | 2.9   |

## DRIVELINE

|                          |                        |
|--------------------------|------------------------|
| Type                     | Tubular, exposed       |
| Number used              | One                    |
| Diameter (O.D.)          | 3.25                   |
| Length (C/L of U-Joints) |                        |
| for manual transmissions | 56.34                  |
| Wall thickness           | .065                   |
| Universal joints         |                        |
| Type                     | Cross                  |
| Number used              | Two                    |
| Bearings                 | Prepack, anti-friction |
| Drive and torque         | Through rear           |

## WHEELS, REGULAR PRODUCTION (DISC BRAKES)

|                         |   |
|-------------------------|---|
| Type                    | Short spoke spider  |
| Attachment to hub       | 5 Hex nuts, 7/16-20 UNF 2-B, on a 4.75 diameter bolt circle |
| Size (except SS Models) | 15 x 6  |
| Offset                  | 0.85  |
| SS Models               |   |
| Size                    | 15 x 7  |
| Offset                  | 0.30  |

## WHEELS, RALLY-TYPE, RPO ZJ7

|  |   |
|--|---|
| (Same as regular production except as follows) |   |
| Type   | Short spoke spider with large ventilation slots |
| Size   | 15 x 7  |
| Offset   | 0.30  |

## TIRES, REGULAR PRODUCTION

|   |                        |
|---|------------------------|
| Construction                                  | Fiberglass bias belted |
| Load Range                                    | B (4 ply rating)       |
| Sizes   |                        |
| G78 x 15 (Except models with 454 CID engines) |                        |
| Static loaded radius                          | 12.90                  |
| Loaded rev/mi @ 45 mph                        | 749                    |
| Capacity @ 24 psi                             | 1380                   |
| G70 x 15 (SS Models)                          |                        |
| Static loaded radius                          | 12.72                  |
| Loaded rev/mi @ 45 mph                        | 758                    |
| Capacity @ 24 psi                             | 1380                   |

## REAR AXLE AND SUSPENSION

### REAR AXLE

Description . . . . . Semi-floating housing consists of two welded tubes pressed into crossbore of cast iron carrier. Carrier contains an overhung pinion and hypoid gear supported by two taper roller bearings.

Pinion offset . . . . . (Vert) 1.50

#### Hypoid gear PD

2.73, 3.08, 3.36 . . . . . 8.125

2.73, 3.31 . . . . . 8.875

Pinion bearing adjustment . . . . . Shim

#### Lubricant

Type . . . . . Military Spec. MIL-L-2105-B

Viscosity . . . . . SAE80

Capacity (pts) . . . . . 8.125 hypoid gear -- 3.75

8.875 hypoid gear -- 4.25

### AXLE SHAFT

Type . . . . . Forged and hardened steel with integral drive flange

Wheel bearings . . . . . Single row cylindrical roller, one per wheel

Oil seal . . . . . Steel encased spring loaded synthetic rubber

### RING AND PINION GEAR TOOTH COMBINATIONS

#### 8.125 Ring Gear Diameter

2.73 . . . . . 41.15

● 3.08 . . . . . 40.13

3.36 . . . . . 37.11

#### 8.875 Ring Gear Diameter

2.73 . . . . . 41.15

3.31 . . . . . 43.13

### POSITRACTION DIFFERENTIAL (See Power Trains)

Type . . . . . Two pinion with single disk clutch

### REAR SUSPENSION

Description . . . . . Link type; 2 upper and 2 lower control arms supporting rear axle. Drive and torque taken through control arms.

#### Wheel travel (design)

Total . . . . . 8.80

Jounce . . . . . 3.59

Rebound . . . . . 5.21

Wheel to spring, travel ratio . . . . . 1.06

### SHOCK ABSORBERS

Type . . . . . Direct, double-acting, hydraulic

Piston diameter . . . . . 1.00

### REAR SPRINGS

Selected from a family of springs by Electronic Data Processing which identifies the correct springs for the weight of the vehicle including optional equipment ordered by the customer.

### REAR SPRING SPECIFICATIONS

| Part Number | Assembly Code | Cut-Off Length | Wire Dia. | Total Coils | Deflection Rate (lbs per inch) | HEIGHTS |                      |
|-------------|---------------|----------------|-----------|-------------|--------------------------------|---------|----------------------|
|             |               |                |           |             |                                | Free    | Working (In. @ lbs.) |
| 395 2827    | BL            | 92.6           | .539      | 5.65        | 130                            | 12.77   | 9.00 @ 490           |
| 395 2828    | BM            | 92.6           | .539      | 5.65        | 130                            | 13.08   | 9.00 @ 530           |
| 395 2829    | BP            | 92.7           | .539      | 5.65        | 130                            | 13.46   | 9.00 @ 580           |

# BRAKES

## FRONT WHEEL POWER DISC BRAKES, REGULAR PRODUCTION

Drum brakes at rear wheels

Type . . . . . Hub mounted front discs, with self-adjusting single piston caliper units mounted on the steering knuckle, a metering valve is provided for balance between front and rear brakes. Reverse self-adjusting feature.

### Braking ratios

Pedal . . . . . 3.53  
 Hydraulic . . . . . 28.31  
 Overall . . . . . 99.93

Total effective lining area, disc and drum . . . . 106.1

Gross lining area, disc and drum . . . . . 118.1

### Disc

Diameter . . . . . 11.0  
 Material . . . . . Cast iron  
 Swept area per disc . . . . . 106.1  
 Swept disc and drum area . . . . . 332.4

### Drum

Diameter . . . . . 9.5  
 Construction . . . . . Composite, web cast into rim.  
 Material  
     Web . . . . . HR Steel  
     Rim . . . . . Cast iron alloy

### Disc Lining

Material . . . . . Wet compression molded asbestos composition.  
 Size . . . . . 5.96 x 2.21 x .41  
 Method of attachment . . . . . Riveted  
 Total effective area per lining . . . . . 9.5  
 Gross lining area per lining . . . . . 10.6

### Drum Lining

Material . . . . . Compression molded asbestos composition wet rolled; grooved primary linings.

### Length

Primary . . . . . 9.01  
 Secondary . . . . . 9.75  
 Width . . . . . 2.00  
 Thickness, minimum @ C/L . . . . . .17

### Master Cylinder

Piston diameter . . . . . 1.125  
 Piston travel (with available pedal travel) . . . . 1.44

### Wheel Cylinders

#### Front Calipers

Number per wheel . . . . . 1  
 Diameter . . . . . 2.9375

#### Rear Drums

Diameter . . . . . .875  
 Foot pedal travel . . . . . 5.08  
 Line pressure at 100 lb. pedal load . . . . . 1025

## PARKING BRAKE

Type . . . . . Mechanical: Pull rods and cables operate two rear service brakes; parking brake "ON" warning lamp provided.

Total effective area . . . . . 68.2

Control . . . . . Pendulum foot pedal; released by T handle located below instrument panel to left of steering column.

# BULBS AND LAMPS

| BULBS AND LAMPS                         | NUMBER REQUIRED AND TRADE NUMBER | CANDLE POWER PER LAMP         |
|---|----------------------------------|-------------------------------|
| Automatic transmission position pattern | Instrument Panel 1-194           | 2                             |
|   | Floor console 2-1445             | 1                             |
| Back-up                                 | 2-1156                           | 32                            |
| Brake warning - Alarm                   | 1-194                            | 2                             |
| Courtesy                                |                                  |                               |
| Instrument panel                        | 2-631                            | 6                             |
| Seat separator                          | 1-212                            | 6                             |
| Directional signal indicators           | 2-194                            | 2                             |
| Dome                                    | 1-211                            | 12                            |
| Generator indicator                     | 1-194                            | 2                             |
| Glove compartment                       | 1-1893                           | 2                             |
| Headlamp                                | 2-6014                           | High beam 60W<br>Low beam 50W |
| Headlamp hi-beam indicator              | 1-194                            | 2                             |
| Heater controls                         | 1-1445                           | 1                             |
| Instrument cluster                      | 9-194                            | 2                             |
| License plate, rear                     | 1-67                             | 4                             |
| Luggage compartment                     | 1-1003                           | 15                            |
| Oil pressure indicator                  | 1-194                            | 2                             |
| Parking                                 |                                  |                               |
| Park                                    | 2-1157                           | 3                             |
| Turn                                    |                                  | 32                            |
| Radio                                   | 1-1816                           | 3                             |
| Side marker - Front                     | 2-194                            | 2                             |
| Side marker - Rear                      | 2-194                            | 2                             |
| Tail                                    |                                  |                               |
| Tail                                    | 4-1157                           | 3                             |
| Stop and turn                           |                                  | 32                            |
| Temperature indicator                   | 1-194                            | 2                             |
| Underhood                               | 1-93                             | 15                            |

# FUSES AND CIRCUIT BREAKERS

| CIRCUIT                             | TYPE OF PROTECTION | LOCATION AND CIRCUIT* |
|-------------------------------------|--------------------|-----------------------|
| Air conditioning                    | AGC 30 fuse        | In line               |
|                                     | AGC 25 fuse        | Fuse panel (g)        |
| Auto. trans. position pattern lamp  | AGC 4 fuse         | Fuse panel (c)        |
| Back-up lamps                       | AGC 20 fuse        | Fuse panel (d)        |
| Cigarette lighter                   | AGC 25 fuse        | Fuse panel (b)        |
| Clock                               | AGC 25 fuse        | Fuse panel (b)        |
| Clock lamp (with tachometer option) | AGC 4 fuse         | Fuse panel (c)        |
| Courtesy lamps                      | AGC 25 fuse        | Fuse panel (b)        |
| Defogging unit                      | AGC 10 fuse        | Fuse panel (d)        |
| Direction signal indicator lamps    | AGC 20 fuse        | Fuse panel (c)        |
| Dome lamp                           | AGC 25 fuse        | Fuse panel (b)        |
| Fuel gage                           | AGC 10 fuse        | Fuse panel (d)        |
| Generator indicator lamp            | AGC 10 fuse        | Fuse panel (d)        |
| Glove compartment lamp              | ASC 20 fuse        | Fuse panel (b)        |
| Headlamps                           | CB                 | Light switch          |
| Headlamps hi-beam indicator lamp    | CB                 | Light switch          |
| Heater                              | AGC 25 fuse        | Fuse panel (g)        |
| Heater controls lamp                | AGC 4 fuse         | Fuse panel (c)        |
| Instrument cluster lamps            | AGC 4 fuse         | Fuse panel (c)        |
| License plate lamp, rear            | AGC 20 fuse        | Fuse panel (b)        |
| Luggage compartment lamp            | AGC 20 fuse        | Fuse panel (b)        |
| Oil pressure indicator lamp         | AGC 10 fuse        | Fuse panel (d)        |
| Brake indicator lamp                | AGC 10 fuse        | Fuse panel (d)        |
| Parking lamps                       | 20 amp fuse        | Fuse panel            |
| Power seats                         | 30 amp CB          | Firewall              |
| Power windows                       | 30 amp CB          | Firewall              |
| Radio and radio lamp                | AGC 10 fuse        | Fuse panel (e)        |
| Side Marker lamp - Front            | AGC 20 fuse        | Fuse panel            |
| Side Marker lamp - Rear             | AGC 20 fuse        | Fuse panel            |
| Spot lamp — Portable                | AGC 15 fuse        | In line               |
| Tachometer                          | AGC 10 fuse        | Fuse panel (d)        |
| Tail, stop and turn lamps           | AGC 20 fuse        | Fuse panel (b)        |
| Temperature indicator lamp          | AGC 10 fuse        | Fuse panel (d)        |
| Traffic hazard indicator            | AGC 20 fuse        | Fuse panel (b)        |
| Underhood lamp                      | SAE 15 fuse        | In line               |
| Windshield wiper, two-speed         | SAE 25 fuse        | Fuse panel (f)        |

\* Letter suffix indicates same circuit

# POWER TRAINS

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# POWER TEAM COMBINATIONS

| ENGINE  | TRANSMISSION              | MODEL APPLICATION | AXLE RATIOS* |        |         |
|---|---------------------------|-------------------|--------------|--------|---------|
|   |                           |                   | STD.         | A/C    | YDI (a) |
| Turbo-Fire 350<br>350 Cubic Inch V-8<br>245 HP Standard | 3-Speed (2.54:1 low)      | Sport Coupe       | 3.08:1       | 3.08:1 | NA      |
|   | Powerglide                |                   |              |        |         |
|   | Turbo Hydra-Matic         |                   |              |        |         |
| Turbo-Fire 350<br>350 Cubic Inch V-8<br>270 HP RPO L48  | 4-Speed (2.52:1 low)      | Sport Coupe       | 3.31:1       | 3.31:1 | NA      |
|   | Turbo Hydra-Matic         |                   |              |        |         |
| Turbo-Jet 400<br>402 Cubic Inch V-8<br>300 HP RPO LS3   | 4-Speed (2.52:1 low)      | Sport Coupe       | 3.31:1       | 3.31:1 | NA      |
|   | Turbo Hydra-Matic         |                   |              |        |         |
| Turbo-Jet 454<br>454 Cubic Inch V-8<br>365 HP RPO LS5   | Turbo Hydra-Matic         | Sport Coupe       | 3.31:1       | 3.31:1 | NA      |
| Turbo-Jet 454<br>454 Cubic Inch V-8<br>425 HP RPO LS6   | H.D. 4-Speed (2.20:1 low) | Sport Coupe       | 3.31:1       | 3.31:1 | NA      |
|   | Turbo Hydra-Matic         |                   |              |        |         |

(a) ZQ9 - Performance option

\* - Positraction axles available optionally for all ratios

## MULTIPLICATION FACTORS

### WITH MANUAL TRANSMISSIONS

| ENGINE                             | CARBURETION | TRANSMISSION | TOTAL GEAR REDUCTION* |      |      |      |      | AXLE RATIO |
|------------------------------------|-------------|--------------|-----------------------|------|------|------|------|------------|
|                                    |             |              | 1st                   | 2nd  | 3rd  | 4th  | Rev  |            |
| 350 Cu. In. V-8<br>245 HP Standard | 2-Barrel    | 3-Speed      | 7.82                  | 4.62 | 3.08 |      | 8.10 | 3.08       |
| 350 Cu. In. V-8<br>270 HP RPO L48  | 4-Barrel    | 4-Speed      | 8.34                  | 6.22 | 4.83 | 3.31 | 8.57 | 3.31       |
| 402 Cu. In. V-8<br>300 HP RPO LS3  | 4-Barrel    | 4-Speed      | 8.34                  | 6.22 | 4.83 | 3.31 | 8.57 | 3.31       |
| 454 Cu. In. V-8<br>425 HP RPO LS6  | 4-Barrel    | 4-Speed      | 7.28                  | 5.42 | 4.20 | 3.31 | 7.48 | 3.31       |

### WITH AUTOMATIC TRANSMISSIONS

| ENGINE   | TRANSMISSION         | SELECTOR POSITION | TOTAL TORQUE MULTIPLICATION* | AXLE RATIO |
|--|----------------------|-------------------|------------------------------|------------|
| 350 Cu. In. V-8<br>245 HP Standard                         | Powerglide           | Drive             | 11.40:1 - 3.08:1             | 3.08:1     |
|  |                      | Low & Reverse     | 11.40:1 - 5.42:1             |            |
|  | Turbo<br>Hydra-Matic | Drive             | 14.44:1 - 2.73:1             | 2.73:1     |
|  |                      | Low               | 14.44:1 - 6.88:1             |            |
|  |                      | Second            | 14.44:1 - 4.15:1             |            |
| Reverse  |                      | 11.06:1 - 5.27:1  |                              |            |
| 350 Cu. In. V-8<br>270 HP RPO L48                          | Turbo<br>Hydra-Matic | Drive             | 14.44:1 - 2.73:1             | 2.73:1     |
|  |                      | Low               | 14.44:1 - 6.88:1             |            |
|  |                      | Second            | 14.44:1 - 4.15:1             |            |
|  |                      | Reverse           | 11.06:1 - 5.27:1             |            |
| 402 Cu. In. V-8<br>300 HP RPO LS3                          | Turbo<br>Hydra-Matic | Drive             | 14.22:1 - 2.73:1             | 2.73:1     |
|  |                      | Low               | 14.22:1 - 6.78:1             |            |
|  |                      | Second            | 14.22:1 - 4.04:1             |            |
|  |                      | Reverse           | 11.93:1 - 5.56:1             |            |
| 454 Cu. In. V-8<br>365 HP RPO LS5<br>and<br>465 HP RPO LS6 | Turbo<br>Hydra-Matic | Drive             | 17.25:1 - 3.31:1             | 3.31:1     |
|  |                      | Low               | 17.25:1 - 8.21:1             |            |
|  |                      | Second            | 17.25:1 - 4.90:1             |            |
|  |                      | Reverse           | 14.46:1 - 6.88:1             |            |

\*Axle ratio x transmission ratio.



# ENGINE DATA AND RATINGS

## GENERAL DATA

| Engine Type                                     | V-8 OHV                                 |     |   |        |       |
|---|---|-----|---|--------|-------|
| Piston Displacement (Cu.In.)                    | 350                                     |     | 402   | 454    |       |
| Availability                                    | Standard                                | L48 | LS4   | LS5    | LS6   |
| Number of Cylinders                             | Eight                                   |     |   |        |       |
| Bore (nominal)                                  | 4.00                                    |     | 4.126                                       | 4.251  |       |
| Stroke (nominal)                                | 3.48                                    |     | 3.76  | 4.00   |       |
| Compression Ratio                               | 8.5:1                                   |     |   | 9.00:1 |       |
| Taxable (SAE) Horsepower                        | 51.2                                    |     | 54.5  | 57.8   |       |
| Firing Order                                    | 1-8-4-3-6-5-7-2                         |     |   |        |       |
| Idling Speed                                    | 3-Speed & 4-Speed (in neutral)          |     | 600   |        | 700   |
|   | Powerglide (in drive)                   |     | 550   |        |       |
|   | Turbo Hydra-matic (in drive)            |     | 600   |        |       |
| Comp. Press. (PSI) @ Cranking Speed, Engine Hot | 150                                     |     | 160   |        |       |
| Power Plant Mountings                           | Front                                   |     | Two, combination compression and shear type |        |       |
|   | Rear                                    |     | One, shear type                             |        |       |
| Measurements                                    | Fan to rear of engine block             |     | 30.69                                       | 30.16  | 33.97 |
|   | Top of air cleaner to bottom of oil pan |     | 29.29                                       | 26.79  | 27.62 |
|   | Width - including air cleaner           |     | 27.34                                       | 27.97  | 30.00 |

## ADVERTISED ENGINE RATING

| Engine Designation         | Turbo-Fire<br>350 V-8<br>245 HP | Turbo-Fire<br>350 V-8<br>270 HP | Turbo-Jet<br>400 V-8<br>300 HP | Turbo-Jet<br>454 V-8<br>365 HP | Turbo-Jet<br>454 V-8<br>425 HP |
|----------------------------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Availability               | Standard                        | RPO L48                         | RPO LS3                        | RPO LS5                        | RPO LS6                        |
| Carburetor                 | Two Barrel                      | Four Barrel                     | Four Barrel                    | Four Barrel                    | Four Barrel                    |
| Gross Brake HP @ RPM       | 245 @ 4800                      | 270 @ 4800                      | 300 @ 4800                     | 365 @ 4800                     | 425 @ 5600                     |
| Gross Torque @ RPM (lb-ft) | 350 @ 2800                      | 360 @ 3200                      | 400 @ 3200                     | 465 @ 3200                     | 475 @ 4000                     |
| Net Brake HP @ RPM         | 165 @ 4000                      | 175 @ 4000                      | 260 @ 4400                     | 285 @ 4000                     | 325 @ 5600                     |
| Net Torque @ RPM (lb-ft)   | 280 @ 2400                      | 290 @ 2400                      | 345 @ 3200                     | 390 @ 3200                     | 390 @ 3600                     |

# ENGINE SPEED AND PISTON TRAVEL

## TURBO-FIRE 350 V-8 ENGINE

|                                 |           |            |                   |
|---------------------------------|-----------|------------|-------------------|
| Transmission                    | 3-Speed   | Powerglide | Turbo Hydra-Matic |
| Rear Axle Ratio                 | 3.08:1    |            | 2.73:1            |
| Tire Size                       | G78 x 15B |            |                   |
| Crankshaft Revolutions per Mile | 2313.1    |            | 2050.2            |
| Crankshaft RPM @ 1 MPH          | Low       | 97.9       | 67.9              |
|                                 | Second    | 57.8       | 38.6 (direct)     |
|                                 | Third     | 38.6       | 67.9              |
|                                 | Reverse   | 101.4      | 86.1              |
| Piston Travel (ft/mile)         | 1341.6    |            | 1189.1            |

## TURBO-FIRE 350 V-8 ENGINE (RPO L48)

|                                 |           |                   |
|---------------------------------|-----------|-------------------|
| Transmission                    | 4-Speed   | Turbo Hydra-Matic |
| Rear Axle Ratio                 | 3.31:1    | 2.73:1            |
| Tire Size                       | G78 x 15B |                   |
| Crankshaft Revolutions per Mile | 2485.8    | 2050.2            |
| Crankshaft RPM @ 1 MPH          | Low       | 104.4             |
|                                 | Second    | 77.9              |
|                                 | Third     | 60.5              |
|                                 | Fourth    | 41.4              |
|                                 | Reverse   | 107.3             |
| Piston Travel (ft/mile)         | 1441.7    | 1189.1            |

## TURBO-JET 400 V-8 (402 CU.IN.) ENGINE (RPO LS3)

|                                 |           |                   |
|---------------------------------|-----------|-------------------|
| Transmission                    | 4-Speed   | Turbo Hydra-Matic |
| Rear Axle Ratio                 | 3.31:1    | 2.73:1            |
| Tire Size                       | G78 x 15B |                   |
| Crankshaft Revolutions per Mile | 2485.8    | 2050.2            |
| Crankshaft RPM @ 1 MPH          | Low       | 104.4             |
|                                 | Second    | 77.9              |
|                                 | Third     | 60.5              |
|                                 | Fourth    | 41.4              |
|                                 | Reverse   | 107.3             |
| Piston Travel (ft/mile)         | 1284.9    |                   |

## TURBO-JET 454 V-8 ENGINE (RPO LS5)

|                                 |                   |               |
|---------------------------------|-------------------|---------------|
| Transmission                    | Turbo Hydra-Matic |               |
| Rear Axle Ratio                 | 3.31:1            |               |
| Tire Size                       | G70 x 15B         |               |
| Crankshaft Revolutions per Mile | 2465.9            |               |
| Crankshaft RPM @ 1 MPH          | Low               | 101.9         |
|                                 | Second            | 60.8          |
|                                 | Third             | 41.1 (direct) |
|                                 | Reverse           | 85.5          |
| Piston Travel (ft/mile)         | 1643.9            |               |

## TURBO-JET 454 V-8 ENGINE (RPO LS6)

|                                 |           |                   |
|---------------------------------|-----------|-------------------|
| Transmission                    | 4-Speed   | Turbo Hydra-Matic |
| Rear Axle Ratio                 | 3.31:1    |                   |
| Tire Size                       | G70 x 15B |                   |
| Crankshaft Revolutions per Mile | 2465.9    |                   |
| Crankshaft RPM @ 1 MPH          | Low       | 90.4              |
|                                 | Second    | 67.4              |
|                                 | Third     | 52.2              |
|                                 | Fourth    | 41.1              |
|                                 | Reverse   | 95.5              |
| Piston Travel (ft/mile)         | 1643.9    |                   |

# VEHICLE PERFORMANCE FACTORS

| ENGINE | BASE<br>350 CU.IN.<br>245 HP | RPO L48<br>350 CU.IN.<br>270 HP | RPO LS3<br>402 CU.IN.<br>300 HP | RPO LSS<br>454 CU.IN.<br>365 HP | RPO LS6<br>454 CU.IN.<br>425 HP |
|--------|------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| MODEL  | 13857                        | 13857                           | 13857                           | 13857                           | 13857                           |

## 3-SPEED TRANSMISSION

|                                       |        |  |  |  |  |
|---------------------------------------|--------|--|--|--|--|
| Performance Weight (pounds)           | 4186   |  |  |  |  |
| Pounds per Gross Horsepower           | 17.09  |  |  |  |  |
| Pounds per Cu.In. Displacement        | 11.96  |  |  |  |  |
| Gross HP per Cu.In. Displacement      | .700   |  |  |  |  |
| Power Displacement (cu.ft./mile)      | 234.25 |  |  |  |  |
| Displacement Factor (cu.ft./ton mile) | 112.08 |  |  |  |  |

## 4-SPEED TRANSMISSION

|                                       |  |        |        |  |        |
|---------------------------------------|--|--------|--------|--|--------|
| Performance Weight (pounds)           |  | 4218   | 4403   |  | 4428   |
| Pounds per Gross Horsepower           |  | 15.62  | 14.68  |  | 10.42  |
| Pounds per Cu.In. Displacement        |  | 12.05  | 10.95  |  | 9.75   |
| Gross HP per Cu.In. Displacement      |  | .771   | .746   |  | .936   |
| Power Displacement (cu.ft./mile)      |  | 251.74 | 289.15 |  | 323.93 |
| Displacement Factor (cu.ft./ton mile) |  | 119.30 | 131.43 |  | 145.91 |

## TURBO HYDRA-MATIC

|                                       |        |        |        |        |        |
|---------------------------------------|--------|--------|--------|--------|--------|
| Performance Weight (pounds)           | 4215   | 4215   | 4445   | 4484   | 4477   |
| Pounds per Gross Horsepower           | 17.20  | 15.61  | 14.82  | 12.28  | 10.53  |
| Pounds per Cu.In. Displacement        | 12.04  | 12.04  | 11.06  | 9.88   | 9.86   |
| Gross HP per Cu.In. Displacement      | .700   | .771   | .746   | .804   | .936   |
| Power Displacement (cu.ft./mile)      | 207.63 | 207.63 | 238.48 | 323.93 | 323.93 |
| Displacement Factor (cu.ft./ton mile) | 98.40  | 98.87  | 107.42 | 144.61 | 144.61 |

## POWERGLIDE

|                                       |        |  |  |  |  |
|---------------------------------------|--------|--|--|--|--|
| Performance Weight (pounds)           | 4188   |  |  |  |  |
| Pounds per Gross Horsepower           | 17.09  |  |  |  |  |
| Pounds per Cu.In. Displacement        | 11.97  |  |  |  |  |
| Gross HP per Cu.In. Displacement      | .700   |  |  |  |  |
| Power Displacement (cu.ft./mile)      | 234.25 |  |  |  |  |
| Displacement Factor (cu.ft./ton mile) | 112.08 |  |  |  |  |

## GLOSSARY

|                     |   |
|---------------------|---|
| Performance Weight  | Curb Weight plus 600 Lb<br>(weight of four 150 lb passengers)                       |
| Power Displacement  | $\frac{\text{Crankshaft Revs/Mi} \times \text{Piston Displacement}}{2 \times 1728}$ |
| Displacement Factor | $\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$                    |

# PRINCIPAL COMPONENTS

## CYLINDER BLOCK

|  |                                  |
|--|----------------------------------|
| Material                                       | Cast alloy iron                  |
| Bore diameter                                  |                                  |
| V8-350 Cu.In.                                  | 3.9995-4.0025                    |
| V8-402 Cu.In.                                  | 4.1246-4.1274                    |
| V8-454 Cu.In.                                  | 4.2496-4.2524                    |
| No. of Bulkheads                               |                                  |
| L6   | 7                                |
| V8   | 5                                |
| Water Jacket                                   | Full length around each cylinder |
| Bearing Caps (Number, material and attachment) |                                  |
| V8-350 & 402 Cu.In.                            | 5, cast iron; 2-bolt             |
| V8-454 Cu.In. (LS5)                            | 5, cast iron; 2-bolt             |
| V8-454 Cu.In. (LS6)                            | 5, cast iron; 4-bolt             |
| Bore Spacing (Centerline to Centerline)        |                                  |
| V8-350 Cu.In.                                  | 4.4                              |
| V8-402 & 454 Cu.In.                            | 4.84                             |

## CYLINDER HEAD

|                 |                               |
|-----------------|-------------------------------|
| Material        | High chrome cast alloy iron   |
| Bolt No. & Size |                               |
| V8-350 Cu.In.   | 34; .4375 dia. 14 threads/in. |
| V8-402 Cu.In.   | 32; .4375 dia. 14 threads/in. |
| V8-454 Cu.In.   | 32; .4375 dia. 14 threads/in. |

## COMBUSTION CHAMBER VOLUME

|  |             |
|--|-------------|
| (Total chamber volume of assembled engine with piston at top center) |             |
| V8-350 Cu.In.  | 6.08 Cu.In. |
| V8-402 Cu.In.  | 6.91 Cu.In. |
| V8-454 Cu.In. (RPO LS5)  | 7.79 Cu.In. |
| V8-454 Cu.In. (RPO LS6)  | 7.27 Cu.In. |

## INLET MANIFOLD

|          |                             |
|----------|-----------------------------|
| Material | Cast alloy iron             |
| Type     |                             |
| L6       | 3 port, rectangular section |
| V8       | 8 port, double deck         |

## EXHAUST MANIFOLD

|                           |                               |
|---------------------------|-------------------------------|
| Material                  | Cast alloy iron               |
| Type                      |                               |
| V8-350 Cu.In.             | Dual, 4 port, center takedown |
| V8-402 & 454 Cu.In.       | Dual, 4 port, rear takedown   |
| Outlet Diameter (Nominal) |                               |
| V8-350 Cu.In.             | 2.0                           |
| V8-402 & 454 Cu.In.       | 2.5                           |

## CRANKSHAFT

|                       |                         |
|-----------------------|-------------------------|
| Material              |                         |
| V8-350 & 402 Cu.In.   | Cast nodular iron       |
| V8-454 Cu.In.         | Forged steel            |
| End Play              |                         |
| V8-350 Cu.In.         | .002-.006               |
| V8-402 & 454 Cu.In.   | .006-.010               |
| Counter Weights       |                         |
| V8                    | 6                       |
| Crank Arm Length      |                         |
| V8-350 Cu.In.         | 1.74                    |
| V8-402 Cu.In.         | 1.88                    |
| V8-454 Cu.In.         | 2.00                    |
| Torsional Damper      | Rubber mounted inertia  |
| Timing Gear           |                         |
| V8                    | Steel; sprocket & chain |
| Pulley Pitch Diameter | 6.64                    |

## MAIN BEARINGS

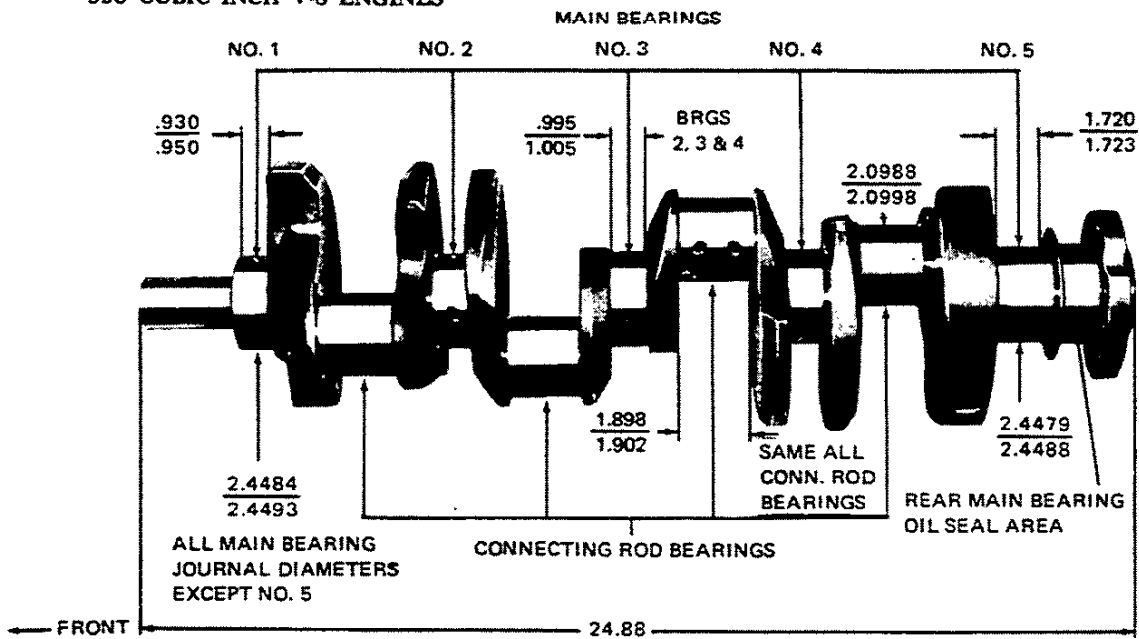
|                        |   |
|------------------------|---|
| Material               | Steel, backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application) |
| Type                   | Precision removable   |
| Thrust Against Bearing | No. 5   |
| Clearance              |   |
| V8-350 Cu.In.          |   |
| No. 1                  | .0008-.0020   |
| No. 2, 3 & 4           | .0011-.0023   |
| No. 5                  | .0017-.0033   |
| V8-402 & 454 Cu.In.    |   |
| No. 1                  | .0007-.0019   |
| No. 2, 3 & 4           | .0013-.0025   |
| No. 5                  | .0019-.0035   |

| Dimensions      | Theoretical | Effective | Projected |
|-----------------|-------------|-----------|-----------|
|                 | Inner Dia.  | Length    | Area      |
| V8-350 Cu.In.   |             |           |           |
| Bearing No. 1-4 | 2.4502      | .752      | 1.8425    |
| Bearing No. 5   | 2.4508      | 1.177     | 2.8846    |
| V8-402 Cu.In.   |             |           |           |
| Bearing No. 1   | 2.7509      | .992      | 2.7287    |
| Bearing No. 2-4 | 2.7505      | .992      | 2.7285    |
| Bearing No. 5   | 2.7505      | 1.2525    | 3.4450    |
| V8-454 Cu.In.   |             |           |           |
| Bearing No. 1   | 2.7509      | .992      | 2.7289    |
| Bearing No. 2-4 | 2.7505      | .992      | 2.7285    |
| Bearing No. 5   | 2.7505      | 1.2525    | 3.4450    |

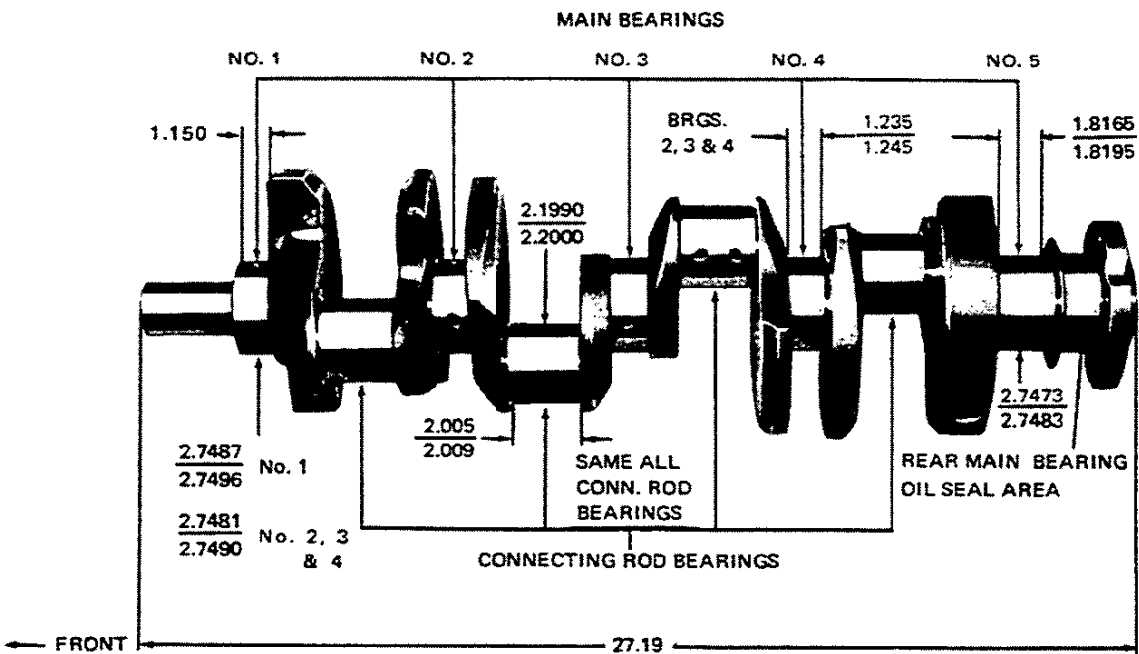
# PRINCIPAL COMPONENTS

## CRANKSHAFTS AND BEARINGS

### 350 CUBIC INCH V-8 ENGINES



### 402 CUBIC INCH V-8 ENGINE



# PRINCIPAL COMPONENTS

## CAMSHAFT

|                     |                            |
|---------------------|----------------------------|
| Material            | Cast alloy iron            |
| Drive               | Sprocket & chain; steel    |
| Lobe Lift           |                            |
| V8-350 Cu.In.       | .2600 Inlet; .2733 Exhaust |
| V8-402 Cu.In.       | .2343 Inlet; .2529 Exhaust |
| V8-454 Cu.In. (LS5) | .2714 Inlet; .2824 Exhaust |
| V8-454 Cu.In. (LS6) | .3057 Inlet & Exhaust      |
| Bearings            | Steel backed babbit        |

## VALVE TRAIN

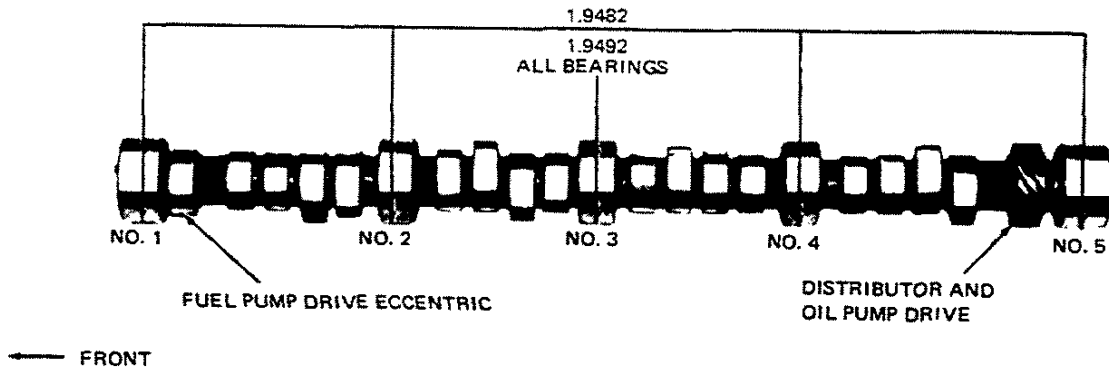
|                     |   |
|---------------------|---|
| Type                | Individually mounted, overhead rocker arms, push rod actuated |
| Lifters             | Hydraulic (LS6)—Mechanical                                    |
| Push Rods           |   |
| Type                | Hollow steel  |
| Ends                |   |
| V8-350 Cu.In.       | Hardened  |
| V8-402 & 454 Cu.In. | Hardened steel inserts  |
| Rocker Arms         |   |
| Material            | Stamped steel   |
| Ratio               |   |
| V8-350 Cu.In.       | 1.50:1  |
| V8-402 & 454 Cu.In. | 1.70:1  |

## VALVE SPRINGS

|                              |                     |
|------------------------------|---------------------|
| Diameter (I.D.)              |                     |
| V8-350 Cu.In.                | .868-.884           |
| V8-402 (LS3) Cu.In.          | 1.080-1.094         |
| V8-454 Cu.In.                | 1.080-1.094         |
| Installed Length (lb. @ In.) |                     |
| Valves Closed                |                     |
| V8-350 Cu.In.                | 76-84 @ 1.70        |
| V8-402 & 454 Cu.In.          |                     |
| —Outer spring                | 69-81 @ 1.88        |
| —Inner spring                | 26-34 @ 1.78        |
| Valves Opened                |                     |
| V8-350 Cu.In.                | 194-206 @ 1.25      |
| V8-402 & 454 Cu.In.          |                     |
| —Outer spring                | 228-252 @ 1.38      |
| —Inner spring                | 81-99 @ 1.28        |
| Free Length                  |                     |
| V8-350 Cu.In.                | 2.03                |
| V8-402 & 454 Cu.In.          |                     |
| —Outer spring                | 2.12                |
| —Inner spring                | 2.06                |
| Valve Spring Damper          |                     |
| V8-350 Cu.In.                | Flat steel, 4 coils |

## CAMSHAFT AND BEARINGS

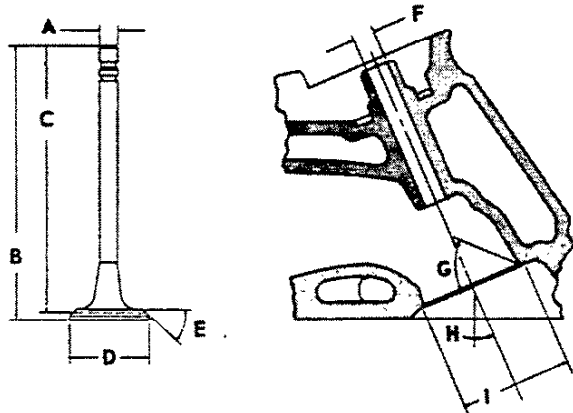
V8-402 and 454 V-8 ENGINES



# PRINCIPAL COMPONENTS

## VALVES - INLET

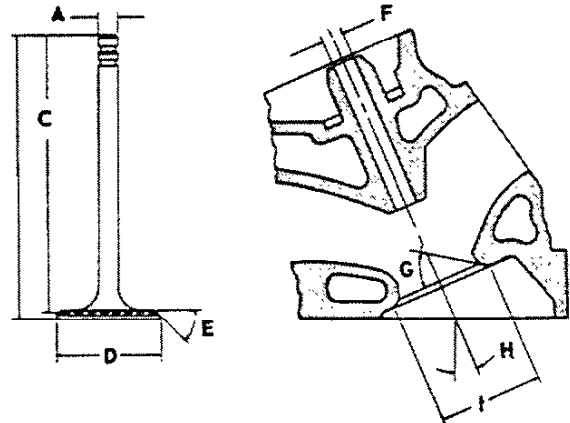
|                                  |                        |
|----------------------------------|------------------------|
| Material                         | Alloy steel            |
| Coating                          |                        |
| V8-350 Cu.In.                    | None                   |
| V8-402 & 454 Cu.In.              | Face & head aluminized |
| Valve Guide Inserts (454 Cu.In.) | Cast alloy iron        |



|                                  |             |
|----------------------------------|-------------|
| A - Stem Diameter                |             |
| V8-350 Cu.In.                    | .3410-.3417 |
| V8-402 & 454 Cu.In.              | .3715-.3722 |
| B - Overall Length               |             |
| V8-350 Cu.In.                    | 4.870-4.889 |
| V8-402 & 454 (LS5) Cu.In.        | 5.215-5.235 |
| V8-454 (LS6) Cu.In.              | 5.204-5.224 |
| C - Gage Length                  |             |
| V8-350 Cu.In.                    | 4.785-4.795 |
| V8-402 & 454 Cu.In.              | 5.115-5.125 |
| D - Overall Head Diameter        |             |
| V8-350 Cu.In.                    | 1.935-1.945 |
| V8-402 & 454 (LS5) Cu.In.        | 2.060-2.070 |
| V8-454 (LS6) Cu.In.              | 2.185-2.195 |
| E - Angle of Face                | 45°         |
| F - Guide Diameter               |             |
| V8-350 Cu.In.                    | .3427-.3437 |
| V8-402 & 454 Cu.In.              | .3732-.3742 |
| G - Angle of Seat                | 46°         |
| H - Valve Angle                  |             |
| V8-350 Cu.In.                    | 23°         |
| V8-402 & 454 Cu.In.              | 4°          |
| I - Valve Seat (Cutter) Diameter |             |
| V8-350 Cu.In.                    | 1.990-2.010 |
| V8-402 & 454 Cu.In.              | 2.150       |

## VALVES - EXHAUST

|                                  |                        |
|----------------------------------|------------------------|
| Material                         | High alloy steel       |
| Coating                          |                        |
| V8-350 Cu.In.                    | Aluminized face        |
| V8-402 & 454 Cu.In.              | Face & head aluminized |
| Valve Guide Inserts (454 Cu.In.) | Cast alloy iron        |



|                                  |             |
|----------------------------------|-------------|
| A - Stem Diameter                |             |
| V8-350 Cu.In.                    | .3410-.3417 |
| V8-402 & 454 Cu.In.              | .3415-.3720 |
| B - Overall Length               |             |
| V8-350 Cu.In.                    | 4.913-4.933 |
| V8-402 & 454 Cu.In.              | 5.345-5.365 |
| C - Gage Length                  |             |
| V8-350 Cu.In.                    | 4.781-4.791 |
| V8-402 & 454 Cu.In.              | 5.235-5.245 |
| D - Overall Head Diameter        |             |
| V8-350 Cu.In.                    | 1.495-1.505 |
| V8-402 & 454 (LS5) Cu.In.        | 1.715-1.725 |
| V8-454 (LS6) Cu.In.              | 1.875-1.885 |
| E - Angle of Face                | 45°         |
| F - Guide Diameter               |             |
| V8-350 Cu.In.                    | .3427-.3437 |
| V8-402 & 454 Cu.In.              | .3732-.3742 |
| G - Angle of seat                | 46°         |
| H - Valve Angle                  |             |
| V8-350 Cu.In.                    | 23°         |
| V8-402 & 454 Cu.In.              | 4°          |
| I - Valve Seat (Cutter) Diameter |             |
| V8-350 Cu.In.                    | 1.550-1.570 |
| V8-402 & 454 Cu.In.              | 1.625       |

## VALVE TIMING (Crankshaft degrees)

| V8-350 Cu.In.             | Excluding Ramps | Including Ramps |
|---------------------------|-----------------|-----------------|
| Inlet Valve (Zero lash)   |                 |                 |
| Opens - BTC               | 28°             | 38°             |
| Closes - ABC              | 72°             | 92°             |
| Duration                  | 280°            | 310°            |
| Exhaust Valve (Zero lash) |                 |                 |
| Opens - BBC               | 78°             | 88°             |
| Closes - ATC              | 30°             | 52°             |
| Duration                  | 288°            | 320°            |

| V8-402 Cu.In.             | Excluding Ramps | Including Ramps |
|---------------------------|-----------------|-----------------|
| Inlet Valve (Zero lash)   |                 |                 |
| Opens - BTC               | 28°             | 40°             |
| Closes - ABC              | 78°             | 102°            |
| Duration                  | 286°            | 322°            |
| Exhaust Valve (Zero lash) |                 |                 |
| Opens - BBC               | 75°             | 87°             |
| Close - ATC               | 31°             | 55°             |
| Duration                  | 286°            | 322°            |

| V8-454 Cu.In. (LS5)       | Excluding Ramps |
|---------------------------|-----------------|
| Inlet Valve (Zero lash)   |                 |
| Opens - BTC               | 56°             |
| Closes - ABC              | 114°            |
| Duration                  | 350°            |
| Exhaust Valve (Zero lash) |                 |
| Opens - BBC               | 110°            |
| Closes - ATC              | 62°             |
| Duration                  | 352°            |

| V8-454 Cu.In. (LS6)       | Excluding Ramps |
|---------------------------|-----------------|
| Inlet Valve (.024 lash)   |                 |
| Opens - BTC               | 44°             |
| Closes - ABC              | 92°             |
| Duration                  | 316°            |
| Exhaust Valve (.028 lash) |                 |
| Opens - BBC               | 86°             |
| Closes - ATC              | 36°             |
| Duration                  | 302°            |

## VALVE LIFT

|                     |                            |
|---------------------|----------------------------|
| V8-350 Cu.In.       | .3900 Inlet, .4100 Exhaust |
| V8-402 Cu.In.       | .3983 Inlet, .4300 Exhaust |
| V8-454 Cu.In. (LS5) | .4614 Inlet, .4800 Exhaust |
| V8-454 Cu.In. (LS6) | .5197 Inlet & Exhaust      |

## PISTONS

Material . . . . . Cast aluminum alloy  
 V8-454 (LS6) Aluminum impact extruded

### Head Type

V8-350 Cu.In. . . . . Sump head  
 V8-402 Cu.In. . . . . Domed head, valve cutout  
 V8-454 (LS5) Cu.In. . . . . Flathead, valve cutout  
 V8-454 (LS6) Cu.In. . . . . Domed head notched

Skirt Type . . . . . Slipper

### Top Land Clearance

V8-350 Cu.In. . . . . .0235-.0325  
 V8-402 Cu.In. . . . . .0310-.0370  
 V8-454 (LS5) Cu.In. . . . . .0350-.0410  
 V8-454 (LS6) Cu.In. . . . . .0320-.0380

### Skirt Clearance

V8-350 Cu.In. . . . . .0007-.0017  
 V8-402 Cu.In. . . . . .0018-.0028  
 V8-454 (LS5) Cu.In. . . . . .0024-.0034  
 V8-454 (LS6) Cu.In. . . . . .0040-.0050

### Compression Ring Groove Depth

V8-350 Cu.In. . . . . .2218-.2884  
 V8-402 Cu.In. . . . . .2328-.2393  
 V8-454 (LS5) Cu.In. . . . . .2348-.2412  
 V8-454 (LS6) Cu.In. . . . . .2375-.2435

### Oil Ring Groove Depth

V8-350 Cu.In. . . . . .2038-.2103  
 V8-402 Cu.In. . . . . .2183-.2248  
 V8-454 (LS5) Cu.In. . . . . .2183-.2247  
 V8-454 (LS6) Cu.In. . . . . .2160-.2170

### Pin Bore Offset

.055-.065

### Compression Height

V8-350 Cu.In. . . . . 1.558-1.562  
 V8-402 Cu.In. . . . . 1.877-1.881  
 V8-454 (LS5) Cu.In. . . . . 1.691-1.699  
 V8-454 (LS6) Cu.In. . . . . 1.643-1.657

## PISTON PINS

Material . . . . . Chromium steel

### Length

V8-350 Cu.In. . . . . 2.990-3.010  
 V8-402 & 454 Cu.In. . . . . 2.930-2.950

### Diameter

V8-350 Cu.In. . . . . .9270-.9273  
 V8-402 & 454 Cu.In. . . . . .9895-.9898

### Clearance in Piston

V8-350 Cu.In. . . . . .00015-.00025  
 V8-402 Cu.In. . . . . .00025-.00035  
 V8-454 Cu.In. . . . . .00030-.00040

Pin Mounting . . . . . Locked in rod by shrink fit



# PRINCIPAL COMPONENTS

## COMPRESSION RINGS - UPPER

|                     |                              |
|---------------------|------------------------------|
| Material            | Cast alloy iron              |
| Type                | Straight edge inside of ring |
| Face                | Barrel                       |
| Coating             |                              |
| V8-350 Cu.In.       | Chrome plate                 |
| V8-402 & 454 Cu.In. | Molybdenum inlay             |
| Width               |                              |
| V8-350 Cu.In.       | .0775-.0780                  |
| V8-402 Cu.In.       | .0770-.0780                  |
| V8-454 Cu.In.       | .0770-.0775                  |
| Wall Thickness      |                              |
| V8-350 Cu.In.       | .190-.200                    |
| V8-402 Cu.In.       | .196-.206                    |
| V8-454 Cu.In.       | .202-.212                    |
| Gap                 |                              |
| V8-350 Cu.In.       | .010-.020                    |
| V8-402 & 454 Cu.In. | .010-.020                    |

## COMPRESSION RINGS - LOWER

|                     |  |
|---------------------|--|
| Material            | Cast alloy iron  |
| Type                | Inside bevel (Top of ring 30 degrees to piston vertical axis for V8-350, and 402; and 28°-5 2° for V8-454) |
| Face                | Tapered  |
| Coating             |  |
| V8-402 Cu.In.       | Chrome plated  |
| V8-350 & 454 Cu.In. | Wear resistant   |
| Width               |  |
| V8-350 Cu.In.       | .0770-.0775  |
| V8-402 Cu.In.       | .0770-.0780  |
| V8-454 Cu.In.       | .0770-.0775  |
| Wall Thickness      |  |
| V8-350 Cu.In.       | .190-.200  |
| V8-402 Cu.In.       | .196-.206  |
| V8-454 Cu.In.       | .202-.212  |
| Gap                 |  |
| V8-350 Cu.In.       | .013-.025  |
| V8-402 & 454 Cu.In. | .010-.020  |

## OIL CONTROL RINGS

|                     |  |
|---------------------|--|
| Type                | Multi-piece (Two rails and one spacer) |
| Material            |  |
| Rails               | Steel                                  |
| Spacer              | Alloy steel                            |
| Width (assembled)   | .1870-.1890                            |
| Wall Thickness      |  |
| V8-350 Cu.In.       | .150-.156                              |
| V8-402 Cu.In.       | .137-.143                              |
| V8-454 Cu.In.       | .137-.143                              |
| Gap                 |  |
| V8-350 Cu.In.       | .015-.055                              |
| V8-402 & 454 Cu.In. | .010-.030                              |
| Rail Coatings       | Chrome plated                          |

## CONNECTING RODS

|                           |                   |
|---------------------------|-------------------|
| Material                  | Drop forged steel |
| Length (center to center) |                   |
| V8-350 Cu.In.             | 5.695-5.705       |
| V8-402 & 454 Cu.In.       | 6.130-6.140       |

## CONNECTING ROD BEARINGS

|                     |                     |
|---------------------|---------------------|
| Material            |                     |
| V8-350 Cu.In.       | Premium aluminum    |
| V8-402 & 454 Cu.In. | Premium aluminum    |
| Type                | Precision removable |
| Clearance           |                     |
| V8-350 Cu.In.       | .0013-.0035         |
| V8-402 & 454 Cu.In. | .0009-.0025         |
| Theoretical I.D.    |                     |
| V8-350 Cu.In.       | 2.1019              |
| V8-402 & 454 Cu.In. | 2.2012              |
| Effective Length    |                     |
| V8-350 Cu.In.       | .797                |
| V8-402 & 454 Cu.In. | .847                |
| End Play            |                     |
| V8-350 Cu.In.       | .008-.014           |
| V8-402 & 454 Cu.In. | .015-.023           |

## FUEL TANK

|                    |                                  |
|--------------------|----------------------------------|
| Capacity           | 19 (approximately)               |
| Fuel Tank Location | Behind rear axle                 |
| Filler Location    | Behind hinged rear license plate |

## FUEL FILTERS, DUAL

|                     |               |
|---------------------|---------------|
| In Fuel Tank        | Mesh strainer |
| In Carburetor Inlet | Paper         |

## FUEL PUMP ASSEMBLY

|  |                              |
|--|------------------------------|
| Type   | Mechanical; diaphragm        |
| Drive  | Camshaft, eccentric          |
| Location                                       | Right side front of engine   |
| Pressure Range (shut off pressure at 1800 RPM) |                              |
| V8-350 Cu.In.                                  | 7.50-9.00 PSI at pump outlet |
| V8-402 & 454 Cu.In.                            | 7.50-9.00 PSI at pump outlet |

## AIR CLEANER

|                     |                             |
|---------------------|-----------------------------|
| Type                | Cylindrical single air horn |
|                     | V8-454 (LS6) Dual air horns |
| Diameter            |                             |
| V8-350 & 402 Cu.In. | 15.48                       |
| V8-454 (LS5) Cu.In. | 15.48                       |
| V8-454 (LS6) Cu.In. | 16.78                       |
| Filter Element      | Oil-wetted paper            |

## CARBURETORS

|                              |   |
|------------------------------|---|
| Make and Type                |   |
| V8-350 Cu.In.                |   |
| Base                         | Rochester, 2-barrel, downdraft (L48)  |
| V8-402 & 454 (LS5) Cu.In.    | Rochester, 4-barrel, Quadrajets   |
| V8-454 (LS6) Cu.In.          | Holley, 4-barrel  |
| SAE Flange Size              |   |
| V8-350 Cu.In. (base)         | 1.25  |
| V8-350 (L48) Cu.In.          | 1.50  |
| V8-402 & 454 Cu.In.          | 1.50  |
| Throttle Bore                |   |
| V8-350 Cu.In. (base)         | 1.69  |
| V8-350 Cu.In. (L48)          |   |
| Primary                      | 1.38  |
| Secondary                    | 2.25  |
| V8-402 & 454 (LS5) Cu.In.    |   |
| Primary                      | 1.38  |
| Secondary                    | 2.25  |
| V8-454 (LS6) Cu.In.          |   |
| Primary & Secondary          | 1.69  |
| Secondary Throttle Actuation | By linkage, approximately when primary valves are opened half way between closed and open |
| Venturi Diameter             |   |
| V8-350 Cu.In. (base)         | 1.25  |
| V8-350 Cu.In. (L48)          |   |
| Primary                      | 1.04  |
| Secondary                    | .625  |
| V8-402 & 454 (LS5) Cu.In.    |   |
| Primary                      | 1.04  |
| Secondary                    | .625  |
| V8-454 (LS6) Cu.In.          |   |
| Primary                      | 1.38  |
| Secondary                    | 2.25  |

## CHOKE

|      |           |
|------|-----------|
| Type | Automatic |
|------|-----------|

# EXHAUST AND VENTILATION SYSTEM

## TYPE

|               |                             |
|---------------|-----------------------------|
| V8-350 Cu.In. | Single with crossover pipes |
| V8-402 Cu.In. | Dual with resonators        |
| V8-454 Cu.In. | Dual with resonators        |

## MUFFLERS

|              |   |
|--------------|---|
| Type         | Oval, reverse flow  |
| Construction | Heads and body joined<br>by rolled lock seam construction |

### Head

|                     |                              |
|---------------------|------------------------------|
| V8-350 Cu.In.       | .055 sheet steel, aluminized |
| V8-402 & 454 Cu.In. |                              |
| Left hand           | .054 sheet steel, aluminized |
| Right hand          | .060 stainless steel         |

### Shell

|                     |                               |
|---------------------|-------------------------------|
| V8-350 Cu.In.       | .036 sheet steel, zinc coated |
| V8-402 & 454 Cu.In. |                               |
| Left hand           | .036 sheet steel, zinc coated |
| Right hand          | .036 stainless steel          |

|       |                              |
|-------|------------------------------|
| Wrap  | .030 indented asbestos sheet |
| Cover | .018 sheet steel, aluminized |

### Baffles

|               |  |
|---------------|--|
| V8-350 Cu.In. | No. 1 & 4-.048 zinc coated steel<br>No. 2 & 3-.036 zinc coated steel |
|---------------|--|

|                     |  |
|---------------------|--|
| V8-402 & 454 Cu.In. |  |
| (left)              | No. 1 & 4-.048 zinc coated steel<br>No. 2 & 3-.036 zinc coated steel |
| (right)             | No. 1 & 4-.036 stainless steel                                       |

|               |       |
|---------------|-------|
| Length, Body  | 21.25 |
| Width (I.D.)  | 9.25  |
| Height (I.D.) | 5.00  |

## EXHAUST CROSSOVER PIPE

|                   |                    |
|-------------------|--------------------|
| Dimensions (O.D.) |                    |
| V8-350 Cu.In.     | 2.00               |
| Wall Thickness    |                    |
| V8-350 Cu.In.     | .072-.92 laminated |

## EXHAUST PIPE

|                   |                     |
|-------------------|---------------------|
| Dimensions (O.D.) | 2.50                |
| Wall Thickness    | .072-.092 laminated |

## PIPE MUFFLER TO RESONATOR

|                     |           |
|---------------------|-----------|
| V8-402 & 454 Cu.In. |           |
| Diameter            | 2.00      |
| Wall Thickness      | .062-.076 |

## RESONATORS (V8-402 & 454 Cu.In.)

|       |                      |
|-------|----------------------|
| Type  | Straight through     |
| Cover | .035 stainless steel |
| Heads | .047 stainless steel |

## TAIL PIPES

|                     |           |
|---------------------|-----------|
| Dimensions (O.D.)   |           |
| V8-350 & 402 Cu.In. | 1.875     |
| V8-454 Cu.In.       | 2.00      |
| Wall Thickness      | .062-.076 |

## EXHAUST EMISSION CONTROLS

Engine Ventilation . . . . . Closed positive utilizes manifold vacuum to draw off engine crankcase vapors through a metered PCV valve and ultimately to the intake system for engine reburn

Controlled Combustion System . . . . . Increases combustion efficiency through leaner carburetor adjustments and revises distributor calibration

Combination Emission Control Valve . . . . . Controls vacuum supply to the distributor vacuum spark advance and positions the carburetor throttle blade during vehicle deceleration.

# LUBRICATION SYSTEM

## GENERAL

|                   |   |
|-------------------|---|
| Type              | Controlled full pressure                        |
| Main Bearings     | Pressure  |
| Piston Pins       | Splash  |
| Cylinder Walls    | Pressure, jet cross sprayed                     |
| Camshaft Bearings | Pressure  |
| Valve Lifters     | Pressure  |
| Rocker Arms       | Pressure  |
| Timing Gears      | Centrifugally oiled from front camshaft bearing |

### Oil Pressure Sending Unit

|           |                                      |
|-----------|--------------------------------------|
| Type      | Electric                             |
| Actuation | Opens or closes circuit @ 2 to 6 PSI |

### Oil Filler

|                     |                                  |
|---------------------|----------------------------------|
| Cap                 | Positive seal                    |
| Location            |                                  |
| V8-350 Cu.In.       | Rearward of left rocker cover    |
| V8-402 & 454 Cu.In. | Top center of right rocker cover |

## OIL PAN CAPACITIES (Quarts)

|                           |     |
|---------------------------|-----|
| Refill                    | 4   |
| Refill with Filter Change | 4.5 |

## LUBRICANT GRADES AND TEMPERATURES

|                 |                             |
|-----------------|-----------------------------|
| 20° F and Above | 20W, 10W-30, 10W-40, 20W-40 |
| 0° F to 60° F   | 10W, 5W-30, 10W-30, 10W-40  |
| Below 20° F     | 5W, 5W-20, 5W-30            |

## OIL PUMP

|   |                          |
|---|--------------------------|
| Type  | Gear                     |
| Regulator Valve                               | Opens between 40-45 lbs  |
| Oil Pressure (bench test, no flow conditions) |                          |
| V8-350 Cu.In.                                 | 40 PSI @ 2000 RPM        |
| V8-402 & 454 Cu.In.                           | 40 PSI @ 2000 RPM        |
| Intake Type                                   | Fixed pickup with screen |
| Capacity (GPM @ Engine RPM) (Theoretical)     |                          |
| V8-350 Cu.In.                                 | 4.3 @ 2000               |
| V8-402 & 454 Cu.In.                           | 6.0 @ 2000               |

## OIL FILTER

|                  |  |
|------------------|--|
| Type             | Full flow, throwaway canister              |
| Location         | Left rear side of engine                   |
| Capacity (pints) | One  |
| Bypass Valve     | Opens between 9 to 11 PSI drop in pressure |

## OIL PAN DRAIN PLUG

|                  |                                 |
|------------------|---------------------------------|
| Type             | Hex head                        |
| Location         | Left lower face of oil pan sump |
| Size of Hex Head | .860-.875                       |
| Thread           | 1/2-20 UNF 2A                   |
| Length           | 0.81                            |
| Diameter         | .410-.430                       |

## OIL DIP STICK - LOCATION

|                     |                                      |
|---------------------|--------------------------------------|
| V8-350 Cu.In.       | Left side, rear of engine block      |
| V8-402 & 454 Cu.In. | Right side, center direct to oil pan |

# COOLING SYSTEM

## GENERAL

|   |                     |
|---|---------------------|
| Type                                      | Liquid, pressurized |
| Capacity with Heater (Standard Equipment) |                     |
| V8-350 Cu.In.                             | 16 Qts.             |
| V8-402 Cu.In.                             | 23 Qts.             |
| V8-454 (LS5) Cu.In.                       | 23 Qts.             |
| V8-454 (LS6) Cu.In.                       | 22 Qts.             |

## RADIATOR

|                        |                           |
|------------------------|---------------------------|
| Make and Type          | Harrison, tube and center |
| Core Constant          |                           |
| Distance between Fins  |                           |
| V8-350 (Base) Cu.In.   | .16 (Syn) .22 (Auto)      |
| V8-350 (L48) Cu.In.    | .25 (Syn) .22 (Auto)      |
| V8-402 Cu.In.          | .18 (Syn) .16 (Auto)      |
| V8-454 (LS5) Cu.In.    | .16 (Syn) .22 (Auto)      |
| V8-454 (LS6) Cu.In.    | .16 (Syn) .16 (Auto)      |
| Distance between Tubes | .55                       |
| Thickness of core      | -                         |
| V8-350 & 402 Cu.In.    | 1.26                      |
| V8-454 Cu.In.          | 1.98                      |
| Frontal Area (Sq.In.)  |                           |
| V8-350 Cu.In.          | 353 (Syn) 480 (Auto)      |
| V8-402 & 454 Cu.In.    | 480                       |

## RADIATOR, HEAVY DUTY (RPO V01)

|                        |                        |
|------------------------|------------------------|
| Core Constant          |                        |
| Distance between Fins  |                        |
| V8-350 Cu.In.          | .11 (Syn) .16 (Auto)   |
| V8-402 Cu.In.          | .16 (Syn) .16 (Auto)   |
| V8-454 (LS5) Cu.In.    | .16 (Auto)             |
| V8-454 (LS6) Cu.In.    | .16 (Syn) .16 (Auto)   |
| Distance between Tubes | .55                    |
| Thickness of core      |                        |
| V8-350 Cu.In.          | 1.98 (Syn) 1.26 (Auto) |
| V8-402 Cu.In.          | 1.98                   |
| V8-454 Cu.In.          | 2.70                   |
| Frontal Area (Sq.In.)  | 480                    |

## RADIATOR CAP RELIEF VALVE

Opens at . . . . . Approximately 15 PSI

## THERMOSTAT

|                                  |           |
|----------------------------------|-----------|
| Type                             | Pellet    |
| Begins to Open at                | 192°-198° |
| Fully Opened at                  | 217°      |
| Thermostat By-Pass Hose (V8-454) | .745 I.D. |

## RADIATOR HOSE

|  |           |
|--|-----------|
| Outlet, Lower (Radiator to Water Pump)     | 1.75 I.D. |
| Inlet, Upper (Thermostat Hsg. to Radiator) | 1.50 I.D. |

## FAN

|                     |                                   |
|---------------------|-----------------------------------|
| Number of Blades    |                                   |
| V8-350 & 402 Cu.In. | 4                                 |
| V8-454 Cu.In.       | 5                                 |
| Diameter            |                                   |
| V8-350 Cu.In.       | 17.62                             |
| V8-402 & 454 Cu.In. | 18.00                             |
| V8-454 (LS6) Cu.In. | Thermo-modulated viscous coupling |

## BELTS, CRANKSHAFT, FAN AND GENERATOR

|                           |         |
|---------------------------|---------|
| Number Used               | One     |
| Angle of "V"              | 38°-42° |
| Pitch Line                |         |
| V8-350 Cu.In.             | 44.25   |
| V8-402 & 454 (LS5) Cu.In. | 45.75   |
| V8-454 (LS6) Cu.In.       | 47.50   |
| Width                     | .380    |

## WATER PUMP

|                            |  |
|----------------------------|--|
| Type                       | Centrifugal                            |
| Capacity                   |  |
| V8-350 Cu.In.              | 25 GPM @ 2000 Engine RPM               |
| V8-402 Cu.In.              | 25 GPM @ 2000 Engine RPM               |
| V8-454 (LS5) Cu.In.        | 25 GPM @ 2000 Engine RPM               |
| V8-454 (LS6) Cu.In.        | 27 GPM @ 2000 Engine RPM               |
| Bearing                    | Permanently lubricated double row ball |
| Drive                      | Fan belt                               |
| Ratio (Pump to Engine RPM) | .949:1                                 |

## DRAIN LOCATIONS AND TYPE

|                     |                              |
|---------------------|------------------------------|
| Radiator-Petcock    |                              |
| All Engines         | Lower right side of radiator |
| Engine Block-Plug   |                              |
| V8-350 Cu.In.       | Right and left center        |
| V8-402 & 454 Cu.In. | Left side-rear of block      |
|                     | Right side - center of block |

# ELECTRICAL SYSTEM

## SUPPLY SYSTEM

### BATTERY

|                              |                                      |
|------------------------------|--------------------------------------|
| Voltage Rating               | 12                                   |
| Cranking Power @ 0° F        |                                      |
| V8-350 & 402 Cu.In.          | 2900 watts                           |
| V8-454 Cu.In.                | 3750 watts                           |
| Heavy Duty (RPO T60)         | 3750 watts                           |
| Capacity (SAE) @ 20 hr. rate |                                      |
| V8-350 & 402 Cu.In.          | 61 amp. hr.                          |
| V8-454 Cu.In.                | 80 amp. hr.                          |
| Heavy Duty                   | 80 amp. hr.                          |
| Total Number of Plates       |                                      |
| V8-350 & 402 Cu.In.          | 66                                   |
| V8-454 Cu.In.                | 90                                   |
| Heavy Duty (RPO T60)         | 90                                   |
| Number of Cells              | 6                                    |
| Terminal Grounded            | Negative                             |
| Location                     | Engine compartment; right side front |

### GENERATOR

|                                |                            |
|--------------------------------|----------------------------|
| Type                           | Diode rectified            |
| Rating                         |                            |
| Amps                           | 37                         |
| Volts                          | 12-15                      |
| Drive                          | By fan belt                |
| Pulley Pitch Diameter          | 2.70                       |
| ● Ratio (Gen. to Engine Speed) | 2.53:1                     |
|                                | V8-454 Cu.In. (LS6) 2.15:1 |

### REGULATOR

|   |                                     |
|---|-------------------------------------|
| Type  | Two unit, vibrator                  |
| Voltage Regulator                               |                                     |
| Voltage   | 13.8-14.8 @ 85 degrees F            |
| Field Relay (Combination Light and Field Relay) |                                     |
| Closing Voltage                                 | 1-3 volts @ 80 degrees F            |
| Location  | Engine compartment; left side front |

### IGNITION SYSTEM

DISTRIBUTORS . . . . . Refer to chart below

### COIL

|                |         |
|----------------|---------|
| Type           | 12-Volt |
| Amperes Drawn  |         |
| Engine Stopped | 4.0     |
| Engine Idling  | 1.8     |

### SPARK PLUGS

|                           |            |
|---------------------------|------------|
| Type                      |            |
| V8-350 (Base)             | ACR45TS    |
| V8-350 (L48)              | ACR44TS    |
| V8-402 & 454 (LS6) Cu.In. | ACR44TS    |
| V8-454 (LS5) Cu.In.       | ACR43TS    |
| Thread Size (mm)          | 14         |
| Gap                       | .038-.038  |
| Torque                    | 25 lb. ft. |

CABLE . . . . . Linen core impregnated with electrical conducting material and insulation of rubber with neoprene jacket.

### STARTING SYSTEM

#### STARTING MOTOR

|                           |                                 |
|---------------------------|---------------------------------|
| Rotation (Drive End View) | Clock wise                      |
| Test Conditions           | Engine at operating temp.       |
| No Load Test              |                                 |
| Amps                      |                                 |
| V8-350 Cu.In.             | 65-100                          |
| V8-400 & 454 Cu.In.       | 70-99                           |
| Volts                     | 10.6                            |
| RPM                       |                                 |
| V8-350 Cu.In.             | 3600-5100                       |
| V8-402 & 454 Cu.In.       | 7800-12000                      |
| Motor Drive               |                                 |
| Engagement                | Solenoid                        |
| Pinion Tooth No.          | 9                               |
| Flywheel Tooth No.        |                                 |
| V8-350 Cu.In.             | 153                             |
| V8-400 & 454 Cu.In.       | 168                             |
| Mounting                  | Bolted to cylinder block flange |

| DISTRIBUTORS   | Transmission | 350 Cu.In.       |                 | 402 Cu.In.     | 454 Cu.In.  |                  |
|--|--------------|------------------|-----------------|----------------|-------------|------------------|
|  |              | V8-240 HP        | V8-270 HP       | V8-300 HP      | V8-365 HP   | V8-425 HP        |
| Model  | Manual       | 1112042          | 1112044         | 1112057        |             | 1112075          |
|  | Automatic    | 1112005          | 1112045         | 1112057        | 1112052     | 1112054          |
| Type   |              | Single breaker   |                 |                |             |                  |
| Cam angle  |              | 29° - 31°        |                 |                | 28° - 30°   |                  |
| Breaker gap  |              | .019 (new)       |                 |                |             |                  |
| Breaker arm tension  |              | 19 - 23 oz.      |                 |                | 28 - 32 oz. |                  |
| Centrifugal advance<br>begins - RPM  | Manual       | 1120             | 1160            | 1260           |             | 1200             |
|  | Automatic    | 1000             | 1335            | 1260           | 1143        | 1310             |
| Maximum<br>degrees @ RPM   | Manual       | 28 @ 4300        | 22 @ 4200       | 30 @ 4400      |             | 32 @ 5000        |
|  | Automatic    | 24 @ 4300        | 18 @ 4200       | 30 @ 4400      | 22 @ 3900   | 28 @ 5000        |
| Vacuum advance<br>begins @ In. Hg.   | Manual       | 8.00             | 8.00            | 8.00           |             | 7.00             |
|  | Automatic    | 7.00             | 8.00            | 8.00           |             | 7.00             |
| Maximum degrees<br>@ In. Hg.   | Manual       | 20 @ 17          | 15 @ 15.5       | 20 @ 17        |             | 12 @ 12          |
|  | Automatic    | 24 @ 15          | 15 @ 15.5       | 20 @ 17        |             | 12 @ 12          |
| Timing (initial design<br>setting) Crankshaft<br>degrees @ RPM<br>with vacuum line<br>disconnected | Manual       | 2° BTC<br>@ 600  | 4° BTC<br>@ 600 | 8 BTC<br>@ 600 |             | 8° BTC<br>@ 700  |
|  | Automatic    | 6° BTC<br>@ 550  | 8° BTC<br>@ 550 | 8° BTC @ 600   |             | 12° BTC<br>@ 700 |
| Timing mark location   |              | Torsional damper |                 |                |             |                  |

# CLUTCHES AND TRANSMISSIONS

## CLUTCHES

| Engine                        | Type - Cubic Inch     | V8-350                                   |                                    | V8-402  | V8-454  |  |
|-------------------------------|-----------------------|--|------------------------------------|---------|---------|--|
| Clutch for                    | Availability          | Standard                                 | RPO L48                            | RPO LS3 | RPO LS6 |  |
| Type                          |                       | 3-Speed & 4-Speed                        |                                    |         |         |  |
| Clutch cover & pressure plate | Eff. plate load, lbs. | 2100-2300                                | 2450-2750                          |         |         |  |
|                               | Press. plate matl.    | Nodular Iron                             |                                    |         |         |  |
|                               | Clutch spring type    | Diaphragm bent finger design             |                                    |         |         |  |
|                               | Clutch spring matl.   | Heat treated spring steel                |                                    |         |         |  |
| Driven plate                  | Type                  | Single disc with two friction surfaces   |                                    |         |         |  |
|                               | Cushions              | Flat spring steel between friction rings |                                    |         |         |  |
|                               | Damper                | 10 Coil springs (5 sets of two)          |                                    |         |         |  |
|                               | Friction ring         | OD                                       | 10.34                              | 11.00   |         |  |
|                               |                       | ID                                       | 6.50                               | 6.50    |         |  |
| Total area Sq. In.            |                       | 101.54                                   | 123.70                             |         |         |  |
|                               | Material              | Premium grade woven asbestos             |                                    |         |         |  |
| Flywheel & Ring gear          | Flywheel              | Cast Iron                                |                                    |         |         |  |
|                               | Material              | Nodular Iron                             |                                    |         |         |  |
|                               | Ring gear             | Cast iron                                |                                    |         |         |  |
|                               | No. of teeth          | 168                                      |                                    |         |         |  |
|                               | PD                    | 14.00                                    |                                    |         |         |  |
|                               | Attachment            | Shrink fit                               |                                    |         |         |  |
| Bearings                      | Release               | Type                                     | Single row ball                    |         |         |  |
|                               |                       | Lubrication                              | None, prepacked                    |         |         |  |
|                               | Pilot                 | Type                                     | Bronze bushing                     |         |         |  |
|                               |                       | Lubrication                              | None, sintered and oil impregnated |         |         |  |
| Controls                      | Clutch fork           | Drop forged steel, pivot mounted on ball |                                    |         |         |  |
|                               | Pedal mounting        | Pendant, from brace on dash              |                                    |         |         |  |
|                               | Lubrication           | Crossover shaft                          |                                    |         |         |  |
| Clutch housing material       |                       | Aluminum alloy                           |                                    |         |         |  |

## 3-SPEED AND 4-SPEED TRANSMISSIONS

| Transmission Type | 3-Speed            |   | 4-Speed           |         |         |      |
|-------------------|--------------------|---|-------------------|---------|---------|------|
| Engine            | Type               | V8-350  | V8-350            | V8-402  | V8-454  |      |
| Case Material     | Availability       | Standard  | RPO L48           | RPO LS3 | RPO LS6 |      |
|                   |                    | Cast iron   | Aluminum          |         |         |      |
| Gear Shift        | Type               | Remote  |                   |         |         |      |
|                   | Control            | Lever   |                   |         |         |      |
|                   | Location           | Steering column   |                   |         |         |      |
| Gears             | Type               | Helical   |                   |         |         |      |
|                   | Material           | Forged steel, hardened                                    |                   |         |         |      |
|                   | Synchronization    | All forward gears   |                   |         |         |      |
|                   | Constant mesh gear | All gears   | All forward gears |         |         |      |
|                   | Sliding gears      | None  | Reverse           |         |         |      |
|                   | Ratios             | First   | 2.54              | 2.52    | 2.52    | 2.20 |
|                   |                    | Second  | 1.50              | 1.88    | 1.88    | 1.64 |
|                   |                    | Third   | 1.00              | 1.46    | 1.46    | 1.27 |
| Fourth            |                    |   | 1.00              | 1.00    | 1.00    |      |
| Reverse           |                    | 2.63  | 2.59              | 2.59    | 2.26    |      |
| Lubricant         | Type               | Meeting Military Specifications MIL-L-2105B               |                   |         |         |      |
|                   | Capacity (pts)     | 3   |                   |         |         |      |
| Extension         | Material           | Cast iron   | Aluminum          |         |         |      |
|                   | Oil seal           | Steel encased double seal of spring loaded rubber or felt |                   |         |         |      |

## POWERGLIDE TRANSMISSION

|                       |   |   |  |  |
|-----------------------|---|---|--|--|
| Engine                | Type  | V8-350 Cu. In.  |  |  |
|                       | Availability  | Standard engine only  |  |  |
| General data          | Type  | Automatic hydraulic torque converter with planetary gear system for low and reverse   |  |  |
|                       | Selector lever                                      | Location  | Steering column (a)                                  |  |
|                       |   | Operation   | Actuates manual valve in hydraulic control system    |  |
|                       |   | Quadrant pattern  | P-R-N-D-L  |  |
|                       | Parking lock  | Type  | Pawl and gear (on planetary)                         |  |
|                       |   | Operation   | Applied by selector lever thru spring loaded linkage |  |
|                       | Method of cooling                                   | Water   |  |  |
| Flywheel assembly     | Steel stamping with welded on ring gear             |   |  |  |
| Hydraulic             | Manual valve type                                   | Spool   |  |  |
|                       | Pressure regulator valve type                       | Spool   |  |  |
|                       | Pressure @ Idle (b)                                 | Drive   | 51   |  |
|                       |   | Low   | 121  |  |
|                       |   | Reverse   | 93   |  |
| Converter assembly    | Type  | Three element   |  |  |
|                       | Pump  | Inner and outer sheet steel shells separated by sheet steel vanes. Outer shell is pump housing which is welded to converter housing.                    |  |  |
|                       | Turbine   | Inner and outer shells separated by sheet steel vanes. Assembly supported in converter cover.   |  |  |
|                       | Stator  | Operation independent of cover and pump housing. Aluminum air foil supported on a stationary sleeve by an over-running clutch of cam and roller design. |  |  |
|                       | Stall torque ratio                                  | 2.10  |  |  |
|                       | Stall speed (RPM)                                   | 1810  |  |  |
|                       | Diameter (nominal)                                  | 11.75   |  |  |
| Planetary gear set    | Type  | Compound planetary  |  |  |
|                       | Range   | Drive   | 1.76 to 1.00   |  |
|                       |   | Low   | 1.76   |  |
|                       |   | Reverse   | 1.76   |  |
|                       | Low band  | Three linked circular segments  |  |  |
| Low band servo        | Piston with release spring and inner cushion spring |   |  |  |
| Case                  | Material  | Aluminum (one piece)  |  |  |
| High clutch           | Type  | Multi-disc  |  |  |
|                       | Drive plates  | Description   | Waved steel with bonded organic facings              |  |
|                       |   | Number  | 4  |  |
|                       | Driven plates                                       | Description   | Flat steel   |  |
| Number                |   | 5   |  |  |
| Reverse clutch        | Type  | Multi-disc  |  |  |
|                       | Drive plates  | Description   | Flat steel with bonded organic facings               |  |
|                       |   | Number  | 5  |  |
|                       | Reaction plates                                     | Description   | Flat steel   |  |
| Number                |   | 5   |  |  |
| Torque multiplication | Maximum overall ratio                               | 3.70  |  |  |
|                       | Low and reverse                                     | 3.70 to 1.76  |  |  |
| Lubricant             | Type  | A suffix A  |  |  |
|                       | Capacity (pts)                                      | Dry   | 19   |  |
|                       |   | Refill  | 6.5  |  |
| Governor              | Type  | Centrifugal   |  |  |
|                       | Operation   | Regulates pump oil pressure to automatic shift control valve  |  |  |
|                       | Drive   | -   |  |  |
|                       | Location  | Mounted on output shaft in extension  |  |  |
| Oil pump              | Type  | Internal-external gear  |  |  |
|                       | Number  | One; front  |  |  |
|                       | Function  | To supply pressure  |  |  |
|                       | Drive   | Converter pump  |  |  |

(a) Floor mounted available when bucket seats are used.  
 (b) 450 RPM input @ 25 in. Hg. vacuum.



# TRANSMISSIONS

## TURBO HYDRA-MATIC TRANSMISSIONS

| Engine                | Displacement  | V8-350  | V8-402 & V8-454   |                          |
|-----------------------|---|---|---|--------------------------|
| General               | Type  | Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse.          |   |                          |
|                       | Selector lever                                      | Location  | Steering column   |                          |
|                       |   | Operation   | Actuates controls by a hydraulic system from pressurized gear type pump |                          |
|                       | Parking   | Quadrant pattern  | P-R-N-D-L2-L1   |                          |
|                       |   | Type  | Locking pawl  |                          |
|                       | Lock  | Operation   | Applied by selector lever through manual linkage                        |                          |
|                       | Method of cooling                                   |   | Water   |                          |
| Hydraulic System      | Flywheel assembly                                   | Steel stamping with welded on ring gear   |   |                          |
|                       | Oil pressure pump                                   | Supplies hydraulic pressure from an engine driven gear type pump  |   |                          |
|                       | Type  | Steel spool   |   |                          |
|                       | Manual  | Establishes range at transmission operation   |   |                          |
|                       | Pressure regulator                                  | Controls main line pressure   |   |                          |
|                       | Shift (1-2)   | Controls oil pressure for transmission shift from 1-2 or 2-1  |   |                          |
|                       | Shift (2-3)   | Controls oil pressure for transmission shift from 2-3 or 3-2  |   |                          |
|                       | Modulator   | Regulates line pressure with modulator oil pressure that varies with torque to transmission                           |   |                          |
|                       | Accumulator   | To obtain greater flexibility in attaining desired shift curve for various engine requirements                        |   |                          |
|                       | Pressure @ Idle (a)                                 | Drive   | 55  | 70                       |
|                       |   | L2  | 80  | 150                      |
|                       |   | L1  | 80  | 150                      |
|                       |   | Reverse   | 84  | 107.5                    |
| Converter Assembly    | Pump (Drive member)                                 | Multivane type, sheet metal blade spot welded to steel pump housing that is an integral part of the converter housing |   |                          |
|                       | Turbine (Driven member)                             | Steel axial flow blades assembled between inner & outer steel shells  |   |                          |
|                       | Stator assembly                                     | Aluminum multivane type blades mounted on a one way (overrunning) roller clutch                                       |   |                          |
|                       | Stall ratio   | 2.10  |   |                          |
|                       | Stall speed (RPM)                                   | 2110  |   |                          |
|                       | Diameter (nominal)                                  | 11.75   | 12.20   |                          |
| Planetary Gear Set    | Reaction carrier assembly                           | 4 steel pinion gears  |   |                          |
|                       | Output carrier assembly                             | 4 steel pinion gears  |   |                          |
|                       | Front band  |   | Circular steel with organic lining                                      |                          |
|                       | Rear band   |   | Double wrap circular steel  |                          |
|                       | Intermediate band                                   | circular steel with organic lining  |   |                          |
|                       | Range   | D (Drive)   | 2.52:1 - 1.52:1 - 1.00:1  | 2.48:1 - 1.48:1 - 1.00:1 |
|                       |   | L2 (Low two)  | 2.52:1 - 1.52:1   | 2.48:1 - 1.48:1          |
|                       |   | L1 (Low one)  | 2.52:1  | 2.48:1                   |
| R (Reverse)           |   | 1.93:1  | 2.08:1  |                          |
| Servo Unit            | Piston with release spring and inner cushion spring |   |   |                          |
| Case                  | Material  | Aluminum  |   |                          |
| Clutches              | Type  | Four, multiple disk   | Three, multiple disk  |                          |
|                       | Material  | Drive plates  | Steel with bonded organic facings                                       |                          |
|                       |   | Driven plates   | Flat steel  |                          |
|                       | Forward clutch                                      | 4 each drive & driven plates  | 5 each drive & driven plates  |                          |
|                       | Direct clutch                                       | 4 each drive & driven plates  | 5 each drive & driven plates  |                          |
|                       | Intermediate clutch                                 | 2 each drive & driven plates  | 3 each drive & driven plates  |                          |
|                       | Low & Reverse clutch                                | 4 each drive & driven plates  |   |                          |
| Release spring        | Radial row steel coil                               |   |   |                          |
| Torque Multiplication | Drive (maximum)                                     | 5.29:1 to 1.00  | 5.21:1 to 1.00  |                          |
|                       | Low 2   | 5.29:1 to 1.52  | 5.21:1 to 1.48  |                          |
|                       | Low 1   | 5.29:1 to 2.52  | 5.21:1 to 2.48  |                          |
|                       | Reverse   | 4.05:1 to 1.93  | 4.37:1 to 2.08  |                          |
| Governor              | Type  | Cross-axis centrifugal  |   |                          |
|                       | Operation   | Regulates a pressure proportional to car speed which acts upon the (1-2) (2-3) shift and modulator valves             |   |                          |
| Lubricant             | Type  | A suffix A  |   |                          |
|                       | Capacity (pints)                                    | Dry<br>Refill   | 20<br>5   | 22<br>8                  |

(a) Floor mounted when console is used quadrant changes to P - R - N - 3 - 2 - 1.

(b) 450 RPM input @ 25 in. Hg. vacuum.

# 1971

## AMA SPECIFICATIONS FORM

### . . . Passenger Car

|  |                         |   |
|--|-------------------------|---|
| MANUFACTURER<br>Chevrolet Motor Division<br>General Motors Corporation | CAR NAME<br>MONTE CARLO |   |
| FILE COPY ONLY   | MODEL YEAR<br>1971      | ISSUED<br>9/70<br>REVISION (#)<br>12/70 |

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown above. This specification form was developed by automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

AMA-10A-71

● Please replace corresponding pages with revised pages attached.

# AMA Specifications Form—Passenger Car

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### NOTES

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

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

BODY MODEL

Body type, number of passengers, and style names; use manufacturer's code for series & body style.

MONTE CARLO

2-Door Sport Coupe, 5-Passenger

V-8  
Engine

13857

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

**CAR AND BODY DIMENSIONS**

See Pages 27, 28 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

| MODEL                                     | SAE Ref. No. |                             |
|---|--------------|-----------------------------|
|   |              | Sport Coupe                 |
| <b>WIDTH</b>                              |              |                             |
| Track - Front                             | W101         | 60.2                        |
| Track - Rear                              | W102         | 59.3                        |
| Maximum overall car width                 | W103         | 75.6                        |
| Body width at No. 2 pillar                | W117         |                             |
| <b>LENGTH</b>                             |              |                             |
| Body "O" to front of dash                 | L 30         | 0.0                         |
| Wheelbase                                 | L101         | 116.0                       |
| Overall car length                        | L103         | 206.5                       |
| Overhang - front                          | L104         | 41.7                        |
| Overhang - rear                           | L105         | 48.8                        |
| Body upper structure length               | L123         | 93.4                        |
| Body "O" line to $\epsilon$ of rear wheel | L127         | 95.5                        |
| Body "O" line to w/s cowl point           | L130         | 10.4                        |
| <b>HEIGHT</b>                             |              |                             |
| Passenger Distribution (front & rear)     |              | 2-3                         |
| Trunk/Cargo load (lbs.)                   |              | 200                         |
| Overall height                            | H101         | 52.9                        |
| Cowl height                               | H114         | 37.8                        |
| Deck height                               | H138         | NA                          |
| Rocker panel - front                      | H112         | To ground                   |
|   |              | From front wheel $\epsilon$ |
| Rocker panel - rear                       | H111         | To ground                   |
|   |              | From rear wheel $\epsilon$  |
| Windshield slope angle                    | H122         | 53.0                        |
| <b>GROUND CLEARANCE</b>                   |              |                             |
| Bumper to ground - front                  | H102         | 13.6                        |
| Bumper to ground - rear                   | H104         | 12.8                        |
| Angle of approach                         | H106         | 25.9                        |
| Angle of departure                        | H107         | 20.8                        |
| Ramp breakover angle                      | H147         | 13.7                        |
| Min. running clearance (Specify)          | H156         | 4.7                         |

## AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (0)

## CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

| MODEL                                 | SAE Ref. No. |                                 |
|---------------------------------------|--------------|---------------------------------|
|                                       |              | Sport Coupe                     |
| <b>FRONT COMPARTMENT</b>              |              |                                 |
| Effective head room                   | H61          | 37.6                            |
| Max. eff. leg room - accelerator      | L34          | 42.8                            |
| H Point to Heel point                 | H30          | 8.1                             |
| H Point travel                        | L17          | 4.8                             |
| Shoulder room                         | W 3          | 58.0                            |
| Hip room                              | W 5          | 59.4                            |
| Upper body opening to ground          | H50          | 48.2                            |
| <b>REAR COMPARTMENT</b>               |              |                                 |
| H Point couple distance               | L50          | 30.6                            |
| Effective head room                   | H63          | 36.3                            |
| Min. effective leg room               | L51          | 32.3                            |
| H Point to Heel point                 | H31          | 10.1                            |
| Min. knee room                        | L48          | 0.7                             |
| Rear Compartment room                 | L 3          | 23.7                            |
| Shoulder room                         | W 4          | 56.6                            |
| Hip room                              | W 6          | 53.0                            |
| Upper body opening to ground          | H51          | NA                              |
| <b>LUGGAGE COMPARTMENT</b>            |              |                                 |
| Usable luggage capacity               | V 1          | 12.9                            |
| Liftover height                       | H195         | 25.7                            |
| Position of spare tire storage        |              | Horizontal; right side of trunk |
| Method of holding lid open            |              | Boxed hinges with torsion rod   |
| <b>STATION WAGON - THIRD SEAT</b>     |              |                                 |
| Shoulder Room                         | W85          |                                 |
| Hip room                              | W86          |                                 |
| Effective leg room                    | L86          |                                 |
| Effective head room                   | H86          |                                 |
| Seat facing direction                 |              |                                 |
| <b>STATION WAGON - CARGO SPACE</b>    |              |                                 |
| Cargo length at floor - front seat    | L202         |                                 |
| Cargo length at belt - front seat     | L204         |                                 |
| Cargo width - Wheelhouse              | W201         |                                 |
| Opening width at belt                 | W204         |                                 |
| Maximum cargo height                  | H201         |                                 |
| Rear opening height                   | H202         |                                 |
| Cargo volume index (cu. ft.)          | V2           |                                 |
| $W4 \times L204 \times H201$ $= 1728$ |              |                                 |

# AMA Specifications Form — Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

## POWER TEAMS

(Indicate whether standard or optional)

(Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.)

(Net bhp (brake horsepower) and net torque corrected to 85° F and 29.00 in. Hg atmospheric pressure.)

| MODEL AVAILABILITY | ENGINE                              |            |              |            |            |              |                   | TRANSMISSION                    | AXLE RATIO**                        |      |
|--------------------|-------------------------------------|------------|--------------|------------|------------|--------------|-------------------|---------------------------------|-------------------------------------|------|
|                    | Displ. cu. in.                      | Cyls       | Compr. Ratio | BHP @ RPM  |            | Torque @ RPM |                   |                                 | (Std. first) (Indicate A/C ratio) # |      |
|                    |                                     |            |              | Gross      | Net        | Gross        | Net               |                                 | A                                   | B    |
| All Models         | Turbo Fire 350 V-8 (base)           | One; 2-bbl | 8.5:1        | 245 @ 4800 | 165 @ 4000 | 350 @ 2800   | 280 @ 2400        | 3-spd. manual (2.54:1 low)      | 3.08                                | - -  |
|                    |                                     |            |              |            |            |              |                   | 2-spd. automatic*               |                                     |      |
|                    |                                     |            |              |            |            |              |                   | 3-spd. automatic*               | 2.73                                | 3.31 |
|                    | Turbo Fire 350 V-8 (I48)*           | One; 4-bbl | 8.5:1        | 270 @ 4800 | 175 @ 4000 | 360 @ 3200   | 290 @ 2400        | 4-spd. manual (2.52:1 low)      | 3.31                                | - -  |
|                    |                                     |            |              |            |            |              |                   | 3-spd. automatic*               | 2.73                                | - -  |
|                    | Turbo Jet 400 V-8 (402 c.i.) (LS3)* | One; 4-bbl | 8.5:1        | 300 @ 4800 | 260 @ 4400 | 400 @ 3200   | 345 @ 3200        | 4-spd. manual (2.52:1 low)      | 3.31                                | - -  |
|                    |                                     |            |              |            |            |              | 3-spd. automatic* | 2.73                            | - -                                 |      |
|                    | Turbo Jet 454 V-8 (LS5)* (Z20)      | One; 4-bbl | 8.5:1        | 365 @ 4800 | 285 @ 4000 | 465 @ 3200   | 390 @ 3200        | 3-spd. automatic                | 3.31                                | - -  |
|                    | Turbo Jet 454 V-8 (LS6)* (Z20)      | One; 4-bbl | 9.0:1        | 425 @ 5600 | 325 @ 5600 | 475 @ 4000   | 390 @ 3600        | H.D. 4-spd. manual (2.20:1 low) | 3.31                                | - -  |
|                    |                                     |            |              |            |            |              |                   | 3-spd. automatic*               | 3.31                                | - -  |

\* - Optional  
 \*\* - Positraction available optionally for all ratios  
 A - Standard  
 B - Trailer option  
 # - Same ratios available optionally for all ratios except LS6

## AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (•)

|       |                    |               |                       |
|-------|--------------------|---------------|-----------------------|
| MODEL | Turbo-Fire 350     | Turbo-Jet 400 | Turbo-Jet 454         |
|       | V8-245 HP   V8-270 | V8-300 HP     | V8-365 HP   V8-425 HP |

## ENGINE - GENERAL

|  |   |              |                 |
|--|---|--------------|-----------------|
| Type, no. cyls., valve arr.                  | 90° V-8 OHV   |              |                 |
| Bore and stroke (nominal)                    | 4.00 x 3.48   | 4.126 x 3.76 | 4.251 x 4.00    |
| Piston displacement, cu. in.                 | 350   | 402          | 454             |
| Bore spacing (C to C)                        | 4.40  | 4.84         |                 |
| No. system<br>(front to rear)                | L. Bank   | 1-3-5-7      |                 |
|  | R. Bank   | 2-4-6-8      |                 |
| Firing order                                 | 1-8-4-3-6-5-7-2   |              |                 |
| Compress. ratio (nominal)                    | 8.5:1   |              | 9.0:1           |
| Cylinder Head Combustion Chamber Volume (cc) | 99.61   | 113.21       | 127.60   119.09 |
| Cylinder Head Material                       | Cast alloy iron   |              |                 |
| Cylinder Block Material                      | Cast alloy iron   |              |                 |
| Cyl. Sleeve-Wet, dry, none                   | None  |              |                 |
| Number of<br>mtg. points                     | Front   | Two          |                 |
|  | Rear  | One          |                 |
| Engine installation angle                    | 4° 46'  |              |                 |
| Taxable<br>horsepower                        | $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$<br>51.2 | 54.5         | 57.8            |
| Recommended fuel<br>regular - premium        | Regular   |              |                 |

## ENGINE - PISTONS

| Material                 | Cast aluminum alloy         |                             |                            | Impact<br>extruded                |
|--------------------------|-----------------------------|-----------------------------|----------------------------|-----------------------------------|
|                          | Sump head;<br>slipper skirt | Domed head;<br>valve cutout | Flat head;<br>valve cutout | Domed head;<br>notched            |
| Weight (piston only) oz. | 21.50                       | 24.16                       | 25.92                      | 23.28                             |
| Clearance<br>(limits)    | Top land                    | .0235 - .0325               | .0310 - .0370              | .0350 - .0410   .0320 - .0380     |
|                          | Skirt                       | Top<br>.0007 - .0017 (a)    | Bottom<br>.0018-.0028 (b)  | .0024-.0034 (c)   .0040-.0050 (d) |
| Ring groove<br>diameter  | No. 1 ring                  | 3.546 - 3.556               | 3.649 - 3.659              | 3.770 - 3.780   3.765 - 3.775     |
|                          | No. 2 ring                  | 3.546 - 3.556               | 3.649 - 3.659              | 3.770 - 3.780   3.765 - 3.775     |
|                          | No. 3 ring                  | 3.582 - 3.592               | 3.678 - 3.688              | 3.803 - 3.813   3.816 - 3.820     |
|                          | No. 4 ring                  |                             |                            |                                   |

(a) Measured 1.56 from top of piston

(b) Measured 1.878 from top of piston

(c) Measured 1.69 from top of piston

(d) Measured 1.65 from top of piston



# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (a)

|       |               |          |               |
|-------|---------------|----------|---------------|
| MODEL | V8 - 350      | V8 - 400 | V8 - 454      |
|       | 245 HP 270 HP | 300 HP   | 365 HP 425 HP |

## ENGINE - RINGS

|                          |   |  |               |
|--------------------------|---|--|---------------|
| Function (top to bottom) | No. 1, oil or comp.                         | Compression  |               |
|                          | No. 2, oil or comp.                         | Compression  |               |
|                          | No. 3, oil or comp.                         | Oil  |               |
|                          | No. 4, oil or comp.                         | ---  |               |
| Compression              | Description - Upper material, coating, etc. | Cast alloy iron; barrel face (a)   |               |
|                          | Lower                                       | Cast alloy iron, inside bevel; tapered face (b)  |               |
|                          | Width                                       | (c) .0770 - .0780  | .0770 - .0775 |
|                          | Gap   | (d) .010 - .020  |               |
| Oil                      | Description - material, coating, etc.       | Multi-piece (2 rails and 1 spacer expander)<br>Rails-steel, chrome plated O.D.; expander-stainless steel |               |
|                          | Width                                       | .1870 - .1890 (assembled)  |               |
|                          | Gap   | .015 - .055  |               |
|                          | Expanders                                   | In oil ring assembly   |               |

## ENGINE - PISTON PINS

|                                     |  |                  |                 |
|-------------------------------------|--|------------------|-----------------|
| Material                            | Chromium steel                           |                  |                 |
| Length                              | 2.990 - 3.010                            | 2.930 - 2.950    |                 |
| Diameter                            | .9270 - .9273                            | .9895 - .9898    |                 |
| Type                                | Locked in rod, in piston, floating, etc. | Locked in rod    |                 |
|                                     | Bush- ing                                | In rod or piston | None            |
|                                     | Material                                 | ---              |                 |
| Clearance                           | In piston                                | .00015 - .00025  | .00025 - .00035 |
|                                     | In rod                                   | None             |                 |
| Direction & amount offset in piston | Major thrust side .060                   |                  | On center       |

## ENGINE - CONNECTING RODS

|                           |                    |                  |               |
|---------------------------|--------------------|------------------|---------------|
| Material                  | Drop forged steel  |                  |               |
| Weight (oz.)              | 20.80              | 27.84            |               |
| Length (center to center) | 5.695 - 5.705      | 6.130 - 6.140    |               |
| Bearing                   | Material & Type    | Premium aluminum |               |
|                           | Overall length     | .797             | .847          |
|                           | Clearance (limits) | .0013 - .0035    | .0009 - .0025 |
|                           | End play           | .008 - .014      | .015 - .023   |

- (a) Chrome plate on V8-350; molybdenum inlay on V8-400 & 454
- (b) Chrome plate on V8-400 only; wear resistant coating all other
- (c) Upper .0775 - .0780; lower .0770 - .0775
- (d) Upper .010 - .020; lower .013 - .025

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

|  |                             |                    |                             |
|--|-----------------------------|--------------------|-----------------------------|
|  | V8 - 350<br>245 HP   270 HP | V8 - 400<br>300 HP | V8 - 454<br>365 HP   425 HP |
|--|-----------------------------|--------------------|-----------------------------|

### ENGINE - CRANKSHAFT

|                                   |   |                        |                |                 |                |
|-----------------------------------|---|------------------------|----------------|-----------------|----------------|
| Material                          |   | Cast nodular iron      |                | Forged steel    |                |
| Vibration damper type             |   | Rubber mounted inertia |                |                 |                |
| End thrust taken by bearing (No.) |   | 5                      |                |                 |                |
| Crankshaft end play               |   | .002 - .006            |                | .006 - .010     |                |
| Material & type                   |   | Premium aluminum       |                |                 |                |
| Clearance                         |   | (a)                    |                | (b)             |                |
| Main bearing                      | Journal dia. and bearing overall length | No. 1                  | 2.4502 x .752  | 2.7509 x .992   | 2.7509 x .992  |
|                                   |   | No. 2                  | 2.4502 x .752  | 2.7505 x .492   | 2.7505 x .992  |
|                                   |   | No. 3                  | 2.4502 x .752  | 2.7505 x .992   | 2.7505 x .992  |
|                                   |   | No. 4                  | 2.4502 x .752  | 2.7505 x .992   | 2.7505 x .992  |
|                                   |   | No. 5                  | 2.4508 x 1.177 | 2.7505 x 1.255  | 2.7505 x 1.255 |
|                                   | No. 6                                   | None                   |                |                 |                |
|                                   | No. 7                                   | None                   |                |                 |                |
| Dir. & amt. cyl. offset           |   | None                   |                |                 |                |
| No. bolts/main brg. cap           |   | 10 & 5                 |                | 10 & 5   20 & 5 |                |
| Crankpin journal diameter         |   | 2.099 - 2.100          |                | 2.199 - 2.200   |                |

### ENGINE - CAMSHAFT

|                                      |                                    |                               |      |    |  |
|--------------------------------------|------------------------------------|-------------------------------|------|----|--|
| Location                             |                                    | In block above crankshaft     |      |    |  |
| Material                             |                                    | Cast alloy iron               |      |    |  |
| Bearings                             | Material                           | Steel backed babbitt          |      |    |  |
|                                      | Number                             | 5                             |      |    |  |
| Gear or chain                        |                                    | Chain                         |      |    |  |
| Crankshaft gear or sprocket material |                                    | Steel sprocket                |      |    |  |
| Type of Drive                        | Camshaft gear or sprocket material | Nylon teeth with aluminum hub |      |    |  |
|                                      | Timing chain                       | No. of links                  | 46   | 50 |  |
|                                      | Width                              | .740                          | .740 |    |  |
|                                      | Pitch                              | .500                          | .500 |    |  |

- (a) No. 1 - .0008 - .0020
- No. 2, 3 & 4 - .0011 - .0023
- No. 5 - .0017 - .0033
- (b) No. 1 - .0007 - .0019
- No. 2, 3 & 4 - .0013 - .0025
- No. 5 - .0019 - .0035

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

| MODEL   |                              | V8 - 350<br>245 HP     | V8 - 400<br>270 HP                    | V8 - 400<br>300 HP           | V8 - 454<br>365 HP    | V8 - 454<br>425 HP |
|---|------------------------------|------------------------|---------------------------------------|------------------------------|-----------------------|--------------------|
| <b>ENGINE - VALVE SYSTEM</b>                      |                              |                        |                                       |                              |                       |                    |
| Hydraulic lifters (Std., opt., NA)                |                              | Standard               |                                       |                              |                       | NA                 |
| Valve rotator, type (intake, exhaust)             |                              | None                   |                                       |                              |                       |                    |
| Rocker ratio                                      |                              | 1.50:1                 |                                       | 1.70:1                       |                       |                    |
| Operating tappet clearance (indicate hot or cold) | Intake                       | Zero                   |                                       |                              | .024                  |                    |
|   | Exhaust                      | Zero                   |                                       |                              | .028                  |                    |
| Timing (based on top of ramp points)              | Intake                       | Opens (°BTC)           | 28°                                   | 28°                          | 56°                   | 44°                |
|   |                              | Closes (°ABC)          | 72°                                   | 78°                          | 114°                  | 92°                |
|   |                              | Duration - deg.        | 280°                                  | 286°                         | 350°                  | 316°               |
|   | Exhaust                      | Opens (°BBC)           | 78°                                   | 75°                          | 110°                  | 86°                |
|   |                              | Closes (°ATC)          | 30°                                   | 31°                          | 62°                   | 36°                |
|   |                              | Duration - deg.        | 288°                                  | 286°                         | 352°                  | 302°               |
| Valve opening overlap                             |                              | 58°                    | 59°                                   | 118°                         | 80°                   |                    |
| Material  |                              | Alloy steel            |                                       | Alloy steel, aluminized face |                       |                    |
| Overall length                                    |                              | 4.870 - 4.889          |                                       | 5.215 - 5.235                |                       | 5.204 - 5.224      |
| Actual overall head dia.                          |                              | 1.935 - 1.945          |                                       | 2.060 - 2.070                |                       | 2.185 - 2.195      |
| Angle of seat & face                              |                              | 46° (seat), 45° (face) |                                       |                              |                       |                    |
| Seat insert material                              |                              | None                   |                                       |                              |                       |                    |
| Stem diameter                                     |                              | .3410 - .3417          |                                       | .3715 - .3722                |                       |                    |
| Stem to guide clearance                           |                              | .0010 - .0027          |                                       |                              |                       |                    |
| Intake  | Lift (zero lash)             |                        | .3900                                 |                              | .3983   .4614   .5197 |                    |
|   | Outer spring press. & length | Valve closed (lb. in.) | 76-84 @ 1.70                          |                              | 69-81 @ 1.88          |                    |
|   |                              | Valve open (lb. in.)   | 194-206 @ 1.25                        |                              | 228-252 @ 1.38        |                    |
|   | Inner spring press. & length | Valve closed (lb. in.) | Spring damper                         |                              | 26-34 @ 1.78          |                    |
|   |                              | Valve open (lb. in.)   | Spring damper                         |                              | 81-99 @ 1.28          |                    |
|   | Material                     |                        | High alloy steel, aluminized face (a) |                              |                       |                    |
| Overall length                                    |                              | 4.913 - 4.933          |                                       | 5.345 - 5.365                |                       | 1.875 - 1.885      |
| Actual overall head dia.                          |                              | 1.495 - 1.505          |                                       | 1.715 - 1.725                |                       | 1.875 - 1.885      |
| Angle of seat & face                              |                              | 46° (seat), 45° (face) |                                       |                              |                       |                    |
| Seat insert material                              |                              | None                   |                                       |                              |                       |                    |
| Stem diameter                                     |                              | .3410 - .3417          |                                       | .3713 - .3720                |                       |                    |
| Stem to guide clearance                           |                              | .0010 - .0027          |                                       |                              |                       |                    |
| Exhaust   | Lift (zero lash)             |                        | .4100                                 |                              | .4300   .4800   .5197 |                    |
|   | Outer spring press. & length | Valve closed (lb. in.) | 76-84 @ 1.70                          |                              | 69-81 @ 1.88          |                    |
|   |                              | Valve open (lb. in.)   | 194-206 @ 1.25                        |                              | 228-252 @ 1.38        |                    |
|   | Inner spring press. & length | Valve closed (lb. in.) | Spring damper                         |                              | 26-34 @ 1.78          |                    |
|   |                              | Valve open (lb. in.)   | Spring damper                         |                              | 81-99 @ 1.28          |                    |

(a) Head also aluminized on V8-402 & 454

## AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (a) \_\_\_\_\_

|       |          |          |                         |
|-------|----------|----------|-------------------------|
|       | V8 - 350 | V8 - 400 | V8 - 454                |
| MODEL | 245 HP   | 270 HP   | 300 HP. 365 HP   425 HP |

## ENGINE - LUBRICATION SYSTEM

|   |                      |   |
|---|----------------------|---|
| Type of lubrication (splash, pressure, nozzle)              | Main bearings        | Pressure  |
|   | Connecting rods      | Pressure  |
|   | Piston pins          | Splash  |
|   | Camshaft bearings    | Pressure  |
|   | Tappets              | Pressure  |
|   | Timing gear or chain | Centrifugally oiled from camshaft-bearing   |
|   | Cylinder walls       | Pressure jet cross sprayed  |
| Oil pump type   |                      | Gear  |
| Normal oil pressure (lb. - engine rpm)                      |                      | 40 PSI @ 2000 RPM   |
| Oil press. sending unit (elect. or mech.)                   |                      | Electric  |
| Type oil intake (floating, stationary)                      |                      | Stationary  |
| Oil filter system (full flow, part., other)                 |                      | Full flow   |
| Filter replacement (element, complete)                      |                      | Complete  |
| Capacity of c/case, less filter-refill (qt.)                |                      | 4   |
| Oil grade recommended (SAE viscosity and temperature range) |                      | 20° and above - 20W, 10W-30, 10W-40, 20W-40<br>0° to 60° F - 10W, 5W-30, 10W-40<br>Below 20° F - 5W, 5W-20, 5W-30 |
| Engine Service Reamt. (MM, MS, etc.)                        |                      | MS  |

## ENGINE - EXHAUST SYSTEM

|  |                        |                          |
|--|------------------------|--------------------------|
| Type (single, single with cross-over, dual, other)                   | Single with cross over | Dual with resonators     |
| Muffler No. & type (reverse flow, straight thru, separate resonator) | One;<br>reverse flow   | 2 mufflers, 2 resonators |
| Exhaust pipe dia. (O.D., wall thick.)                                | Branch                 | 2.00 x .082 laminated    |
|  | Main                   | 2.50 x .082 laminated    |
| Tail pipe dia. (O.D. & wall thickness)                               | 1.88 x .069            | 2.00 x .067              |

(a) Pipe - muffler to resonator

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*) 12/70

|       |          |          |                          |
|-------|----------|----------|--------------------------|
|       | V8 - 350 | V8 - 400 | V8 - 454                 |
| MODEL | 245 HP   | 270 HP   | 300 HP   365 HP   425 HP |

| ENGINE - FUEL SYSTEM                                      |   | (See supplemental page for Details of Fuel Injection, Supercharger, etc. if used) |   |     |     |  |
|---|---|---|---|-----|-----|--|
| Induction type: Carburetor, fuel injection, supercharger. |   | Carburetor  |   |     |     |  |
| Fuel Tank   | Refill capacity (U.S. gals.)                    | 19 approximately  |   |     |     |  |
| Fuel Tank   | Filler location                                 | Behind hinged rear license plate  |   |     |     |  |
| Fuel Pump   | Type (elec. or mech.)                           | Mechanical  |   |     |     |  |
| Fuel Pump   | Locations                                       | Lower right front of engine   |   |     |     |  |
| Fuel Pump   | Pressure range                                  | 7.50 - 9.00 PSI*  |   |     |     |  |
| Vacuum booster (std., optional, none)                     |   | None  |   |     |     |  |
| Fuel Filter   | Type  | Fine mesh plastic strainer in gasoline tank and paper filter in carburetor inlet  |   |     |     |  |
| Fuel Filter   | Locations                                       | and paper filter in carburetor inlet  |   |     |     |  |
| Carburetor  | Choke type                                      | Automatic   |   |     |     |  |
|   | Intake manifold heat control (exhaust or water) | Exhaust   |   |     |     |  |
|   | Air cleaner type                                | Standard  | Thermostatically controlled; Oil wetted paper element |     |     |  |
|   |   | Optional  | None  |     |     |  |
|   | Idle speed (spec. neutral or drive)             | Manual  | 600   | -   | 700 |  |
| Automatic <input checked="" type="radio"/>                |   | 550   | 600   | 700 |     |  |
| Idle A/F mix.   |   | Not specified   |   |     |     |  |

### CARBURETOR SUPPLEMENTARY INFORMATION

| Model Usage | Engine Displ. | Transmission | Carburetors |         | No. Used and Type | Barrel Size |
|-------------|---------------|--------------|-------------|---------|-------------------|-------------|
|             |               |              | Make        | Model   |                   |             |
|             | 350           | Manual       | Rochester   | 7041113 | One;              | 1.69        |
|             | 240 hp        | Automatic    |             | 7041114 |                   |             |
|             | 350           | Manual       | Rochester   | 7041203 | One;              | 1.38 Prim.  |
|             | 270 hp        | Automatic    |             | 7041202 |                   |             |
|             | 402           | Manual       | Rochester   | 7041201 | One;              | 1.38 Prim.  |
|             | 300 hp        | Automatic    |             | 7041200 |                   |             |
|             | 454           | Automatic    | Rochester   | 7041200 | One;              | 1.38 Prim.  |
|             | 365 hp        |              |             |         | 4-bbl             | 2.25 Sec.   |
|             | 454           | Manual       | Holley      | 3986195 | One;              | 1.69        |
|             | 425 hp        | Automatic    |             | 3986196 |                   |             |

\* Shut off pressure - 1800 RPM at pump outlet

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED<sup>(a)</sup> 12/70

|       |          |          |          |
|-------|----------|----------|----------|
|       | V8 - 350 | V8 - 400 | V8 - 454 |
| MODEL | 245 HP   | 270 HP   | 300 HP   |
|       |          |          | 365 HP   |
|       |          |          | 425 HP   |

## ENGINE - COOLING SYSTEM

|   |                              |  |             |             |  |
|---|------------------------------|--|-------------|-------------|--|
| Type system (pressure, pressure vented, atmospheric, other) |                              | Pressure                               |             |             |  |
| Radiator cap relief valve pressure                          |                              | 15 ± 1 PSI                             |             |             |  |
| Circulation thermostat                                      | Type (choke, bypass)         | Choke                                  |             |             |  |
|   | Starts to open at (°F)       | 192° - 198°                            |             | 177° - 183° |  |
| Water pump  | Type (centrifugal, other)    | Centrifugal                            |             |             |  |
|   | GPM 1000 pump rpm            | 25 @ 2000                              |             | 27 @ 2000   |  |
|   | Number of pumps              | One                                    |             |             |  |
|   | Drive (V-belt, other)        | V-belt                                 |             |             |  |
| Bearing type  |                              | Permanently lubricated double row ball |             |             |  |
| By-pass recirculation type (inter., ext.)                   |                              | Internal                               | External    |             |  |
| Radiator core type (cellular, tube and fin, other)          |                              | Tube and center                        |             |             |  |
| Cooling system capacity                                     | With heater (qt.)            | 16                                     | 23          | 22          |  |
|   | Without heater (qt.)         | 15                                     | 22          | 21          |  |
|   | Opt. equipment-specify (qt.) | 16                                     | 23          | 23          |  |
| Water jackets full length of cyl. (yes, no)                 |                              | Yes                                    |             |             |  |
| Water all around cylinder (yes, no)                         |                              | Yes                                    |             |             |  |
| Radiator hose   | Lower                        | Number and type (molded, straight)     | One, molded |             |  |
|   |                              | Inside diameter                        | 1.75        | 1.88        |  |
|   | Upper                        | Number and type (molded, straight)     | One, molded |             |  |
|   |                              | Inside diameter                        | 1.50        |             |  |
|   | By-pass                      | Number and type (molded, straight)     | None        | One, molded |  |
|   |                              | Inside diameter                        | None        | .725 - .765 |  |
| Fan   | Number of blades & spacing   | 4-blade staggered                      |             | (a)         |  |
|   | Diameter                     | 17.62                                  | 18.00       |             |  |
|   | Ratio fan to crankshaft rev. | .949:1                                 |             |             |  |
|   | Fan cutout type              | None                                   |             |             |  |
| Bearing type  |                              | Double row ball                        |             | (a)         |  |
| * Drive belts (indicate belt used by letter)                | Fan                          | A                                      | D           | G           |  |
|   | Generator or alternator      | A                                      | D           | G           |  |
|   | Water Pump                   | A                                      | D           | G           |  |
|   | Power Steering               | B                                      | E           | H           |  |
|   | Air Conditioning             | C                                      | F           | -           |  |
| Air Injection   |                              | -                                      | -           | G           |  |
| ● (a) 5-blade-thermo-modulated                              |                              |  |             |             |  |

| * Drive Belt Dimensions | A            | B     | C     | D     | E     | F     | G     | H     | I | J | K |
|-------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|---|---|---|
| Angle of V              | ← 38 - 42° → |       |       |       |       |       |       |       |   |   |   |
| Nominal length (SAE)    | 44.25        | 36.00 | 54.53 | 45.75 | 41.00 | 58.00 | 47.50 | 40.50 |   |   |   |
| Width                   | ← .380 →     |       |       |       |       |       |       |       |   |   |   |

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

MODEL L6-250, V8 - 350  
V8 - 400 & V8 - 454 (365 HP) V8 - 454 425 HP

**VEHICLE EMISSION CONTROL**

| Type (Air injection, engine modifications, other)    |   | Engine Modifications                               | Air injection                       |                     |
|--|---|--|-------------------------------------|---------------------|
| Exhaust Emission Control                             | Air Injection Pump                                      | Type   | Semi-articulated vane type          |                     |
|  |   | Displacement                                       | 19.3 cubic inch                     |                     |
|  |   | Drive ratio  | 1.15:1                              |                     |
|  |   | Drive type   | Crankshaft pulley                   |                     |
|  |   | Relief valve (type)                                | Diverter valve                      |                     |
|  | Filter (describe)                                       |  | Centrifugal air cleaner             |                     |
|  | Air Injection System                                    | Air distribution (head, manifold, etc.)            |                                     | Manifold            |
|  |   | Point of entry                                     |                                     | Exhaust ports       |
|  |   | Injection tube i.d.                                |                                     | .2565               |
|  |   | Check valve type                                   |                                     | Pressure plate type |
|  | Backfire protection (type)                              |  | Diverter valve                      |                     |
| Type (ventilates to atmos., induction system, other) |   | Standard<br>Optional                               | Induction system<br>--              |                     |
| Crankcase Emission Control                           | Control Unit  | Make and model                                     | AC Spark Plug                       |                     |
|  |   | Location   | Rocker cover - left front           |                     |
|  |   | Energy source (manifold vacuum, carburetor, other) | Manifold vacuum                     |                     |
|  | Control method (variable orifice, fixed orifice, other) |  | Variable orifice                    |                     |
|  | Complete system   | Discharges (to intake manifold, other)             |                                     | Intake manifold     |
| Air inlet (breather cap, other)                      |   |  | Carburetor air cleaner              |                     |
| Flame arrestor (screen, other)                       |   |  | Screen                              |                     |
| Evaporative Emission Control                         | Fuel Tank   | Refill Capacity (U.S. gallons)                     | 19 approximately                    |                     |
|  |   | Thermal expansion volume (cu. ft.)                 | .36; .268 Station Wagons            |                     |
|  |   | Pressure relief location (lbs.)                    | .0904 PSI to 1.26 PSI               |                     |
|  |   | Vacuum relief location (lbs.)                      | .18 PSI to .51 PSI                  |                     |
|  |   | Vapor-liquid separator type                        | Stand Pipe                          |                     |
|  |   | Vapor vented to (crankcase, canister, other)       | Canister                            |                     |
|  | Carburetor  | Vapor vented to (crankcase canister, other)        |                                     | --                  |
|  |   |  |                                     |                     |
|  | Vapor Storage   | Storage provision (crankcase, canister, other)     |                                     | Canister            |
|  |   | Volume (cu. ft.) or capacity (grams)               |                                     | 45 approximately    |
| Control valve type                                   |   |  | Single vacuum operating stage valve |                     |

NOT APPLICABLE

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED <sup>(\*)</sup>12/70

|       |          |          |                    |        |
|-------|----------|----------|--------------------|--------|
| MODEL | V8 - 350 | V8 - 400 | V8 - 454<br>365 HP | 425 HP |
|-------|----------|----------|--------------------|--------|

## ELECTRICAL — SUPPLY SYSTEM

|                               |                                 |                                  |                       |  |
|-------------------------------|---------------------------------|----------------------------------|-----------------------|--|
| Battery                       | Make and Model                  | 1980145                          | 1980149               |  |
|                               | Voltage Rtg. & Total Plates     | 12 volts 66                      | 12 volts 90           |  |
|                               | SAE Designation & Amp. Hr. Rtg. | 61 amps @ 20 hr. rate            | 80 amps @ 20 hr. rate |  |
|                               | Location                        | Right side of engine compartment |                       |  |
|                               | Terminal grounded               | Negative                         |                       |  |
| Generator<br>or<br>Alternator | Make                            | Delco - Remy                     |                       |  |
|                               | Model                           | 1100834                          | 1100837               |  |
|                               | Type and rating                 | Diode rectified - 37 amps        |                       |  |
|                               | Output at engine idle (neutral) | 13 amps                          |                       |  |
|                               | Ratio—Gen. to Cr.'s rev. ●      | 2.53:1                           | 2.15:1                |  |
| Regulator                     | Make                            | Delco - Remy                     |                       |  |
|                               | Model                           | 1119515                          |                       |  |
|                               | Type                            | Vibrator                         |                       |  |
|                               | Cutout<br>relay                 | Closing voltage<br>generator rpm | None                  |  |
|                               |                                 | Reverse current<br>to open       | None                  |  |
|                               | Regu-<br>lated                  | Voltage                          | 13.8 - 14.8 @ 85° F   |  |
|                               |                                 | Current                          | - - -                 |  |
|                               | Voltage<br>rest<br>conditions   | Temperature                      | Operating             |  |
|                               |                                 | Load                             | 3-8 amperes           |  |
|                               |                                 | Other                            | None                  |  |

## ELECTRICAL — STARTING SYSTEM

|                   |                              |  |               |               |     |
|-------------------|------------------------------|--|---------------|---------------|-----|
| Starting<br>Motor | Make                         | Delco - Remy   |               |               |     |
|                   | Model                        | 1108418  | 1108430*      |               |     |
|                   | Rotation (drive<br>end view) | Clockwise  |               |               |     |
| Motor<br>control  | Switch (solenoid, manual)    | Solenoid   |               |               |     |
|                   | Starting<br>procedure        | Manual- Place gearshift lever in neutral and depress clutch<br>Automatic- Place gearshift lever in N or P position<br>Initial Start- Press accelerator to floor & release. Turn<br>ignition to START release as soon as engine starts. |               |               |     |
| Motor<br>Drive    | Engagement type              | Positive shift solenoid  |               |               |     |
|                   | Pinion meshes (front, rear)  | Rear   |               |               |     |
|                   | Number<br>of teeth           | Pinion   | 9             | 9             |     |
|                   |                              | Flywheel   | Manual        | 153           | 168 |
|                   | Auto.                        |  | 153           | 168           |     |
|                   | Flywheel tooth<br>face width | Manual   | .4010 - .4130 | .4100 - .4220 |     |
| Auto.             |                              | .4010 - .4130  | .4100 - .4220 |               |     |

\* Also V8 - 350 (270 HP)



## AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*) 12/70

|       |          |        |          |
|-------|----------|--------|----------|
|       | V8 - 350 | V8-400 | V8 - 454 |
| MODEL | 245 HP   | 270 HP | 300 HP   |
|       |          |        | 365 HP   |
|       |          |        | 425 HP   |

## ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR

|                     |           |              |              |              |              |               |
|---------------------|-----------|--------------|--------------|--------------|--------------|---------------|
| Breaker gap (in.)   | .019      |              |              |              |              |               |
| Cam angle (deg.)    | 29-31     |              |              | 28-30        |              |               |
| Breaker arm tension | 19-23     |              |              | 28-32        |              |               |
| Distributor         | Manual    | 1112042      | 1112044      | 1112057      | - -          | 1112075       |
|                     | Automatic | 1112005      | 1112045      | 1112057      | 1112052      | 1112054       |
| Timing              | Manual ●  | 2° BTC @ 600 | 4° BTC @ 600 | 8° BTC @ 600 | - -          | 8° BTC @ 700  |
|                     | Automatic | 6° BTC @ 550 | 8° BTC @ 550 | 8° BTC @ 600 | 8° BTC @ 600 | 12° BTC @ 700 |

| Distributor Model | CENTRIFUGAL ADVANCE<br>Crankshaft Degrees at Engine RPM |              |           | VACUUM ADVANCE<br>Crankshaft Deg. In. of Mercury |           |
|-------------------|---|--------------|-----------|--|-----------|
|                   | Start   | Intermediate | Max.      | Start  | Max.      |
| 1112042           | 1120  | 15 @ 2200    | 28 @ 4300 | 8.00   | 20 @ 17   |
| 1112005           | 1000  | 14 @ 2200    | 24 @ 4300 | 7.00   | 24 @ 15   |
| 1112057           | 1260  | 16 @ 2400    | 30 @ 4400 | 8.00   | 20 @ 17   |
| 1112052           | 1143  | 14 @ 2000    | 22 @ 3900 | 8.00   | 20 @ 17   |
| 1112075           | 1200  | 9.8 @ 1540   | 32 @ 5000 | 7.00   | 12 @ 12   |
| 1112054           | 1310  | 21 @ 2350    | 28 @ 5000 | 7.00   | 12 @ 12   |
| 1112044           | 1160  | 15 @ 2400    | 22 @ 4200 | 8.00   | 15 @ 15.5 |
| 1112045           | 1335  | 11 @ 2400    | 18 @ 4200 | 8.00   | 15 @ 15.5 |

# AMA Specifications Form—Passenger Car

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|       |          |          |          |                 |
|-------|----------|----------|----------|-----------------|
|       | V8 - 350 | V8 - 400 | V8 - 454 |                 |
| MODEL | 245 HP   | 270 HP   | 300 HP   | 365 HP   425 HP |

### ELECTRICAL – IGNITION SYSTEM

|            |                                   |                |  |           |           |           |           |
|------------|-----------------------------------|----------------|--|-----------|-----------|-----------|-----------|
| Type       | Conventional – Std., Opt., N.A.   |                | Standard   |           |           |           |           |
|            | Transistorized – Std., Opt., N.A. |                | Not available  |           |           |           |           |
|            | Other (specify)                   |                | None   |           |           |           |           |
| Coil       | Make                              |                | Delco-Remy   |           |           |           |           |
|            | Model                             |                | 1115293  |           |           |           |           |
|            | Amps                              | Engine stopped | 4.0  |           |           |           |           |
|            |                                   | Engine idling  | 1.8  |           |           |           |           |
| Spark Plug | Make                              |                | AC Spark Plug  |           |           |           |           |
|            | Model                             |                | ACR45T S   | AC R44T S | AC R44T S | AC R43T S | AC R44T S |
|            | Thread (mm)                       |                | 14   |           |           |           |           |
|            | Tightening torque (lb. ft.)       |                | 25   |           |           |           |           |
|            | Gap                               |                | .033-.038  |           |           |           |           |
| Cable      | Conductor type                    |                | Linen core impregnated with electrical conducting material |           |           |           |           |
|            | Insulation type                   |                | Rubber with neoprene jacket                                |           |           |           |           |
|            | Spark plug protector              |                | Neoprene   |           |           |           |           |

### ELECTRICAL – SUPPRESSION

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

### ELECTRICAL – INSTRUMENTS AND EQUIPMENT

|                               |                                 |                          |
|-------------------------------|---------------------------------|--------------------------|
| Speed-ometer                  | Type                            | Dial with pointer        |
|                               | Trip odometer (std. opt., N.A.) | No                       |
| Charge indicator – type       |                                 | Tell-tale                |
| Temperature indicator – type  |                                 | Tell-tale                |
| Oil pressure indicator – type |                                 | Tell-tale                |
| Fuel indicator – type         |                                 | Electric gauge           |
| Wind-shield wiper             | Type – Standard                 | Electric, two-speed      |
|                               | Type – Optional                 | None                     |
| Wind-shield washer            | Type – Standard                 | Push-button              |
|                               | Type – Optional                 | None                     |
| Horn                          | Type                            | Vibrator                 |
|                               | Number used                     | One                      |
|                               | Amp draw (each)                 | 4.5 - 6.0 amp @ 12 Volts |
| Other                         |                                 |                          |

# AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*)

|       |          |        |          |          |
|-------|----------|--------|----------|----------|
|       | V8 - 350 |        | V8 - 400 | V8 - 454 |
| MODEL | 245 HP   | 270 HP | 300 HP   | 425 HP   |

### DRIVE UNITS - CLUTCH (Manual Transmission)

|                             |                                     |                                   |              |
|-----------------------------|-------------------------------------|-----------------------------------|--------------|
| Make & type                 | Chevrolet, single dry disc          |                                   |              |
| Type pressure plate springs | Diaphragm, bent finger design       |                                   |              |
| Total spring load (lb.)     | 2100-2300                           | 2450-2750                         | 2600-2800    |
| No. of clutch driven discs  | One                                 |                                   |              |
| Material                    | Woven type asbestos                 |                                   |              |
| Clutch facing               | Outside & inside dia.               | 10.34 x 6.50                      | 11.00 x 6.50 |
|                             | Total eff. area (sq.in.)            | 101.54                            | 123.70       |
|                             | Thickness                           | .135                              | .140         |
|                             | Engagement cushioning method        | Flat spring steel between facings |              |
| Release bearing             | Type & method of lubrication        | Single row ball packed and sealed |              |
| Torsional damping           | Methods: springs, friction material | Coil springs                      |              |

### DRIVE UNITS - TRANSMISSIONS

|                                  |  |
|----------------------------------|--|
| Manual 3-speed (std., opt. N.A.) | Standard V8-350 (240 HP) Not available other engines |
| Manual 4-speed (std., opt. N.A.) | Standard V8-350 (270 HP), V8-400 & V8-454 (1S6)      |
| Automatic (std., opt. N.A.)      | Optional   |

### DRIVE UNITS - MANUAL TRANS.

|                                    |  |                                     |        |      |
|------------------------------------|--|-------------------------------------|--------|------|
| Number of forward speeds           | 3  | 4                                   | 4      |      |
| Transmission ratios                | In first   | 2.54                                | 2.52   | 2.20 |
|                                    | In second  | 1.50                                | 1.88   | 1.64 |
|                                    | In third   | 1.00                                | 1.46   | 1.27 |
|                                    | In fourth  | -                                   | 1.00   | 1.00 |
|                                    | In reverse   | 2.63                                | 2.59   | 2.26 |
| Synchronous meshing, specify gears | All forward speeds                                 |                                     |        |      |
| Shift lever location               | Steering column - 3 spd.<br>Floor mounted - 4 spd. |                                     |        |      |
| Lubricant                          | Capacity (pt.)                                     | 3                                   |        |      |
|                                    | Type recommended                                   | Meeting Military Specs. MIL-L-2105B |        |      |
|                                    | SAE viscosity number                               | Summer                              | SAE 80 |      |
|                                    |  | Winter                              | SAE 80 |      |
| Extreme cold                       |  | SAE 80                              |        |      |

## AMA Specifications Form—Passenger Car

MAKE OF CAR MONTE CARLO MODEL YEAR 1971 DATE ISSUED 9/70 REVISED <sup>(\*)</sup>MODEL 2-Speed Automatic  
V8-350 245 HP | 3-Speed Automatic  
V8-350 270 HP | V8-400 & 454

## DRIVE UNITS – AUTOMATIC TRANSMISSION

|   |   |  |  |       |
|---|---|--|--|-------|
| Trade name  | Powerglide  |  | Turbo Hydra-Matic  |       |
| Type describe   | Torque converter with planetary gears                                       |  |  |       |
| Selector location   | Lever, steering column, floor mounted when used with console & bucket seats |  |  |       |
| List gear ratios Selector Pattern and indicate which are used in each selector position | P-Park<br>R-1.82<br>N-Neutral<br>D-1.82-1.00<br>L-1.82                      | P-Park<br>R-1.93<br>N-Neutral<br>D-2.52-1.52-1.00<br>L-2.52-1.52 | P-Park<br>R-2.08<br>N-Neutral<br>D-2.48-1.48-1.00<br>L-2.48-1.48 |       |
| Max. upshift speed—drive range  |   |  |  | **    |
| Max. kickdown speed—drive range   |   |  |  | **    |
| Torque converter  | Number of elements  | 3  |  |       |
|   | Max. ratio at stall   | 2.10   |  |       |
| Lubricant   | Type of cooling (air, liquid)   | Water  |  |       |
|   | Nominal diameter  | 11.75  | 11.75  | 12.20 |
| Special transmission features   | Capacity—refill (pt.)   | 6.5  | 5  | 8     |
|   | Type recommended  | A suffix A   |  |       |

## DRIVE UNITS – PROPELLER SHAFT

|  |                        |                      |
|--|------------------------|----------------------|
| Number used  | One                    |                      |
| Type (straight tube, tube-in-tube, internal-external damper, etc.) | Straight tube          |                      |
| Outer diam. x length* x wall thickness                             | Manual 3-speed trans.  | 3.25 x 56.34 x 0.065 |
|  | Manual 4-speed trans.  | Same as 3-speed      |
|  | Overdrive transmission | Not available        |
|  | Automatic transmission | Same as 3-speed      |

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

(Continued)

\*\* Upshift: V8-350 270 HP (1-2 51; 2-3 90) V8-400 (1-2 49; 2-3 87)  
V8-454 365 HP (1-2 44; 2-3 79) V8-454 425 HP (1-2 46; 2-3 88)

Kickdown: V8-350 270 HP (2-4 36; 3-2 90) V8-400 (2-1 42; 3-2 80)  
V8-454 365 HP (2-1 37; 3-2 72) V8-454 425 HP (2-1 31; 3-2 72)



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# AMA Specifications Form—Passenger Car

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MODEL \_\_\_\_\_

## DRIVE UNITS – WHEELS

|                          |                     |                              |  |
|--------------------------|---------------------|------------------------------|--|
| Type & material          |                     | Short spoke disc: steel      |  |
| Rim (size & flange type) | Std.                | 15 x 6; 15 x 7 on SS models  |  |
|                          | Opt.                | 15 x 7 on all exc. SS models |  |
| Attachment               | Type (bolt or stud) | Stud                         |  |
|                          | Circle diameter     | 4.75                         |  |
|                          | Number and size     | 5 hex nuts 7/16-20 UNF-2B    |  |

MODEL \_\_\_\_\_

## DRIVE UNITS – TIRES

|                     |                             |                                  |  |
|---------------------|-----------------------------|----------------------------------|--|
| Standard            | Size, ply rating, & ply     |                                  | G78-15B on base models<br>G70-15B on SS models |
|                     | Type (bias, radial, etc.)   |                                  | Fiberglass Bias Belted                         |
|                     | Full rated Inflation Press. | Front                            | Cold-24; Hot - 30                              |
|                     |                             | Rear                             | Cold-28; Hot - 34                              |
| Rev./Mile at 50 MPH |                             | 749 (G78 x 15B); 758 (G70 x 15B) |  |
| Optional            | Size, ply rating, & ply     |                                  | G70-15B on base models                         |

## BRAKES – PARKING

|                                 |  |   |
|---------------------------------|--|---|
| Type of control                 |  | Foot pedal apply; handle release                    |
| Location of control             |  | Lower edge of instrument panel, left of stg. column |
| Operates on                     |  | Rear service brakes                                 |
| If separate from service brakes | Type (internal or external)              | - - -   |
|                                 | Drum diameter                            | - - -   |
|                                 | Lining size (length x width x thickness) | - - -   |

## AMA Specifications Form—Passenger Car

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MODEL \_\_\_\_\_

## BRAKES - SERVICE

|  |   |                                     |                     |                    |
|--|---|-------------------------------------|---------------------|--------------------|
| Type (drum) or (disc & no. of pistons)       |   | Disc-front, Drum-rear (a)           |                     |                    |
| Self adjusting (std., opt., N.A.)            |   | Standard                            |                     |                    |
| Special Valving                              | Type (proportion, delay, metering, other) | Metering and proportioning          |                     |                    |
| Power brake make & type (remote, int., etc.) | Std. Opt.                                 | Standard; Delco-Moraine             |                     |                    |
| Effective area (sq. in.) *                   |   | 106.1                               |                     |                    |
| Gross lining area (sq. in.) **               |   | 118.1                               |                     |                    |
| Swept area (sq. in.) ***                     |   | 332.4                               |                     |                    |
| Front to Rear Effectiveness Relationship     |   |                                     |                     |                    |
| Drum   | Diameter (nominal)                        | Front                               | - -                 |                    |
|  |   | Rear                                | 9.5                 |                    |
|  | Type and material                         | Composite; cast iron rim, steel web |                     |                    |
| Disc   | Outer working diameter                    |                                     | 11.00               |                    |
|  | Inner working diameter                    |                                     | 7.18                |                    |
|  | Working width                             |                                     | 1.00                |                    |
|  | Material & type (vented/solid)            |                                     | Cast iron; vented   |                    |
| Wheel cylinder bore                          | Front                                     | 2.9375                              |                     |                    |
|  | Rear                                      | 0.875                               |                     |                    |
| Master Cylinder                              | Bore                                      | 1.125                               |                     |                    |
|  | Stroke                                    | 1.44                                |                     |                    |
| Pedal arc ratio                              |   | 3.53                                |                     |                    |
| Line pressure at 100 lb. pedal load          |   | 805                                 |                     |                    |
| Shoe Clearance                               | Front                                     | Self adjusting                      |                     |                    |
|  | Rear                                      | Self adjusting                      |                     |                    |
| Anti-skid device type (std., opt., N.A.)     |   | N. A.                               |                     |                    |
| Brake lining                                 | Banded or riveted                         |                                     | Riveted             |                    |
|  | Front Wheel                               | Material                            |                     | Molded asbestos    |
|  |   | Size (length x width x thickness)   | Prim. or out-board  | 5.96 x 2.21 x 0.41 |
|  |   |                                     | Second. or in-board | 5.96 x 2.21 x 0.41 |
|  |   | Segments per shoe                   |                     | One                |
|  | Rear Wheel                                | Material                            |                     | Molded asbestos    |
|  |   | Size (length x width x thickness)   | Prim. or out-board  | 9.01 x 2.0 x 0.17  |
|  |   |                                     | Second. or in-board | 9.75 x 2.0 x 0.17  |
| Segments per shoe                            |   | One                                 |                     |                    |

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

\*\*\* Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

(a) Disc - Single piston, floating caliper; Drum-single piston, duo servo

## AMA Specifications Form—Passenger Car

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## MODEL \_\_\_\_\_

## STEERING

|  |   |  |   |
|--|---|--|---|
| Manual (std., opt., NA)                        |   | Standard; energy absorbing steering column   |   |
| Power (std., opt., NA)                         |   | Optional   |   |
| Adjustable steering wheel (tilt, swing, other) | Type and description                      | Tilt; universal jointed steering shaft at base of steering wheel; 5 inch vertical travel |   |
|  | (std., opt., NA)                          | Optional   |   |
| Wheel diameter                                 | Manual                                    | 15.25 x 14.75 (Oval)   |   |
|  | Power                                     | Same   |   |
| Turning diameter (feet)                        | Outside front                             | Wall to wall (l. & r.)   | 45.5                                    |
|  |   | Curb to curb (l. & r.)   | 42.0                                    |
|  | Inside rear                               | Wall to wall (l. & r.)   |   |
|  |   | Curb to curb (l. & r.)   |   |
| Manual   | Gear                                      | Type   | Semi-reversible, recirculating ball nut |
|  |   | Make   | Saginaw Steering                        |
|  |   | Ratios   |   |
|  | Gear                                      | Overall  | 24.0:1                                  |
|  |   | Overall  | 27.9:1                                  |
| No. wheel turns (stop to stop)                 | 5.2                                       |  |   |
| Power  | Type (coaxial, linkage, etc.)             |  | Integral gear with vane type gear       |
|  | Make                                      |  | Saginaw Steering                        |
|  | Gear                                      | Type   | Same as manual                          |
|  |   | Ratios   | 16:1 - 13.0:1                           |
|  |   | Overall  | 18.5:1 - 12.4:1                         |
|  | Pump driven by                            |  | Crankshaft pulley                       |
| No. wheel turns (stop to stop)                 |   | 2.9  |   |
| Linkage  | Type                                      |  | Parallelogram                           |
|  | Location (front or rear of wheels, other) |  | Front of wheels                         |
|  | Drag link (trans. or longit.)             |  | None                                    |
|  | Tie rods (one or two)                     |  | Two                                     |
| Steering Axis                                  | Inclination at camber (deg.)              |  | $8-1/4^{\circ} \pm 1/2^{\circ}$         |
|  | Bearings (type)                           | Upper  | Ball stud with non-metallic surfaces    |
|  |   | Lower  | Ball stud with non-metallic surfaces    |
|  |   | Thrust   | None                                    |
| Whl. Align. (range at curb wt. & preferred)    | Caster (deg.)                             |  | $-1^{\circ} \pm 1$                      |
|  | Camber (deg.)                             |  | $+3/4 \pm 3/4^{\circ}$                  |
|  | Toe-in (outside track inches)             |  | 1/16 to 5/16                            |
| Steering spindle & joint type                  |   | Forging with pad for mounting brake cylinder, spherical                                  |   |
| Wheel Spindle                                  | Diameter                                  | Inner bearing  | 1.2493 - 1.2498                         |
|  |   | Outer bearing  | 0.7493 - 0.7498                         |
|  | Thread size                               |  | 3/4-20 NEF - 3 (modified)               |
|  | Bearing type                              |  | Taper roller                            |



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MODEL \_\_\_\_\_

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

|                                    |  |
|------------------------------------|--|
| Provision for car leveling         | Front stabilizer bar   |
| Provision for brake dip control    | Mounting angle of front upper control arms                           |
| Provision for acc. squat control   | Geometry of rear suspension  |
| Special provisions for car jacking | Position jack in bumper notch on lower face of front and rear bumper |
| Shock absorber front & rear        | Direct double acting hydraulic                                       |
| Type                               | Delco  |
| Make                               | 1.00   |
| Piston dia.                        |  |
| Other special features             |  |

## SUSPENSION – FRONT

|   |   |
|---|---|
| Type and description                                | Independent - SLA type with coil spring and concentric shock absorber and spherically jointed steering knuckle for each wheel |
| Spring  | Coil  |
| Type  | Steel alloy   |
| Material  |   |
| Size (coil design height & I.D., bar length x dia.) | 11.7 x 3.63; 133.40 x 0.595   |
| Spring rate (lb. per in.)                           | 250   |
| Rate at wheel (lb. per in.)                         | 95  |
| Stabilizer  | Link  |
| Type (link, linkless, frameless)                    | HR steel; 0.9375  |
| Material & bar diameter                             |   |

## SUSPENSION – REAR

|   |  |
|---|--|
| Type and description  | Linked; salisbury axle fixed by control arms |
| Drive and torque taken through                                      | Control arms                                 |
| Spring  | Coil   |
| Type  | Steel alloy                                  |
| Material  |  |
| Size (length x width, coil design height & I.D., bar length & dia.) | 14.7 x 5.50; 103.8 x 0.522                   |
| Spring rate (lb. per in.)   | 100  |
| Rate at wheel (lb. per in.)   | 100  |
| Mounting insulation type  | Natural rubber                               |
| If leaf   | No. of leaves                                |
|   | Shackle (comp. or tens.)                     |
| Stabilizer  | None   |
| Type (link, linkless, frameless)                                    |  |
| Material  |  |
| Track bar type  | None   |

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MODEL \_\_\_\_\_  
 FRAME \_\_\_\_\_

Type and description (Separate frame, unitized frame, partially - unitized frame)

All welded perimeter type with cross member, rear suspension cross member and rear cross member

### BODY - MISCELLANEOUS INFORMATION

|  |             |  |
|--|-------------|--|
| Drs. hinged (front, rr.)   | Front doors | Front  |
|  | Rear doors  | - -  |
| Type of finish (lacquer, enamel, other)                                    |             | Acrylic lacquer  |
| Hood counterbalanced (yes, no)   |             | Yes  |
| Hood release control (internal, external)                                  |             | External   |
| Vehicle Ident. No. location  |             | Top left hand of instrument and panel pad  |
| Engine No. location  |             | Top front of RH bank of cylinder case  |
| Theft protection - type  |             | Lock, mounted on steering column; locks steering wheel, transmission shift levers and ignition |
| Vent window control method (crank, friction pivot)                         | Front       | None   |
|  | Rear        | - - -  |
| Seat cushion type  | Front       | Formed wire and foam pad   |
|  | Rear        | Formed wire, foam pad and cotton   |
|  | 3rd seat    | None   |
| Seat back type   | Front       | Formed wire and foam pad   |
|  | Rear        | Formed wire, foam pad and cotton   |
|  | 3rd seat    | None   |
| Windshield glass type (i.e., single curved - laminated plate)              |             | Curved-laminated plate   |
| Side glass type (i.e., curved - tempered plate)                            |             | Curved-tempered plate  |
| Backlight glass type (i.e., compound curved - tempered plate, three piece) |             | Curved-tempered plate  |
| Windshield glass exposed surface area                                      |             | 1208.7   |
| Side glass exposed surface area  |             | 1225.4   |
| Backlight glass exposed surface area                                       |             | 1059.4   |
| Total glass exposed surface area   |             | 3493.5   |
|  |             |  |
|  |             |  |
|  |             |  |
|  |             |  |

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MODEL \_\_\_\_\_

## CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

|  |                       |  |
|--|-----------------------|--|
| Power windows                                      | Side windows          | Optional   |
|  | Vent windows          | NA   |
|  | Backlight or tailgate | -  |
| Power seats (specify type as well as availability) |                       | Optional 4-way bench seat, 4-way bucket seat                     |
| Reclining front seat back (R-L or both)            |                       | NA   |
| Front seat head restrainer (R-L or both)           |                       | Standard   |
| Radios (specify type as well as availability)      |                       | AM-FM Stereo-radio<br>Optional AM Push-button, AM-FM Push button |
| Car seat speaker                                   |                       | Optional   |
| Power antenna                                      |                       | NA   |
| Clock  |                       | Standard   |
| Air conditioner (specify type and availability)    |                       | Optional-Four season and G.M. Chevrolet                          |
| Speed warning device                               |                       | NA   |
| Speed control device                               |                       | Optional   |
| Ignition lock lamp                                 |                       | NA   |
| Dome lamp  |                       | Standard   |
| Glove compartment lamp                             |                       | Standard   |
| Luggage compartment lamp                           |                       | Optional   |
| Underhood lamp                                     |                       | Optional   |
| Courtesy lamp                                      |                       | Optional   |
| Auto. trans. quad. lamp                            |                       | Standard   |
| Cornering light lamp                               |                       | NA   |
| windshield antenna                                 |                       | Available with factory installed radio                           |
|  |                       |  |
|  |                       |  |
|  |                       |  |

## LAMP HEIGHT AND SPACING

|   |             |           |      |
|---|-------------|-----------|------|
| Height above ground to center of bulb or marker | Headlamp    | Highest ● | 27.5 |
|   |             | Lowest    |      |
|   | Tail        | Highest ● | 23.9 |
|   |             | Lowest    |      |
| Distance from C L of car to center of bulb      | Sidemarkers | Front     |      |
|   |             | Rear      |      |
|   | Headlamp    | Inside    |      |
|   |             | Outside * |      |
| Tail  | Inside      |           |      |
|   | Outside     |           |      |
| Directional                                     | Front       |           |      |
|   | Rear        |           |      |

\* If single headlamps are used enter here.

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## VEHICLE WEIGHTS

| Model                           | CURB WEIGHT * POUNDS |             |             | % PASS. WEIGHT DISTRIBUTION |             |               |             | LIQUID WEIGHT |           |
|---------------------------------|----------------------|-------------|-------------|-----------------------------|-------------|---------------|-------------|---------------|-----------|
|                                 | Front                | Rear        | Total       | Pass. In Front              |             | Pass. In Rear |             | Fuel          | Coolant   |
|                                 |                      |             |             | Front                       | Rear        | Front         | Rear        |               |           |
| <u>2-door Sport Coupe 13857</u> | <u>1974</u>          | <u>1612</u> | <u>3586</u> | <u>46.6</u>                 | <u>53.4</u> | <u>20.0</u>   | <u>80.0</u> | <u>115</u>    | <u>33</u> |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
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|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |
|                                 |                      |             |             |                             |             |               |             |               |           |

\* Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

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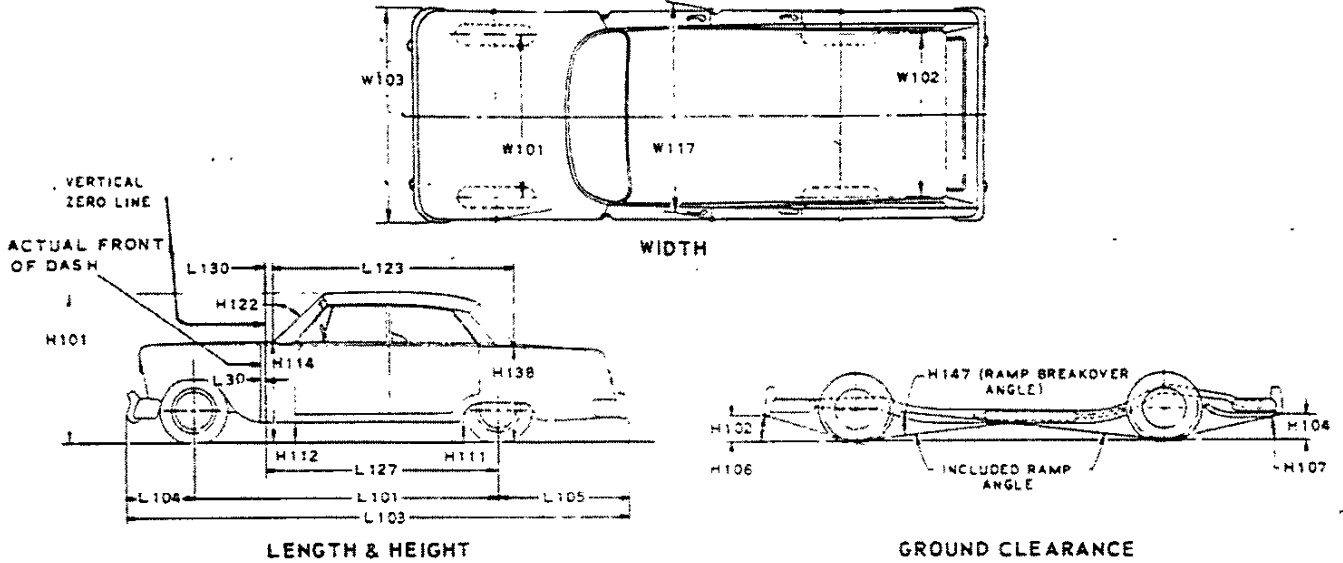
### OPTIONAL EQUIPMENT WEIGHTS

| Equipment Differential Weights | WEIGHT POUNDS |      |       | Remarks                     |
|--------------------------------|---------------|------|-------|-----------------------------|
|                                | Front         | Rear | Total |                             |
| Air conditioning               | + 98          | + 8  | +106  |                             |
| Power windows                  | + 11          | +12  | + 23  |                             |
| Power steering                 | + 29          | 1.0  | + 30  |                             |
| Radio push button              | + 6           | + 2  | + 8   |                             |
| Radio AM/FM                    | + 6           | + 3  | + 9   |                             |
| Tape player                    | + 17          | + 4  | + 21  |                             |
| Floor console                  | + 7           | + 3  | + 10  | with 4-speed transmission   |
|                                | + 12          | + 5  | + 17  | with automatic transmission |
| 350 Cu. In. I48 (270 HP)       | 4             | .0   | + 4   |                             |
| 402 Cu. In. LS3 (300 HP)       | +164          | +39  | +203  |                             |
|                                | +172          |      |       |                             |
| 454 Cu. In. LS5 (365 HP)*      | +172          | +14  | +186  |                             |
| 454 Cu. In. LS6 (425 HP)*      | +170          | +12  | +182  |                             |
| 4-speed transmission           | + 13          | + 5  | + 18  | used with I48               |
|                                | 3             | 1    | + 4   | used with LS3               |
| Powerglide transmission        | + 3           | - 1  | + 2   | used with base V8-350       |
| Turbo Hydra-Matic Trans.       | + 20          | + 4  | + 24  | used with I48               |
|                                | + 36          | + 9  | + 45  | used with LS3               |

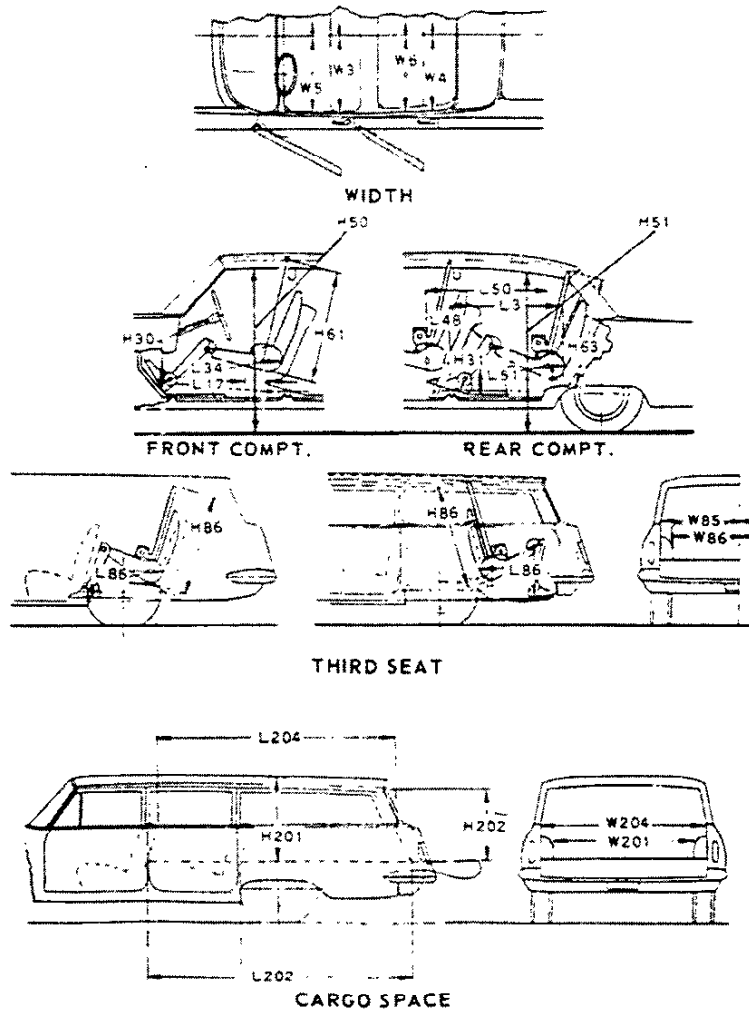
\* available as "SS" equipment only; engine weight only shown and does not include additional weight for body and chassis items.

## CAR AND BODY DIMENSIONS KEY SHEET

### EXTERIOR CAR AND BODY DIMENSIONS



### INTERIOR CAR AND BODY DIMENSIONS



## CAR AND BODY DIMENSIONS

## KEY SHEET

## DIMENSION DEFINITIONS

## EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with top to comb, at ground.  
 W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.  
 W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.  
 W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

## EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual front of dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.  
 L101 WHEEL BASE.  
 L103 OVERALL LENGTH. Include bumper guards if standard equipment.  
 L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.  
 L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.  
 L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.  
 L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.  
 L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

## EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.  
 H114 COWL POINT TO GROUND. Measured at vehicle centerline.  
 H138 DECK POINT TO GROUND. Measured at vehicle centerline.  
 H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding fanges. Measured to the outside of sheet metal at foremost part of rocker panel.  
 H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding fanges. Measured to the outside of sheet metal at front or rear wheel opening.  
 H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield complemented by an 18-inch chord.

## GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.  
 H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.  
 H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, grave deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.  
 H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, grave deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.  
 H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference, measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.  
 H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

## FRONT COMPARTMENT DIMENSIONS

- H 61 EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.  
 L 34 MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.  
 H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.  
 L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

## FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.  
 W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.  
 H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

## REAR COMPARTMENT DIMENSIONS

- L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.  
 H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.  
 L 51 MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.  
 H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.  
 L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.  
 L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.  
 W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.  
 W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.  
 H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.  
 H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

## STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.  
 W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.  
 L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.  
 H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

## STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.  
 L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.  
 W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouses at floor level.  
 W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.  
 H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.  
 H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-end liftgates fully open.  
 V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

1728

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# MONTE CARLO

## 1971 MODELS WITH STANDARD EQUIPMENT (116" Wheelbase)

| Model Number and Description                                     | Dealer Invoice Amount | Dealer Price | Factory D & H | List Price | Mfr's Suggested Retail Price* | Destination Group No. | Destination Charge | Total |
|--|-----------------------|--------------|---------------|------------|-------------------------------|-----------------------|--------------------|-------|
| <b>→ 8-Cylinder Model</b><br><b>245-hp Turbo-Fire 350 Engine</b> |                       |              |               |            |                               |                       |                    |       |
| 13857 Coupe—5-Passenger  |                       |              |               |            | \$3416.00                     | 10                    |                    |       |

\* Manufacturer's Suggested Retail Prices do not include state and local taxes, license fees, options or accessories.

### OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

| Description | Option Number | Dealer Invoice Amount | Dealer Price | Factory D & H | List Price | Mfr's Suggested Retail Delivered Price <sup>9</sup> |
|-------------|---------------|-----------------------|--------------|---------------|------------|---|
|-------------|---------------|-----------------------|--------------|---------------|------------|---|

#### MODEL OPTION

**Monte Carlo SS:** Available only when Turbo Hydra-matic transmission is ordered. Includes 355-hp Turbo-Jet 454 engine, black-painted rear panel with SS emblem, LH remote-control door mirror, special rear bumper with black insert, special front and rear ride stabilizers, Superior automatic level control, rear shock absorbers, dual exhausts, HD battery, G70-15/B bias belted ply white stripe tires, 15" x 7" rally wheels with special center caps and trim rings, 454 emblems on body sill moldings and function symbols on instrument panel knobs. Also includes HD radiator when air conditioning or performance ratio rear axle is ordered.

Z20

\$484.50

#### FEATURE GROUPS

(Any item contained in a feature group may be ordered separately)

##### APPEARANCE GUARD GROUP

###### INCLUDES:

|  |  |  |     |  |  |       |
|--|--|--|-----|--|--|-------|
| <b>(A) Guards, Bumper:</b>                                   |  |  |     |  |  |       |
| Front and Rear, Without Monte Carlo SS.                      |  |  | V30 |  |  | 31.60 |
| Front only, With Monte Carlo SS.                             |  |  | V30 |  |  | 15.80 |
| <b>(B) Guards, Door Edge</b>                                 |  |  | B93 |  |  | 6.35  |
| <b>(C) Mats, Color-Keyed Floor: 2 Front, 2 Rear</b>          |  |  | B37 |  |  | 12.65 |
| <b>(D) Mirror, Visor Vanity</b>                              |  |  | D34 |  |  | 3.20  |
| For Coupe model without Monte Carlo SS—Includes A, B, C & D. |  |  | ZP5 |  |  | 53.80 |
| For Coupe model with Monte Carlo SS—Includes A, B, C & D.    |  |  | ZP5 |  |  | 38.00 |

##### OPERATING CONVENIENCE GROUP

###### INCLUDES:

|  |  |  |     |  |  |       |
|--|--|--|-----|--|--|-------|
| <b>(A) Defroster, Rear Window: (Forced-Air)</b>  |  |  | CS0 |  |  | 31.60 |
| <b>(B) Mirror, L.H. Outside Remote-Control Rearview:</b> Not available when Monte Carlo SS is ordered. |  |  | D33 |  |  | 12.65 |
| For Coupe model without Monte Carlo SS—Includes A & B.   |  |  | ZQ2 |  |  | 44.25 |
| For Coupe model with Monte Carlo SS—Includes A.  |  |  | ZQ2 |  |  | 31.60 |

\* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.

<sup>9</sup> State and local taxes not included.

→ Indicates Change

May 1, 1971

CHEVROLET MOTOR VEHICLE PRICE SCHEDULE

Section III—Page 11

# MONTE CARLO

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

| Description   | Option Number | Dealer Invoice Amount* | Dealer Price | Factory D & H | List Price | Mfr's Suggested Retail Delivered Price |
|---|---------------|------------------------|--------------|---------------|------------|--|
| <b>POWER TEAMS</b>  |               |                        |              |               |            |  |
| <i>(See Power Teams Chart for availability and complete engine specifications)</i>              |               |                        |              |               |            |  |
| <b>Engines:</b> (Also see Monte Carlo SS)   |               |                        |              |               |            |  |
| 270-hp Turbo-Fire 350   | L48           |                        |              |               |            | \$ 47.40                               |
| 300-hp Turbo-Jet 400  | LS3           |                        |              |               |            | 146.40                                 |
| <b>Transmissions:</b>   |               |                        |              |               |            |  |
| Powerglide. Available with standard engine only   | M35           |                        |              |               |            | 150.10                                 |
| Turbo Hydra-matic   |               |                        |              |               |            |  |
| With standard or 270-hp engine  | M40           |                        |              |               |            | 216.50                                 |
| With 300-hp or 365-hp Monte Carlo SS engine   | M40           |                        |              |               |            | 237.60                                 |
| 4-Speed Wide-Range. Available only when 270-hp or 300-hp engine is ordered.                     | M20           |                        |              |               |            | 195.40                                 |
| <b>Axle, Positraction Rear</b>  | G80           |                        |              |               |            | 46.35                                  |
| <b>Axle Ratio:</b>  |               |                        |              |               |            |  |
| Trailering. Available only when standard engine and Turbo Hydra-matic transmission are ordered. | YD1           |                        |              |               |            | 12.65                                  |

### POWER ASSISTS

|  |     |  |  |  |  |        |
|--|-----|--|--|--|--|--------|
| <b>Door Lock System, Power: Electric</b>     | AU3 |  |  |  |  | 46.35  |
| <b>Seats, Power: Electric, 4-way control</b> |     |  |  |  |  |        |
| With bench seat                              | A41 |  |  |  |  | 79.00  |
| With bucket seats, Driver's seat only        | A46 |  |  |  |  | 79.00  |
| <b>Trunk Opener, Power: Electric</b>         | A90 |  |  |  |  | 14.75  |
| <b>Windows, Power: Electric</b>              | A31 |  |  |  |  | 127.45 |

### OTHER OPTIONS

|  |     |  |  |  |  |        |
|--|-----|--|--|--|--|--------|
| <b>Air Conditioning: Four-Season.</b> Includes 61-amp generator and increased cooling  | C60 |  |  |  |  | 407.60 |
| <b>Battery, Heavy-Duty: 15-plate, 60-amp-hr.</b> Included when Monte Carlo SS is ordered   | T60 |  |  |  |  | 15.80  |
| <b>Belts, Custom Deluxe Seat and Shoulder:</b> Includes brushed metal buckles and color-keyed belts. (Standard plastic buckles and belts are black).                       |     |  |  |  |  |        |
| <b>REPLACING STANDARD NUMBER OF BELTS:</b>   |     |  |  |  |  |        |
| Coupe with bench seat—5 seat and 2 front shoulder  | AK1 |  |  |  |  | 16.90  |
| Coupe with bucket seats—5 seat and 2 front shoulder  | AK1 |  |  |  |  | 15.30  |
| <b>SHOULDER BELTS—2 REAR:</b> for use when Custom Deluxe Belts are ordered   | AS4 |  |  |  |  | 26.35  |
| <b>Console:</b> Available only when bucket seats and optional transmission are ordered. Includes rear seat courtesy light and compartment. Shift lever mounted on console. | D55 |  |  |  |  | 59.00  |
| <b>Generator, 63-Amp Delcotron:</b>  |     |  |  |  |  |        |
| Without air conditioning   | K85 |  |  |  |  | 26.35  |
| With air conditioning  | K85 |  |  |  |  | 5.30   |

\* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.  
 † State and local taxes not included.

→ Indicates Change

# MONTE CARLO

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

| Description  | Option Number | Dealer Invoice Amount | Dealer Price | Factory D & H | List Price | GM's Suggested Retail Delivered Price* |
|--|---------------|-----------------------|--------------|---------------|------------|--|
| <b>Glass, Soft-Ray Tinted:</b> All windows   | A01           |                       |              |               |            | \$ 46.35                               |
| <b>Instrumentation, Special:</b> Includes tachometer, ammeter and temperature gauges mounted in instrument panel   | U14           |                       |              |               |            | 68.50                                  |
| <b>Lighting, Auxiliary:</b> Includes courtesy, luggage compartment, mirror map and underhood lights  | Z19           |                       |              |               |            | 21.10                                  |
| <b>Moldings, Belt</b>  | B85           |                       |              |               |            | 19.00                                  |
| <b>Paints, Exterior:</b>   |               |                       |              |               |            |  |
| <b>Solid</b>   |               |                       |              |               |            |  |
| <b>Two-Tone:</b> Includes bright metal outline moldings  |               |                       |              |               |            | N.C.                                   |
| → <b>Radiator, Heavy-Duty:</b> Included when air conditioning or performance rate rear axle is ordered with Monte Carlo SS.  | V01           |                       |              |               |            | 21.10                                  |
| <b>Radio Equipment:</b>  |               |                       |              |               |            |  |
| <b>Pushbutton:</b> Includes concealed windshield antenna   |               |                       |              |               |            |  |
| AM Radio   | U63           |                       |              |               |            | 66.40                                  |
| AM/FM Radio  | U69           |                       |              |               |            | 139.05                                 |
| AM/FM/Stereo Radio   | U79           |                       |              |               |            | 239.10                                 |
| Stereo Tape System with AM Radio   | UM1           |                       |              |               |            | 200.15                                 |
| Stereo Tape System with AM/FM/Stereo Radio   | UM2           |                       |              |               |            | 372.85                                 |
| <b>Speaker, Rear Seat:</b> Not available when stereo is ordered  | U80           |                       |              |               |            | 15.80                                  |
| <b>Roof Cover, Vinyl:</b> Includes bright metal outline moldings. See Color Selection Chart for solid exterior color availability  |               |                       |              |               |            |  |
| Black  | BB            |                       |              |               |            | 126.40                                 |
| Blue (Dark)  | CC            |                       |              |               |            | 126.40                                 |
| Brown (Dark)   | FF            |                       |              |               |            | 126.40                                 |
| Green (Dark)   | GG            |                       |              |               |            | 126.40                                 |
| White  | AA            |                       |              |               |            | 126.40                                 |
| <b>Shock Absorbers, Rear:</b> Superlift—automatic level control. Included when Monte Carlo SS is ordered.  | G67           |                       |              |               |            | 89.55                                  |
| <b>Skirts, Rear Fender:</b> Not available when 15" x 7" wheels, custom wheel covers or Monte Carlo SS is ordered.  | T58           |                       |              |               |            | 31.60                                  |
| <b>Speed and Cruise Control:</b> (Cruise-Master) Available only when automatic transmission is ordered. Not available when Monte Carlo SS or superlift rear shock absorbers are ordered. | K30           |                       |              |               |            | 63.20                                  |
| <b>Steering Wheels:</b>  |               |                       |              |               |            |  |
| <b>Comfort:</b> Available only when optional transmission is ordered   | N33           |                       |              |               |            | 45.30                                  |
| <b>Custom, Black:</b> Not available when comfort steering wheel is ordered.  | NK2           |                       |              |               |            | 15.80                                  |
| <b>Sport (4-Spoke), Black</b>  | NK4           |                       |              |               |            | 15.80                                  |
| <b>Trim, Interior:</b> See Interior and Exterior Color Selection Chart for availability and ordering information   |               |                       |              |               |            |  |
| <b>Strato-Bucket Seats:</b> Cloth or Vinyl   | A51           |                       |              |               |            | 136.95                                 |
| <b>Wheel Covers:</b> Not available when Monte Carlo SS is ordered  |               |                       |              |               |            |  |
| <b>Deluxe</b>  | PA3           |                       |              |               |            | 15.80                                  |
| <b>Custom:</b> Includes 15" x 7" wheels  | P02           |                       |              |               |            | 80.05                                  |
| <b>Wheels, 15" x 7JK:</b> Included when Monte Carlo SS, rally wheels or custom wheel covers are ordered  | PH1           |                       |              |               |            | 10.55                                  |
| <b>Wheels, Rally:</b> Included when Monte Carlo SS is ordered. Includes special 15" x 7" wheels with special center caps and trim nuts.  | Z17           |                       |              |               |            | 41.10                                  |

### FACTORY INSTALLED REGULAR PRODUCTION TIRES

|  |     |  |  |  |  |       |
|--|-----|--|--|--|--|-------|
| <b>Replaces (5) G78-15/B Bias Belted Ply Blackwall</b>   |     |  |  |  |  |       |
| (5) G78-15/B Bias Belted Ply White Stripe. Not available when Monte Carlo SS is ordered  | PUB |  |  |  |  | 32.30 |
| (5) G70-15/B Bias Belted Ply White Stripe. Available only when 15" x 7" wheels, rally wheels or custom wheel covers are ordered. Included when Monte Carlo SS is ordered | P90 |  |  |  |  | 49.35 |

\* Dealer Invoice Amount includes Holdback Amount retained for dealer's account in accordance with Vehicle Terms of Sale Bulletin.  
 † State and local taxes not included.

→ Indicates Change

# MONTE CARLO POWER TEAMS

## Engine, Transmission and Rear Axle Combinations

| ENGINES                       |   | TRANSMISSIONS                   | SHIFT LEVER LOCATION |                          | REAR AXLE RATIOS* |          |            |
|-------------------------------|---|---------------------------------|----------------------|--------------------------|-------------------|----------|------------|
| Option Number                 | Description   | Type (Std or Optional)          | Without Console      | With Optional Console    | Standard          | Optional |            |
|                               |   |                                 |                      |                          |                   | Perf.    | Trailering |
| <b>STANDARD ENGINE</b>        |   |                                 |                      |                          |                   |          |            |
| Standard Eight-Cylinder       | 245-hp Turbo-Fire 350 8-Cylinder<br>350-cu-in displacement<br>Regular camshaft<br>2-barrel carburetor<br>8.5:1 compression ratio<br>Hydraulic valve lifters<br>Single exhaust | 3-Speed (Std)—ZW4               | Column               | Not Available            | 3.08              | —        | —          |
|                               |   | Powerglide—M35                  | Column               | In Console w/Floor Shift | 3.08              | —        | —          |
|                               |   | Turbo Hydra-matic—M40           | Column               | In Console w/Floor Shift | 2.73              | —        | 3.31       |
| <b>OPTIONAL ENGINES</b>       |   |                                 |                      |                          |                   |          |            |
| Option L48                    | 270-hp Turbo-Fire 350 8-Cylinder<br>350-cu-in displacement<br>Regular camshaft<br>4-barrel carburetor<br>8.5:1 compression ratio<br>Hydraulic valve lifters<br>Single exhaust | Turbo Hydra-matic—M40           | Column               | In Console w/Floor Shift | 2.73              | —        | —          |
|                               |   | 4-Speed Wide-Range—M20          | Floor With Boot      | In Console               | 3.31              | —        | —          |
| Option LS3                    | 300-hp Turbo-Jet 400 8-Cylinder<br>402-cu-in displacement<br>Regular camshaft<br>4-barrel carburetor<br>8.5:1 compression ratio<br>Hydraulic valve lifters<br>Dual exhausts   | Turbo Hydra-matic—M40           | Column               | In Console w/Floor Shift | 2.73              | —        | —          |
|                               |   | 4-Speed Wide-Range—M20          | Floor With Boot      | In Console               | 3.31              | —        | —          |
| Monte Carlo SS Option Z20     | 365-hp Turbo-Jet 454 8-Cylinder<br>454-cu-in displacement<br>High-lift camshaft<br>4-barrel carburetor<br>8.5:1 compression ratio<br>Hydraulic valve lifters<br>Dual exhausts | Turbo Hydra-matic—M40           | Column               | In Console w/Floor Shift | 3.31              | —        | —          |
| Monte Carlo SS Option Z20/LS5 | 425-hp Turbo-Jet 454 8-Cylinder<br>454-cu-in displacement<br>Special camshaft<br>4-barrel carburetor<br>9.0:1 compression ratio<br>Mechanical valve lifters<br>Dual exhausts  | Turbo Hydra-matic—M40           | Column               | In Console w/Floor Shift | 3.31              | 4.10     | —          |
|                               |   | Special 4-Speed Close-Ratio—M22 | Floor With Boot      | In Console               | 3.31              | 4.10     | —          |

\* All ratios available as Positraction.

# MONTE CARLO INTERIOR AND EXTERIOR SELECTION CHART

**PLEASE NOTE:** The exterior and interior combinations for solid color paint shown in the chart below have been established as the combinations that would be attractive to the average customer. Orders for non-recommended solid color exterior and interior trim combinations may be submitted provided the original order carries a notation in the special instruction section. This notation should state that the color and trim selection has been verified and is definitely desired.

This procedure does not apply to orders that specify a vinyl roof cover, or two-tone paint combinations shown as the only combinations that have been approved.

| VINYL ROOF   | SOLID EXTERIOR COLOR AVAILABILITY   |
|--------------|---|
| BLACK        | BB   All Exterior Colors.   |
| BLUE (Dark)  | CC   Black, Blue, Silver or White Exterior Colors Only.                             |
| BROWN (Dark) | FF   Copper, Orange, Rosewood, Sandalwood or White Exterior Colors Only. <i>add</i> |
| GREEN (Dark) | GG   Black, Green or White Exterior Colors Only.                                    |
| WHITE        | AA   All Exterior Colors.   |

\* *Champion Gold also 2-15-71*

|       | Type of Seat             | INTERIOR TRIM |       |             |             |       |        |            |
|-------|--------------------------|---------------|-------|-------------|-------------|-------|--------|------------|
|       |                          | Black         |       | Blue (Dark) | Jade (Dark) |       | Saddle | Sandalwood |
|       |                          | Cloth         | Vinyl | Cloth       | Cloth       | Vinyl | Vinyl  | Cloth      |
| Coupe | Bench                    | 708           |       | 728         | 734         |       |        | 717        |
|       | Strato-Bucket (Opt. ASI) | 707           | 710   | 727         | 733         | 729   | 723    | 716        |

| EXTERIOR COLOR    | CODE  |       |       |             |             |        |            |  |
|-------------------|-------|-------|-------|-------------|-------------|--------|------------|--|
|                   | Lower | Upper | Black | Blue (Dark) | Jade (Dark) | Saddle | Sandalwood |  |
| Black, Tuxedo     | 19    | 19    | X     | X           | X           | X      | X          |  |
| Blue, Mulsanne    | 26    | 26    | X     | X           |             |        | X          |  |
| Blue, Ascot       | 24    | 24    | X     | X           |             |        | X          |  |
| Copper, Classic   | 67    | 67    | X     |             |             |        | X          |  |
| Gold, Placer      | 53    | 53    | X     |             |             | X      | X          |  |
| Green, Lime       | 43    | 43    | X     |             | X           | X      | X          |  |
| Green, Cottonwood | 42    | 42    | X     |             | X           |        | X          |  |
| Green, Antique    | 49    | 49    | X     |             | X           | X      | X          |  |
| Orange, Burnt     | 62    | 62    | X     |             |             |        | X          |  |
| Red, Cranberry    | 75    | 75    | X     |             |             |        | X          |  |
| Rosewood Metallic | 78    | 78    | X     |             |             |        | X          |  |
| Sandalwood        | 61    | 61    | X     |             | X           | X      | X          |  |
| Silver, Nevada    | 13    | 13    | X     | X           |             |        | X          |  |
| White, Antique    | 11    | 11    | X     | X           | X           | X      | X          |  |
| Yellow, Sunflower | 52    | 52    | X     |             | X           | X      | X          |  |

| TWO-TONE (With Antique White Upper only) | Lower | Upper | Black | Blue (Dark) | Jade (Dark) | Saddle | Sandalwood |
|--|-------|-------|-------|-------------|-------------|--------|------------|
| Blue, Mulsanne (Lower)                   | 26    | 11    | X     | X           |             |        | X          |
| Gold, Placer (Lower)                     | 53    | 11    | X     |             |             | X      | X          |
| Green, Lime (Lower)                      | 43    | 11    | X     |             | X           | X      | X          |
| Green, Antique (Lower)                   | 49    | 11    | X     |             | X           | X      | X          |
| Orange, Burnt (Lower)                    | 62    | 11    | X     |             |             |        | X          |
| Sandalwood (Lower)                       | 61    | 11    | X     |             | X           | X      | X          |

