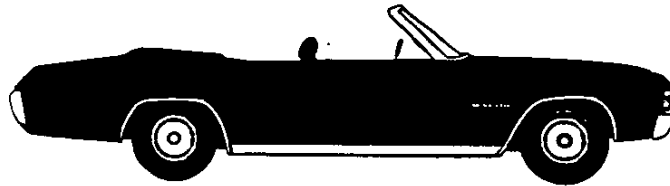




# 1971



## CHEVROLET

## CHEVELLE



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# GENERAL

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# MODEL IDENTIFICATION

## CHEVELLE

MODEL 133-13437 2-DOOR SPORT COUPE, 5-PASSENGER  
MODEL 133-13469 4-DOOR SEDAN, 6-PASSENGER  
MODEL 133-13480 2-DOOR SEDAN PICKUP, 3-PASSENGER

## MALIBU

### SERIES 135-13600

MODEL 135-13669 4-DOOR SEDAN, 6-PASSENGER  
MODEL 13639 4-DOOR SPORT SEDAN, 6-PASSENGER  
MODEL 135-13637 2-DOOR SPORT COUPE, 5-PASSENGER  
MODEL 13667 2-DOOR CONVERTIBLE, 5-PASSENGER  
MODEL 13680 2-DOOR SEDAN PICKUP, 3-PASSENGER

## CHEVELLE STATION WAGONS

MODEL 131-13236 NOMAD 4-DOOR STATION WAGON, 2-SEAT  
MODEL 13436 GREENBRIER 4-DOOR STATION WAGON, 2-SEAT  
MODEL 13446 GREENBRIER 4-DOOR STATION WAGON, 3-SEAT  
MODEL 13636 CONCOURS 4-DOOR STATION WAGON, 2-SEAT  
MODEL 13646 CONCOURS 4-DOOR STATION WAGON, 3-SEAT  
MODEL 13836 CONCOURS ESTATE 4-DOOR STATION WAGON, 2-SEAT  
MODEL 13846 CONCOURS ESTATE 4-DOOR STATION WAGON, 3-SEAT

# SERIAL NUMBERS AND IDENTIFICATION

## ONLY BASIC DESIGNATIONS SHOWN

### VEHICLE SERIAL NUMBER

6-Cylinder Example:

Model	Model Year	Assembly Plant (Baltimore)	Unit Number (1st unit)
13369	1	B	10001

Thus: The 1st model built at Lakewood would be serial number 133691B10001

8-Cylinder Example:

Model	Model Year	Assembly Plant (Baltimore)	Unit Number (1st unit)
13469	1	B	10001

Thus: The 1st model built at Lakewood would be serial number 134691B10001

### ASSEMBLY PLANTS

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

Canadian Plant  
No. "I" 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>
Designation	Designation	1971	Month & Date
R3	S (Muncie)	1	E01D*

R3	3-Speed	L-6 engine	S - Muncie
R4	3-Speed	V-8 engines	S - Muncie
WO	4-Speed	V-8 engine	P - Muncie
TH	Powerglide	L-6 engine	C - Cleveland E - Mc Kinnon Ind.
TJ	Powerglide	V-8 engine	C - Cleveland E - Mc Kinnon Ind.
HW	Turbo Hydra-Matic	V-8 engine	B - Cleveland Y - Toledo
CD	Turbo Hydra-Matic	V-8 engine	- - Ypsilanti

Location:

- 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.

o-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: F1210CAA

Source	Production*	Type
Designation	Month & Date	Designation
F (Flint)	1210	CAA

#### Turbo-Thrift 250, 250 Cubic Inch L-6, Base Engine

CAA - Regular engine, 3-speed  
CAB - Regular engine, Powerglide

#### Turbo-Fire 307, 307 Cubic Inch V-8, Base Engine

CCA - Regular engine, 3-speed  
CCC - Regular engine, Powerglide  
CCC - Regular engine, Turbo Hydra-Matic (Chevrolet)

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

- CJJ - Optional engine, 3-speed, 4-bbl. carb.
- CJJ - Optional engine, 4-speed, 4-bbl. carb.
- CJD - Optional engine, Turbo Hydra-Matic (Chevrolet)

#### Turbo-Fire 350, 350 Cubic Inch V-8 (RPO-L65)

- CGA - Optional engine, 4-speed, 2-bbl. carb.
- CGC - Optional engine, Turbo Hydra-Matic (Chevrolet)

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

- CLS - Optional engine, 3-speed, 4-bbl. carb.
- CLA - Optional engine, 4-speed, 4-bbl. carb.
- CLB - Optional engine, Turbo Hydra-Matic, 4-bbl. carb.

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

- CPA - Optional engine, 4-speed, 4-bbl. carb.
- CPD - Optional engine, Turbo Hydra-Matic, 4-bbl. carb.

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

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

Location:

6-cylinder engine . . . . . Stamped on pad on right side of cylinder block to rear of distributor  
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	CHEVELLE	MALIBU
Radiator Grille - Argent Plastic	X	X
Radiator Grille Nameplate - Bright Block "Chevelle"	X	X
Radiator Grille Emblem - Bright Bow Tie		X
Bright Radiator Grille Outline Moldings		X
Bright Headlamp Bezels	X	X
Parking Lamp in Fender Extension - White Lens, Amber Bulb	X	X
Bright Parking Lamp Bezels	X	X
Body - Color Bumper Filler Panel	X	X
Bright Hood and Fender Molding (at Cowl)	X	X
Bright Windshield Reveal Molding with narrow lower section	X	
Bright Windshield Reveal Molding with wide lower section		X
Non-depressed Park Windshield Wipers with Conventional Linkage	X	
Depressed Park Windshield Wipers with Articulated Left Blade		X
Bright Windshield Header and Pillar Moldings		67

SIDE		
Front Fender Nameplate - "Malibu"		X
Front Marker Lamp (Integral with Park and Turn Lamp) - Clear Lens with Amber Reflector	X	X
Rear Marker Lamp with Red Lens and Body-Color Bezel	X	X
Bright Wheel Opening Moldings		X
Bright Wide Rocker Molding		X
Bright Roof Drip Molding		37-39-69
Bright Weatherstrip Retainers	37	37-39
Bright Ventipane Frames	69	39-69
Rectangular LH Outside Rear View Mirror	X	X
Hub Caps	X	X

REAR		
Deck Lid Nameplate - Bright Script and Block "Chevelle by Chevrolet"	X	X
Bright Rear Window Reveal Molding	X	37-39-69
Twin Bumper-mounted Tail Lamps (Outboard Tail, Stop and Turn, Inboard Backup)	Plain Lens	Argent Cuff and Bright Ring
Bright Belt Molding		67
Body-Color Valance Panel - below Bumper	X	X

# EXTERIOR EQUIPMENT

## STANDARD EXTERIOR EQUIPMENT STATION WAGONS

FRONT	NOMAD	GREENBRIER	CONCOURS	CONCOURS ESTATE
Radiator Grille - Argent Plastic	X	X	X	X
Radiator Grille Nameplate - Bright Block "Chevrolet"	X	X	X	X
Radiator Grille Emblem - Bright Bow Tie	X	X	X	X
Bright Radiator Grille Outline Moldings	X	X	X	X
Bright Headlamp Bezels	X	X	X	X
Parking Lamp in Fender Extension - White Lens, Amber Bulb	X	X	X	X
Bright Parking Lamp Bezels	X	X	X	X
Body Color Bumper Filler Panel	X	X	X	X
Bright Hood and Fender Molding (at Cowl)	X	X	X	X
Bright Windshield Reveal Molding with Wide Lower Section			X	X
Bright Windshield Reveal Molding with Narrow Lower Section	X	X		
Non-Depressed Park Windshield Wipers with Conventional Linkage	X	X		
Depressed Park Windshield Wipers with Articulated Left Blade			X	X

SIDE	"Nomad"	"Greenbrier"	"Concours"	"Concours Estate"
Rear Quarter Nameplate - Bright Script except Block "Greenbrier"				
Front Marker Lamp (Integral with Park and Turn Lamp) - Clear Lens with Amber Reflector	X	X	X	X
Bright Ventipane Frame	X	X	X	X
Bright Wide Rocker Molding		X	X	
Bright Wheel Opening Moldings			X	X
Bright Drip Molding		X	X	X
Bright Rear Quarter Window Reveal Molding		X	X	X
Painted Rear Quarter Window Reveal Molding	X			
Body Upper and Lower Moldings with Lined Oak Applique. Rosewood Applique between.				X
Brown-painted Molding in Front Fender Bumper Depression				X
Brown-painted Molding in Rear Quarter Bumper Depression				X
Rear Quarter Crease Molding with Rosewood Applique				X



# EXTERIOR EQUIPMENT

## STANDARD EXTERIOR EQUIPMENT STATION WAGONS

REAR	NOMAD	GREENBRIER	CONCOURS	CONCOURS ESTATE
Tailgate Nameplate - Bright Script "Chevrolet"	X	X	X	X
Backup Lamps mounted in Tailgate	X	X	X	X
Bright Tail Lamp Bezel	X	X		
Bright Tail Lamp Bezel with Black Paint Fill			X	X
Bright Tailgate Window Reveal Molding	X	X	X	X
Twin Tailgate Moldings with Limed Oak Applique.				X
Rosewood Applique between Brown Painted Molding below Tail Lamps				X
Twin Bright Tailgate Moldings with Black Paint Fill			X	
Rubber Mat in Bumper Step Well	X	X	X	X
Body-to-Bumper Filler Panel with Rubber Mat		46	X	X
Body-to-Bumper Filler Panel with Black Paint	X	36		

# EXTERIOR EQUIPMENT

## STANDARD EXTERIOR EQUIPMENT EL CAMINO

FRONT	STANDARD	CUSTOM
Radiator Grille--Argent Plastic	X	X
Radiator Grille Nameplate--Bright Block "Chevrolet"	X	X
Radiator Grille Emblem--Bright Bow Tie	X	X
Bright Radiator Grille Outline Moldings	X	X
Bright Headlamp Bezels	X	X
Parking Lamp in Fender Extension--White Lens, Amber Bulb	X	X
Bright Parking Lamp Bezels	X	X
Body Color Bumper Filler Panel	X	X
Bright Hood and Fender Molding (At Cowl)	X	X
Bright Windshield Reveal Molding with Narrow Lower Section	X	
Bright Windshield Reveal Molding with Wide Lower Section		X
Non-Depressed Park Windshield Wipers with Conventional Linkage	X	
Depressed Park Windshield Wipers with Articulated Left Blade		X

SIDE	STANDARD	CUSTOM
Front Fender Nameplate--Bright Block "El Camino"	X	X
Front Marker Lamp (Integral with Park and Turn Lamp)--Clear Lens with Amber Reflector	X	X
Bright Wheel Opening Moldings		X
Lower Body Molding with Black Paint Fill		X
Body Silver Paint Below Lower Body Molding		X
Bright Roof Drip Molding		X
Bright Door Frame Scalp Molding		X
Bright Load Compartment Belt Molding	X	X
Bright Rear Quarter Peak Molding	X	X
Bright Ventipane Frames	X	X

REAR	STANDARD	CUSTOM
Tailgate Nameplate--Bright Block "Chevrolet"	X	X
Backup Lamps - Tailgate-Mounted	X	X
Bumper - Mounted Reflectors	X	X
Bright Rear Window Reveal Molding	X	X
Bright Tailgate Belt Molding	X	X
Bright Horizontal Tailgate Moldings with Black Paint Fill Wood Grain Applique Between		X
Bright Tail Lamp Bezels	X	
Bright Tail Lamp Bezels with Black Paint Fill		X

# INTERIOR EQUIPMENT

## STANDARD INTERIOR EQUIPMENT

ROOF AND PILLARS	CHEVELLE	MALIBU
Headling – Perforated, Vinyl Coated	X	X
Sail Finish Panel – Matching Headlining	X	X
Vinyl Finish Lace – Windshield Header, Roof Side Rail, Rear Quarter Window, and Rear Window	X	37-39-69
Rear Window Escutcheon – Plastic	X	37-39-69
Windshield Header Covering – Coated Fabric		67
Padded Sunshades (Short, Narrow Type) – Matching Headlining	X	37-39-69
Padded Sunshades (Short, Narrow Type) – Coated Fabric		67
Bright Sunshade Hinge Bezel	X	37-39-69
Windshield-Cemented Rear View Mirror – 12-Inch Prismatic With Gray Padded Edge, Dull Chrome Support	X	X
Dome Lamp – White Lens, Argent Bezel	X	37-39-69
Windshield Pillar Garnish Moldings – Painted Metal (Air Gap Type)	X	37-39-69
Windshield Pillar Garnish Moldings – Plastic (Padded Type)		67
Shoulder Belt Anchor Cover – Plastic	X	37-39-69
Bright Shoulder Belt Clip Retainers	X	37-39-69
Coat Hooks – Vinyl	X	37-39-69
Embossed Board Package Shelf	X	37-39-69
Center Pillar Cover – Plastic	69	39-69
Door Opening Windlace – Vinyl	37	37-67
Front Door Jamb Switches	X	X
Power Operated Folding Top		67

## STANDARD INTERIOR EQUIPMENT

SEATS AND FLOOR COVERING	CHEVELLE	MALIBU
Front Bench Seat With 2-Inch Foam Pad Cushion	X	X
Black Seat Adjuster Handle	X	X
Bright Folding Seat Backrest Latch and Bezel	37	37-67
Seat Backrest Hinge Cover - Plastic	37	37-67
Vinyl Trimmed Head Restraints - Adjustable	X	X
Rear Seat Cushion - 1-Inch Foam Pad With 6-Oz. Cotton Pad	X	X
Seat Backrest To Quarter Panel Filler-Painted Textured Metal	37	37
Two Black Front Seat Shoulder Belts	X	37-39-69
Three Black Front Seat Lap Belts	X	X
Three Black Rear Seat Lap Belts	X	X
Front Seat Outboard Lap Belt Retractor Covers	X	X
Color-Keyed Deep Twist Carpet In Passenger Compartment		X
Color-Keyed Vinyl-Coated Rubber Mat In Passenger Compartment	X	
Luggage Compartment Spatter Paint	X	X
Luggage Compartment Mat - Rubber and Foam Backed Vinyl		X

DOOR AND QUARTER PANEL	CHEVELLE	MALIBU
Rear Quarter Finish Panel - Plastic	69	39-69
All-Vinyl Door and Quarter Trim Panels	37	37-67
Front Door Padded Armrest	X	X
Rear Door Padded Armrest With Ash Tray	69	39-69
Rear Quarter Armrest With Ash Tray	37	37-67
Bright Door Lock Buttons - Plastic	X	X
Clear Vinyl Window Control Handle Knobs	X	X
Bright Cowl Ventilation Control Knobs	X	X
Bright Astro-Ventilation Control Knobs	37	37-67
Cowl Kick Pads - Plastic	X	X
Folding Top Linkage Finish Panel - Coated Fabric		67
Door Sidewall Series Nameplate - "Malibu"		37-67

# INTERIOR EQUIPMENT

## STANDARD INTERIOR EQUIPMENT

SEATS PANEL AND STEERING COLUMN	CHEVELLE	MALIBU
General Cluster Lighting - Blue Tint	X	X
Glove Compartment Light		X
Courtesy Lights		67
Warning Lights - Temperature, Generator, Oil Pressure, Brakes	X	X
Indicators - Hi Beam and Turn Signal	X	X
Two-Speed W/S Wiper and Washer - Slide Type, Depress To Wash, Bright Knob	X	X
Ash Tray	X	X
Heater - Slide Type Controls Bright Knobs, Illuminated	X	X
Light Switch - Black Soft Knob	X	X
Parking Brake Release - "T" Handle	X	X
Cigarette Lighter - Black Soft Knob	X	X
120 MPH Speedometer - Odometer	X	X
Fuel Gage	X	X
Two Astro-Ventilation Outlets	37	37-67
Glove Compartment Door Lock	X	X
Black Parking Brake Release - White "Parking Brake"	X	X
Trim Color Instrument Panel Pad - Madrid Surface	X	X
Clock Hole Cover Plate	X	X
A/C Center Outlet Cover Plate With Bright Border And "Chevrolet"	X	X
Trim Color Steering Wheel (Plastic) And Column	X	X
Soft Vinyl Steering Wheel Shroud With Black Insert Having "Chevrolet" Nameplate	X	X
Bright Hazard Flasher Knob	X	X
Trim Color Soft Turn Signal And Shift Lever Knobs	X	X
Steering Column Ignition Switch With Integral Steering And Transmission Lock	X	X
<b>GLASS</b>		
Laminate Safety Float Glass Windshield (Thin Design)	X	X
Safety Solid Tempered Plate Side Glass	X	X
Safety Solid Tempered Plate Rear Window	X	X

# INTERIOR EQUIPMENT

## STANDARD INTERIOR EQUIPMENT STATION WAGONS

INSTRUMENT PANEL AND STEERING COLUMN	NOMAD	GREENBRIER	CONCOURS	CONCOURS ESTATE
General Cluster Lighting - Blue Tint	X	X	X	X
Glove Compartment Light			X	X
Heater Control Light	X	X	X	X
Warning Lights - Temperature, Generator Oil Pressure, Brakes	X	X	X	X
Indicators - Hi Beam and Turn Signal	X	X	X	X
Two-Speed W/S Wiper and Washer - Slide Type, Depress to Wash, Bright Knob	X	X	X	X
Ash Tray	X	X	X	X
Heater - Slide Type Controls, Bright Knobs, Illuminated	X	X	X	X
Light Switch - Black Soft Knob	X	X	X	X
Parking Brake Release - "T" Handle	X	X	X	X
Cigarette Lighter - Soft Black Knob	X	X	X	X
120 MPH Speedometer-Odometer	X	X	X	X
Fuel Gage	X	X	X	X
Glove Compartment Door Lock	X	X	X	X
Black Parking Brake Release - White "Parking Brake"	X	X	X	X
Trim Color Instrument Panel Pad - Madrid Surface	X	X	X	X
Clock Hole Cover Plate	X	X	X	X
A/C Center Outlet Cover Plate With Bright Border and "Chevrolet"	X	X	X	X
Trim Color Steering Wheel (Plastic) and Column	X	X	X	X
Soft Vinyl Steering Wheel Shroud With Black Insert Area Having "Chevrolet" Nameplate	X	X	X	X
Bright Hazard Flasher Knob	X	X	X	X
Trim Color Soft Turn Signal and Shift Lever Knobs	X	X	X	X
Steering Column Ignition Switch With Integral Steering and Transmission Lock	X	X	X	X
<b>GLASS</b>				
Laminate Safety Float Glass Windshield (Thin Design)	X	X	X	X
Safety Solid Tempered Plate Side Glass	X	X	X	X
Safety Solid Tempered Plate Rear Window	X	X	X	X

# INTERIOR EQUIPMENT

## EL CAMINO INTERIOR EQUIPMENT

ROOF AND PILLARS	STANDARD	CUSTOM
Premier Vinyl Coated Headlining—Perforated	X	X
Trim Color Windshield and Rear Window Garnish Molding and Roof Rail Molding	X	X
12-Inch Prismatic Rear View Mirror with Gray Padded Edge	X	X
Silver Painted Rear View Mirror Support	X	X
Trim Color Plastic Rear View Mirror Support Cover	X	X
Padded Sunshades	X	X
Air Gap Windshield Pillars	X	X
Bright Bezeled Backlight Header Dome Lamp	X	X
Door Jamb Switch	X	X
Shoulder Belt Anchor Cover (Belt Color)	X	X

SEATS AND FLOOR COVERING	STANDARD	CUSTOM
Front Seat Cushion with 2.00-Inch Foam Pad	X	X
Bright Folding Seat Back Latches	X	X
Black Seat Adjuster Handle	X	X
All-Vinyl Seat Cushion and Seat Back	X	X
Vinyl Coated Rubber Passenger Compartment Floor Covering	X	
Carpet Passenger Compartment Floor Covering		X
Head Restraints	X	X
Three Black Seat Belts	X	X
Two Black Shoulder Belts	X	X
Front Seat Outboard Lap Belt Retractor Covers (Belt Color)	X	X

DOOR AND QUARTER PANEL	STANDARD	CUSTOM
Door Padded Armrest	X	X
Plastic Window Control Handle Knobs	X	X
Bright Door Lock Buttons	X	X
All-Vinyl Door and Quarter Panel Trim	X	X
Trim Color Shoulder Belt Buckle Retainers	X	X
Bright Shoulder Belt Retaining Clip	X	X
Shoulder Belt Anchor Cover (Belt Color)	X	X

INSTRUMENT PANEL AND STEERING WHEEL	STANDARD	CUSTOM
Glove Compartment Light		X
Heater Control Light	X	X
Temperature, Generator, Oil Pressure and Brake Warning Lights	X	X
Hi-Beam and Turn Signal Indicators	X	X
Bright Cowl Ventilation and Astro-Ventilation Control Knobs	X	X
Windshield Wiper and Washer Switch (Slide-Type, Depress to Wash)	X	X
Light Switch — Soft Black Knobs	X	X
Bright Hazard Flasher Knob	X	X
Trim Color Turn Signal and Transmission Shift Lever Knobs	X	X
Steering Column Ignition Switch with Integral Steering Wheel and Transmission Lock	X	X
T-Handle Parking Brake Release	X	X
Blended Air Heater	X	X
Two-Speed Windshield Wiper and Washer	X	X
Ash Tray	X	X
Cigarette Lighter — Soft Black Knob	X	X
Speedometer, Odometer and Fuel Gage	X	X
Trim Color Instrument Panel Pad	X	X
Clock Hole Cover Plate	X	X
Glove Compartment Door Lock	X	X
Trim Color Steering Wheel and Column	X	X
Soft Vinyl Steering Wheel Shroud with Black Insert Having "Chevrolet" Nameplate	X	X

GLASS	STANDARD	CUSTOM
Laminated Safety Plate Glass Windshield	X	X
Solid Safety Plate Glass Ventpanes	X	X
Solid Safety Plate Glass Backlight	X	X
Solid Safety Plate Glass Door Windows	X	X

# EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
Air conditioning, Four-Season: V8 models only . . . . .	C60	
Battery, heavy duty . . . . .	T60	
Belts, seat and shoulder: in addition to or replacing standard belts.		
Custom deluxe belts: (replacing standard number of belts)		
Coupe and Sedan – 6 seat and 2 shoulder . . . . .	AK1	
Convertible – 6 seat . . . . .	A39	
Shoulder belts – 2 rear: (Convertible requires use of front shoulder belt option).		
For use when Custom Deluxe Belts are ordered . . . . .		ACC
Shoulder belts – 2 front: Convertible only.		
For use when Custom Deluxe Belts are ordered . . . . .	A85	
Cap, locking gas filler . . . . .		ACC
Carrier, rear deck . . . . .		ACC
Compass . . . . .		ACC
Console, floor (bucket seats required) . . . . .	D55	
Deflectors, rain, 4-door sedans . . . . .		ACC
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
Hitch, trailer, equalizing type . . . . .		ACC
Highway Emergency Kit – fire extinguisher, tire inflator, fuses . . . . .		ACC
Hood, "Cowl Induction" – SS models only . . . . .	ZL2	
Instrumentation, Special Coupes and Convertible only . . . . .	U14	
Lighting, auxiliary:	ZJ9	
Courtesy lights – Standard on Convertible		
Glove compartment light – Standard on Malibu		ACC
Luggage compartment light		ACC
Ash tray light		ACC
Underhood light		ACC
Litter container . . . . .		ACC
Lock, rear door safety . . . . .		ACC
Mirror, RH . . . . .		ACC
Moldings, side door windows: 4-Door Sedans only . . . . .	B90	
Monitor, windshield washer fluid . . . . .		ACC
Paint stripe, hood and deck – SS, and Malibu Coupe and Convertible models only . . . . .	D88	
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	
Windshield antenna (When no radio is ordered) . . . . .	U76	



# EXTRA COST EQUIPMENT

EQUIPMENT	RPO	ACC.
Roof cover, vinyl . . . . .	C08	
SS 454 equipment - Malibu Coupe and Convertible only . . . . .	Z15	
Safety seat - child . . . . .		ACC
Safety seat - infant . . . . .		ACC
Seats, front bucket - Malibu Coupe and Convertible only . . . . .	A51	
Shift lever floor mount - standard 3-speed transmission . . . . .	M11	
Ski rack - roof mount . . . . .		ACC
Speed control: (Cruise-Master) V8 models only. Available only when automatic transmission is ordered . . . . .	K30	ACC
Steering wheel, Comfortilt: Available only when automatic transmission is ordered . . . . .	N33	
Steering wheel, Vinyl Rim . . . . .	NK2	
Steering wheel, sport . . . . .	NK4	
Suspension, heavy duty front and rear . . . . .	F40	
Suspension, special front and rear: . . . . .	F41	
Tape player - cassette . . . . .		ACC
Tops, convertible: (colors) . . . . .	C05	
Two-Tone finish: includes bright metal outline moldings . . . . .	-	
W/S wiper control Electro-Tip - Malibu only . . . . .	CD3	
Wheel covers, full: . . . . .	P01	
Wheel covers, special: . . . . .	P02	
Wheel covers, wire . . . . .		ACC
Wheels, Rally . . . . .	Z17	
<b>FACTORY-INSTALLED REGULAR PRODUCTION TIRES</b>		
E78 x 14 bias belted ply dual white stripes . . . . .	PL3	
F78 x 14 bias belted ply blackwall . . . . .	PX5	
F78 x 14 bias belted ply dual white stripes . . . . .	PX6	
<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
Operating convenience group . . . . .	ZQ2	
Electric clock . . . . .	U35	ACC
Rear window defroster (Forced Air) . . . . .	C50	
L.H. outside remote-control rearview mirror . . . . .	D33	ACC
<b>POWER ASSISTS</b>		
Brakes, power . . . . .	J50	
Brakes, power with front discs . . . . .	JL2	
Door lock system, power . . . . .	AU3	
Seat back latch, automatic: Coupe and Convertible models only. Available only when power door lock system is ordered . . . . .	AQ2	
Steering power: Variable ratio . . . . .	N40	

# EXTRA COST EQUIPMENT

## STATION WAGONS AND EL CAMINO

EQUIPMENT	RPO	ACC.
Air conditioning, Four-Season: V8 models only	C60	
Air deflector, tailgate window	C51	ACC
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	AS4	
Cap, locking gas filler		ACC
Carrier, roof luggage	V55	ACC
Compass		ACC
Console, floor (bucket seats required)	D55	
Deflectors, rain		ACC
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
Hitch, trailer, equalizing type		ACC
Highway Emergency Kit - fire extinguisher, tire inflator, fuses		ACC
Hood, "Cowl Induction" - SS models only	ZL2	
Instrumentation, El Camino models only	U14	
Lighting, auxiliary:	ZJ9	
Courtesy Lights		
Glove compartment light -		
Standard on Concours, Concours Estate, Custom El Camino		ACC
Ash tray light		ACC
Underhood light		ACC
Litter container		ACC
Lock, rear door safety		ACC
Mirror, RH		ACC
Moldings, side door windows: Standard on Custom El Camino	B90	
Monitor, windshield washer fluid		ACC
Paint stripe, hood - SS and Custom El Camino Models only	D88	
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 - Station Wagons only	U79	ACC
Stereo Tape System with AM Radio - Station Wagons only	UM1	ACC
Stereo Tape System with AM/FM/Stereo Radio - Station Wagons Only	UM2	ACC
Speaker, rear seat (Not available when stereo is ordered) - Station Wagons only	U80	
Windshield antenna (When no radio is ordered)	U76	

# EXTRA COST EQUIPMENT

	RPO	ACC.
<b>EQUIPMENT</b>		
Roof cover, vinyl - El Camino models only . . . . .	C08	
SS 454 equipment - Custom El Camino only . . . . .	Z15	
Safety seat - child . . . . .		ACC
Safety seat - infant . . . . .		ACC
Seats, front bucket - Custom El Camino only . . . . .	A51	
Shift lever, floor mount - standard 3-speed transmission . . . . .	M11	
Ski rack - roof carrier mount . . . . .		ACC
Speed control: (Cruise-Master) V8 models only. Available only when automatic transmission is ordered . . . . .	K30	ACC
Steering wheel, Comfortilt: Available only when automatic transmission is ordered . . . . .	N33	
Steering wheel, Vinyl Rim . . . . .	NK2	
Steering wheel, sport . . . . .	NK4	
Suspension, heavy duty front and rear - El Camino models only . . . . .	F40	
Tape player - cassette . . . . .		ACC
W/S wiper control Electro-Tip - concealed wiper models only . . . . .	CD3	
Wheel covers, full: . . . . .	P01	
Wheel covers, special: . . . . .	P02	
Wheel covers, wire . . . . .		ACC
Wheels, Rally - El Camino models only . . . . .	ZJ7	
<b>FACTORY-INSTALLED REGULAR PRODUCTION TIRES</b>		
G78 x 14 B bias belted ply dual white stripes - Station Wagons only . . . . .	PK2	
G78 x 14 D bias belted ply blackwall - Station Wagons only . . . . .	PM5	
G78 x 14 D bias belted ply dual white stripes - Station Wagons only . . . . .	PM6	
F78 x 14 B bias belted ply dual white stripes - El Camino models only . . . . .	PX6	
<b>FEATURE GROUPS (Any item contained in a feature group may be ordered separately)</b>		
Appearance guard group . . . . .	ZP5	
Front bumper guards . . . . .	V30	ACC
Door edge guards: Not available on Concours Estate . . . . .	B93	ACC
Color-keyed floor mats - 2 Front, 2 Rear . . . . .	B37	ACC
Visor vanity mirror . . . . .	D34	ACC
Operating convenience group . . . . .	ZQ2	
Electric clock . . . . .	U35	ACC
Rear window defroster (Forced Air) - Station Wagons only . . . . .	C50	
L.H. outside remote-control rearview mirror . . . . .	D33	ACC
<b>POWER ASSISTS</b>		
Brakes, power - Nomad wagon, El Camino models only . . . . .	J50	
Brakes, power with front discs - Nomad wagon, El Camino models only . . . . .	JL2	
Door lock system, power . . . . .	AU3	
Steering, power . . . . .	N40	
Window, tailgate, power - Standard on 3-seat models . . . . .	A33	

**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



2

3

4

5

6

7



# CHASSIS

**FRAME AND FRONT SUSPENSION . . . . . 2-3**  
**STEERING, DRIVELINE, WHEELS AND TIRES . . . . . 4**  
**REAR AXLE AND SUSPENSION . . . . . 5-6**  
**BRAKES . . . . . 7**  
**BULBS AND LAMPS . . . . . 8**  
**FUSES AND CIRCUIT BREAKERS . . . . . 9**

# FRAME AND FRONT SUSPENSION

## FRAME

Description . . . . . All welded perimeter frame with front crossmember, rear axle upper control arm crossmember, and rear crossmember. Center sections except convertible and sedan pickup are "C" shaped; convertible and sedan pickup have welded box construction members. Rear axle kick-up box welded construction. Rear of kickup "C" shaped. Body Mounting: Convertible - 12 biscuits; station wagon, sedan pickup-8 biscuits +4 cushions; balance - 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 spherical joint steering knuckle, pivots for each wheel.

## CONTROL ARMS

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

## STEERING KNUCKLES

Description . . . . . Forged steel with integral brake cylinder mounting, and 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 . . . . . 0.8125

## 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 spring 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.)
3952803	AH	134.05	.583	10.12	250	17.45	11.7 @ 1430
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
3952807	AQ	153.45	.610	11.52	250	18.57	11.7 @ 1710
3952810	AZ	140.05	.607	10.52	275	17.37	11.7 @ 1550
3952811	GI	140.05	.607	10.52	275	17.62	11.7 @ 1620
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
3952815	GT	131.05	.618	9.82	320	16.32	11.7 @ 1470
3952816	GU	131.05	.618	9.82	320	16.54	11.7 @ 1540
3952817	GV	131.05	.618	9.82	320	16.76	11.7 @ 1610
3952818	GW	138.05	.629	10.32	320	16.98	11.7 @ 1680
3952819	GX	138.05	.629	10.32	320	17.17	11.7 @ 1740
3952820	GY	149.29	.646	11.12	320	17.35	11.7 @ 1800
3952821	GZ	149.35	.646	11.12	320	17.54	11.7 @ 1860
3952822	AA	149.35	.646	11.12	320	17.73	11.7 @ 1920
3952823	AB	132.05	.654	9.82	390	16.14	11.7 @ 1720
3952824	AC	132.15	.654	9.82	390	16.42	11.7 @ 1830
3952825	AD	137.75	.663	10.22	390	16.70	11.7 @ 1940
3960665	GB	125.89	.659	9.22	435	15.52	11.7 @ 1650
3960686	GC	125.94	.659	9.22	435	15.32	11.7 @ 1780
3974684	GD	160.82	.617	11.92	250	18.85	11.7 @ 1780
3983300	AK	170.88	.645	12.62	275	18.38	11.7 @ 1830
3983301	AL	170.91	.645	12.62	275	18.64	11.7 @ 1900
3983304	AP	163.47	.663	12.02	320	17.92	11.7 @ 1980
3987798	GP	135.52	.679	10.0	435	16.12	11.7 @ 1910



# STEERING, DRIVELINE, WHEELS AND TIRES

## MANUAL STEERING (Standard)

Description	Semi-reversible, recirculating ball nut gear, and a energy absorbing steering column for safety. Tilt steering wheel optional.
Ratios	Gear, 24.0:1; Overall, 28.7:1
Turning diameters (ft)	
Outside front, wall to wall	45.5
Outside front, curb to curb	42.0
Number of wheel turns, lock to lock	6.0
Outside wheel angle with inside wheel @ 20°	18.6°
Linkage	Parallelogram, front of wheels, 2 tie rods
Steering wheel	
Type	Oval
Diameter	15.2 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.
Ratios	Gear, 16.0/13.0; overall, 18.5/12.4
Number of wheel turns, lock to lock	3.0

## DRIVELINE

Type	Straight tube
Number used	One
Diameter (O.D.)	3.25
Length (C/L of U-Joints) for manual transmissions	
112 in. wheelbase	56.34
116 in. wheelbase	60.14
Wall thickness	.065
Universal joints	
Type	Cross
Number used	Two
Bearings	Prepack, anti-friction
Drive and torque	Through rear suspension control arms

## WHEELS, REGULAR PRODUCTION

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 Wagons and SS	14 x 5
Wagons	14 x 6
● SS (Trans-Am)	15 x 7
Offset	
14 x 5	.60
14 x 6	.88
● 15 x 7 (Trans-Am)	.34

## WHEELS, RALLY-TYPE, RPO ZJ7

(Same as regular production except as follows)	
Type	large ventilation slots
Size	14 x 6
Offset	0.88

## TIRES, REGULAR PRODUCTION

Construction	Fiberglass bias belted
Load range	B (4 ply rating)
Sizes	
● E78 x 14 (6 cyl. except station wagons)	
Static loaded radius	12.2
Loaded Rev/mi @ 45 mph	800
Capacity @ 24 psi	1190
F78 x 14 (V-8's except SS and El Camino except SS)	
Static loaded radius	12.4
Loaded Rev/mi @ 45 mph	785
Capacity @ 24 psi	1240
F60 x 15 (SS models)	
Static loaded radius	12.23
Loaded Rev/mi @ 45 MPH	801
Capacity @ 24 psi	1280
G78 x 14B or G78 x 14D (Station Wagons)	
Static loaded radius	B-12.6
Loaded Rev/mi @ 45 mph	D-12.6
Capacity @ 24 psi	B-778
Capacity @ 24 psi	D-773
Capacity @ 24 psi	B-1380
Capacity @ 24 psi	D-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	2.56, 2.73, 3.08, 3.31 . . . . . 8.125 2.73, 3.31, 4.10 . . . . . 8.875
Pinion bearing adjustment	Shim
Lubricant	
Type	Military Spec. MIL-L-2105-B
Viscosity	SAE 80
Capacity (pts)—8.125 hypoid gear	3.75
—8.875 hypoid gear	4.25

### AXLE SHAFT

Type	Forged with 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	
2.56 ratio	41.16
2.73	41.15
● 3.08	40.13
● 3.31	43.13
8.875 Ring Gear	
2.73	41.15
3.31	43.13
4.10	41.10

### POSITRACTION DIFFERENTIAL (See Power Trains)

Type	Cone clutches or dual disc clutches
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### 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—Except wagon and pickup	8.80
Wagon and pickup	8.23
Jounce—Except wagon and pickup	3.59
Wagon and pickup	2.91
Rebound	5.21
Wheel to spring, travel ratio	1.06

### SHOCK ABSORBERS

Type	Direct, double-acting, hydraulic; air booster type for Sedan Pickup.
Piston diameter	1.00

# REAR AXLE AND SUSPENSION

## 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	Assy. No.	Cut-Off Length	Wire Dia.	Total Coils	Deflection Rate (lbs./inch)	Heights	
						Free	Working (In. @ Lbs.)
3893389	BU	103.8	.522	6.25	100	14.70	9.00 @ 570
3893385	BE	103.8	.522	6.25	100	15.00	9.00 @ 600
3893386	BF	105.9	.525	6.35	100	15.31	9.00 @ 630
3952826	BI	103.9	.522	6.25	100	15.60	9.00 @ 660
3893390	BW	105.9	.525	6.35	100	16.01	9.00 @ 700
3952827	BL	92.6	.539	5.65	130	12.77	9.00 @ 490
3952828	BM	92.6	.539	5.65	130	13.08	9.00 @ 530
3952829	BP	92.7	.539	5.65	130	13.46	9.00 @ 580
3952830	BQ	98.5	.550	5.95	130	13.85	9.00 @ 630
3952831	BR	98.6	.550	5.95	130	14.23	9.00 @ 680
3949004	BD	109.7	.637	6.45	200	14.00	9.00 @ 1000
3949006	BG	109.7	.637	6.45	200	14.30	9.00 @ 1060
3960651	OO	85.2	.553	5.25	160	11.94	9.00 @ 470
3960652	OQ	85.2	.553	5.25	160	12.19	9.00 @ 510
3974701	OZ	105.0	.592	6.25	160	13.63	9.00 @ 740
3974700	OY	111.8	.640	6.55	200	14.60	9.00 @ 1120
3987799	OG	95.0	.574	5.75	160	12.44	9.00 @ 550
3987800	OH	95.0	.574	5.75	160	12.69	9.00 @ 590
3987801	OJ	95.1	.574	5.75	160	12.94	9.00 @ 630

## SERVICE BRAKES, REGULAR PRODUCTION

Type	Duo-servo 4-wheel hydraulic; dual circuit hydraulic system with warning lamp, and reverse self adjusting feature.
Line pressure at 100 lb pedal load	805
Braking ratios	
Pedal	6.32
Hydraulic	4.29
Overall	27.11
Wheel cylinder area distribution (percent)	58.5 F; 41.5 R
Brake drum	
Diameter	9.5
Construction	Composite, web cast into rim
Material	
Web	HR steel
Rim	Cast iron alloy
Swept drum area	268.8
Brake lining	
Material	Compression molded asbestos composition wet rolled; grooved primary linings front and rear.
Length	
Primary, front and rear	9.01
Secondary, front and rear	9.75
Width	
Front linings	2.50
Rear linings	2.00
Thickness, minimum @ C/L	
Primary, front and rear	.17
Secondary, front and rear	.20
Method of attachment	Bonded
Total effective area	155.2
Master cylinder	
Piston diameter	1.00
Piston travel (with available pedal travel)	1.13
Wheel cylinders	
Piston diameter	
Front	1.125
Rear	.875
Foot pedal travel	7.10

## 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 on instrument panel to left of steering column.

## POWER BRAKES, RPO J50 (Same as regular production service brakes except as follows)

Type	Vacuum power unit added to assist master cylinder; integral system.
Pedal effort	Approximately 30 percent less than regular production service brakes at same deceleration rate
Braking ratios	
With regular production service brakes	
Pedal	3.4
Hydraulic	4.29
Overall	14.6
With front wheel disc brake system	See front wheel disc brakes
Master cylinder	
Piston travel (With available pedal travel)	1.42
Foot pedal travel	4.84

## FRONT WHEEL DISC BRAKES, RPO J52 (Regular production service brakes at rear wheels; power assist required)

Type	Hub mounted front discs, with self-adjusting single piston caliper units mounted on the steering knuckle, delay and metering valves provides balance between front and rear brakes
Braking ratios	
Pedal	3.4
Hydraulic	14.1
Overall	48.0
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	106.4
Swept disc and drum area	332.4
Disc lining	
Material	Wet compression molded asbestos composition.
Size	5.96x2.21x.41
Method of attachment	Riveted
Total effective area per lining	9.5
Gross lining area per lining	10.6
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	4.84

# BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Automatic transmission quadrant	Column 1-194	2
Automatic transmission position pattern	Floor console, 2-1445	1
Back-up	2-1156	32
Brake warning	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 Low beam 50W
Headlamp hi-beam indicator	1-194	2
Heater controls	1-1445	1
Instrument cluster	5-194	2
License plate, rear	1-67	4
Luggage compartment	1-1003	15
Oil pressure indicator	1-194	2
Parking		
Park		3
Turn	2-1157	32
Radio	1-1816	3
Side Marker - Front	2-194	2
Side Marker - Rear	2-194	2
Spot Lamp - Portable	1-4416	30W
Tail		
Tail		3
Stop and turn	2-1157	32
Temperature indicator	1-194	2
Underhood	1-93	15

# POWER TRAINS

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# POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS*			
			STD.	A/C	ZQ9 (a)	YD1 (b)
Turbo Thrift 250 250 Cubic Inch L-6 145 HP Standard	3-Speed (2.85:1 low)	All Models except Sta. Wag. & Pickups	3.08:1	NA	NA	NA
	Powerglide					
	3-Speed (2.85:1 low)	Station Wagons & Pickups	3.36:1	NA	NA	NA
	Powerglide					
Turbo Fire 307 307 Cubic Inch V-8 200 HP Standard	3-Speed (2.85:1 low)	All Models except Station Wagons & Pickups	3.08:1	3.08:1	NA	NA
	Powerglide					
	Turbo Hydra-Matic					
	3-Speed (2.85:1 low)	Station Wagons & Pickups	3.36:1	3.36:1	NA	NA
	Powerglide					
	Turbo Hydra-Matic					
● Turbo Fire 350 350 Cubic Inch V-8 245 HP RPO L65	4-Speed (2.54:1 low)	All Models	3.36:1	3.36:1	NA	NA
	Turbo Hydra-Matic					
Turbo-Fire 350 350 Cubic Inch V-8 270 HP RPO L48	3-Speed (2.54:1 low)	All Models ●	3.31:1	3.31:1	NA	NA
	4-Speed (2.52:1 low)					
	Turbo Hydra-Matic					
Turbo Jet 400 402 Cubic Inch V-8 300 HP RPO LS3	HD 3-Spd (2.42:1 low)	All Models ●	3.31:1	3.31:1	NA	NA
	4-Speed (2.52:1 low)					
	Turbo Hydra-Matic					
Turbo Jet 454 454 Cubic Inch V-8 365 HP RPO L55	HD 4-Spd (2.20:1 low)	Sport Coupe Convertible & Pickup	3.31:1	3.31:1	NA	NA
	Turbo Hydra-Matic					
Turbo Jet 454 454 Cubic Inch V-8 425 HP RPO LS6	HD 4-Spd (2.20:1 low)	Sport Coupe Convertible & Pickup	3.31:1	3.31:1	4.10:1	NA
	Turbo Hydra-Matic					

(a) ZQ9 - Performance option

(b) YD1 - Trailer option

\*Positraction required for 4.10:1; optional for all others.

## MULTIPLICATION FACTORS

### WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO
			1st	2nd	3rd	4th	Rev	
250 Cu. In. L-6 145 HP Standard	Single Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08
307 Cu. In. V-8 200 HP Standard	2-Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08
350 Cu. In. V-8 245 HP RPO L65	2-Barrel	4-Speed	8.53	6.05	4.84	3.36	8.53	3.36
350 Cu. In. V-8 270 HP RPO L48	4-Barrel	3-Speed	8.41	4.97	3.31		8.71	3.31
		4-Speed	8.41	5.96	4.77	3.31	8.41	3.31
402 Cu. In. V-8 300 HP RPO LS3	4-Barrel	H.D. 3-Speed	8.01	5.23	3.31		7.98	3.31
		4-Speed	8.34	6.22	4.83	3.31	8.57	3.31
454 Cu. In. V-8 365 HP RPO L55 and 425 HP RPO L56	4-Barrel	4-Speed	8.28	5.43	4.20	3.31	7.48	3.31

### WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
250 Cu. In. L-6 145 HP Standard	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
307 Cu. In. V-8 200 HP Standard	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
	Turbo 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-8 245 HP RPO L65	Turbo Hydra-Matic	Drive	13.54:1 - 2.56:1	2.56:1
		Low	13.54:1 - 6.45:1	
		Second	13.54:1 - 3.89:1	
		Reverse	10.37:1 - 4.94:1	
350 Cu. In. V-8 270 HP RPO L48	Turbo 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-8 300 HP RPO LS3	Turbo Hydra-Matic	Drive	14.22:1 - 2.73:1	2.73:1
		Low	14.22:1 - 6.77:1	
		Second	14.22:1 - 4.04:1	
		Reverse	11.93:1 - 5.68:1	
454 Cu. In. V-8 365 HP RPO L55 and 425 HP RPO L56	Turbo 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		L-6 OHV		V-8 OHV			
Piston Displacement (Cu.In.)		250	307	350	402	454	
Availability		Standard		L65	L48	LS3	LS5 LS6
Number of Cylinders		Six		Eight			
Bore (nominal)		3.875		4.00	4.126	4.251	
Stroke (nominal)		3.53	3.25	3.48	3.76	4.00	
Compression Ratio				8.5:1			9.00:1
Taxable (SAE) Horsepower		36.0	48.0	51.2	54.5	57.8	
Firing Order		1-5-3-6-2-4		1-8-4-3-6-5-7-2			
Idling Speed	3-Speed & 4-Speed (in neutral)	550		600			700
	Powerglide (in drive)	500					
	Turbo Hydra-Matic (in drive)			600			700
Comp. Press. (PSI) @ Cranking Speed, Engine Hot		140	150			160	
Power Plant	Front	Two, combination compression and shear type					
Mountings	Rear	One, shear type					
Measurements	Fan to rear of engine block	35.27	31.13	30.69	30.16	33.97	
	Top of air cleaner to bottom of oil pan	27.44	29.49	29.29	26.79	27.62	
	Width - including air cleaner	30.15	27.34	27.34	27.97	30.00	

## ADVERTISED ENGINE RATING

Engine Designation	Turbo-Thrift 250 L-6 145 HP	Turbo-Fire 307 V-8 200 HP	Turbo-Fire 350 V-8 245 HP	Turbo-Fire 350 V-8 300 HP	Turbo-Jet 400 V-8 330 HP	Turbo-Jet 454 V-8 365 HP	Turbo-Jet 454 V-8 425 HP
Availability	Standard	Standard	RPO L65	RPO L48	RPO LS3	RPO LS5	RPO LS6
Carburetor	Single Bbl.	Two Bbl.	Two Bbl.	Four Bbl.	Four Bbl.	Four Bbl.	Four Bbl.
Gross Brake HP @ RPM	145 @ 4200	200 @ 4600	245 @ 4800	270 @ 4800	300 @ 4800	365 @ 4800	425 @ 5600
Gross Torque - RPM (lb-ft)	230 @ 1600	300 @ 2400	350 @ 2800	360 @ 3200	400 @ 3200	465 @ 3200	475 @ 4000
Net Brake HP @ RPM	110 @ 3800	140 @ 4400	165 @ 4000	175 @ 4000	260 @ 4400	285 @ 4000	325 @ 5600
Gross Torque @ RPM (lb-ft)	185 @ 1600	235 @ 2400	280 @ 2400	290 @ 2400	345 @ 3200	390 @ 3200	390 @ 3600

# ENGINE SPEED AND PISTON TRAVEL

## TURBO-THRIFT 250 L-6 ENGINE

Transmission	3-Speed		Powerglide
Rear Axle Ratio	3.08:1 (a)		
Tire Size	E78 x 14B (b)		
Crankshaft Revolutions per Mile	2460.9		
Crankshaft RPM @ 1 MPH	Low	116.9	74.6
	Second	68.9	
	Third	41.0	41.0 (direct)
	Reverse	121.0	74.6
Piston Travel (ft/mile)	1447.8		

(a) 3.36:1 on Station Wagons & Pickups

(b) G78 x 14B or D on Station Wagons

## TURBO-FIRE 307 V-8 ENGINE

Transmission	3-Speed	Powerglide	Turbo Hydra-Matic
Rear Axle Ratio	3.08:1 (a)	3.08:1 (a)	2.73:1 (b)
Tire Size	E78 x 14B (c)		
Crankshaft Revolutions per Mile	2460.9	2460.9	2181.3
Crankshaft RPM @ 1 MPH	Low	116.9	91.6
	Second	68.9	55.3
	Third	41.0	36.3 (direct)
	Reverse	121.0	70.2
Piston Travel (ft/mile)	1333.0	1333.0	1181.5

(a) 3.36:1 on Station Wagons & Sedan Pickups

(b) 3.08:1 on Station Wagons & Sedan Pickups

(c) G78 x 14B on Station Wagons

## TURBO-FIRE 350 V-8 ENGINES (RPO L65 & L48)

Transmission	RPO L65		RPO L48		
	4-Speed	Trb/Hyd	3-Speed	4-Speed	Trb/Hyd
Rear Axle Ratio	3.36:1	2.56:1	3.31:1		
Tire Size	E78 X 14B (a)				
Crankshaft Revolutions per Mile	2684.6	2045.4	2644.7	2644.7	2181.3
Crankshaft RPM @ 1 MPH	Low	113.6	85.9	112.0	91.6
	Second	80.5	51.8	66.1	55.3
	Third	64.4	34.1	44.1	36.4 (direct)
	Fourth	44.7		44.1	
	Reverse	113.6	65.8	115.9	70.2
Piston Travel (ft/mile)	1557.1	1186.3	1533.4	1533.4	1265.1

(a) G78 x 14B or D on Station Wagons; F78 x 14B on Sedan Pickups

## TURBO-JET 400 V-8 ENGINE (402 Cu.In. RPO LS3)

Transmission	3-Speed	4-Speed	Trb/Hyd
Rear Axle Ratio	3.31:1		
Tire Size	F78 x 14B		
Crankshaft Revolutions per Mile	2598.3		2143.1
Crankshaft RPM @ 1 MPH	Low	104.8	104.4
	Second	68.4	52.9
	Third	43.3	35.7 (direct)
	Fourth		
	Reverse	104.4	74.3
Piston Travel (ft/mile)	1628.3		1343.0

(a) G78 x 14B or D on Station Wagons

## TURBO-JET 454 V-8 ENGINES (RPO LS5 & LS6)

Transmission	4-Speed	Turbo Hydra-Matic
Rear Axle Ratio	3.31:1	
Tire Size	F60 x 15B	
Crankshaft Revolutions per mile	2651.3	
Crankshaft RPM @ 1 MPH	Low	109.6
	Second	65.4
	Third	44.1 (direct)
	Fourth	
	Reverse	91.9
Piston Travel (ft/mile)	1767.5	

# VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 250 CU.IN. 145 HP	BASE 307 CU.IN. 200 HP	RPO L65 350 CU.IN. 245 HP	RPO L48 350 CU.IN. 270 HP	RPO LS3 402 CU.IN. 300 HP	RPO LS5 454 CU.IN. 365 HP	RPO LS5 454 CU.IN. 425 HP
MODEL	13569	13669	13669	13669	13637	13637	13637

## 3-SPEED TRANSMISSION

Performance Weight (pounds)	3948	4078		4117	4297		
Pounds per Gross Horsepower	27.23	20.39		15.25	14.32		
Pounds per Cu.In. Displacement	15.79	13.28		11.76	10.69		
Gross HP per Cu.In. Displacement	.580	.651		.771	.746		
Power Displacement (cu.ft./mile)	178.02	218.60		267.84	302.23		
Displacement Factor (cu.ft./ton mile)	90.4	107.16		130.01	141.23		

## 4-SPEED TRANSMISSION

Performance Weight (pounds)			4122	4135	4297	4403	4370
Pounds per Gross Horsepower			16.82	15.31	14.32	12.06	10.28
Pounds per Cu.In. Displacement			11.78	11.81	10.69	9.70	9.63
Gross HP per Cu.In. Displacement			.700	.771	.746	.804	.936
Power Displacement (cu.ft./mile)			271.88	267.84	302.23	348.29	348.29
Displacement Factor (cu.ft./ton mile)			131.98	129.39	141.28	173.28	159.04

## TURBO HYDRA-MATIC

Performance Weight (pounds)		4107	4133	4142	4325	4455	4415
Pounds per Gross Horsepower		20.54	16.87	15.34	14.42	12.20	10.39
Pounds per Cu.In. Displacement		13.38	11.81	11.83	10.75	9.70	9.72
Gross HP per Cu.In. Displacement		.651	.700	.771	.746	.804	.936
Power Displacement (cu.ft./mile)		194.65	207.14	220.91	249.28	348.29	348.29
Displacement Factor (cu.ft./ton mile)		94.95	100.55	106.72	115.41	156.18	157.60

## POWERGLIDE

Performance Weight (pounds)	3940	4086					
Pounds per Gross Horsepower	27.17	20.43					
Pounds per Cu.In. Displacement	15.76	13.31					
Gross HP per Cu.In. Displacement	.580	.651					
Power Displacement (cu.ft./mile)	178.02	218.60					
Displacement Factor (cu.ft./ton mile)	90.4	107.16					

## GLOSSARY

Performance Weight	Curb Weight plus 600 Lb (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	
L6-250 Cu.In.	3.8745-3.8775
V8-307 Cu.In.	3.8745-3.8775
V8-350 Cu.In.	3.9995-4.0025
V8-402 Cu.In.	4.1246-4.1274
V8-454 Cu.In.	4.2496-4.2524
Bearing Caps (Number, material & attachment)	
L6-250 Cu.In.	7, cast iron, 2-bolt
V8-307 & 350 Cu.In.	5, cast iron, 2-bolt
V8-402 & 454 (LS5)	5, cast iron, 2-bolt
V8-454 (LS6)	5, cast iron, 4-bolt
Water Jacket	Full length around each cylinder
Bore Spacing (Centerline to Centerline)	
L6-250 Cu.In.	4.4
V8-307 & 350 Cu.In.	4.4
V8-402 & 454 Cu.In.	4.84

## CYLINDER HEAD

Material	High chrome cast alloy iron
Bolt No. & Size	
L6-250 Cu.In.	10; .500 dia. 13 threads/in.
V8-307 & 350 Cu.In.	34; .4375 dia. 14 threads/in.
V8-402 & 454 Cu.In.	32; .4375 dia. 14 threads/in.

## COMBUSTION CHAMBER VOLUME

(Total chamber volume of assembled engine with piston at top center)	
L6-250 Cu.In.	5.73 Cu.In.
V8-307 Cu.In.	5.32 Cu.In.
V8-350 Cu.In.	6.08 Cu.In.
V8-402 Cu.In.	6.91 Cu.In.
V8-454 (LS5) Cu.In.	7.79 Cu.In.
V8-454 (LS6) Cu.In.	7.27 Cu.In.

## INLET MANIFOLD

Material	Cast alloy iron
Type	
L6 engine	3 port, rectangular section
V8 engines	8 port, double deck

## EXHAUST MANIFOLD

Material	Cast alloy iron
Type	
L6-250 Cu.In.	4 port, center downtake
V8-307 & 350 Cu.In.	Dual, 4 port, rear downtake
V8-402 & 454 Cu.In.	Dual, 4 port, rear downtake
Outlet Diameter	
L6-250, V8-307 & 350 Cu.In.	2.0
V8-402 & 454 Cu.In.	2.5

## CRANKSHAFT

Material	
L6-250 Cu.In.	Cast nodular iron
V8-307 & 350 Cu.In.	Cast nodular iron
V8-402 Cu.In.	Cast nodular iron
V8-454 Cu.In.	Forged steel
End Play	
L6-250 Cu.In.	.002-.006
V8-307 & 350 Cu.In.	.002-.006
V8-402 & 454 Cu.In.	.006-.010
Counter Weights	
L6-250 Cu.In.	12
V8-307, 350, 402 & 454 Cu.In.	6
Crank Arm Length	
L6-250 Cu.In.	1.765
V8-307 Cu.In.	1.625
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	
L6	Steel; helical cut
V8	Steel; sprocket & chain
Pulley Pitch Diameter	6.64

## MAIN BEARINGS

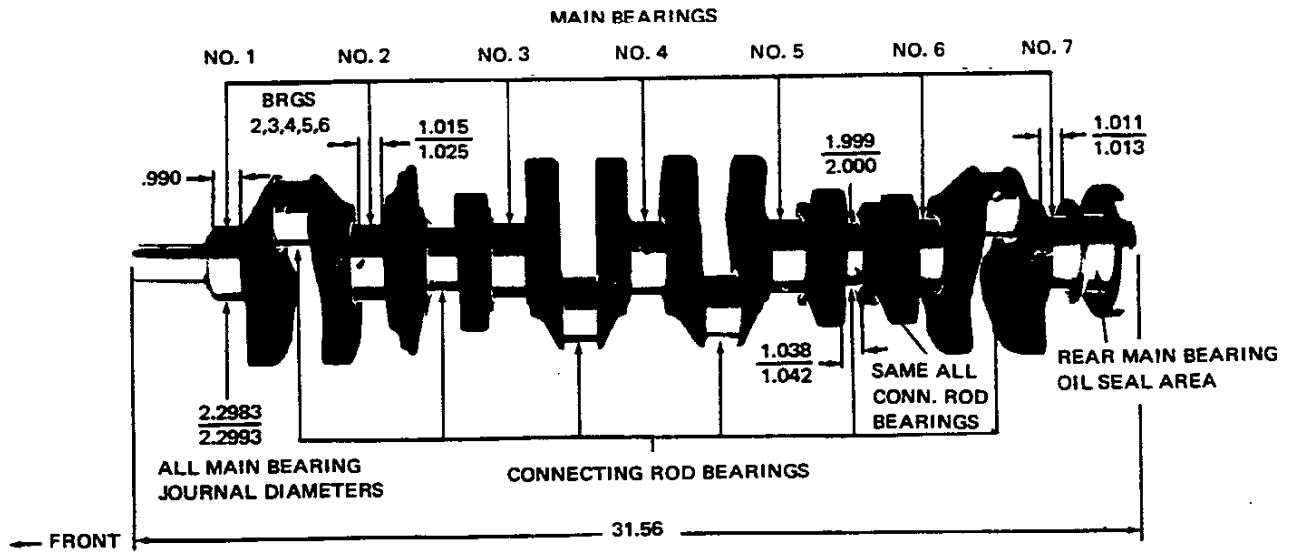
Material	Steel backed insert; (copper lead alloy or premium aluminum lining selected for specific engine application)
Type	Precision removable
Thrust Against Bearing No.	L6-No. 7; V8-No. 5
Clearance	
L6-250 Cu.In.	.0003-.0029
V8-307 & 350 Cu.In.	(No. 1) .0008-.0020; (No. 2-3-4) .0011-.0023; (No. 5) .0017-.0033
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
L6-250 Cu.In.			
Bearing No. 1-6	2.3004	.752	1.7299
Bearing No. 7	2.3004	.760	1.7483
V8-307 & 350 Cu.In.			
Bearing No. 1-4	2.4502	.752	1.8425
Bearing No. 5	2.4506	1.177	2.8846
V8-402 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
V8-454 Cu.In.			
Bearing No. 1	2.7509	.992	2.7289
Bearing No. 2, 3 & 4	2.7505	.992	2.7285
Bearing No. 5	2.7505	1.252	3.4450

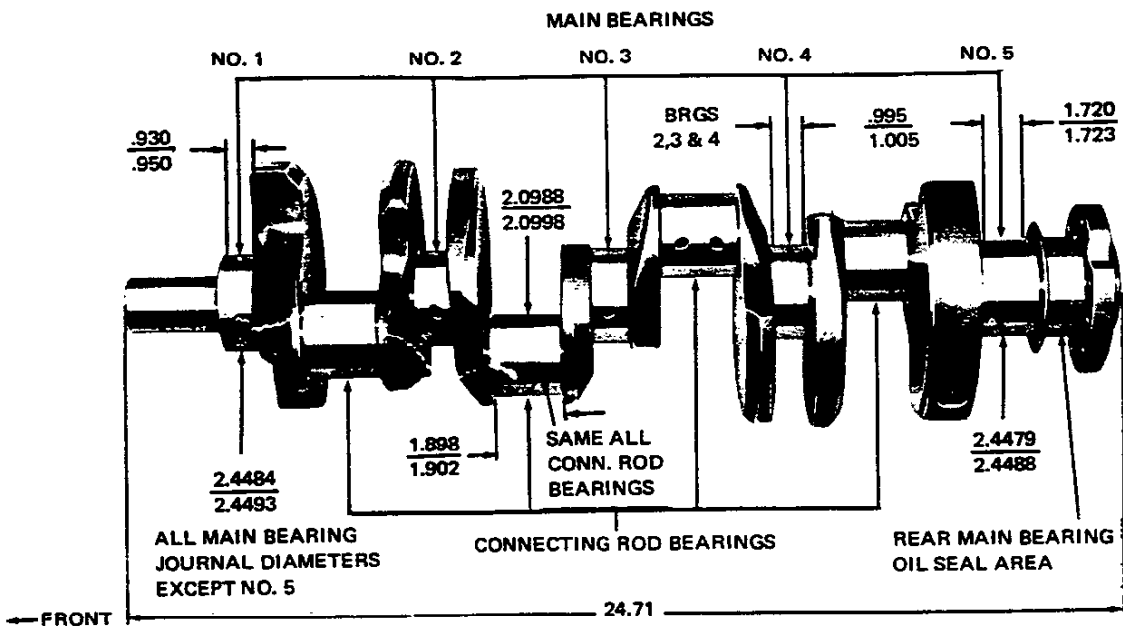
# PRINCIPAL COMPONENTS

## CRANKSHAFTS AND BEARINGS

### 250 CUBIC INCH SIX CYLINDER ENGINE



### 307 and 350 CUBIC INCH V-8 ENGINES



# PRINCIPAL COMPONENTS

## CAMSHAFT

Material	Cast alloy iron
Drive	
L6	Gear; bakelite and fabric composition
V8	Sprocket & chain; steel
Lobe Lift	
L6-250 Cu.In.	.2217 Inlet & Exhaust
V8-307 & 350 Cu.In.	.2600 Inlet; .2733 Exhaust
V8-402 Cu.In.	.2343 Inlet; .2529 Exhaust
V8-454 (LS5) Cu.In.	.2714 Inlet; .2824 Exhaust
V8-454 (LS6) Cu.In.	.3037 Inlet & Exhaust
Camshaft Bearing	Steel backed babbit

## VALVE TRAIN

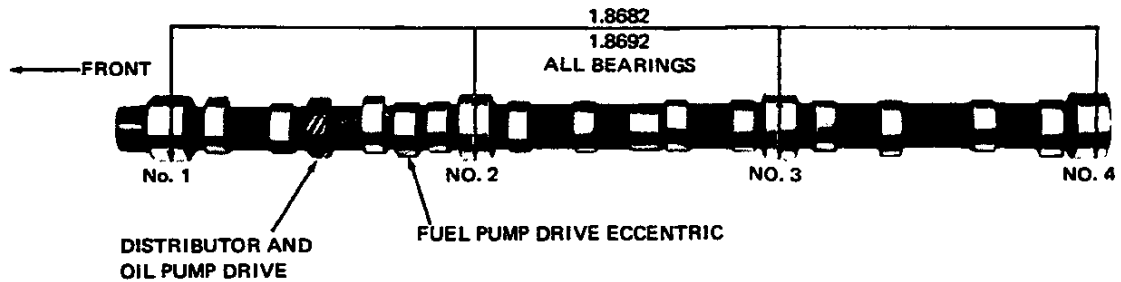
Type	Individually mounted, overhead rocker arms, push rod actuated
Rocker Arms	Stamped steel
Ratio	
L6-250 Cu.In.	1.75:1
V8-307 & 350 Cu.In.	1.50:1
V8-402 & 454 Cu.In.	1.70:1
Push Rods	
Type	Hollow steel
Ends	
L6, V8-307 & 350 Cu.In.	Hardened
V8-402 & 454 Cu.In.	Hardened steel inserts

## VALVE SPRINGS

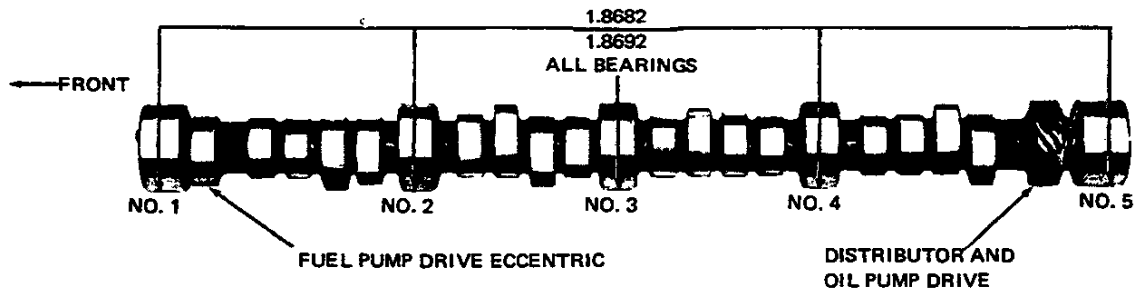
Diameter	
L6-250 Cu.In.	.872-.888
V8-307 & 350 Cu.In.	.868-.884
V8-402 & 454 Cu.In.	1.080-1.094
Installed Length (lb. @ in.)	
Valves closed	
L6-250 Cu.In.	56-64 @ 1.66
V8-307 & 350 Cu.In.	76-84 @ 1.70
V8-402 & 454 Cu.In.	
Outer spring	69-81 @ 1.88
Inner spring	26-34 @ 1.78
Valves opened	
L6-250 Cu.In.	180-192 @ 1.27
V8-307 & 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	
L6-250 Cu.In.	1.90
V8-307 & 350 Cu.In.	2.03
V8-402 & 454 Cu.In.	
Outer spring	2.12
Inner spring	2.06
Valve Spring Damper	
L6-250 Cu.In.	None
V8-307 & 350 Cu.In.	Flat steel, 4 coils

## CAMSHAFT AND BEARINGS

### 250 CUBIC INCH L-6 ENGINE



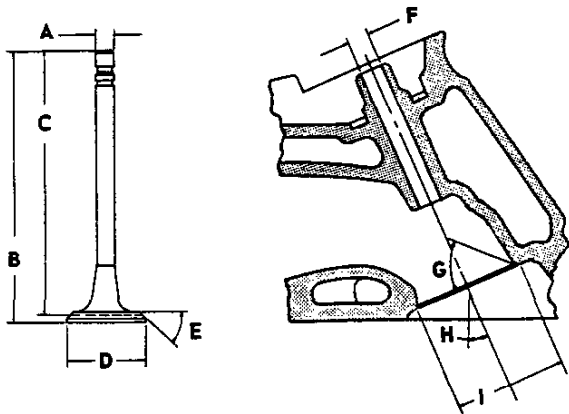
### 307 and 350 CUBIC INCH V-8 ENGINES



# PRINCIPAL COMPONENTS

## INLET VALVES

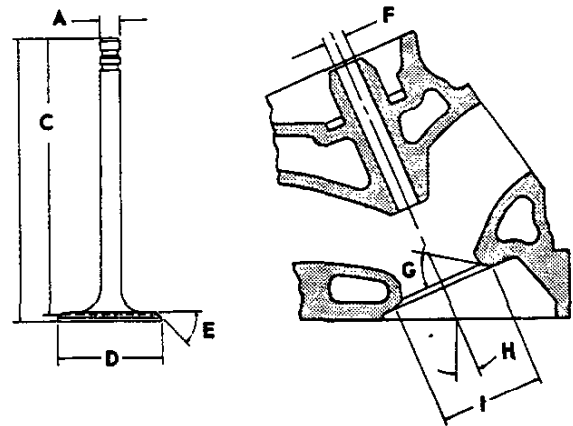
Material	Alloy steel
Coating	
L6-250 Cu.In.	Aluminized face
V8-307 & 350 Cu.In.	None
V8-402 & 454 Cu.In.	Face and head aluminized
Valve Guide Inserts (V8-402 & 454)	Cast alloy iron



<b>A - Stem Diameter</b>	
L6-250 Cu. In.	.3410-.3417
V8-307 & 350 Cu. In.	.3410-.3417
V8-402 & 454 Cu. In.	.3715-.3722
<b>B - Overall Length</b>	
L6-250 Cu. In.	4.902-4.922
V8-307 Cu. In.	4.902-4.922
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
<b>C - Gage Length</b>	
L6-250 Cu. In.	4.785-4.795
V8-307 & 350 Cu. In.	4.785-4.795
V8-402 & 454 Cu. In.	5.115-5.125
<b>D - Overall Head Diameter</b>	
L6-250 Cu. In.	1.715-1.725
V8-307 Cu. In.	1.715-1.725
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
<b>E - Angle of Face</b>	45°
<b>F - Guide Diameter</b>	
L6-250 Cu. In.	.3427-.3437
V8-307 & 350 Cu. In.	.3427-.3437
V8-402 & 454 Cu. In.	.3732-.3742
<b>G - Angle of Seat</b>	46°
<b>H - Valve Angle</b>	
L6-250 Cu. In.	9°
V8-307 & 350 Cu. In.	23°
V8-402 & 454 Cu. In.	4°
<b>I - Valve Seat (cutter) Diameter</b>	
L6-250 & V8-307 Cu. In.	1.770-1.790
V8-350 Cu. In.	1.990-2.010
V8-402 & 454 Cu. In.	2.150

## EXHAUST VALVES

Material	High alloy steel
Coating	
L6-250 Cu.In.	Aluminized face
V8-307 & 350 Cu.In.	Aluminized face
V8-402 & 454 Cu.In.	Face and head aluminized
Valve Guide Inserts (V8-402 & 454)	Cast alloy iron



<b>A - Stem Diameter</b>	
L6-250 Cu. In.	.3410-.3417
V8-307 & 350 Cu. In.	.3410-.3417
V8-402 & 454 Cu. In.	.3713-.3720
<b>B - Overall Length</b>	
L6-250 Cu. In.	4.913-4.933
V8-307 & 350 Cu. In.	4.913-4.933
V8-402 Cu. In.	5.345-5.365
V8-454 Cu. In.	5.345-5.365
<b>C - Gage Length</b>	
L6-250 Cu. In.	4.781-4.791
V8-307 & 350 Cu. In.	4.781-4.791
V8-402 & 454 Cu. In.	5.235-5.245
<b>D - Overall Head Diameter</b>	
L6-250 Cu. In.	1.495-1.505
V8-307 & 350 Cu. In.	1.495-1.505
V8-402 Cu. In.	1.715-1.725
V8-454 (LS5) Cu. In.	1.715-1.725
V8-454 (LS6) Cu. In.	1.875-1.885
<b>E - Angle of Face</b>	45°
<b>F - Guide Diameter</b>	
L6-250 Cu. In.	.3427-.3437
V8-307 & 350 Cu. In.	.3427-.3437
V8-402 & 454 Cu. In.	.3732-.3742
<b>G - Angle of Seat</b>	46°
<b>H - Valve Angle</b>	
L6-250 Cu. In.	9°
V8-307 & 350 Cu. In.	23°
V8-402 & 454 Cu. In.	4°
<b>I - Valve Seat (cutter) Diameter</b>	
L6-250 Cu. In.	1.550-1.570
V8-307 & 350 Cu. In.	1.550-1.570
V8-402 Cu. In.	1.625
V8-454 Cu. In.	1.625

# PRINCIPAL COMPONENTS

## VALVE LIFT

L6-250 Cu. In. . . . .	.3880 Inlet & Exhaust
V8-307 & 350 Cu. In. . . . .	.3900 Inlet; .4100 Exhaust
V8-402 Cu. In. . . . .	.3983 Inlet; .4300 Exhaust
V8-454 (LS5) Cu. In. . . . .	.4614 Inlet; .4800 Exhaust
V8-454 (LS6) Cu. In. . . . .	.5197 Inlet & Exhaust

## VALVE TIMING (Crankshaft Degrees)

L6-250 Cu. In.	Excluding Ramps	Including Ramps
<b>Inlet Valve (Zero lash)</b>		
Opens - BTC	16°	62°
Closes - ABC	48°	94°
Duration	244°	336°
<b>Exhaust Valve (Zero lash)</b>		
Opens - BBC	46°30'	92°30'
Closes - ATC	17°30'	63°30'
Duration	244°	336°
V8-307 & 350 Cu. In.	Excluding Ramps	Including Ramps
<b>Inlet Valve (Zero lash)</b>		
Opens - BTC	28°	38°
Closes - ABC	72°	92°
Duration	280°	310°
<b>Exhaust Valve (Zero lash)</b>		
Opens - BBC	78°	88°
Closes - ATC	30°	52°
Duration	288°	320°
V8-402 Cu. In.	Excluding Ramps	Including Ramps
<b>Inlet Valve (Zero lash)</b>		
Opens - BTC	28°	40°
Closes - ABC	78°	102°
Duration	286°	322°
<b>Exhaust Valve (Zero lash)</b>		
Opens - BBC	75°	87°
Closes - ATC	31°	55°
Duration	286°	322°
V8-454 (LS5) Cu. In.	Excluding Ramps	
<b>Inlet Valve (Zero lash)</b>		
Opens - BTC	56°	
Closes - ABC	114°	
Duration	350°	
<b>Exhaust Valve (Zero lash) *</b>		
Opens - BBC	110°	
Closes - ATC	62°	
Duration	352°	
V8-454 (LS6) Cu. In.	Excluding Ramps	
<b>Inlet Valve (.024 lash)</b>		
Opens - BTC	44°	
Closes - ABC	92°	
Duration	316°	
<b>Exhaust Valve (.028 lash)</b>		
Opens - BBC	86°	
Closes - ATC	36°	
Duration	302°	

## PISTONS

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

### Head Type

L6-250 Cu. In. . . . . Flat, notched  
V8-307 Cu. In. . . . . Sump  
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

L6-250 Cu. In. . . . . .0245-.0335  
V8-307 & 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

L6-250 Cu. In. . . . . .0005-.0011  
V8-307 Cu. In. . . . . .0005-.0015  
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

L6-250 Cu. In. . . . . .2153-.2218  
V8-307 Cu. In. . . . . .2113-.2178  
V8-350 Cu. In. . . . . .2218-.2284  
V8-402 Cu. In. . . . . .2328-.2392  
V8-454 (LS5) Cu. In. . . . . .2348-.2412  
V8-454 (LS6) Cu. In. . . . . .2375-.2435

### Oil Ring Groove Depth

L6-250 Cu. In. . . . . .2093-.2158  
V8-307 Cu. In. . . . . .2053-.2118  
V8-350 Cu. In. . . . . .2038-.2103  
V8-402 & 454 (LS5) Cu. In. . . . . .2183-.2247  
V8-454 (LS6) Cu. In. . . . . .2160-.2170

### Pin Bore Offset

. . . . . .055-.065

### Compression Height

L6-250 Cu. In. . . . . 1.658-1.662  
V8-307 Cu. In. . . . . 1.673-1.677  
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. . . . . 1.643-1.651

## PISTON PINS

Material . . . . . Chromium steel

### Length

L6-250, V8-307 & 350 Cu. In. . . . . 2.990-3.010  
V8-402 & 454 Cu. In. . . . . 2.930-2.950

### Diameter

L6-250, V8-307 & 350 Cu. In. . . . . .9270-.9273  
V8-402 & 454 Cu. In. . . . . .9895-.9898

### Clearance in Piston

L6-250, V8-307 & 350 Cu. In. . . . . .00015-.00025  
V8-402 Cu. In. . . . . .00025-.00035  
V8-454 Cu. In. . . . . .00030-.00040



# PRINCIPAL COMPONENTS

## COMPRESSION RINGS - UPPER

Material	Cast alloy iron
Type	Straight edge inside of ring
Face	Barrel
Coating	
L6-250 Cu.In.	Chrome plate face
V8-307 & 350 Cu.In.	Chrome plate face
V8-402 & 454 Cu.In.	Molybdenum inlay
Width	
L6-250 Cu.In.	.0775-.0780
V8-307 & 350 Cu.In.	.0775-.0780
V8-402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
L6-250 Cu.In.	.184-.194
V8-307 Cu.In.	.184-.194
V8-350 Cu.In.	.190-.200
V8-402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212

## COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis for L6-250 & V8-350; 50 degrees for V8-402; 28-52 degrees for V8-454)
Face	Tapered
Coating	
L6-250 Cu.In.	Wear resistant
V8-307, 350 & 454 Cu.In.	Wear resistant
V8-402 Cu.In.	Chrome plated
Width	
L6-250 Cu.In.	.0770-.0780
V8-307 Cu.In.	.0770-.0780
V8-350 Cu.In.	.0770-.0775
V8-402 Cu.In.	.0770-.0780
V8-454 Cu.In.	.0770-.0775
Wall Thickness	
L6-250 Cu.In.	.184-.194
V8-307 Cu.In.	.184-.194
V8-350 Cu.In.	.190-.200
V8-402 Cu.In.	.196-.206
V8-454 Cu.In.	.202-.212
Gap	
L6-250 Cu.In.	.010-.020
V8-307 Cu.In.	.010-.020
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)	
L6-250 Cu.In.	.1870-.1890
V8-307 & 350 Cu.In.	.1870-.1890
V8-402 & 454 Cu.In.	.1870-.1890
Wall Thickness	
L6-250 Cu.In.	.152-.158
V8-307 & 350 Cu.In.	.150-.156
V8-402 & 454 Cu.In.	.137-.143
Gap	
L6-250 Cu.In.	.015-.055
V8-307 & 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)	
L6-250 Cu.In.	5.695-5.705
V8-307 & 350 Cu.In.	5.695-5.705
V8-402 & 454 Cu.In.	6.130-6.140

## CONNECTING ROD BEARINGS

Material	
L6-250 & V8-307 Cu.In.	Copper lead alloy or sintered copper nickel backed babbit on steel
V8-350 Cu.In.	Premium aluminum
V8-402 & 454 Cu.In.	Premium aluminum
Type	Precision removable
Clearance	
L6-250 Cu.In.	.0007-.0027
V8-307 & 350 Cu.In.	.0013-.0035
V8-402 & 454 Cu.In.	.0009-.0029
Theoretical I.D.	
L6-250 Cu.In.	2.0017
V8-307 & 350 Cu.In.	2.1019
V8-402 & 454 Cu.In.	2.2012
Effective Length	
L6-250 Cu.In.	.807
V8-307 & 350 Cu.In.	.797
V8-402 & 454 Cu.In.	.847
End Play	
L6-250 Cu.In.	.009-.014
V8-307 & 350 Cu.In.	.008-.014
V8-402 & 454 Cu.In.	.015-.023

## FUEL TANK

Capacity (Gal)	
All models except S/Wags. . . . .	19 (approximately)
Station Wagons . . . . .	18 (approximately)
Fuel Tank Location . . . . .	Behind rear axle
Filler Location	
Station Wagons & El Camino . . . . .	Left rear quarter panel
Remaining Models . . . . .	Behind hinged rear license plate

## FUEL FILTERS, DUAL

In Fuel Tank . . . . .	Mesh strainer
In Carburetor Inlet . . . . .	Paper (sintered bronze V8-307)

## FUEL PUMP ASSEMBLY

Type . . . . .	Mechanical; diaphragm
Drive . . . . .	Camshaft, eccentric
Location . . . . .	Right side front of engine
Pressure Range (shut off pressure at 1800 RPM)	
L6-250 Cu.In. . . . .	4.00-5.00 PSI at pump outlet
V8-307 Cu.In. . . . .	5.50-7.50 PSI at pump outlet
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	
L6-250 Cu.In. . . . .	Single air horn
V8-350 & 402 Cu.In. . . . .	Single air horn
V8-454 Cu.In. . . . .	Dual air horns, chrome cover
Diameter	
L6-250 Cu.In. . . . .	12.62
V8-307 Cu.In. . . . .	12.62
V8-350 Cu.In. . . . .	15.48
V8-402 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	
L6-250 Cu.In. . . . .	Rochester, 1-barrel, Monojet
V8-307 Cu.In. . . . .	Rochester, 2-bbl., downdraft
V8-350 (L65) Cu.In. . . . .	Rochester, 2-bbl., downdraft
V8-350 (L48) Cu.In. . . . .	Rochester, 4-bbl., Quadrajct
V8-402 & 454 (LS5) Cu.In. . . . .	Rochester, 4-bbl., Quadrajct
V8-454 (LS6) Cu.In. . . . .	Holley, 4-barrel
SAE Flange Type	
L6-250 Cu.In. . . . .	1.50
V8-307 Cu.In. . . . .	1.25
V8-350 Cu.In. . . . .	1.50
V8-402 & 454 Cu.In. . . . .	1.50
Throttle Bore	
L6-250 Cu.In. . . . .	1.69
V8-307 Cu.In. . . . .	1.44
V8-350 (L65) Cu.In. . . . .	1.69
V8-350 (L48) Cu.In. . . . .	
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 halfway between closed and open
Venturi Diameter	
L6-250 Cu.In. . . . .	1.31
V8-307 Cu.In. . . . .	1.09
V8-350 (L65) Cu.In. . . . .	1.09
V8-350 (L48) Cu.In. . . . .	
Primary . . . . .	1.09
*Secondary . . . . .	Air valve
V8-402 & 454 (LS5) Cu.In. . . . .	
Primary . . . . .	1.09
Secondary . . . . .	Air valve
V8-454 (LS6) Cu.In. . . . .	
Primary . . . . .	1.38
Secondary . . . . .	2.25

## CHOKE

Type . . . . .	Automatic
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# EXHAUST AND VENTILATION SYSTEM

## TYPE

L6-250 Cu.In. . . . .	Single
V8-307 & 350 Cu.In. . . . .	Single
	with crossover pipes
V8-402 & 454 Cu.In. . . . .	Dual
	with resonators

## MUFFLERS

Type . . . . .	Oval, reverse flow
Construction . . . . .	Heads and body joined
	by rolled lock seam construction

### Head

L6-250 Cu.In. . . . .	.048 sheet steel, aluminized
V8-307 Cu.In. . . . .	.048 sheet steel, aluminized
V8-350 Cu.In. . . . .	.054 sheet steel, aluminized
V8-402 & 454 Cu.In. . . . .	
Left hand . . . . .	.054 sheet steel, aluminized
Right hand . . . . .	.060 stainless steel

### Shell

L6-250 Cu.In. . . . .	.036 sheet steel, zinc coated
V8-307 Cu.In. . . . .	.036 sheet steel, zinc coated
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

L6-250 Cu.In. . . . .	
No. 1 & 4 . . . . .	.048 sheet steel, zinc coated
No. 2 & 3 . . . . .	.036 sheet steel, zinc coated
V8-307 & 350 Cu.In. . . . .	
No. 1 & 4 . . . . .	.048 sheet steel, zinc coated
No. 2 & 3 . . . . .	.036 sheet steel, zinc coated
V8-402 & 454 Cu.In. . . . .	
Left hand . . . . .	
No. 1 & 4 . . . . .	.048 sheet steel, zinc coated
No. 2 & 3 . . . . .	.036 sheet steel, zinc coated
Right hand . . . . .	
No. 1, 2, 3 & 4 . . . . .	.036 stainless steel

### Length, Body

L6-250 Cu.In. . . . .	21.62
V8-307, 350, 402 & 454 Cu.In. . . . .	21.25
Width (I.D.) . . . . .	9.25
Height (I.D.) . . . . .	5.00

## EXHAUST CROSSOVER PIPE (V8-307 & 350 Cu.In.)

Dimensions (O.D.) . . . . .	2.00
Wall Thickness . . . . .	.072-.092 laminated

## EXHAUST PIPE

Dimensions (O.D.) . . . . .	
L6-250 Cu.In. . . . .	2.00
V8-307 Cu.In. . . . .	2.00
V8-350 Cu.In. . . . .	2.50
V8-402 & 454 Cu.In. . . . .	2.50
Wall Thickness . . . . .	
L6-250 Cu.In. . . . .	.057-.071
V8-307 Cu.In. . . . .	.072-.092 laminated
V8-350 Cu.In. . . . .	.072-.092 laminated
V8-402 & 454 Cu.In. . . . .	.072-.092 laminated

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

Type . . . . .	Straight through
Cover . . . . .	.042
Heads . . . . .	.048

## TAIL PIPES

Dimensions (O.D.) . . . . .	
L6-250 Cu.In. . . . .	1.875
V8-307 & 350 Cu.In. . . . .	1.875
V8-402 & 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.

## GENERAL

Type	Controlled full pressure
Main Bearings	Pressure
Connecting Rods	Pressure
Piston Pins	Splash
Cylinder Walls	
L6	Main and conn. rod bearing throw off
V8	Pressure, jet cross sprayed
Camshaft Bearings	Pressure
Valve Lifters	Pressure
Rocker Arms	Pressure
Timing Gears	
L6	Nozzle sprayed
V8	Centrifugally oiled from camshaft bearing

## Oil Pressure Sending Unit

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

## Oil Filler

Cap	Positive seal
Location	
L6-250 Cu.In.	Forward end of rocker cover
V8-307 & 350 Cu.In.	Rearward of left rocker cover
V8-402 & 454 Cu.In.	Top center of right rocker cover

## OIL PAN CAPACITIES (Quarts)

Refill	
L6 Engine	4
V8 Engines	4
Refill With Filter Change	
L6 Engine	4.5
V8 Engines	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	
L6-250 Cu.In.	40 PSI @ 2000 RPM
V8-307 & 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)	
L6-250 Cu.In.	4.3 @ 2000
V8-307 & 350 Cu.In.	4.3 @ 2000
V8-402 & 454 Cu.In.	6.0 @ 2000

## OIL FILTER

Type	Full flow, throw away canister
Location	
L6 Engine	Right side front of engine
V8 Engines	Left rear side of engine
Capacity	
L6 Engine	One pint
V8 Engines	One pint
Bypass Valve	Opens between 9 to 11 PSI drop in pressure

## OIL DIPSTICK-LOCATION

L6-250 Cu.In.	Right side, rear of engine block
V8-307 & 350 Cu.In.	Left side, rear of engine block
V8-402 & 454 Cu.In.	Right side, center direct to oil pan

## OIL PAN DRAIN PLUG

Type	Hex head
Location	
L6 Engine	Front lower face of oil pan sump
V8 Engines	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

# COOLING SYSTEM

## GENERAL

Type	Liquid, pressurized
Capacity with Heater (Standard Equipment)	
L6-250 Cu.In.	12 qts.
V8-307 Cu.In.	15 qts.
V8-350 Cu.In.	16 qts.
V8-402 & 454 (LS5) Cu.In.	23 qts.
V8-454 (LS6) Cu.In.	22 qts.

## RADIATOR

Make and Type	Harrison, tube and center
Core constant and thickness	
Distance between fins	
L6-250 Cu.In.	.28 Syn., .25 Auto.
V8-307 Cu.In.	.18 Syn., .16 Auto.
V8-350 Cu.In. (L65)	.25 Syn., .22 Auto.
V8-350 Cu.In. (L48)	.22 Syn., .22 Auto.
V8-402 Cu.In.	.16 Syn., .16 Auto.
V8-454 (LS5) Cu.In.	.22 Syn. & Auto.
V8-454 (LS6) Cu.In.	.16 Syn. & Auto.
Distance between tubes	.55
Thickness of core	
L6-250 Cu.In.	1.26
V8-307, 350 & 402 Cu.In.	1.26
V8-454 Cu.In.	1.98
Frontal area (sq.in.)	
L6-250 & V8-307 Cu.In.	353
V8-350, 402 & 454 Cu.In.	480

## RADIATOR HEAVY DUTY (RPO V01)

Core constant and thickness	
Distance between fins	
L6-250 Cu.In.	.16 Syn., .16 Auto.
V8-307 Cu.In.	.16 Syn., .16 Auto.
V8-350 (L65) Cu.In.	.22 Syn., .16 Auto.
V8-350 (L48) Cu.In.	.20 Syn., .16 Auto.
V8-402 & 454 Cu.In.	.16 Syn., .16 Auto.
Distance between tubes	.55
Thickness of core	
L6-250 Cu.In.	1.26 Syn., 1.26 Auto.
V8-307 Cu.In.	1.26 Syn., 1.26 Auto.
V8-350 Cu.In.	1.26 Syn., 1.98 Auto.
V8-402 & 454 Cu.In.	2.70 Syn. & Auto.
Frontal area (sq.in.)	
L6-250 Cu.In.	353
V8-307 & 350 Cu.In.	480
V8-402 & 454 Cu.In.	480

## RADIATOR CAP RELIEF VALVE

Opens at . . . . . Approximately 15 PSI

## THERMOSTAT

Type	Pellet
Begins to open at	192°-198°
Fully opened at	227°
Thermostat By-Pass Hose	
V8-402 & 454 Cu.In.	.745 ID

## RADIATOR HOSE

Outlet, lower (radiator to water pump)	
L6-250 Cu.In.	1.75 ID
V8-307 & 350 Cu.In.	1.75 ID
V8-402 & 454 Cu.In.	1.88 ID
Inlet, upper (thermostat hsg. to radiator)	
L6-250 Cu.In.	1.50 ID
V8-307 & 350 Cu.In.	1.50 ID
V8-402 & 454 Cu.In.	1.50 ID

## FAN

Number of Blades	4
	●V8-454 Cu.In. (LS6) - 5
Diameter	
L6-250 Cu.In.	17.62
V8-307 & 350 Cu.In.	19.00
V8-402 & 454 (LS5) Cu.In.	18.00
●V8-454 (LS6) Cu.In.	18.00
Fan pulley pitch diameter	7.00

## BELTS, CRANKSHAFT, FAN AND GENERATOR

Number used	One
Angle of "V"	38°-42°
Pitch line	
L6-250 Cu.In.	37.30
V8-307 Cu.In.	44.25
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	
L6-250 Cu.In.	27 GPM @ 2000 engine RPM
V8-307 Cu.In.	25 GPM @ 2000 engine RPM
V8-350 Cu.In.	25 GPM @ 2000 engine RPM
V8-402 Cu.In.	27 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-Plug	Left side rear
Engine Block - Plug	
L6-250 Cu.In.	Left side rear
V8-307 & 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	
L6-250 Cu.In.	2300 watts
V8-307 Cu.In.	2900 watts
V8-350 & 402 Cu.In.	2900 watts
V8-454 Cu.In.	3750 watts
Heavy Duty (RPO T60)	3750 watts
Capacity (SAE) @ 20 hr. rate	
L6-250 Cu.In.	45 amp. hr.
V8-307 Cu.In.	61 amp. hr.
V8-350 & 402 Cu.In.	61 amp. hr.
V8-454 Cu.In.	80 amp. hr.
Heavy Duty	80 amp. hr.
Total Number of Plates	
L6-250 Cu.In.	54
V8-307 Cu.In.	66
V8-350 & 402 Cu.In.	66
V8-454 Cu.In.	90
Heavy Duty	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	
L6-250 Cu.In.	ACR46TS
V8-307 & 350 (L65) Cu.In.	ACR45TS
V8-350 (L48) Cu.In.	ACR44TS
V8-402 Cu.In.	ACR44 TS
V8-454 (LS5) Cu.In.	ACR43TS
V8-454 (LS6) Cu.In.	ACR44TS
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) . . . . . Clockwise  
Test Conditions . . . . . Engine at operating temp.

#### No Load Test

Amps	
L6-250 Cu.In.	49-87
V8-307 Cu.In.	49-87
V8-350 Cu.In.	65-100
V8-402 & 454 Cu.In.	70-99
Volts	10.6
RPM	
L6-250 Cu.In.	6200-10700
V8-307 Cu.In.	6200-10700
V8-350 Cu.In.	3600-5100
V8-402 & 454 Cu.In.	7800-12000

#### Motor Drive

Engagement . . . . . Solenoid  
Pinion Tooth No. . . . . 9  
Flywheel Tooth No. -- 153; V8-402 & 454 . . 168  
Mounting . . . . . Bolted to cylinder block flange

DISTRIBUTORS	Transmission	250 Cu.In.	307 Cu.In.	350 Cu.In.		402 Cu.In.	454 Cu.In.		
		L6-145 HP	V8-200 HP	V8-245 HP	V8-270 HP	V8-300 HP	V8-365 HP	V8-425 HP	
Model	Manual	1110489	1112005	1112042	1112044	1112057	1112052	1112075	
	Automatic	1110489	1112039	1112005	1112045	1112057	1112052	1112054	
Type	Single breaker								
Cam angle		31°-34°		29°-31°			28°-30°		
Breaker gap		.019 (new)							
Breaker arm tension		19-23 oz.				28-32 oz.			
Centrifugal advance begins @ RPM	Manual	1270	1000	1120	1160	1260	1143	1200	
	Automatic	1270	1320	1000	1335	1260	1143	1310	
Maximum degrees @ RPM	Manual	24 @ 4100	24 @ 4300	28 @ 4300	22 @ 4200	30 @ 4400	22 @ 3900	32 @ 5000	
	Automatic	24 @ 4100	20 @ 4200	24 @ 4300	18 @ 4200	30 @ 4400	22 @ 3900	28 @ 5000	
Vacuum advance begins @ In.Hg.	Manual	8.00	8.00	8.00	8.00	8.00	8.00	7.00	
	Automatic	8.00	8.00	7.00	7.00	8.00	8.00	7.00	
Max. deg. @ In.Hg.	Man. & Auto.	22 @ 16	20 @ 17	15 @ 15.5	20 @ 17	12 @ 12			
Timing (initial design setting) Crankshaft degrees @ RPM with vacuum line disconnected	Manual	4°BTC @ 550	4°BTC @ 600	2°BTC @ 600	4°BTC @ 600	8°BTC @ 600	8°BTC @ 700		
	Automatic	4°BTC @ 500	8°BTC @ 550	6°BTC @ 550	8°BTC @ 550	8°BTC @ 600	12°BTC @ 700		
Timing mark location		Torsional damper							

# CLUTCHES AND TRANSMISSIONS

## CLUTCHES

Engine	Type-Cubic Inch	L6-250	V8-307	V8-350		V8-402	V8-454		
Clutch for	Availability	Base		RPO L65	RPO L48	RPO LS3	RPO LS5	RPO LS6	
Type		3-Speed		3-Speed & 4-Speed					
		Single dry disc		Single dry disc, centrifugal					
Clutch cover & pressure plate	Eff. plate load, lbs.	1650-1850	1900-2100	2100-2300	2450-2750		2600-2800		
	Press. plate mat.	Cast iron		Nodular Iron					
	Clutch spring type	Diaphragm		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							
	Dampers	(a)	(b)	10 coil springs (5 sets of two)					
	Friction rings	OD	9.12	10.34	11.00				
		ID	6.12	6.50	6.50				
		Total area sq. in.	71.82	101.54	123.70				
	Material	Woven type asbestos							
Flywheel & Ring Gear	Flywheel	Cast iron							
		Heat treated HR steel							
	Ring gear	No. of teeth	153		168				
		PD	12.75		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							

(a) 6 outer coil springs and 3 inner coil springs equally spaced

(b) 12 coil springs (6 sets of two)

## 3-SPEED AND 4-SPEED TRANSMISSIONS

Transmission Type		3-Speed				4-Speed				
Engine	Type-Cubic Inch	L6-250	V8-307	V8-350	V8-402	V8-350		V8-402	V8-454	
Application	Availability	Base		RPO L48	RPO LS3	RPO L65	RPO L48	RPO LS3	RPO LS5	RPO LS6
Case Material		Cast iron						Aluminum		
Gear Shift	Type	Remote								
	Control	Lever								
	Location	Steering column					Floor			
Gears	Type	Helical								
	Material	Forged steel hardened								
	Synchronization	All forward gears								
	Constant mesh gear	All gears				All forward gears				
	Sliding gears	None				Reverse				
	Ratio	First	2.85	2.54	2.42	2.54	2.52	2.20		
		Second	1.68	1.50	1.58	1.80	1.88	1.64		
Third		1.00	1.00	1.00	1.44	1.46	1.27			
Fourth					1.00	1.00	1.00			
Reverse		2.95	2.63	2.41	2.54	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	L-6 250 Cu.In.	V-8 307 Cu.In.	
	Availability	Standard		
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 controls	Manual valve type		Spool	
	Pressure regulator valve type		Spool	
	Pressure @ Idle (b)	Drive	51	51
		Low	112	112
Reverse		91	91	
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)		1620	1530
	Diameter (nominal)		11.0	
Planetary gear set	Type	Compound planetary		
	Range	Drive	1.82 to 1	
		Low	1.82	
		Reverse	1.82	
	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-disk		
	Drive plates	Description	Waved steel with bonded organic facings	
		Number	3	5
	Driven plates	Description	Flat steel	
Number		4	5	
Reverse clutch	Type	Multi-disk		
	Drive plates	Description	Flat steel with bonded organic facings	
		Number	4	5
	Reaction plates	Description	Flat steel	
Number		4	5	
Torque Multi- plication	Maximum overall ratio		3.82	
	Low and reverse		3.82 to 1.82	
Lubricant	Type	A suffix A		
	Capacity (pts)	Dry	17	
		Refill	6	
Governor	Type	Centrifugal		
	Operation	Regulates pump oil pressure to automatic shift control valve body		
	Drive	Mounted on output shaft		
	Location	In extension		
Oil pump	Type	Internal-external gear		
	Number	One; front		
	Function	To supply pressure		
	Drive	Converter pump		

(a) Floor mount available when bucket seats are used. (b) Conditions: 450 RPM input at 25 inches Hg vacuum



# TRANSMISSIONS

## TURBO HYDRA-MATIC TRANSMISSION

Engine	Displacement	V8-307	V8-350	V8-402 & 454	
General Data	Type	Automatic hydraulic torque converter with compound planetary gear system - three forward speeds and reverse.			
	Selector lever	Location	Steering column (a)		
		Operation	Actuates controls by a hydraulic system from pressurized gear type pump		
		Quadrant pattern	P-R-N-D-L2-L1		
	Parking Lock	Type	Locking pawl		
	Method of cooling	Operation	Applied by selector lever through manual linkage		
		Flywheel assembly	Water		
Hydraulic System	Oil pressure pump	Steel stamping with welded on ring gear			
	Type	Supplies hydraulic pressure from an engine driven gear type pump			
	Manual	Steel spool			
	Pressure regulator	Establishes range at transmission operation			
	Shift (1-2)	Controls main line pressure			
	Shift (2-3)	Controls oil pressure for transmission shift from 1-2 or 2-1			
	Modulator	Controls oil pressure for transmission shift from 2-3 or 3-2			
		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 (b)	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 - 1.51:1	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			
	Type	Four, multiple disk	Three, multiple disk		
Clutches	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	20	22	
		Refill	5	8	

(a) Floor mounted available when bucket seats are used; quadrant changes to P-R-N-3-2-1.

(b) Conditions: 450 RPM input at 25 inches Hg. vacuum.

# DIMENSIONS AND WEIGHTS

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# INTERIOR DIMENSIONS

## FRONT COMPARTMENT

CODE	DESCRIPTION	4-DOOR SEDAN	SPORT SEDANS	SPORT COUPES	CONVERT- IBLES	STATION WAGONS	SEDAN PICKUP
H3	Seat cushion height	10.8		10.5		10.9	10.5
H11	Entrance height	30.1	30.3		29.5	30.1	30.1
H13	Steering wheel thigh clearance	4.2		4.0		4.1	4.1
H30	H point to heel point				8.1		
H32	Seat cushion deflection	4.0			3.9	3.8	4.0
H58	H point rise				0.8		
H61	Effective headroom	38.5	38.1	37.5	38.3	38.3	38.2
H70	H point to body O line	13.8		14.2		14.2	13.8
H75	Effective headroom - 'T' point	38.7	38.3	37.6	38.5	38.2	38.3
W3	Shoulder room	58.2	58.4		58.2	58.3	58.2
W5	Hip room	59.8	59.5		59.7	59.5	59.8
L7	Steering wheel torso clearance	12.2		12.1		12.5	12.2
L17	H point travel				4.8		
L34	Effective leg room	42.7		42.8		42.8	42.5

## REAR COMPARTMENT

H8	Seat cushion height	13.2	13.2		12.7	13.0	----
H12	Entrance height	29.5	29.9		----	29.7	----
H31	H point to heel point	10.8	10.7		10.1	10.6	----
H33	Seat cushion deflection	4.4			4.7	4.5	----
H51	Upper body opening to ground	48.2	48.6		----	49.8	----
H63	Effective headroom	37.1		36.3	36.9	38.6	----
H71	H point to body O line	14.0			13.4	14.0	----
H76	Effective headroom - 'T' point	37.1		36.3	36.9	38.5	----
W4	Shoulder room	57.3	57.2	56.9	56.9	57.4	----
W6	Hip room	59.2	59.2	52.9	50.4	59.3	----
L3	Rear compartment room	25.8			23.7	26.1	----
L50	H point couple distance	32.8			30.6	32.8	----
L51	Effective leg room	35.0	34.9		32.3	34.8	----

## STATION WAGON THIRD SEAT

W85	Shoulder room					57.5	
W86	Hip room					47.0	
H86	Effective headroom					35.9	
L86	Effective leg room					30.6	
L87	Knee room					10.5	

## LUGGAGE COMPARTMENT

--	Opening width						
--	Interior height						
--	Interior width						
--	Interior length						
H195	Liftover height	26.6		25.9			28.7
V1	Usable luggage capacity (cu.ft.)	12.8	13.5	12.8	9.0		----
--	Total volume (cu.ft.)						

## STATION WAGON CARGO SPACE

H201	Maximum cargo height					31.6	--
H202	Rear opening height					28.6	--
H250	Tailgate to ground height					22.0	21.4
W200	Cargo width - front					59.5	58.8
W201	Cargo width - wheelhouse					44.5	45.3
W203	Rear opening width at floor					50.1	54.6
W204	Rear opening width at belt					49.6	--
W205	Rear opening width above belt					49.4	--
L200	Maximum cargo length - front seat					116.8	--
L201	Maximum cargo length - second seat					85.0	--
L202	Cargo length at floor - front seat					90.9	79.3
L203	Cargo length at floor - second seat					59.1	--
L204	Cargo length at belt - front seat					79.9	--
L205	Cargo length at belt - second seat					46.8	--
V2	Total cargo volume (cu.ft.)					94.0	38.5

# EXTERIOR DIMENSIONS

## LENGTHS

CODE	DESCRIPTION	4-DOOR SEDAN	SPORT SEDANS	SPORT COUPES	CONVERT- IBLES	STATION WAGONS	SEDAN PICKUP
L101	Wheelbase	116.0		112.0		116.0	
L102	Tire size (standard)	E78-14 (6 cyl); F78-14 (V8)				G78-14 (a)	
L103	Overall length	201.5		197.5		206.8	
L104	Overhang - front					37.8	
L105	Overhang - rear	47.7				53.0	
—	Overall length - less bumpers						
L127	Body O line to C/L of rear wheels	99.5		95.5		99.5	
L128	Hood length at centerline	61.0					

## WIDTHS

W101	Tread - front	60.0				59.3*	
W102	Tread - rear	59.9				59.2	
W103	Maximum overall width of car	75.4					
W106	Front fender overall width	75.5				75.6	
W107	Rear fender overall width	75.4				75.3	75.4
W120	Overall car width, front doors open	132.3		150.1		132.3	132.3
W121	Overall car width, rear doors open	134.4		—		134.2	—

## HEIGHTS

H101	Overall height (design)	53.3		52.7	52.9	54.4	54.4
—	Overall height (curb)						
H102	Front bumper to ground	13.8		14.3		15.0	15.0
H104	Rear bumper to ground	15.7		15.1		12.9	11.9
H111	Rocker panel to ground - rear	7.5		7.2		9.2	8.5
H112	Rocker panel to ground - front	8.5		8.6		9.8	9.4
H114	Hood at rear to ground	38.0		38.1		39.4	39.1
H115	Step height - front (design)	12.3				13.9	
H116	Step height - rear (design)	11.9		—		13.6	—
H125	Headlamp to ground	26.0		26.3		27.2	27.0
H126	Tail lamp to ground	21.3		20.9		26.0	25.0
H130	Step height - front (curb)	14.3				15.4	
H131	Step height - rear (curb)	14.3		—		15.5	
H136	Body O line to ground - front	4.9		5.1		6.2	5.9
H137	Body O line to ground - rear	4.1		3.7		5.9	5.1

## CLEARANCES

H106	Angle of approach (degrees)	22.1	22.0	25.6		25.2	25.4
H107	Angle of departure (degrees)	21.1	21.0	20.7	20.5	17.0	16.5
H147	Ramp breakover angle (degrees)	13.4	13.3	13.8	13.7	15.5	15.0
H148	Front suspension to ground	6.4		6.7		7.6	7.5
H149	Oil pan to ground	5.3		5.5		6.6	6.4
H150	Flywheel housing to ground	5.6		5.8		7.0	6.8
H151	Frame to ground	5.1		5.4		6.3	6.3
H152	Exhaust system to ground	4.7		4.6		6.2	5.7
H153	Rear axle to ground	7.0				7.3	7.1
H154	Fuel tank to ground	7.4		7.0		10.7	10.1
H155	Tire well to ground	—		—		9.0	—
H156	Minimum ground clearance (H152)	4.7		4.6		6.2	5.7

(a) Sedan Pickup - F78-14

\*—60.2 with disc brakes

# VEHICLE WEIGHTS

## CHEVELLE

MODEL SYMBOL		VEHICLE TYPE Description	SHIPPING WEIGHT			CURB WEIGHT		
6-Cyl	V8		Front	Rear	Total	Front	Rear	Total
13337	---	2-Door Sport Coupe	1774	1392	3166	1756	1508	3264
---	13437		1884	1412	3296	1866	1528	3394
13369	---	4-Door Sedan	1796	1414	3210	1778	1530	3308
---	13469		1902	1436	3338	1884	1552	3436

## MALIBU

13569	---	4-Door Sedan	1820	1430	3250	1802	1546	3348
---	13669		1926	1454	3380	1908	1570	3478
13537	---	2-Door Sport Coupe	1798	1414	3212	1780	1530	3310
---	13637		1912	1430	3342	1894	1546	3440
---	13639	4-Door Sport Sedan	1948	1502	3450	1930	1618	3548
---	13667	2-Door Convertible	1898	1492	3390	1880	1608	3488

## NOMAD

13136	---	4-Door, 2-Seat Station Wagon	1690	1942	3632	1672	2054	3726
---	13236		1800	1946	3746	1782	2058	3840

## GREENBRIER

---	13436	4-Door, 2-Seat Station Wagon	1824	1996	3820	1806	2108	3914
---	13446	4-Door, 3-Seat Station Wagon	1816	2066	3882	1798	2178	3976

## CONCOURS

---	13636	4-Door, 2-Seat Station Wagon	1806	2058	3864	1788	2170	3958
---	13646	4-Door, 3-Seat Station Wagon	1826	2082	3908	1808	2194	4002

## CONCOURS ESTATE

---	13836	4-Door, 2-Seat Station Wagon	1858	2034	3892	1840	2146	3986
---	13846	4-Door, 3-Seat Station Wagon	1844	2100	3944	1826	2212	4038

## EL CAMINO

13380	---	2-Door Sedan Pickup	1810	1424	3234	1792	1540	3332
---	13480		1914	1446	3360	1896	1562	3458
---	13680		1922	1452	3374	1904	1568	3472

**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.

# BODY

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## 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

## CHEVELLE 133-13400 SERIES MALIBU 135-13600 SERIES

SERIES	MODEL				Front Seat	INTERIOR TRIM COLORS AND RPO NUMBERS									
						Black		Dark Blue		Dark Jade		Sandalwood		Dark Saddle	
	37	39	67	69	Type	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Vinyl	
Chevelle	X			X	Bench	701	703	724	-	736	-	-	-	-	
			X	Bench	704	705	725	-	730	-	-	714	721		
		X		Bench	704	705	725	726	730	731	718	714	-		
Malibu	X			Bench	704	705	725	-	730	731	718	714	721		
	X			Bucket	-	706	-	-	-	732	-	715	722		
			X	Bench	-	705	-	-	-	731	-	-	721		
			X	Bucket	-	706	-	-	-	732	-	-	722		

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

CODE NO.		TWO-TONE					
Lwr.	Upr.						
26	11	Antique White Mulsanne Blue	X	X		X	
43	11	Antique White Lime Green	X		X	X	X
49	11	Antique White Antique Green	X		X	X	X
53	11	Antique White Placer Gold	X			X	X
61	11	Antique White Sandalwood	X		X	X	X
62	11	Antique White Burnt Orange	X			X	

Convertible Top: Black or White with any exterior color.



# EXTERIOR-INTERIOR COLORS

## STATION WAGON SERIES EL CAMINO SERIES

SERIES	BODY STYLE			Front Seat Type	Seat Trim	INTERIOR TRIM COLORS & RPO NUMBERS				
	36	46	80			Black	Dark Jade	Sandalwood	Medium Saddle	Dark Saddle
Nomad	X			Bench	Vinyl	702	-	712	719	-
Greenbrier	X	X				703	-	713	720	-
Concours	X	X				705	731	-	-	721
Concours Estate	X	X				705	731	-	-	721
Standard El Camino			X			703	-	713	720	-
Custom El Camino			X			705	731	714	-	721
				Bucket	706	732	715	-	722	

VINYL TOP COLORS*					CODE NO.	EXTERIOR COLOR					
Black	White	Blue	Green	Brown			Black	Dark Jade	Sandalwood	Medium Saddle	Dark Saddle
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		19	Tuxedo Black	X	X	X	X	X
X	X	X			24	Ascot Blue	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	X				52	Sunflower Yellow	X	X	X	X	X
X	X				53	Placer Gold	X		X		X
X	X			X	61	Sandalwood	X	X	X	X	X
X	X			X	62	Burnt Orange	X		X		
X	X			X	67	Classic Copper	X		X	X	
X	X				75	Cranberry Red	X		X	X	
X	X			X	78	Rosewood Metallic	X		X		

(\*)-El Camino and Custom El Camino only.

# CHEVELLE AND MALIBU COUPES, SEDANS AND CONVERTIBLE

## 1971 MODELS WITH STANDARD EQUIPMENT

Coupes and Convertible (112" Wheelbase)

Sedans (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>6-Cylinder Models</b>								
<b>145-hp Turbo-Thrift 250 Engine</b>								
<b>Chevelle</b>								
13337 Sport Coupe—5-Passenger					\$2712.00	6	.....	.....
13369 4-Door Sedan—6-Passenger					2677.00	5	.....	.....
<b>Malibu</b>								
13537 Sport Coupe—5-Passenger					2885.00	6	.....	.....
13569 4-Door Sedan—6-Passenger					2851.00	5	.....	.....

## 8-Cylinder Models

200-hp Turbo-Fire 307 Engine

<b>Chevelle</b>								
13437 Sport Coupe—5-Passenger					2807.00	6	.....	.....
13469 4-Door Sedan—6-Passenger					2773.00	5	.....	.....
<b>Malibu</b>								
13637 Sport Coupe—5-Passenger					2980.00	6	.....	.....
13669 4-Door Sedan—6-Passenger					2947.00	5	.....	.....
13639 Sport Sedan—6-Passenger					3052.00	6	.....	.....
13667 Convertible—5-Passenger					3260.00	8	.....	.....

\* 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‡
<b>MODEL OPTIONS</b>						
<b>SS Equipment:</b> V8 Malibu Sport Coupe or Convertible models with optional engine only. Includes power disc/drum brakes; black-finished grille; special domed hood with locking pins; LH remote-control sport mirror; SS emblems on grille, fenders and steering wheel; sport suspension; 15" x 7" wheels with bright lug nuts, special center caps and trim rings; F60-15 white lettered tires and function symbols on instrument panel knobs	215					\$357.05
<b>→ Heavy Chevy:</b> Model 13437 V8 Chevelle Coupe only. Includes black accented grille; special side striping; Heavy Chevy decals on hood, front fenders and rear deck; special domed hood with locking pins; 14" x 6" rally type wheels with bright lug nuts and center caps. Choice of either black or white stripes available except when vinyl roof cover, black or white painted roof is specified. See Striping Application Chart...	YF3					142.20

\* 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

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CHEVROLET MOTOR VEHICLE PRICE SCHEDULE

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# CHEVELLE AND MALIBU COUPES, SEDANS AND CONVERTIBLE

## 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>FEATURE GROUPS</b>						
(Any item contained in a feature group may be ordered separately)						
<b>APPEARANCE GUARD GROUP</b>						
INCLUDES:						
(A) Guards, Bumper: Front and rear	V30					31.60
(B) Guards, Door Edge:						
Coupe or Convertible models	B93					6.35
Sedan models	B93					9.50
(C) Mats, Color-Keyed Floor: 2 Front, 2 Rear	B37					12.65
(D) Mirror, Visor Vanity	D34					3.20
For Coupe or Convertible models—Includes A, B, C & D	ZP5					53.80
For 4-Door Sedan or Sport Sedan models—Includes A, B, C & D	ZP5					56.95

### OPERATING CONVENIENCE GROUP

INCLUDES:						
(A) Clock, Electric: Included when special instrumentation is ordered	U35	12.48	12.16	90	16.00	16.90
(B) Defroster, Rear Window: (Forced-Air)						
Coupe or Sedan models	C50					31.60
Convertible model	C50					36.90
(C) Mirror, L.H. Outside Remote-Control Rearview: Not available when SS Equipment is ordered	D33					12.65
For Malibu 4-Door Sedan or Sport Sedan models—Includes A, B & C	ZQ2					61.15
For Malibu Coupe models						
Without special instrumentation or SS Equipment—Includes A, B & C	ZQ2					61.15
With special instrumentation, without SS Equipment—Includes B & C	ZQ2					44.25
With SS Equipment, without special instrumentation—Includes A & B	ZQ2					48.50
With SS Equipment and special instrumentation—Includes B	ZQ2					31.60
For Malibu Convertible model						
Without special instrumentation or SS Equipment—Includes A, B & C	ZQ2					66.45
With special instrumentation, without SS Equipment—Includes B & C	ZQ2					49.55
With SS Equipment, without special instrumentation—Includes A & B	ZQ2					53.80
With SS Equipment and special instrumentation—Includes B	ZQ2					36.90
For Chevelle 4-Door Sedan—Includes A, B & C	ZQ2					61.15
For Chevelle Sport Coupe						
Without special instrumentation—Includes A, B & C	ZQ2					61.15
With special instrumentation—Includes B & C	ZQ2					44.25

### POWER TEAMS

(See Power Teams Chart for availability and complete engine specifications)

<b>Engines: V8 models only.</b>						
245-hp Turbo-Fire 350	L65					26.35
270-hp Turbo-Fire 350	L48					73.75
300-hp Turbo-Jet 400. Available only when F78-14 tires or SS Equipment is ordered	LS3					172.75
→ 365-hp Turbo-Jet 454. Available only when SS Equipment and HD battery are ordered. Includes HD radiator when air conditioning is ordered	LS5					279.10
→ 425-hp Turbo-Jet 454. Available only when SS Equipment and HD battery are ordered. Includes sport suspension	LS6				Will Advise	
<b>Transmissions:</b>						
<b>Powerglide</b>						
6-Cyl models	M35					179.55
V8 models. Available only when standard engine is specified	M35					190.10
<b>Turbo Hydra-matic. V8 models only</b>						
With standard, 245-hp or 270-hp engine	M40					216.50
With 300-hp or 365-hp engine	M40					237.60
→ With 425-hp engine	M40					306.25
3-Speed. Floor-mounted. V8 models with 270-hp engine only	M11					132.00
Special 3-Speed. Floor-mounted. V8 models with 300-hp engine only	MC1					132.00
4-Speed Wide-Range. V8 models with 245-hp, 270-hp or 300-hp engine only	M20					195.40
Special 4-Speed Close-Ratio. Available only when 365-hp or 425-hp engine is ordered	M22					237.60
<b>Axle, Positraction Rear</b>	G80					46.35
<b>Axle Ratios:</b>						
<b>Performance</b>						
With standard V8 engine and Turbo Hydra-matic transmission only	ZQ9					12.65
→ With 425-hp engine only. Includes HD radiator	ZQ9					33.75
<b>Trailering. Available only when 200-hp, 245-hp, 270-hp or 300-hp engine with special suspension and Turbo Hydra-matic transmission are ordered.</b>	YD1					12.65

\* 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

# CHEVELLE AND MALIBU COUPES, SEDANS AND CONVERTIBLE

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D & H	List Price	Mir's Suggested Retail Delivered Price**
<b>POWER ASSISTS</b>						
<b>Brakes, Power:</b>						
With drum-type brakes. Not available when SS Equipment is ordered.	150					\$ 47.40
With disc/drum brakes, included when SS Equipment is ordered.	ZL2					69.55
<b>Door Lock System, Power: Electric</b>						
Coupe or Convertible models	AU3					46.35
Sedan models	AU3					70.60
<b>Steering, Power: Variable ratio</b>	N40					115.90
<b>OTHER OPTIONS</b>						
<b>Air Conditioning: Four-Season.</b> V8 models only. Not available when 425-hp engine is ordered. Includes 61-amp generator and increased cooling.	C50					407.60
<b>Battery, Heavy-Duty:</b> 15-plate, 80-amp-hr.	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 or Sedan models with bench seat—6 seat and 2 front shoulder	AK1					16.90
Coupe models with bucket seats—5 seat and 2 front shoulder	AK1					15.30
Convertible model with bench seat—6 seat	A39					14.75
Convertible model with bucket seats—5 seat	A39					13.20
<b>SHOULDER BELTS—2 FRONT:</b> Convertible model only. For use when Custom Deluxe Belts are ordered.	A85					26.35
<b>SHOULDER BELTS—2 REAR:</b> Convertible model requires use of front shoulder belt option. For use when Custom Deluxe Belts are ordered.	AS4					26.35
<b>Console:</b> Available only on Malibu Sport Coupe or Convertible models when bucket seats and optional transmission are ordered. Includes rear seat courtesy light and compartment. Shift lever is mounted on console.	D55					59.00
<b>Generator, 63-Amp Delcotron:</b> Not available when 425-hp engine is ordered						
Without air conditioning	K85					26.35
With air conditioning	K85					5.30
<b>Glass, Soft-Ray Tinted:</b> All windows	A01					43.20
<b>Hood, Cowl Induction:</b> Available only when SS Equipment and 365-hp or 425-hp engine are ordered. Includes sport striping on hood and rear deck lid; air intake valve at rear of hood and hood to air cleaner duct. <i>Choice of either black or white stripes available on Coupe model except when vinyl roof cover, black or white painted roof is specified. See Striping Application Chart.</i>	ZL2					158.00
<b>Instrumentation, Special:</b> Available on V8 Coupe or Convertible models only. Includes clock, tachometer, ammeter and temperature gauges mounted in instrument panel.	U14					84.30
<b>Lighting, Auxiliary:</b>						
(A) Ashtray Light						
(B) Courtesy Lights						
(C) Glove Compartment Light						
(D) Luggage Compartment Light						
(E) Mirror Map Light						
(F) Underhood Light						
For Malibu Convertible model—Includes A, D, E & F	ZJ9					15.80
For Malibu Sport Coupe or Sedan models—Includes A, B, D, E & F	ZJ9					21.10
For Chevelle Coupe or Sedan models—Includes A, B, C, D, E & F	ZJ9					23.70
<b>Moldings, Window:</b> 4-Door Sedan models only.	B90					26.35
<b>Paints, Exterior:</b>						
Solid		N.C.	N.C.	N.C.	N.C.	N.C.
Two-Tone. Coupe or Sedan models only. Includes bright metal outline moldings						31.60
<b>→ Radiator, Heavy-Duty:</b> Included when 365-hp engine with air conditioning is ordered. Also included when 425-hp engine is ordered with performance ratio rear axle						
6-cyl models	V01					14.75
V8 models. Includes extra HD cooling.	V01					21.10

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◇ State and local taxes not included.

→ Indicates Change

# CHEVELLE AND MALIBU COUPES, SEDANS AND CONVERTIBLE

## 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>⊕</sup>
<b>Radio Equipment:</b>						
<i>Pushbutton.</i> 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
Speaker, Rear Seat—Not available when stereo is ordered	U80					15.80
<b>Roof Cover, Vinyl:</b> Not available on Convertible model. Includes bright metal outline moldings. See Color Selection Chart for solid exterior color availability.						
Black	BB					94.80
Blue (Dark)	CC					94.80
Brown (Dark)	FF					94.80
Green (Dark)	GG					94.80
White	AA					94.80
<b>Speed and Cruise Control:</b> (Cruise-Master) V8 models with automatic transmission and power brakes only						
	K30					63.20
<b>Steering Wheels:</b>						
<i>Comfortilt.</i> Available only when optional transmission is ordered						
	N33					45.30
<i>Custom.</i> Black. Not available when comfortilt steering wheel is ordered						
	NK2					15.80
<i>Sport</i> (4-Spoke). Black						
	NK4					15.80
<b>Stripes, Sport:</b> Malibu Sport Coupe or Convertible models only. Included when cowl induction hood is ordered. Includes sport striping on hood and rear deck lid. <i>Choice of either black or white stripes available on Coupe model except when vinyl roof cover, black or white painted roof is specified. See Striping Application Chart.</i>						
	D88					79.00
<b>Suspensions:</b>						
<i>Special Front and Rear.</i> Not available when SS equipment is ordered. Includes special front and rear springs and matching shock absorbers						
	F40					17.95
<i>Sport.</i> Available only when 300-hp engine is ordered. Included when SS Equipment is ordered. Includes HD rear shock absorbers, rear stabilizer, front and rear springs plus special duty front stabilizer and rear axle control arms						
	F41					30.55
<b>Tops, Convertible: Power.</b> Available with all exterior solid colors on Malibu Convertible model only.						
Black	BB	N.C.	N.C.	N.C.	N.C.	N.C.
White	AA	N.C.	N.C.	N.C.	N.C.	N.C.
<b>Trim, Interior:</b> See Interior and Exterior Color Selection Chart for availability and ordering information.						
<i>Vinyl Bench seat.</i> Coupe or Sedan models only						
						19.00
<i>Strato-Bucket vinyl seats.</i> Malibu Sport Coupe or Convertible models only						
	AS1					136.95
→ <b>Wheel Covers:</b> Not available when Heavy Chevy or SS Equipment is ordered						
<i>Bright Metal</i>						
	P01					26.35
<i>Custom</i>						
	P02					84.30
→ <b>Wheels, Rally:</b> Not available when Heavy Chevy or SS Equipment is ordered. Includes special 14" x 6" wheels, special hub caps and trim rings						
	Z17					45.30

### FACTORY INSTALLED REGULAR PRODUCTION TIRES

<b>Replaces (5) E78-14/B Bias Belted Ply Blackwall (Without SS Equipment)</b>		
(5) E78-14/B Bias Belted Ply White Stripe	PL3	28.15
<b>(5) F78-14/B Bias Belted Ply Blackwall</b>		
Without 300-hp engine	PX5	17.95
With 300-hp engine. Also includes 14" x 6" wheels	PX5	23.20
<b>(5) F78-14/B Bias Belted Ply White Stripe</b>		
Without 300-hp engine	PX6	48.10
With 300-hp engine. Also includes 14" x 6" wheels	PX6	53.35

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# CHEVELLE AND MALIBU COUPES, SEDANS AND CONVERTIBLE POWER TEAMS

## Engine, Transmission and Rear Axle Combinations

Option Number and Model Application	ENGINES Description	TRANSMISSIONS		SHIFT LEVER LOCATION		REAR AXLE RATIOS*		
		Type (Std or Optional)	Without Console	With Optional Console	Std	Optional		
						Perf	Trailering	

### STANDARD ENGINES

Standard Six-Cylinder on 6-Cyl Models	145-hp Turbo-Thrift 250 6-Cylinder 250-cu-in displacement Single-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed (Std)—ZW4	Column	Not Available	3.08	—	—
		Powerglide—M35	Column	In Console w/Floor Shift	3.08	—	—
Standard Eight-Cylinder on V8 Models	200-hp Turbo-Fire 307 8-Cylinder 307-cu-in displacement Regular camshaft 2-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters 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 Without Special Suspension	Column	In Console w/Floor Shift	2.73	3.08	—
		With Special Suspension	Column	In Console w/Floor Shift	2.73	3.08	3.31

### OPTIONAL ENGINES

Option L65 on V8 Models	245-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement Regular camshaft 2-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	Turbo Hydra-matic—M40 Without Special Suspension	Column	In Console w/Floor Shift	2.56	—	—
		With Special Suspension	Column	In Console w/Floor Shift	2.56	—	3.31
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.36	—	—
Option L48 on V8 Models	270-hp Turbo-Fire 350 8-Cylinder 350-cu-in displacement Regular camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	Turbo Hydra-matic—M40 Without Special Suspension	Column	In Console w/Floor Shift	2.73	—	—
		With Special Suspension	Column	In Console w/Floor Shift	2.73	—	3.31
		3-Speed—M11	Floor With Boot	In Console	3.31	—	—
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.31	—	—
Option LS3 on V8 Models	300-hp Turbo-Jet 400 8-Cylinder 402-cu-in displacement Regular camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Dual exhausts	Turbo Hydra-matic—M40 Without Special Suspension	Column	In Console w/Floor Shift	2.73	—	—
		With Special Suspension	Column	In Console w/Floor Shift	2.73	—	3.31
		Special 3-Speed—MCI	Floor With Boot	In Console	3.31	—	—
		4-Speed Wide-Range—M20	Floor With Boot	In Console	3.31	—	—
Option LS5 on Malibu V8 Sport Coupe or Convertible Models with SS Equipment	365-hp Turbo-Jet 454 8-Cylinder 454-cu-in displacement High-lift camshaft 4-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Dual exhausts	Turbo Hydra-matic—M40	Column	In Console w/Floor Shift	3.31	—	—
		Special 4-Speed Close-Ratio—M22	Floor With Boot	In Console	3.31	—	—
Option LS6 on Malibu V8 Sport Coupe or Convertible Models With SS Equipment	425-hp Turbo-Jet 454 8-Cylinder 454-cu-in displacement Special camshaft 4-barrel carburetor 9.0:1 compression ratio Mechanical valve lifters 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.

# CHEVELLE AND MALIBU COUPES, SEDANS AND CONVERTIBLE 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, as combinations shown are 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.
GREEN (Dark)	GG	Black, Green or White Exterior Colors Only.
WHITE	AA	All Exterior Colors.

INTERIOR TRIM										
	Type of Seat	Black		Blue (Dark)		Jade (Dark)		Saddle (Dark)	Sandalwood	
		Cloth	Vinyl	Cloth	Vinyl	Cloth	Vinyl	Vinyl	Cloth	Vinyl
MALIBU Sport Coupe	Bench	704	705	725		730	731	721	718	714
	Strato-Bucket (Opt. A51)		706				732	722		715
Sport Sedan	Bench	704	705	725	726	730	731		718	714
4-Door Sedan	Bench	704	705	725		730		721		714
Convertible	Bench		705				731	721		
	Strato-Bucket (Opt. A51)		706				732	722		
CHEVELLE Sport Coupe or 4-Door Sedan	Bench	701	703	724		736				

EXTERIOR COLOR	Code										
	Lower	Upper	Black		Blue (Dark)		Jade (Dark)		Saddle (Dark)	Sandalwood	
<b>SOLID</b>											
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		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
<b>TWO-TONE</b> (With Antique White Upper only)											
Blue, Mulsanne (Lower)	26	11		X		X					X
Gold, Placer (Lower)	53	11		X					X		X
Green, Antique (Lower)	49	11		X				X	X		X
Green, Lime (Lower)	43	11		X				X	X		X
Orange, Burnt (Lower)	62	11		X							X
Sandalwood (Lower)	61	11		X				X	X		X

# CHEVELLE

## STRIPING COLOR APPLICATION CHART

→ The following striping colors are available on vehicles equipped with the Heavy Chevy (YF3), Cowl-Induction Hood (ZL2) or Sport Stripe (D88) options. Striping colors are automatically selected for compatibility to vinyl roof cover or convertible top color applications. Coupe models automatically receive black stripes on all exterior solid colors except Tuxedo Black. In the event white stripes are desired on vehicles ordered with a body color painted roof, in any color except black or white, white stripes may be specified by reflecting ordering code ZR8 in the special instruction area of the order form.

EXTERIOR COLOR			Painted Body Roof Color (Coupes Only)		Vinyl Roof Cover or Convertible Top (Stripe colors automatically selected for compatibility)				
			Auto- matically Selected Stripe Color	Optional White Stripe Color* (Code ZR8)	Black Vinyl or Convertible	White Vinyl or Convertible	Blue Vinyl	Brown Vinyl	Green Vinyl
SOLID	CODE								
	Lower	Upper							
Black, Tuxedo	19	19	White		White	White	White		White
Blue, Mulanne	26	26	Black	White	Black	White	Black		
Blue, Ascot	24	24	Black	White	Black	White	Black		
Copper, Classic	67	67	Black	White	Black	White		Black	
Gold, Placer	53	53	Black	White	Black	White			
Green, Lime	43	43	Black	White	Black	White			Black
Green, Cottonwood	42	42	Black	White	Black	White			Black
Green, Antique	49	49	Black	White	Black	White			Black
Orange, Burnt	62	62	Black	White	Black	White		Black	
Red, Cranberry	75	75	Black	White	Black	White			
Rosewood Metallic	78	78	Black	White	Black	White		Black	
Sandalwood	61	61	Black	White	Black	White		Black	
Silver, Nevada	13	13	Black	White	Black	White	Black		
White, Antique	11	11	Black		Black	Black	Black	Black	Black
Yellow, Sunflower	52	52	Black	White	Black	White			

TWO-TONE (With Antique White Upper only)	CODE								
	Lower	Upper							
Blue, Mulanne (Lower)	26	11	White						
Gold, Placer (Lower)	53	11	White						
Green, Antique (Lower)	49	11	White						
Green, Lime (Lower)	43	11	White						
Orange, Burnt (Lower)	62	11	White						
Sandalwood (Lower)	61	11	White						

\*Available on body color roof (except black or white) only. Insert code XR8 in special instruction area on order form.

→ Indicates Change



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## NOTES

1971 Chevelle	
Malibu	V8
Sport Coupe	13637*
Sport Sedan	13639
Convertible	13667*
4-Door Sedan	13689
Chevelle	
Sport Coupe	13437
4-Door Sedan	13469
	13569
*SS equipment available (RPO Z25)	

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### New Chevelle features for 1971 . . .

- New front styling with large single-unit Power-Beam headlights and front fender lights that serve as parking, direction signal, and side marker lights
- Restyled grille and front bumper
- Wheel opening moldings and wide body sill molding standard on Malibu
- New rear bumper with built-in circular taillights
- New hub caps and optional wheel cover styling
- New 15" Sport Wheels included with SS equipment
- New interior trim styling for Malibu models (base Chevelle interior styling retained)
- New interior color choices for all models
- New soft black instrument panel knobs. With SS equipment, knobs feature European-style function symbols for headlights, cigarette lighter and radio
- New standard steering wheel with cushioned center
- Optional steering wheels include luxurious Custom and 4-spoke Sport
- New sun visor design
- Optional Finger-Tip Windshield Wiper Control now located on tip of transmission control lever
- Slim-line spark plugs for Turbo-Fire V8s as well as Turbo-Jet V8s and Turbo-Thrift six
- Sealed side-terminal energizer battery standard
- New engine mounts now included with six as well as all V8 power teams
- Fuel evaporation control system standard
- Power-operated top now standard on Convertible models
- F60 x 15 white lettered tires included with SS equipment
- All engines operate on low lead fuel
- New Combination Emission Control (CEC) valve

### Safety and security features . . .

#### Occupant Protection Features

- Seat belts with pushbutton buckles for all passenger positions
- Shoulder belts with pushbutton buckles — driver and right front passenger (except Convertible)
- Two front seat head restraints
- Energy-absorbing steering column
- Passenger-guard door locks with forward-mounted door lock buttons
- Safety door latches and hinges
- Folding seat back latches
- Energy-absorbing padded instrument panel and front seat back tops
- Contoured windshield header (except Convertible)
- Thick-laminate windshield
- Padded sun visors
- Safety armrests
- Safety steering wheel
- Side-guard beams
- Cargo-guard luggage compartment

#### Accident Prevention Features

- Side marker lights and reflectors (front side marker lights flash with direction signal)
- Parking lights that illuminate with headlights
- Four-way hazard warning flasher
- Back-up lights
- Lane-change feature in direction signal control
- Windshield defroster, washers and dual-speed wipers
- Wide-view inside day-night mirror (viny-edged, shatter-resistant glass and deflecting support)
- Outside rearview mirror
- Dual master cylinder brake system with warning light
- Dual-action safety hood latches

#### Anti-Theft Features

- Anti-theft ignition key warning buzzer
- Anti-theft steering column lock

### Traditional quality features . . .

- Hide-A-Way wipers on Malibu models
- Curved side windows
- Full door-glass styling on Sport Coupe and Convertible
- Dual white stripe tire option
- Astro Ventilation system (Sport Coupe and Convertible models) with vent-ports on instrument panel
- Forward-mounted front door lock buttons
- Outer front seat belt retractors
- Foot-operated parking brake
- Suspended accelerator pedal
- Efficient valve-in-head design
- Quiet hydraulic valve lifters
- Positive-shift starter
- Automatic choke on all engines
- Advanced accessory drive system on all V8 engines
- Delcotron generator
- 7-main bearing six-cylinder engine with fully counterweighted crankshaft
- Magic-Mirror acrylic lacquer finish
- Flush-and-dry rocker panels
- Double-panel door, hood, and deck lid construction
- Flush-mounted windshield and rear window bonded to body (except Convertible rear window)
- Built-in blended-air heater and defroster system
- Inner fenders front and rear
- 112" wheelbase for Sport Coupe and Convertible—116" wheelbase on Sedans
- Full Coil suspension with computer-selected springs
- Separate perimeter-type frame
- Advanced body mounting system
- Self-adjusting brakes
- Precise Ball-Race steering
- Finned front and rear brake drums (rear only with disc/drum brakes)
- Bias belted ply tires

**Interior Trim**

models	seat style	Black		Dark Blue		Dark Jade		Saddle	Sandalwood	
		cloth	vinyl	cloth	vinyl	cloth	vinyl	vinyl	cloth	vinyl
Malibu Sport Coupe	conventional	704	705	725		730	731	721	718	714
	Strato-Bucket (RPO A51)		706				732	722		715
Malibu Sport Sedan	conventional	704	705	725	726	730	731		718	714
Malibu 4-Door Sedan	conventional	704	705	725		730		721		714
	conventional		705				731	721		
Malibu Convertible	Strato-Bucket (RPO A51)		706				732	722		
		conventional								
Chevelle Sport Coupe or 4-Door Sedan	conventional	701	703	724		736				

**Exterior Colors**

	code								
Tuxedo Black	19		•					•	•
Mulsanne Blue	26		•	•					•
Ascot Blue	24		•	•					•
Classic Copper	67		•					•	•
Placer Gold	53		•					•	•
Lime Green	43		•					•	•
Cottonwood Green	42		•					•	•
Antique Green	49		•					•	•
Burnt Orange	62		•					•	•
Cranberry Red	75		•					•	•
Rosewood Metallic	78		•					•	•
Sandalwood	61		•					•	•
Nevada 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		•				•

**10 / Chevelle 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, Muisanne Blue, Ascot Blue, Nevada Silver or Antique White
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.

Convertible Top Colors : Choice of white or black top available with all exterior colors.

Seat and Shoulder Belt Colors

interior trim color	standard style belts	custom deluxe belts*
Black	Black	Black
Dark Blue	Black	Dark Blue
Dark Jade	Black	Dark Jade
Saddle	Black	Beige
Sandalwood	Black	Sandalwood

\*Available at extra cost. Note: Standard seat and shoulder belt buckles black; custom deluxe buckles brush-finished

Colors for Sport Stripes (RPO D88) and Cowl Induction Hood (RPO ZL2)

exterior color	Sport Coupe without vinyl roof cover				Vinyl Roof Cover or Convertible Top			
	Regular Stripe Color	Optional Stripe Color RPO ZR8	Black vinyl or Convertible	White vinyl or Convertible	Blue vinyl	Brown vinyl	Green vinyl	
Tuxedo Black	White	White	White	White	White	White	White	
Muisanne Blue	Black	White	Black	White	Black	Black	White	
Ascot Blue	Black	White	Black	White	Black	Black	White	
Classic Copper	Black	White	Black	White	Black	Black	White	
Placer Gold	Black	White	Black	White	Black	Black	White	
Lime Green	Black	White	Black	White	Black	Black	White	
Cottonwood Green	Black	White	Black	White	Black	Black	White	
Antique Green	Black	White	Black	White	Black	Black	White	
Burnt Orange	Black	White	Black	White	Black	Black	White	
Cranberry Red	Black	White	Black	White	Black	Black	White	
Rosewood Metallic	Black	White	Black	White	Black	Black	White	
Sandalwood	Black	White	Black	White	Black	Black	White	
Nevada Silver	Black	White	Black	White	Black	Black	White	
Antique White	Black	White	Black	White	Black	Black	White	
Sunflower Yellow	Black	White	Black	White	Black	Black	White	
Two-tone combinations								
Muisanne Blue/Antique White	White	White	White	White	Black	Black	Black	
Placer Gold/Antique White	White	White	White	White	Black	Black	Black	
Antique Green/Antique White	White	White	White	White	Black	Black	Black	
Lime Green/Antique White	White	White	White	White	Black	Black	Black	
Burnt Orange/White	White	White	White	White	Black	Black	Black	
Sandalwood/Antique White	White	White	White	White	Black	Black	Black	

Engines, Transmissions and Axle Ratios

transmissions and rear axle ratios

engines	3-Speed (2.85:1 low)	3-Speed (2.54:1 low)	Special 3-Speed (2.42:1 low)	4-Speed (2.54:1 low)	4-Speed (2.52:1 low)	4-Speed (2.20:1 low)	Powerglide	Turbo Hydra-matic
Standard Six	3.08						3.08	3.08
Standard V8	3.08						3.08	2.73
(RPO L69)				3.36				2.56
245-hp (165 ▲) Turbo-Fire 350 V8								
(RPO L48)		3.31						2.73
270-hp (175 ▲) Turbo-Fire 350 V8								
(RPO LS3)				3.31				2.73
300-hp (250 ▲) Turbo-Jet 400 V8								
365-hp (295 ▲) Turbo-Jet 454 V8								3.31
(Available only with SS 454 RPO Z15)								
▲SAE net (as installed) horsepower								

Note: Postraction rear axle available in all axle ratios.

Equipment Included With Optional\* V8 Engines

	245-hp (165 ▲) 350	270-hp (175 ▲) 350	300-hp (250 ▲) 400 (rear only)	365-hp (295 ▲) 454
Heavier duty front and rear shock absorbers				•
Heavier front stabilizer bar				•
Rear suspension frame reinforcement	•	•	•	•
Ring gear—8.875" dia.				•
Single exhaust (2½-in. dia.)	•	•	•	•
Dual exhaust (2½-in. dia.)	•	•	•	•
Heavier duty clutch				•
F78 x 14 tires				•
Wide-oval F60 x 15 white lettered tires with 15 x 7 wheels				•
Heavy-duty battery				•
High-flow air cleaner				•
Higher performance starting motor	•	•	•	•
Special chrome air cleaner cover				•
Deep cover fuel pump and vapor return line to fuel tank				•

\*Optional at extra cost.

12 / Chevelle power teams

Transmissions	transmission gear ratios (:1)					shift selector locations			
	1	2	3	4	R	column	floor	console*	
3-Speed Fully Synchronized (Standard)	2.85	1.68	1.00		2.95	•			
3-Speed Fully Synchronized (RPO M11)	2.54	1.50	1.00		2.63		•		
Special 3-Speed Fully Synchronized (RPO MC1)	2.42	1.58	1.00		2.42		•		
4-Speed Fully Synchronized (RPO M20)	2.54	1.80	1.44	1.00	2.54		•		
4-Speed Fully Synchronized (RPO M22)	2.52	1.88	1.46	1.00	2.59		•		
4-Speed Fully Synchronized (RPO M22)	2.20	1.64	1.27	1.00	2.26		•		
Powerglide (RPO M35)	Standard Six	Drive (maximum)—3.82:1 to 1:1 Low and reverse—3.82:1 to 1.92:1					•		
	Standard V8	(Drive maximum)—5.29:1 to 1:1 Low 2—5.29:1 to 1.52:1 Low 1—5.29:1 to 2.52:1 Reverse—4.05:1 to 1.93:1							
Turbo Hydra-matic (RPO M40)	Standard V8	Drive (maximum)—5.21:1 to 1:1 Low 2—5.21:1 to 1.48:1 Low 1—5.21:1 to 2.48:1 Reverse—4.37:1 to 2.08:1					•		
	245-hp (165▲) V8								
	270-hp (175▲) V8								
	300-hp (260▲) V8								
	365-hp (285▲) V8								

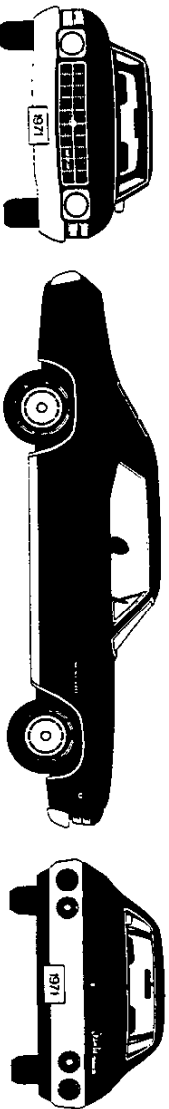
▲SAE net (as installed) horsepower \*Optional at extra cost

Clutches for Chevelle 3- and 4-Speed Transmission Power Teams		Standard V8	245-hp (165▲) V8	270-hp (175▲) V8	300-hp (260▲) V8	365-hp (285▲) V8
Clutch Type	Standard Six	Standard V8	245-hp (165▲) V8	270-hp (175▲) V8	300-hp (260▲) V8	365-hp (285▲) V8
	3-Speed	3-Speed	4-Speed	3- & 4-Speed	3- & 4-Speed	4-Speed
Clutch Type	diaphragm spring, with single dry disc					
Disc facing material	woven asbestos					
Disc facing outside diameter	9.12"	10.34"			11.00"	
Disc facing total area (sq. in.)	71.82	101.54			123.70	
Spring effective plate load (lbs.)	1650-1850	1900-2000	2100-2300		2450-2750	

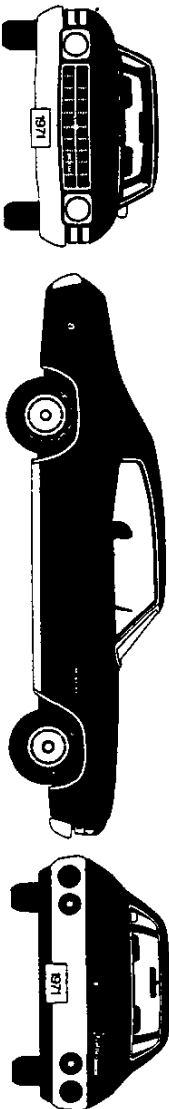
▲SAE net (as installed) horsepower

**MALIBU**

Malibu Sport Sedan



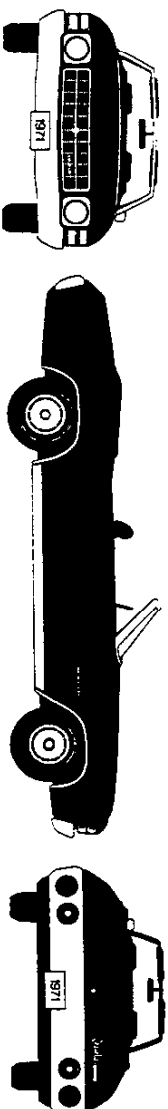
Malibu Sport Coupe



**454**  
SS Sport Coupe



Malibu Convertible

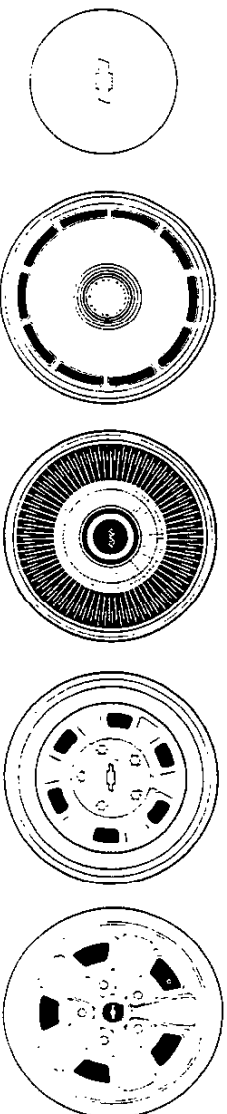


*Chevelle*  
BY CHEVROLET

Chevelle Sport Coupe



Chevelle 4-Door Sedan



Standard hub cap

Full Wheel Cover (RPO P01) — not available with SS

Custom Wheel Cover (RPO P02) — not available with SS

Rally Wheel (RPO Z17) — not available with SS

Sport Wheel — included with SS

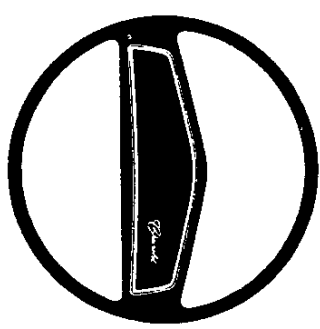
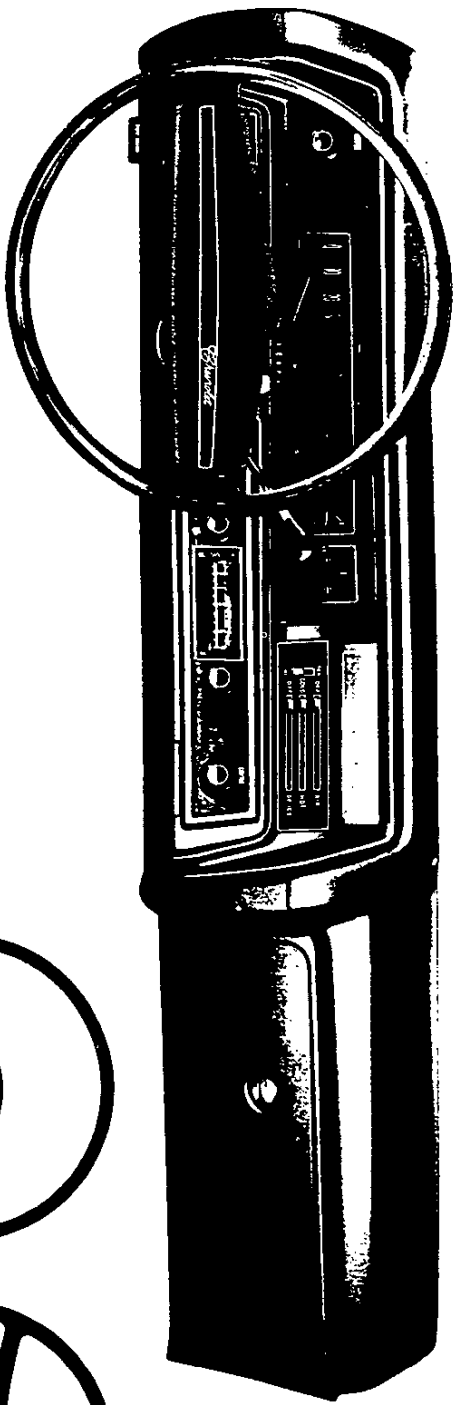
**14 / Chevelle exterior features**



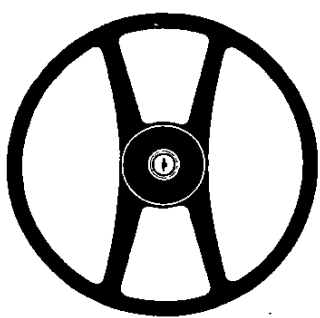
Chevelle and Malibu Exterior Features

	Chevelle	Malibu	SS
Silver-finish grille	•	•	•
Black-accented grille with SS emblem			•
Special domed hood with hood pins			•
Bright grille outline moldings		•	•
Windshield molding	•	•	•
Hood rear edge molding	•	•	•
Hide-A-Way windshield wipers	•	•	•
Clear lenses over parking/direction signal lights	•	•	•
Front fender engine emblem—(optional V8, only)	•	•	•454" only
Front fender nameplates—Malibu or SS	•	•	•
Full door-glass styling (Sport Coupe and Convertible only)	•	•	•
Rectangular outside rearview mirror	•	•	•
Bright roof drip moldings (except Convertible)		•	•
Side marker lights front and rear	•	•	•
Wide body sill moldings		•	•
Front and rear wheel opening moldings			•
Hub caps	•	•	•
Sport wheels			•
Wide-oval white-lettered tires			•
Rear window molding (except Convertible)	•	•	•
Chevelle nameplate on deck lid	•	•	•
Bumper-mounted taillights with silver-finish accents		•	•
Bumper-mounted SS emblem			•
Bright twin tailpipe extensions (454 V8 only)			•

Chevelle and Malibu Interior Features	Chevelle		Malibu		SS	
Oval steering wheel	•		•		•	
Black steering wheel and column with SS emblem					•	
Bright instrument cluster outline molding	•		•		•	
Special black-finish instrument panel and cluster					•	
Astro Ventilation vent-ports	(a)		(b)		•	
Automatic Ignition key alarm	•		•		•	
Illuminated heater control panel	•		•		•	
Glove compartment lock	•		•		•	
Glove compartment light			•		•	
Cigarette lighter	•		•		•	
Oil pressure, temperature, and generator warning lights	•		•		•	
Parking brake and brake system warning light	•		•		•	
Color-keyed turn signal and shift lever knobs	•		•		•	
Padded instrument panel and sun visors	•		•		•	
			(a) Sport Coupe only	(b) Sport Coupe and Convertible only		



Custom Steering Wheel (RPO NK2)



Sport Steering Wheel (RPO NK4)

# 16 / Chevelle interior features

Chevelle Interior Features

	Chevelle	Malibu	SS
Convenient T-handle parking brake release	•	•	•
Courtesy lights under instrument panel (Convertible only)		•	•
Suspended accelerator pedal	•	•	•
Foot-operated parking brake	•	•	•
Day-night rearview mirror	•	•	•
Scuff-resistant plastic cowl side panels	•	•	•
Armrests front and rear	•	•	•
Forward-mounted front door lock buttons	•	•	•
Pattern cloth and vinyl interior trim (except Convertible)	•	•	•
All-vinyl interior trim (standard on Convertible)	EC	EC	EC
All-vinyl Strato-bucket seats (Sport Coupe and Convertible only)		EC	EC
Color-keyed deep-twist carpeting		•	•
Center dome light (except Convertible)	•	•	•
Vinyl-coated luggage compartment mat		•	•

EC—Extra cost

Exterior Dimensions	Maltbu & Chevelle			
	Sport Sedan	Sport Coupe	Convertible	4-Door Sedan
Wheelbase	116.0	112.0	112.0	116.0
Length (overall)	201.5	197.5	197.5	201.5
Width (overall)	75.4	75.4	75.4	75.4
Height (loaded)	53.3	52.7	52.9	53.3
Front tread	60.0	60.0*	60.0*	60.0
Rear tread	59.9	59.9**	59.9**	59.9

\*SS: 61.3 \*\*SS: 60.3

Interior Roominess	Maltbu & Chevelle			
	Sport Sedan	Sport Coupe	Convertible	4-Door Sedan
Head room—front	38.1	37.5	38.3	38.5
Head room—rear	37.1	36.3	36.9	37.1
Leg room—front	42.8	42.8	42.8	42.7
Leg room—rear	34.9	32.3	32.3	35.0
Hip room—front	59.5	59.7	59.7	59.8
Hip room—rear	59.2	52.9	50.4	59.2
Shoulder room—front	58.4	58.2	58.2	58.2
Shoulder room—rear	57.2	56.9	56.9	57.3
Front entrance height	30.3	29.5	29.5	30.1
Rear entrance height	29.9	—	—	29.5

Luggage Compartment	Maltbu & Chevelle			
	Sport Sedan	Sport Coupe	Convertible	4-Door Sedan
Maximum opening width	48.5	48.5	48.5	48.5
Loading height	26.6	25.9	25.9	26.6
Interior length (max.)	49.0	49.0	49.0	49.0
Interior width (max.)	72.0	72.0	72.0	72.0
Interior height (max.)	18.0	18.0	18.0	18.0
Usable luggage space (cu. ft.)	13.5	12.8	9.0	12.8

# 18 / Chevelle specifications

Glass Area	Sport Sedan	Sport Coupe	Conv.	4-Door Sedan
Windshield glass area (sq. in.)	1249.6	1208.7	1211.8	1249.6
Rear window glass area (sq. in.)	1032.5	1059.4	539.7	1032.2
Total glass area (sq. in.)	3631.5	3602.1	3011.9	3472.8

**Tire Size & Steering Specifications**

Standard tire size—V8	E78 x 14*		
—Six	E78 x 14		
Turning circle—curb-to-curb (ft.)	42.2	42.2	42.2
Turning circle—wall-to-wall (ft.)	45.5	45.3	45.3
Steering ratio—std. (overall)	32.43		
Steering ratio—power (overall)	18.5:1 to 15.06:1		

\*SS—F60 x 15

**Fuel Capacity & Weight**

Rated fuel tank capacity (gallons)	19		
Curb weight—Six (lbs.)	3264/3306†	—	3302/3340†
Curb weight—V8 (lbs.)	3532	3476	3420/3460†
Shipping weight—Six (lbs.)	3164/3208†	—	3204/3242†
Shipping weight—V8 (lbs.)	3434	3378	3322/3362†

†Chevelle/Malibu

## 1970-76 CHEVROLET PRODUCTION OPTIONS

- |  |  |  |
|--|--|--|
| <p>AB7 Window — Rr. Quarter Louvered<br/>         AB8 Window — Rr. Qtr. Formal Style<br/>         AC3 Seat Adjuster — 6 Way Power. Bucket<br/>         AD3 Glass — Hinged Roof Window<br/>         AD7 Window — Rr. Qtr. Teardrop Less Louvers<br/>         AE1 Glass — Roof Panel<br/>         AG1 Seat Adjuster — 6 Way Power. Driver (60-40)<br/>         AG2 Seat Adjuster — 6 Way Power. Pass. (60-40)<br/>         AG7 Seat Adjuster — 6 Way Power. Driver (50-50)<br/>         AK1 Belts — Deluxe<br/>         AM6 Seat Asm. — Frt. Seat Split (60-40) W/Center Arm Rest<br/>         AM7 Folding Rear Seat Asm.<br/>         AN5 Seat Asm.—Pass. Reclining (40-40)<br/>         AN6 Seat Back — Adjustable. Driver<br/>         AN7 Seat Asm. — Bucket. Shell Type Swivel<br/>         AQ4 Seat Asm. — Sta. Wag. 3rd Seat<br/>         AQ9 Seat Asm. — Bucket. Pass. Reclining<br/>         AR5 Seat Asm. — Bucket. European Style<br/>         AR9 Seat Asm. — Bucket. European Style<br/>         AS4 Rear Seat Deluxe Shoulder Harness<br/>         AT6 Recliner Seat — RH Manual<br/>         AT8 Seat Asm. — Adjustable. (50-50) Pass. Reclining<br/>         AU1 Key — Single Car<br/>         AU3 Lock — Side Doors. Electric<br/>         AU4 Lock — Side Door. Electric Automatic<br/>         AU5 Lock — Seat Back &amp; Side Door. Electric<br/>         AU6 Lock Release — Tail Gate. Remote Control Electric<br/>         AU7 Key — Single — For Total Fleet<br/>         AV3 Cargo Tie Downs<br/>         AV7 Seat Asm. — Front (50-50)<br/>         AO1 Glass — Tinted. All Windows (Tinted Windshield)<br/>         AO2 Glass — Tinted. Windshield (Tinted Upper)<br/>         A20 Glass — Rear Qtr. Vent. Swing Out<br/>         A31 Window — Power Operated. All (Exc. Vent)<br/>         A39 Seat Belts—Frt., Rr., Ctr. Deluxe Type<br/>         A41 Frt. Seat Elec. CH—4-Way Bench Seat<br/>         A42 Seat Adjuster 6-Way Power. Single Unit<br/>         A44 Seat Adjuster<br/>         A46 Elec. 4-Way Seat Adjuster (L.H. Bucket Seat Only)<br/>         A50 Seat Asm. — Front Bucket — Formed<br/>         A51 Seat Asm. — Bucket (L &amp; R) Contour<br/>         A52 Seat Asm. — Bench<br/>         A65 Seat Back — Frt. Seat Split<br/>         A66 Seat Back — 2nd Seat Split<br/>         A75 Seat Asm. — Heavy Duty — Front</p> | <p>A76 H.D. Seat Cushion &amp; Back<br/>         A85 Shoulder Harness — Deluxe Frt.<br/>         A90 Lock Release — Rr. Compt. Lid. Remote Control Elec.<br/>         A99 Glove Box Lock<br/> <br/>         B84 Map Pocket<br/>         B88 Interior Ornam — Door Trim Mldg.<br/>         BC1 Interior Ornamentation — Wood Grain<br/>         BC5 Interior Ornam — Load Compt. — Carpet<br/>         BF2 Carpet — Floor Covering — Deluxe<br/>         BG1 Floor Mat — Heavy Duty<br/>         BG9 Covering — Floor — Rubber<br/>         BS1 Quiet Sound Group<br/>         BS2 Acoustical Package<br/>         BW2 Moulding — Body Side Protection<br/>         BW6 Exterior Decor Package<br/>         BW7 Ext. Ornam — Pillar Applique<br/>         BX1 Ext. Ornam — Front End Panel<br/>         BX3 Exterior Ornamentation — Wood Grain Side Panel<br/>         BX6 Ext. Ornam — Mldg. and Applique<br/>         BX7 Door Edge Guards<br/>         BX8 Molding — Used W/Two Tone Paint<br/>         BX9 Ornam — Front End Panel<br/>         BY1 Ext. Ornam — Body Emblem<br/>         BY2 Police Body Equipment<br/>         BY4 Int. Ornam — Inst. Panel Monogram<br/>         B10 Lock — Power Tail Gate<br/>         B3X Estate Equipment<br/>         B02 Special Body — Taxi Cab<br/>         B07 Special Body — Police Car.<br/>         B09 H.D. Police Package<br/>         B22 Emblem — Door<br/>         B26 Handle — Door Pull Interior<br/>         B28 Floor Mats — Carpet Insert<br/>         B30 Carpet — Floor Covering<br/>         B32 Mat — Front Floor Throw<br/>         B33 Mat — Rear Floor Throw<br/>         B34 H.D. Frt. Floor Mats<br/>         B35 H.D. Rr. Floor Mats<br/>         B36 Mat — Luggage Compartment<br/>         B37 Floor Mats — Front &amp; Rr.<br/>         B39 Carpet — Load Floor and Deck Lid<br/>         B44 Carpet — Load Floor Seat Back<br/>         B48 Luggage Compt. Trim<br/>         B51 Moulding — Rocker Panel Wide<br/>         B65 Trunk Asm. — Floor Cover<br/>         B71 Exterior Ornam — Custom Whl. Opening Mldgs.<br/>         B75 Lining — Luggage Compt.<br/>         B77 Molding — Windshield Reveal<br/>         B79 Exterior Ornamentation — Rr. End<br/>         B80 Molding — Roof Drip<br/>         B83 Molding — Rocker Panel<br/>         B84 Molding — Body Side<br/>         B85 Molding — Belt Reveal<br/>         B86 Molding — Custom Rear Qtr. Lower<br/>         B89 Molding — Back Window Reveal</p> | <p>B90 Molding — Side Window Reveal<br/>         B93 Guards — Door Edge<br/>         B94 Emblem — Body "GT"<br/>         B95 Applique — Pillar<br/>         B96 Molding — Wheel Opening<br/>         B97 Spoiler<br/> <br/>         CA1 Roof — Steel Sliding Sun. Electric<br/>         CB4 Vinyl Padded Roof (Integral Pad) — Rear<br/>         CB5 Vinyl Padded Roof(W/¼" Pad) — Full<br/>         CB7 Vinyl Padded Roof (Integral Pad) — Front<br/>         CC1 Panels — Removable Roof Hatch<br/>         CD2 W/S Washer Jar Fluid Level Monitor<br/>         CD4 Washer &amp; Wiper — Windshield. Pulse System<br/>         CF4 Roof — Sliding Sun<br/>         CF5 Astro Roof — Elec.<br/>         CD4 Vinyl Padded Roof (w/¼" Pad) — Rear<br/>         CO9 Vinyl Padded Roof (Integral Pad) — Full<br/>         C18 Black Windshield Wiper and Blade<br/>         C24 Wipers — Recess Parked<br/>         C41 Heater &amp; Defroster — Outside Air<br/>         C46 Heater — Hi-Flow<br/>         C49 Defogger — Rear Window. Electric<br/>         C50 Defogger — Rear Window<br/>         C51 Deflector — Station Wagon Air<br/>         C54 Heated Rr. Window Defogger<br/>         C60 Air Conditioner — Manual Cont.<br/>         C61 Air Conditioner — Auto. Cont.<br/>         C65 Air Conditioner — Semi-Auto. Cont.<br/>         C80 Switch — Frt. Door Jamb<br/>         C81 Switch — Rear Door Jamb<br/>         C87 Lamp — Rear Qtr. Courtesy<br/>         C88 Lamp — Rear Compt. Courtesy<br/>         C90 Lamp — Combination Courtesy &amp; Door Wiring<br/>         C91 Lamp — Front Dome<br/>         C93 Lamp — Opera — Exterior Lock Pillar or Sail Panel<br/>         C95 Lamp — Dome &amp; Reading<br/>         C97 Lamp Courtesy — Door Handle Operated<br/> <br/>         DF3 Mirror — Remote Control RH. Chrome<br/>         DH5 Mirror — Visor Vanity — Left<br/>         DJ9 Mirror — Rear View RH. Sport Type<br/>         DL1 Decals and Stripes<br/>         DX4 Tape — Accent Stripes<br/>         DX9 Tape — Accent Stripes<br/>         D24 Litter Container<br/>         D31 Mirror — Inside Tilt Rearview (Non Glare)<br/>         D33 Mirror — Remote Control LH. Chrome<br/>         D34 Mirror — Visor Vanity<br/>         D35 Mirror — Remote Control LH. Custom</p> |
|--|--|--|

## 1970-76 CHEVROLET PRODUCTION OPTIONS

T33 \_\_\_ Nameplate — Front Fender  
 T41 \_\_\_ Hood — Special Sheet Metal  
 T44 \_\_\_ Lock — Hood Interior Operated  
 T52 \_\_\_ Ornamentation — Front  
 T53 \_\_\_ Molding — Front Fender  
 T58 \_\_\_ Skirt — Rear Wheel Opening  
 T60 \_\_\_ Battery Case — H.D. Plastic  
 T63 \_\_\_ Headlamp — On Warning System (Buzzer)  
 T70 \_\_\_ Lamp Group  
 T81 \_\_\_ Headlamp Delay Package  
 T82 \_\_\_ On-Off Control — Headlamp Automatic  
 T87 \_\_\_ Lamps — Cornering  
 T93 \_\_\_ Lamp — Tail & Stop Reflex Asm.

UA1 \_\_\_ Battery — Heavy Duty  
 UB7 \_\_\_ Cluster Asm. — Warning and Trip Odometer  
 UE8 \_\_\_ Clock — Electric (Digital)  
 UF3 \_\_\_ Lamp — Map (W/Sun Visor Support)  
 UF7 \_\_\_ Cluster — Oil Temp., Volt Meter, Fuel Economy  
 UF8 \_\_\_ Switch — Dimmer Headlamp  
 UH1 \_\_\_ Lamp Monitor — Electric  
 UM1 \_\_\_ AM Radio & 8 Track Tape Player  
 UM2 \_\_\_ AM-FM Stereo Radio & 8 Track Tape Player  
 UN9 \_\_\_ Radio Suppression Equip.  
 UO5 \_\_\_ Dual Horns  
 UR1 \_\_\_ Fuel Economy Vacuum Gauge  
 UX6 \_\_\_ Front Dual Speakers  
 UX9 \_\_\_ Speaker — Front  
 UY8 \_\_\_ Radio — AM/FM — Digital Clock  
 UO5 \_\_\_ Dual Horns  
 UO9 \_\_\_ Horn — Four Note  
 U11 \_\_\_ Police Car Speedo  
 U14 \_\_\_ Rally Gauge — Tach & Clock  
 U15 \_\_\_ Speed Alert — Trip Odometer  
 U18 \_\_\_ Kilo Speedo  
 U21 \_\_\_ Instrument Panel Gauges  
 U25 \_\_\_ Lamp — Luggage Compt.  
 U26 \_\_\_ Lamp — Engine Compt.  
 U27 \_\_\_ Lamp — Inst. Panel Compt.  
 U28 \_\_\_ Lamp — Ash Tray  
 U29 \_\_\_ Lamp — Inst. Panel Courtesy  
 U30 \_\_\_ Instrument Gauges  
 U35 \_\_\_ Electric Clock  
 U37 \_\_\_ Lighter — Cigar  
 U38 \_\_\_ Warning System — Low Coolant  
 U41 \_\_\_ Indicator — Low Fuel  
 U46 \_\_\_ Monitor — External Lamp  
 U57 \_\_\_ Player — Tape  
 U58 \_\_\_ Radio — Stereo (W/Antenna)  
 U63 \_\_\_ Radio — Pushbutton Control (W/Antenna)  
 U69 \_\_\_ Radio — AM-FM (W/Antenna)  
 U75 \_\_\_ Antenna — Power  
 U76 \_\_\_ Antenna — Windshield Embedded  
 U80 \_\_\_ Speaker — Rear Auxiliary  
 U81 \_\_\_ Speaker — Rear, Dual  
 U89 \_\_\_ Wiring Harness — Car Trailer (5 Wire)  
 U90 \_\_\_ Wiring Harness — Roof Flasher  
 U94 \_\_\_ Light Cable — Trailer (7 Wire)

VE5 \_\_\_ Strip — Front & Rr. Bumper Impact  
 VF6 \_\_\_ Bumper — Rear Step  
 VG4 \_\_\_ Protector — Bumper Filler  
 VG8 \_\_\_ Bumper — Rear With Vinyl Insert  
 VJ9 \_\_\_ Exhaust Emission Level (Calif. Cars)  
 VK1 \_\_\_ License Plate — Frt. Mounting Pkg.  
 VK3 \_\_\_ Mounting — Frt. Lic. Plate  
 V01 \_\_\_ Radiator — Heavy Duty (Var. 1)  
 V02 \_\_\_ Radiator — Heavy Duty (Var. 2)  
 V30 \_\_\_ Guards — Frt. & Rr. Bumper  
 V31 \_\_\_ Guards — Front Bumper (Chrome)  
 V32 \_\_\_ Guards — Rear Bumper — (Chrome)  
 V55 \_\_\_ Carrier — Roof Luggage  
 V56 \_\_\_ Lock & Trim — Luggage Compartment  
 V65 \_\_\_ Bumper — Light Duty  
 V81 \_\_\_ Trailer Provisions — SAE Class 1 (2000 lbs.)  
 V82 \_\_\_ Trailer Provisions — SAE Class 2 (3500 lbs.)  
 WA3 \_\_\_ Power Seat — 6 Way (Pass. & Driver)  
 WA5 \_\_\_ Dual Speakers (Frt. & Rear)  
 WB2 \_\_\_ AM Stereo Radio Tape  
 WB3 \_\_\_ AM-FM Stereo Radio Tape  
 BW4 \_\_\_ AM-FM Stereo Radio  
 WB6 \_\_\_ Gauges — Instrument Cluster W/Clock  
 WB7 \_\_\_ Vinyl Roof — Rear Vinyl (Pad Attached)  
 WC2 \_\_\_ Moulding Package  
 WC4 \_\_\_ Convenience Group  
 WC9 \_\_\_ Exhaust Emission Group (Calif.)  
 WD3 \_\_\_ Appearance Group  
 WD4 \_\_\_ Accessory Package  
 WF5 \_\_\_ Custom Trim Group  
 WH3 \_\_\_ Appearance Group  
 WH4 \_\_\_ Tachometer & Clock  
 WH5 \_\_\_ Handling Package  
 WJ7 \_\_\_ Leather — Custom  
 W02 \_\_\_ Wood Grain Group  
 WT1 \_\_\_ Suspension — Bias Tire  
 WU2 \_\_\_ G.T. Option  
 WU7 \_\_\_ Third Seat — Wagon  
 WW8 \_\_\_ Instrument Panel Tach., Rally Clock, Gauges  
 WY5 \_\_\_ Suspension — Radial Tuned  
 W20 \_\_\_ Convenience Group  
 W50 \_\_\_ Appearance Group  
 W60 \_\_\_ Appearance — Special Esprit  
 W61 \_\_\_ Decor — Simulated Wood  
 W62 \_\_\_ Luxury Appointment Group  
 W63 \_\_\_ Rally Clock & Gauges  
 W66 \_\_\_ 400 Sport Option  
 W71 \_\_\_ Seat — Custom Front & Rear  
 YC6 \_\_\_ Estate Wood Grain — Vega  
 YD1 \_\_\_ Towing Package  
 YE4 \_\_\_ Exterior & Interior Deluxe  
 YF3 \_\_\_ "Heavy Chevy" Exterior Decor  
 YF4 \_\_\_ Guard & Strip — Bumper  
 YF8 \_\_\_ Black Paint Stripe  
 YJ8 \_\_\_ Cast Aluminum Wheels

YJ9 \_\_\_ Exterior Decor Package  
 Y02 \_\_\_ Seat — Front Custom  
 Y03 \_\_\_ Seat — Rear Custom  
 Y05 \_\_\_ Deadener — Floor  
 Y07 \_\_\_ Molding — Side Window Reveal  
 Y10 \_\_\_ Custom Doors and Qtr.  
 Y11 \_\_\_ Seat — Front — Special Design  
 Y12 \_\_\_ Seat — Rear — Special Design  
 Y19 \_\_\_ Molding — Body Side Lower  
 Y40 \_\_\_ Heavy Duty Cooling  
 Y51 \_\_\_ Molding Group  
 Y53 \_\_\_ Frt. & Rr. Bumper Guards  
 Y56 \_\_\_ Accessory Group  
 Y60 \_\_\_ Convenience Group  
 Y62 \_\_\_ Instrument Cluster — Special Features  
 Y66 \_\_\_ SX Package  
 Y67 \_\_\_ Low Washer Fluid Level Indicator  
 Y70 \_\_\_ Stripe — Decal  
 Y71 \_\_\_ Outside Temp. Indicator  
 Y72 \_\_\_ H.D. Engine Cooling  
 Y74 \_\_\_ Moldings — Rocker and Wheel Opng.  
 Y79 \_\_\_ Appearance Option  
 Y82 \_\_\_ Golden Anniversary  
 Y83 \_\_\_ LJ Option  
 Y90 \_\_\_ Custom Trim  
 Y92 \_\_\_ Lamp Group  
 Y96 \_\_\_ Firm Ride Option  
 Y97 \_\_\_ SJ Option  
 Y99 \_\_\_ Handling Package  
 ZE2 \_\_\_ Olympic Edition Program Content  
 ZJ1 \_\_\_ Custom Interior  
 ZJ2 \_\_\_ Custom Exterior  
 ZJ3 \_\_\_ Interior Decor and Convenience Group  
 ZJ4 \_\_\_ Seat Belt, Check Doors, Low Fuel Warning Lites  
 ZJ5 \_\_\_ Exterior Decor  
 ZK7 \_\_\_ Noise Level Control  
 ZL2 \_\_\_ Special Ducted Hood Air System  
 ZL9 \_\_\_ Luxury Interior  
 ZN5 \_\_\_ Color Coded Rally Wheels  
 ZX5 \_\_\_ Appearance Group  
 Z01 \_\_\_ "Spyder" Model  
 Z02 \_\_\_ Spyder Appearance Equipment  
 Z03 \_\_\_ Landau Equipment  
 Z06 \_\_\_ Luxury Interior Trim  
 ZP5 \_\_\_ Appearance Guard Group  
 ZQ2 \_\_\_ Operating Convenience Group  
 ZQ9 \_\_\_ Rr. Axle Performance Ratio  
 ZR8 \_\_\_ Sport Stripes — White  
 Z10 \_\_\_ Impala "LX" Package  
 Z15 \_\_\_ S.S. Model  
 Z20 \_\_\_ Paint — Two-Tone Accent Pkg.  
 Z20 \_\_\_ Two Tone Accent Package  
 Z21 \_\_\_ Style Trim  
 Z25 \_\_\_ "SS" 396 Package  
 Z26 \_\_\_ S.S.  
 Z29 \_\_\_ G.T. Option  
 Z54 \_\_\_ Interior Decor/Quiet Sound Group  
 Z60 \_\_\_ Monza Towne Coupe  
 Z76 \_\_\_ Monte Carlo "S" Package  
 Z85 \_\_\_ Rally Sport Equipment  
 Z95 \_\_\_ Catalytic Converter Deletion  
 Z95 \_\_\_ Leaded Fuel Option

# 1971 AMA SPECIFICATIONS FORM ... Passenger Car

MANUFACTURER  <p style="text-align: center;">Chevrolet Motor Division General Motors Corporation</p>	CAR NAME  <p style="text-align: center;">CHEVELLE</p>	
ORIGINAL COPY	MODEL YEAR  <p style="text-align: center;">1971</p>	ISSUED <p style="text-align: center;">9/70</p>
		REVISED (●) <p style="text-align: center;">12/70</p>

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 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 CHEVELLE 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.	
	L-6	V-8
	<u>Engine</u>	<u>Engine</u>
<u>CHEVELLE</u>		
2-Door Sport Coupe, 5-Passenger	13337	13437
4-Door Sedan, 6-Passenger	13369	13469
<u>MALIBU</u>		
2-Door Sport Coupe, 5-Passenger	13537	13637
4-Door Sport Sedan, 6-Passenger	13539	13639
2-Door Convertible, 5-Passenger	13567	13667
4-Door Sedan, 6-Passenger	13569	13669
<u>STATION WAGONS</u>		
Nomad, 4-Door, 2-Seat	13136	13236
Greenbrier, 4-Door, 2-Seat	- -	13436
Greenbrier, 4-Door, 3-Seat	- -	13446
Concours, 4-Door, 2-Seat	- -	13636
Concours, 4-Door, 3-Seat	- -	13646
Concours Estate, 4-Door, 2-Seat	- -	13836
Concours Estate, 4-Door, 3-Seat	- -	13846
<u>EL CAMINO</u>		
Standard 2-Door Sedan Pick-up, 3-Passenger	13380	13480
Custom 2-Door Sedan Pick-up, 3-Passenger	- -	13680

MAKE OF CAR CHEVELLE 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.	4-Door Sedan	2-Door Spt. Cpe.	4-Door Spt. Sedan	Convertible	Station Wagon	Sedan Pickup
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**WIDTH**

Track - Front	W101	60.0				59.3*	
Track - Rear	W102	59.9				59.2	
Maximum overall car width	W103	75.4					
Body width at No. 2 pillar	W117						

**LENGTH**

Body "O" to front of dash	L 30	0.0					
Wheelbase	L101	116.0	112.0	116.0	112.0	116.0	
Overall car length	L103	201.5	197.5	201.5	197.5	206.8	
Overhang - front	L104	37.8					
Overhang - rear	L105	47.7				53.0	
Body upper structure length	L123						
Body "O" line to $\Phi$ of rear wheel	L127	99.5	95.5	99.5	95.5	99.5	
Body "O" line to w/s cowl point	L130						

**HEIGHT**

Passenger Distribution (front & rear)		2-3				2-3-2(a)	2 Front	
Trunk/Cargo load (lbs.)		200				300	800	
Overall height	H101	53.3	52.7	53.3	52.9	54.4		
Cowl height	H114	38.0	38.1	38.0	38.1	39.4	39.1	
Deck height	H138							
Rocker panel - front	To ground	H112	8.5	8.6	8.5	8.6	9.8	9.4
	From front wheel $\Phi$							
Rocker panel - rear	To ground	H111	7.5	7.2	7.5	7.2	9.2	8.5
	From rear wheel $\Phi$							
Windshield slope angle	H122							

**GROUND CLEARANCE**

Bumper to ground - front	H102	13.8	14.3	13.8	14.3	15.0	
Bumper to ground - rear	H104	15.7	15.1	15.7	15.1	12.9	11.9
Angle of approach	H106	22.1	25.6	22.0	25.6	25.2	25.4
Angle of departure	H107	21.1	20.7	21.0	20.5	17.0	16.5
Ramp breakover angle	H147	13.4	13.8	13.3	13.7	15.5	15.0
Min. running clearance (Specify) (b)	H156	4.7	4.6	4.7	4.6	6.2	5.7

\* - 60.2 with disc brakes.

(a) - 3-seat wagon.

(b) - Exhaust system to ground

MAKE OF CAR CHEVELLE 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)

MODEL	SAE Ref. No.	4-Door Sedan	2-Door Spt. Cpe.	4-Door Spt. Sedan	Convert-ible	Station Wagon	Sedan Pickup
<b>FRONT COMPARTMENT</b>							
Effective head room	H61	38.5	37.5	38.1	38.3	38.3	38.2
Max. eff. leg room - accelerator	L34	42.7			42.8		42.5
H Point to Heel point	H30			8.1			
H Point travel	L17			4.8			
Shoulder room	W 3	58.2	58.2	58.4	58.2	58.3	58.2
Hip room	W 5	59.8	59.7	59.5	59.7	59.5	59.8
Upper body opening to ground	H50	48.6	48.5	49.1	48.6	50.0	

**REAR COMPARTMENT**

H Point couple distance	L50	32.8	30.6	32.8	30.6	32.8	--
Effective head room	H63	37.1	36.3	37.1	36.9	38.6	--
Min. effective leg room	L51	35.0	32.3	34.9	32.3	34.8	--
H Point to Heel point	H31	10.8	10.1	10.7	10.1	10.6	--
Min. knee room	L48	2.3	0.7	2.3	0.7	2.3	--
Rear Compartment room	L 3	25.8	23.7	25.8	23.7	26.1	--
Shoulder room	W 4	57.3	56.9	57.2	56.9	57.4	--
Hip room	W 6	59.2	52.9	59.2	50.4	59.3	--
Upper body opening to ground	H51	48.2		48.6		49.8	--

**LUGGAGE COMPARTMENT**

Usable luggage capacity	V 1	12.8	12.8	13.5	9.0	--	--
Liftover height	H195	26.6	25.9	26.6	25.9	--	28.7
Position of spare tire storage		Horizontal; right side of trunk				(b)	(a)
Method of holding lid open		Boxed hinges with torsion rod				--	--

**STATION WAGON - THIRD SEAT**

Shoulder Room	W85					57.5	
Hip room	W86					47.0	
Effective leg room	L86					30.6	
Effective head room	H86					35.9	
Seat facing direction						Rearward	

**STATION WAGON - CARGO SPACE**

Cargo length at floor - front seat	L202					90.9	79.3
Cargo length at belt - front seat	L204					79.9	--
Cargo width - Wheelhouse	W201					44.5	45.3
Opening width at belt	W204					49.6	--
Maximum cargo height	H201					31.6	--
Rear opening height	H202					28.6	--
Cargo volume index (cu. ft.) <small>W4 x L204 x H201 1728</small>	V2					94.0	38.5

(a) - Behind passenger's seat.

(b) - Rear quarter.

Page 4A **AMA Specifications Form — Passenger Car**

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (\*) 12/70  
**CHEVELLE & MALIBU MODELS**

**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 ** (Std. first) (Indicate A/C ratio)					
	Displ. cu. in.	Carb	Compr. Ratio	BHP @ RPM		Torque @ RPM			A	B	C			
				Gross	Net	Gross	Net							
All Models except Convertible & Sport Sedan	Turbo Thrifty 250 L6 (base)	One; 4-bbl	8.5:1	145	110	230	185	3-Speed Manual (2.85:1 low) 2-Spd. Automatic	3.08	--	--			
				@ 4200	@ 3800	@ 1600	@ 1600							
All Models	Turbo Fire 307 V8 (base)	One; 2-bbl	8.5:1	200	140	300	235	3-Speed Manual (2.85:1 low)	3.08	--	--			
				@ 4600	@ 4400	@ 2400	@ 2400	2-Spd. Automatic*						
								3-Spd. Automatic*				2.73	3.08	3.31
	Turbo Fire 350 V8 (L65)*	One; 2-bbl	8.5:1	245	165	350	280	● 4-Speed Manual* (2.54:1 low)	3.36	--	--			
				@ 4800	@ 4000	@ 2800	@ 2400	3-Spd. Automatic*				2.56	--	3.31
Turbo Fire 350 V8 (L48)*	One; 4-bbl	8.5:1	270	175	360	290	3-Speed Manual (2.54:1 low)	3.31	--	--				
			@ 4800	@ 4000	@ 3200	@ 2400	4-Speed Manual* (2.54:1 low)				3.31	--	--	
							3-Spd. Automatic*				2.73	--	3.31	
Turbo Jet 400 V8 (402CI (LS3)*	One; 4-bbl	8.5:1	300	260	400	345	H.D. 3-Spd. Man. (2.42:1 low)	3.31	--	--				
			@ 4800	@ 4400	@ 3200	@ 3200	4-Speed Manual* (2.52:1 low)				3.31	--	--	
							3-Spd. Automatic*				2.73	--	3.31	
Sport Coupe and Convertible	Turbo Jet 454 V8 (LS5)* (Z15)	One; 4-bbl	8.5:1	365	285	465	390	H.D. 4-Spd. Man. (2.20:1 low)	3.31	--	--			
				@ 4800	@ 4000	@ 3200	@ 3200	3-Spd. Automatic*						
	Turbo Jet 454 V8 (LS6)* (Z15)	One; 4-bbl	9.0:1	425	325	475	390	H.D. 4-Spd. Man. (2.20:1 low)	3.31	4.10	--			
				@ 5600	@ 5600	@ 4000	@ 3600	3-Spd. Automatic*						
*-Optional														
**-Positraction required for 4.10 ratio, available optionally for all other ratios														
#-Same ratios available for Air Conditioning (V8 engines only)														

A-Standard

B-Performance Option

C-Trailer Option

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (a) 12/70

STATION WAGONS & PICKUPS

**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 ** (Std. first)		
	Displ. cu. in.	Carb	Compr. Ratio	BHP @ RPM		Torque @ RPM			"A" (Indicate A/C ratio) #		
				Gross	Net	Gross	Net		"A"	"B"	"C"
● Nomad & Standard Pickup Only	Turbo-Thrift 250-L6 (base)	One; 1-bbl	8.5:1	145	110	230	185	3-Spd. manual (2.85:1 low)	3.36	----	----
				@	@	@	@	2-Spd. automatic*			
	Turbo-Fire 307-V8 (base)	One; 2-bbl	8.5:1	200	140	300	235	3-Spd. manual (2.85:1 low)	3.36	----	----
				@	@	@	@	2-Spd. automatic*			
	Turbo-Fire 350-V8 (L65)*	One; 2-bbl	8.5:1	245	165	350	280	3-Spd. automatic*	3.36	----	----
				@	@	@	@	4-Spd. manual (2.54:1 low)			
	Turbo-Fire 350-V8 (L48)*	One; 4-bbl	8.5:1	270	175	360	290	3-Spd. manual (2.54:1 low)	3.31	----	----
				@	@	@	@	4-Spd. manual* (2.54:1 low)			
	Turbo-Jet 400-V8 (402C) (LS3)*	One; 4-bbl	8.5:1	300	260	400	345	3-Spd. automatic*	2.73	----	3.31
				@	@	@	@	HD 3-Spd. manual (2.42:1 low)			
	Turbo-Jet 454-V8 (LS5)* (Z15)	One; 4-bbl	8.5:1	365	285	465	390	HD 4-Spd. manual (2.20:1 low)	3.31	----	----
				@	@	@	@	3-Spd. automatic*			
Pickup Models Only	Turbo-Jet 454-V8 (LS6)* (Z15)	One; 4-bbl	9.0:1	425	325	475	390	HD 4-Spd. manual (2.20:1 low)	3.31	4.10	----
				@	@	@	@	3-Spd. automatic*			
*-Optional **-Positraction required for 4.10 ratio; available optionally for all other ratios #-Same ratios available optionally for Air Conditioning (V8-engines only) A-Standard      B-Performance option      C-Trailer option											

## AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

MODEL	Turbo-Thrift 250 L6-145 HP	Turbo-Fire 307 V8-200 HP	Turbo-Fire 350 V8-245 HP
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## ENGINE - GENERAL

Type, no. cyls., valve arr.	In-line 6 OHV	90° V-8 OHV	
Bore and stroke (nominal)	3.875 x 3.53	3.875 x 3.25	4.00 x 3.48
Piston displacement, cu. in.	250	307	350
Bore spacing (C to C)	4.40		
No. system (front to rear)	L. Bank	1-2-3-4-5-6	1-3-5-7
	R. Bank	In-line	2-4-6-8
Firing order	1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Compress. ratio (nominal)	8.5:1		
Cylinder Head Combustion Chamber Volume (cc)	93.88	87.15	99.61
Cylinder Head Material	Cast alloy iron		
Cylinder Block Material	Cast alloy iron		
Cyl. Sleeve-Wet, dry, none	None		
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle	3° 16'		
Taxable horsepower	36.0	48.0	51.2
Recommended fuel regular - premium	Regular		

## ENGINE - PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat head, notched; slipper skirt		Sump head slipper skirt
Weight (piston only) oz.	20.24	22.00	21.50
Clearance (limits)	Top land	.0245-.0335	.0235-.0325
	Skirt	Top	.0005-.0011 (a)
		Bottom	.0005-.0015 (b)
Ring groove diameter	No. 1 ring	3.434-3.444	3.546-3.556
	No. 2 ring	3.434-3.444	3.546-3.556
	No. 3 ring	3.446-3.456	3.582-3.592
	No. 4 ring		

- (a) - Measured 2.44 from top of piston  
(b) - Measured 1.675 from top of piston  
(c) - Measured 1.56 from top of piston

# AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

MODEL	Turbo-Fire 350	Turbo-Jet 400	Turbo-Jet 454	
	V8-270 HP	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	L. Bank	1-3-5-7		
(front to rear)	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 mtg. points	Front	Two		
	Rear	One		
Engine installation angle	4° 46'			
Taxable horsepower	Dia <sup>2</sup> xNo. Cyl. 2.5		51.2	54.5
Recommended fuel regular - premium	Regular			

## ENGINE - PISTONS

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

- (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	CHEVELLE	MODEL YEAR	1971	DATE ISSUED	9/70	REVISED (e)
MODEL	L6-250 145 HP	V8-307 200 HP	V8-350 245 & 270 hp	V8-400 300 HP	V8-454 365 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)	(d)	(e)	(f)	
	Gap	.010-.020	(g)	.010-.020		
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails - steel, chrome plated O.D.; expander - stainless steel				
	Width	.1870-.1890 assembled				
	Gap	.015-.055				.010-.030
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 - in rod or piston ring	None			
	Material				
Clearance	In piston	.00015-.00025		(h)	.00030-.00040
	In rod				
Direction & amount offset in piston	Major thrust side .060				

## ENGINE - CONNECTING RODS

Material	Drop forged steel				
Weight (oz.)	12.50	20.80	27.84		
Length (center to center)	5.695-5.705		6.130-6.140		
Bearing	Material & Type	Copper lead alloy Steel backed		Premium aluminum	
	Overall length	.807	.797	.847	
	Clearance (limits)	.0007-.0027	.0013-.0035	.0009-.0029	
	End play	.009-.014	.008-.014	.015-.023	

(a) Chrome plate on L6-250, V8-307 and 350; molybdenum inlay on V8-400 and 454

(b) Chrom plate on V8-400 only; wear resistant coating all other

(c) Upper .0775-.0780; lower .0770-.0780

(d) Upper .0775-.0780; lower .0770-.0775

(e) Upper and lower .0770-.0780

(f) Upper and lower .0770-.0775

(g) Upper .010-.020; lower .013-.025

(h) .00025-.00035

(i) .00030-.00040

(j) .00045-.00055

# AMA Specifications Form—Passenger Car

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

	L6-250 145 HP	V8-307 200 HP	V8-350 245 HP & 270 HP	V8-400 300 HP	V8-454 365 HP   425 HP
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## ENGINE - CRANKSHAFT

Material		Cast nodular iron			Forged steel		
Vibration damper type		Rubber mounted inertia					
End thrust taken by bearing (No.)		7			5		
Crankshaft end play		.002-.006			.006-.010		
Material & type		Steel backed insert; copper lead alloy or premium aluminum lining selected for specific application					
Clearance		.0003-.0029		(a)	(b)		
Main bearing	Journal dia. and bearing overall length	No. 1	2.3004x.752	2.4502x.752	2.7509x.992	2.7509x.992	
		No. 2	2.3004x.752	2.4502x.752	2.7505x.992	2.7505x.992	
		No. 3	2.3004x.752	2.4502x.752	2.7505x.992	2.7505x.992	
		No. 4	2.3004x.752	2.4502x.752	2.7505x.992	2.7505x.992	
		No. 5	2.3004x.752	2.4508x1.177	2.7505x1.253	2.7505x1.253	
		No. 6	2.3004x.752	None			
		No. 7	2.3004x.760	None			
Dir. & amt. cyl. offset		None					
No. bolts/main brg. cap		14 & 7		10 & 5	16 & 5	10 & 5   20 & 5	
Crankpin journal diameter		1.999-2.000		2.099-2.100	2.199-2.200		

## ENGINE - CAMSHAFT

Location		(c)		In block above crankshaft			
Material		Cast alloy iron					
Bearings	Material	Steel backed babbitt					
	Number	4		5			
Type of Drive	Gear or chain	Gear		Chain			
	Crankshaft gear or sprocket material	Steel		Steel sprocket			
	Camshaft gear or sprocket material	(d)		Nylon teeth with aluminum hub			
	Timing chain	No. of links	None		46	50	
		Width	None		.740	.740	
Pitch		None		.500	.500		

(a) No. 1 - .0008-.0020

No. 2, 3 &amp; 4 - .0011-.0023

No. 5 - .0017-.0033

(b) No. 1 - .0007-.0019

No. 2, 3 &amp; 4 - .0013-.0025

No. 5 - .0019-.0035

(c) Above and to right of crankshaft

(d) Bakelite and fabric composition with steel hub

# AMA Specifications Form—Passenger Car

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

MODEL	L6-250	V8-307	V8-350	V8-400	V8-454
	145 IIP	200 HP	245 HP	270 IIP	300 IIP
					365 IIP
					425 HP

## ENGINE - VALVE SYSTEM

Hydraulic lifters Std. opr., NA Standard NA

Valve rotator, type (intake, exhaust) None

Rocker ratio 1.75:1 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)	16°	28°	28°	56°	44°
		Closes (ABC)	48°	72°	78°	114°	92°
		Duration - deg.	244°	280°	286°	350°	316°
	Exhaust	Opens (BBC)	46° 30'	78°	75°	110°	86°
		Closes (ATC)	17° 30'	30°	31°	62°	36°
		Duration - deg.	244°	288°	286°	352°	302°
Valve opening overlap		33° 30'	58°	59°	118°	80°	

Material Alloy steel; aluminized face all engines except V8-307 & 350(a)

Overall length 4.902-4.922 4.870-4.889 5.215-5.235 5.204-5.224

Actual overall head dia. 1.715-1.725 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

Lift (zero lash) .3880 .3900 .3983 .4614 .5197

Intake	Outer spring press. & length	Valve closed (lb. in.)	56-64 @ 1.66	76-84 @ 1.70	69-81 @ 1.88
		Valve open (lb. in.)	180-192 @ 1.27	194-206 @ 1.25	228-252 @ 1.38

Intake	Inner spring press. & length	Valve closed (lb. in.)	None	Spring damper	26-34 @ 1.78
		Valve open (lb. in.)	None	Spring damper	81-99 @ 1.28

Material High alloy steel, aluminized face (a)

Overall length 4.913-4.933 5.345-5.365

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

Lift (zero lash) .3880 .4100 .4300 .4800 .5197

Exhaust	Outer spring press. & length	Valve closed (lb. in.)	56-64 @ 1.66	76-84 @ 1.70	69-81 @ 1.88
		Valve open (lb. in.)	180-192 @ 1.27	194-206 @ 1.25	228-252 @ 1.38

Exhaust	Inner spring press. & length	Valve closed (lb. in.)	None	Spring damper	26-34 @ 1.78
		Valve open (lb. in.)	None	Spring damper	81-99 @ 1.28

(a) Head aluminized on 402 and 454 V-8

# AMA Specifications Form—Passenger Car

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

MODEL L6-250 V8-307 & 350 V8-400 & 454

## 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	Nozzle	Centrifugally oiled from camshaft bearing	
	Cylinder walls	Splash	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 oil case, less filter-refill (qt.)	4			
Oil grade recommended (SAE viscosity and temperature range)	20° F and above - 20W, 10W-30, 10W-40, 20W-40 0° to 60° F - 10W, 5W-30, 10W-30, 10W-40 Below 20° F - 5W, 5W-20, 5W-30			
Engine Service Reqmt. (MM, MS, etc.)	MS			

## ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Single with cross over	Dual with resonators
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow		2-mufflers 2-resonators (a)
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .082 (b)	2.00 x .069 (c)
	Main	2.00 x .064	2.50 (2.00 x V8-307) x .082 (b)
Tail pipe dia. (O.D. & wall thickness)	1.88 x .069		2.00 x .069 (d)

- (a) One (transverse) resonator on Pick-Ups  
 (b) Laminated  
 (c) Pipe-muffler to resonators  
 (d) Round tail pipe on V8-400; Oval type extension on V8-454

## AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (●) 12/70

MODEL	L6-250 145 HP	V8-307 200 HP	V8-350 245 HP	V8-400 270 HP	V8-454 300 HP	V8-454 365 HP	V8-454 425 HP
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## 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.)	Approximately 19; Station Wagons 18					
Fuel Tank	Filler location	Behind hinged rear license plate (a)					
Fuel Pump	Type (elec. or mech.)	Mechanical					
Fuel Pump	Locations	Lower right front of engine					
Fuel Pump	Pressure range *	4.00-5.00	5.50-7.00	7.50-9.00			
Vacuum booster (std., optional, none)	None						
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and					
Fuel Filter	Locations	paper filter (sintered bronze with V8 307) 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				
	Air cleaner type	Optional					
Idle speed (spec. neutral or drive)	Manual ●	550	600	600		700	
	Automatic ●	500	550	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		
13100 13300 13500	250	Manual	Rochester	7041017	One; 1-bbl	1.69
		Automatic		7041014		
	307	Manual	Rochester	7040101	One; 2-bbl	1.44
		Automatic		7040110		
13200 13400	245hp	Manual	Rochester	7041113	One; 2-bbl	1.69
		Automatic		7041114		
13600 13800	350	Manual	Rochester	7041203	One; 4-bbl	1.38 Prim. 2.25 Sec.
		Automatic		7041202		
	402	Manual	Rochester	7041201	One; 4-bbl	1.38 Prim. 2.25 Sec.
		Automatic		7041200		
13637 13667	454	Manual	Rochester	7041201	One; 4-bbl	1.38 Prim. 2.25 Sec.
		Automatic		7041200		
13680	454	Manual	Holley	3986195	One; 4-bbl	1.69 Prim. & Sec.
	425hp	Automatic		3986196		

\*Shut off pressure - 1800 RPM at pump outlet

(a) Sedan and Coupe models; LR quarter panel on Station Wagon and El Camino models.

# AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED 012/70

<b>MODEL</b>	L6-250 145 HP	V8-307 200 HP	V8-350 245 HP	V8-400 270 HP	V8-454 300 HP	V8-454 366HP	V8-454 425 HP
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### 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°						
Water pump	Type (centrifugal, other)	Centrifugal						
	GPM 1000 pump rpm	27 @ 2000	25 @ 2000	27*	25*	27*		
	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.)	12	15	16	23	22	22	
	Without heater (qt.)	11	14	15	22	21	21	
	Opt. equipment-specify (qt.)	13	16	16	23	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	19.00			18.00		
	Ratio-fan to crankshaft rev.	1.165:1	.949:1					
	Fan cutout type	None						
Bearing type		Double row ball						
* Drive belts (indicate belt used by letter)	Fan	A	C			F	I	
	Generator or alternator	A	C			F	I	
	Water Pump	A	C			F	I	
	Power Steering	B	D			G	J	
	Air Conditioning	--	E			H		
Air Injection		--	--			--	I	

\* @ 2000 RPM

Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V					38-42°						
Nominal length (SAE)	37.30	48.50	44.25	36.00	54.53	45.75	41.00	58.00	47.50	40.50	
Width					.380						

(a) 5-blade staggered

# AMA Specifications Form—Passenger Car

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

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

**VEHICLE EMISSION CONTROL**

Type of 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	
	Air Injection System	Filter (describe)	NOT APPLICABLE	Centrifugal air cleaner
		Air distribution (head, manifold, etc.)		Manifold
		Point of entry		Exhaust ports
		Injection tube i.d.		.2505
		Check valve type		Pressure plate type
Backfire protection (type)	Diverter valve			
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)	Standard		Induction system
		Optional		---
	Control Unit	Make and model		AC Spark Plug
		Location		Rocker cover-top rear L6 and left front V-8
		Energy source (manifold vacuum, carburetor, other)	Manifold vacuum	
	Complete system	Control method (variable orifice, fixed orifice, other)	Variable orifice	
		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; 18 Station Wagons
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, cannister, other)			Cannister	
Carburetor Vapor Storage		Vapor vented to (crankcase, cannister, other)	---	
			---	
		Storage provision (crankcase, cannister, other)	Cannister	
		Volume (cu. ft.) or capacity (grams)	45 approximately	
Control valve type	Single vacuum operating stage valve			

# AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED 12/70

<b>MODEL</b>	L6-250 145 HP	V8-307 200 HP	V8-350 245 & 270 HP	V8-400 300 HP	V8-454 300 HP   425 HP
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### ELECTRICAL – SUPPLY SYSTEM

<b>Battery</b>	Make and Model		Delco-Remy 1980141	Delco-Remy 1980145	Delco-Remy 1980149
	Voltage Rtg. & Total Plates		12 volts - 54 plates	12 volts - 66 plates	12 volts - 90 plates
	SAE Designation & Amp. Hr. Rtg.		45 amp hr @ 20 hr rate	61 amp hr @ 20 hr rate	80 amps @ 20 hr rate
	Location		Right side of engine compartment		
<b>Generator or Alternator</b>	Terminal grounded		Negative		
	Make		Delco-Remy		
	Model		1100834		1100839
	Type and rating		Diode rectified - 37 amps		
	Output at engine idle (neutral)		13 amps		
<b>Regulator</b>	Ratio—Gen. to Cr.'s rev.		2.53:1		
	Make		Delco-Remy		
	Model		1119515		
	Type		Vibrator		
	Cutout relay	Closing voltage generator rpm	None		
		Reverse current to open	None		
	Regulated	Voltage	13.8 - 14.8 @ 85°F		
		Current	---		
	Voltage test conditions	Temperature	Operating		
		Load	3.8 amperes		
Other		None			

### ELECTRICAL – STARTING SYSTEM

<b>Starting Motor</b>	Make				
	Model		1108365	1108418	1108430*
	Rotation (drive end view)		Clockwise		
<b>Motor control</b>	Switch (solenoid, manual)		Solenoid		
	Starting procedure		Manual - Place gearshift lever in neutral and depress clutch Automatic - Place gearshift lever in N or P position Initial Start - Press accelerator to floor and release. Turn ignition to START release as soon as engine starts		
	Engagement type		Positive shift solenoid		
<b>Motor Drive</b>	Pinion meshes (front, rear)		Rear		
	Number of teeth	Pinion	9	9	
		Flywheel	Manual	153	168
			Auto.	153	168
	Flywheel tooth 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 CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (●) 12/70

MODEL	L6-250	V8-307	V8-350		V8-400	V8-454	
	145 HP	200 HP	245 HP	270 HP	300 HP	365 HP	425 HP

**ELECTRICAL - IGNITION SYSTEM - DISTRIBUTOR**

Breaker gap (in.)		.019						
Cam angle (deg.)		31-34	29-31			28-30		
Breaker arm tension		19-23				28-32		
Distributor	Manual	1110489	1112005	1112042	1112044	1112057	1112052	1112075
	● Automatic	1110489	1112039	1112005	1112045	1112057	1112052	1112054
Timing (RPM)	● Manual	4°BTC@550	4°BTC@600	2°BTC@600	4°BTC@600	8°BTC@600	8°BTC@600	8°BTC@700
	Automatic	4°BTC@500	8°BTC@550	6°BTC@550	8°BTC@550	8°BTC@600	8°BTC@600	12°BTC @ 700

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1110489	1270	14 @ 2300	24 @ 1400	8.00	22 @ 16
1112005	1000	14 @ 2200	24 @ 4300	8.00	20 @ 17
1112039	1320	12 @ 2200	20 @ 4200	8.00	20 @ 17
1112042	1120	15 @ 2200	28 @ 4300	8.00	20 @ 17
1112044	1160	15 @ 2400	22 @ 4200	8.00	15 @ 15.5
1112045	1335	11 @ 2400	18 @ 4200	7.00	15 @ 15.5
1112052	1143	14 @ 2000	22 @ 3900	8.00	20 @ 17
1112054	1310	21 @ 2350	28 @ 5000	7.00	12 @ 12
1112057	1260	16 @ 2400	30 @ 4400	8.00	20 @ 17
1112075	1200	24.4 @ 2310	32 @ 5000	7.00	12 @ 12

## AMA Specifications Form—Passenger Car

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

L6-250 145 HP	V8-307 200 HP	V8-350 245 HP	V8-400 270 HP	V8-454 300 HP	V8-454 365 HP	V8-454 425 HP
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## 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	1115208		1115293		
	Amps	Engine stopped	4.0			
	Engine idling	1.8				
Spark Plug	Make	AC Spark Plug				
	Model	ACR46TS	ACR45TS	ACR44TS	ACR43TS	ACR44T:
	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	Non metallic high ignition cables
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## ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	In-line with pointer; SS 454-dial w/pointer
	Trip odometer (std. opt., N.A.)	N.A.
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)	4.5-6.5 @ 12.5V (low note)
Other		

# AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (12/70)

MODEL	L6-250 145 HP	V8-307 200 HP	V8-350 245 HP	V8-400 270 HP	V8-400 300 HP	V8-454 365 HP	V8-454 425 HP
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### DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Chevrolet Single dry disc		Chevrolet, Single dry disc; centrifugal			
Type pressure plate springs	Diaphragm		Diaphragm, bent finger design			
Total spring load (lb.)	1650-1850	1900-2000	2100-2300	2450-2750	2600-2800	
No. of clutch driven discs	One					
Clutch facing	Material	Woven asbestos				
	Outside & inside dia.	9.12 x 6.12	10.34 x 6.50	11.00 x 6.50		
	Total eff. area (sq. in.)	71.82	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	Standard	Standard*	N.A.
Manual 4-speed (std., opt. N.A.)	N.A.	Optional	Optional	Standard**
Automatic (std., opt. N.A.)	Optional			

### DRIVE UNITS – MANUAL TRANS.

Number of forward speeds	3 (a)	3 (b)	3 (c)	4 (d)	4 (e)	4 (f)	
Transmission ratios	In first	2.85	2.42	2.54	2.52	2.54	2.20
	In second	1.68	1.58	1.50	1.88	1.80	1.64
	In third	1.00	1.00	1.00	1.46	1.44	1.27
	In fourth	-	-	-	1.00	1.00	1.00
	In reverse	2.95	2.41	2.63	2.59	2.54	2.26
Synchronous meshing, specify gears	All forward gears						
Shift lever location	Steering column 3-speed Floor mounted 4-speed						
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					

\* Heavy Duty 3-speed with V8-400

\*\* Heavy Duty 4-speed

(a) Used with L6-250 & V8-307

(b) Used with V8-400

(c) Used with V8-350

(d) Used with V8-400

(e) Used with V8-350 (245 & 270 HP)

(f) Used with V8-454

## AMA Specifications Form—Passenger Car

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

MODEL	2-SPEED AUTOMATIC	3-SPEED AUTOMATIC	
	L6-250   V8-307	V8-307 & V8-350	V8-400 & V8-454

## 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 and optional bucket seats on convertible & coupes			
List gear ratios Selector Pattern and indicate which are used in each selector position	P-Park R-1.82 N-Neutral D-1.82-1.00 L-1.82	P-Park R-1.93 N-Neutral D-2.52-1.52-1.00 L2-2.52-1.52 L1-2.52	P-Park R-2.08 N-Neutral D-2.48-1.48-1.00 L2-2.48-1.48 L1-2.48	
Max. upshift speed—drive range	58	60	*	
Max. kickdown speed—drive range	63	57	*	
Torque converter	Number of elements	3		
	Max. ratio at stall	2.10		
Type of cooling (air, liquid)	Water			
	Nominal diameter	11.00	11.75	12.20
Lubricant	Capacity—refill (pt.)	6	5	8
	Type recommended	A suffix A		
Special transmission features				

## 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 60.14 x 0.065 (116" wheel base) 3.25 x 56.34 x 0.065 (112" wheel base)	
	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: V8-307 (1-2 48/ 2-3 81) V8-350 245 HP (1-2 51; 2-3 90) V8-350 270 HP (1-2 48; 2-3 85) V8-400 (1-2 47; 2-3 83) V8-454 365 HP (1-2 44; 2-3 79) V8-454 425 HP (1-2 46; 2-3 84)

Kickdown: V8-307 (2-1 34; 3-2 80) V8-350 245 HP (2-1 36; 3-2 90) V8-350 270 HP (2-1 34; 3-2 84) V8-400 (2-1 39; 3-2 76) V8-454 365 HP (2-1 37; 3-2 72) V8-454 425 HP (2-1 31; 3-2 77)

# AMA Specifications Form—Passenger Car

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

MODEL \_\_\_\_\_

## DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	- -
S id Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750-1.1752
Universal joints	Make and Mfg. No.	Chevrolet
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U-bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)		Control arms
Torque taken through (torque tube or arms, springs)		Control arms

## DRIVE UNITS – AXLE

Type (front, rear)		Rear
Description		Semi-floating, overhung hypoid pinion & ring gear
Limited Slip differential, type		Cone clutches or dual disc clutches
Drive Pinion Offset		1.50
No. of differential pinions		Two
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		Collapsible sleeve
Wheel bearing type		Direct single row cylindrical
Capacity (pt.)		3.75(8-1/8 ring gear); 4.25 (8-7/8 ring gear)
Type recommended		Open Diff: Meeting Military Specs. MIL-L-2105-B
Lubricant	SAE vis- cosity number	SAE 80
	Summer	SAE 80
	Winter	SAE 80
Extreme cold		SAE 80

## AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.56	2.73	3.08	3.31	2.73	3.31	4.10
No. of teeth	Pinion	16	15	12	13	15	13	10
	Ring gear	41	41	37	48	41	48	41
Ring Gear O.D.		8.125			8.875			

## AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

MODEL \_\_\_\_\_

## DRIVE UNITS - WHEELS

Type & material		Short spoke disc; steel	
Rim (size & flange type)	Std.	14x5 (a); 14x6 (b); 15x7 (Trans-Am) (c)	
	Opt.	14x6 (Rally) (d)	
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	E78-14 B2 (e);	F78-14 B2 (f);	G78-14 B2 (g);	F60-15 B2 (h)
	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	800	785	778	801
Optional	Size, ply rating, & ply	F78-14 B (e) G78-14 D (g)			

## BRAKES - PARKING

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

- (a) 6 cyl., 307, 350 engines and base El Camino  
 (b) 400 V8 engine and station wagon models.  
 (c) SS 454 models and RPO SS models.  
 (d) Chevelle and El Camino exc. SS 454  
 (e) Chevelle 6 cyl., 307, 350 V-8's; 6 cyl. and 307 V-8 El Camino.  
 (f) Chevelle 400 V8's and 350 and 400 V8 El Camino models  
 (g) Station wagon models as required - by weight.  
 (h) Chevelle and El Camino SS 454 models

# AMA Specifications Form—Passenger Car

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

MODEL \_\_\_\_\_

**BRAKES - SERVICE**

		Standard	Optional (a)		
Type (drum) or (disc & no. of pistons)		Drum (front finned) (b)	Disc-front (b)		
Self adjusting (std., opt., N.A.)		Standard			
Special Valving	Type (proportion, delay, metering, other)	None	Metering and proportioning (except station wagons)		
Power brake make & type (remote, int., etc.)	Std. Opt.	-- (c)	(c)		
Effective area (sq. in.) *		155.2	106.1		
Gross lining area (sq. in.) **		168.9	118.1		
Swept area (sq. in.) ***		268.8	332.4		
Front to Rear Effectiveness Relationship		62			
Drum	Diameter (nominal)	Front 9.5 Rear	-- 9.5		
	Type and material	Composite; cast iron finned rim, steel web			
Rotor	Outer working diameter		11.0		
	Inner working diameter		7.18		
	Working width		1.0		
	Material & type (vented/solid)		Cast iron; vented		
Wheel cylinder bore	Front	1.125	2.9375		
	Rear	0.875	0.875		
Master Cylinder	Bore	1.00	1.125		
	Stroke	1.13	1.44		
Pedal arc ratio		6.32	3.53		
Line pressure at 100 lb. pedal load		805	1025		
Shoe Clearance	Front	Self-adjusting			
	Rear	Self-adjusting			
Anti-skid device type (std., opt., N.A.)		N.A.			
Brake lining	Bonded or riveted		Bonded Riveted		
	Front Wheel	Material	Molded asbestos		
		Size (length x width x thickness)	Prim. or out-board	9.01x2.5x0.17	5.96x2.21x0.41
			Second. or in-board	9.75x2.5x0.20	5.96x2.21x0.41
		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 0.20	
		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) Standard with 454 SS option and all V-8 wagons except 13236
- (b) Drum-single piston, duo-servo; Disc-single piston, floating caliper
- (c) Delco-Moraine vacuum power unit; integral

## AMA Specifications Form—Passenger Car

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

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; universally-jointed steering shaft at base of steering wheel; 5 inch vertical range	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	Oval- 15.25 x 14.75	
	Power	Same as manual	
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	24.0:1
	No. wheel turns (stop to stop)	Overall	28.7:1
			5.5
Power	Type (coaxial, linkage, etc.)		Integral gear with vane type pump
	Make		Saginaw Steering
	Gear	Type	Same as manual
		Ratios	16.0:1-13.0:1
		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
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		8-1/4°±1/2°
	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±1°
	Camber (deg.)		+3/4±3/4°
	Toe-in (outside track inches)		1/16 to 5/16
Steering spindle & joint type		Forging with pad for mounting brake cylinder; spherical joints	
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



## AMA Specifications Form—Passenger Car

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

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	Rear suspension geometry
Special provisions for car jacking	Position jack in bumper notches on lower face of front and rear bumpers
Shock absorber front & rear	Direct double acting hydraulic
Type	
Make	Delco
Piston dia.	1.00
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	Type	Coil
	Material	Steel alloy
	Size (coil design height & I.D.; bar length x dia.)	11.7x3.63; 133.40x0.595
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	92
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel; 0.8125

**SUSPENSION – REAR**

Type and description	Linked Salisbury axle fixed by control arms	
Drive and torque taken through	Control arms	
Spring	Type	Coil
	Material	Steel alloy
	Size (length x width, coil design height & I.D.; bar length & dia.)	14.7x5.50; 103.8x0.522
	Spring rate (lb. per in.)	100
	Rate at wheel (lb. per in.)	85
	Mounting insulation type	Natural rubber
	If leaf	No. of leaves Shackle (comp. or tens.)
Stabilizer	Type (link, linkless, frameless)	None
	Material	- - -
Track bar type	None	

# AMA Specifications Form—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

MODEL \_\_\_\_\_

FRAME \_\_\_\_\_

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

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

**BODY - MISCELLANEOUS INFORMATION**

	4-Dr. Sedan	Sport Sedan	Sport Coupe	Convert-ible	Station Wagon	El Camino
--	-------------	-------------	-------------	--------------	---------------	-----------

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	Front

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 of instrument panel pad
-----------------------------	----------------------------------

Engine No. location	6 Cyl.-on crankcase on RH side of engine, rear of distributor V8-on top front of RH bank of cylinder and 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	Friction pivot (none on 37 and 67 models)
	Rear	None

Seat cushion type	Front	Formed wire and foam pad
	Rear	Formed wire and foam pad
	3rd seat	Formed wire and foam pad

Seat back type	Front	Formed wire and foam pad
	Rear	Formed wire and foam pad
	3rd seat	Formed wire and foam pad

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)	Tempered plate	
	Curved	Flat

Windshield glass exposed surface area	1249.6	1249.6	1208.7	1211.8	1249.6	1208.7
Side glass exposed surface area	1197.0	1349.4	1334.0	1260.4	2416.2	648.0
Backlight glass exposed surface area	1032.2	1032.5	1059.4	539.7	757.0	695.6
Total glass exposed surface area	3472.8	3631.5	3602.1	3011.9	4422.8	2552.3

# AMA Specifications Form—Passenger Car

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MODEL \_\_\_\_\_

## CONVENIENCE EQUIPMENT

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

Power windows	Side windows	NA
	Vent windows	NA
	Backlight or tailgate	Optional-2-seat wagon; standard-3-seat wagon
Power seats (specify type as well as availability)		NA
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)		Optional-AM, AM/FM, AM/FM Stereo Radio (a), AM Radio with Stereo Tape (a), AM/FM Stereo Radio w/Stereo Tape System(a)
Car seat speaker		Optional (a)
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Optional - 4-season (V8 Models only)
Speed warning device		NA
Speed control device		Opt. only with V8 models & automatic transmission
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Std.; opt. on Chevelle Nomad and Greenbrier wagons & Std El Camino
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Std. on convertible - optional on other models
Map lamp		NA
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA
<b>Rear window defroster</b>		Optional (a)
<b>Power door lock system</b>		Optional
<b>Windshield antenna</b>		Standard with factory installed radio

## LAMP HEIGHT AND SPACING

			Sedans	Coupes	Station Wagons
Height above ground to center of bulb or marker	Headlamp	Highest ●	26.0	26.3	27.3
		Lowest			
	Tail	Highest ●	21.3	20.9	26.0
		Lowest			
Sidemarker	Front				
	Rear				
Distance from C/L of car to center of bulb	Headlamp	Inside			
		Outside *			
	Tail	Inside			
		Outside			
	Directional	Front			
		Rear			

\* If single headlamps are used enter here.

(a) Not available on El Camino

# AMA Specifications Form—Passenger Car

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

### VEHICLE WEIGHTS

	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
	Front	Rear	Total	Pass. In Front		Pass. In Rear		Fuel	Coolant
				Front	Rear	Front	Rear		
<b>Model with base L6-engine</b>									
<b>CHEVELLE</b>									
2-Door Sport Coupe	1756	1508	3264	46.6	53.4	20.0	80.0	115	25
4-Door Sedan	1778	1530	3308	48.6	51.4	20.6	79.4	115	25
<b>MALIBU</b>									
2-Door Sport Coupe	1780	1530	3310	46.6	53.4	20.0	80.0	115	25
4-Door Sedan	1802	1546	3348	48.6	51.4	20.6	79.4	115	25
<b>NOMAD STATION WGN.</b>									
4-Door, 2-Seat	1672	2054	3726	48.6	51.4	20.6	79.4	110	25
<b>EL CAMINO</b>									
2-Door Sedan Pickup	1792	1540	3332	49.3	50.7	- -	- -	115	25
<b>Models with base V8 engine</b>									
<b>CHEVELLE</b>									
2-Door Sport Coupe	1866	1528	3394	46.6	53.4	20.0	80.0	115	33
4-Door Sedan	1884	1552	3436	48.6	51.4	20.6	79.4	115	33
<b>MALIBU</b>									
2-Door Sport Coupe	1894	1546	3440	46.6	53.4	20.0	80.0	115	33
4-Door Sport Sedan	1930	1618	3548	48.6	51.4	20.6	79.4	115	33
2-Door Convertible	1880	1608	3488	46.6	53.4	20.0	80.0	115	33
4-Door Sedan	1908	1570	3478	48.6	51.4	20.6	79.4	115	33
<b>STATION WAGONS</b>									
<b>NOMAD</b>									
4-Door 2-Seat	1782	2058	3840	48.6	51.4	20.6	79.4	110	33
<b>GREENBRIER</b>									
4-Door 2-Seat	1806	2108	3914	48.6	51.4	20.6	79.4	110	33
4-Door 3-Seat	1790	2178	3976	48.6	51.4	20.6	79.4	110	33
<b>CONCOURS</b>									
4-Door 2-Seat	1788	2170	3958	48.6	51.4	20.6	79.4	110	33
4-Door 3-Seat	1808	2194	4002	48.6	51.4	20.6	79.4	110	33
<b>CONCOURS ESTATE</b>									
4-Door 2-Seat	1840	2146	3986	48.6	51.4	20.6	79.4	110	33
4-Door 3-Seat	1826	2212	4038	48.6	51.4	20.6	79.4	110	33
<b>EL CAMINO</b>									
2-Door Pickup Std.	1896	1562	3458	49.3	50.7	- -	- -	115	33
2-Door Pickup Cust.	1904	1568	3472	49.3	50.7	- -	- -	115	33

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

## AMA Specifications Form—Passenger Car

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## OPTIONAL EQUIPMENT WEIGHTS

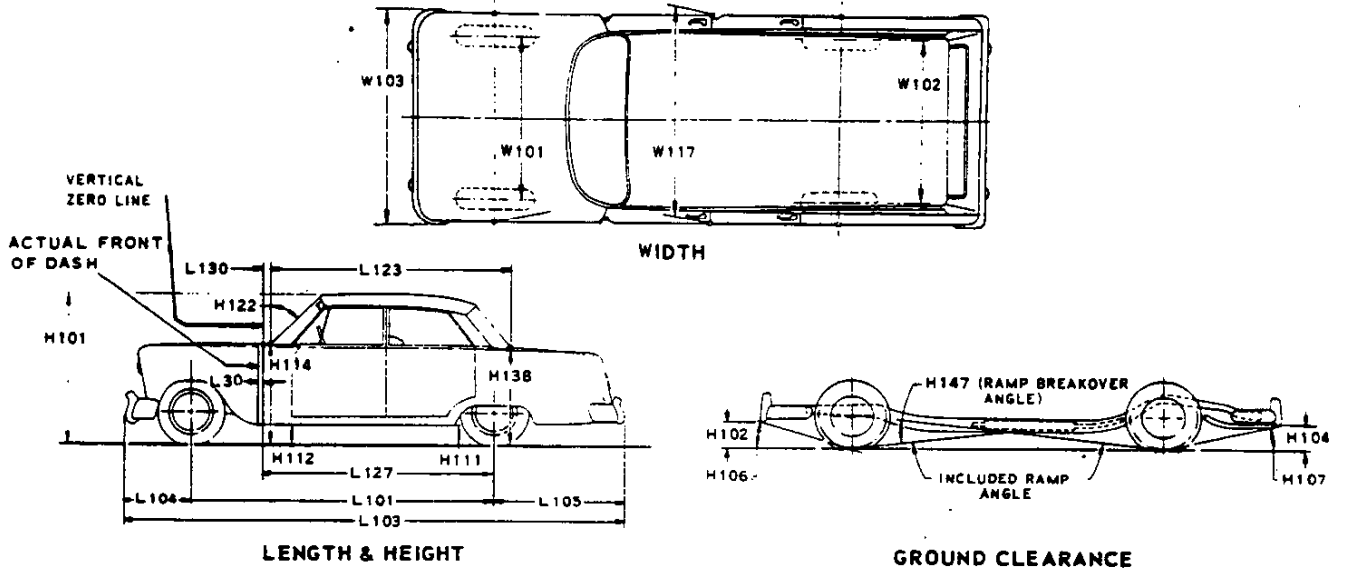
Equipment Differential Weights	WEIGHT POUNDS			Remarks
	Front	Rear	Total	
Air Conditioning	+ 98	+ 8	+106	
Power Steering	+ 29	+ 1	+ 30	
Power Brakes	+ 10	+ 1	+ 11	Exc. 134-6-800 Station wagons.
Power Disc Brakes	+ 22	+ 1	+ 23	Used with Base 350 Cu. In. Engines
	+ 34	+ 23	+ 57	Used with LS3, LS5 & LS6
Electric Door Locks	+ 5	+ 3	+ 8	Used with 2-Door models
	+ 7	+ 8	+ 15	Used with 4-Door models
Radio AM Push button	+ 6	+ 2	+ 8	
Radio AM-FM Push button	+ 6	+ 3	+ 9	
Radio Stereo	+ 11	+ 3	+ 14	
Floor Console	+ 7	+ 3	+ 10	Used with 4-speed transmission
	+ 12	+ 5	+ 17	Used with automatic transmission
350 Cu. In. L65 (245 hp)	+ 22	+ 4	+ 26	
350 Cu. In. L48 (270 hp)	+ 26	+ 3	+ 29	All exc. Pickup
	+ 24	+ 3	+ 27	Pickup
402 Cu. In. LS3 (300 hp)	+186	+ 43	+229	All exc. SS models, Station Wgns, Pickups
	+186	+ 37	+223	Station Wgns. & Pickups
454 Cu. In. LS5 (365 hp)*	+194	+ 43	+237	SS Models
	+195	+ 35	+230	El Camino
454 Cu. In. LS6 (425 hp)*	+189	+ 15	+204	SS Models
	+191	+ 23	+214	El Camino
4-Speed Transmission	+ 13	+ 5	+ 18	Used with V8-350 (L65 & L48)
	+ 3	+ 1	+ 4	Used with V8-400 (LS3)
	+ 4	+ 1	+ 5	Used with 454 V8 (LS5 & LS6)
Turbo Hydra-matic Trans	+ 21	+ 7	+ 28	Used with V8-307 & 350 (L65)
	+ 20	+ 4	+ 24	Used with V8-350 (L48)
	+ 36	+ 9	+ 45	Used with V8-400 (LS3)
	+ 48	+ 9	+ 57	Used with 454 V8 (LS5)
	+ 45	+ 9	+ 54	Used with 454 V8 (LS6)
Powerglide transmission	- 4	- 4	- 8	Used with 6 cyl engine
	+ 8	0	+ 8	Used with base 307 V8 engine
HD 3-spd man. trans.	+ 19	+ 6	+ 25	Used with 400 V8 (LS3) engine

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

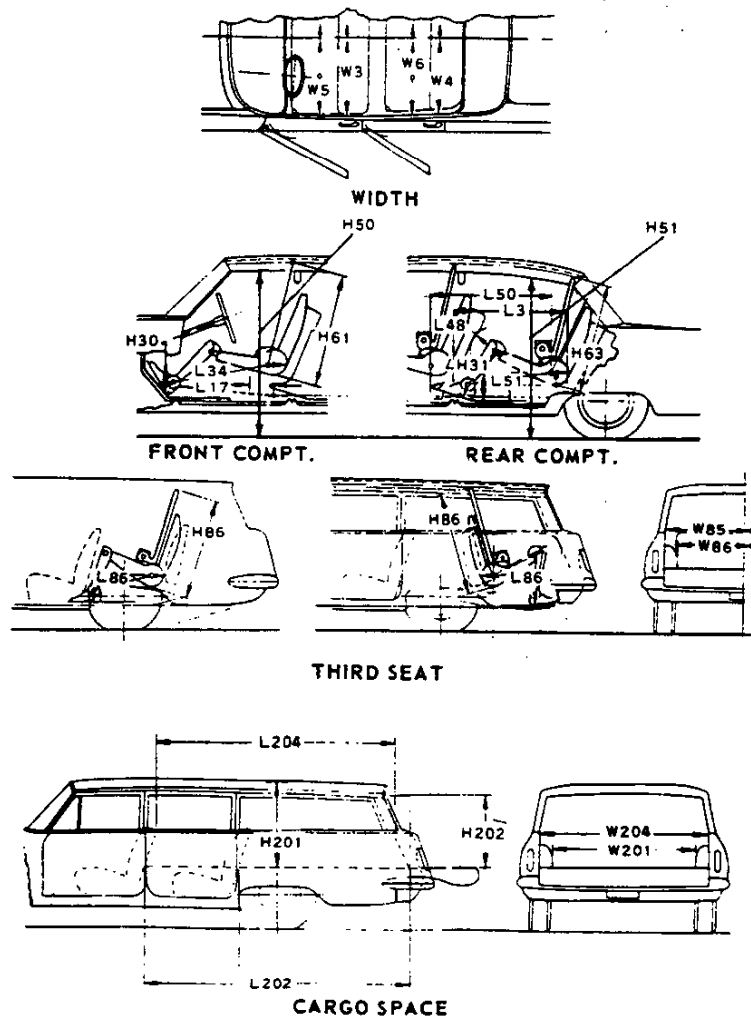
## CAR AND BODY DIMENSIONS

### 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 nominal camber, 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 WHEELBASE.  
 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 flanges. Measured to the outside of sheet metal at foremost point of rocker panel.  
 H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of 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 comprehended 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, gravel 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, gravel 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 roots 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-and 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

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