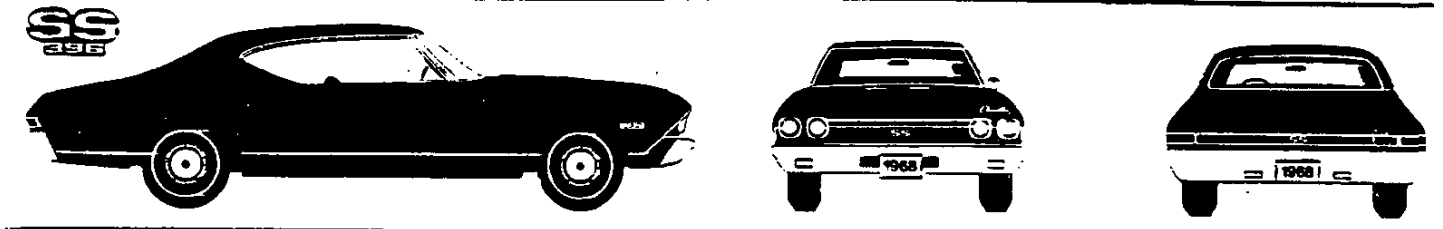


# 1968



## CHEVROLET

## CHEVELLE



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# GENERAL

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## MODEL IDENTIFICATION

### CHEVELLE 300 AND NOMAD STATION WAGON SERIES 131-13200

MODEL 131-13227 2-DOOR COUPE, 5-PASSENGER  
MODEL 131-13235 4-DOOR STATION WAGON, 2-SEAT

### CHEVELLE 300 DELUXE AND NOMAD CUSTOM STATION WAGON SERIES 133-13400

MODEL 133-13427 2-DOOR COUPE, 5-PASSENGER  
MODEL 133-13469 4-DOOR SEDAN, 6-PASSENGER  
MODEL 133-13437 2-DOOR SPORT COUPE, 5-PASSENGER  
MODEL 133-13435 4-DOOR STATION WAGON, 2-SEAT  
MODEL 133-13480 2-DOOR SEDAN PICKUP, 3-PASSENGER

### MALIBU SERIES 135-13600

MODEL 135-13669 4-DOOR SEDAN, 6-PASSENGER  
MODEL 135-13639 4-DOOR SPORT SEDAN, 6-PASSENGER  
MODEL 135-13637 2-DOOR SPORT COUPE, 5-PASSENGER  
MODEL 135-13667 2-DOOR CONVERTIBLE, 5-PASSENGER  
MODEL 135-13635 4-DOOR STATION WAGON, 2-SEAT  
MODEL 135-13680 2-DOOR SEDAN PICKUP, 3-PASSENGER

### SS 396 SERIES 13800

MODEL 13837 2-DOOR SPORT COUPE, 5-PASSENGER  
MODEL 13867 2-DOOR CONVERTIBLE, 5-PASSENGER  
MODEL 13880 2-DOOR SEDAN PICKUP, 3-PASSENGER

### CONCOURS SERIES 137-13800

MODEL 137-13835 4-DOOR STATION WAGON, 2-SEAT

# SERIAL NUMBERS AND IDENTIFICATION

ONLY BASIC DESIGNATIONS SHOWN

## VEHICLE SERIAL NUMBER

6-Cylinder Example:

Model	Model Year	Assembly Plant (Atlanta)	Unit Number (25th unit)
13369	8	A	100025

Thus: The 25th model built at Atlanta would be serial number 133698A100025

8-Cylinder Example:

Model	Model Year	Assembly Plant (Atlanta)	Unit Number (26th unit)
13469	8	A	100026

Thus: The 26th model built at Atlanta would be serial number 134698A100026

### ASSEMBLY PLANTS

A - Atlanta	K - Kansas City
B - Baltimore	Z - Fremont GMAD
G - Framingham	

Starting unit number ----- 100001 and up at  
each assembly plant regardless of series  
Location ----- Stamped on plate attached  
to left front body hinge pillar

## ENGINE IDENTIFICATION

Example: F1210BA

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

230 Cubic Inch 6-Cylinder

- BA - Regular engine, 3-speed
- BF - Regular engine, Powerglide

250 Cubic Inch 6-Cylinder (RPO-L22)

- CM - Optional engine, 3-speed
- CQ - Optional engine, Powerglide

307 Cubic Inch 8-Cylinder

- DA - Regular engine, 3-speed
- DE - Regular engine, Powerglide

327 Cubic Inch 8-Cylinder (RPO-L30)

- EA - Optional engine, 3-speed, 4-bbl. carb.
- EE - Optional engine, Powerglide, 4-bbl. carb.

327 Cubic Inch 8-Cylinder (RPO-L29)

- EP - Optional engine, 3-speed, 4-bbl. carb.

396 Cubic Inch 8-Cylinder (RPO-L35)

- ED - Optional engine, 3-speed, 4-bbl. carb.
- EK - Optional engine, Powerglide, 4-bbl. carb.
- ET - Optional engine, Turbo Hydra-Matic

396 Cubic Inch 8-Cylinder (RPO-L34)

- EF - Optional engine, 3-speed, 4-bbl. carb.
- EL - Optional engine, Powerglide, 4-bbl. carb.
- EU - Optional engine, Turbo Hydra-Matic

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.

## TRANSMISSION IDENTIFICATION

Example: QBS8E01D

Type Designation	Source Designation	Model Year 1968	Production* Month & Date E01D*
QB	S(Saginaw)	8	E01D*

QB	3-Speed	L-6 & V-8 engines	S - Saginaw
YC	3-Speed overdrive	L-6 engine	O - Saginaw
YB	3-Speed overdrive	V-8 engine	O - Saginaw
HI	4-Speed	V-8 engine	P - Muncie R - Saginaw
TA	Powerglide	L-6 engine	C - Cleveland T - Toledo
TG	Powerglide	V-8 engine	C - Cleveland T - Toledo
--	Turbo Hydra-Matic	V-8 engine	CC - Ypsilanti

Location:

3-Speed & 4-speed ----- Stamped on  
right hand side of the case in the upper forward corner.  
4-Speed ----- Stamped on  
the top right side of the case.  
Powerglide ----- 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.

## REAR AXLE IDENTIFICATION

Example: CA0212B

Type Designation	Production* Month & Date	Source† Designation
CA	0212	B (Buffalo)

CA ----- 3.08 ----- 3-speed, 4-speed, and Powerglide  
transmission  
CB ----- 3.31 ----- 3-speed, 4-speed, and Powerglide  
transmission  
CG ----- 3.36 ----- 3-speed, and Powerglide transmission  
CV ----- 3.70 ----- Overdrive transmission  
CX ----- 3.07 ----- 4-speed, and Powerglide transmission  
CZ ----- 2.73 ----- Turbo Hydra-Matic transmission

Location ----- Bottom left or right of axle tube  
adjacent to carrier housing

\* - Month: February, 02; 12th day of February, 12  
† - G-Gear & Axle, B-Buffalo, W-Warren

# REGULAR EQUIPMENT—EXTERIOR

	Corvair 1967	1967 Camaro	1967 Chevelle	1967 Nova	1967 Pontiac
Radiator grille emblem		X	X	X	X
Front header panel nameplate	X	X	X	X	X
Windshield reveal moldings with narrow lower molding	X	X			
Windshield reveal moldings with wide lower molding			X	X	X
Hood and fender rear moldings	X	X	X	X	X
Front header panel molding	X	X	X	X	X
Special hood with simulated grilles				X	
Black painted radiator grille				X	
Front fender series nameplate	X	X	X		X
Ventipane frames - bright	X	X	X	X	X
Rocker panel molding - bright		X			
Weather strip retainer - bright		37	37-39	37	
Body side moldings, front fender and doors, bright			X	X	
Rear quarter lower molding - bright				X	
Black paint below body side and rear quarter lower moldings				X	
Roof drip gutter molding - bright			X	X	X
Windshield pillar molding - bright			67	67	
Rear quarter window reveal molding - bright			35		X
Body side wood-grain insert with bright moldings, black paint filled					X
Wheel opening moldings - black paint filled					X
Dual body side paint stripes			X	X	
Hub caps	X	X	X	X	X
Tailgate series nameplate	35	35	35		X
Rear panel nameplate			ex. 35	X	
Rear panel or tailgate moldings - black paint filled			X	X	
Black painted rear end panel				X	
Tailgate wood-grain insert					X
Rear window or tailgate window reveal moldings	X	X	X	X	X
Tailgate wood-grain border molding - black paint filled					X
Rear panel or tailgate emblem	X	X			
Concealed windshield wipers with articulated lift blade			X	X	X
Front fender marker lamps, includes engine identification for V8 models	X	X	X	X	X
Rear quarter marker lamps	35	35	35		X
Back-up lamps in bumper	35	35	X	X	X
Back-up lamps in tail lamp bezels	27	27-37-69			

## REGULAR EQUIPMENT—INTERIOR

	CHEVELLE 300 AND NOMAD 131-13200	300 DELUXE AND NOMAD CUSTOM 133-13400	MAZDA 135-13600	SS 396 13800	CONCOURS 137-13800
Bright Trim and Ornamentation	Rear view mirror support - silver paint	X	X		
	Rear view mirror support, hook type - bright			X	X
	Rear view mirror support cover, plastic - trim color	X	X	X	X
	Roof sill molding - trim color			37-39	37
	Seat adjuster handle - bright	X	X	X	X
Instrument Panel	Door and window control arms - bright	X	X	X	X
	Cigarette lighter	X	X	X	X
	Clock hole cover plate	X	X	X	X
	Temp, ammeter, oil press., warning lights	X	X	X	X
	Instrument panel control knobs	X	X	X	X
	Instrument panel nameplate		35	X	X
	Speedometer - odometer - fuel gauge	X	X	X	X
	Radio hole cover plate	X	X	X	X
	Roof center dome lamp	X	X	exc 67	exc 67
	Instrument panel courtesy lamp			67	67
	Glove compartment lamp			X	X
	Lighted heater controls			X	X
	Frost door jamb light switch		X	X	X
	Manual interior light switch - integral in headlamp switch	X	X	X	X
	Round, die cast horn button	X			
Round, plastic center horn button		X			
Oval, spoke mounted horn buttons			X	X	
Armrests	Front door padded armrest, plain	X	X		
	Front door padded armrest with bright molding			69-35	X
	Front door padded armrest with bright molding and back plate			37-39- 67	X
	Rear door padded armrest and ashtray, plain		69-35		
	Rear door padded armrest with ashtray and bright molding			69-35	X
	Rear door padded armrest with ashtray, bright molding and back plate			39	
	Rear quarter panel padded arm- rest and ashtray, plain		27-37		
	Rear quarter panel padded arm- rest and ashtray with bright molding			37	37
	Rear quarter panel armrest and ashtray - built in			67	67
Load floor mat - black rubber	X				
Luggage compartment mat			X	X	
Passenger compartment floor covering - black rubber	X				
Passenger compartment floor covering - vinyl coated rubber		X			
Passenger compartment floor covering - carpet			X	X	
Load area covered stowage well		35	35	35	
Padded windshield pillars	X	X	X	X	



## REGULAR PRODUCTION OPTIONS AND DEALER INSTALLED ACCESSORIES

Item	RPO/ACC	Models
Air conditioner, Four-Season	C60	13000
Air conditioner, G.M. Chevrolet	ACC	13000
<b>Appearance Guard Group (Items available as a group or as separate options) - Group 1</b>		
Door edge guards		13000 exc 137-13835
Front bumper guards		13000
Rear bumper guards		13000 exc wgn & pickup
Twin front and rear floor mats		13000
<b>Auxiliary Lighting (Items available as a group) - RPO Z39</b>		
Ash tray light		13000
Courtesy lights		13000 exc conv
Glove box light		131-132-133-13400
Luggage light		13000 exc wgn & pickup
Underhood light		13000
<b>Transmission</b>		
2.56 ratio	GT1	13000
2.73 ratio	G97	13000
3.07 ratio	H01	13000
3.08 ratio	G92	13000
3.31 ratio	G94	13000
3.36 ratio	G76	13000
3.55 ratio	G96	13000
3.70 ratio	G75	13000
3.73 ratio	H05	13000
4.10 ratio	*	13000
4.36 ratio	*	13000
4.88 ratio	*	13000
Positraction (all ratios)	G80	13000
<b>Wheels</b>		
Emergency heavy duty	T60	13000
<b>Interior</b>		
Deluxe front and rear seat belts	A39	13000
Deluxe front seat shoulder harnesses	A83	13000
Deluxe rear seat shoulder harnesses	AS4	13000 exc pickup
Seat belt retractor	ACC	13000
Standard front seat shoulder harnesses	AS1	13000
Standard rear seat shoulder harnesses	AS5	13000 exc pickup
Brakes, front disc	J52	13000
Brakes, power	J50 ACC	13000
<b>Roof</b>		
Deck lid luggage carrier	ACC	13000 exc wgn & pickup
Roof luggage carrier	V53 ACC	13000 wgn
Roof luggage carrier cover	ACC	13000 wgn
Ski rack (deck lid)	ACC	13000 exc wgn & pickup
Ski rack (roof clamp-on type)	ACC	13000 exc conv
Clock	U35 ACC	13000
Clutch, heavy duty	M01	13000 exc 13837-67-80
Compass	ACC	13000
Console, front compartment	D55	135-13637-67-80, 13837-67-80
Cruise control, Cruise-Master	K30 ACC	132-134-136-13800
Deflectors, rain	ACC	13000 4-door (exc sport sedan) & wgn
Deflector, tailgate window	CS1 ACC	13000 wgn
Defroster, rear window	C50 ACC	13000 exc pickup
Emergency road kit	ACC	13000
<b>Engines</b>		
155-hp Turbo-Thrift 250 cu.in. L-6	L22	131-133-135-13700
250-hp Turbo-Fire 327 cu.in. V-8	L73	132-134-13600, 13835
275-hp Turbo-Fire 327 cu.in. V-8	L30	132-134-13600, 13835
325-hp Turbo-Fire 327 cu.in. V-8	L79	132-134-136- 13800 exc 13837-67-80
350-hp Turbo-Jet 396 cu.in. V-8	L34	13837-67-80
375-hp Turbo-Jet 396 cu.in. V-8	L78	13837-67-80
Engine ventilation, heavy duty closed positive	KD5	13000
Exhaust system, dual	N10	132-134-13600, 13835
Fan, temperature controlled	K02 ACC	132-134-136-13800
Fire extinguisher (2-3/4 lb. dry chemical)	ACC	13000
Fire extinguisher refill cartridge	ACC	13000
Floor mats, clear vinyl twin front and rear	ACC	13000

## REGULAR PRODUCTION OPTIONS AND DEALER INSTALLED ACCESSORIES

Equipment	RPO/ACC	Models
Floor mats, twin front and rear	B37 ACC	13000
Gauges, instrument panel	U14	13637-67-80, 13837-67-80
Generator, Delcotron (42 amp)	K79	13000
Generator, Delcotron (63 amp)	K76	13000
Glass, tinted window	A01	13000
Glass, tinted windshield	A02	13000
<b>Guards</b>		
Door edge guards	B93 ACC	13000 exc 137-13835
Front bumper guards	V31 ACC	13000
Rear bumper guards	V32 ACC	13000 exc wgn & pickup
<b>Head Restraints</b>		
Special contour front seat head restraint	A81	135-13637-67-80, 13837-67-80
Standard front seat head restraint	A82	13000
Horn, low note	U03 ACC	133-134-135-136-137-13800
<b>Lights</b>		
Ash tray light	U28 ACC	13000
Courtesy lights	U29 ACC	13000 exc conv
Glove box light	U27 ACC	131-132-133-13400
Hand portable spotlight	ACC	13000
Light monitoring system	U46 ACC	13000 exc pickup
Luggage light	U25 ACC	13000 exc wgn & pickup
Remote control spotlight	ACC	13000
Underhood light	U26 ACC	13000
Litter container, saddle type	ACC	13000
<b>Locks</b>		
Gas cap lock	ACC	13000
Spare wheel lock	ACC	13000
Rear door safety lock	ACC	13000
<b>Mirrors</b>		
Remote control outside mirror	D33	13000
Right hand outside mirror (standard type)	ACC	13000
Visor vanity mirror	ACC	13000
<b>Options</b>		
Concours Sport Sedan	Z16	135-13639
Molding, door and window frame	B90	13000 exc conv, Sport coupe, Sport sedan
<b>Options - Special Packages Group (Some available as separate options) - Group 1</b>		
Clock		13000
Rear window defroster		13000 exc pickup
Remote control outside mirror		13000
Paint stripe, body	D96	13837-67-80
Radiator, heavy duty	V01	13000
<b>Antennas</b>		
Front fixed height antenna	ACC	13000
Front manual antenna	ACC	13000
Rear manual antenna	U73 ACC	13000 exc wgn & pickup
<b>Radio</b>		
Push-button AM radio with front antenna	U63 ACC	13000
Push-button AM-FM radio with fixed height antenna	U69 ACC	13000
Rear speaker	U80 ACC	13000 exc pickup
<b>Seats</b>		
Child restraint seat	ACC	13000
Front Strato-bucket seat	A51	135-13637-67-80, 13837-67-80
Seat cushion, deluxe front	B55	131-132-133-13400
Seat pad, ventilated	ACC	13000

# REGULAR PRODUCTION OPTIONS AND DEALER INSTALLED ACCESSORIES

Equipment	RFQ/ACC	Models
Shock absorbers, Superlift air adjustable	G66	13000 exc pickup
Speed warning indicator	U15	13000
<b>Steering</b>		
Deluxe steering wheel	N30	131-132-133-13400
Power steering	N40	13000
Tilt-type steering wheel	N33	13000
Wood-grained plastic steering wheel	N34	13000
<b>Stereo</b>		
Stereo-multiplex	U79 ACC	13000 exc pickup
Stereo tape player	U57 ACC	13000 exc pickup
Suspension, heavy duty front and rear	F40	13000
Tachometer	ACC	132-134-136-13800
<b>Tires</b>		
7.35-14-4 pr tire-highway-whitewall	P58	13000 exc wgn & 13857-67
7.75-14-4 pr tire-highway-whitewall	P62	13000 exc 13857-67-80
7.75-14-4 pr tire-highway	P65	13000 exc wgn & 13857-67-80
7.75-14-8 pr tire-highway	PN4	13000 wgn
7.75-14-8 pr tire-highway-whitewall	PN5	13000 exc 13857-67-80
F70-14-4 pr tire-white stripe	PW7	13000 exc wgn
F70-14-4 pr tire-red stripe	PW8	13000 exc 13857-67-80 & wgn
Tissue dispenser	ACC	13000
<b>Convertible tops</b>		
Folding convertible top	C05	135-136-13867
Power convertible top	C06	135-136-13867
Vinyl roof covering	C08	135-13480, 135-13657-39-80, 13837
Trailer hitch	ACC	13000
Trailer wiring harness	ACC	13000
<b>Transmissions</b>		
Overdrive	M10	13000
3-speed, heavy duty	M13	13000
4-speed	M20	13000
4-speed, close ratio	M21	13000
Powerglide	M35	13000
3-speed automatic, Turbo Hydra-Matic	M40	13000
<b>Wheel covers</b>		
Mag-style wheel covers-type A	N96 ACC	13000
Mag-style wheel covers-type B	PA2	13000
Simulated wire wheel covers	N95 ACC	13000
Wheel covers	P01 ACC	13000
Wheels-"rally wheel," hub cap, trim ring	Z37	13000
<b>Windows</b>		
Power tailgate window	A33	13000 wgn
Power windows	A31	135-136-137-13800
Windshield wipers, concealed	C24	131-132-133-13400

# AIR CONDITIONING EQUIPMENT

## FOUR SEASON (RPO C60)

Heater integrated; manually controlled by knobs on instrument control panel, that operate bowden cables to activate various doors and switches to operate system.

## BASIC COMPONENTS

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 ----- 5 blade, L-6; 7 blade, V-8  
Fan Clutch ----- Thermomodulated fluid coupling\* (a)  
Crankshaft Pulley ----- Dual  
Water Pump & Fan Pulley ----- Dual  
Compressor & Crankshaft Belt ----- One\*  
Generator ----- 63 Ampere  
Radiator ----- Heavy duty  
Radiator Shroud, Fan Opening ----- Steel; 19.34 dia.\*

\* Additional equipment; also brackets, supports, braces, hoses, etc. as required for installation.

Heavy duty cooling equipment must be used on V-8 powered vehicles. It is recommended that this equipment also be used on all other vehicles for securing maximum air conditioning performance.

(a) Fan Clutch ----- Thermomodulated fluid coupling.  
V-8 Engines only.



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# DIMENSIONS AND WEIGHTS

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LUGGAGE CAPACITY .....	2
STATION WAGON CARGO SPACE .....	2
EXTERIOR DIMENSIONS .....	3
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# INTERIOR DIMENSIONS

## FRONT COMPARTMENT

CODE	DESCRIPTION	2-DOOR COUPE	4-DOOR SEDAN	SPORT SEDANS	SPORT COUPES	CONVERT- IBLES	STATION WAGONS	SEDAN PICKUP	
H3	Seat cushion height	10.9							10.4
H11	Entrance height	29.3	29.7	30.2	29.5		29.7	28.8	
H13	Steering wheel thigh clearance	4.2							3.4
H30	H point to heel point							8.1	
H32	Seat cushion deflection	4.1		3.9				3.3	
H50	Upper body opening to ground	49.0		49.6		49.2			
H58	H point rise							0.6	
H61	Effective headroom	37.8	38.2		37.4	38.3		38.1	
H70	H point to body O line							14.2	
H75	Effective headroom - 'T' point	37.8	38.5		37.8	38.7		38.5	
W3	Shoulder room	58.1		58.3		58.1		58.3	
W5	Hip room	59.8		59.6				59.7	
L7	Steering wheel torso clearance							12.4	
L17	H point travel							4.8	
L34	Effective leg room	42.4							42.7

## REAR COMPARTMENT

H8	Seat cushion height	12.6	13.0		12.5		13.0	
H12	Entrance height	---	29.4		29.8		---	
H31	H point to heel point	10.0	10.5		9.9		10.6	
H33	Seat cushion deflection	4.6	4.4		4.6		---	
H51	Upper body opening to ground	---	48.7		49.2		---	
H63	Effective headroom	36.4	37.1		36.4		36.7	
H71	H point to body O line	13.4	14.0		13.7		14.0	
H76	Effective headroom - 'T' point	36.3	37.2		36.3		37.0	
W4	Shoulder room	56.8	57.5		56.8		47.6	
W6	Hip room	58.5	59.6		58.3		49.5	
L3	Rear compartment room	24.0	25.9		24.0		25.1	
L50	H point couple distance	30.6	32.8		30.6		32.8	
L51	Effective leg room	32.2	34.7		32.2		34.8	

## LUGGAGE COMPARTMENT

---	Opening width							48.5	
---	Interior height							18.0	
---	Interior width							72.0	
---	Interior length							49.0	
H195	Liftover height								
V1	Usable luggage capacity (cu.ft.)	12.8		12.6		11.0			
---	Total volume (cu.ft.)								

## STATION WAGON CARGO SPACE

H201	Maximum cargo height							31.6	
H202	Rear opening height							28.5	
H250	Tailgate to ground height								
W200	Cargo width - front							59.5	
W201	Cargo width - wheelhouse							44.5	
W203	Rear opening width at floor							50.1	
W204	Rear opening width at belt							49.5	
W205	Rear opening width above belt							49.4	
L200	Maximum cargo length - front seat							117.0	
L201	Maximum cargo length - second seat							85.2	
L202	Cargo length at floor - front seat							90.9	
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.)							84.0(A)	

(A) Add 10.0 cu.ft. (except Nomad) for under floor compartment.

# EXTERIOR DIMENSIONS

## LENGTHS

CODE	DESCRIPTION	2-DOOR COUPE	4-DOOR SEDAN	SPORT SEDANS	SPORT COUPES	CONVERT- IBLES	STATION WAGONS	SEDAN PICKUP
L101	Wheelbase	112.0	116.0		112.0		116.0	
L102	Tire size (standard)			7.35 x 14			7.75 x 14	
L103	Overall length	197.1	201.1		197.1		207.1	
L104	Overhang - front				37.5			
L105	Overhang - rear			47.6			53.6	
----	Overall length - less bumpers							
L127	Body O line to C/L of rear wheels	95.6	99.6		95.6		99.6	
L128	Hood length at centerline				62.5			

## WIDTHS

W101	Tread - front				59.0			
W102	Tread - rear				59.0			
W103	Maximum overall width of car				75.7			
W106	Front fender overall width				75.7			
W107	Rear fender overall width				75.4			
W120	Overall car width, front doors open	150.1	132.3		150.1		132.3	150.1
W121	Overall car width, rear doors open	---			---	---		---

## HEIGHTS

H101	Overall height (design)	52.7	53.3		52.7	53.2	55.2	54.0
----	Overall height (curb)							
H102	Front bumper to ground							
H104	Rear bumper to ground							
H111	Rocker panel to ground - rear			8.5			9.7	9.4
H112	Rocker panel to ground - front			7.4			9.2	8.4
H114	Hood at rear to ground		37.4		37.7		38.6	
H115	Step height - front (design)							
H116	Step height - rear (design)	---			---	---		---
H125	Headlamp to ground	27.5	27.4		27.7	27.9	28.1	28.4
H126	Tail lamp to ground		23.2		23.0		26.1	24.8
H130	Step height - front (curb)							
H131	Step height - rear (curb)	---			---	---		---
H136	Body O line to ground - front		5.0		5.3		6.0	
H137	Body O line to ground - rear			3.9			5.9	5.0

## CLEARANCES

H106	Angle of approach (degrees)				25			
H107	Angle of departure (degrees)			15			13	
H147	Ramp breakover angle (degrees)			10			11	
H148	Front suspension to ground		5.4		5.7		6.4	
H149	Oil pan to ground		5.4		5.7		6.4	
H150	Flywheel housing to ground		5.8		6.0		6.8	
H151	Frame to ground		5.8		6.0		7.3	6.9
H152	Exhaust system to ground			4.8			5.8	
H153	Rear axle to ground							
H154	Fuel tank to ground			11.2			13.7	9.9
H155	Tire well to ground			Located over rear axle				Rr, seat
H156	Minimum ground clearance			4.8 (H152)			5.8 (H152)	



# VEHICLE WEIGHTS

## CHEVELLE 300

MODEL SYMBOL	VEHICLE TYPE	SHIPPING WEIGHT			CURB WEIGHT		
		Front	Rear	Total	Front	Rear	Total
6 Cyl. V8	Description						
13127	2-Door Coupe	1675	1345	3020	1675	1490	3165
13227		1780	1375	3155	1795	1520	3315

## CHEVELLE 300 DELUXE

13327	2-Door Coupe	1685	1350	3035	1685	1495	3180
13427		1790	1380	3170	1805	1525	3330
13369	4-Door Sedan	1710	1395	3105	1710	1540	3250
13469		1815	1425	3240	1825	1570	3395
13337	2-Door Sport Coupe	1695	1355	3050	1695	1505	3200
13437		1800	1385	3185	1810	1535	3345

## MALIBU

13569	4-Door Sedan	1720	1405	3125	1720	1550	3270
13669		1825	1430	3255	1835	1580	3415
13537	2-Door Sport Coupe	1705	1365	3070	1705	1550	3220
13637		1810	1395	3205	1820	1540	3360
13539	4-Door Sport Sedan	1750	1435	3185	1750	1580	3330
13639		1855	1460	3315	1870	1605	3475
13567	2-Door Convertible	1740	1395	3135	1740	1540	3280
13667		1840	1420	3260	1855	1565	3420
13535	4-Door Station Wagon, 2-Seat	1700	1740	3440	1715	1885	3600
13635		1805	1770	3575	1815	1915	3730

## MALIBU SUPER SPORT

13837	2-Door Sport Coupe	2035	1475	3510	2065	1620	3685
13867	2-Door Convertible	2070	1500	3570	2095	1645	3740

## NOMAD

13135	4-Door Station Wagon, 2-Seat	1670	1700	3370	1665	1850	3515
13235		1770	1730	3500	1780	1880	3660

## NOMAD CUSTOM

13335	4-Door Station Wagon, 2-Seat	1690	1725	3415	1690	1870	3560
13435		1790	1755	3545	1800	1905	3705

## CONCOURS

13535	4-Door Station Wagon, 2-Seat	1710	1740	3450	1705	1890	3595
13635		1810	1770	3580	1820	1920	3740

## EL CAMINO

13380	2-Door Sedan Pickup	1685	1375	3060	1680	1525	3205
13480		1790	1405	3195	1800	1550	3350
13580		1690	1385	3075	1690	1530	3220
13680		1800	1410	3210	1810	1560	3370
13880		2030	1470	3500	2055	1620	3675

**SHIPPING WEIGHT:** Weight of basic vehicle with regular equipment and grease and oil. Weight of gasoline and water not included.

**CURB WEIGHT:** Weight of empty vehicle ready to drive. Shipping weight plus weights of gasoline and water.

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

RPO	Option	Weight	RPO	Option	Weight
A31	Power Window	+ 24	M10	Overdrive Transmission	+ 28
A51	Strato Bucket Seats	+ 21	M13	Heavy Duty 3-Spd. Transmission	+ 27
C06	Folding Top - Electric	+ 9	M20	4-Spd. Transmission	+ 10
C60	Air Conditioning	+110	M35	Powerglide Transmission	+ 4
D55	Frnt. Compt. Flr. Console	+ 16	M40	3-Spd. Automatic Transmission	+ 31
J50	Power Brakes	+ 11	N10	Dual Exhaust	+ 40
J52	Front Disc Brakes	+ 44	N40	Power Steering	+ 29
L22	250 Cu.in. L-6	+ 15	T60	Heavy Duty Battery	+ 15
L30	327 Cu.in. V-8	+ 33	U57	Tape Player	+ 25
L34	396 Cu.in. V-8	+ 11	U63	Radio- Push-Button	+ 8
L73	327 Cu.in. V-8	+ 31	U69	Radio- AM/FM	+ 9
L79	327 Cu.in. V-8	+ 80	U79	Radio Stereo Equipment	+ 12

# 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.** Marks, nicks, or scratches that occur during final assembly are corrected at the factory before shipment. When required, light "shush" 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 300 131-13200 SERIES**  
**CHEVELLE 300 DELUXE 133-13400 SERIES**  
**NOMAD STATION WAGON 131-13200 SERIES**  
**NOMAD CUSTOM STATION WAGON 133-13400 SERIES**  
**EL CAMINO 133-13400 SERIES**  
**EL CAMINO DELUXE 135-136-13800 SERIES**

SERIES	MODELS					TRIM	INTERIOR TRIM AND RPO NUMBERS			
	27	69	37	35	80		Black	Blue	Saddle	Gold
300	X					Vinyl Bench	761	777	--	752
300 Deluxe	X	X	X			Cloth Bench	762	770	--	778
300 Deluxe	X	X	X			Vinyl Bench	760	--	--	--
Nomad				X		Vinyl Bench	761	777	799	--
Nomad Custom				X		Vinyl Bench	763	771	781	--
El Camino					X	Vinyl Bench	760	759	758	--
El Camino Custom					X	Vinyl Bench	765	773	782	--
El Camino Custom					X	Vinyl Bkt. Opt.	766	774	783	--
<b>EXTERIOR COLORS</b>										
AA	Black						X	X	X	X
CC	White						X	X	X	X
DD	Medium Blue						X	X	--	--
EE	Dark Blue						X	X	--	--
FF	Medium Teal						X	--	--	--
GG	Ivory Gold						X	--	X	X
HH	Medium Green						X	--	--	--
KK	Turquoise						X	--	--	--
LL	Dark Teal						X	X	--	--
NN	Maroon						X	--	X	--
PP	Silver Green						X	--	X	--
RR	Red						X	--	--	--
TT	Ivory						X	--	--	X
VV	Dark Green						X	--	X	X
YY	Yellow						X	--	--	X
<b>EXTERIOR COLOR COMBINATIONS (Lower/Upper)</b>										
DC	Med. Blue/White						--	X	--	--
DE	Med. Blue/Dk. Blue						--	X	--	--
ED	Dk. Blue/Med. Blue						--	X	--	--
GT	Ivory Gold/Ivory						X	--	--	X

Vinyl top option (RPO C08): Black or white — available for Sport Coupe models.

Two-tone exterior color combinations not available for Station Wagon or El Camino models.

# EXTERIOR-INTERIOR COLORS—Cont'd

## MALIBU 135-13600 SERIES MALIBU SPORT SEDAN LUXURY TRIM

MODELS				TRIM	INTERIOR COLORS AND RPO NUMBERS						
69	37	39	67		Black	Blue	Gold	Gray-Green	Red	Teal	Parch Black
X	X	X		Cloth Bench	764	772	779	791	--	--	--
		X		Vinyl Bench	765	--	754	--	--	755	--
X				Vinyl Bench	765	--	--	--	--	--	--
			X	Vinyl Bench	765	--	754	--	795	755	--
	X			Vinyl Bench	765	--	754	--	--	755	793
	X		X	Vinyl Bkr. Opt.	766	--	756	--	--	757	794
		X		Cloth Bench Opt. (a)	768	776	780	753	--	--	--
COUPE											
AA	Black				X	X	X	X	X	X	X
CC	White				X	X	X	X	X	X	X
DD	Medium Blue				X	X	--	--	--	--	X
EE	Dark Blue				X	X	--	X	--	X	X
FF	Medium Teal				X	--	--	--	--	X	X
GG	Ivory Gold				X	--	X	--	--	--	X
HH	Medium Green				X	--	--	X	--	--	X
KK	Turquoise				X	--	--	--	--	--	X
LL	Dark Teal				X	X	--	X	--	X	X
NN	Maroon				X	--	--	--	X	--	X
PP	Silver Green				X	--	--	X	--	--	X
RR	Red				X	--	--	--	X	--	X
TT	Ivory				X	--	X	X	--	X	X
VV	Dark Green				X	--	X	X	--	--	X
YY	Yellow				X	--	X	--	--	--	X
CONVERTIBLE TOPS (Lower/Upper)											
DC	Med. Blue/White				--	X	--	--	--	--	--
DE	Med. Blue/Dk. Blue				--	X	--	--	--	--	--
ED	Dk. Blue/Med. Blue				--	X	--	--	--	--	--
GT	Ivory Gold/Ivory				X	--	X	--	--	--	--
LF	Dark Teal/Med. Teal				--	--	--	--	--	X	--

(a) Luxury trim option.

Vinyl top option (RPO C08): Black or white available for Sport Coupe models.

Convertible top: White (regular production): Black or blue (RPO C05) with any exterior color.

# EXTERIOR-INTERIOR COLORS—Cont'd

## SS 396 SERIES

MODEL		TRIM	INTERIOR TRIM AND RPO NUMBERS				
37	67		Black	Gold	Red	Teal	Parch Black
	X	Vinyl Bench	765	754	795	755	--
X		Vinyl Bench	765	754	--	755	795
X	X	Vinyl Bkt. Option	766	756	--	757	794
<b>EXTERIOR COLORS</b>							
AA		Black	X	X	X	X	X
CC		White	X	X	X	X	X
DD		Medium Blue	X	--	--	--	X
EE		Dark Blue	X	--	--	X	X
FP		Medium Teal	X	--	--	X	X
GG		Ivory Gold	X	X	--	--	X
HH		Medium Green	X	--	--	--	X
KK		Turquoise	X	--	--	--	X
LL		Dark Teal	X	--	--	X	X
NN		Maroon	X	--	X	--	X
PP		Silver Green	X	--	--	--	X
RR		Red	X	--	X	--	X
TT		Ivory	X	X	--	X	X
VV		Dark Green	X	X	--	--	X
YY		Yellow	X	X	--	--	X
<b>EXTERIOR COLOR COMBINATIONS</b>							
KC		Turquoise/White	--	--	X	--	--
GT		Ivory Gold/Ivory	X	X	--	--	--
LF		Dark Teal/Med. Teal	--	--	--	X	--

Two-tone exterior color combinations not available for Convertible models.  
 Convertible top: White (regular production); black or blue (RPO C05) with any exterior color.  
 Vinyl top option (RPO C08): Black or white available for Sport Coupe models.

# EXTERIOR-INTERIOR COLORS—Cont'd

SS 396

## RPO D96 PAINT STRIPE COLOR

RPO	COLOR	Black	Teal	Parch/Black	Gold	Red	
AA	Black	Red	White	Red	White	Red	
CC	White	Black					Red
DD	Medium Blue	White					
EE	Dark Blue	White					
FF	Medium Teal	Black	White	Black		White	
GG	Ivory Gold	Black					
HH	Medium Green	Black					
KK	Turquoise	Black					
LL	Dark Teal	Black	White	Black		White	
NN	Maroon	White					
PP	Silver Green	Black					
RR	Red	White					
TT	Ivory	Black					
VV	Dark Green	White					
YY	Yellow	Black					

# EXTERIOR-INTERIOR COLORS—Cont'd

## MALIBU STATION WAGON CONCOURS STATION WAGON

MODEL	TRIM	INTERIOR COLORS AND RPO NUMBERS			
		Black	Blue	Saddle	Turquoise
SS					
X	Vinyl Bench	765	773	782	786
RPO EXTERIOR COLOR					
AA	Black	X	X	X	X
CC	White	X	X	X	X
DD	Medium Blue	X	X	--	--
EE	Dark Blue	X	X	--	--
FF	Medium Teal	X	--	--	--
GG	Ivory Gold	X	--	X	--
HH	Medium Green	X	--	--	--
KK	Turquoise	X	--	--	X
LL	Dark Teal	X	X	--	--
NN	Maroon	X	--	X	--
PP	Silver Green	X	--	X	--
RR	Red	X	--	--	--
TT	Ivory	X	--	--	--
VV	Dark Green	X	--	X	--
YY	Yellow	X	--	--	--



# BODY CONSTRUCTION AND GLASS AREA

## GENERAL

Type ----- Unisteel, with cowl, roof, underbody and body panels welded to form body shell. Doors, front and rear lids are of double-panel construction and hinges assembled to body. Separate frame and bolt-on front end sheet metal, with protective inner fender skirts

## DOORS AND LOCKS

Door construction ----- Double steel panels, hinged at front  
 Door handles ----- Push-button with fork type door locks, inside push-button locks and 2-position free-wheeling inside door handles on all doors  
 Door ventipanes ----- Crank operated

## HOOD AND TRUNK LID

Type ----- Counterbalanced, with spring loaded toggle action hinges on rear of hood and boxed hinges on trunk lid with torsion rod

## VENTILATION

High level for passenger compartment --- with double wall plenum chamber, providing washing and air drying of rocker panels for corrosion resistance. Air and water travel through rocker panels and drain at end of rocker inner panels

## SEAT CONSTRUCTION

Type --- Front seat cushion  
 1.25 poly foam ----- 131-132-133-13400  
 1.75 poly foam ----- 135-13600  
 1.50 poly foam ----- 137-13800  
 Rear seat cushion  
 Jute and cotton ----- 131-132-133-13400  
 1.00 poly foam ----- 135-136-137-13800

## WINDSHIELD WIPERS

Type ----- Concealed dual 2-speed electric for Malibu, SS 396, Concours and Custom El Camino. Concealed feature optional for balance of line  
 Linkage ----- Parallel acting with articulated left arm for Malibu, SS 396, concours and Custom El Camino -- optional for balance of line

## SPARE TIRE MOUNT

Location ----- Sedans and Sport Coupe, horizontal, RH side of trunk floor; Station Wagon, vertically in right hand side of cargo compartment rear of wheelhouse behind removable cover. Tools consist of bumper jack with combination lever handle and wheel nut wrench stored under tire

## BODY GLASS VISIBILITY AREA

LOCATION	MODELS							
	27	69	37	39	67	35	80	
Windshield	1208.7	1249.6	1208.7	1249.6	1211.8	1249.6	1208.7	
Front Door	Ventipane	88.0	90.0	94.4	97.8	94.4	88.8	
	Window	727.5	516.9	692.6	515.4	692.6	516.9	
Rear Door Window		590.1		690.4		574.5		
Rear Quarter Window	301.3		364.1		323.6	1238.5		
Back Window	1039.4	1032.2	1059.4	1032.2	539.7	757.0	695.6	
Total Area (Sq. in.)	3384.9	3478.8	3419.2	3585.4	2862.1	4426.5	2553.1	

All window glass curved safety solid plate except curved laminated safety plate windshield and flat safety solid plate fixed convertible rear window.

# CHASSIS

FRAME AND FRONT SUSPENSION .....	2
STEERING, DRIVELINE, WHEELS AND TIRES .....	3
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# 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 and 4-dr sport sedan-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 spherically jointed steering knuckles for each wheel.

## CONTROL ARMS

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

## STEERING KNUCKLES

Description ----- Forged steel with integral brake cylinder mounting, and detachable steering knuckle arm

Spindle diameters	
Inner bearing	1.2493-1.2498
Outer bearing	.7493-.7448
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	Two bearing surfaces: Upper teflon coated phenolic; Lower teflon cotton composition
Lower	One upper surface, teflon-cotton composition

## SHOCK ABSORBERS

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

Piston diameter ----- 1.00

## STABILIZER BAR

Type	Link
Material	HR steel
Diameter	Except SS396 - .812; SS396 - .937

## FRONT WHEEL ALIGNMENT (Curb)

Camber	0° to P1°
Caster	All SS396 and other sedan pickup models --- N1° to 0° Balance of models ----- N1-1/2° to N1/2°
Toe (Total)	1/8 in. to 1/4 in., toe-in
S.A.I.	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

## FRONT SPRINGS CHART TO BE PROVIDED

# STEERING, DRIVELINE, WHEELS AND TIRES

## MANUAL STEERING, REGULAR PRODUCTION

Description ----- Semi-reversible,  
recirculating ball nut gear; and  
a collapsible steering column for  
safety. Tilt steering wheel optional.  
Ratios ----- Gear, 24:1; overall, 28:1  
Turning diameters (ft)  
Outside front, wall to wall -----  
Outside front, curb to curb -- 112 WB-39; 116 WB-41  
Inside rear, wall to wall -----  
Inside rear, curb to curb -----  
Number of wheel turns, lock to lock ----- 5.5  
Outside wheel angle with inside wheel @ 20° ---- 18.6°  
Linkage ----- Parallelogram  
front of wheels, 2 tie rods

## POWER STEERING, RPO N40

(Same as standard Manual Steering except as shown)  
Type ----- Integral gear, with  
vane type pump driven by crankshaft  
pulley providing hydraulic pressure  
Ratio ----- Gear, 17.5:1; overall, 20.4:1  
Number of wheel turns, lock to lock ----- 4.0

## DRIVELINE

Type ----- Tubular, exposed  
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 SS 396, 14 x 5; SS 396 14 x 6  
Offset ----- 1.00

## WHEELS, DISC BRAKES (Same as regular production except as follows)

Offset ----- Except SS 396, .56; SS 396, .88

## WHEELS, RALLY-TYPE, RPO ZJ7 (Same as regular production except as follows)

Type ----- Short spoke spider with large  
ventilation slots  
Offset ----- Except SS 396, .50; SS 396, .88

## TIRES, REGULAR PRODUCTION

Construction ----- 2 Ply  
Rating ----- 4 Ply rated (4 pr)  
Sizes  
7.35-14 (all except SS 396 and Station Wagons)  
Static loaded radius ----- 12.1  
Loaded rev/mi @ 50 MPH ----- 803  
Capacity @ 24 PSI ----- 1160  
7.75-14 (Station Wagons)  
Static loaded radius ----- 12.4  
Loaded rev/mi @ 50 MPH ----- 779  
Capacity @ 24 PSI ----- 1270  
F70-14 (SS 396 Coupe and Convertible)  
Static loaded radius ----- 11.9  
Loaded rev/mi @ 50 MPH ----- 1280  
Capacity @ 24 PSI -----  
G70-14 (SS 396 Sedan Pickup)  
Static loaded radius -----  
Loaded rev/mi @ 50 MPH -----  
Capacity @ 24 PSI ----- 1380  
Standard tire pressure (PSI, cold)  
Station Wagons ----- F-22, R-32  
Sedan Pickup except SS Sedan Pickup --- F-24, R-32  
SS Sedan Pickup ----- F-24, R-28  
Balance of models ----- F-26, R-28

# REAR AXLE AND SUSPENSION

## REAR AXLE

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

Pinion offset ----- (Vert) 1.50

Hypoid gear PD  
 2.73, 3.08, 3.36, 3.55, 3.70 ----- 8.125  
 2.56, 2.73, 3.07, 3.31, 3.55, 3.73, 4.10, 4.56, 4.88 - 8.875

Pinion bearing adjustment ----- Shim

Lubricant  
 Type ----- Military Spec. MIL-L-210S-B  
 Viscosity ----- SAE 80  
 Capacity (pts) ---- 8.125 hypoid gear ----- 3.5  
                           8.875 hypoid gear ----- 4.0

## AXLE SHAFT

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

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

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

## RING AND PINION GEAR TOOTH COMBINATIONS

8.125 Ring Gear Diameter  
 2.73:1 ratio ----- 41, 15  
 3.08 ----- 37, 13  
 3.36 ----- 37, 11  
 3.55 ----- 39, 11  
 3.70 ----- 37, 10

8.875 Ring Gear Diameter  
 2.56 ----- 41, 16  
 2.73 ----- 41, 15  
 3.07 ----- 43, 14  
 3.31 ----- 43, 13  
 3.55 ----- 39, 11  
 3.73 ----- 41, 11  
 4.10 ----- 41, 10  
 4.56 ----- 41, 9  
 4.88 ----- 39, 8

## POSITRACTION DIFFERENTIAL (see Power Trains)

Type ----- Two pinion with single disk clutch

## REAR SUSPENSION

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

## Wheel travel (design)

Total --- Except wagon and pickup ----- 8.89  
                   Wagon and pickup ----- 8.23

Jounce -- Except wagon and pickup ----- 3.57  
                   Wagon and pickup ----- 2.91

Rebound ----- 5.32

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 SPRINGS CHART  
 TO BE PROVIDED

# BRAKES

## 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)	59.0 F; 41.0 R
Brake drum	
Diameter	9.5
Construction	
Station wagons and SS396	Composite, web cast into rim; finned front drums.
Balance of models	Composite, web cast into rim.
Material	
Web	HR steel
Rim	Cast iron alloy
Swept drum area	268.6
Brake lining	
Material	Compression molded asbestos composition except station wagons and SS396 wet rolled; grooved primary linings, front and rear, on station wagons and SS396.
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	
Station wagons and SS396	155.2
Balance of models	168.9
Gross lining area	168.9
Master cylinder	
Piston diameter	1.00
Piston travel (with available pedal travel)	1.13
Wheel cylinders	
Piston diameter	
Front	1.125
Rear	.9375
Foot pedal travel	7.14

## PARKING BRAKE

Type	Mechanical: Pull rods and cables operate two rear service brakes; parking brake "ON" warning lamp provided.
Total effective area	
Station wagons and SS396	68.2
Balance of models	75.0
Control	Pendulum foot pedal; released by T handle located below 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	3.53
Hydraulic	4.29
Overall	15.14
With front wheel disc brake system	
See front wheel disc brakes	
Master cylinder	
Piston travel (With available pedal travel)	1.44
Foot pedal travel	5.08

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

Type	Hub mounted front discs, with self-adjusting caliper units mounted on the steering knuckle, a metering valve is provided for balance between front and rear brakes
Braking ratios	
Pedal	3.53
Hydraulic	28.31
Overall	99.93
Total effective lining area, disc and drum	
Station wagons and SS396	106.1
Balance of models	112.4
Gross lining area, disc and drum	117.4
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	5.96 x 2.21 x .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	4
Diameter	2.063
Rear drums	
Diameter	.9375
Foot pedal travel	5.08

# BULBS AND LAMPS

BULBS AND LAMPS	NUMBER REQUIRED AND TRADE NUMBER	CANDLE POWER PER LAMP
Ash tray	1-1445	.7
Automatic transmission position pattern	Floor console, 2-1445	.7
Back-up	2-1156	32
Brake warning	1-1895	2
Clock (with tachometer option)	1-1895	2
Courtesy		
Instrument panel	2-631	6
Seat separator	1-212	6
Directional signal indicators	2-1895	2
Dome	1-211	12
Generator indicator	1-1895	2
Glove compartment	1-1895	2
Headlamp		
Outer	2-4002	High beam 37.5W Low beam 55.0W
Inner	2-4001	High beam 37.5W
Headlamp hi-beam indicator	1-1895	2
Heater controls	1-1895	2
Instrument cluster	6-1816	2
License plate, rear	1-67	4
Luggage compartment	1-1003	15
Oil pressure indicator	1-1895	2
Parking		
Park		4
Turn	2-1157	32
Radio	1-1893	2
Side Marker - Front	2-194-A	2
Side Marker - Rear	2-194	2
Spot lamp		
Inside operated	1-4405	30W
Portable	1-4416	30W
Tail		
Tail		4
Stop and turn	2-1157	32
Temperature indicator	1-1895	2
Underhood	1-93	15

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# POWER TEAM COMBINATIONS

ENGINE	TRANSMISSION	MODEL APPLICATION	AXLE RATIOS*							
			2.73:1	3.07:1	3.08:1	3.31:1	3.36:1	3.55:1	3.76:1	3.73:1
230 Cubic Inch L-6 Turbo-Thrift 230 (A) 140 HP Standard	3-Spd (2.85:1 low) & H.D. 3-Spd (2.86:1 low)	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
	Overdrive Powerglide	All Models & A/Cond.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
		Sedans & Coupes	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
Sta. Wagons & Pickups	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
	With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
250 Cubic Inch L-6 Turbo-Thrift 250 (A) 155 HP RPO L22	3-Spd (2.85:1 low) & H.D. 3-Spd (2.86:1 low) & Powerglide	Sedans & Coupes	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
		Sta. Wagons & Pickups	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.
	Overdrive	All Models & A/Cond.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
307 Cubic Inch V-8 Turbo-Fire 307 (A) 200 HP Standard	3-Spd (2.85:1 low) & H.D. 3-Spd (2.86:1 low) & 4-Spd (2.85:1 low) & Powerglide	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
	Overdrive	All Models & Air Cond.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
327 Cubic Inch V-8 Turbo-Fire 327 (A) 250 HP RPO L73	3-Spd (2.54:1 low) & H.D. 3-Spd (2.41:1 low) & 4-Spd (2.54:1 low) & Powerglide	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
327 Cubic Inch V-8 Turbo-Fire 327 (A) 275 HP RPO L30	3-Spd (2.54:1 low) & H.D. 3-Spd (2.41:1 low) & Powerglide	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
	4-Spd (2.54:1 low)	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
327 Cubic Inch V-8 Turbo-Fire 327 (A) 325 HP RPO L79	H.D. 3-Spd (2.41:1 low) & 4-Spd (2.52:1 low) & 4-Spd (2.20:1 low)	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
396 Cubic Inch V-8 Turbo-Jet 396 (B) 325 HP Standard	H.D. 3-Spd (2.41:1 low) & 4-Spd (2.52:1 low)	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
	Powerglide	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
		Turbo Hydra-Matic	All Models	Std(a)	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.		
	396 Cubic Inch V-8 Turbo-Jet 396 (B) 350 HP RPO L34	H.D. 3-Spd (2.41:1 low) & 4-Spd (2.52:1 low)	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.
With Air Conditioning			Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
4-Spd (2.20:1 low)		All Models	Spcl.	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
Powerglide		All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	
		With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.	
Turbo Hydra-Matic	All Models	Econ.	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.		
	With Air Conditioning	Std.	Perf.	Spcl.	Spcl.	Spcl.	Spcl.	Spcl.		

\* Positraction axle required for 4.10:1; available optionally for all other other ratios

(A) Not available with SS 396 models  
(B) Available only with SS 396 models

(a) Economy ratio 2.56 available optionally

Std. = Standard  
Econ. = Economy (optional)

Perf. = Performance (optional)

Spcl. = Special (optional)

## MULTIPLICATION FACTORS

### WITH MANUAL TRANSMISSIONS

ENGINE	CARBURETION	TRANSMISSION	TOTAL GEAR REDUCTION*					AXLE RATIO	
			1st	2nd	3rd	4th	Rev		
230 Cu.In. L-6 140 HP Standard	Single Barrel	3-Speed	9.58	5.64	3.36		9.91	3.36	
		Overdrive	Out	10.54	6.22	3.70		10.91	3.70
			In	7.40	4.37	2.59		10.91	3.70
		H.D. 3-Speed	9.61	5.78	3.36		9.91	3.36	
250 Cu.In. L-6 155 HP RPO L22	Single Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08	
		Overdrive	Out	10.54	6.22	3.70		10.91	3.70
			In	7.40	4.37	2.59		10.91	3.70
		H.D. 3-Speed	8.81	5.30	3.08		8.81	3.08	
307 Cu.In. V-8 200 HP Standard	2-Barrel	3-Speed	8.78	5.17	3.08		9.09	3.08	
		Overdrive	Out	10.54	6.22	3.70		10.91	3.70
			In	7.40	4.37	2.59		10.91	3.70
		H.D. 3-Speed	8.81	5.30	3.08		8.81	3.08	
327 Cu.In. V-8 275 HP RPO L30	4-Barrel	4-Speed	8.78	6.22	4.16	3.08	8.78	3.08	
		3-Speed	7.82	4.62	3.08		8.10	3.08	
		H.D. 3-Speed	7.42	4.90	3.08		7.42	3.08	
		4-Speed	7.82	5.54	4.43	3.08	7.82	3.08	
327 Cu.In. V-8 250 HP RPO L73	4-Barrel	3-Speed	7.82	4.62	3.08		8.10	3.08	
		H.D. 3-Speed	7.42	4.90	3.08		7.42	3.08	
		4-Speed	7.82	5.54	4.43	3.08	7.82	3.08	
		H.D. 3-Speed	7.98	5.26	3.31		7.98	3.31	
327 Cu.In. V-8 325 HP RPO L79	4-Barrel	4-Speed (2.52:1)	8.34	6.22	4.83	3.31	8.57	3.31	
		4-Speed (2.20:1)	7.28	5.43	4.20	3.31	7.48	3.31	
		H.D. 3-Speed	7.98	5.26	3.31		7.98	3.31	
		4-Speed	8.34	6.22	4.83	3.31	8.57	3.31	
396 Cu.In. V-8 325 HP Standard	4-Barrel	H.D. 3-Speed	8.56	5.64	3.55		8.56	3.55	
		4-Speed	8.95	6.67	5.18	3.55	9.19	3.55	
		4-Speed (2.52:1)	8.95	6.67	5.18	3.55	9.19	3.55	
		4-Speed (2.20:1)	7.81	5.82	4.51	3.55	8.02	3.55	

### WITH AUTOMATIC TRANSMISSIONS

ENGINE	TRANSMISSION	SELECTOR POSITION	TOTAL TORQUE MULTIPLICATION*	AXLE RATIO
230 Cu.In. L-6 140 HP Standard	Powerglide	Drive	11.77:1 - 3.08:1	3.08:1
		Low & Reverse	11.77:1 - 5.61:1	
250 Cu.In. L-6 155 HP RPO L22	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	
327 Cu.In. V-8 275 HP RPO L30	Powerglide	Drive	11.40:1 - 3.08:1	3.08:1
		Low & Reverse	11.40:1 - 5.42:1	
327 Cu.In. V-8 250 HP RPO L73	Powerglide	Drive	11.40:1 - 3.08:1	3.08:1
		Low & Reverse	11.40:1 - 5.42:1	
396 Cu.In. V-8 325 HP Standard	Powerglide	Drive	11.36:1 - 3.07:1	3.07:1
		Low & Reverse	11.36:1 - 5.40:1	
	Turbo Hydra-Matic	Drive	13.81:1 - 2.73:1	2.73:1
		Low	13.81:1 - 6.77:1	
396 Cu.In. V-8 350 HP RPO L34	Powerglide	Drive	12.24:1 - 5.83:1	3.31:1
		Low & Reverse	12.24:1 - 5.83:1	
	Turbo Hydra-Matic	Drive	15.53:1 - 3.07:1	3.07:1
		Low	15.53:1 - 7.61:1	
		Second	15.53:1 - 4.54:1	
		Reverse	13.02:1 - 6.39:1	

\* Axle ratio x transmission ratio.

# ENGINE DATA AND RATINGS

## GENERAL DATA

Engine Type	L6-OHV			V8-OHV			
	230	250	307	327			396*
Piston Displacement (Cu. In.)	230	250	307	327			396*
Availability	Base	RPO L22	Base	RPO L30	RPO L73	RPO L79	Base RPO L34
Number of Cylinders	Six			Eight			
Bore (nominal)	3.875			4.00			4.094
Stroke (nominal)	3.25	3.53	3.25			3.76	
Compression Ratio	8.5:1		9.00:1	10.0:1	8.75:1	11.0:1	10.25:1
Taxable (SAE) Horsepower	36.0		48.0	51.2			53.6
Firing Order	1-5-3-6-2-4			1-8-4-3-6-5-7-2			
Idling Speed	Synchromesh (in neutral)		700		750		700
	Powerglide (in drive)		500		600		600
	Turbo Hydra-Matic (in drive)		NA		NA		600
Comp. Press. (PSD @ Cranking Speed, Engine Hot)	140		150			160	
Power Plant Mountings	Front		Two, combination compression & shear type				
	Rear		One, shear type				
Measurements	Fan to rear of engine block		35.41		29.85		31.89
	Top of air cleaner to bottom of oil pan		27.19		29.23		29.27
	Width - including air cleaner		25.25		27.98		30.00

## ADVERTISED ENGINE RATING

Engine Designation	L6, 140 HP Turbo-Thrift 230 Cu. In.	L6, 155 HP Turbo-Thrift 250 Cu. In.	V8, 200 HP Turbo-Fire 307 Cu. In.	V8, 250 HP Turbo-Fire 327 Cu. In.	V8, 275 HP Turbo-Fire 327 Cu. In.	V8, 325 HP Turbo-Fire 327 Cu. In.	V8, 325 HP Turbo-Jet 396 Cu. In.	V8, 350 HP Turbo-Jet 396 Cu. In.
Availability	Standard	RPO L22	Standard	RPO L73	RPO L30	RPO L79	Standard*	RPO L34
Carburetor	Single Bbl.	Single Bbl.	Two Bbl.	Four Bbl.	Four Bbl.	Four Bbl.	Four Bbl.	Four Bbl.
Gross Brake HP @ RPM	140 @ 4400	155 @ 4200	200 @ 4600	250 @ 4800	275 @ 4800	325 @ 3600	325 @ 4800	350 @ 5200
Gross Torque @ RPM (lb-ft)	220 @ 1600	235 @ 1600	300 @ 2400	335 @ 3200	355 @ 3200	355 @ 3600	410 @ 3200	415 @ 3400

\* Available with SS 396 Models only.

# ENGINE SPEED AND PISTON TRAVEL

## 230 CUBIC INCH SIX CYLINDER ENGINE

Transmission	3-Speed	Heavy Duty 3-Speed	3-Speed with Overdrive		Powerglide
			OD Locked Out	OD Locked In	
Rear Axle Ratio	3.36:1		3.70:1		3.08:1 (a)
Tire Size	7.35 x 14 (b)				
Crankshaft Revolutions per Mile	2657.8		2926.7	2048.7	2436.3
Crankshaft RPM@1 MPH	Low	126.2	126.7	139.0	97.3
	Second	74.4	76.2	81.9	57.4
	Third	44.3	44.3	48.8	34.1
	Reverse	130.7	126.7	143.9	100.7
Piston Travel (ft/mile)	1439.6		1585.3	1109.7	1319.7

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

(b) 7.75 x 14 standard on Station Wagons.

## 250 CUBIC INCH SIX CYLINDER ENGINE

Transmission	3-Speed	Heavy Duty 3-Speed	3-Speed with Overdrive		Powerglide
			OD Locked Out	OD Locked In	
Rear Axle Ratio	3.08:1 (a)		3.70:1		3.08:1 (a)
Tire Size	7.35 x 14 (b)				
Crankshaft Revolutions per Mile	2436.3		2926.7	2048.7	2436.3
Crankshaft RPM@1 MPH	Low	115.7	116.1	139.0	97.3
	Second	68.2	69.8	81.9	57.3
	Third	40.6	40.6	48.8	34.1
	Reverse	119.8	116.1	143.9	100.7
Piston Travel (ft/mile)	1433.3		1721.9	1205.3	1433.3

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

(b) 7.75 x 14 standard on Station Wagons.

## 307 CUBIC INCH V-8 ENGINE

Transmission	3-Speed	Heavy Duty 3-Speed	3-Speed with Overdrive		4-Speed	Powerglide
			Locked Out	Locked In		
Rear Axle Ratio	3.08:1		3.70:1		3.08:1	
Tire Size	7.35 x 14 (a)					
Crankshaft Revolutions per Mile	2436.3		2926.7	2048.7	2436.3	
Crankshaft RPM@1 MPH	Low	115.7	116.1	139.0	97.3	115.7
	Second	68.2	69.8	81.9	57.3	82.3
	Third	40.6	40.6	48.8	34.1	54.8
	Fourth					40.6
	Reverse	119.8	116.1	143.9	100.7	115.7
Piston Travel (ft/mile)	1319.7		1585.3	1109.7	1319.7	

(a) 7.75 x 14 standard on Station Wagons.

## 327 CUBIC INCH V-8 ENGINE

Transmission	RPO L30 & L73				RPO L79			
	3-Speed	H.D. 3-Speed	4-Speed (b)	Powerglide	H.D. 3-Speed	4-Speed	4-Speed	
Rear Axle Ratio	3.08:1		3.07:1	3.08:1	3.31:1			
Tire Size	7.35 x 14 (a)				7.75 x 14			
Crankshaft Revolutions per Mile	2436.3		2428.4	2436.3	2545.4			
Crankshaft RPM @ 1 MPH	Low	103.1	97.9	103.1	102.8	71.5	102.2	106.9
	Second	60.9	68.2	73.1	72.9		67.4	79.8
	Third	40.6	40.6	58.5	58.3	40.6	42.4	61.9
	Fourth			40.6	40.5			42.4
	Reverse	106.8	97.9	103.1	102.8	71.5	102.2	109.9
Piston Travel (ft/mile)	1319.7		1315.4	1319.7	1378.8			

(a) 7.75 x 14 standard on Station Wagons; also standard on Malibu Sport Sedans and Convertibles with RPO L30

(b) 3.08:1 axle used with L73 and 3.07:1 used with L30

## 396 CUBIC INCH V-8 ENGINE

Transmission	Standard					RPO L34					
	H.D. 3-Spd	4-Spd	P/Gld	T/Hyd		H.D. 3-Spd	4-Spd	4-Spd	P/Gld	T/Hyd	
Rear Axle Ratio	3.31:1					3.07:1	2.73:1	3.55:1			3.31:1
Tire Size	7.75 x 14 (a)										
Crankshaft Revolutions per Mile	2611.6		2422.2	2154.0	2800.9		2611.6		2422.2		
Crankshaft RPM@1 MPH	Low	104.9	109.7	71.0	89.0	112.5	117.6	102.7	76.1	100.1	
	Second	69.2	81.8		53.1	74.2	57.8	76.6		59.7	
	Third	43.5	63.5	40.4	35.9	46.7	58.2	59.2	43.5	40.3	
	Fourth		43.5				46.7	46.7			
	Reverse	104.9	112.7	71.0	74.7	112.5	120.9	105.5	76.7	84.0	
Piston Travel (ft/mile)	1636.6		1517.9	1349.8	1755.3		1636.6		1509.6		

(a) 7.75 x 14 standard on Sedan Pickups.

# VEHICLE PERFORMANCE FACTORS

ENGINE	BASE 230 CU.IN. 140 HP	BASE 307 CU.IN. 200 HP	RPO L30 327 CU.IN. 275 HP	BASE 396 CU.IN. 325 HP	RPO L34 396 CU.IN. 350 HP	BASE 330 CU.IN. 140 HP	BASE 307 CU.IN. 200 HP
MODEL	13369	13469	13469	13837	13837	13380	13480

## 3-SPEED TRANSMISSION

Performance Weight (pounds)	3850	3995	4026	4283	4294	3506	3650
Pounds per Gross Horsepower	27.50	19.97	14.64	13.18	12.27	25.04	18.25
Pounds per Cu.In. Displacement	16.74	13.01	12.31	10.82	10.84	15.24	11.89
Gross HP per Cu.In. Displacement	.609	.651	.841	.821	.884	.609	.651
Power Displacement (cu.ft./mile)	176.88	216.42	230.52	299.24	320.94	176.88	216.42
Displacement Factor (cu.ft./ton mile)	91.88	108.37	114.51	139.77	149.48	100.90	118.58

## 3-SPEED TRANSMISSION WITH OVERDRIVE

Performance Weight (pounds)	3878	4023				3534	3678
Pounds per Gross Horsepower	27.70	20.11				25.24	18.39
Pounds per Cu.In. Displacement	16.86	13.10				15.36	11.98
Gross HP per Cu.In. Displacement	.609	.651				.609	.651
Power Displacement (cu.ft./mile)	Locked Out	194.77	259.98			194.77	259.98
	Locked In	136.34	181.99			136.34	181.99
Displacement Factor (cu.ft./ton mile)	Locked Out	100.45	129.28			110.23	141.37
	Locked In	70.39	90.50			77.16	98.96

## 4-SPEED TRANSMISSION

Performance Weight (pounds)		4005	4055	4257	4268		3660
Pounds per Gross Horsepower		20.02	14.74	13.10	12.19		18.30
Pounds per Cu.In. Displacement		13.05	12.40	10.75	10.78		11.92
Gross HP per Cu.In. Displacement		.651	.841	.821	.884		.651
Power Displacement (cu.ft./mile)		216.42	229.77	299.24	320.94		216.42
Displacement Factor (cu.ft./ton mile)		108.10	113.35	140.62	150.39		118.26

## TURBO HYDRA-MATIC

Performance Weight (pounds)				4314	4325		
Pounds per Gross Horsepower				13.27	12.36		
Pounds per Cu.In. Displacement				10.89	10.92		
Gross HP per Cu.In. Displacement				.821	.884		
Power Displacement (cu.ft./mile)				246.81	277.55		
Displacement Factor (cu.ft./ton mile)				114.42	128.37		

## POWERGLIDE

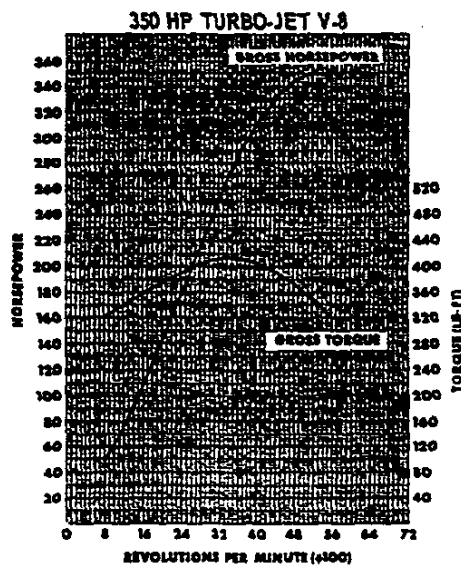
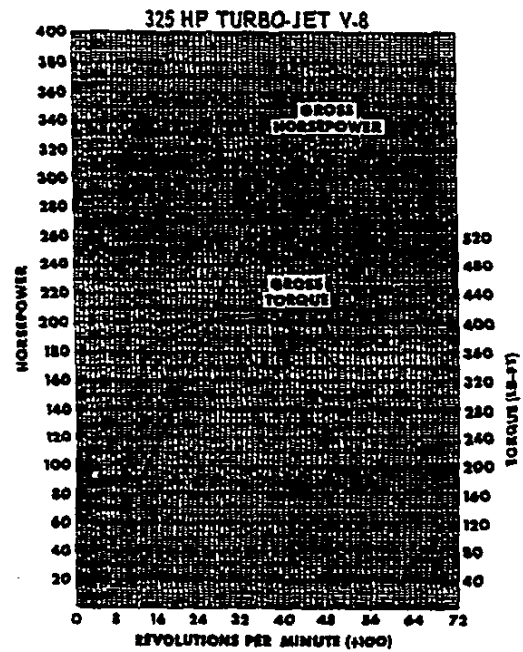
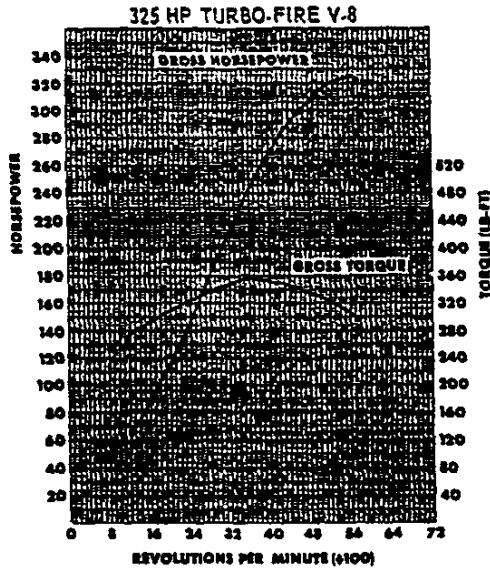
Performance Weight (pounds)	3852	4001	4032	4284	4295	3508	3656
Pounds per Gross Horsepower	27.51	20.00	14.66	13.18	12.27	25.06	18.28
Pounds per Cu.In. Displacement	16.75	13.03	12.33	10.82	10.85	15.25	11.91
Gross HP per Cu.In. Displacement	.609	.651	.841	.821	.884	.609	.651
Power Displacement (cu.ft./mile)	162.14	216.42	230.52	277.55	299.24	162.14	216.42
Displacement Factor (cu.ft./ton mile)	84.18	108.21	114.34	129.57	139.38	92.44	118.39

## 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	$\frac{\text{Power Displacement}}{\text{Performance Wt (tons)}}$

\* Models 13380 & 13480 two passengers, 300 lbs.

# ENGINE OUTPUT CURVES—Cont'd.



The engine output curves represent full throttle performance as obtained from dynamometer test data corrected to standard barometric pressure 29.92 inches of mercury and standard temperature of 60 degrees F.

GROSS POWER and TORQUE were obtained in a regular dynamometer test with the dynamometer exhaust system,

no fan, generator not charging, optimum spark advance, and optimum fuel setting.

NET POWER and TORQUE were obtained from a dynamometer test simulating actual operating conditions when the engine is in its vehicle, except the generator is not charging.

# PRINCIPAL COMPONENTS

## CYLINDER BLOCK

Material	-----	Cast alloy iron
<b>Bore Diameter</b>		
L6-230 & 250 Cu.in.	-----	3.8745-3.8775
V8-307 Cu.in.	-----	3.8745-3.8775
V8-327 Cu.in.	-----	3.9995-4.0025
V8-396 Cu.in.	-----	4.0925-4.0955
<b>No. of Bulkheads</b>		
L6	-----	7
V8	-----	5
Water Jacket	-----	Full length around each cylinder
<b>Cylinder Numbering Arrangement</b>		
L6	-----	1-2-3-4-5-6
V8	-----	Left bank 1-3-5-7 Right bank 2-4-6-8
<b>Bore Spacing (Centerline to Centerline)</b>		
L6-230 & 250 Cu.in.	-----	4.4
V8-307 & 327 Cu.in.	-----	4.4
V8-396 Cu.in.	-----	4.84

## CYLINDER HEAD

Material	-----	High chrome cast alloy iron
<b>Bolt No. &amp; Size</b>		
L6-230 & 250 Cu.in.	-----	10; .500 dia. 13 threads/in.
V8-307 & 327 Cu.in.	-----	34; .4375 dia. 14 threads/in.
V8-396 Cu.in.	-----	32; .4375 dia. 14 threads/in.

## COMBUSTION CHAMBER VOLUME

(Total chamber volume of assembled engine with piston at top center)

L6-230 Cu.in.	-----	5.37 Cu.in.
L6-250 Cu.in.	-----	5.73 Cu.in.
V8-307 Cu.in.	-----	5.02 Cu.in.
V8-327 Cu.in. (RPO L73)	-----	5.38 Cu.in.
V8-327 Cu.in. (RPO L30)	-----	4.69 Cu.in.
V8-327 Cu.in. (RPO L79)	-----	4.25 Cu.in.
V8-396 Cu.in. (RPO L35)	-----	5.61 Cu.in.
V8-396 Cu.in. (RPO L34)	-----	5.61 Cu.in.

## INLET MANIFOLD

Material	-----	Cast alloy iron
V8-327 Cu.in. (L79)	-----	Cast aluminum alloy
<b>Type</b>		
L6-230 & 250 Cu.in.	-----	3 port, rectangular section
V8-307, 327 & 396 Cu.in.	-----	8 port, double deck
Heat Provision	-----	Exhaust gas crossover at carburetor mounting pad

## EXHAUST MANIFOLD

Material	-----	Cast alloy iron
<b>Type</b>		
L6-230 & 250 Cu.in.	-----	4 port, center downtake
V8-307 & 327 Cu.in.	-----	Dual, 4 port, rear downtake
V8-396 Cu.in.	-----	Dual, 4 port, rear downtake
Outlet Diameter (Nominal)	-----	2.0, (V8-396) 2.5

## CRANKSHAFT

Material	-----	Cast nodular iron
L6-230 & 250 Cu.in.	-----	Cast nodular iron
V8-307 & 327 Cu.in. (RPO L30&L73)	-----	Cast nodular iron
V8-327 Cu.in. (RPO L79)	-----	Forged steel
V8-396 Cu.in. (Base SS)	-----	Nodular iron
V8-396 Cu.in. (RPO L34)	-----	Forged steel
<b>End Play</b>		
L6-230 & 250 Cu.in.	-----	.002-.006
V8-307 & 327 Cu.in.	-----	.002-.006
V8-396 Cu.in.	-----	.006-.010
<b>Counter Weights</b>		
L6-230 Cu.in.	-----	4
L6-250 Cu.in.	-----	12
V8-307, 327 & 396 Cu.in.	-----	6
<b>Crank Arm Length</b>		
L6-230 Cu.in.	-----	1.625
L6-250 Cu.in.	-----	1.765
V8-307 Cu.in.	-----	1.625
V8-327 Cu.in.	-----	1.625
V8-396 Cu.in.	-----	1.88
Torsional Damper	-----	Rubber mounted inertia
<b>Timing Gear</b>		
L6	-----	Steel; helical cut
V8	-----	Steel; sprocket & chain
Pulley Pitch Diameter	-----	6.64

## MAIN BEARINGS

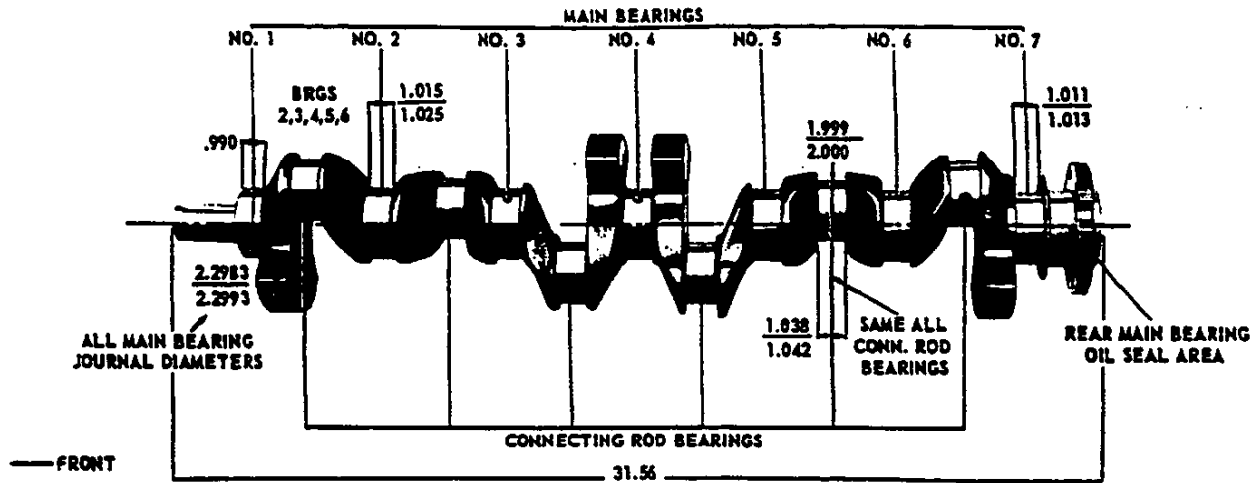
Material	-----	Steel, backed insert
(selected bearing material - copper lead alloy or premium aluminum - for intended engine operation & application)		
Type	-----	Precision removable
Thrust Against Bearing No.	-----	L6-No. 7; V8-No. 5
<b>Clearance</b>		
L6-230 & 250 Cu.in.	-----	.0003-.0029
V8-307 & 327 Cu.in.	-----	(#1) .0008-.0020;
	-----	(#2-3-4) .0008-.0024; (#5) .0015-.0031
V8-396 Cu.in.	-----	(#1 & 2) .0010-.0022;
	-----	(#3 & 4) .0013-.0025; (#5) .0015-.0031

Dimensions	Theoretical Inner Dia.	Effective Length	Projected Area
<b>L6-230 &amp; 250 Cu.in.</b>			
Bearing #1-6	2.3004	.752	1.7299
Bearing #7	2.3004	.760	1.7483
<b>V8-307 Cu.in.</b>			
Bearing #1	2.4502	.752	1.8425
Bearing #2-4	2.4505	.752	1.8428
Bearing #5	2.4507	1.177	2.8844
<b>V8-327 Cu.in.</b>			
Bearing #1	2.4502	.752	1.8425
Bearing #2-4	2.4505	.752	1.8428
Bearing #5	2.4507	1.177	2.8844
<b>V8-396 Cu.in.</b>			
Bearing #1-2	2.7507	.992	2.7287
Bearing #3-4	2.7505	.992	2.7287
Bearing #5	2.7506	1.2525	3.4451

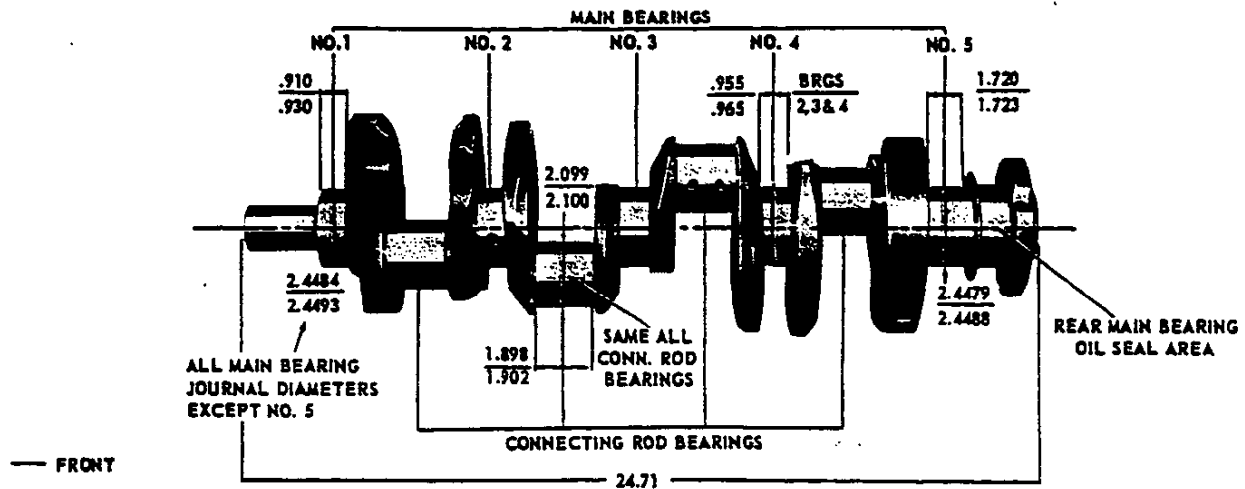
# PRINCIPAL COMPONENTS

## CRANKSHAFTS AND BEARINGS

### 230 CUBIC INCH SIX CYLINDER ENGINE



### 350 and 327 CUBIC INCH V-8 ENGINES





**CAMSHAFT**

Material ----- Cast alloy iron  
 Drive  
 L6 ----- Gear; bakelite and fabric composition  
 V8 ----- Sprocket & chain; steel  
 Lobe Lift  
 L6-230 Cu.In. ----- .1896 Inlet & Exhaust  
 L6-250 Cu.In. ----- .2217 Inlet & Exhaust  
 V8-307 & 327 Cu.In. (RPO L30 & L73) --- .2600 Inlet;  
 .2733 Exhaust  
 V8-327 Cu.In. (RPO L79) ----- .2981 Inlet & Exhaust  
 V8-396 Cu.In. ----- .2343 Inlet & Exhaust  
 V8-396 Cu.In. (RPO L34) -- .2714 Inlet; .2824 Exhaust  
 Camshaft Bearings ----- Steel backed babbit

Ends ----- Hardened  
 V8-327 Cu.In. (RPO L79) ----- Hardened steel  
 insert on rocker arm end  
 V8-396 Cu.In. ----- Hardened steel inserts

**VALVE TRAIN**

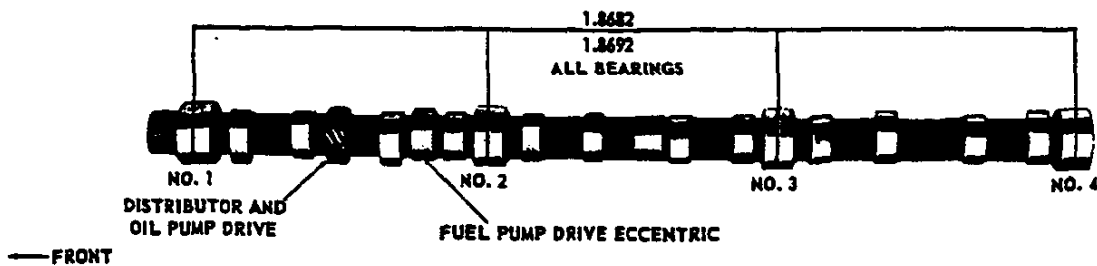
Type ----- Individually mounted,  
 overhead rocker arms, push rod actuated  
 Lifters ----- Hydraulic  
 Rocker Arms ----- Stamped steel  
 Ratio  
 L6-230 & 250 Cu.In. ----- 1.75:1  
 V8-307 & 327 Cu.In. ----- 1.50:1  
 V8-396 Cu.In. ----- 1.70:1  
 Push Rods  
 Type ----- Hollow steel

**VALVE SPRINGS**

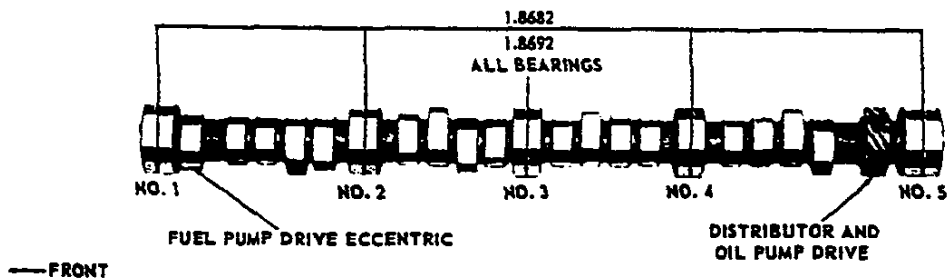
Diameter  
 L6-230 & 250 Cu.In. ----- .872-.888  
 V8-283 & 327 Cu.In. ----- .868-.884  
 V8-396 Cu.In. ----- 1.082-1.098  
 Installed Length (lb. @ in.)  
 Valves closed  
 L6-230 & 250 Cu.In. ----- 56-64 @ 1.66  
 V8-307 & 327 Cu.In. ----- 76-84 @ 1.70  
 V8-396 Cu.In. ----- 94-106 @ 1.88  
 Valves opened  
 L6-230 & 250 Cu.In. ----- 180-192 @ 1.23  
 V8-307 & 327 Cu.In. ----- 194-206 @ 1.25  
 V8-396 Cu.In. ----- 303-327 @ 1.38  
 Free Length  
 L6-230 & 250 Cu.In. ----- 1.90  
 V8-307 & 327 Cu.In. ----- 2.03  
 V8-396 Cu.In. ----- 2.09  
 Valve Spring Damper  
 L6-230 & 250 Cu.In. ----- None  
 V8-307 & 327 Cu.In. ----- Flat steel, 4 coils  
 V8-396 Cu.In. ----- Flat steel, 3.62 coils  
 Oil Shield ----- Steel cup

**CAMSHAFT AND BEARINGS**

**230 CUBIC INCH SIX CYLINDER ENGINE**



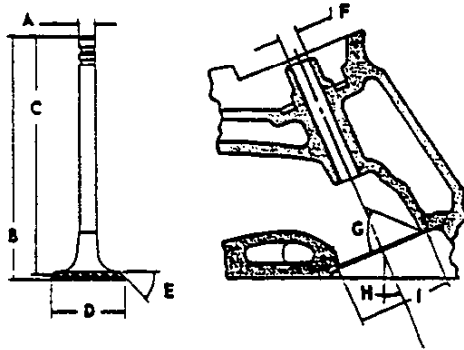
**307 and 327 CUBIC INCH V-8 ENGINES**



# PRINCIPAL COMPONENTS—Cont'd.

## INLET VALVES

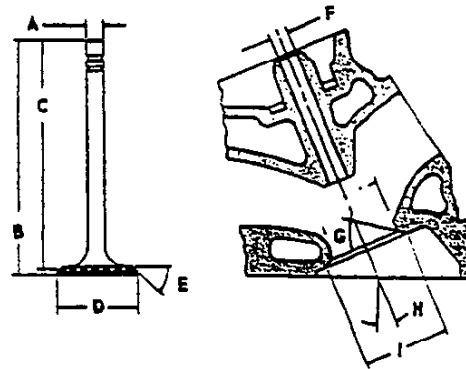
Material	-----	Alloy steel
Coating		
L6-230 & 250 Cu.In.	-----	None
V8-327 & 350 Cu.In.	-----	None
V8-396 Cu.In.	-----	Face and head aluminized
Valve Guide Inserts (V8-396)	-----	Cast alloy iron



<b>A - Stem Diameter</b>		
L6-230 & 250 Cu.In.	-----	.3410-.3417
V8-307 & 327 Cu.In.	-----	.3410-.3417
V8-396 Cu.In.	-----	.3715-.3722
<b>B - Overall Length</b>		
L6-230 & 250 Cu.In.	-----	4.902-4.922
V8-307 & 327 Cu.In. (RPO L73)	-----	4.902-4.922
V8-327 Cu.In. (RPO L30 & L79)	-----	4.870-4.889
V8-396 Cu.In.	-----	5.215-5.235
<b>C - Gage Length</b>		
L6-230 & 250 Cu.In.	-----	4.785-4.795
V8-307 & 327 Cu.In.	-----	4.785-4.795
V8-396 Cu.In.	-----	5.115-5.125
<b>D - Overall Head Diameter</b>		
L6-230 & 250 Cu.In.	-----	1.715-1.725
V8-307 & 327 Cu.In. (RPO L73)	-----	1.715-1.725
V8-327 Cu.In. (RPO L30)	-----	1.935-1.945
V8-327 Cu.In. (RPO L79)	-----	2.017-2.023
V8-396 Cu.In.	-----	2.060-2.070
<b>E - Angle of Face</b>	-----	45°
<b>F - Guide Diameter</b>		
L6-230 & 250 Cu.In.	-----	.3427-.3437
V8-307 & 327 Cu.In.	-----	.3427-.3437
V8-396 Cu.In.	-----	.3732-.3742
<b>G - Angle of Seat</b>	-----	46°
<b>H - Valve Angle</b>		
L6-230 & 250 Cu.In.	-----	9°
V8-307 & 327 Cu.In.	-----	23°
V8-396 Cu.In.	-----	4°
<b>I - Valve Seat (curter) Diameter</b>		
L6-230 & 250 Cu.In.	-----	1.770-1.790
V8-307 & 327 Cu.In. (RPO L73)	-----	1.990-2.010
V8-327 Cu.In. (RPO L30)	-----	1.990-2.010
V8-327 Cu.In. (RPO L79)	-----	2.020
V8-396 Cu.In.	-----	2.150

## EXHAUST VALVES

Material	-----	High alloy steel
Coating		
L6-230 & 250 Cu.In.	-----	None
V8-307 & 327 Cu.In.	-----	Aluminized face
V8-396 Cu.In.	-----	Face and head aluminized
Valve Guide Inserts (V8-396)	-----	Cast alloy iron



<b>A - Stem Diameter</b>		
L6-230 & 250 Cu.In.	-----	.3410-.3417
V8-307 & 327 Cu.In.	-----	.3410-.3417
V8-396 Cu.In.	-----	.3713-.3720
<b>B - Overall Length</b>		
L6-230 & 250 Cu.In.	-----	4.913-4.933
V8-307 & 327 Cu.In. (RPO L30 & L73)	---	4.913-4.933
V8-327 Cu.In. (RPO L79)	-----	4.891-4.910
V8-396 Cu.In.	-----	5.345-5.365
<b>C - Gage Length</b>		
L6-230 & 250 Cu.In.	-----	4.781-4.791
V8-283 & 327 Cu.In.	-----	4.781-4.791
V8-396 Cu.In.	-----	5.235-5.245
<b>D - Overall Head Diameter</b>		
L6-230 & 250 Cu.In.	-----	1.495-1.505
V8-307 Cu.In.	-----	1.495-1.505
V8-327 Cu.In. (RPO L30 & L73)	-----	1.495-1.505
V8-327 Cu.In. (RPO L79)	-----	1.595-1.605
V8-396 Cu.In.	-----	1.715-1.725
<b>E - Angle of Face</b>	-----	45°
<b>F - Guide Diameter</b>		
L6-230 & 250 Cu.In.	-----	.3427-.3437
V8-307 & 327 Cu.In.	-----	.3427-.3437
V8-396 Cu.In.	-----	.3732-.3742
<b>G - Angle of Seat</b>	-----	46°
<b>H - Valve Angle</b>		
L6-230 & 250 Cu.In.	-----	9°
V8-307 & 327 Cu.In.	-----	23°
V8-396 Cu.In.	-----	4°
<b>I - Valve Seat (curter) Diameter</b>		
L6-230 & 250 Cu.In.	-----	1.550-1.570
V8-307 & 327 Cu.In. (RPO L73)	-----	1.550-1.570
V8-327 Cu.In. (RPO L30)	-----	1.550-1.570
V8-327 Cu.In. (RPO L79)	-----	1.600
V8-396 Cu.In.	-----	1.625

**VALVE LIFT**

L6-230 Cu.In.	-----	.3317 Inlet & Exhaust
L6-250 Cu.In.	-----	.3880 Inlet & Exhaust
V8-307 & 327 Cu.In. (RPO L30 & L73)	----	.3900 Inlet; .4100 Exhaust
V8-327 Cu.In. (RPO L79)	-----	.4471 Inlet & Exhaust
V8-396 Cu.In.	-----	.3983 Inlet & Exhaust
V8-396 Cu.In. (RPO L34)	----	.4614 Inlet; .4800 Exhaust

**VALVE TIMING (Crankshaft degrees)**

	Excluding Ramps	Including Ramps
<b>L6-230 &amp; 250 Cu. In.</b>		
Inlet Valve (Zero lash)		
Opens - BTC	16°	62°
Closes - ABC	48°	94°
Duration	244°	336°
Exhaust Valve (Zero lash)		
Opens - BBC	46° 30'	92° 30'
Closes - ATC	17° 30'	63° 30'
Duration	244°	336°
<b>V8-307 &amp; 327 Cu.In. (L30 &amp; L73)</b>		
Inlet Valve (Zero lash)		
Opens - BTC	28°	38°
Closes - ABC	72°	92°
Duration	280°	310°
Exhaust Valve (Zero lash)		
Opens - BBC	78°	88°
Closes - ATC	30°	52°
Duration	288°	320°
<b>V8-327 Cu.In. (RPO L79)</b>		
Inlet Valve (Zero lash)		
Opens - BTC	40°	54°
Closes - ABC	86°	108°
Duration	306°	342°
Exhaust Valve (Zero lash)		
Opens - BBC	88°	102°
Closes - ATC	35°	60°
Duration	306°	342°
<b>V8-396 Cu.In.</b>		
Inlet Valve (Zero lash)		
Opens - BTC	28°	40°
Closes - ABC	78°	102°
Duration	286°	322°
Exhaust Valve (Zero lash)		
Opens - BBC	75°	87°
Closes - ATC	31°	55°
Duration	286°	322°
<b>V8-396 Cu.In. (RPO L34)</b>		
Inlet Valve (Zero lash)		
Opens - BTC	40°	56°
Closes - ABC	80°	114°
Duration	300°	350°
Exhaust Valve (Zero lash)		
Opens - BBC	88°	110°
Closes - ATC	32°	62°
Duration	300°	352°

**PISTONS**

**Material**

L6-230 & 250 Cu.In.	-----	Cast aluminum alloy
V8-307 Cu.In.	-----	Cast aluminum alloy
V8-327 Cu.In. (L30 & L73)	----	Cast aluminum alloy
V8-327 (RPO L79)	-----	Aluminum impact extruded
V8-396 Cu.In.	-----	Cast aluminum alloy

**Head Type**

L6, V8-307 & 327 Cu.In. (L30 & L73)	---	Flat, notched
V8-327 Cu.In. (RPO L79)	-----	Domed head
V8-396 Cu.In.	-----	Domed head, valve cutout

**Skirt Type**

	-----	Slipper
--	-------	---------

**Top Land Clearance**

L6-230 & 250 Cu.In.	-----	.0345-.0435
V8-307 Cu.In.	-----	.0215-.0305
V8-327 Cu.In.	-----	.0365-.0455
V8-396 Cu.In.	-----	.0305-.0375

**Skirt Clearance**

L6-230 & 250 Cu.In.	-----	.0005-.0011
V8-307 & 327 Cu.In. (L30 & L73)	-----	.0005-.0011
V8-327 Cu.In. (RPO L79)	-----	.0024-.0030
V8-396 Cu.In.	-----	.0010-.0016

**Compression Ring Groove Depth**

L6-230 & 250 Cu.In.	-----	.2153-.2218
V8-307 Cu.In.	-----	.2113-.2178
V8-327 Cu.In.	-----	.2217-.2283
V8-396 Cu.In.	-----	.2253-.2318

**Oil Ring Groove Depth**

L6-230 & 250 Cu.In.	-----	.2093-.2158
V8-307 Cu.In.	-----	.2053-.2118
V8-327 Cu.In.	-----	.2038-.2103
V8-396 Cu.In.	-----	.2098-.2163

**Pin Bore Offset**

	-----	.055-.065
--	-------	-----------

RPO L79 - On center

**Compression Height**

L6-230 & 250 Cu.In.	-----	1.658-1.662
V8-307 Cu.In.	-----	1.673-1.677
V8-327 Cu.In. (RPO L30 & L73)	-----	1.674-1.676
V8-327 Cu.In. (RPO L79)	-----	1.673-1.677
V8-396 Cu.In.	-----	1.953-1.957

**PISTON PINS**

**Material** ----- Chromium steel

**Length**

L6-230 & 250 Cu.In.	-----	2.990-3.010
V8-307 & 327 Cu.In.	-----	2.990-3.010
V8-396 Cu.In.	-----	2.930-2.950

**Diameter**

L6-230 & 250 Cu.In.	-----	.9270-.9273
V8-307 & 327 Cu.In.	-----	.9270-.9273
V8-396 Cu.In.	-----	.9895-.9893

**Clearance in Piston**

L6-230 & 250 Cu.In.	-----	.00015-.00025
V8-307 & 327 Cu.In.	-----	.00015-.00025
V8-396 Cu.In.	-----	.00025-.00035

# PRINCIPAL COMPONENTS—Cont'd.

## COMPRESSION RINGS - UPPER

Material	Cast alloy iron
Type	Inside bevel on L6-230 only Bottom of ring 30 degrees to piston vertical axis)
Face	
L6-230 Cu, In.	Tapered
L6-250 Cu, In.	Barrel
V8-307 & 327 Cu, In. (RPO L30 & L73)	Barrel
V8-327 Cu, In. (RPO L79)	Straight edge
V8-396 Cu, In.	Barrel
Coating	Chrome plate face
V8-327 (RPO L79) & 396 Cu, In.	Molybdenum inlay
Width	
L6-230 Cu, In.	.0775-.0780
L6-250 Cu, In.	.0625-.0633
V8-307 & 327 Cu, In. (RPO L30 & L73)	.0775-.0780
V8-327 (RPO L79) & 396 Cu, In.	.0770-.0775
Wall Thickness	
L6-230 Cu, In.	.179-.194
L6-250 Cu, In.	.184-.194
V8-307 Cu, In.	.184-.194
V8-327 Cu, In.	.190-.200
V8-396 Cu, In.	.194-.204
Gap	.010-.020

## COMPRESSION RINGS - LOWER

Material	Cast alloy iron
Type	Inside bevel (top of ring 30 degrees to piston vertical axis) 50 degrees for V8-396
Face	Tapered
Coating	Wear resistant
V8-327 (L79), V8-396 (L34)	Chrome plated
Width	
L6-230 Cu, In.	.0770-.0775
L6-250 Cu, In.	.0623-.0625
V8-307 Cu, In.	.0770-.0780
V8-327 & 396 Cu, In.	.0770-.0775
Wall Thickness	
L6-230 & 250 Cu, In.	.184-.194
V8-307 Cu, In.	.184-.194
V8-327 Cu, In.	.190-.200
V8-396 Cu, In.	.194-.204
Gap	
L6-230 & 250 Cu, In.	.010-.020
V8-307 Cu, In.	.010-.020
V8-327 Cu, In.	.013-.025
V8-396 Cu, In.	.010-.020

## OIL CONTROL RINGS

Type	Multi-piece (two rails and one spacer)
Material	
Rails	Steel
Spacer	Alloy steel
Width (assembled)	
L6-230 & 250 Cu, In.	.1870-.1890
V8-307 & 327 Cu, In.	.1870-.1890
V8-396 Cu, In.	.1870-.1890
Wall Thickness	
L6-230 Cu, In.	.150-.156
L6-250 Cu, In.	.152-.158
V8-307 & 327 Cu, In.	.150-.156
V8-396 Cu, In.	.137-.143
Gap	
L6-230 & 250 Cu, In.	.015-.055
V8-307 & 327 Cu, In.	.015-.055
V8-396 Cu, In.	.010-.030
Rail Coatings	Chrome plated

## CONNECTING RODS

Material	Drop forged steel
Length (center to center)	
L6-230 & 250 Cu, In.	5.699-5.701
V8-396 Cu, In.	6.130-6.140
V8-307 & 327 Cu, In.	5.699-5.701

## CONNECTING ROD BEARINGS

Material	
L6-230, 250 & V8-307 Cu, In.	Copper lead alloy or sintered copper nickel backed babbitt on steel
V8-327 & 396 Cu, In.	Premium aluminum
Type	Precision removable
Clearance	
L6-230 & 250 Cu, In.	.0007-.0027
V8-307 & 327 Cu, In.	.0007-.0028
V8-396 Cu, In.	.0009-.0029
Theoretical I.D.	
L6-230 & 250 Cu, In.	2.0017
V8-307 & 327 Cu, In.	2.1017
V8-396 Cu, In.	2.2014
Effective Length	
L6-230, 250 & V8-307 Cu, In.	.807
V8-327 Cu, In.	.797
V8-396 Cu, In.	.857
End Play	
L6, V8-307 & 327 Cu, In.	.009-.013
V8-396 Cu, In.	.016-.020

# FUEL SYSTEM

### FUEL TANK

Capacity (Gal) ----- 20 (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

### FUEL PUMP ASSEMBLY

Type ----- Mechanical; diaphragm  
 Drive ----- Camshaft, eccentric  
 Location ----- Right side front of engine  
 Pressure Range (at Carburetor)  
 L6-230 & 250 Cu.in. ----- 3.50-4.50 PSI  
 V8-307 & Cu.in. ----- 5.00-6.50 PSI  
 V8-396 Cu.in. (Base SS) ----- 5.00-6.50 PSI  
 V8-396 Cu.in. (RPO L34) ----- 7.25-8.50 PSI

### AIR CLEANER

L6-230 & 250 Cu.in. ----- Cylindrical, single air horn  
 V8-307 Cu.in. ----- Cylindrical,  
 single air horn  
 V8-327 Cu.in. (RPO L30 & L73) ----- Cylindrical  
 full circle intake, chrome plated  
 V8-396 Cu.in. (Base SS) ----- Cylindrical,  
 single air horn, chrome plated  
 V8-396 Cu.in. (RPO L34) ----- Cylindrical,  
 full circle intake, chrome plated  
 Diameter  
 L6-230 & 250 Cu.in. ----- 13.00  
 V8-307 Cu.in. ----- 13.00  
 V8-327 Cu.in. (RPO L30 & L73) ----- 15.48  
 V8-327 Cu.in. (RPO L79) ----- 14.16  
 V8-396 Cu.in. (Base SS) ----- 16.78  
 V8-396 Cu.in. (RPO L34) ----- 14.16  
 Filter Element ----- Oil-wetted paper

### CARBURETORS

Make and Type  
 L6-230 & 250 Cu.in. ----- Rochester,  
 single barrel, Monojet  
 V8-307 Cu.in. ----- Rochester,  
 2-barrel, downdraft  
 V8-327 Cu.in. ----- Rochester, Quadrajet  
 V8-396 Cu.in. ----- Rochester, Quadrajet  
 SAE Flange Type  
 L6-230 & 250 Cu.in. ----- 1.50  
 V8-307 Cu.in. ----- 1.25  
 V8-327 Cu.in. ----- 1.50  
 V8-396 Cu.in. ----- 1.50  
 Throttle Bore  
 L6-230 & 250 Cu.in. ----- 1.69  
 V8-307 Cu.in. ----- 1.44  
 V8-327 Cu.in.  
 Primary ----- 1.38  
 Secondary ----- 2.25  
 V8-396 Cu.in.  
 Primary ----- 1.38  
 Secondary ----- 2.25  
 Secondary Throttle Actuation ----- By  
 linkage approximately when primary valves  
 are opened halfway between closed and open  
 Venture Diameter  
 L6-230 & 250 Cu.in. ----- 1.31  
 V8-307 Cu.in. ----- 1.09  
 V8-327 Cu.in.  
 Primary ----- 1.09  
 Secondary ----- Air valve  
 V8-396 Cu.in.  
 Primary ----- 1.09  
 Secondary ----- Air valve

### CHOKE

Type ----- Automatic

# EXHAUST AND VENTILATION SYSTEM

## TYPE

L6-230 & 250 Cu.In.	Single
V8-307 & 327 (RPO L30 & L73)	Single
	with crossover pipes
V8-327 Cu.In. (RPO L79)	Dual
V8-396 Cu.In.	Dual

## MUFFLERS

Type	Oval, reverse flow
Construction	Heads and body joined by rolled lock seam construction
Head	
L6-230, 250 & V8-307 Cu.In.	.047 sheet steel, aluminized
V8-327 Cu.In. (RPO L30 & L73)	.060 sheet steel, aluminized
V8-327 (RPO L79) & V8-396 Cu.In.	
Left hand	.060 sheet steel, aluminized
Right hand	.060 stainless steel
Shell	
L6-230 & 250 Cu.In.	.035 sheet steel, zinc coated
V8-307 Cu.In.	.035 sheet steel, zinc coated
V8-327 Cu.In. (RPO L30 & L73)	.035 sheet steel, zinc coated
V8-327 (RPO L79) & V8-396 Cu.In.	
Left hand	.036 sheet steel, zinc coated
Right hand	.036 stainless steel
Wrap	.030 indurad asbestos sheet
Cover	.018 sheet steel, aluminized
Baffles	
L6-230 & 250 Cu.In.	
No. 1, 2, 3 & 4	.047 sheet steel, zinc coated
V8-307 & 327 (RPO L30 & L73)	
No. 1 & 4	.047 sheet steel, zinc coated
No. 2 & 3	.035 sheet steel, zinc coated
V8-327 (RPO L79) & V8-396 Cu.In.	
Left hand	
No. 1 & 4	.047 sheet steel, zinc coated
No. 2 & 3	.036 sheet steel, zinc coated
Right hand	
No. 1, 2, 3 & 4	.036 stainless steel
Length, Body	
L6-230 & 250 Cu.In.	17.00
V8-307, 327 & 396 Cu.In.	21.25
Width (I.D.)	9.25
Height (I.D.)	5.00

## EXHAUST CROSSOVER PIPE (V8-307 & 327-RPO L30 & L73)

Dimensions (O.D.)	2.00
Wall Thickness	.073-.091 laminated

## EXHAUST PIPE

Dimensions (O.D.)	
L6-230 & 250 Cu.In.	2.00
V8-307 Cu.In.	2.00
V8-327 & 396 Cu.In.	2.50
Wall Thickness	
L6-230 & 250 Cu.In.	.057-.071
V8-307 Cu.In.	.073-.091 laminated
V8-327 & 396 Cu.In.	.073-.091 laminated

## TAIL PIPES

Dimensions (O.D.)	
L6-230 & 250 Cu.In.	1.875
V8-307 Cu.In.	1.875
V8-327 (RPO L30 & L73) Cu.In.	1.875
V8-327 (RPO L79) & V8-396 Cu.In.	2.25
Wall Thickness	.062-.076

## ENGINE VENTILATION

Type	Closed-positive
------	-----------------

## EXHAUST EMISSION CONTROL

All Manual Transmissions	Air Injection
	Reactor Equipment
All Auto. Trans. except RPO L34	Controlled
	Combustion System
Auto. Trans. with RPO L34	Air Injection
	Reactor Equipment

# LUBRICATION SYSTEM

## 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 metered  
 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 ----- Forward end of rocker cover  
 V8-307 & 327 Cu.in. -- Left front of intake manifold  
 V8-396 Cu.in. -- Top center of right rocker cover

## OIL PAN CAPACITIES (Quarts)

Refill  
 L6-230 & 250 Cu.in. ----- 4  
 V8-307, 327 & 396 Cu.in. ----- 4  
 Refill With Filter Change  
 L6-230 & 250 Cu.in. ----- 5  
 V8-307, 327 & 396 Cu.in. ----- 5

## LUBRICANT GRADES AND TEMPERATURES

32° F and Above ----- SAE20W or SAE10W-30  
 0° F to 32° F ----- SAE10W or SAE10W-30  
 Below 0° F ----- SAE5W or SAE5W-20  
 Alternate ----- SAE5W-30 can be used  
 at temperatures below freezing

## OIL PUMP

Type ----- Gear  
 Regulator Valve ----- Opens between 40-45 lbs.  
 Oil Pressure (Bench test, no flow condition)  
 L6-230 & 250 Cu.in. ----- 50-65 PSI @ 2000 RPM  
 V8-307 & 327 Cu.in. ----- 50-65 PSI @ 2000 RPM  
 V8-396 Cu.in. ----- 50-75 PSI @ 2000 RPM  
 Intake Type ----- Fixed pickup with screen  
 Capacity (GPM @ Engine RPM)  
 L6-230 & 250 Cu.in. ----- 4.3 @ 2000  
 V8-307 & 327 Cu.in. ----- 4.3 @ 2000  
 V8-396 Cu.in. ----- 6.0 @ 2000

## OIL FILTER

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

## OIL DIPSTICK - LOCATION

L6-230 & 250 Cu.in. --- Right side rear of engine block  
 V8-307 & 327 Cu.in. --- Left side, rear of engine block  
 V8-396 Cu.in. ---- Right side, center direct to oil pan

## OIL PAN DRAIN PLUG

Type ----- Hex head  
 Location  
 L6 ----- Front lower face of oil pan sump  
 V8 ----- 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)	
L6-230 & 250 Cu.In.	11 qts.
V8-307 Cu.In.	17 qts.
V8-327 Cu.In. (RPO L30 & L73)	16 qts.
V8-327 Cu.In. (RPO L79)	17 qts.
V8-396 Cu.In.	24 qts.

## RADIATOR

Make and Type	Harrison, tube and center
Core constant and thickness	
Distance between fins	
L6-230 & 250 Cu.In.	.25 Syn., .18 Auto
V8-307 Cu.In.	.20 Syn., .16 Auto
V8-327 Cu.In. (RPO L73)	.16 Syn., .18 Auto
V8-327 Cu.In. (RPO L30)	.20 Syn., .16 Auto
V8-327 Cu.In. (RPO L79)	.30 Syn.
V8-396 Cu.In.	.20 Syn., .18 Auto
Distance between tubes	.55
Thickness of core	1.26
Frontal area (sq.in.)	
L6-230 & 250 Cu.In.	353
V8-307 Cu.In.	353
V8-327 Cu.In. (L30 & L73)	353
V8-327 (RPO L79) & V8-396 Cu.In.	480

## RADIATOR HEAVY DUTY (RPO V01)

Core constant and thickness	
Distance between fins	
L6-230 & 250 Cu.In.	.16 Syn., .22 Auto
V8-307 Cu.In.	.16 Syn., .22 Auto
V8-327 Cu.In. (RPO L30)	.16 Syn., .22 Auto
V8-327 Cu.In. (RPO L73)	.16 Syn., .20 Auto
V8-327 Cu.In. (RPO L79)	.16 Syn.
V8-396 Cu.In.	.18 Syn., .20 Auto
Distance between tubes	.55
Thickness of core	
L6-230 & 250 Cu.In.	1.26 Syn., 1.98 Auto
V8-307 & 327 Cu.In.	1.26 Syn., 1.98 Auto
V8-396 Cu.In.	1.98
Frontal area (sq.in.)	
L6-230 & 250 Cu.In.	353
V8-307 & 327 Cu.In.	480
V8-396 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	
V8-327 (RPO L79) & V8-396 Cu.In. only	.745 ID

## RADIATOR HOSE

Outlet, lower (radiator to water pump)	
L6-230 & 250 Cu.In.	1.75 ID
V8-307 & 327 Cu.In.	1.88 ID
V8-396 Cu.In.	1.88 ID
Inlet, upper (thermostat hsg. to radiator)	
L6-230 & 250 Cu.In.	1.50 ID
V8-307, 327 & 396 Cu.In.	1.50 ID

## FAN

Number of blades	4
Diameter	17.62
Fan pulley pitch diameter	7.00

## BELTS, CRANKSHAFT, FAN AND GENERATOR

Number used	One
Angle of "V"	38°-42°
Pitch line	
L6-230 & 250 Cu.In.	39.00
V8-307 Cu.In.	53.50
V8-327 Cu.In.	53.50
V8-396 Cu.In.	56.20
Width	.380

## WATER PUMP

Type	Centrifugal
Capacity	
L6-230 & 250 Cu. In.	60 GPM @ 4400 Engine RPM
V8-307 Cu. In.	54 GPM @ 4400 Engine RPM
V8-327 Cu. In.	57 GPM @ 4400 Engine RPM
V8-396 Cu. In.	82 GPM @ 5200 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 hand, lower rear face
Engine Block - Plug	
L6-230 & 250 Cu. In.	Left side rear
V8-307 & 327 Cu. In.	Right and left center
V8-396 Cu. In.	Left side - rear of block
	Right side - center of block



# ELECTRICAL SYSTEM

## SUPPLY SYSTEM

### BATTERY

Voltage Rating	12
Cranking Power @ 0° F	
L6-230 & 250 Cu.In.	2300 watts
V8-307 Cu.In.	2300 watts
V8-327 & 396 Cu.In.	2900 watts
Heavy Duty (RPO T60)	3150 watts
Total Number of Plates	
L6-230 & 250 Cu.In.	54
V8-307 Cu.In.	54
V8-327 & 396 Cu.In.	66
Number of Cells	6
Terminal Grounded	Negative
Location	Right front engine compartment

Test Conditions ----- Engine at operating temp.  
No Load Test

Amps	
L6-230 & 250 Cu.In.	49-87
V8-307 & 327 (L73) Cu.In.	49-87
V8-327 (L30 & L79) Cu.In.	65-100
V8-396 Cu.In.	70-99
Volts	10.6
RPM	
L6-230 & 250 Cu.In.	6200-10700
V8-307 & 327 (L73) Cu.In.	6200-10700
V8-327 (L30 & L79) Cu.In.	3600-5100
V8-396 Cu.In.	7800-12000

### Motor Drive

Engagement	Solenoid
Pinion Tooth No.	9
Flywheel Tooth No.	153; V8-396 ----168
Mounting	Bolted to cylinder block flange

## GENERATOR

Type	Diode rectified
Rating	
Amps	9-37
Volts	12-15
Drive	By fan belt
Pulley Pitch Diameter	2.70
Ratio (Gen. to Engine Speed)	2.46:1

## IGNITION SYSTEM

DISTRIBUTORS ----- Refer to chart below

## COIL

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

## 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	Left side front engine compartment

## SPARK PLUGS

Type	
L6-230 & 250 Cu.In.	AC 46N (long reach)
V8-307 Cu.In.	AC 455
V8-327 (L73) Cu.In.	AC 445
V8-327 (L30 & L79) Cu.In.	AC 44
V8-396	AC 43N
Thread Size (mm)	14
Gap	.033-.038
Torque	25 lb ft

## STARTING SYSTEM

### STARTING MOTOR

Rotation (Drive End View) ----- Clockwise

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

DISTRIBUTORS	L6 230 Cu.In. 140 HP		L6 250 Cu.In. 155 HP		V-8 307 Cu.In. 200 HP	V-8 327 Cu.In. 250 HP	V-8 327 Cu.In. 275 HP	V-8 327 Cu.In. 325 HP	V-8 396 Cu.In. 325 & 350 HP	
	Man'l	Auto	Man'l	Auto	All Trans	All Trans	Man'l	Auto	Man'l	All Trans
Model	11110436	11110433	11110439	11110399	1111257	1111150	1111298	1111297	11111444	1111169
Type	Single breaker									
Cam angle	31°-34°				28°-32°					
Breaker gap	.019 (new)									
Breaker arm tension	19 - 23 oz									
Centrifugal advance begins (RPM)	1000		900		1000	900	900	950	28-32 oz	
Max degrees @ RPM	36 @ 4600	32 @ 4600	32 @ 4200	28 @ 4300	28 @ 4300	28 @ 4200	34 @ 4100	30 @ 4100	30 @ 4700	32 @ 5000*
Vacuum advance begins (In. Hg)	7.00		7.00		6.00	8.00	10.0	6.00	8.00	
Max degrees @ In. Hg	23 @ 16		23 @ 16		15 @ 12	15 @ 15.5	15 @ 17	15 @ 15.5	15 @ 15.5	
Timing (Initial design setting) (Crankshaft degrees @ RPM with vacuum line disconnected)	TDC @ 700	4 BTC @ 500	TDC @ 700	4 BTC @ 300	2 BTC @ 600 man'l 500 auto	4 BTC @ 700 man'l 600 auto	TDC @ 700	4 BTC @ 600	4 BTC @ 700	4 BTC @ 700 man'l* 600 auto
Timing mark location	Torsional damper									

\* 350 HP - Manual #1111445 - 36° @ 5000 RPM - TDC @ 700 RPM

**CENTRIFUGAL & VACUUM**

**ADVANCE CURVES**

**TO BE  
PROVIDED**

# CLUTCHES AND TRANSMISSIONS

## CLUTCHES

Engine	Type	L6-230	L6-250	L6-230	V8-307			V8-327		V8-396	
Availability		Base	RPO L22	Base	Base			RPO L30, L73 & L79		Base & RPO L34	
Clutch for		3-Spd		M01*	3-Spd	M01*	4-Spd	3-Spd & 4-Spd	M01*	3-Spd & 4-Spd	
Type		Single dry disc					Single dry disc, centrifugal				
Clutch cover & pressure plate	Eff. plate load, lbs.	1650-1850		1900-2200	1900-2200	1700-1950	2100-2300		2450-2750		
	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)	12 coil springs (6 sets of two)		10 coil springs (5 sets of two)				
	Friction rings	OD	9.12		10.00	10.00	11.00	10.34		11.00	
		ID	6.12		6.00	6.50	6.50	6.50		6.50	
		Total area sq.in.	71.82		100.53	90.71	123.70	101.54		123.70	
Material		Woven type asbestos (c)									
Flywheel & Ring Gear	Flywheel Material	Cast iron									
	Ring gear Material	Heat treated HR steel									
	No. of teeth	153								168	
	PD Attachment	12.75								14.00	
Bearings	Release Type	Shrink fit									
	Lubrication	Single row ball									
	Pilot Type	None, prepacked									
	Lubrication	Bronze bushing									
Controls	Clutch fork	None, sintered and oil impregnated									
	Pedal mounting	Drop forged steel, pivot mounted on ball									
	Lubrication	Pendant, from brace on dash									
Clutch housing material	Crossover shaft										
		Aluminum alloy									

- \* M01 - Option for Heavy Duty Clutch
- (a) 6 outer coil springs and 3 inner coil springs equally spaced
- (b) 6 coil springs
- (c) Woven front and molded rear asbestos ring on Heavy Duty Clutch for 230 Cu.In.

## 3-SPEED AND 4-SPEED TRANSMISSIONS

Transmission Type		3-Speed				Heavy Duty 3-Speed					4-Speed				
Engine	Type	L-6 230	L-6 250	V-8 307	V-8 327	L-6 230	L-6 250	V-8 307	V-8 327	V-8 396	V-8 307	V-8 327	V-8 396	V8 327 V8 396	
Application	Availability	Base	L22	Base	L30 & L73	Base	L22	Base	L30 L73 L79	Base	Base	L30 & L73	Base	L79 & L34	
Case material		Cast iron												Alum.	
Gear Shift	Type	Remote													
	Location	Steering column							Floor						
Gears	Type	Helical													
	Material	Forged steel, hardened													
	Synchronization	All forward gears													
	Constant mesh gear	All gears													
	Sliding gears	None													
	Ratios	First	2.85		2.54	2.86	2.41		2.85	2.54	2.52	2.52	2.52	2.20	
		Second	1.68		1.50	1.72	1.59		2.02	1.80	1.88	1.88	1.64		
		Third	1.00		1.00	1.00	1.00		1.35	1.44	1.47	1.47	1.27		
Fourth								1.00	1.00	1.00	1.00	1.00			
Reverse		2.95		2.63	2.86	2.41		2.85	2.54	2.59	2.59	2.26			
Lubricant	Type	Meeting Military Specification MIL-L-2105B													
	Capacity (pts)	3					3.5					3			
Extension	Material	Cast iron													
	Oil seal	Steel encased double seal of spring loaded rubber or felt													

# TRANSMISSIONS—Cont'd.

## OVERDRIVE TRANSMISSION (RPO M10)

### GENERAL

Type ----- 3-pinion planetary drive unit  
 Description ----- Adaptable to 3-speed transmission. Overdrive drive unit with integral mainshaft replaces mainshaft and extension of 3-speed  
 Operation ----- Activation by manually operated pull type lockout switch located under instrument panel to right of steering column; when fully extended, overdrive unit is inoperative. Overdrive unit can be over-ridden by a downshift switch located at the carburetor and controlled by the accelerator pedal; over-riding achieved by tramping accelerator.  
 Lubricant  
 Type ----- Meeting Military Specification MIL-L-2105-B  
 Viscosity ----- SAE 80  
 Capacity (pts) ----- Total 3 pints  
 Gear ratios with overdrive locked in  
 Regular production and optional L-6 engines  
 First ----- 1.995  
 Second ----- 1.176  
 Third ----- 0.700  
 Output shaft RPM  
 Cut-in ----- 1440  
 Cut-out ----- 1100

## AUTOMATIC TRANSMISSION (RPO M35)

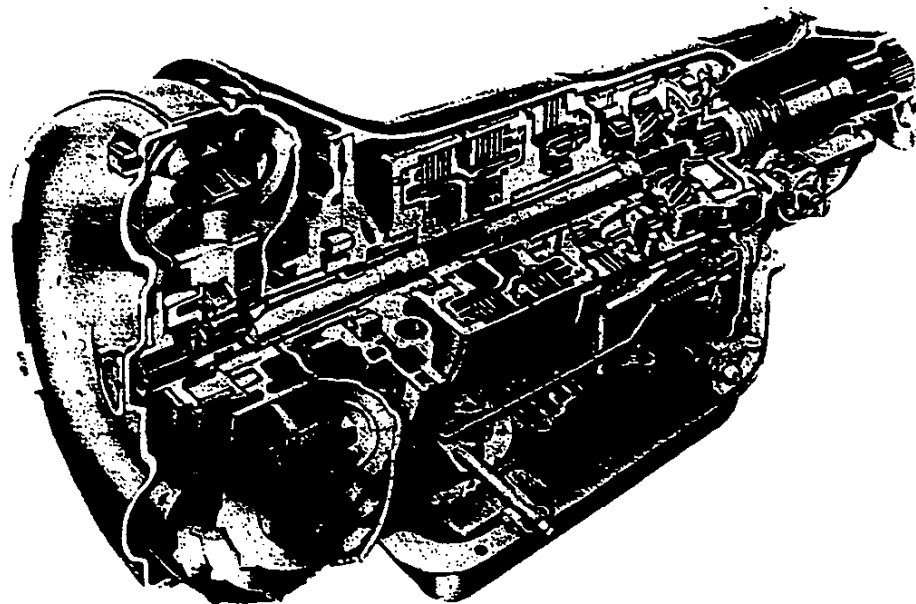
Engine	Type	L-6	V-8	L-6	V-8	V-8 396 Cu.In.		
		230 Cu.In.	307 Cu.In.	250 Cu.In.	327 Cu.In.	Standard	RPO L34	
General data	Availability	Standard		RPO L22	RPO L30&L73	Standard	RPO L34	
	Type	Automatic hydraulic torque converter with planetary gear system for low and reverse						
	Selector lever	Location	Steering column (a)					
		Operation	Actuates manual valve in hydraulic control system					
Hydraulic controls	Parking lock	Quadrant pattern	P-R-N-D-L					
		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							
Manual valve type	Spool							
Pressure regulator valve type	Spool							
Pressure @ Idle (b)	Drive	51	51	51	51			
	Low	132	122	112	132			
	Reverse	89	92	91	89			
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. Operation independent of cover and pump housing.						
	Stator	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)	1560	1530	1620	1680	1880	1860	
	Diameter (nominal)	11.0		11.75				

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

### AUTOMATIC TRANSMISSION - CONTINUED

Engine	Type	L-6 230 Cu. in.	V-8 307 Cu. in.	L-6 250 Cu. in.	V-8 327 Cu. in.	V-8 396 Cu. in.		
	Availability	Standard		RPO L22	RPO L30&L73	Standard	RPO L34	
	Type	Compound planetary						
Planetary gear set	Range	Drive	1.82 to 1			1.76 to 1		
		Low	1.82			1.76		
		Reverse	1.82			1.76		
	Low band	Three linked circular segments						
	Low band servo	Piston with release spring and inner cushion spring						
Case	Material	Aluminum (one piece)						
Output shaft RPM & vehicle speed (MPH)	N/V factor	41.1		41.1		40.5		
		41.1		41.1		43.6		
	Upshift	Closed throttle	650(16)	650(16)	650(16)	658(16)	672(17)	675(16)
		Throttle at detent	1970(48)	2075(51)	1970(48)	2340(57)	2475(61)	2730(63)
	Downshift	Full throttle	2283(56)	2397(58)	2283(56)	2735(67)	2955(73)	3255(75)
		Closed throttle	605(15)	607(15)	605(14)	610(17)	627(15)	632(15)
		Throttle at detent	1440(35)	1333(33)	1440(35)	1505(37)	797(20)	852(20)
		Full throttle	2125(52)	2260(55)	2135(52)	2535(63)	2765(68)	3045(70)
High clutch	Type	Multi-disk						
	Drive plates	Description	Waved steel with bonded organic facings					
		Number	3	4	3		4	
	Driven plates	Description	Flat steel					
Number		4	5	4		5		
Reverse clutch	Type	Multi-disk						
	Drive plates	Description	Flat steel with bonded organic facings					
		Number	4	5	4	5		6
	Reaction plates	Description	Flat steel					
Number		4	5	4	5		6	
Torque Multi- plication	Maximum overall ratio	3.82			3.70			
	Low and reverse	3.82 to 1.82			3.70 to 1.76			
Lubricant	Type	A suffix A						
	Capacity (pts)	Dry	17			19		
		Refill	6			6.5		
Governor	Type	Centrifugal						
	Operation	Regulates pump oil pressure to automatic shift control valve body						
	Drive	Mounted on output shaft						
Oil pump	Location	In extension						
	Type	Internal-external gear						
	Number	One; front						
	Function	To supply pressure						
	Drive	Converter pump						

## TRANSMISSIONS —Cont'd.



**TURBO HYDRA-MATIC TRANSMISSION (RPO M40)**

(Available with 396 Cu.In. Engines only)

### GENERAL DATA

Type ----- Three element automatic hydraulic torque converter with a compound planetary gear set that produces three forward speeds and reverse

Selector Lever  
Location ----- Steering column; floor mount optional on models using bucket seats

Operation ----- Actuates automatic controls by a hydraulic system from a pressurized gear type pump

Quadrant Pattern -- Steering column: P-R-N-D-L2-L1  
External Control Connections Floor mount: P-R-N-3-2-1

Manual Linkage ----- Selects desired operating range by means of selector lever

Vacuum Modulator ----- Senses change in the torque input to the transmission and assures smooth shifts

Detent Solenoid ----- Actuated by electric switch or the carburetor causing the transmission to downshift under full throttle conditions at car speeds below 70 miles per hour

### Parking Lock

Type ----- Locking pawl  
Operation ----- Applied by selector lever through manual linkage

Method of Cooling ----- Water

### TORQUE CONVERTER

Driving Member (Pump) ----- Multivane type, sheet metal blade, spot welded to steel pump housing that is an integral part of the converter housing

Driven Member (Turbine) ----- Steel axial flowblades assembled between inner and outer steel shells

Stator Assembly ----- Aluminum multivane type blades mounted on a one way roller clutch

Stall Ratio ----- 2.04  
Stall Speed (RPM) ----- 2100  
Diameter (Nominal) ----- 12.83

### CLUTCHES

Type ----- Three, multiple disk  
Material -----  
Drive plates ----- Waved steel  
with bonded organic facings  
Driven plates ----- Flat steel  
Forward clutch ----- Five each  
drive and driven plates  
Direct clutch ----- Five each  
drive and driven plates  
Intermediate clutch ----- Three each  
drive and driven plates  
Release spring ----- Radial row steel coil

### PLANETARY GEAR UNIT

Front ----- Reaction carrier assy ----- Four  
steel pinion gears  
Rear ----- Output carrier assy ----- Four  
steel pinion gears  
Gear Ratios -----  
D(Drive) ----- 2.48:1, 1.48:1, 1.00:1  
L2(Low two) ----- 2.48:1, 1.48:1  
L1(Low one) ----- 2.48:1  
R(Reverse) ----- 2.08:1  
Front Band  
Type ----- One, circular steel with organic lining  
Function ----- Provides  
engine braking in 2nd gear with  
selector lever in L2 and L1 range  
Rear Band  
Type ----- Double wrap  
circular steel with organic lining  
Function ----- Provides engine braking  
Lo range 1st gear; also in reverse  
range the band holds the reaction  
carrier to apply reverse gear ratio  
Servo units ----- Piston with  
release spring and inner cushion  
spring that activates the bands

### HYDRAULIC SYSTEM

Oil pressure pump ----- Supplies  
hydraulic pressure by gear type  
pump which is engine driven  
Pump pressure (450 RPM input @ 25 in. Hg vacuum)  
Park ----- 70 PSI  
Neutral ----- 70 PSI  
Drive (First, second, third) ----- 70 PSI  
L2 (First, second) ----- 150 PSI  
L1 ----- 150 PSI  
Reverse ----- 107.5 PSI  
Valves  
Type ----- Steel spool  
Manual ----- Establishes range  
at transmission operation  
Pressure regulator ----- Controls  
main line pressure  
Shift (1-2) ----- Controls oil pressure  
for trans. shift from 1-2 or 2-1  
Shift (2-3) ----- Controls oil pressure  
for trans. shift from 2-3 or 3-2  
Modulator ----- Regulates line pressure  
with modulator oil pressure that  
varies with torque to transmission  
Accumulator ----- To obtain greater flexibility  
in attaining desired shift curve  
for various engine requirements  
Governor  
Type ----- Cross-axis centrifugal  
Operation ----- Regulates a pressure  
proportional to car speed which acts upon the  
(1-2)(2-3) shift valves and modulator valve

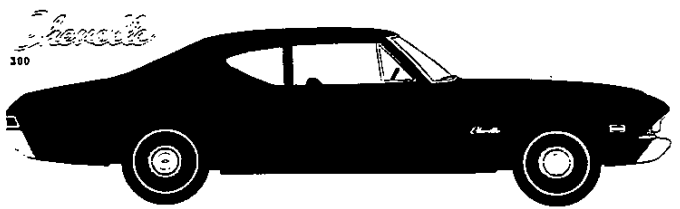
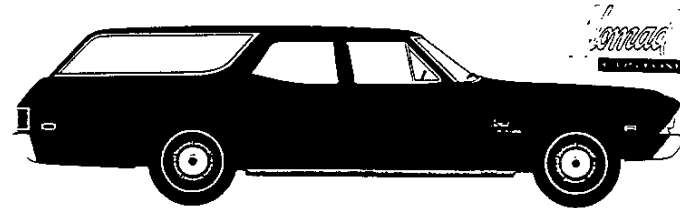
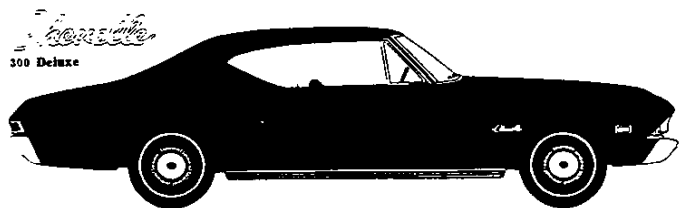
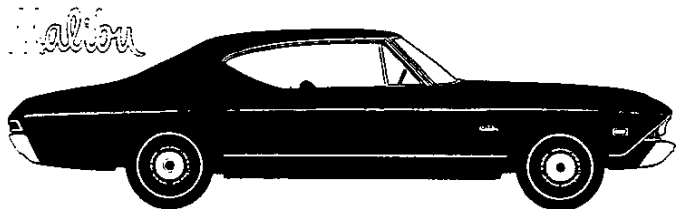
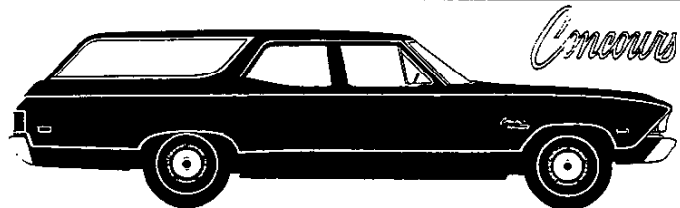
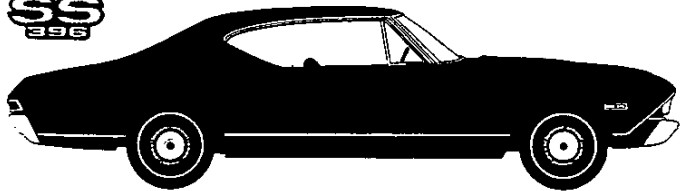
### LUBRICANT

Type ----- A suffix A  
Capacity ----- 22 pts  
Refill ----- 8 pts  
Oil cooler ----- Integral with  
radiator assembly and connected to  
transmission by inlet and outlet pipes

### TORQUE MULTIPLICATION

Drive (maximum) ----- 5.06:1 to 1.00  
Low 2 ----- 5.06:1 to 1.48  
Low 1 ----- 5.06:1 to 2.48  
Reverse ----- 4.24:1 to 2.08

**SS**  
396







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# INTERIOR FEATURES & APPOINTMENTS (Continued)

	SS 396	Concours Estate Wagon	Concours Sedan (RPO ZJ6)	Malibu	Nomad Custom Wagon	Chevelle 300 Deluxe	Nomad Wagon	Chevelle 300
<b>HEADLINING, FLOOR COVERING &amp; INTERIOR FEATURES</b>								
Embossed vinyl headlining (special pattern and perforated on Concours)	•	•	•	•	•	•	•	•
Padded sun visors (with center support on Malibu, SS 396 and Concours)	•	•	•	•	•	•	•	•
Color-keyed deep-twist floor carpeting	•	•	•	•				
Color-keyed vinyl-coated rubber floor covering					•	•		
Black rubber floor covering							•	•
Day-night rearview mirror with vinyl edge	•	•	•	•	•	•	•	•
Padded windshield pillars	•	•	•	•	•	•	•	•
Color-keyed coat hooks (except Convertible)	•	•	•	•	•	•	•	•
Center console (Sport Coupe and Convertible)	EC			EC				
<b>LUGGAGE &amp; CARGO COMPARTMENT</b>								
Patterned rubber luggage compartment mat	•		•	•				
Spatter-painted luggage compartment	•		•	•		•		•
Color-keyed vinyl-coated metal seat back and load surfaces		•		•	•			
Black rubber cargo floor mat							•	
Color-keyed textured vinyl cargo area sidewalls		•		•				
Vinyl-coated textured metal cargo area sidewalls					•		•	
Concealed stowage compartment		•		•	•			
<b>LIGHTS, SWITCHES &amp; POWER EQUIPMENT</b>								
Four-way hazard warning flasher switch	•	•	•	•	•	•	•	•
Instrument light switch (in headlight switch)	•	•	•	•	•	•	•	•
Automatic interior light switches in front door	•	•	•	•	•	•		
Center dome light (except Convertibles)	•	•	•	•	•	•	•	•
Dual instrument panel courtesy lights (std. on Convertibles)	EC	EC	EC	EC	EC	EC	EC	EC
Power-operated tailgate window		EC		EC	EC		EC	
Power-operated folding top (Convertible only)	EC			EC				

EC—extra cost

## OPTIONAL\* INTERIOR TRIM & APPOINTMENTS

**STRATO-BUCKET FRONT SEATS (RPO A51)**—For SS 396 and Malibu Sport Coupe and Convertible models.

**CENTER CONSOLE (RPO D55)**—Available on SS 396 and Malibu Sport Coupe and Convertible models when Strato-bucket seats are ordered. Not available on Malibu with standard 3-speed. Includes rear seat courtesy light.

**DELUXE STEERING WHEEL (RPO N30)**—Steering wheel with horn tabs available for Nomad, Nomad Custom, Chevelle 300 and 300 Deluxe models.

**SPORTS-STYLED STEERING WHEEL (RPO N34)**—Special steering wheel with horn button and elegant look of walnut plastic rim.

**ALL-VINYL SEAT TRIM**—Available for Malibu Sedans and Sport Coupe, also 300 Deluxe models.

**SPECIAL INSTRUMENTATION (RPO U14)**—Includes temperature, ammeter and oil pressure gauges plus tachometer and clock. Available on SS 396 and Malibu Sport Coupe and Convertible models.

**STRATO-EASE HEAD RESTRAINTS**—Available with Strato-bucket front seat (RPO A81) or standard front seat (RPO A82).

\*Optional at extra cost

See Options & Accessories section for other interior features available at extra cost.

# 1968 Chevelle Specifications

	3000		LONGCOURT		ALISON		HEVELLE 10 DELUXE		HOLIDAY HOLIDAY		CHEVELLE 360		HOLIDAY		
EXTERIOR DIMENSIONS	Sport Coupe	Conv.	Estate Wagon (2-Seat)	Sport Sedan (RPO ZJ6)	Sport Sedan	Sport Coupe	Conv.	4-Door Sedan	Station Wagon (2-Seat)	Sport Coupe	Coupe	4-Door Sedan	Station Wagon (2-Seat)	Coupe	Station Wagon (2-Seat)
Wheelbase	112.0	112.0	116.0	116.0	116.0	112.0	112.0	116.0	116.0	112.0	112.0	116.0	116.0	112.0	116.0
Length (overall)	197.1	197.1	207.1	201.1	201.1	197.1	197.1	201.1	207.1	197.1	197.1	201.1	207.1	197.1	207.1
Width (overall)	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
Height (loaded)	52.7	53.2	55.2	53.3	53.3	52.7	53.2	53.3	55.2	52.7	52.7	53.3	55.2	52.7	55.2
Front Tread	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
Rear Tread	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0	59.0
Road Clearance (minimum)	4.8	4.8	6.4	4.8	4.8	4.8	4.8	4.8	6.4	4.8	4.8	4.8	6.4	4.8	6.4
<b>INTERIOR ROOMINESS</b>															
Head Room—Front	37.4	38.3	38.1	38.2	38.2	37.4	38.3	38.2	38.1	37.4	37.8	38.2	38.1	37.8	38.1
Head Room—Rear	36.4	36.9	38.3	37.1	37.1	36.4	36.9	37.1	38.3	36.4	36.4	37.1	38.3	36.4	38.3
Leg Room—Front	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.7	42.4	42.7	42.7	42.4	42.7
Leg Room—Rear	32.2	32.2	34.8	34.7	34.7	32.2	32.2	34.7	34.8	32.2	32.2	34.7	34.8	32.2	34.8
Hip Room—Front	59.6	59.6	59.7	59.6	59.6	59.6	59.6	59.6	59.7	59.6	59.8	59.6	59.7	59.8	59.7
Hip Room—Rear	58.3	49.5	59.4	59.6	59.6	58.3	49.5	59.6	59.4	58.3	58.5	59.6	59.4	58.5	59.4
Shoulder Room—Front	58.1	58.1	58.3	58.3	58.3	58.1	58.1	58.1	58.3	58.1	58.1	58.1	58.3	58.1	58.3
Shoulder Room—Rear	56.8	47.6	57.4	57.5	57.5	56.8	47.6	57.5	57.4	56.8	56.8	57.5	57.4	56.8	57.4
Front Entrance Height	29.5	29.5	29.7	30.2	30.2	29.5	29.5	29.7	29.7	29.5	29.3	29.7	29.7	29.3	29.7
Rear Entrance Height	—	—	29.7	29.8	29.8	—	—	29.4	29.7	—	—	29.4	29.7	—	29.7
<b>LUGGAGE COMPARTMENT</b>															
Maximum Opening Width	48.5	48.5	—	48.5	48.5	48.5	48.5	48.5	—	48.5	48.5	48.5	—	48.5	—
Loading Height	NA	NA	—	NA	NA	NA	NA	NA	—	NA	NA	NA	—	NA	—
Interior Length (max.)	49.0	49.0	—	49.0	49.0	49.0	49.0	49.0	—	49.0	49.0	49.0	—	49.0	—
Interior Width (max.)	72.0	72.0	—	72.0	72.0	72.0	72.0	72.0	—	72.0	72.0	72.0	—	72.0	—
Interior Height (max.)	18.0	18.0	—	18.0	18.0	18.0	18.0	18.0	—	18.0	18.0	18.0	—	18.0	—
Total Volume (cu. ft.)	NA	NA	—	NA	NA	NA	NA	NA	—	NA	NA	NA	—	NA	—
Usable Luggage Space (cu. ft.)	NA	11.0	—	12.6	12.6	NA	11.0	12.8	—	NA	NA	12.8	—	NA	—

NA—Not available.

# 1968 Chevelle Specifications (continued)

CARGO COMPARTMENT	SS 396		CONCOURS		MALIBU			CHEVELLE 300 DELUXE				ROMAD CUSTOM	CHEVELLE 300	ROMAD	
	Sport Coupe	Conv.	Estate Wagon (2-Seat)	Sport Sedan (RPD Z16)	Sport Sedan	Sport Coupe	Conv.	4-Door Sedan	Station Wagon (2-Seat)	Sport Coupe	Coupe	4-Door Sedan	Station Wagon (2-Seat)	Coupe	Station Wagon (2-Seat)
Floor Length—Front Seat to Tailgate	—	—	90.9*	—	—	—	—	—	90.9*	—	—	—	90.9*	—	90.9*
Floor Length—2nd Seat to Tailgate	—	—	59.1	—	—	—	—	—	59.1	—	—	—	59.1	—	59.1
Maximum Load Floor Width	—	—	59.5	—	—	—	—	—	59.5	—	—	—	59.5	—	59.5
Width between Wheelhouses	—	—	44.5	—	—	—	—	—	44.5	—	—	—	44.5	—	44.5
Height—Floor to Roof (max.)	—	—	31.6	—	—	—	—	—	31.6	—	—	—	31.6	—	31.6
Tailgate Loading Height	—	—	NA	—	—	—	—	—	NA	—	—	—	NA	—	NA
Tailgate Opening Height	—	—	28.6	—	—	—	—	—	28.6	—	—	—	28.6	—	28.6
Tailgate Opening Width at Floor	—	—	50.1	—	—	—	—	—	50.1	—	—	—	50.1	—	50.1
Tailgate Opening Width at Belt	—	—	49.5	—	—	—	—	—	49.5	—	—	—	49.5	—	49.5
Total Cargo Volume (cu. ft.)	—	—	94.0*	—	—	—	—	—	94.0*	—	—	—	94.0*	—	84.0

## GLASS AREA

Windshield Glass Area (sq. in.)	1208.7	1211.8	1249.6	1249.6	1249.6	1208.7	1211.8	1249.6	1249.6	1208.7	1208.7	1249.6	1249.6	1208.7	1249.6
Rear Window Glass Area (sq. in.)	1059.4	539.7	757.0	1032.2	1032.2	1059.4	539.7	1032.2	757.0	1059.4	1059.4	1032.2	757.0	1059.4	757.0
Total Glass Area (sq. in.)	3419.2	2862.1	4426.5	3585.4	3585.4	3419.2	2862.1	3478.8	4426.5	3419.2	3384.9	3478.8	4426.5	3384.9	4426.5

## TIRE SIZE & STEERING SPECIFICATIONS (For additional information, see Tires in Feature Details section.)

Standard Tire Size	F70 x 14	7.75x14	7.35x14	7.35 x 14	7.75x14	7.35 x 14	7.75x14	7.35x14	7.75x14	7.35x14	7.75x14	7.35x14	7.75x14
Turning Circle—Curb-to-Curb (ft.)	39.4	40.6	40.6	39.4	40.6	39.4	40.6	40.6	39.4	40.6	40.6	39.4	40.6
Turning Circle—Wall-to-Wall (ft.)	44.7	45.1	45.1	44.7	45.1	44.7	45.1	45.1	44.7	45.1	45.1	44.7	45.1
Steering Ratio—Std. (overall)	28.0:1	28.0:1		28.0:1		28.0:1		28.0:1	28.0:1	28.0:1		28.0:1	28.0:1
Steering Ratio—Power (overall)	20.4:1	20.4:1		20.4:1		20.4:1		20.4:1	20.4:1	20.4:1		20.4:1	20.4:1

## FUEL CAPACITY & WEIGHT

Rated Fuel Tank Capacity (gallons)	20	20		20		20		20	20	20	20	20	20		
Curb Weight—Six (lbs.)	—	—	3620	•	3340	3235	3280	3280	3605	3210	3195	3260	3585	3180	3535
Curb Weight—V8 (lbs.)	3675	3735	3755	•	3475	3365	3410	3415	3740	3345	3330	3395	3720	3315	3670
Shipping Weight—Six (lbs.)	—	—	3450	•	3185	3070	3135	3125	3440	3050	3035	3105	3415	3020	3370
Shipping Weight—V8 (lbs.)	3510	3570	3580	•	3315	3205	3260	3255	3575	3185	3170	3240	3545	3155	3500

\*Tailgate open—117.0"

• See Malibu Sport Sedan

♦ Includes 10.0 cu. ft. concealed stowage compartment

# 1968 CHEVELLE POWER TEAMS

**ENGINES  
TRANSMISSIONS  
AXLE RATIOS**

ENGINE	TRANSMISSION	REAR AXLE RATIO MODEL APPLICATION	REAR AXLE RATIO							
			Without Air Conditioning				With Air Conditioning			
			Standard	Economy†	Performance‡	Special†	Standard	Economy†	Performance‡	Special†
<b>140-HP TURBO-THRIFT 230</b> 230-CU.-IN. SIX	3-Speed (2.85:1 Low)	All models	3.36:1	3.08:1	3.55:1	3.70:1	3.36:1	3.55:1	3.70:1	
	Special 3-Speed (2.86:1 Low)									
	Overdrive	All models	3.70:1				3.70:1			
	NOT AVAILABLE ON SS 396	Powerglide	All models except Wagons	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1
Wagons			3.36:1	3.08:1	3.55:1	3.70:1	3.36:1	3.55:1	3.70:1	
<b>155-HP TURBO-THRIFT 250</b> 250-CU.-IN. SIX	3-Speed (2.85:1 Low) and Special 3-Speed (2.86:1 Low)	All models except Wagons	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1	
	Overdrive									All models
	NOT AVAILABLE ON SS 396	Powerglide	All models except Wagons	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1
			Wagons	3.36:1	3.08:1	3.55:1	3.70:1	3.36:1	3.55:1	3.70:1
<b>200-HP TURBO-FIRE 307</b> 307-CU.-IN. V8	3-Speed (2.85:1 Low)	All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1	
	Special 3-Speed (2.86:1 Low)									
	NOT AVAILABLE ON SS 396	Powerglide	All models	3.70:1				3.70:1		
			All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1
<b>250-HP TURBO-FIRE 327</b> 327-CU.-IN. V8	3-Speed (2.54:1 Low)	All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1	
	Special 3-Speed (2.41:1 Low)									
	NOT AVAILABLE ON SS 396	Powerglide	All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1			
			All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1
<b>275-HP TURBO-FIRE 327</b> 327-CU.-IN. V8	3-Speed (2.54:1 Low)	All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1	
	Special 3-Speed (2.41:1 Low)									
	NOT AVAILABLE ON SS 396	Powerglide	All models	3.07:1	2.73:1	3.31:1	3.55:1 3.73:1	3.31:1	3.55:1	3.73:1
			All models	3.08:1	2.73:1	3.36:1	3.55:1 3.70:1	3.36:1	3.55:1	3.70:1
<b>325-HP TURBO-FIRE 327</b> 327-CU.-IN. V8	Special 3-Speed (2.41:1 Low)	All models	3.31:1	3.07:1	3.55:1	3.73:1	3.31:1	3.55:1	3.73:1	
	4-Speed (2.52:1 Low)	All models	3.31:1	3.07:1	3.55:1	*	3.31:1	3.55:1	3.73:1	
	4-Speed (2.20:1 Low)	All models	3.31:1	3.07:1	3.55:1		3.31:1	3.55:1	3.73:1	
<b>325-HP TURBO-JET 396</b> 396-CU.-IN. V8 SS 396 ONLY	Special 3-Speed (2.41:1 Low)	All models	3.31:1	3.07:1	3.55:1	3.73:1 4.10:1	3.07:1	3.55:1 3.73:1 4.10:1	3.07:1	
	4-Speed (2.52:1 Low)									
	NOT AVAILABLE ON SS 396	Powerglide	All models	3.07:1	2.73:1	3.31:1	3.55:1 3.73:1 4.10:1	3.07:1		
			All models	2.73:1	2.56:1	3.07:1	3.31:1	3.07:1		
<b>350-HP TURBO-JET 396</b> 396-CU.-IN. V8 SS 396 ONLY	Special 3-Speed (2.41:1 Low)	All models	3.55:1	3.31:1	3.73:1	4.10:1	3.07:1	3.55:1 3.73:1 4.10:1	3.07:1	
	4-Speed (2.52:1 Low)									
	NOT AVAILABLE ON SS 396	Powerglide	All models	3.55:1	3.31:1	3.73:1	**	3.07:1		
			All models	3.31:1	3.07:1	3.55:1	3.73:1 4.10:1	3.07:1		
Turbo Hydra-Matic	All models	3.07:1	2.73:1	3.31:1		3.07:1				

Note: Positraction rear axle available in all axle ratios—required with 4.10:1, 4.56:1 and 4.88:1 ratios. †Optional. \*Choice of 3.73:1, 4.10:1, 4.56:1 or 4.88:1 special ratios. \*\*Choice of 3.07:1, 4.10:1, 4.56:1 or 4.88:1 special ratios.

TRANSMISSION	ENGINES	TRANSMISSION GEAR RATIOS (:1)					SHIFT SELECTOR LOCATIONS		
		1	2	3	4	R	Column	Floor	Console*
3-SPEED FULLY SYNCHRONIZED (STANDARD)	140-hp 6 155-hp 6 200-hp V8	2.85	1.68	1.00		2.95	•		
	250-hp V8 275-hp V8	2.54	1.50	1.00		2.63			
OVERDRIVE† (RPO M10)	140-hp 6 155-hp 6 200-hp V8	2.00	1.18	0.70		2.95	•		
		1.78	1.05	0.70		2.63			
SPECIAL 3-SPEED FULLY SYNCHRONIZED (RPO M13)	140-hp 6 155-hp 6 200-hp V8	2.86	1.72	1.00		2.86		•	•
	Other V8s	2.41	1.59	1.00		2.41			
4-SPEED FULLY SYNCHRONIZED (RPO M20)	200-hp V8	2.85	2.02	1.35	1.00	2.85			
	250-hp V8 275-hp V8	2.54	1.80	1.44	1.00	2.54		•	•
4-SPEED FULLY SYNCHRONIZED (RPO M21)	325-hp V8 350-hp V8	2.52	1.88	1.46	1.00	2.59			
		2.20	1.64	1.27	1.00	2.26		•	•
POWERGLIDE (RPO M35)	140-hp 6 155-hp 6 200-hp V8	Drive (maximum)—3.82:1 to 1:1 Low and reverse—3.82:1 to 1.82:1						•	
	Optional V8s	Drive (maximum)—3.70:1 to 1:1 Low and reverse—3.70:1 to 1.76:1							•
TURBO HYDRA-MATIC (RPO M40)	325-hp V8 350-hp V8	Drive (maximum)—5.06:1 to 1:1 Low 2— 5.06:1 to 1.48:1 Low 1— 5.06:1 to 2.48:1 Reverse 4.24:1 to 2.08:1						•	•

\*Optional at extra cost †Engaged ratios shown, ratios with Overdrive disengaged same as standard 3-Speed

### NUZZLES for Chevelle 3- and 4-Speed Transmission Power Teams

Type		140-hp Turbo-Thrift 230 6-cyl.	155-hp Turbo-Thrift 250 6-cyl.	200-hp Turbo-Fire 307 V8	250, 275- & 325-hp Turbo-Fire 327 V8's	325- & 350-hp Turbo-Jet 396 V8's
		3-Speed	3-Speed	3-Speed 4-Speed	3- & 4-Speed	3- & 4-Speed
Spring Effective Plate Load (lbs.)	Standard	1650-1850		1750-2000	2100-2300	2450-2750
	Heavy-Duty	1900-2200	—	1700-1950	2450-2750	—
Disc Facing Material	Standard	Diaphragm spring with single dry disc		Semi-centrifugal bent-finger design diaphragm spring with single dry disc		
	Heavy-Duty	Woven asbestos		Premium grade woven asbestos		
Disc Facing Outside Diameter	Standard	9.12"		10.00"	10.40"	11.00"
	Heavy-Duty	10.00"	—	11.00"		—
Disc Facing Total Area (sq. in.)	Standard	71.82		90.71	103.53	123.70
	Heavy-Duty	100.53	—	123.70		—

\*Woven front and molded rear facing

### EQUIPMENT INCLUDED WITH OPTIONAL\* V8 ENGINES

Important equipment is included with 327- and 396-cu.-in. V8 engines, supplementing or replacing equipment included with the standard 200-hp 307-cu.-in. V8 engine. Other specialized equipment is also available (see Options & Accessories Section).

	250-hp 327	275-hp 327	325-hp 327	325-hp 396	350-hp 396
Heavier duty front and rear springs		•	•	•	•
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.)			• (a)	•	•
Heavier duty clutch		•	•	•	•
7.75 x 14 tires		• (b)	• (b)	•	•
F70 x 14 red stripe tires with 14" x 6" wheels		•	•	•	•
61-ampere-hour battery	•	•	•	•	•
High-flow air cleaner			•	•	•
Higher performance starting motor	•	•	•	•	•
Special chrome accents on engine♦			•	•	•

(a) With resonators except on Station Wagons. (b) 7.75 x 14 tires standard on Malibu Sport Sedan and Convertible models.

\*Optional at extra cost

†With 4-speed transmission only

♦Chrome-finish air cleaner, valve rocker covers and oil filler cap

# 1968 CHEVELLE ENGINE SPECIFICATIONS

GENERAL SPECIFICATIONS	130-HP Turbo-Thrift 200	155-HP Turbo-Thrift 200	200-HP Turbo-Thrift 200	250-HP Turbo-Thrift 200	275-HP Turbo-Thrift 200	325-HP Turbo-Thrift 200	350-HP Turbo-Thrift 200	350-HP Turbo-Thrift 200
Displacement	230 cu. in.	250 cu. in.	307 cu. in.			327 cu. in.		396 cu. in.
Bore and Stroke	3.875"x3.25"	3.875"x3.53"	3.875"x3.25"			4.00"x3.25"		4.094"x3.76"
HP @ RPM	140 @ 4400	155 @ 4200	200 @ 4600	250 @ 4800	275 @ 4800	325 @ 5600	325 @ 4800	350 @ 5200
Torque @ RPM (lbs. ft.)	220 @ 1600	235 @ 1600	300 @ 2400	335 @ 3200	355 @ 3200	355 @ 3600	410 @ 3200	415 @ 3400
Compression ratio	8.5:1		9.00:1	8.75:1	10.0:1	11.0:1	10.25:1	
Carburetion	Single-barrel		2-barrel				4-barrel	
Fuel requirement	Regular		Regular*		Premium	Premium or Special Premium		
Camshaft type	Economy-Contoured		General Performance		High Performance		General Performance	High Performance
Valve lifters	Hydraulic							
Exhaust	Single					Dual		
BASIC DESIGN								
Engine type	6-cylinder—Valve-in-head				V8—Valve-in-head			
Exhaust emission control	Air Injection Reactor System (Controlled Combustion System with automatic transmissions except on 350-hp 396-cu.-in. V8)							
Cylinder block	Cast alloy iron					Cast alloy iron**		
Cylinder heads	Cast alloy iron with precision-cast wedge-type combustion chambers						Cast alloy iron***	
Crankshaft	Cast nodular iron†				Forged alloy steel	Cast nodular iron	Forged alloy steel	
Main bearings	7—Steel-backed replaceable insert type			5—steel-backed replaceable insert type‡				
Pistons	Cast aluminum alloy				Impact-extruded alum. alloy	Cast aluminum alloy		
Top	Chrome plated				Molybdenum-inlay			
Piston Rings	Second	Wear-resistant coated				Chrome plated	Wear-resistant coated	Chrome plated
Oil control	Three-piece (two rails and one spacer-expander)							
Connecting rods	Forged alloy steel							
Flywheel	Machined cast alloy iron with manual transmissions, pressed steel with automatic transmissions							
FUEL SYSTEM								
Intake manifold	Cast alloy iron#				Cast aluminum#	Cast alloy iron#		
Carburetor type	Single-barrel		2-barrel		4-barrel			
Choke	Automatic							
Air Cleaner	Oil-wetted paper element							
Fuel pump	Camshaft-driven mechanical pulsator-type							
Fuel filters	Dual filtration system—paper filter in carburetor, fine-mesh fuel strainer in tank							

\*Regular grade fuel recommended except in areas where octane ratings of regular gasolines are below minimum engine requirements.  
 \*\*Extra-thick bulkheads above each bearing support for greater strength and more rigid crankshaft support.  
 \*\*\*With alternately spaced inlet and exhaust valve ports and precision-formed modified-wedge combustion chambers.

†Fully counterweighted on 155-hp six.  
 ‡Special wide-base main bearing caps on 396-cu.-in. V8s.  
 §Sizes—3-port rectangular section; V8s—8-port double deck.

# 1968 CHEVELLE ENGINE SPECIFICATIONS

VALVE SYSTEM	140-HP Turbo-Thrift 230	155-HP Turbo-Thrift 250	200-HP Turbo-Fire 307	250-HP Turbo-Fire 327	275-HP Turbo-Fire 327	325-HP Turbo-Fire 327	325-HP Turbo-Jet 396	350-HP Turbo-Jet 396
Type	Valve-in-head with independent operating mechanism for each valve.							
Valve guides seats	Machined in cylinder heads (cast alloy iron valve guide inserts on 396-cu.-in. V8s)							
Inlet valves	Alloy steel						Alloy steel with aluminized face and head	
Exhaust valves	High alloy steel			High alloy steel with aluminized face			High alloy steel with aluminized face and head	
Rocker arms	Pressed steel with ball and socket mounting							
Push rods	Tubular steel with hardened ends (hardened steel inserts on 325-hp 327-cu.-in. V8 and 396-cu.-in. V8s)							
Camshaft material	Wear-resistant-coated cast alloy iron							
Camshaft bearings	4—steel-backed babbitt				5—steel-backed babbitt			
Camshaft drive	Gear-driven from crankshaft				Chain-driven from crankshaft			
<b>EXHAUST SYSTEM</b>								
Type	Single 2.0" system			Single 2.5" system*		Dual 2.5" system		
Exhaust manifolds	Cast alloy iron 4-port design: sixes—center downtake; V8s—rear downtake (tuned 4-port manifolds on 396-cu.-in. V8s)							
Muffler design and construction	Oval reverse-flow type, rolled lock seam construction							
	(A)				(A) (B)			
Resonators	None							
<b>ELECTRICAL SYSTEM</b>								
Battery	12-volt, 45-ampere-hour energizer type				12-volt, 61-ampere-hour energizer type			
Generator	37-ampere Delcotron diode-rectifying type							
Starter	Positive-engagement type				Positive-engagement high-torque type			
Distributor	Single-breaker type with combination centrifugal and vacuum advance							
Ignition coil	12-volt, hermetically sealed							
Ignition wiring	Non-metallic high-tension cable, neoprene insulated							
Spark plugs	AC 46 N		AC 45 S	AC 44 S	AC 44		AC 43 N	
<b>COOLING SYSTEM</b>								
Type	Pressurized liquid system with full-length water jackets surrounding cylinder barrels							
Radiator	Cross-flow type with 15-lb. pressure cap							
Radiator frontal area	353 sq. in.				480 sq. in.			
Water pump	Centrifugal type with sealed double-row bearing							
Water pump capacity	60 gal./min.		54 gal./min.		57 gal./min.		82 gal./min.	
Thermostat	Pellet type							
Fan	4-blade, 17.62" diameter							
Water pump/fan drive	Single-belt drive from crankshaft pulley							
<b>LUBRICATION SYSTEM</b>								
Type	Controlled full-pressure system							
Oil filter	Full-flow throwaway canister type							
Oil pump	Gear-type with fixed intake							
Oil pressure (normal)	30-45 p.s.i. @ 1500 r.p.m.				50-75 p.s.i. @ 2000 r.p.m.			
Refill capacity (qts.)	4 quarts (5 with filter replacement)							
Crankcase ventilation	Closed-positive type							

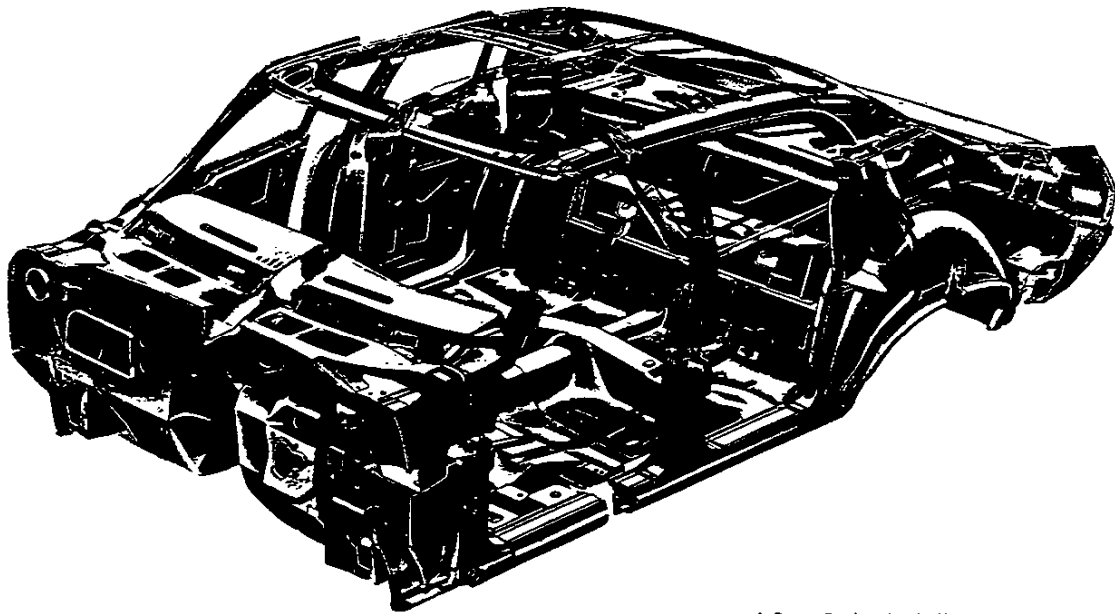
\*Dual 2.5" system optional at extra cost.

(A) Extended durability features include: aluminized heads and outer cover, asbestos-wrapped zinc-coated body, zinc-coated interior baffles.

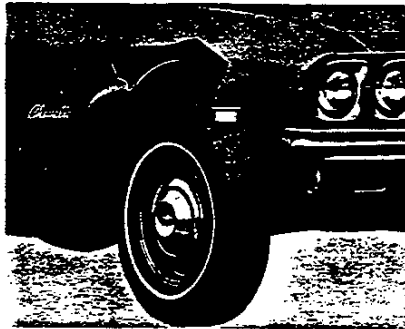
(B) Right side muffler body, heads and interior baffles stainless steel for greater durability.



# CHEVELLE BODY FEATURES



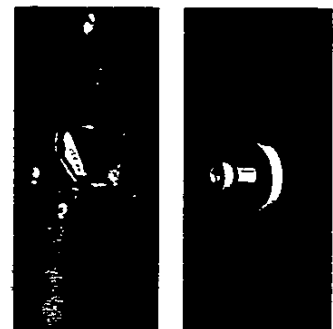
4-Door Sedan body illustrated . . . other models basically similar except for roof or other specific features.



Protective inner panels at both front and rear wheel openings help prevent corrosion damage to front fender and rear quarter sheet metal. Front fender panel illustrated.

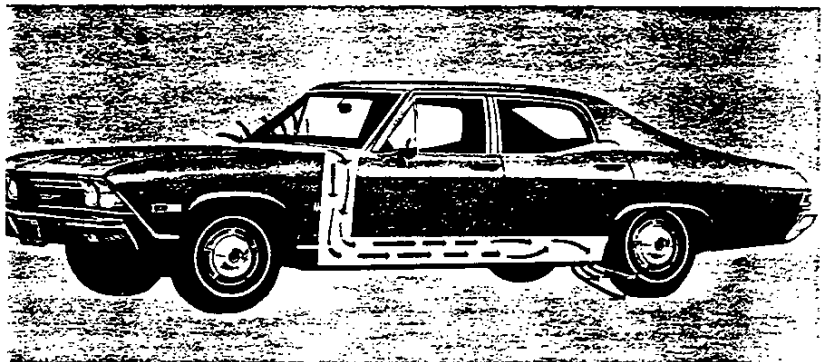
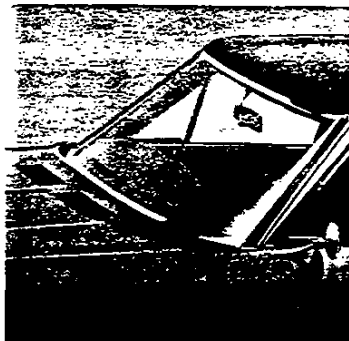


Roomy luggage compartment with convenient spare tire location. Spare tire concealed in right rear quarter in Wagons.



Easy-operating fork-type door latch.

Hide-A-Way windshield wipers standard on SS 396, Concours and Malibu models—optional on others. Articulated left blade sweeps closer to windshield pillar on driver's side for better visibility.



Flush-and-dry rocker panels utilize air and water entering the cowl air intake to improve corrosion resistance. Water entering the intake flushes the rocker panels while a constant flow of air removes moisture. Special outlet drains at the rear of the rocker panels allow the free flow of air and water.

## Body Structure

All-welded heavy-gauge steel body with:

- Rugged box-section design roof rails, windshield and rear window headers, door and roof pillars.
- Heavy-gauge steel roof panel with single flanged-channel reinforcing bow on Sedans and Coupes . . . three on Wagons.
- High-strength double-walled cowl unit-welded to instrument panel, floor, and dash panel.
- Deeply ribbed and contoured floor panel with underbody reinforcing crossmember.
- Rugged heavy-gauge steel box-section body sills with corrosion-resistant outer panel.
- Flush-and-dry body rocker panels.
- Double-panel doors, hood, deck lid, and tailgate.
- Counterbalanced hood, deck lid, and tailgate.
- Front and rear inner fender panel construction for improved corrosion protection.
- Full-length front fender supports.
- Structural components and body panels protected from corrosion by primer coatings, zinc coatings, and anti-rust compounds. Selected structural members heavily zinc-coated. Selected under-surfaces protected by spray-on undercoating.

## Body Mounting

- Double-cushioned rubber body mounts, plus strategically positioned rubber insulating cushions (except Convertible) help isolate the body from road noise and vibration. Convertible bodies attached to frame at twelve locations; others at eight. Up to four rubber cushions—depending on model—help to

further isolate the frame for a smoother, quieter ride. Front sheet metal isolated by rubber cushions at two points.

## Sound Insulation

- Special mastic deadener between hood inner and outer panels . . . additional fiberglass blanket insulation on Concours and SS 396 models.
- Asphalt-impregnated felt roof insulation.
- Fiber board rear bulkhead insulation with spray-on asphalt-impregnated fiber and felt pad on all models except Wagons.
- Jute pad floor insulation—extra thick on Concours, SS 396 and Malibu models.
- Spray-on fiber sound deadener on selected areas of door outer panels, sidewalls, wheel housings, underbody, and passenger compartment floor on Concours, SS 396 and Malibu models.
- Felt pad roof rear quarter area insulation.
- Wood fiber mat cowl kick panel insulation.

## Weathersealing

- Flush-mounted adhesively bonded windshield, rear window and Wagon quarter window for improved appearance and more positive sealing.
- Molded vinyl door windlances.
- Rubber-fabric glass run channels and solid rubber window sill seals.
- Double-sealing door and tailgate rubber seals.
- Formed rubber deck lid seal.
- Special body seam and joint sealing compounds.

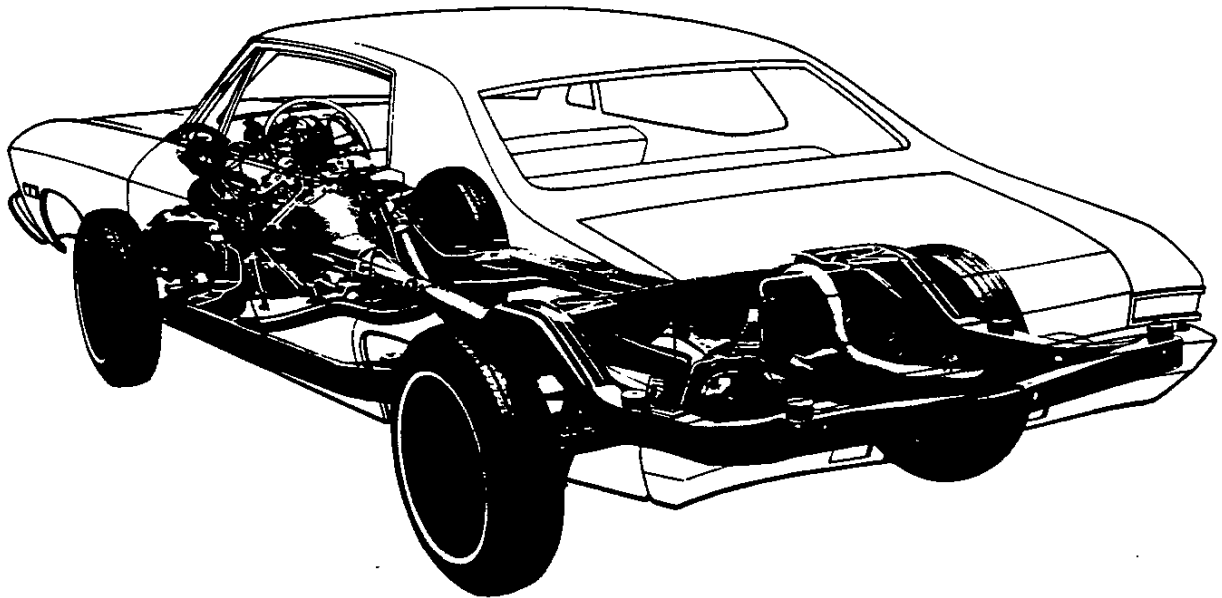
## PLUS ALL THESE QUALITY FEATURES

- Padded instrument panel
- Padded sun visors
- Padded windshield pillars
- Outside rearview mirror
- Back-up lights
- Energy-absorbing steering column
- Energy-absorbing front seat backs
- Energy-absorbing instrument panel with smooth contoured knobs and levers
- Lane-change feature incorporated in direction signal
- Inside day-night mirror with shatter-resistant vinyl-edged glass and breakaway support
- Soft, low profile window control knobs, and coat hooks
- Outer front seat shoulder belts (except Convertible)
- Rear seat shoulder belt anchors (outboard passenger positions)
- Seat belts for all passenger positions
- Front seat belt retractors
- Passenger-guard door locks—all doors
- Door handles shielded by armrests
- Folding front seat back latches (two-doors)
- Folding seat back latches (wagons)
- Energy-absorbing steering wheel
- Automatic ignition key alarm
- Thick-laminate windshield
- Side marker lights—front and rear
- Dual-speed windshield wipers
- Windshield washer
- Hide-A-Way windshield wipers standard on SS 396, Concours and Malibu models—optional on others
- Reduced-glare instrument panel and windshield wiper arms and blades
- Uniform shift quadrant
- Safety door latches and hinges
- High-level ventilation system
- Four-way hazard warning flasher
- Built-in blended-air heater and defroster system
- Magic-Mirror acrylic lacquer finish
- Crank-operated ventipanes
- Curved solid tempered glass side and rear windows
- Tempered glass convertible rear window
- Two-key lock system with keyless locking of all doors
- Push-button type outside door handles
- Weather-shielded key locks
- Spacious wagon cargo area with low loading height
- Concealed stowage area on wagons (except Nomad)
- Scuff-resistant plastic cowl side panels
- Full-view instrument panel with complete complement of instruments and controls, cigarette lighter, and locking glove compartment

See Feature Details section, under *SAFETY EQUIPMENT*, for complete listing of standard safety features.

# CHEVELLE CHASSIS SPECIFICATIONS

Rugged Chevelle wide-stance chassis with Full Coil suspension and sturdy perimeter-type frame. 112" wheelbase for Coupe and Convertible—116" for Sedan and Wagon. SS 396 models include special frame reinforcements, higher rate springs and matching shock absorbers, larger diameter stabilizer bar and F70 x 14 red stripe wide-oval tires with 14" x 6" wheels.



## Frame

Rigid torque box design steel perimeter-type frame, tailored to each body style, keeps body and suspension properly aligned and contributes to greater interior roominess. Full-length heavy-gauge steel side rails are joined by rugged front and rear suspension crossmembers, and at the rear by a channel-shaped crossmember to form a low-weight structure of exceptional strength and torsional rigidity.

## Full Coil Suspension

**FRONT:** Independent coil spring spherical joint suspension with quiet, low-friction non-metallic spherical joint liners and built-in anti-dive control. Spherical joints protected by special positive-sealing formed-rubber boots. Upper spherical joints shot-peened for greater durability. **REAR:** Coil springs with two lower control arms and two diagonally mounted upper control arms mounted in rubber bushings. Built-in leveling control of acceleration and braking forces.

## Shock Absorbers

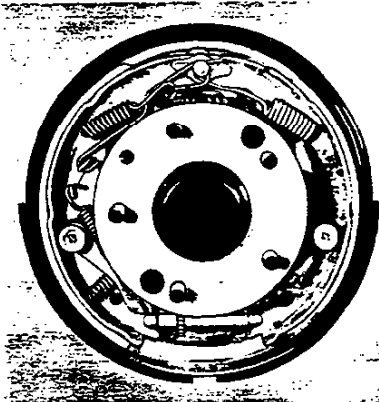
Direct double-acting sealed-unit hydraulic shock absorbers concentrically located within front coil springs between frame and lower control arms, and diagonally mounted between rear suspension lower control arms and frame.

## Front Ride Stabilizer

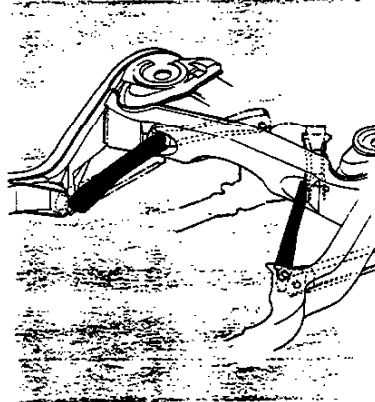
Rubber-mounted stabilizer bar linking front suspension lower control arms contributes to smooth, level cornering. Standard on all models.

## Steering System

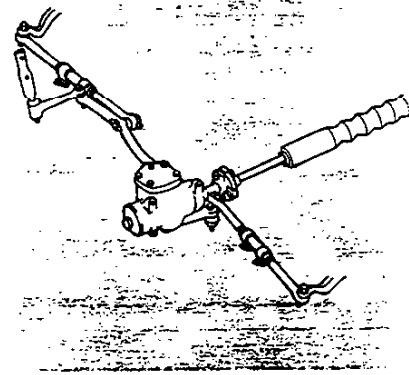
Parallel system with relay-type linkage, low-friction Ball-Race gear, and energy-absorbing steering column design. Steering shaft attached to steering gear shaft with rubber-cushioned jointed coupling to help isolate road shock and vibration. Overall ratio: standard steering—28.0:1; power steering—20.4:1. Steering wheel turns (stop to stop): standard steering—5.5; power steering—4.0.



Self-adjusting Safety-Master brake.

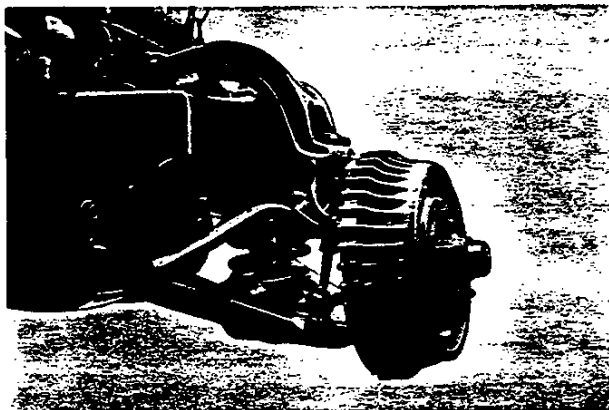


SS 396 special frame reinforcements.



Relay type steering linkage and low-friction Ball-Race steering gear with rubber-cushioned jointed steering shaft.

Independent coil spring spherical joint front suspension.



Coil spring rear suspension.



## Drive Shaft

Balanced one-piece welded steel tubing with rugged forged steel yokes. Universal joints with sealed-in lubricant attach the drive shaft to the transmission output shaft to the rear axle drive pinion.

## Rear Axle

Semi-floating hypoid gear design with 3-piece integrally welded housing. 8.875" diameter ring gear axle with 275-hp V8 and 4-speed transmission, 325-hp 327-cu.-in. V8, and SS 396 power teams. 8.125" diameter ring gear with all other power teams. For specific details see Power Teams or Feature Details section.

## Safety-Master Brakes

Self-adjusting dual master cylinder brake system with warning light on instrument panel that checks on the parking brake and monitors hydraulic pressure balance when the brakes are applied. Drum diameter—9.5". Lining width—front: 2.5", rear: 2.0". Total lining area—168.9 sq. in. Braking distribution—front: 59.0%, rear: 41.0%. Molded asbestos composition linings bonded to brake shoes. Integrally cast steel web and

alloy iron rim brake drums with wide cooling flanges for rapid heat dissipation. Finned front brake drums and special front and rear linings standard on SS 396, Wagons, 325-hp 327-cu.-in. V8 models, 275-hp V8 models with 4-speed transmission, and on 250- and 275-hp V8 Malibu Sport Sedan and Convertible models with air conditioning. Power front wheel disc brakes\* available for special operating requirements. Brakes adjust as necessary when applied while car is backing up. Convenient foot-operated parking brake.

## Wheels and Tires

Welded steel short-spoke disc 14" wheels with brake cooling slots. Rim width—5.0", except SS 396—6.0". All wheels and tires statically balanced for smoother, quieter operation and longer tire life. F70 x 14 tires standard on SS 396 models; 7.75 x 14 standard on Wagons; 7.35 x 14 standard on all other models. For additional information, see Tires in Feature Details section; other tires listed in Options and Accessories section.

\*Optional at extra cost

**SPECIAL CHASSIS EQUIPMENT**—For complete list of special options see Options and Accessories section.

# Chevelle Factory-Installed Optional\* Equipment for all Chevelle models except as otherwise specified

	RPO	RPO
<b>MODEL OPTIONS</b>		<b>TRANSMISSIONS</b>
<b>CONCOURS SPORT SEDAN</b> —Available for Malibu Sport Sedan. Includes special interior trim, instrument panel trim plate, black-accented body side and wheel opening moldings, Concours fender and deck lid nameplates, color-accented rear deck panel, and special sound insulation . . . . .	ZJ6	<b>Powerglide</b> —Available on all except Turbo-Fire 327 V8 325-hp engine . . . . .
		M35
		<b>Turbo Hydra-Matic</b> —SS 396 models only . . . . .
		M40
		<b>Special 3-Speed</b> —Includes floor mounted shift. Standard on SS 396 models . . . . .
		M13
		<b>4-Speed (Close-Ratio)</b> —Available with 325-hp Turbo-Fire 327 V8 and 350-hp engines . . . . .
		M21
		<b>4-Speed (Wide-Range)</b> —Available with standard and optional V8 engines . . . . .
		M20
		<b>Overdrive</b> —Available with both 6-cylinder engines and standard V8 . . . . .
		M10
		<b>AXLE, POSITRACTION REAR</b> . . . . .
		G80
		<b>AXLE RATIOS</b> —See Power Teams chart for availability: Economy, Performance or Special
<b>FEATURE GROUPS</b>		<b>POWER ASSISTS</b>
(Items in Feature Groups may be ordered separately.)		<b>BRAKES, POWER</b> —With drum type brakes . . . . .
		J50
<b>APPEARANCE GUARD GROUP</b> —Includes:		<b>BRAKES, POWER DISC</b> —With disc front brakes . . . . .
(A) Front Bumper Guards (All models) . . . . .	V31	J50/J52
(B) Rear Bumper Guards (All models except Wagons) . . . . .	V32	<b>STEERING, POWER</b> —Power brakes recommended . . . . .
(C) Door Edge Guards:		N40
(2-Door models) . . . . .	B93	<b>TOP, POWER</b> —Convertible models only . . . . .
(4-door models except Concours Wagon) . . . . .	B93	C06
(D) Color-Keyed Floor Mats—2 front and 2 rear (All models) . . . . .	B37	<b>WINDOWS, POWER</b> —For Malibu, Concours and SS 396 models only . . . . .
For Concours Wagon—Includes A and D . . . . .	GRP1	A31
For Nomad, Nomad Custom and Malibu Wagons Includes A, C and D . . . . .	GRP1	<b>WINDOW, POWER TAILGATE</b> —Wagons only . . . . .
For 2-Door Coupes and Convertible—Includes A, B, C and D . . . . .	GRP1	A33
For 4-Door Sedans and Sport Sedan—Includes A, B, C and D . . . . .	GRP1	
		<b>OTHER OPTIONS</b>
<b>OPERATING CONVENIENCE GROUP</b> —Includes:		<b>AIR CONDITIONING, FOUR-SEASON</b> —Includes 61-amp Delcotron, heavy-duty radiator and temperature-controlled fan. Coupe and 4-Door Sedan models with 275-hp engine as well as Malibu Convertible and Sport Sedan models with standard V8 require 7.75 or F70 tires . . . . .
(A) Electric Clock (Included in Special Instrumentation option) . . . . .	U35	C60
(B) Outside Remote-Control Rearview Mirror (All models) . . . . .	D33	<b>AIR DEFLECTOR, REAR WINDOW</b> —Wagons only . . . . .
(C) Rear Window Defroster (All models) . . . . .	C50	C51
For all models with Special Instrumentation—Includes B and C . . . . .	GRP4	<b>BATTERY, HEAVY-DUTY</b> —66 plate, 70-amp-hr . . . . .
For all models without Special Instrumentation—Includes A, B and C . . . . .	GRP4	T60
		<b>BELTS, SEAT AND SHOULDER</b> —In addition to or replacing standard belts:
<b>POWER TEAMS</b>		<b>Standard Style Shoulder Belts</b>
<b>ENGINES</b> —All models except SS 396		Convertible: 2 front . . . . .
155-hp Turbo-Thrift 250 6-cyl. . . . .	L22	AS1
250-hp Turbo-Fire 327 V8 . . . . .	L73	2 front and 2 rear . . . . .
275-hp Turbo-Fire 327 V8 . . . . .	L30	AS1/AS5
325-hp Turbo-Fire 327 V8 . . . . .	L79	All models—2 rear . . . . .
350-hp Turbo-Jet 396 V8 (SS 396 models only) . . . . .	L34	AS5
		*Extra cost

## Chevelle Factory-Installed Optional\* Equipment (Cont.)

for all Chevelle models except as otherwise specified

	RPO		RPO
<b>Custom Deluxe Seat Belts and Shoulder Belts</b>		Convertible—Includes A, D and E	
Coupes with bucket seats—5 seat and 2 shoulder . . .	ZK3	Malibu Sedans, Sport Coupe and SS 396 Sport Coupe—Includes A, B, D and E	
Coupes with full-width seats—6 seat and 2 shoulder . . . . .	ZK3	Nomad and Nomad Custom — Includes A, B, C and E	
Sedans and wagons—6 seat and 2 shoulder . . . . .	ZK3	300 and 300 Deluxe models—Includes A, B, C, D and E	
<b>Custom Deluxe Seat Belts</b>		<b>MOLDINGS, SIDE WINDOW</b> —Available with 300 and 300 Deluxe Coupes. Also all 4-Door Sedans and Wagons. Nomad Wagon includes quarter window moldings . . . . .	B90
Convertible with bucket seats—5 seat . . . . .	A39	<b>RADIATOR, HEAVY-DUTY</b> —Included when air conditioning is ordered . . . . .	V01
Convertible with full-width seat—6 seat . . . . .	A39	<b>RADIO EQUIPMENT:</b>	
<b>Custom Deluxe Shoulder Belts</b>		<b>Radios, Pushbutton</b> —with front antenna	
Convertible (requires A39): 2 front . . . . .	A85	AM Radio . . . . .	U63
2 front and 2 rear A85/AS4	AS4	AM-FM Radio . . . . .	U69
All models except Convertible—2 rear (requires option ZK3) . . . . .	AS4	AM-FM and Stereo . . . . .	U69/U79
<b>CARRIER, ROOF</b> —Wagons only . . . . .	V55	<b>Antenna, Rear</b> —Manual. Not available on wagons or with AM-FM Radio . . . . .	U73
<b>CLOCK, ELECTRIC</b> . . . . .	U35	<b>Speaker, Rear Seat</b> —Not available when Stereo is ordered . . . . .	U80
<b>CLUTCH, HEAVY-DUTY</b> — Not available on SS 396 models or with 155-hp engine . . . . .	M01	<b>ROOF COVER, VINYL</b> —Sport Coupe and Sport Sedan models only	
<b>CONSOLE</b> — Available only when Strato-bucket seats are ordered. Includes rear courtesy light. Not available when overdrive transmission is ordered	D55	Black . . . . .	C082
<b>EXHAUST, DUAL</b> —For 250-hp and 275-hp engines	N10	White . . . . .	C081
<b>FAN, TEMPERATURE-CONTROLLED</b> —Included with air conditioning. V8 models only . . . . .	K02	<b>SEAT CUSHION, EXTRA-THICK FOAM</b> —Front seat for Nomad, Nomad Custom, 300 and 300 Deluxe models . . . . .	B55
<b>GENERATOR, DELCOTRON:</b>		<b>SEATS, STRATO-BUCKET</b> —Malibu and SS 396 Sport Coupe and Convertible models . . . .	A51
42-Ampere—Not available when air conditioning or Turbo Hydra-Matic is ordered . . . . .	K79	<b>SHOCK ABSORBERS, SUPERLIFT AIR-ADJUSTABLE</b> Rear only . . . . .	G66
61-Ampere (Heavy-Duty) . . . . .	K76	<b>SPEED CONTROL, CRUISE-MASTER</b> — V8 models only. Available when automatic transmission is ordered . . . . .	K30
<b>GLASS, SOFT-RAY TINTED</b> —All windows . . . . .	A01	<b>SPEED WARNING INDICATOR</b> . . . . .	U15
Windshield only . . . . .	A02	<b>STEERING WHEEL, DELUXE</b> —Nomad, Nomad Custom, 300 and 300 Deluxe models only . . . . .	N30
<b>HEAD RESTRAINTS</b> —Front seat only		<b>STEERING WHEEL, SPORTS-STYLED</b> . . . . .	N34
With Strato-bucket front seats . . . . .	A81	<b>STEERING WHEEL, COMFORTILT</b> — Available only when Powerglide, Turbo Hydra-Matic or any floor-mounted shift lever transmission is ordered . .	N33
With full-width front seat . . . . .	A82	<b>STEREO TAPE SYSTEM</b> —Includes four speakers. Not available when rear window defroster is ordered . . . . .	U57
<b>HORN, TRI-VOLUME</b> —All except Chevelle 300 and Nomad models . . . . .	U03	<b>STRIPES, SPECIAL BODY SIDE ACCENT</b> — SS 396 models only . . . . .	D96
<b>INSTRUMENTATION, SPECIAL</b> — Available on V8 Malibu and SS 396 Sport Coupes and Convertibles only. Includes electric clock, tachometer, ammeter, temperature and oil pressure gauges . . . . .	U14	<b>SUSPENSION, SPECIAL FRONT &amp; REAR</b> . . . . .	F40
<b>LIGHT MONITORING SYSTEM</b> . . . . .	U46		
<b>LIGHTING, AUXILIARY</b> — Includes the following items and available only as package . . . . .	ZJ9		
(A) Ashtray Light (All models)			
(B) Courtesy Lights (All models except Convertible)			
(C) Glove Compartment Light (300, 300 Deluxe, Nomad and Nomad Custom)			
(D) Luggage Compartment Light (All models except Wagons)			
(E) Underhood Light (All models)			
Concours and Malibu Wagons — Include A, B and E			

\*Extra cost

## Chevelle Factory-Installed Optional\* Equipment (Cont.) for all Chevelle models except as otherwise specified

### TIRES, TUBELESS:

Note: Base tire sizes are as follows:

Std. 6 and V8	275-hp V8	325-hp V8
SS 396-F70 x 14	Same as std. ex-	SS 396-F70 x 14
Wagons-7.75 x 14	cept Malibu Sport	Others-7.75 x 14
Others-7.35 x 14	Sedan and Con-	
	vertible-7.75 x 14	

**7.35 x 14 2-ply**—Whitewall, original equipment. All except Wagons and SS 396 models ..... P58

**7.75 x 14 2-ply**—Blackwall, original equipment. Standard on Wagons, available for all other models except SS 396 ..... P65

**7.75 x 14 2-ply**—Whitewall, original equipment. All except SS 396 ..... P62

**7.75 x 14 4-ply**—Blackwall, original equipment. Wagons only ..... PN4

**7.75 x 14 4-ply**—Whitewall, original equipment. Wagons only ..... PN5

RPO

**F70 x 14 2-ply**—Red stripe, original equipment. All except SS 396 and Wagons ..... PW8

**F70 x 14 2-ply**—White stripe, original equipment. All except Wagons ..... PW7

**TOP, CONVERTIBLE**—Choice of white, black, or blue. See Sales Album, Color and Fabrics section C05

**TWO-TONE FINISH**—See Sales Album, Colors and Fabrics section for samples and availability.

**TRIM, INTERIOR**—See Color and Trim section for colors and codes. All-vinyl—Malibu Sport Coupe, Sport Sedan and 4-Door Sedan. Also Fawn or Black, all-vinyl for Chevelle 300 Deluxe models.

**WHEEL COVERS** ..... P01

**WHEEL COVERS, MAG-SPOKE** ..... PA2

**WHEEL COVERS, MAG-STYLE** ..... N96

**WHEEL COVERS, SIMULATED WIRE** ..... N95

**WHEELS, RALLY**—Includes special wheels, hubs and trim rings ..... ZJ7

**WINDSHIELD WIPERS, HIDE-A-WAY**—Standard on Malibu, SS 396 and Concours Wagon ..... C24

RPO

## Chevelle Dealer-Installed Custom Feature Accessories\* for all Chevelle models except as indicated

	Part No.
<b>AIR CONDITIONING, COMFORT-CAR</b> —Requires adapter (987156) with all engines:	
6-cylinder engine	987164
307-cu.-in. and 327-cu.-in. V8 engines	987168
396-cu.-in. V8 engine	987169

<b>AIR CONDITIONING ADAPTERS</b>	
For 6-cylinder with standard 3-Speed and Power Steering	987405
396- or 427-cu.-in. V8s with Turbo Hydra-Matic	987424

<b>ANTENNA, MANUAL</b>	
Right Front—AM-FM Radio	987228
Right Front—Except AM-FM Radio	987227
Right Rear—Except AM-FM and Wagons	987314

<b>BRAKES, POWER</b>	987267
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<b>CAP, LOCKING GAS FILLER</b>	
Station Wagon models	987291
Other models	985894

<b>CARRIER, DECK LID</b>	987254
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<b>CARRIER, LUGGAGE</b> —Station Wagon	987384
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<b>CLOCK, ELECTRIC</b>	987237
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	Part No.
<b>COMPASS</b>	987457

<b>COVER, LUGGAGE CARRIER</b>	987053
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<b>DEFLECTOR, REAR WINDOW</b> —Station Wagons	987304
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<b>DEFROSTER, REAR WINDOW</b> —All except Convertible models	987244
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<b>EMERGENCY ROAD KIT</b>	986792
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<b>EXTINGUISHER, FIRE</b> —2 $\frac{3}{4}$ -lb. dry chemical	985592
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<b>EXTINGUISHER, REFILL CARTRIDGE</b>	985593
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<b>FAN, TEMPERATURE-CONTROLLED</b>	
6-cylinder and 396-cu.-in. V8	986067
307- and 327-cu.-in. V8s	985355

<b>GUARDS, FRONT BUMPER</b>	987203
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<b>GUARDS, REAR BUMPER</b> —Except Wagons	987197
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<b>GUARDS, DOOR EDGE</b>	
2-Door models	987305
4-Door models	987306

<b>HORN, TRI-VOLUME</b>	987400
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\*Extra Cost

# Chevelle Dealer-Installed Custom Feature Accessories\*

for all Chevelle models except as indicated

	Part No.		Part No.
<b>LIGHT MONITORING SYSTEM</b>		<b>RADIO</b>	
Convertibles .....	987427	Pushbutton AM, Front Antenna .....	987209
Wagons .....	987416	Pushbutton AM-FM, Front Antenna .....	987210
Other models .....	987426	<b>SPEAKER, FRONT</b> .....	987222
<b>LIGHTS</b>		<b>SPEAKER, REAR</b>	
Ashtray .....	987281	Wagons .....	987277
Glove Compartment .....	987188	Other models .....	987302
Luggage Compartment .....	987242	<b>SPEED CONTROL, CRUISE-MASTER—V8 models</b>	
Underhood .....	987225	with automatic transmission .....	987442
Courtesy .....	987256	<b>SPOTLIGHT, HAND PORTABLE</b> .....	987112
<b>LIGHTER, CIGARETTE</b> .....	987440	<b>SPOTLIGHT, REMOTE-CONTROL</b> .....	987386
<b>LITTER CONTAINER—Instrument Panel</b>		<b>SPOTLIGHT ADAPTER — For right-hand installa-</b>	
Mounted .....	986670	tion of Remote-Control Unit .....	987387
<b>LITTER CONTAINER—Saddle Type</b>		<b>STEREO MULTIPLEX SYSTEM</b>	
Black .....	986607	Multiplex .....	987411
Blue .....	986602	Front speaker .....	987222
Fawn .....	986603	Rear speakers (2)—Wagons .....	987277
Red .....	986608	Others .....	987409
<b>LOCK, SAFETY—Rear Door</b> .....	987458	<b>STEREO TAPE SYSTEM</b>	
<b>LOCK, SPARE WHEEL</b> .....	987048	Tape player .....	987410
<b>MAT, FLOOR—Clear Vinyl, Full-width</b>		Front speaker .....	987222
Front .....	986997	Rear speakers (2)—Wagons .....	987277
Rear .....	986998	Others .....	987302
<b>MATS, FLOOR—Contour Rubber, Front</b>		<b>TAPE CARTRIDGE</b> .....	987118
Turquoise .....	987355	<b>TACHOMETER</b> .....	987099
Blue .....	987347	<b>TISSUE DISPENSER—Instrument panel mounted</b>	987403
Black .....	987348	<b>TRAILER HITCH</b> .....	987390
Red .....	987358	<b>TRAILER WIRING HARNESS</b>	
Gold .....	987349	Wagons .....	987292
Saddle .....	987357	Other models .....	987283
Olive Green .....	987354	<b>VENTSHADES</b>	
<b>MAT, FLOOR—Contour Rubber, Rear</b>		Wagons .....	987451
Turquoise .....	987360	Other models .....	987450
Blue .....	987350	<b>WHEEL COVERS—Set of four—14"</b> .....	987250
Black .....	987351	<b>WHEEL COVERS, MAG STYLE—Set of four—14"</b> .	987067
Red .....	987363	<b>WHEEL COVERS, SIMULATED WIRE</b>	
Gold .....	987352	Set of four—14" .....	987100
Saddle .....	987362		
Olive Green .....	987359		
<b>MIRROR—Vanity Visor</b> .....	987255		
<b>MIRROR, OUTSIDE—Right Hand</b> .....	987202		
<b>RACK, SKI</b>			
Rear deck lid type .....	987196		
Clamp on type .....	987404		
Type used with Luggage Carrier .....	987220		

\*Extra cost



# 1968 CHEVELLE EXTERIOR COLOR

<b>Interior Trim Codes:</b> <b>E or L</b> – Black <b>B</b> – Blue <b>G or P</b> – Gold <b>D</b> – Red <b>R</b> – Gray/ Green <b>T</b> – Turquoise <b>J</b> – Saddle <b>K</b> – Parchment <b>X</b> – Teal		<b>INTERIOR COLOR AND CODE</b>																										
		CONCOURS				SS 396								MALIBU														
		ESTATE WAGON		*SPORT SEDAN (RPO ZJ6)		SPORT COUPE AND CONVERTIBLE								SPORT COUPE, SPORT SEDAN, 4-DOOR SEDAN (Std. Trim) (*Opt. Trim)														
						(Standard Seat)				(*Strato-bucket)																		
		ALL-VINYL		CLOTH		ALL-VINYL				ALL-VINYL				CLOTH		ALL-VINYL												
		Black		Blue		Saddle		Turquoise		Black		Blue		Gold		Gray/Green		Black		Gold		Teal		Parchment (Coupe only)				
<b>EXTERIOR COLOR</b>	<b>CODE</b>	Black	Blue	Saddle	Turquoise	Black	Blue	Gold	Gray/Green	Black	Gold	Teal	Red (Conv. only)	Parchment (Coupe only)	Black	Blue	Gold	Teal	Red	Parchment	Black	Blue	Gold	Gray/Green	Black	Gold (Sport models only)	Teal (Sport models only)	Parchment (Coupe only)
Tuxedo Black	<b>AA</b>	E	B	J	T	E	B	G	R	E	G	X	D	K	E	B	G	X	D	K	E	B	G	R	L	P	X	K
Ermine White	<b>CC</b>	E	B	J	T	E	B	G	R	E	G	X	D	K	E	B	G	X	D	K	E	B	G	R	L	P	X	K
Grotto Blue	<b>DD</b>	E	B			E	B			E				K	E	B				K	E	B			L			K
Fathom Blue	<b>EE</b>	E	B			E	B		R	E	X			K	E	B		X		K	E	B		R	L		X	K
Island Teal	<b>FF</b>	E	B			E	B			E	X			K	E	B		X		K	E	B			L		X	K
Ash Gold	<b>GG</b>	E		J		E		G	R	E	G			K	E		G			K	E		G	R	L	P		K
Grecian Green	<b>HH</b>	E		J		E		G	R	E	G			K	E		G			K	E		G	R	L	P		K
Tripoli Turquoise	<b>KK</b>	E			T	E				E				K	E					K	E				L			K
Teal Blue	<b>LL</b>	E	B			E	B		R	E	X			K	E	B		X		K	E	B		R	L		X	K
Cordovan Maroon	<b>NN</b>	E		J		E				E			D	K	E				D	K	E				L			K
Seafrost Green	<b>PP</b>	E		J		E		G	R	E	G			K	E		G			K	E		G	R	L	P		K
Matador Red	<b>RR</b>	E				E				E			D	K	E				D	K	E				L			K
Palomino Ivory	<b>TT</b>	E	B	J	T	E	B	G	R	E	G	X	D	K	E	B	G	X	D	K	E	B	G	R	L	P	X	K
Sequoia Green	<b>VV</b>	E		J		E		G	R	E	G			K	E		G			K	E		G	R	L	P		K
Butternut Yellow	<b>YY</b>	E		J		E		G	R	E	G			K	E		G			K	E		G	R	L	P		K
<b>TWO-TONE EXTERIOR COMBINATIONS &amp; CODE</b> (Not available on Wagons and Convertibles)																												
Grotto Blue/ Ermine White	<b>DC</b>						B									B							B					
Grotto Blue/ Fathom Blue	<b>DE</b>						B									B							B					
Fathom Blue/ Grotto Blue	<b>ED</b>						B									B							B					
Ash Gold/ Palomino Ivory	<b>GT</b>					E		G		E	G				E		G				E		G			L	P	
Teal Blue/ Island Teal	<b>LF</b>										X							X									X	

\*Optional at extra cost.

# AND INTERIOR TRIM CHOICES

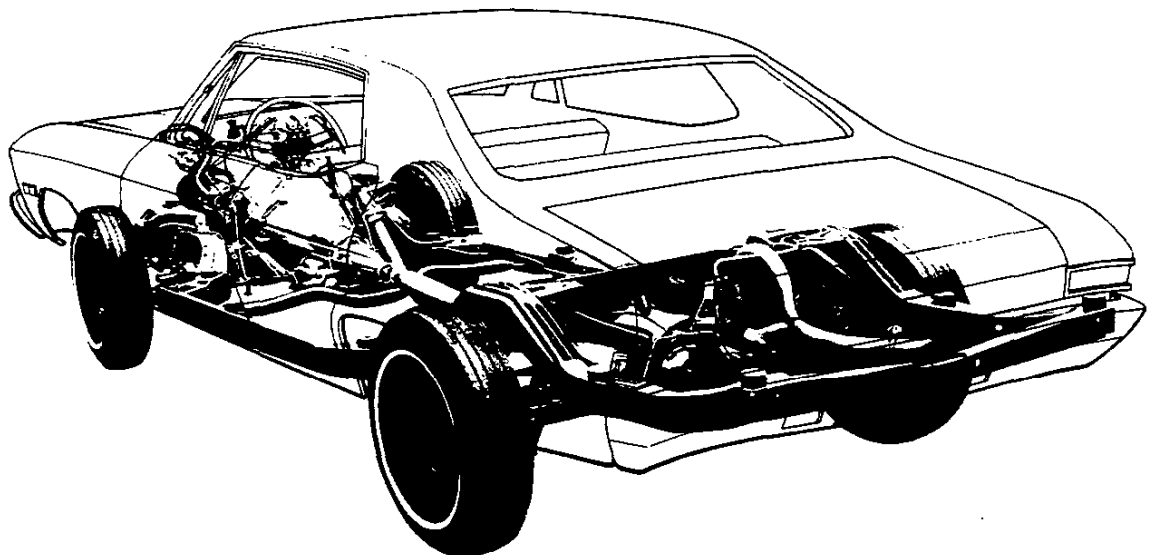
INTERIOR COLOR AND CODE																		Safety belt colors:													
MALIBU						300 DELUXE				NOMAD CUSTOM		300		NOMAD				Interior Trim	Std. Belt	Custom Belt											
SPORT COUPE (*Strato-bucket) CONVERTIBLE (Standard and *Strato-bucket)			WAGON			ALL MODELS				WAGON		COUPE		WAGON				Black	Black	Black											
ALL-VINYL						CLOTH		*Opt. Vinyl	ALL-VINYL		ALL-VINYL		ALL-VINYL				Grey/Green	Black	Gr/Gr												
Black	BLUE (bucket seat only)	Gold	Teal	Red	Parchment (bucket seat only)	Black	Blue	Saddle	Turquoise	Black	Blue	Gold	Black (fleet only)	Gold	Black	Blue	Saddle	Black	Blue	Saddle	Turquoise	Black	Turq.	Red	Black	Red	Teal	Teal	Parchment	Black	Black
																		CODE	EXTERIOR COLOR												
E	B	G	X	D	K	E	B	J	T	E	B	G	L	P	E	B	J	E	B	G	E	B	J	AA	Tuxedo Black						
E	B	G	X	D	K	E	B	J	T	E	B	G	L	P	E	B	J	E	B	G	E	B	J	CC	Ermine White						
E	B				K	E	B			E	B	L			E	B		E	B		E	B		DD	Grotto Blue						
E	B	X			K	E	B			E	B	L			E	B		E	B		E	B		EE	Fathom Blue						
E	B	X			K	E	B			E	B	L			E	B		E	B		E	B		FF	Island Teal						
E	G				K	E	J			E	G	L	P		E	J		E	G		E	J	GG	Ash Gold							
E	G				K	E	J			E	G	L	P		E	J		E	G		E	J	HH	Grecian Green							
E					K	E	T			E	L				E			E			E		KK	Tripoli Turquoise							
E	B	X			K	E	B			E	B	L			E	B		E	B		E	B		LL	Teal Blue						
E				D	K	E	J			E	L				E	J		E			E	J	NN	Cordovan Maroon							
E	G				K	E	J			E	G	L	P		E	J		E	G		E	J	PP	Seafrost Green							
E				D	K	E				E	L				E			E			E		RR	Matador Red							
E	B	G	X	D	K	E	B	J	T	E	B	G	L	P	E	B	J	E	B	G	E	B	J	TT	Palomino Ivory						
E	G				K	E	J			E	G	L	P		E	J		E	G		E	J	VV	Sequoia Green							
E	G				K	E	J			E	G	L	P		E	J		E	G		E	J	YY	Butternut Yellow							
																		DC	Grotto Blue/ Ermine White												
																		DE	Grotto Blue/ Fathom Blue												
																		ED	Fathom Blue/ Grotto Blue												
																		GT	Ash Gold/ Palomino Ivory												
																		LF	Teal Blue/ Island Teal												

Vinyl Roof Cover, Black or White, available on SS 396 and Malibu Coupes and Sport Sedan models.  
Convertible Top available in choice of White, Black, or Blue.

\*Optional at extra cost.

# 1968 Chevelle and El Camino Production Totals

Chevelle Sedans		Model	Engine	Total	Chevelle Station Wagons (two seat)		
300 Deluxe four door sedan	13369	6	15,307	Nomad two seat	13135	6	6,340
300 Deluxe four door sedan	13469	8	7,064	Nomad two seat	13235	8	4,930
Malibu four door sedan	13569	6	9,737	Nomad Custom two seat	13335	6	2,830
Malibu four door sedan	13669	8	30,772	Nomad Custom two seat	13435	8	7,420
total Chevelle sedans		6	25,044	Malibu two seat	13535	6	1,314
total Chevelle sedans		8	37,836	Malibu two seat	13635	8	13,739
				Concours two seat	13735	6	210
				Concours two seat	13835	8	4,088
				total Station Wagons two seat		6	10,694
				total Station Wagons two seat		8	30,117
<b>Chevelle Coupes (post)</b>				<b>Chevelle Station Wagons (three seat)</b>			
"300" two door post	13127	6	9,733	Nomad Custom three seat	13445	8	753
"300" two door post	13227	8	2,919	Malibu three seat	13545	6	5
300 Deluxe two door post	13327	6	5,661	Malibu three seat	13645	8	1,049
300 Deluxe two door post	13427	8	3,796	Concours three seat	13845	8	505
total Chevelle coupes		6	15,394	total Station Wagons three seat		6	5
total Chevelle coupes		8	6,715	total Station Wagons three seat		8	2,307
<b>Chevelle Sport Coupes</b>				<b>El Camino</b>			
300 Deluxe two door	13337	6	4,534	Standard	13380	6	2,757
300 Deluxe two door	13437	8	6,803	Standard	13480	8	6,082
Malibu two door	13537	6	20,561	Custom	13580	6	1,072
Malibu two door	13637	8	180,401	Custom	13680	8	26,690
Super Sport	13837	8	55,309	Super Sport	13880	8	5,190
total Chevelle sport coupes		6	25,095	total El Camino		6	3,829
total Chevelle sport coupes		8	242,513	total El Camino		8	37,962
<b>Chevelle Sport Sedan</b>				<b>Total Chevelle Six Cylinder</b> .....82,845			
Malibu four door	13539	6	1,949	<b>Total Chevelle Eight Cylinder</b> .....381,824			
Malibu four door	13639	8	15,069	<b>Total Chevelle Production</b> .....464,669			
<b>Chevelle Convertibles</b>							
Malibu two door	13567	6	835				
Malibu two door	13667	8	6,959				
Super Sport	13867	8	2,286				
total Chevelle convertibles		6	835				
total Chevelle convertibles		8	9,245				



# CHEVELLE

## 1968 MODELS WITH STANDARD EQUIPMENT Coupes and Convertible (112" Wheelbase) Sedans and Wagons (116" Wheelbase)

Model Description	List Price Less Invoice Discount (19%) <sup>‡</sup>	List Price Less Base Discount (21%)	Factory D & H	List Price	Mfr's Spt'd Dealer D & H	Mfr's Spt'd Retail Price*	Destination Group No.	Destination Charge	Total
<b>6-Cylinder Models</b>									
<b>140-hp Turbo-Thrift 230 Engine</b>									
<b>300</b>									
13127 2-Door Coupe—5-Passenger						\$2341.00	5		
<b>Nomad</b>									
13135 4-Door Station Wagon—2-Seat						2625.00	7		
<b>300 Deluxe</b>									
13327 2-Door Coupe—5-Passenger						2415.00	5		
13337 Sport Coupe—5-Passenger						2479.00	6		
13369 4-Door Sedan—6-Passenger						2445.00	5		
<b>Nomad Custom</b>									
13335 4-Door Station Wagon—2-Seat						2736.00	7		
<b>Malibu</b>									
13569 4-Door Sedan—6-Passenger						2524.00	5		
13539 Sport Sedan—6-Passenger						2629.00	6		
13537 Sport Coupe—5-Passenger						2558.00	6		
13567 Convertible—5-Passenger						2757.00	8		
13535 4-Door Station Wagon—2-Seat						2846.00	7		
<b>Concours</b>									
13735 4-Door Estate Wagon—2-Seat						2978.00	7		

## 8-Cylinder Models

### 200-hp Turbo-Fire 307 Engine

<b>300</b>									
13227 2-Door Coupe—5-Passenger						2447.00	5		
<b>Nomad</b>									
13235 4-Door Station Wagon—2-Seat						2731.00	7		
<b>300 Deluxe</b>									
13427 2-Door Coupe—5-Passenger						2521.00	5		
13437 Sport Coupe—5-Passenger						2584.00	6		
13469 4-Door Sedan—6-Passenger						2550.00	5		
<b>→ Nomad Custom</b>									
13435 4-Door Station Wagon—2-Seat						2841.00	7		
13445 4-Door Station Wagon—3-Seat						2953.00	7		
<b>→ Malibu</b>									
13669 4-Door Sedan—6-Passenger						2629.00	5		
13639 Sport Sedan—6-Passenger						2735.00	6		
13637 Sport Coupe—5-Passenger						2663.00	6		
13667 Convertible—5-Passenger						2863.00	8		
13635 4-Door Station Wagon—2-Seat						2951.00	7		
13645 4-Door Station Wagon—3-Seat						3063.00	7		
<b>→ Concours</b>									
13835 4-Door Estate Wagon—2-Seat						3083.00	7		
13845 4-Door Estate Wagon—3-Seat						3195.00	7		

### 325-hp Turbo-Jet 396 Engine

<b>SS 396</b>									
13837 Sport Coupe—5-Passenger						2899.00	6		
13867 Convertible—5-Passenger						3102.00	8		

<sup>‡</sup> Base discount is 21% with the 2% difference retained for dealer's account in accordance with Terms of Sale Bulletin.  
\* Manufacturer's Suggested Retail Prices do not include state and local taxes, license fees, options or accessories.

→ Indicates change

# CHEVELLE

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Net	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price <sup>⊗</sup>
<b>MODEL OPTIONS</b>					
Concours Sedan: (Available only for Malibu Sport Sedan) Includes luxury cloth seat and sidewall trim, steering wheel emblem, instrument panel trim plate, black accented lower body side and wheel opening moldings, "Concours By Chevrolet" deck lid nameplate and special sound insulation.....	Z16				\$131.65

### APPEARANCE GUARD GROUP

### FEATURE GROUPS\*

INCLUDES			
(A) Front Bumper Guards (All Models).....	V31		15.80
(B) Rear Bumper Guards (All Models Except Wagons).....	V32		15.80
(C) Door Edge Guards (2-Door Models).....	B93		4.25
(4-Door Models except Concours Wagon).....	B93		7.40
(D) Color-Keyed Floor Mats 2 Front, 2 Rear (All Models).....	B37		10.55
For Concours Wagon—Includes A & D.....	GRP1		26.35
For Nomad, Nomad Custom & Malibu Wagons—Includes A, C & D.....	GRP1		33.75
For 2-Door Coupes & Convertibles—Includes A, B, C & D.....	GRP1		46.40
For 4-Door Sedans & Sport Sedan—Includes A, B, C & D.....	GRP1		49.55

### OPERATING CONVENIENCE GROUP

INCLUDES			
(A) Electric Clock (Included when special instrumentation is ordered).....	U35		15.80
(B) L.H. Outside Remote-Control Rearview Mirror (All Models).....	D33		9.50
(C) Rear Window Defroster			
All models except wagons and convertibles.....	C50		21.10
Wagons and convertibles.....	C50		31.60
For All Models except Convertible and Wagon without special instrumentation—Includes A, B & C.....	GRP4		46.40
For V8 Malibu and SS 396 Sport Coupe with special instrumentation—Includes B & C.....	GRP4		30.60
For Convertible and Wagon without special instrumentation—Includes A, B & C.....	GRP4		56.90
For V8 Convertible with special instrumentation—Includes B & C.....	GRP4		41.10

\*Any item contained in feature groups may be ordered separately.

### POWER TEAMS

Engine: See Power Teams chart for complete engine specifications, model and transmission availability

155-hp Turbo-Thrift 250 6-cyl.....	L22	26.35
250-hp Turbo-Fire 327 V8.....	L73	63.20
275-hp Turbo-Fire 327 V8.....	L30	92.70
325-hp Turbo-Fire 327 V8.....	L79	198.05
350-hp Turbo-Jet 396 V8 (SS 396 models only).....	L34	105.35
375-hp Turbo-Jet 396 V8 (SS 396 models only).....	L78	237.00

Transmission: See Power Teams chart for availability

<b>Powerglide:</b>		
V8 models.....	M35	194.85
6-cyl models.....	M35	184.35
Turbo Hydra-Matic (SS 396 models only).....	M40	237.00
Special 3-Speed; floor-mounted (Standard on SS 396 models).....	M13	79.00
4-Speed (Wide-Range).....	M20	184.35
4-Speed (Close-Ratio).....	M21	184.35
HD 4-Speed (Close-Ratio) (SS 396 models only).....	M22	237.00
Overdrive.....	M10	115.90

<b>Axle, Positraction Rear</b> .....	G80	42.15
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Axle Ratios: See Power Teams chart for availability

Economy.....	AXL1	2.15
Performance.....	AXL2	2.15

Special (If axle ratio other than Standard, Economy or Performance is desired refer to Power Teams chart for availability—then list ratio on order form in box under "Special Ratio").....		2.15
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### POWER ASSISTS

Brakes, Power: With drum-type brakes.....	J50	42.15
Brakes, Power: With disc-type front brakes.....	J50/J52	100.10
Steering, Power: (Power brakes recommended).....	N40	94.80
Top, Power: Convertible models only.....	C06	52.70
Windows, Electric: For Malibu, Concours and SS 396 models only.....	A31	100.10
Window, Electric Tailgate: 2-seat wagons only.....	A33	31.60

⊗ State and local taxes not included.

# CHEVELLE

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Net	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price*
<b>OTHER OPTIONS</b>					
<b>Air Conditioning, Four-Season:</b> Not available when 375-hp engine is ordered on SS 396 models. All coupe and 4-door sedan models with 275- or 250-hp engine and Malibu Sport Sedan and Convertible models with 307 engine require use of 7.75 or F70-14 tires. Includes 61-amp Delcotron, heavy-duty radiator and temperature-controlled radiator fan	C60				\$360.20
<b>Air Deflector, Rear Window:</b> Anodized aluminum. Wagons only	CS1				19.00
<b>Battery, Heavy-Duty:</b> 66-plate, 70-amp-yr.	T60				7.40
<b>Belts, Seat and Shoulder:</b> In addition to or replacing standard belts as shown in chart on page 24.					
<b>STANDARD STYLE SHOULDER BELTS:</b>					
<i>Convertible Only—</i>					
2 front	AS1				23.20
2 front, 2 rear	AS1/ASS				46.40
<i>All Models except Convertibles—</i>					
2 rear	ASS				23.20
<b>CUSTOM DELUXE BELTS:</b>					
<i>Seat and Shoulder Belts—</i>					
Coupes with bucket seats—5 seat & 2 shoulder	ZK3				11.10
Coupes with full-width seats—6 seat & 2 shoulder	ZK3				12.65
Sedans and 2 seat wagons—6 seat & 2 shoulder	ZK3				12.65
3-seat wagons—8-seat & 2 shoulder	ZK3				15.80
<i>Seat Belts Only—</i>					
Convertible with bucket seats—5 seat	A39				7.90
Convertible with full-width seat—6 seat	A39				9.50
<i>Shoulder Belts Only—</i>					
<i>Convertible (Requires Option A39)</i>					
2 front	A85				26.35
2 front, 2 rear	A85/AS4				52.70
<i>All Models except Convertible (Requires option ZK3)—</i>					
2 rear	AS4				26.35
	V55				44.25
<b>Carrier, Roof:</b> Wagons only					
<b>Clutch, Heavy-Duty:</b> Not available on SS 396 models or with 155-hp engine V8 models	M01				10.55
6-cyl models	M01				5.30
<b>Console:</b> Available only when bucket seats are ordered. Includes rear seat courtesy light compartment. Gearshift lever is mounted on console. With std 3-speed available only on SS 396. Not available when overdrive transmission is ordered	D55				50.60
<b>Exhaust, Dual:</b> For 250-hp or 275-hp engine only	N10				27.40
<b>Fan, Radiator:</b> Temperature-controlled. V8 models only. Included when Four-Season air conditioning or 375-hp engine is ordered	K02				15.80
<b>Generators:</b>					
42-amp Delcotron. Not available when air conditioning, Turbo Hydra-Matic transmission or 375-hp engine is ordered	K79				10.55
61-amp Delcotron (heavy-duty). Not available when 375-hp engine is ordered					
With air conditioning	K76				5.30
Without air conditioning	K76				26.35
<b>Glass, Soft-Ray Tinted:</b> All windows	A01				34.80
<b>Head Restraints: Driver and passenger</b>					
With Strato-bucket front seats	A81				52.70
With full-width front seat	A82				42.15
<b>Horn, Tri-Volume:</b> Malibu, Concours and SS 396 models only	U03				13.70
<b>Instrumentation, Special:</b> Available on V8 Malibu and SS 396 Sport Coupes or Convertibles only. Includes clock, tachometer, ammeter, temperature and oil pressure gauges	U14				94.80
<b>Light Monitoring System</b>	U46				26.35
<b>Lighting, Auxiliary:</b>					
(A) Ashtray Light					
(B) Courtesy Lights					
(C) Glove Compartment Light					
(D) Luggage Compartment Light					
(E) Underhood Light					
For Concours and Malibu Wagons—includes A, B & E	Z19				8.45
For Convertible—includes A, D & E	Z19				6.85
For Malibu Sedans, Sport Coupes and SS 396 Sport Coupe—includes A, B, D & E	Z19				11.10
For Nomad and Nomad Custom—includes A, B, C & E	Z19				11.10
For 300 and 300 Deluxe Models—includes A, B, C, D & E	Z19				13.70
<b>Moldings, Side Window:</b>					
300 and 300 Deluxe 2-Door Coupes	B90				21.10
4-Door Sedans and Nomad Custom, Malibu or Concours Wagons	B90				26.35
Nomad Station Wagons: also includes moldings on rear quarter windows	B90				31.60
<b>Molding, Body Side:</b>	B84				26.35
<b>Paint, Exterior:</b> Solid colors					N.C.
Two-tone combinations: coupe and sedan models only					21.10
<b>Radiator, Heavy-Duty:</b> Included when air conditioning or 375-hp engine is ordered	V01				

\* State and local taxes not included.

➔ Indicates change

# CHEVELLE

## OPTIONS AND ACCESSORIES WHEN INSTALLED BY CHEVROLET

Description	Option Number	Dealer Net	Factory D & H	List Price	Mir's Suggested Retail Delivered Price*
<b>Radio Equipment</b>					
Radios, Pushbutton—with front antenna					
AM Radio	U63				\$ 61.10
AM-FM Radio	U69				133.80
AM-FM and Stereo	U69/U79				239.15
Antenna, Rear—not available on wagons or with AM-FM Radio					
Manual	U73				9.50
Speaker, Rear Seat—not available when Stereo is ordered	U80				13.20
<b>Roof Cover, Vinyl: Malibu and SS 396 Sport Coupe or Sport Sedan models only (Solid exterior colors only)</b>					
Black	C082				84.30
White	C081				84.30
<b>Seat Cushion, Extra-Thick Foam Front: 300, Nomad, 300 Deluxe and Nomad Custom models only</b>					
	B55				7.40
<b>Seats, Strato-Bucket: Malibu and SS 396 Sport Coupe or Convertible only</b>					
	A51				110.60
<b>Shock Absorbers, Rear:</b>					
Superlift	G66				42.15
<b>Speed and Cruise Control: (Cruise-Master) V8 models only. Available only when Powerglide or Turbo Hydra-Matic transmission is ordered</b>					
	K30				52.70
<b>Speed Warning Indicator</b>					
	U15				10.55
<b>Steering Wheel, Comfortilt: Available only when automatic or floor mounted transmission is ordered</b>					
	N33				42.15
<b>Steering Wheel, Deluxe:</b>					
300 and Nomad models	N30				7.40
300 Deluxe and Nomad Custom models	N30				4.25
<b>Steering Wheel, Sports-Styled: Wood-grained plastic rim</b>					
	N34				31.60
<b>Stereo Tape System: Includes four speakers. Not available when rear window defroster is ordered</b>					
	U57				133.80
<b>Striping, Accent: SS 396 models only</b>					
	D96				29.50
<b>Suspension, Special Front &amp; Rear: Includes special front and rear springs and shock absorbers</b>					
	F40				4.75
<b>Tops, Convertible: Available with all exterior solid colors</b>					
Manual					
White	C051	N.C.	N.C.	N.C.	N.C.
Black	C052	N.C.	N.C.	N.C.	N.C.
Blue	C054	N.C.	N.C.	N.C.	N.C.
<b>Trim, Interior: For availability see Color &amp; Trim chart</b>					
<b>All-vinyl: Malibu Sport Coupe and Sport Sedan or 300 2-door coupe or sedan models only</b>					
					10.55
<b>Ventilation, HD Closed Engine Positive: Available only when std or 155-hp or 275-hp engine is ordered</b>					
	KD5				6.35
<b>Wheel Covers: Four bright metal</b>					
	P01				21.10
<b>Wheel Covers, Mag-Style</b>					
	N96				73.75
<b>Wheel Covers, Mag-Spoke</b>					
	PA2				73.75
<b>Wheel Covers, Simulated Wire</b>					
	N95				73.75
<b>Wheels, Rally: Includes special wheel, hub cap and trim ring</b>					
	Z17				31.60
<b>Windshield Wipers, Concealed: Standard on Malibu, SS 396 &amp; Concours Wagon. Includes articulated left side blade</b>					
	C24				19.00

\* State and local taxes not included.

# CHEVELLE TIRES

## CHEVELLE BASE TUBELESS TIRE CHART

Model		Base Tires	275- or 250-hp 327-cu-in Engine	325-hp 327-cu-in Engine
6-Cyl	V8			
3127	13227	7.35-14/2-ply (4-ply rating)	—	7.75-14/2-ply (4-ply rating)
3135	13235	7.75-14/2-ply (4-ply rating)	—	—
3327	13427	7.35-14/2-ply (4-ply rating)	—	7.75-14/2-ply (4-ply rating)
3335	—	7.75-14/2-ply (4-ply rating)	—	—
3337	13437	7.35-14/2-ply (4-ply rating)	—	7.75-14/2-ply (4-ply rating)
3369	13469	7.35-14/2-ply (4-ply rating)	—	7.75-14/2-ply (4-ply rating)
3535	—	7.75-14/2-ply (4-ply rating)	—	—
3537	13637	7.35-14/2-ply (4-ply rating)	—	7.75-14/2-ply (4-ply rating)
3539	13639	7.35-14/2-ply (4-ply rating)	7.75-14/2-ply (4-ply rating)	7.75-14/2-ply (4-ply rating)
3567	13667	7.35-14/2-ply (4-ply rating)	7.75-14/2-ply (4-ply rating)	7.75-14/2-ply (4-ply rating)
3569	13669	7.35-14/2-ply (4-ply rating)	—	7.75-14/2-ply (4-ply rating)
13735	—	7.75-14/2-ply (4-ply rating)	—	—
—	13837	◆F70-14/2-ply (4-ply rating)	—	—
—	13867	◆F70-14/2-ply (4-ply rating)	—	—
—	13435	8.25-14/2-ply (4-ply rating)	—	—
—	13445	8.25-14/2-ply (4-ply rating)	—	—
—	13635	8.25-14/2-ply (4-ply rating)	—	—
—	13645	8.25-14/2-ply (4-ply rating)	—	—
—	13835	8.25-14/2-ply (4-ply rating)	—	—
—	13845	8.25-14/2-ply (4-ply rating)	—	—

◆ Special Red Stripe

## FACTORY INSTALLED REGULAR PRODUCTION TUBELESS TIRES

Description	Option Number	Dealer Net	Factory D & H	List Price	Mfr's Suggested Retail Delivered Price <sup>Ⓞ</sup>
<b>Replaces (5) 7.35-14/2-ply (4-ply rating) Original Equipment Blackwall</b>					
(5) 7.35-14/2-ply (4-ply rating) Original Equipment Whitewall	P58				\$31.35
(5) 7.75-14/2-ply (4-ply rating) Original Equipment Blackwall	P65				14.70
(5) 7.75-14/2-ply (4-ply rating) Original Equipment Whitewall	P62				46.00
<i>For use when disc brakes are not ordered</i>					
(5) F70-14/2-ply (4-ply rating) Special Red Stripe	PW8				69.70
(5) F70-14/2-ply (4-ply rating) Special White Stripe	PW7				69.70
(5) F70-14/2-ply (4-ply rating) Special "Belted" Red Stripe	PY5				96.75
(5) F70-14/2-ply (4-ply rating) Special "Belted" White Stripe	PY4				96.75
<i>For use when disc brakes are ordered</i>					
b(5) F70-14/2-ply (4-ply rating) Special Red Stripe	PW8				64.45
b(5) F70-14/2-ply (4-ply rating) Special White Stripe	PW7				64.45
b(5) F70-14/2-ply (4-ply rating) Special "Belted" Red Stripe	PY5				91.45
b(5) F70-14/2-ply (4-ply rating) Special "Belted" White Stripe	PY4				91.45
<b>Replacing (5) 7.75-14/2-ply (4-ply rating) Original Equipment Blackwall</b>					
(5) 7.75-14/2-ply (4-ply rating) Original Equipment Whitewall	P62				31.35
a(5) 8.25-14/2-ply (4-ply rating) Original Equipment Blackwall	P75				15.45
a(5) 8.25-14/2-ply (4-ply rating) Original Equipment Whitewall	P77				50.95
a(5) 8.25-14/2-ply (4-ply rating) Special Nylon Blackwall	PQ6				30.85
a(5) 8.25-14/2-ply (4-ply rating) Special Nylon Whitewall	PQ7				66.40
a(5) 8.25-14/4-ply (8-ply rating) Special Service Blackwall	PR2				65.10
a(5) 8.25-14/4-ply (8-ply rating) Special Service Whitewall	PR3				100.65
<i>For use when disc brakes are not ordered</i>					
b(5) F70-14/2-ply (4-ply rating) Special Red Stripe	PW8				55.05
b(5) F70-14/2-ply (4-ply rating) Special White Stripe	PW7				55.05
b(5) F70-14/2-ply (4-ply rating) Special "Belted" Red Stripe	PY5				81.95
b(5) F70-14/2-ply (4-ply rating) Special "Belted" White Stripe	PY4				81.95
<i>For use when disc brakes are ordered</i>					
(5) F70-14/2-ply (4-ply rating) Special Red Stripe	PW8				49.75
(5) F70-14/2-ply (4-ply rating) Special White Stripe	PW7				49.75
(5) F70-14/2-ply (4-ply rating) Special "Belted" Red Stripe	PY5				76.70
(5) F70-14/2-ply (4-ply rating) Special "Belted" White Stripe	PY4				76.70
<b>Replacing (5) 8.25-14/2-ply (4-ply rating) Original Equipment Blackwall</b>					
a(5) 8.25-14/2-ply (4-ply rating) Original Equipment Whitewall	P77				35.50
a(5) 8.25-14/2-ply (4-ply rating) Special Nylon Blackwall	PQ6				15.50
a(5) 8.25-14/2-ply (4-ply rating) Special Nylon Whitewall	PQ7				51.00
a(5) 8.25-14/4-ply (8-ply rating) Special Service Blackwall	PR2				49.70
a(5) 8.25-14/4-ply (8-ply rating) Special Service Whitewall	PR3				85.15
<b>Replaces (5) F70-14/2-ply (4-ply rating) Special Red Stripe Tires (SS 396)</b>					
(5) F70-14/2-ply (4-ply rating) Special White Stripe	PW7	N.C.	N.C.	N.C.	N.C.
(5) F70-14/2-ply (4-ply rating) Special "Belted" Red Stripe	PY5				26.55
(5) F70-14/2-ply (4-ply rating) Special "Belted" White Stripe	PY4				26.55

• State and local taxes not included.

a Available on Wagons only.

b Not available on Wagons.



# TRANSMISSION SHIFT AND FLOOR CONSOLE AVAILABILITY

ENGINE	TRANSMISSION	STANDARD SHIFT-LEVER LOCATION	RPO D55 FLOOR CONSOLE
140-hp Turbo-Thrift 230	Std 3-Speed	Column	Not Available
	Special 3-Speed RPO M13	Floor With Boot	Console
	Overdrive RPO M10	Column	Not Available
155-hp Turbo-Thrift 250	4-Speed RPO M20 (V8 Only)	Floor With Boot	Console
200-hp Turbo-Fire 307	Powerglide RPO M35	Column	Console With Floor Shift
250-hp Turbo-Fire 327	Std 3-Speed (250-hp & 275-hp Only)	Column	Not Available
	Special 3-Speed RPO M13	Floor With Boot	Console
275-hp Turbo-Fire 327	4-Speed RPO M20	Floor With Boot	Console
	4-Speed C.R. RPO M21 (325-hp Only)	Floor With Boot	Console
325-hp Turbo-Fire 327	Powerglide RPO M35 (250-hp & 275-hp Only)	Column	Console With Floor Shift
325-hp Turbo-Jet 396	Special 3-Speed	Floor With Boot	Console
	4-Speed RPO M20	Floor With Boot	Console
	4-Speed C.R. RPO M21 (350-hp & 375-hp Only)	Floor With Boot	Console
350-hp Turbo-Jet 396	4-Speed HD C.R. RPO M22 (375-hp Only)	Floor With Boot	Console
375-hp Turbo-Jet 396	Powerglide RPO M35 (325-hp Only)	Column	Console With Floor Shift
	Turbo Hydra-Matic RPO M40 (325-hp & 350-hp Only)	Column	Console With Floor Shift

## CHEVELLE POWER TEAMS (STANDARD ENGINES)

Engine, Transmission and Rear Axle Combinations\*

ENGINES		TRANSMISSION Std or Optional	MODEL APPLICATION	REAR AXLE RATIOS*							
Option Number	Description			Without Air Cond				With Air Conditioning			
				Std	Optional			Std	Optional		
			Econ	Perf	Spec		Econ	Perf	Spec		
Std on Series 131-133-135 and Model 13735	140-hp Turbo-Thrift 230 6-Cylinder 230-cu-in displacement Single-barrel carburetor 9.5:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed—Std	All	3.36	3.08	3.55	3.70	3.36	—	3.55	3.70
		Special 3-Speed—M13	All	3.36	3.08	3.55	3.70	3.36	—	3.55	3.70
		Overdrive—M10	All	3.70	—	—	—	3.70	—	—	—
		Powerglide—M35	All Except Wagons	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		Powerglide—M35	All Wagons	3.36	3.08	3.55	3.70	3.36	—	3.55	3.70
Std on Series 132-134-136 and Model 13835	200-hp Turbo-Fire 307 8-Cylinder 307-cu-in displacement 2-barrel carburetor 9.00:1 compression ratio Hydraulic valve lifters Single exhaust	3-Speed—Std	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		Special 3-Speed—M13	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		4-Speed Wide-Range—M20	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		Overdrive—M10	All	3.70	—	—	—	3.70	—	—	—
		Powerglide—M35	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
Std on Models 13837 13867	325-hp Turbo-Jet 396 8-Cylinder 396-cu-in displacement Regular camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Dual exhaust	Special 3-Speed—Std	All	3.31	3.07	3.55	3.73 or 4.10	3.07	—	—	—
		4-Speed Wide-Range—M20	All	3.31	3.07	3.55	3.73 or 4.10	3.07	—	—	—
		Powerglide—M35	All	3.07	2.73	3.31	3.55 or 3.73 or 4.10	3.07	—	—	—
		Turbo Hydra-Matic—M40	All	3.07	2.73	3.31	3.31	3.07	—	—	—

\* All ratios available as Positraction. (4.10:1, 4.56:1 and 4.88:1 available as Positraction only). See ordering information on page 16.

# CHEVELLE POWER TEAMS (Optional Engines)

## Engine, Transmission and Rear Axle Combinations

ENGINES		TRANSMISSION Std or Optional	MODEL APPLICATION	REAR AXLE RATIOS*							
				Without Air Cond				With Air Conditioning			
				Std	Optional			Std	Optional		
Econ	Perf	Spec	Econ		Perf	Spec					
<b>L22</b> on Series 131-133- 135 and Model 13735	<b>155-hp Turbo-Thrift 250 6-Cylinder</b> 250-cu-in displacement Single-barrel carburetor 8.5:1 compression ratio Hydraulic valve lifters Single exhaust	<b>3-Speed—Std</b>	All Except Wagons	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
			All Wagons	3.36	3.08	3.55	3.70	3.36	—	3.55	3.70
		<b>Special 3-Speed—M13</b>	All Except Wagons	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
			All Wagons	3.36	3.08	3.55	3.70	3.36	—	3.55	3.70
		<b>Overdrive—M10</b>	All	3.70	—	—	—	3.70	—	—	—
		<b>Powerglide—M35</b>	All Except Wagons	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		All Wagons	3.36	3.08	3.55	3.70	3.36	—	3.55	3.70	
<b>L73</b> on Series 132-134- 136 and Model 13835	<b>250-hp Turbo-Fire 327 8-Cylinder</b> 327-cu-in displacement Regular camshaft 4-barrel carburetor 8.75:1 compression ratio Hydraulic valve lifters Single exhaust	<b>3-Speed—Std</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		<b>Special 3-Speed—M13</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		<b>4-Speed Wide-Range—M20</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		<b>Powerglide—M35</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
<b>L30</b> on Series 132-134- 136 and Model 13835	<b>275-hp Turbo-Fire 327 8-Cylinder</b> 327-cu-in displacement Regular camshaft 4-barrel carburetor 10.0:1 compression ratio Hydraulic valve lifters Single exhaust	<b>3-Speed—Std</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		<b>Special 3-Speed—M13</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
		<b>4-Speed Wide-Range—M20</b>	All	3.07	2.73	3.31	3.55 or 3.73	3.31	—	3.55	3.73
		<b>Powerglide—M35</b>	All	3.08	2.73	3.36	3.55 or 3.70	3.36	—	3.55	3.70
<b>L79</b> on Series 132-134- 136 and Model 13835	<b>325-hp Turbo-Fire 327 8-Cylinder</b> 327-cu-in displacement High-lift camshaft 4-barrel carburetor 11.0:1 compression ratio Hydraulic valve lifters Dual exhaust	<b>Special 3-Speed—M13</b>	All	3.31	3.07	3.55	3.73	3.31	—	3.55	3.73
		<b>4-Speed Wide-Range—M20</b>	All	3.31	3.07	3.55	3.73	3.31	—	3.55	3.73
		<b>4-Speed Close-Ratio—M21</b>	All	3.31	3.07	3.55	3.73 4.10 4.56 4.88	3.31	—	3.55	3.73
<b>L34</b> on Models 13837 13867	<b>350-hp Turbo-Jet 396 8-Cylinder</b> 396-cu-in displacement High-lift camshaft 4-barrel carburetor 10.25:1 compression ratio Hydraulic valve lifters Dual exhaust	<b>Special 3-Speed—Std</b>	All	3.55	3.31	3.73	4.10	3.07	—	—	—
		<b>4-Speed Wide-Range—M20</b>	All	3.55	3.31	3.73	4.10	3.07	—	—	—
		<b>4-Speed Close-Ratio—M21</b>	All	3.55	3.31	3.73	3.07 4.10 4.56 4.88	3.07	—	—	—
		<b>Powerglide—M35</b>	All	3.31	3.07	3.55	3.73 or 4.10	3.07	—	—	—
		<b>Turbo Hydra-Matic—M40</b>	All	3.31	3.07	3.55	3.73 4.10 4.56 4.88	3.07	—	—	—
<b>L78</b> on Models 13837 13867	<b>375-hp Turbo-Jet 396 8-Cylinder</b> 396-cu-in displacement Special camshaft 4-barrel carburetor 11.0:1 compression ratio Mechanical valve lifters Dual exhaust	<b>Special 3-Speed—Std</b>	All	3.55	3.31	3.73	4.10	<i>Air Conditioning Not Available</i>			
		<b>4-Speed Wide-Range—M20</b>	All	3.55	3.31	3.73	4.10				
		<b>4-Speed Close-Ratio—M21</b>	All	3.55	3.31	3.73	3.07 4.10 4.56 4.88				
		<b>4-Speed HD Close-Ratio—M22</b>	All	3.55	3.31	3.73	3.07 4.10 4.56 4.88				

\*All ratios available as Positraction. (4.10:1, 4.56:1 and 4.88:1 available as Positraction only). See ordering information on page 16.

# CHEVELLE

## INTERIOR SELECTION CHART

TYPE OF SEAT	Material	Extra Cost	INTERIOR TRIM COLOR AVAILABILITY								
			Black	Blue	Saddle	Gold	Teal	Parchment/Black	Gray Green	Red	Turquoise

### CONCOURS ESTATE WAGON

Full-Width Bench	Vinyl	No	E	B	J							T
------------------	-------	----	---	---	---	--	--	--	--	--	--	---

### SS 396 SPORT COUPE

Full-Width Bench	Vinyl	No	E			G	X	K				
Optional Strato-Bucket (RPO A51)	Vinyl	Yes	E	B		G	X	K		D		

### SS 396 CONVERTIBLE

Full-Width Bench	Vinyl	No	E			G	X			D		
Optional Strato-Bucket (RPO A51)	Vinyl	Yes	E	B		G	X	K		D		

### MALIBU SPORT COUPE

Full-Width Bench	Cloth	No	E	B		G			R			
Full-Width Bench	Vinyl	Yes	L			P	X	K				
Optional Strato-Bucket (RPO A51)	Vinyl	Yes	E	B		G	X	K		D		

### MALIBU SPORT SEDAN

Full-Width Bench	Cloth	No	E	B		G			R			
Full-Width Bench	Vinyl	Yes	L			P	X					
Optional Full-Width Bench (RPO ZJ6) Concours	Deluxe Cloth	Yes	E	B		G			R			

### MALIBU 4-DOOR SEDAN

Full-Width Bench	Cloth	No	E	B		G			R			
Full-Width Bench	Vinyl	Yes	L									

### MALIBU WAGON

Full-Width Bench	Vinyl	No	E	B	J							T
------------------	-------	----	---	---	---	--	--	--	--	--	--	---

### MALIBU CONVERTIBLE

Full-Width Bench	Vinyl	No	E			G	X			D		
Optional Strato-Bucket (RPO A51)	Vinyl	Yes	E	B		G	X	K		D		

### 300 DELUXE SEDAN AND COUPES

Full-Width Bench	Cloth	No	E	B		G						
Full-Width Bench	Vinyl	Yes	L			*P						

### NOMAD CUSTOM WAGON

Full-Width Bench	Vinyl	No	E	B	J							
------------------	-------	----	---	---	---	--	--	--	--	--	--	--

### 300 COUPE

Full-Width Bench	Vinyl	No	E	B		G						
------------------	-------	----	---	---	--	---	--	--	--	--	--	--

### NOMAD WAGON

Full-Width Bench	Vinyl	No	E	B	J							
------------------	-------	----	---	---	---	--	--	--	--	--	--	--

\*Fleet and Taxicab-Type Trim. (Not available on Sport Coupe models). **Black** - Carpet, Instrument Panel & Steering Wheel only

# CHEVELLE

**PLEASE NOTE:** The exterior and interior combinations shown in the chart below have been approved as the only combinations that would be attractive to the average customer. Orders for combinations other than those approved will be returned to dealers for written confirmation unless the original order carries a notation in the special instruction section to the effect that the color and trim selection has been checked and is definitely desired.

INVOICE INTERIOR TRIM IDENTIFICATION	
Black	750 761 762 763 764 765 766 768
Blue	770 771 772 773 774 776 777
Saddle	780 782 783 799
Gold	752 754 756 778 779 780 784
Teal	755 757
Gray Green	753 791
Parch./Black	793 794
Red	795 796
Turquoise	785

## EXTERIOR SELECTION CHART

INTERIOR TRIM	CODE	EXTERIOR COLOR AVAILABILITY									
		AA	CC	DD	EE	FF	LL	TT	DC	ED	DE
<b>BLACK</b>	<b>E or L</b>	ALL SOLID COLORS & GT									
<b>PARCHMENT</b>	<b>K</b>	ALL SOLID COLORS									
<b>BLUE</b>	<b>B</b>	AA	CC	DD	EE	FF	LL	TT	DC	ED	DE
<b>GOLD</b>	<b>G or P</b>	AA	CC	GG	HH	PP	TT	VV	YY	GT	
<b>GRAY-GREEN</b>	<b>R</b>	AA	CC	EE	GG	HH	LL	PP	TT	VV	YY
<b>RED</b>	<b>D</b>	AA	CC	NN	RR	TT					
<b>SADDLE</b>	<b>J</b>	AA	CC	GG	HH	NN	PP	TT	VV	YY	
<b>TURQUOISE</b>	<b>T</b>	AA	CC	KK	TT						
<b>TEAL</b>	<b>X</b>	AA	CC	EE	FF	LL	TT	LF			

SOLID		♦ TWO-TONE	
EXTERIOR COLOR	EXTERIOR CODE	EXTERIOR COLOR	EXTERIOR CODE
TUXEDO BLACK	AA	ERMINE WHITE—Upper	DC
ERMINE WHITE	CC	GROTTO BLUE—Lower	
GROTTO BLUE (Med)	DD	GROTTO BLUE—Upper	ED
FATHOM BLUE (Dk)	EE	FATHOM BLUE—Lower	
ISLAND TEAL (Med)	FF	FATHOM BLUE—Upper	DE
ASH GOLD	GG	GROTTO BLUE—Lower	
GRECIAN GREEN (Med)	HH	PALOMINO IVORY—Upper	GT
TRIPOLI TURQUOISE	KK	ASH GOLD—Lower	
TEAL BLUE (Dk)	LL	ISLAND TEAL—Upper	LF
CORDOVAN MAROON	NN	TEAL BLUE—Lower	
SEAFROST GREEN	PP		
MATADOR RED	RR		
PALOMINO IVORY	TT		
SEQUOIA GREEN (Dk)	VV		
BUTTERNUT YELLOW	YY		

♦Note: Two-Tone Exterior not available on Wagons or Convertible.

# OPTIONAL EQUIPMENT INDEX

## Option Identification System For Chevelle

Option Number	Description	Option Number	Description	Option Number	Description
A01	Glass, tinted—all windows	J50	Brakes, power	P65	Tires, 7.75-14/2-ply (4-ply rating) Original Equipment Blackwall
A31	Window, power	J52	Brakes, power disc	PA2	Wheel cover, mag-spoke
A33	Window, tailgate, power	K02	Fan, radiator	P75	Tires, 8.25-14/2-ply (4-ply rating) Original Equipment Blackwall
A39	Belt, seat, frt & rear custom deluxe	K30	Speed & cruise control	P77	Tires, 8.25-14/2-ply (4-ply rating) Original Equipment Whitewall
A51	Seat, Strato-bucket	K76	Generator, 61-amp heavy-duty	PQ6	Tires, 8.25-14/2-ply (4-ply rating) Special Nylon Blackwall
A81	Head restraint—strato type	K79	Generator, 42-amp	PQ7	Tires, 8.25-14/2-ply (4-ply rating) Special Nylon Whitewall
A82	Head restraint—full-width seat	KD5	Ventilation, HD closed engine positive	PR2	Tires, 8.25-14/4-ply (8-ply rating) Special Service Blackwall
A85	Belt, shoulder, custom deluxe	L22	Engine, 155-hp Turbo-Thrift 250-cu-in I6	PR3	Tires, 8.25-14/4-ply (8-ply rating) Special Service Whitewall
AS1	Belt, shoulder—front	L30	Engine, 275-hp Turbo-Fire 327-cu-in V8	PW7	Tires, F70-14/2-ply (4-ply rating) Special White Stripe
AS4	Belt, shoulder—rear custom deluxe	L34	Engine, 350-hp Turbo-Jet 396-cu-in V8	PW8	Tires, F70-14/2-ply (4-ply rating) Special Red Stripe
AS5	Belt, shoulder—rear	L73	Engine, 250-hp Turbo-Fire 327-cu-in V8	T60	Battery, HD
*B37	Mats, floor	L78	Engine, 375-hp Turbo-Jet 396-cu-in V8	U03	Horn, tri-volume
B55	Seat cushion, extra-thick foam	L79	Engine, 325-hp Turbo-Fire 327-cu-in V8	U14	Instrumentation, special
B84	Molding, body side	M01	Clutch, HD	U15	Speed warning indicator
B90	Molding, side window	M10	Transmission, overdrive	*U35	Clock, electric
*B93	Guard, door edge	M13	Transmission, Special 3-speed	U46	Light monitoring system
C051	Top, convertible—white	M20	Transmission, 4-speed wide-range	U57	Stereo tape system
C052	Top, convertible—black	M21	Transmission, 4-speed close-ratio	U63	Radio, pushbutton AM
C054	Top, convertible—blue	M22	Transmission, 4-speed HD	U69	Radio, AM/FM
C06	Top, power convertible	M35	Transmission, Powerglide	U73	Antenna, rear
C081	Roof cover, vinyl—white	M40	Transmission, Turbo Hydra-Matic	U79	Radio, Stereo
C082	Roof cover, vinyl—black	N10	Exhaust, dual	U80	Speaker, rear
C24	Windshield wipers, concealed	N30	Steering wheel, deluxe	V01	Radiator, HD
††C50	Defroster, rear window	N33	Steering wheel, Comfortilt	*V31	Guard, bumper front
C51	Air deflector, rear window	N34	Steering wheel, Sports-styled	*V32	Guard, bumper rear
C60	Air conditioning	N40	Steering, power	V55	Carrier, roof
††D33	Mirror, remote control, outside rear	N95	Wheel cover, simulated wire	ZJ6	Concours Sedan
D55	Console	N96	Wheel cover, mag-style	ZJ7	Wheels, Rally
D96	Striping, accent	P01	Wheel cover, bright metal	ZJ9	Lighting, auxiliary
F40	Suspension, special front & rear	P58	Tires, 7.35-14/2-ply (4-ply rating) Original Equipment Whitewall	ZK3	Custom deluxe front & rear seat & front shoulder belts
G66	Shock absorber, rear—Superlift	P62	Tires, 7.75-14/2-ply (4-ply rating) Original Equipment Whitewall		
G75	Axle, rear 3.70 ratio				
G76	Axle, rear 3.36 ratio				
G80	Axle, Positraction				
G92	Axle, rear 3.08 ratio				
G94	Axle, rear 3.31 ratio				
G96	Axle, rear 3.55 ratio				
G97	Axle, rear 2.73 ratio				
GT1	Axle, rear 2.56 ratio				
H01	Axle, rear 3.07 ratio				
H05	Axle, rear 3.73 ratio				

\* Group 1 ††Group 4

## Seat and shoulder belt arrangements

	Standard Type				Custom Deluxe Type			
	Seat		Shoulder		Seat		Shoulder	
	Front	Rear	Front	Rear	Front	Rear	Front	Rear
Coupes, Sedans & Wagons	Std (3)	Std (3)	Std (2)	AS5 (2)	ZK3 (3)	ZK3 (3)	ZK3 (2)	AS4 (2)
2-Door Hardtops w/Bench Seat w/Bucket Seats	Std (3)	Std (3)	Std (2)	AS5 (2)	ZK3 (3)	ZK3 (3)	ZK3 (2)	AS4 (2)
	Std (2)	Std (3)	Std (2)	AS5 (2)	ZK3 (2)	ZK3 (3)	ZK3 (2)	AS4 (2)
Convertibles w/Bench Seat w/Bucket Seats	Std (3)	Std (3)	AS1 (2)	AS5 (2)	A39 (3)	A39 (3)	A85 (2)	AS4 (2)
	Std (2)	Std (3)	AS1 (2)	AS5 (2)	A39 (2)	A39 (3)	A85 (2)	AS4 (2)

Figures in ( ) are number of sets included.

"Std" means included in base price of vehicle.

Standard Type available in 4 colors to harmonize with Interior Trim.

Custom Deluxe Type available in 8 colors to harmonize with Interior Trim.

# AMA Specifications—Passenger Car

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 below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	CAR NAME <b>CHEVELLE</b>	
MAILING ADDRESS	MODEL YEAR 1968	ISSUED: 10-15-67 REVISED (e)

**NOTES:**

1. The 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.

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BODY - TYPES AND STYLE NAMES -	Body type, number of passenger & style names; use manufacturer's code for series & body style.		
	230 Cu. In. L6-140 HP Standard	250 Cu. In. L6-155 HP Optional (L22)	307 Cu. In. V8-200 HP Standard
<b>300</b>			
2-Door Coupe, 5-Passenger	13127		13227
<b>300 DELUXE</b>			
2-Door Coupe, 5-Passenger	13327		13427
2-Door Sport Coupe, 5-Passenger	13337		13437
4-Door Sedan, 6-Passenger	13369		13469
2-Door Sedan Pickup, 3-Passenger	13380		13480
<b>MALIBU</b>			
4-Door Station Wagon, 2-Seat	13535		13635
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
2-Door Sedan Pickup, 3-Passenger	13580		13680
<b>NOMAD</b>			
4-Door Station Wagon, 2-Seat	13135		13235
<b>NOMAD CUSTOM</b>			
4-Door Station Wagon, 2-Seat	13335		13435
<b>CONCOURS ESTATE WAGON</b>			
4-Door Station Wagon, 2-Seat	13735		13835

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	2-Dr. Coupes		4-Dr. Sedans		Convert-ibles	Station Wagons
		Pillar	Sport	Pillar	Sport		

### WIDTH

Dimension	SAE Ref. No.	Value
Track - Front	W101	59.0
Track - Rear	W102	59.0
Maximum overall car width	W103	75.7
Body width at No. 2 pillar	W117	

### LENGTH

Dimension	SAE Ref. No.	2-Dr. Coupes	4-Dr. Sedans	Convert-ibles	Station Wagons
Body "O" to front of dash	L 30				
Wheelbase	L101	112.0	116.0	112.0	116.0
Overall car length	L103	197.1	201.1	197.1	207.1
Overhang - front	L104		37.5		
Overhang - rear	L105		47.6		53.6
Body upper structure length	L123				
Body "O" line to $\text{C}$ of rear wheel	L127	95.6	99.6	95.6	99.6
Body "O" line to w/s cowl point	L130				

### HEIGHT

Dimension	SAE Ref. No.	2-Dr. Coupes	4-Dr. Sedans	Convert-ibles	Station Wagons
Overall height	H101	52.7	53.3	53.2	55.2
Cowl height	H114	37.4	37.7	37.4	38.6
Deck height	H138				
Rocker panel - front	To ground		7.4		9.2
	From front wheel $\text{C}$	H112			
Rocker panel - rear	To ground		8.5		9.7
	From rear wheel $\text{C}$	H111			
Windshield slope angle	H122				

### GROUND CLEARANCE

Dimension	SAE Ref. No.	Value
Bumper to ground - front	H102	
Bumper to ground - rear	H104	
Angle of approach	H106	25
Angle of departure	H107	15
Ramp breakover angle	H147	10
Min. running clearance (Specify)	H156	4.8 (exhaust system to ground)

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	2-Dr. Coupes		4-Dr. Sedans		Convertibles	Station Wagons
		Pillar	Sport	Pillar	Sport		

## FRONT COMPARTMENT

Effective head room	H61	37.8	37.4	38.2		38.3	38.1
Max. eff. leg room - accelerator	L34	42.4		42.7			
H Point to Heel point	H30			8.1			
H Point travel	L17			4.8			
Shoulder room	W 3	58.1		58.3		58.1	58.3
Hip room	W 5	59.8		59.6			
Upper body opening to ground	H50	49.0	49.2	49.0	49.6	49.2	49.7

## REAR COMPARTMENT

H Point couple distance	L50		30.6	32.8		30.6	32.8
Effective head room	H63		36.4	37.1		36.7	38.3
Min. effective leg room	L51		32.2	34.7		32.2	34.8
H Point to Heel point	H31	10.0	9.9	10.5		9.9	10.6
Min. knee room	L48						
Rear Compartment room	L 3		24.0	25.9		24.0	26.1
Shoulder room	W 4		56.8	57.5		47.6	57.4
room	W 6	58.5	58.3	59.6		49.5	59.4
Upper body opening to ground	H51	--		48.7	49.2	--	49.6

## LUGGAGE COMPARTMENT

Usable luggage capacity	V 1		12.8	12.6	10.0	--
Liftover height	H195					
Position of spare tire storage						
Method of holding lid open						

## STATION WAGON - THIRD SEAT

Shoulder Room	W85					
Hip room	W86					NOT
Effective leg room	L86					
Effective head room	H86					AVAILABLE
Seat facing direction						

## STATION WAGON - CARGO SPACE

Cargo length at floor - front seat	L202			90.9	
Cargo length at belt - front seat	L204			79.9	
Cargo width - wheelbase	W201			44.5	
Opening width at belt	W204			49.5	
Maximum cargo height	H201			31.6	
Rear opening height	H202			28.5	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2			84.0 (add 10.0 cu. ft. (except Nomad) for under floor compartment)	



# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## POWER TEAMS

(Indicate whether standard or optional)

MODEL # AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO ** (Std. first) (Indicate A/C ratio)*				
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		A	B	C	D	
All Models  Sedans & Coupes  Sta. Wags & Pickups	230 Stan- dard	One: 1-bbl down- draft	8.5:1	140 @ 4400	220 @ 1600	3-Speed (2.85:1 low) and H.D.3-Spd* (2.86:1 low)	Base	3.36	3.08	3.55	3.70
							A/C	3.36	--	3.55	3.70
						Overdrive*	Base	3.70	--	--	--
							A/C	3.70	--	--	--
						Power-* glide	Base	3.08	2.73	3.36	3.55
							A/C	3.36	--	3.55	3.70
A/C	Base	3.36	3.08	3.55	3.70						
	A/C	3.36	--	3.55	3.70						
Sedans & Coupes  Sta. Wgs & Pickups  All Models  Sedans & Coupes  Sta. Wgs & Pickups	250 Opt. (L22)	One; 1-bbl down- draft	8.5:1	155 @ 4200	235 @ 1600	3-Speed (2.85:1 low) and H.D.3-Spd* (2.86:1 low)	Base	3.08	2.73	3.36	3.55
							A/C	3.36	--	3.55	3.70
						Overdrive*	Base	3.70	--	--	--
							A/C	3.70	--	--	--
						Power-* glide	Base	3.08	2.73	3.36	3.55
							A/C	3.36	--	3.55	3.70
A/C	Base	3.36	3.08	3.55	3.70						
	A/C	3.36	--	3.55	3.70						
All Models	307 Stan- dard	One; 2-bbl down- draft	9.00:1	200 @ 4600	300 @ 2400	3-Speed (2.85:1 low) H.D.3-Spd* (2.86:1 low)	Base	3.08	2.73	3.36	3.55
							A/C	3.36	--	3.55	3.70
						4-Speed* (2.85:1 low)	Base	3.70	--	--	--
							A/C	3.70	--	--	--
						Power-* glide	Base	3.08	2.73	3.36	3.55
							A/C	3.36	--	3.55	3.70
A/C	Base	3.08	2.73	3.36	3.55						
	A/C	3.36	--	3.55	3.70						
A - Standard											
B - Economy											
C - Performance											
D - Special											

\* - Optional

\*\* - Positraction Axle Ratios available in combinations as shown

# - Excludes "SS 396" Models.

## AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (*)
			13100-300; 13500-700			13200-400 13600 & 13835
MODEL		230 Cu. In. L-6 (Std)	250 Cu. In. L-6 (L22)	307 Cu. In. V-8 (Std)		

## ENGINE - GENERAL

Type, no. cyls., valve arr.	In-line 6 OHV		90° OHV V-8
Bore and stroke (nominal)	3.875 x 3.25	3.875 x 3.53	3.875 x 3.25
Piston displacement, cu. in.	230	250	307
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
Compres. ratio (nominal)	8.5:1		9.00:1
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°37'		4°46'
Taxable horsepower	36.0		48.0
Diag <sup>2</sup> xNo. Cyl. 2.5			
Publishing max. bhp* @ eng. RPM	140 @ 4400	155 @ 4200	200 @ 4600
Publishing max. torque* (lb. ft. @ RPM)	220 @ 1600	235 @ 1600	300 @ 2400
Re- mended fuel res. - premium	Regular		

## ENGINE - PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat, notched head, slipper skirt		
Weight (piston only) oz.	20.32	24.16	26.32
Clearance (limits)	Top land	.0345-.0435	.0215-.0305
	Skirt	Top	.0005-.0011 (a)
		Bottom	--
Ring groove depth	No. 1 ring	.2153-.2218	.2113-.2178
	No. 2 ring	.2153-.2218	.2113-.2178
	No. 3 ring	.2093-.2158	.2053-.2118
	No. 4 ring	None	

\* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

(a) - Measured 2.44 from top of piston

(b) - Measured 1.675 from top of piston

## AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (•)
			13100-300; 13500-700			13200-400 13600 & 13835
MODEL	230 Cu. In. L-6 (Std)		250 Cu. In. L-6 (L22)	307 Cu. In. V-8 (Std)		

## 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.	None		
Compres- sion	Description - material, coating, etc.	Cast alloy iron; inside bevel tapered face; barrel face with no bevel on upper ring for 250 & 307 cu.in.engine Flash chrome plate-upper; Wear resistant coating-lower		
	Width	(a)	(b)	(c)
	Gap	.010-.020		
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails-steel, chrome plated OD; Expander-stainless steel		
	Width	.1870-.1890 (assembled)		
	Gap	.015-.055		
Expanders	In oil ring assembly			

## ENGINE - PISTON PINS

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

## ENGINE - CONNECTING RODS

Material	Drop forged steel		
Weight (oz.)	12.50		20.80
Length (center to center)	5.695-5.705		
Bearing	Material & Type	Copper lead alloy or sintered copper Nickel backed babbitt on steel	
	Overall length	.807	
	Clearance (limits)	.0007-.0027	
	End play	.009-.013	

- (a) Upper .0775-.0780; lower .0770-.0775  
 (b) Upper .0628-.0633; lower .0623-.0633  
 (c) Upper .0775-.0780; lower .0770-.0780

# AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (*)
			13100-300; 13500-700			13200-400 13600 & 13835
MODEL			230 Cu. In. L-6 (Std)		250 Cu. In. L-6 (L22)	307 Cu. In. V-8 (Std)

## ENGINE - CRANKSHAFT

Material		Cast nodular iron		
Vibration damper type		Rubber mounted inertia		
End thrust taken by bearing (No.)		7	5	
Crankshaft end play		.002-.006		
Main bearing	Material & type		Steel with backed insert (Selected bearing material-copper lead alloy or premium aluminum-for intended operation or application)	
	Clearance		.0003-.0029 (a)	
	Journal dia. and bearing overall length	No. 1	2.3004 x .752	2.4502 x .752
		No. 2	2.3004 x .752	2.4505 x .752
		No. 3	2.3004 x .752	2.4505 x .752
		No. 4	2.3004 x .752	2.4505 x .752
		No. 5	2.3004 x .752	2.4507 x 1.177
		No. 6	2.3004 x .752	None
No. 7		2.3004 x .760	None	
Dir. & amt. cyl. offset		None		
Crankpin journal diameter		1.999-2.000	2.099-2.100	

## ENGINE - CAMSHAFT

Location		Above and to right of crankshaft	In block above crk/shft	
Material		Cast alloy iron		
Bearings	Material	Steel backed babbitt		
	Number	4	5	
Type of Drive	Gear or chain		Gear	
	Crankshaft gear or sprocket material		Steel	
	Camshaft gear or sprocket material		Bakelite and fabric composition with steel hub	
	Timing chain	No. of links	None	46
		Width	None	.740
Pitch		None	.500	

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.75:1	1.50:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	

(Continued)

- (a) - No 1 .0008-.0020  
 No 2, 3 & 4 .0008-.0024  
 No 5 .0015-.0031

## AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (e)
			13100-300; 13500-700			13200-400 13600 & 13835
MODEL	230 Cu. in. L-6 (Std)		250 Cu. in. L-6 (L22)	307 Cu. in. V-8 (Std)		

## ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	28°	
		Closes (°ABC)	48°	72°	
		Duration - deg.	244°	280°	
	Exhaust	Opens (°BBC)	46°30'	78°	
		Closes (°ATC)	17°30'	30°	
		Duration - deg.	244°	288°	
Valve opening overlap		33°30'	58°		
Intake	Material		Alloy steel		
	Overall length		4.902-4.922		
	Actual overall head dia.		1.715-1.725		
	Angle of seat & face		46° (seat) 45° (face)		
	Seat insert material		None		
	Stem diameter		.3410-.3417		
	Stem to guide clearance		.0010-.0027		
	Lift (@ zero lash)		.3317	.3880	.3900
	Outer spring press. & length	Valve closed (lb.@ in.)	56-64 @ 1.66		76-84@1.70
		Valve open (lb.@ in.)	180-192 @ 1.27		194-206 @ 1.25
	Inner spring press. & length	Valve closed (lb.@ in.)	None		Spring damper
		Valve open (lb.@ in.)	None		Spring damper
	Exhaust	Material		High alloy steel-aluminized face on 307 Cu. In.	
		Overall length		4.913-4.933	
Actual overall head dia.		1.495-1.505			
Angle of seat & face		46° (seat) 45° (face)			
Seat insert material		None			
Stem diameter		.3410-.3417			
Stem to guide clearance		.0017-.0027			
Lift (@ zero lash)		.3317	.3880	.4100	
Outer spring press. & length		Valve closed (lb.@ in.)	56-64 @ 1.66		76-84 @ 1.70
		Valve open (lb.@ in.)	180-192 @ 1.27		194-206 @ 1.25
Inner spring press. & length		Valve closed (lb.@ in.)	None		Spring damper
		Valve open (lb.@ in.)	None		Spring damper

## ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure	
	Connecting rods	Pressure	
	Piston pins	Splash	
	Camshaft bearings	Pressure	
	Tappets	Pressure	
	Timing gear or chain	Nozzle	(a)
	Cylinder walls	Splash	Press. jet cross sprayed

(a) Centrifugally oiled from camshaft bearings

(Continued)

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13100-300; 13500-700 13200-400  
 13600 & 13835  
 MODEL 230 Cu. In. L-6 (Std) | 250 Cu. In. L-6 (L22) | 307 Cu. In. V-8 (Std)

## ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	50-65 PSI @ 2000 RPM (bench test-no flow conditions)
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)	32° and above - SAE 20W or SAE 10W-30 0°F to 32°F* - SAE 10W or SAE 10W-30 Below 0°F - SAE 5W or SAE 5W-20 *(SAE 5W-30 can be used at temperatures below freezing)
Engine Service Reqmt. (MM, MS, etc.)	MS or DG

## ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Single with crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow	
Exhaust pipe dia. (O.D., wall thick.)	Branch	None
	Main	2.00 x .057-.071
Tail pipe dia. (O.D. & wall thickness)	1.875 x .062-.076	

## ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system
	Optional	None
Make and model	AC Spark Plug: 230 & 250 Cu. In. (6424191); 307 Cu. In. (6424251)	
	Location	Rear of rocker cover
Control Unit	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
	Control method (variable orifice, fixed orifice, other)	Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner
	Flame arrestor (screen, check valve, other)	Screen

(a) laminated

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/1967 REVISED (\*)

	230 Cu. In.	250 Cu. In.	307 Cu. In.
MODEL	Manual   Auto	Manual   Auto	Manual   Auto

## ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		MANUAL TRANSMISSION-Air injection reactor equipment AUTOMATIC TRANSMISSION-Controlled combustion system						
Air Injection Pump#	Type	Semi-articulated vane type						
	Displacement	19.3						
	Drive ratio	1.15:1						
	Drive type	Crankshaft pulley						
	Relief valve (type)	Diverter valve separate from pump						
	Filter (describe)	Centrifugal air cleaner						
Air Injection System#	Air distribution (head, manifold, etc.)	Head			Manifold			
	Point of entry	Exhaust ports						
	Injection tube I.D.	.2565						
	Check valve type	Pressure (plate type)						
	Backfire protection (type)	Diverter Valve						
Carburetor	Make	Rochester						
	Model	7028017	7028014	7028017	7028014	7028101	7028110	
	Barrel size	1.69		1.69		1.44		
	Idle speed	Drive	--	500	--	500	--	600
		Neutral	700	--	700	--	700	--
	Idle A/F mixture	Not specified						
Aux. Adv. Systems (type)	None							
Distributor	Make	Delco-Remy						
	Model	1110436	1110433	1110439	1110399	1111257		
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	1000		900		1000	
		Intermed. points deg. @ rpm	21@2100	17@2100	21@1950	17@1950	10@1600	
		Max. deg. @ rpm	36@4600	32@4600	32@4200	28@4300	28@4300	
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	7.00		7.00		6.00	
		Intermed. points deg. @ in. Hg	None					
		Max. deg. @ in.	23 @ 16		23 @ 16		15 @ 12	
Vacuum Source	Carburetor							
Timing - Crank degrees @ rpm (a)	TDC	4BTC	TDC	4BTC	2BTC			
Cooling System (describe changes)	None							
Exhaust System (describe changes)	None							

\* - Used with manual transmission only  
(a) - At idle

# AMA Specifications—Passenger Car

NAME OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (e)
MODEL		13100-300; 13500-700			13200-400	
		230 Cu. In. L-6 (Std)			250 Cu. In. L-6 (L22)	
					13600 & 13835	

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.)	20 (approximately)	
Fuel Tank	Filler location	Behind hinged rear license plate *	
Fuel Pump	Type (elec. or mech.)	Mechanical	
Fuel Pump	Locations	Lower right front of engine	
Fuel Pump	Pressure range	3.50-4.50 PSI	5.00-6.50 PSI
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and paper filter in carburetor inlet	
Fuel Filter	Locations	Automatic	
Carburetor	Choke type	Exhaust	
	Intake manifold heat control (exhaust or water)	Oil-wetted paper	
	Air cleaner type	Standard	None
	Air cleaner type	Optional	None
Carburetor	Idle speed (spec. neutral or drive)	Manual	700 (neutral)
		Automatic	700 (neutral)
		Automatic	600 (drive)
Carburetor	Idle A/F mix.	Not specified	

### CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
13100-300	230	3-Speed	Rochester	7028017(a)	One; single barrel	1.69
		Powerglide	Rochester	7028014		
13500-700	250	3-Speed	Rochester	7028017(a)		
		Powerglide	Rochester	7028014		
13200-400 13600-13835	307	3-Speed & 4-Speed	Rochester	7028101(b)	One; two barrel	1.44
		Powerglide	Rochester	7028110(c)		
(a) 7028015 with Air Conditioning (b) 7028103 with Air Conditioning (c) 7028112 with Air Conditioning						
* Left rear Quarter panel on Station Wagons						



# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13100-300; 13500-700 13200-400  
 13600 & 13835  
 MODEL 230 Cu. In. L-6 (Std) 250 Cu. In. L-6(L22) 307 Cu. In. V-8(Std)

## 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	60 @ 4400	
	Number of pumps	One	
	Drive (V-belt, other)	V-belt	
Bearing type	Permanently lubricated double row ball		
By-pass recirculation type (inter., ext.)	Internal		
Radiator core type (cellular, tube and fin, other)	Tube and center		
Cooling system capacity	With heater (qt.)	12	
	Without heater (qt.)	11	
	Opt. equipment-specify (qt.)	12	
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
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing	4-staggered	
	Diameter	17.62	
	Ratio-fan to crankshaft rev.	.949:1	
	Fan cutout type	None	
	Bearing type	Double row ball	
*Drive belts (indicate belt used by letter)	Fan	A	E
	Generator or alternator	A	E
	Water Pump	A	E
	Power Steering	B	F
	Air Conditioning	C	G
	Air Injection Pump	D	H

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←————— 38°-42° —————→										
Nominal length (SAE)	39.00	50.00	54.75	50.00	53.50	41.20	57.50	49.50			
Width	←————— .380 —————→										

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(\*)</sup>

	13100-300; 13500-700	13200-400 13600 & 13835
MODEL	230 Cu. In. L6 (Std)	250 Cu. In. L6 (L22)   307 Cu. In. V8 (Std)

## ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980032	
	Voltage Rtg. & Total Plates		12 volts - 54 plates	
	SAE Designation & Amp. Hr. Rtg.		45 amp. hr. @ 20 hr. rate	
	Location		Right side front of engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco-Remy	
	Model		1100813	1100794
	Type and rating		Diode rectified 9-37 amps	
	Output at engine idle (neutral)		13 amps	
	Ratio—Gen. to Cr/s rev.		2.46:1	
Regulator	Make		Delco-Remy	
	Model		1119515	
	Type		Vibrator	
	Cutout relay	Closing voltage generator rpm	None	
		Reverse current to open	None	
	Regu- lated	Voltage	13.8-14.8 @ 85°F	
		Current	--	
	Voltage test conditions	Temperature	Operating	
Load		3-8 amperes		
Other		None		

## ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy		
	Model		1108365	1108367	
	Rotation (drive end view)		Clockwise		
Motor control	Switch (solenoid, manual)		Solenoid		
	Starting procedure		3-Spd & 4-Spd- Place gearshift lever in neutral and depress clutch AUTOMATIC- Place control lever in N or P position INITIAL START- Press accelerator to floor & release. Turn ignition to START, release as soon as engine starts.		
	Engagement type		Positive shift solenoid		
Motor Drive	Pinion meshes (front, rear)		Rear		
	Number of teeth	Pinion	9		
		Flywheel	Manual	153	
			Auto.	153	
	Flywheel tooth face width		Manual	.4010-.4130	
		Auto.	.4010-.4130		

## AMA Specifications—Passenger Car

MAKE OF CAR		CHEVELLE		MODEL YEAR		1968		DATE ISSUED		10/15/67		REVISED (*)		
MODEL		13100-300; 13500-700		13200-400		13600 & 13800		230 Cu. In. L6 (Std)		250 Cu. In. L6 (L22)		307 Cu. In. V8 (Std)		
<b>ELECTRICAL – IGNITION SYSTEM</b>				Manual	Auto	Manual	Auto	Manual	Auto	Manual	Auto			
Type	Conventional – Std., Opt., N.A.		Standard											
	Transistorized – Std., Opt., N.A.		N.A.											
	Other (specify)		None											
Coil	Make		Delco-Remy											
	Model		1115208					1115293						
	Amps	Engine stopped	4.0											
		Engine idling	1.8											
Distributor	Make		Delco-Remy											
	Model		1110436		1110433		1110439		1110399		1111257			
	Cent'gal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	1000				900				1000			
		Intermediate points deg.@rpm	21@2100		17@2100		21@1950		17@1950		10@1600			
		Max. deg.@rpm	36@4600		32@4600		32@4200		28@4300		28@4300			
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	7.00				7.00				6.00			
		Intermediate points, deg.@in. Hg.	None											
		Max. deg. in. Hg.	23 @ 16				23 @ 16				15 @ 12			
	Breaker gap (in.)		.019											
	Cam angle (deg.)		31-34					28-32						
Breaker arm tension (oz.)		19-23												
Timing	Crankshaft deg.@rpm (a)		TDC		4BTC		TDC		4BTC		2BTC			
	Mark location		Torsional damper											
Spark Plug	Make		AC Spark Plug											
	Model		AC 46N (long reach)					AC45S						
	Thread (mm)		14											
	Tightening torque (lb. ft.)		25											
Gap		.033-.038												
Cable	Conductor type		Linen core impregnated with electrical conducting											
	Insulation type		Rubber with neoprene jacket (material)											
	Spark plug protector		Neoprene											
<b>ELECTRICAL – SUPPRESSION</b>														
Locations & type				Non-metallic high ignition cables										

(a) At idle.

# AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (a)
			13100-300; 13500-700			13200-400; 13600 & 13835
MODEL			230 Cu. In. & 250 Cu. In.			307 Cu. In. V-8 (Std)

## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Dial
	Trip odometer (yes,no)	No
Charge indicator – type		Tell-Tale
Temperature indicator – type		Tell-Tale
Oil pressure indicator – type		Tell-Tale
Fuel indicator – type		Electric gauge
Other		Refer to page 23
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	Two
	Amp draw (each)	(b) (Low note) 4.5-6.5 @ 12.5V (Hi note) 4.2-6.2 @ 12.5V

## DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	3-Speed	H. Dty (M01)*	3-Speed	4-Speed	H. Dty (M01)*	
	Chevrolet, single dry disc		Sngl. dry disc semi-centrifugal			
Type pressure plate springs	Diaphragm		Diaphragm-bent finger design			
Total spring load (lb.)	1650-1850	1900-2200	1900-2200	2100-2300	1700-1950	
of clutch driven discs	One					
Clutch facing	Material	(a)				
	Outside & inside dia.	9.12 & 6.12	10.0 & 6.0	10.0 & 6.5	10.34 & 6.5	11.0 & 6.5
	Total eff. area (sq.in.)	71.82	100.53	90.71	101.54	123.70
	Thickness	.135 each				
	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				

\* M01 - Option for heavy duty clutch (not available with 250 Cu. In.)

(a) Woven type asbestos on all 3-speed transmissions (molded asbestos on rear face of HD 230 Cu. In. engine); premium grade woven asbestos on 4-speed transmission.

(b) 131-132-133 & 13400 Models (Low note) 4.5-6.5 @ 12.5V.

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR \_\_\_\_\_ DATE ISSUED 10/15/67 REVISED <sup>(\*)</sup> \_\_\_\_\_  
 13100-300: 13500-700 13200-400: 13600 & 13835  
 MODEL \_\_\_\_\_ 230 Cu. In. & 250 Cu. In. 307 Cu. In. V-8

### DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard: Heavy Duty 3-speed optional
Manual 4-speed (std. or opt.)	NA Optional
Manual with overdrive (std. or opt.)	Optional
Automatic (std. or opt.)	Powerglide-optional

### DRIVE UNITS – MANUAL TRANS.

		3-Speed	HD 3-Spd	3-Speed	HD 3-Speed	4-Speed
Number of forward speeds		3		3		4
Transmission ratios	In first	2.85	2.86	2.85	2.41	2.85
	In second	1.68	1.72	1.68	1.59	2.02
	In third	1.00	1.00	1.00	1.00	1.35
	In fourth	--	--	--	--	1.00
	In reverse	2.95	2.86	2.95	2.41	2.85
Synchronous meshing, specify gears		All forward gears				
Shift lever location		Steering column 3-Speed Floor mounted 4-Speed				
Lubricant	Capacity (pt.)	3.5 HD 3-speed: 3 for 3 & 4-speed				
	Type recommended	Meeting Military Specs. MIL-L-2105B				
	SAE viscosity number	Summer	SAE 80			
		Winter	SAE 80			
	Extreme cold	SAE 80				

### DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		Planetary	
Manual lockout (yes, no)		Yes	
Downshift accelerator control (yes, no)		Yes	
Minimum cut-in speed		Output shaft RPM: acceleration-1440; deceleration-1100	
Gear ratio		.7	
Lubricant	Capacity (pt.) (Overdrive only)	1	
	Separate filler (yes, no)	No	
	Type recommended	Meeting Military Specs. MIL-L-2105B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
	Extreme cold	SAE 80	

# AMA Specifications—Passenger Car

MAKE OF CAR <u>CHEVELLE</u>	MODEL YEAR <u>1968</u>	DATE ISSUED <u>10/15/67</u>	REVISED (*)
MODEL		13100-300; 13500-700	13200-400 13600 & 13835
		230 Cu. In. L-6 (Std)	250 Cu. In. L-6 (L22) 307 Cu. In. V-8 (Std)

## DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Powerglide		
Type describe	Torque converter with planetary gears		
Selector location	Lever on steering column, floor mounted when used with console and optional bucket seats on Conv. & 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		
Max. upshift speed—drive range	56	56	58
Max. kickdown speed—drive range	52	52	55
Torque converter	Number of elements	3	
	Max. ratio at stall	2.10:1	
	Type of cooling (air, liquid)	Water	
	Nominal diameter	11.00	11.75
Lubricant	Capacity—refill (pt.)	6	
	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 .065 except Coupes & Convertibles 3.25 x 56.34 x .065 Coupes & Convertibles	
	Manual 4-speed trans.	N. A.	Same as 3-speed
	Overdrive transmission	Same as 3-speed	
	Automatic transmission	Same as 3-speed	

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

(Continued)

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13100-300; 13500-700  
 MODEL \_\_\_\_\_ 13200-400; 13600- & 13835

## DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750-1.1752
Universal joints	Make and Mfg. No.	Chevrolet 3841921
	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 and ring gear		
Limited Slip differential, type	Dual disc clutches		
Drive Pinion Offset	1.50		
No. of differential pinions	Two		
Pinion adjustment (shim, other)	None		
Pinion bearing adj. (shim, other)	Shim		
Wheel bearing type	Single row cylindrical		
Lubricant	Capacity (pt.)	3.5	
	Type recommended	Meeting Military Spec. MIL-L-2105-B	
	SAE vis- cosity number	Summer	SAE 80
		Winter	SAE 80
Extreme cold		SAE 80	

## AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	2.73	3.08	3.36	3.55	3.70	
No. of teeth	Pinion	15	12	11	11	10
	Ring gear	41	37	37	39	37
Ring Gear O.D.	8.125					

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

MODEL \_\_\_\_\_ 13100-300; 13500-700  
 \_\_\_\_\_ 13200-400; 13600 & 13835

## DRIVE UNITS – WHEELS

Type & material		Short spoke disc: steel
Rim (size & flange type)	Std.	14 x 5J
	Opt.	14 x 6JK
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		7.35 x 14 x 2 (4 ply rating) except station wagon 7.75 x 14 x 2 (4 ply rating) station wagon
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	26 Coupes, Sedans & Conv.: 22 St. Wagons: 24 Pickups
		Rear	28 Coupes, Sedans & Conv.: 32 St. Wagons: 32 Pickups
Rev./Mile at 50 MPH		803 (7.35 x 14 x 2): 779 (7.75 x 14 x 2)	
Optional	Size, ply rating, & ply		7.75 x 14 x 2 (4 ply rating) 7.75 x 14 x 4 (8 ply rating) F70 x 14 x 2 (4 ply rating)

## BRAKES – PARKING

Type of control		Foot pedal apply; handle release
Location of control		Below 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)	--



# AMA Specifications—Passenger Car

MAKE OF CAR Chevelle MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (\*)  
 Base 230 Cu. In. L-6 Opt. 250 Cu. In. L-6 Base 307 Cu. In. V-8  
 MODEL Standard Drum-Type | Opt. Front Disc System

## BRAKES – SERVICE

Type (drum or disc)		Drum (a)		Disc (front)			
Self adjusting (std., opt., N.A.)		Standard					
Power brake make & type (remote, int., etc.)	Std.	--		Delco-Moraine; Integral			
	Opt.	Delco-Moraine; Integral		--			
Effective area (sq. in.)*		168.9 (b)		112.9 (c)			
Gross lining area (sq. in.)**		168.9		117.4			
Swept area (sq. in.)***		268.6		332.4			
Percent brake effectiveness – front		59.0					
Drum or Disc	Diameter (nominal)	Front	9.5	Rear	11.0		
		Rear	9.5				
Disc	Type and material	Composite; Cast Iron Rim, Steel Web		Cast Iron Front Disc, Composite Rear; Cast Iron Rim, Steel Web			
	Disc (vented or solid)	--		Vented			
	No. pistons per caliper	--		4			
Wheel cylinder bore	Front	1.125		2.063			
	Rear			.9375			
Master Cylinder	Bore	1.00		1.125			
	displacement distribution	Front %	59.0		Rear %	41.0	
Disc Brk. Valve	Type (proportion, delay, metering, other)	--		Metering (front line)			
Pedal arc ratio		6.32		3.53			
Line pressure at 100 lb. pedal load		805		--			
Shoe clearance adjustment		Self-adjusting					
Brake lining	Drum or Disc		Drum (a)		Disc (front)		
	Bonded or riveted		Bonded		Riveted		
	Front Wheel	Material		(d)		(e)	
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.5 x .17		5.96 x 2.21 x .41	
			Second. or in-board	9.75 x 2.5 x .20		5.96 x 2.21 x .41	
	Segments per shoe		One		One		
	Rear Wheel	Material		(d)		(d)	
Size (length x width x thickness)		Prim. or out-board	9.01 x 2.0 x .17		9.01 x 2.0 x .17		
		Second. or in-board	9.75 x 2.0 x .20		9.75 x 2.0 x .20		
Segments per shoe		One		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) - Finned front drums for station wagon models.
- (b) - For station wagon models, 155.4.
- (c) - For station wagon models, 106.1.
- (d) - Compression molded asbestos except station wagons wet rolled asbestos.
- (e) - Wet compression molded asbestos.

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)13100-300; 13500-700  
13200-400; 13600 & 13835

## 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: Tilt achieved with universally-jointed steering shaft at base of steering wheel; 5 inch vertical travel range		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	Round 16.5; Oval 15.5 x 16.25		
	Power	Round 16.5; Oval 15.5 x 16.25		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	45.1 for 116" wheelbase; 44.7 for 112" wheelbase	
		Curb to curb (l. & r.)	41.0 for 116" wheelbase; 39.4 for 112" wheelbase	
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Outside whl. angle with inside whl. at 20°		18.6°		
Manual	Gear	Type	Semi-reversible, recirculating ball nut	
		Make	Saginaw	
		Ratios	Gear	24:1
			Overall	28:1
	No. wheel turns	5.5		
Power	Type (coaxial, linkage, etc.)		Coaxial	
	Make		Saginaw	
	Gear	Type	Same as manual	
		Ratios	Gear	17.5:1
			Overall	20.4:1
	Pump driven by		Crankshaft pulley	
	Number wheel turns		4.0	
Linkage	Type		Parellelogram	
	Location (front or rear of wheels, other)		Front of wheels	
	Drag link (trans. or longit.)		None	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		7-3/4 to 8-3/4	
	Bearings (type)	Upper	Ball stud with non-metallic bearing surfaces	
		Lower	Ball stud with non-metallic bearing surfaces	
		Thrust	None	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		N 1-1/2 to N 1/2; Pickup N 1 to O	
	Camber (deg.)		O to P1	
	Toe-in (outside track inches)		1/8 to 1/4	
Steering spindle & joint type		Forging with pad for mounting brake cylinder, spherical		
Wheel Spindle	Diameter	Inner bearing	1.2493 - 1.2498	
		Outer bearing	.7493 - .7498	
	Thread size		3/4-20 NEF-3 (modified)	
	Bearing type		Taper roller	

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13100-300, 13500-700 13200-400; 13600 & 13835  
 MODEL 230 Cu. In. & 250 Cu. In. L6 307 Cu. In. V-8

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Front stabilizer bar
Provision for brake dip control	Mounting angle of front upper control arms
Provision for acc. squat control	Geometry of rear suspension
Special provisions for car jacking	
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.)	11.70 x 3.63 108.7 x .553	11.70 x 3.63 115.6 x .564
	Spring rate (lb. per in.)	250	250
	Rate at wheel (lb. per in.)	97	97
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	HR steel .812	

## 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.)	9.00 x 5.50 90.3 x .499	9.00 x 5.50 103.8 x .522
	Spring rate (lb. per in.)	100	100
	Rate at wheel (lb. per in.)	99	99
	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—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

13100-300; 13500-700

13200-400; 13600 & 13835

MODEL \_\_\_\_\_

FRAME \_\_\_\_\_

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

All welded perimeter frame with front crossmember - rear suspension cross member and rear crossmember

**BODY - MISCELLANEOUS INFORMATION**

		2-Dr. Coupe	4-Dr. Sedan	Sport Coupe	Sport Sedan	Convert-ible	Station Wagon
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		Left front body hinge pillar					
Engine No. location		6-cyl. on crankcase RH side of engine, rear of distributor. 8-cyl. on top front of RH bank of cylinder and case.					
Theft protection - type		Shielded ignition lock terminals key removable in "OFF" position.					
Vent window control method (crank, friction pivot)	Front	Friction pivot					
	Rear	None					
Seat cushion type	Front	Formed wire and foam pad					
	Rear	Formed wire and cotton					
	3rd seat	None					
Seat back type	Front	Formed wire and foam pad					
	Rear	Formed wire and cotton					
	3rd seat	None					
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated plate					
Side glass type (i.e., curved - tempered plate)		Curved-tempered plate					
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Tempered plate					
		Curved				Flat	
Windshield glass exposed surface area		1208.7	1249.6	1208.7	1249.6	1211.8	1249.6
Side glass exposed surface area		1116.8	1197.0	1151.1	1303.6	1120.6	2419.9
Backlight glass exposed surface area		1059.4	1032.2	1059.4	1032.2	539.7	757.0
Total glass exposed surface area		3384.9	3478.8	3419.2	3585.4	2862.1	4426.5



# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

## WEIGHTS

6-Cyl. engine (230) Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
300 (13100)								
2-Door Coupe (27)	1675	1490	3165					3020
300 Deluxe (13300)								
2-Door Coupe (27)	1685	1495	3180					3035
4-Door Sedan (69)	1710	1540	3250					3105
2-Door Spt. Cpe. (37)	1695	1505	3200					3050
Malibu (13500)								
4-Door Sedan (69)	1720	1550	3270					3125
4-Door Spt. Sedan (39)	1750	1580	3330					3185
2-Door Spt. Cpe. (37)	1705	1550	3255					3070
Convertible (67)	1735	1545	3280					3135
Station Wagons (4-Door, 2-Seat)								
Nomad (13135)	1665	1850	3515					3370
Nomad Custom (13335)	1690	1870	3560					3415
Malibu (13535)	1715	1885	3600					3440
Concours (13735)	1705	1890	3595					3450
<b>Accessories &amp; Equipment Differential Weights</b>								
Power Windows			+ 24	Remarks				
Electric Folding Top			+ 9					
Air Conditioning			+ 110					
Frnt. Compt. Flr. Console			+ 16					
Power Brakes			+ 11					
Front Disc Brakes			+ 44					
250 Cu. In. L-6 Eng.			+ 15					
Overdrive Trans.			+ 28					
Powerglide Trans.			+ 4					
Power Steering			+ 29					
Heavy Duty Battery			+ 15					
Tape Player			+ 25					
Radio, AM			+ 8					
, AM/FM			+ 9					
Stereo Equip.			+ 12					

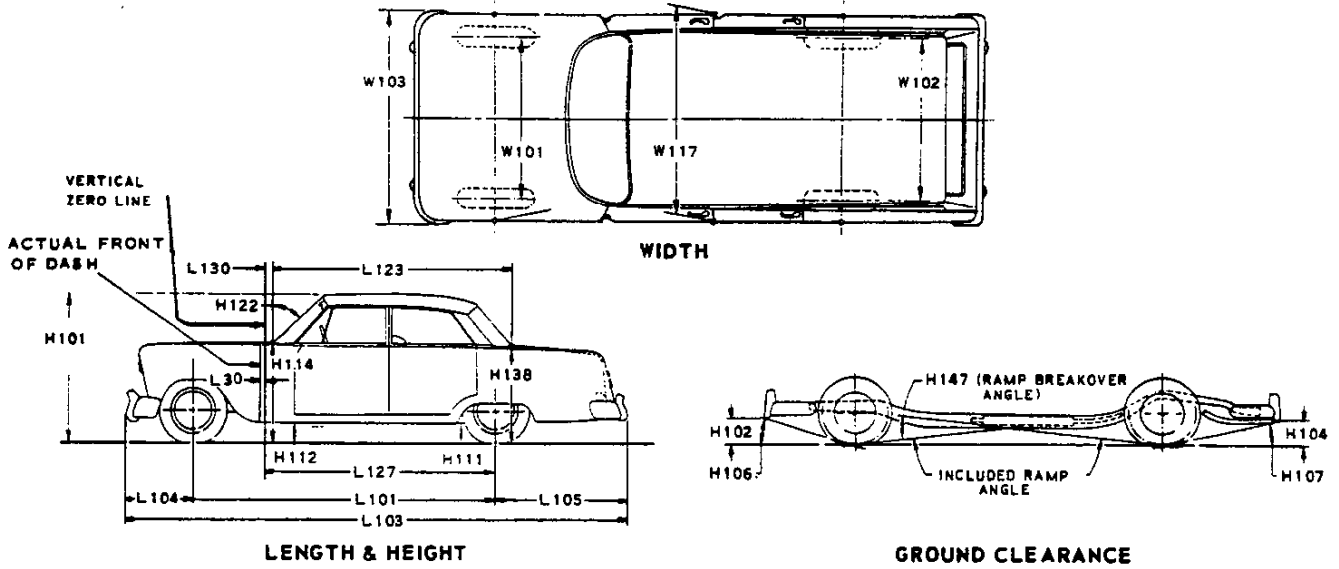


# AMA Specifications—Passenger Car

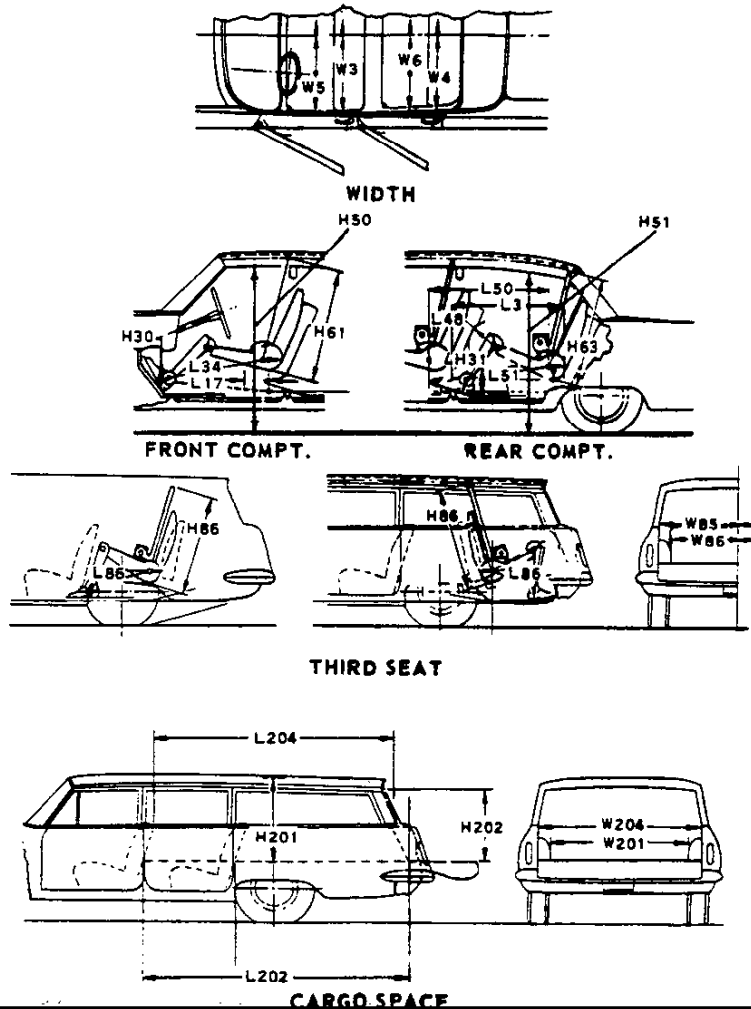
## CAR AND BODY DIMENSIONS

### 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 Cowi 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. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

## FRONT COMPARTMENT DIMENSIONS

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

## FRONT COMPARTMENT DIMENSIONS (Cont.)

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

## REAR COMPARTMENT DIMENSIONS

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

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.
- 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 wheelhouseings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-end liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

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# AMA Specifications—Passenger Car

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 below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	Chevrolet Motor Division Owner Relations Department	CAR NAME	CHEVELLE	
MAILING ADDRESS	1077 Argonaut "A" G.M. Bldg. Detroit, Michigan 48202	MODEL YEAR	1968	ISSUED: 10-15-67 REVISED (a)

**NOTES:**

1. The 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.

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OWNER RELATIONS DEPARTMENT

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**BODY - TYPES AND STYLE NAMES -**

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

	327 Cu. In.		396 Cu. In.	
	V8-275HP Optional L30	V8-325HP Optional L79	V8-325HP Standard	V8-350HP Cpt. (L34)
<b>300</b>				
2-Door Coupe, 5-Passenger	13227		--	
<b>300 DELUXE</b>				
2-Door Coupe, 5-Passenger	13427		--	
2-Door Sport Coupe, 5-Passenger	13437		--	
4-Door Sedan, 6-Passenger	13469		--	
2-Door Sedan Pickup, 3-Passenger	13480		--	
<b>MALIBU</b>				
4-Door Station Wagon, 2-Seat	13635		--	
2-Door Sport Coupe, 5-Passenger	13637		--	
4-Door Sport Sedan, 6-Passenger	13639		--	
2-Door Convertible, 5-Passenger	13667		--	
4-Door Sedan, 6-Passenger	13669		--	
2-Door Sedan Pickup, 3-Passenger	13680		--	
<b>NOMAD</b>				
4-Door Station Wagon, 2-Seat	13235		--	
<b>NOMAD CUSTOM</b>				
4-Door Station Wagon 2-Seat	13435		--	
<b>CONCOURS ESTATE WAGON</b>				
4-Door Station Wagon 2-Seat	13835		--	
<b>SS 396</b>				
2-Door Sport Coupe, 5-Passenger	--			13837
2-Door Convertible, 5-Passenger	--			13867
2-Door Sedan Pickup, 3-Passenger	--			13880

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	2-Dr. Coupes		4-Dr. Sedans		Convertibles	Station Wagons
		Pillar	Sport	Pillar	Sport		
<b>WIDTH</b>							
Track - Front	W101			59.0			
Track - Rear	W102			59.0			
Maximum overall car width	W103			75.7			
Body width at No. 2 pillar	W117						
<b>LENGTH</b>							
Body "O" to front of dash	L 30						
Wheelbase	L101	112.0		116.0		112.0	116.0
Overall car length	L103	197.1		201.1		197.1	207.1
Overhang - front	L104			37.5			
Overhang - rear	L105			47.6			53.6
Body upper structure length	L123						
Body "O" line to $\text{C}$ of rear wheel	L127	95.6		99.6		95.6	99.6
Body "O" line to w/s cowl point	L130						
<b>HEIGHT</b>							
Overall height	H101	52.7		53.3		53.2	55.2
Cowl height	H114	37.4	37.7	37.4		37.7	38.6
Deck height	H138						
Rocker panel - front	To ground			7.4			9.2
	From front wheel $\text{C}$	H112					
Rocker panel - rear	To ground			8.5			9.7
	From rear wheel $\text{C}$	H111					
Windshield slope angle	H122						
<b>GROUND CLEARANCE</b>							
Bumper to ground - front	H102						
Bumper to ground - rear	H104						
Angle of approach	H106			25			
Angle of departure	H107			15			13
Ramp breakover angle	H147			10			11
Min. running clearance (Specify)	H156	4.8 (exhaust system to ground)					5.8

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(\*)</sup>

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	2-Dr. Coupes		4-Dr. Sedans		Convert-ibles	Station Wagons
		Pillar	Sport	Pillar	Sport		
<b>FRONT COMPARTMENT</b>							
Effective head room	H61	37.8	37.4	38.2		38.3	38.1
Max. eff. leg room - accelerator	L34	42.4			42.7		
H Point to Heel point	H30				8.1		
H Point travel	L17				4.8		
Shoulder room	W 3	58.1		58.3		58.1	58.3
Hip room	W 5	59.8			59.6		
Upper body opening to ground	H50	49.0	49.2	49.0	49.6	49.2	49.7
<b>REAR COMPARTMENT</b>							
H Point couple distance	L50	30.6		32.8		30.6	32.8
Effective head room	H63	36.4		37.1		36.7	38.3
Min. effective leg room	L51	32.2		34.7		32.2	34.8
H Point to Heel point	H31	10.0	9.9	10.5		9.9	10.6
Min. knee room	L48						
Rear Compartment room	L 3	24.0		25.9		24.0	26.1
Shoulder room	W 4	56.8		57.5		47.6	57.4
Hip room	W 6	58.5	58.3	59.6		49.5	59.4
Upper body opening to ground	H51	--		48.7	49.2	--	49.6
<b>LUGGAGE COMPARTMENT</b>							
Usable luggage capacity	V 1			12.8	12.6	10.0	
Liftover height	H195						
Position of spare tire storage							
Method of holding lid open							
<b>STATION WAGON - THIRD SEAT</b>							
Shoulder Room	W85						
Hip room	W86					NOT	
Effective leg room	L86						
Effective head room	H86					AVAILABLE	
Seat facing direction							
<b>STATION WAGON - CARGO SPACE</b>							
Cargo length at floor - front seat	L202					90.9	
Cargo length at belt - front seat	L204					79.9	
Cargo width - wheelbase	W201					44.5	
Opening width at belt	W204					49.5	
Maximum cargo height	H201					31.6	
Rear opening height	H202					28.5	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	84.0 (add 10.0 cu. ft. (except Nomad) for under floor floor compartment)					

# AMA Specifications—Passenger Car

Page

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO ** (Std. first) (Indicate A/C ratio) *								
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM											
All Models Except SS 396	327 Opt. (L30)	One; 4-bbl down- draft	10.0:1	275 @ 4800	355 @ 3200	3-Speed (2.54:1 low) & H.D. 3-Spd (2.41:1 low)	Base	3.08	2.73	3.36	3.51 3.70					
							A/C	3.36	--	3.55	3.70					
						4-Speed* (2.54:1 low)	Base	3.07	2.73	3.31	3.55 3.73					
							A/C	3.31	--	3.55	3.73					
						Power-* glide	Base	3.08	2.73	3.36	3.55 3.70					
							A/C	3.36	--	3.55	3.70					
	327 Opt. (L79)	One; 4-bbl down- draft	11.0:1	325 @ 5600	355 @ 3600	H.D. 3-Spd* (2.41:1 low) & 4-Speed* (2.52:1 low)	Base	3.31	3.07	3.55	3.73					
							A/C	3.31	--	3.55	3.73					
						4-Speed* (2.20:1 low)	Base	3.31	3.07	3.55	3.73 4.10 4.56 4.88					
							A/C	3.31	--	3.55	3.73					
SS 396						396 (Std)	One; 4-bbl down- draft	10.25:1	325 @ 4800	410 @ 3200	H.D. 3-Spd* (2.41:1 low) & 4-Speed* (2.52:1 low)	Base	3.31	3.07	3.55	3.73 4.10
												Power-* glide	Base	3.07	2.73	3.31
	TrbHyd-Mtc**	Base	2.73	2.56	3.07						3.31					
	All Trans.	A/C	3.07	--	--						--					
SS 396 Only	396 Opt. (L34)	One; 4-bbl down- draft	10.25:1	350 @ 5200	415 @ 3400	H.D. 3-Spd* (2.41:1 low) & 4-Speed* (2.52:1 low)	Base	3.55	3.31	3.73	4.10					
							4-Speed* (2.20:1 low)	Base	3.55	3.31	3.73	3.07 3.73 4.10				
						Power-* glide	Base	3.31	3.07	3.55	3.73 4.10					
						TrbHyd-Mtc**	Base	3.07	2.73	3.31	--					
						All Trans.	A/C	3.07	--	--	--					

- # - 4.10, 4.56 & 4.88 also available  
 \*\* - Positraction required for 4.10:1, 4.56:1, 4.88:1 - optional for all other ratios  
 \* - Optional  
 A - Standard C - Performance  
 B - Economy D - Special

# AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (a)
MODEL	13200-400-600 & 13835 327 Cu. In. V-8 275HP-Opt. (L30)	325HP-Opt. (L79)	13837, 13867 & 13880 396 Cu. In. V-8 325HP-Std.	350HP-Opt. (L34)		

## ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V-8 OHV			
Bore and stroke (nominal)	4,001 x 3,25		4,094 x 3,76	
Piston displacement, cu. in.	327		396	
Bore spacing (C to C)	4,4		4,84	
No. system (front to rear)	L. Bank	1-3-5-7		
	R. Bank	2-4-6-8		
Firing order	1-8-4-3-6-5-7-2			
Compres. ratio (nominal)	10.0:1	11.0:1	10.25:1	
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	51.2		53.6	
Di <sup>2</sup> xNo. Cyl. 2.5				
Publishing max. bhp* @ eng. RPM	275 @ 4800	325 @ 5600	325 @ 4800	350 @ 5200
Publishing max. torque* (lb. ft. @ RPM)	355 @ 3200	355 @ 3600	410 @ 3200	415 @ 3400
Recommended fuel regular - premium	Premium			

## ENGINE—PISTONS

Material	Castalum. alloy	Al. impact extrd.	Cast aluminum alloy
Description and finish	Flat,notched head, slipper skirt	Domed head, slipper skirt	
Weight (piston only) oz.	21,60	20,64	24,80
Clearance (limits)	Top land	.0365 - .0455	
	Skirt	Top	.0305 - .0375
		Bottom	.0010 - .0016 (c)
Ring groove depth	No. 1 ring	.2217 - .2283	
	No. 2 ring	.2217 - .2283	
	No. 3 ring	.2038 - .2103	
	No. 4 ring	None	

\* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

- (a) Measured 2,24 from top of piston
- (b) Measured 2,20 from top of piston
- (c) Measured 1,95 from top of piston



# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

MODEL 13200-400-600 & 13835 | 13837, 13867 & 13880  
327 Cu. In. V-8 | 396 Cu. In. V-8  
275HP-Opt.(L30) | 325HP-Opt.(L79) | 325HP-Std. | 350HP-Opt.(L34)

## 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.	None	
Compression	Description material, coating, etc.	Upper Cast alloy iron; bbl. face on L30; moly inlay on L79 and 396 engines	
		Lower Cast alloy iron; inside bevel and tapered face (a)	
	Width	(b)	.0770 - .0775 upper & lower
	Gap	(c)	.010 - .020
Oil	Description - material, coating, etc.	Multi-piece (two rails and one spacer expander) Rails - steel, chrome plated OD Expanders - stainless steel	
	Width	.1870 - .1890 (assembled)	
	Gap	.015 - .055	.010 - .030
	Expanders		

## ENGINE - PISTON PINS

Material	Chromium steel		
Length	2.990 - 3.010	2.930 - 2.950	
Diameter	.9270 - .9273	.9895 - .9898	
Type	Locked in rod, in piston, floating, etc.	Locked in rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.00015 - .00025	.00025 - .00035
	In rod	--	
Direction & amount offset in piston	Major thrust side .055 - .065; on center for L79		

## ENGINE - CONNECTING RODS

Material	Drop forged steel		
Weight (oz.)	20.80	27.84	
Length (center to center)	5.695 - 5.705	6.130 - 6.140	
Bearing	Material & Type	Premium aluminum	
	Overall length	.797	.857
	Clearance (limits)	.0007 - .0028	.0009 - .0029
	End play	.009 - .013	.016 - .020

(a) Wear resistant coating on L30; chrome plate on L79 & 396 engines

(b) .0775 - .0780 upper; .0770 - .0775 lower

(c) .010 - .020 upper; .013 - .025 lower

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR, 1968 DATE ISSUED 10/15/67 REVISED (a)

MODEL:	13200-400-600 & 13835	13837, 13867 & 13880
	327 Cu. In. V-8	396 Cu. In. V-8
	275HP-Opt. (L30)	325HP-Opt. (L79) 325HP-Std. * 350HP-Opt. (L3)

## ENGINE - CRANKSHAFT

Material	Cst. nod. iron	Forged steel	Cst. nod. iron	Forged steel	
Vibration damper type	Rubber mounted inertia				
End thrust taken by bearing (No.)	Five				
Crankshaft end play	.002 - .006		.006 - .010		
Main bearing	Material & type	Steel with backed insert (selected bearing material - copper lead alloy or premium aluminum - for intended operation or application)			
	Clearance	(a)		(b)	
	Journal dia. and bearing overall length	No. 1	2.4502 x .752	2.7507 x .992	
		No. 2	2.4505 x .752	2.7507 x .992	
		No. 3	2.4505 x .752	2.7505 x .992	
		No. 4	2.4505 x .752	2.7505 x .992	
		No. 5	2.4507 x 1.177	2.7506 x 1.2525	
		No. 6	None		
No. 7		None			
Dir. & amt. cyl. offset	None				
Crankpin journal diameter	2.099-2.100		2.199 - 2.200		

## ENGINE - CAMSHAFT

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

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard	
Valve rotator, type (intake, exhaust)	None	
Rocker ratio	1.50:1	1.75:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero

(Continued)

(a) No. 1, .0008 - .0020; No. 2, 3 &amp; 4, .0008 - .0024; No. 5, .0015 - .0031

(b) No. 1 &amp; 2, .0010 - .0022; No. 3 &amp; 4, .0013 - .0025; No. 5, .0015 - .0031

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

MODEL 132-400-600 & 13835 13837, 13867 & 13880  
327 Cu. In. V-8 396 Cu. In. V-8  
275HP-Opt. (L30) 325HP-Opt. (L79) 325HP-Std. 350HP-Opt. (L34)

## ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°	40°	28°	40°
		Closes (°ABC)	72°	86°	78°	80°
		Duration - deg.	280°	306°	286°	300°
	Exhaust	Opens (°BBC)	78°	88°	75°	88°
		Closes (°ATC)	30°	38°	31°	32°
		Duration - deg.	288°	306°	286°	300°
	Valve opening overlap		58°	78°	59°	72°
Intake	Material		Alloy steel - Face head aluminized on 396 Cu. in.			
	Overall length		4,870 - 4,889		5,215 - 5,235	
	Actual overall head dia.		1,935-1,945	2,017 - 2,023	2,060 - 2,070	
	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		.3900	.4471	.3983	.4614
	Outer spring press. & length	Valve closed (lb.@in.)	76-84 @ 1.70		94-106 @ 1.88	
		Valve open (lb.@in.)	194-206 @ 1.25		303-327 @ 1.38	
	Inner spring press. & length	Valve closed (lb.@in.)	Spring damper			
		Valve open (lb.@in.)	Spring damper			
Exhaust	Material		High alloy steel-aluminized face, also aluminized hd. on 396			
	Overall length		4,913-4,933		5,345 - 5,365	
	Actual overall head dia.		1,495-1,505	1,595-1,605	1,715 - 1,725	
	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		.4100	.4471	.3983	.4800
	Outer spring press. & length	Valve closed (lb.@in.)	76-84 @ 1.70		94-106 @ 1.88	
		Valve open (lb.@in.)	194-206 @ 1.25		303-327 @ 1.38	
	Inner spring press. & length	Valve closed (lb.@in.)	Spring damper			
		Valve open (lb.@in.)	Spring damper			

## ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from front camshaft bearing
	Cylinder walls	Pressure jet cross sprayed

(Continued)

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 MODEL 13200-400-600 & 13835 13837, 13867 & 13880  
327 Cu. In. V-8 396 Cu. In. V-8  
275HP-Opt. (L30) 325HP-Opt. (L79) 325HP-Std. 350HP-Opt. (L34)

## ENGINE - LUBRICATION SYSTEM (cont.)

Oil pump type		Gear
Normal oil pressure (lb. engine rpm)(A)	50-65 PSI @ 2000	50-75 PSI @ 2000
Oil press. sending unit (elect. or mech.)		Electric
Type oil intake (floating, stationary)		Stationary
Oil filter system (full flow, part., other)		Full flow
Filter replacement (element, complete)		Complete
Capacity of c/case, less filter-refill (qt.)		4
Oil grade recommended (SAE viscosity and temperature range)	32° and above - SAE 20W or SAE 10W-30 0° F to 32° F* - SAE 10W or SAE 10W-30 Below 0° F - SAE 5W or SAE 5W-20 *(SAE 5W-30 can be used at temperatures below freezing)	
Engine Service Reqmt. (MM, MS, etc.)	MS or DG	

## ENGINE - EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with cross over	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One; reverse flow	Two; reverse flow
Exhaust pipe dia. (O.D., wall thick.)	Branch	(B)
	Main	2.50 x .073 - .091 laminated
Tail pipe dia. (O.D. & wall thickness)	1.875 x .062 - .076	2.25 x .062 - .076

## ENGINE - CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system
	Optional	None
Control Unit	Make and model	AC Spark Plug-327 Cu. In. (6424251); 396 Cu. In. (6424250)
	Location	Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
	Control method (variable orifice, fixed orifice, other)	Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner
	Flame arrester (screen, check valve, other)	Screen

A - Bench test - no flow conditions

B - 2.00 x .073 - .091 laminated

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVY II MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

327 Cu. In. V-8

396 Cu. In. V-8

275 HP

325 HP

325 HP

350 HP

MODEL

Manual | Auto

Manual | Auto

Manual | Auto

Manual | Auto

## ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Manual Transmission-Air injection reactor equipment Automatic Transmission-Controlled combustion system							
Air Injection Pump	Type	Semi-articulated vane type							
	Displacement	19.3							
	Drive ratio	1.15:1							
	Drive type	Crankshaft pulley							
	Relief valve (type)	(b)			Pressure (plate type)				
	Filter (describe)	Centrifugal air cleaner							
Air Injection System	Air distribution (head, manifold, etc.)	Manifold							
	Point of entry	Exhaust ports							
	Injection tube I.D.	.2565							
	Check valve type	Pressure (plate type)							
	Backfire protection (type)	Diverter valve							
Carburetor	Make	Rochester							
	Model	7028213	7028212	7028229	7028211	7028210	7028217	7028218	
	Barrel size	1.38 Primary; 2.25 Second			1.38 Primary; 2.25 Secondary				
	Idle speed	Drive	600		---	---	600	---	600
		Neutral	700	---	750	700	---	700	---
	Idle A/F mixture	Not specified							
Aux. Adv. Systems (type)	None								
Distributor	Make	Delco-Remy							
	Model	1111298	1111297	1111444	1111169	1111145	1111169		
	Cent'gal adv. in crank degrees @ eng. rpm	Start (rpm)	900		950	900	900		
		Intermed. points deg. @ rpm	22@2000	17@1900	20@1800	17@2000	21@2100	17@2000	
	Max. deg. @ rpm	34@4100	30@4100	30@4700	32@5000	36@5000	32@5000		
		Vacuum adv. in crank degrees @ eng. rpm	8.00	10.00	6.00	8.00	8.00		
	Intermed. points deg. @ in. Hg	None							
		Max. deg. @ in.	15@15.5	15@17	15@15.5	15@15.5	15@15.5		
Vacuum Source	Carburetor								
Timing - Crank degrees @ rpm (b)	TDC	4BTC	4BTC	4BTC	TDC	4BTC			
Cooling System (describe changes)	None								
Exhaust System (describe changes)	None								

(a) Diverter valve separate from pump.

(b) At idle.

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(e)</sup>

13200-400-600 & 13835      13837, 13867 & 13800  
 327 Cu. In. V-8      396 Cu. In. V-8

MODEL 275HP-Opt. (L30) | 325HP-Opt. (L79) | 325HP-Std. | 350HP-Opt. (L34)

**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.)	20 (approximately)				
	Filler location	Behind hinged rear license plate (a)				
Fuel Pump	Type (elec. or mech.)	Mechanical				
	Locations	Lower right front of engine				
	Pressure range	5.00 - 6.50 PSI		7, 25-8, 50		
Vacuum booster (std., optional, none)		None				
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank				
	Locations	and paper filter in carburetor inlet				
Carburetor	Choke type	Automatic				
	Intake manifold heat control (exhaust or water)	Exhaust				
	Air cleaner type	Oil-wetted paper				
	Idle speed (spec. neutral or drive)	Standard	700 (neutral)	750 (neutral)	700 (neutral)	700 (neutral)
		Optional	600 (drive)	NA	600 (drive)	600 (drive)
Idle A/F mix.	Not specified					

**CARBURETOR SUPPLEMENTARY INFORMATION**

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
13200	327 (L30)	3 & 4-Speed	Rochester	7028213	One; 4-bbl down-draft	1.38(Prim)
13400		Powerglide		7028212		
13600	327 (L79)	3 & 4-Speed	Rochester	7028229	One; 4-bbl down-draft	2.25(Sec)
13835		Powerglide		7028229		
13837 & 13867	396 (Std)	H. D. 3-Speed & 4-Speed	Rochester	7028211	One; 4-bbl down-draft	1.38(Prim)
		Powerglide & Turbo Hd-Mtc		7028210		
	396 (L34)	H. D. 3-Speed & 4-Speed	Rochester	7028217		
		Powerglide & Turbo Hd-Mtc		7028218		

(a) Left rear quarter panel on station wagons & pickups

# AMA Specifications—Passenger Car

<b>MAKE OF CAR</b> CHEVELLE	<b>MODEL YEAR</b> 1968	<b>DATE ISSUED</b> 10/15/67	<b>REVISED</b> (e)
<b>MODEL</b>	13200-400-600 & 13835 327 Cu. In. V-8	13837, 13867 & 13880 396 Cu. In. V-8	
	275HP-Opt. (L30)	325HP-Opt. (L79)	325HP-Std. 350HP-Opt. (L)

## ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure			
Radiator cap relief valve pressure		15 <sup>+</sup> 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	57 @ 4400	82 @ 5200		
	Number of pumps	One			
	Drive (V-belt, other)	V-belt			
	Bearing type	Permanently lubricated double row ball			
By-pass recirculation type (inter., ext.)		Internal	External		
Radiator core type (cellular, tube and fin, other)		Tube and center			
Cooling system capacity	With heater (qt.)	16	17	24	
	Without heater (qt.)	15	16	23	
	Opt. equipment-specify (qt.)	17	17	24	
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, Staggered		
	Diameter		17.62		
	Ratio-fan to crankshaft rev.		.949:1		
	Fan cutout type		None		
	Bearing type		Double row ball		
*Drive belts (indicate belt used by letter)	Fan		A	E	
	Generator or alternator		A	E	
	Water Pump		A	E	
	Power Steering		B	F	
	Air Conditioning		C	G	
	Air Injection Pump		D	H	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	← 38° - 42° →										
Nominal length (SAE)	53.50	35.00	57.50	49.50	56.20	49.50	61.00	50.50			
Width	← .380 →										

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 MODEL 13200-400-600 & 13835 13837, 13867 & 13887  
327 Cu. In. V-8 396 Cu. In. V-8  
275HP-Opt. (L30) 325HP-Opt. (L79) 325HP-Std. 350HP-Opt. (L34)

## ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980030	
	Voltage Rtg. & Total Plates		12 Volt; 66 plate	
	SAE Designation & Amp. Hr. Rtg.		61 amp. hr. @ 20 hr. rate	
	Location		Right front engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco-Remy	
	Model		1100794	
	Type and rating		Diode rectified 9-37 amps	
	Output at engine idle (neutral)		13 amps	16 amps
	Ratio—Gen. to Cr/s rev.		2.46:1	
Regulator	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

Starting Motor	Make		Delco-Remy	
	Model		1108361	1107365
	Rotation (drive end view)		Clockwise	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		3-Spd. & 4-Spd. - Place gearshift lever in neutral and depress clutch AUTOMATIC - Place control lever in N or P position INITIAL START - Press accelerator to floor and release	
Motor Drive	Engagement type		Positive shift solenoid	
	Pinion meshes (front, rear)		Rear	
	Number of teeth	Pinion	9	9
		Flywheel	Manual	153
	Auto.		153	168
	Flywheel tooth face width	Manual	4010 - 4130	4100 - 4220
Auto.		4010 - 4130	4100 - 4220	



# AMA Specifications—Passenger Car

MAKE OF CAR <b>CHEVELLE</b>		MODEL YEAR <b>1968</b>		DATE ISSUED <b>10/15/67</b>		REVISED <b>(*)</b>	
		13200-400-600 & 13835 327 Cu. In. V-8		13837, 13867 & 13837 396 Cu. In. V-8			
MODEL		275HP-Opt.(L30)   325HP-Opt.(L79)		325HP-Std		350HP-Opt.(L34)	
<b>ELECTRICAL - IGNITION SYSTEM</b>		Manual	Auto	Manual only	Manual & Auto	Auto	Manual
Type	Conventional - Std., Opt., N.A.		Standard				
	Transistorized - Std., Opt., N.A.		N. A.				
	Other (specify)		None				
Coil	Make		Delco-Remy				
	Model		1115270		1115267		
	Amps	Engine stopped	4.0				
		Engine idling	1.8				
Distributor	Make		Delco-Remy				
	Model		1111298	1111297	1111144	1111169	1111145
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	900		950	900	900
		Intermediate points deg.@rpm	22@2000	17@1900	20@1800	17@2000	21@2100
		Max. deg.@rpm	34@4100	30@4100	30@4700	32@5000	36@5000
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	8.00	10.00	6.00	8.00	
		Intermediate points, deg.@in. Hg.	None				
		Max. deg. in. Hg.	15@15.5	15@17	15@15.5	15@15.5	
	Breaker gap (in.)		.019				
	Cam angle (deg.)		28-32				
Breaker arm tension (oz.)		19-23					
Timing	Crankshaft deg.@rpm (a)	TDC	4BTC	4BTC	4BTC	TDC	
	Mark location	Torsional damper					
Spark Plug	Make		AC Spark Plug				
	Model		AC44		AC43N		
	Thread (mm)		14				
	Tightening torque (lb. ft.)		25				
	Gap		.033 - .038				
Cable	Conductor type		Linen core impregnated with electrical conducting materi				
	Insulation type		Rubber with neoprene jacket				
	Spark plug protector		Neoprene				
<b>ELECTRICAL - SUPPRESSION</b>							
Locations & type		Non-metallic high ignition cables					

(a) At idle

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(\*)</sup>  
 13200-400  
 13600 & 13835  
 327 Cu.In. V-8 (L73)

## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type Trip odometer (yes,no)	Dial No
Charge indicator – type		Tell-tale
Temperature indicator – type		Tell-tale
Oil pressure indicator – type		Tell-tale
Fuel indicator – type		Electric gauge
Other		Refer to page 23
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	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V (Hi note) 4.2-6.2 @ 12.5V

## DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		3-Speed	4-Speed	H. Duty (M01)
Type pressure plate springs		Single dry disc semi-centrifugal		
Total spring load (lb.)		2100-2300		2450-2750
No. of clutch driven discs		One		
Clutch facing	Material	Woven type asbestos		
	Outside & inside dia.	10.34 & 6.50		11.0 & 6.50
	Total eff. area (sq.in.)	101.54		123.70
	Thickness	.135 each		
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		

\* M01 - Option for heavy duty clutch

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13200-400  
 13600 & 13835  
 327 Cu.In. V-8 (L73)

## DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard: Heavy Duty 3-speed optional
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Powerglide-optional

## DRIVE UNITS – MANUAL TRANS.

		3-Speed	HD 3-Speed	4-Speed
Number of forward speeds		3		4
Transmission ratios	In first	2.54	2.41	2.54
	In second	1.50	1.59	1.80
	In third	1.00	1.00	1.44
	In fourth	--	--	1.00
	In reverse	2.63	2.41	2.54
Synchronous meshing, specify gears		All forward gears		
Shift lever location		Steering column 3-Speed Floor mounted 4-Speed		
Capacity (pt.)		3.5 HD 3-speed; 3 for 3 & 4-speed		
Type recommended		Meeting Military Specs, MIL-L2105B		
Lubricant	SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
		Extreme cold	SAE 80	

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		
Manual lockout (yes, no)		NOT
Downshift accelerator control (yes, no)		
Minimum cut-in speed		AVAILABLE
Gear ratio		
Lubricant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	Summer
		Winter
	Extreme cold	

# AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1968	DATE ISSUED	10/15/67	REVISED (*)
MODEL	13200-400 13600-800	POWERGLIDE	V8-327 (L30) & 396 Cu. In.	TURBO HYDRA-MATIC	V8-396 Cu. In.	

## 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 conv. & coupes	
List gear ratios Selector Pattern and indicate which are used in each selector position	P - Park R - 1.76 N - Neutral D - 1.76-1.00 L - 1.76	P - Park R - 2.08 N - Neutral D - 2.48-1.48-1.00 D <sub>2</sub> - 2.48 - 1.48 L <sub>1</sub> - 2.48
Max. upshift speed—drive range	67 (L30); 73 (Std); 75 (L34)	47 (1-2); 82 (2-3)
Max. kickdown speed—drive range	63 (L30); 68 (Std); 70 (L34)	36 (2-1); 76 (3-2)
Torque converter	Number of elements	3
	Max. ratio at stall	2.10
Type of cooling (air, liquid)	Water	
	Nominal diameter	11.75
Lubricant	Capacity—refill (pt.)	6.5
	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 .065 except Coupes & Convertibles 3.25 x 56.34 x .065 Coupes & Convertibles
	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)

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(a)</sup>

13200-400; 13600-800

MODEL \_\_\_\_\_

### DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750-1.1752
Universal joints	Make and Mfg. No.	Chevrolet 3841921
	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, overhang hypoid pinion and ring gear		
Limited Slip differential, type	Dual disc clutches		
Drive Pinion Offset	1.50		
No. of differential pinions	Two		
Pinion adjustment (shim, other)	None		
Pinion bearing adj. (shim, other)	Shim		
Wheel bearing type	Single row cylindrical		
Lubricant	Capacity (pt.)	4	
	Type recommended	Meeting Military Spec. MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
Extreme cold		SAE 80	

### AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	2.73	3.07	3.08	3.31	3.36	3.55	3.70	3.73	4.10	4.56	4.88
No. of teeth	Pinion	15	14	12	13	11	11	10	11	10	9
	Ring gear	41	43	37	43	37	39	37	41	41	39
Ring Gear O.D.	8.125 on 3-Spd & P. Gld with 327 Cu.In. L-30; 8.875 all others										

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

13700-400; 13600-800

MODEL \_\_\_\_\_

## DRIVE UNITS - WHEELS

Type & material		
Rim (size & flange type)	Std.	14 x 5J with V8-327; 14 x 6JK with SS 396
	Opt.	14 x 6JK except SS 396
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		7.35 x 14 x 2 (4 ply rating) (a) 7.75 x 14 x 2 (4 ply rating) (b) F70 x 14 x 2 (4 ply rating) (c)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	26 Coupes, Sedans & Conv.; 22 St. Wagons; 24 Pickup
		Rear	28 Coupes Sedans & Conv.; 32 St. Wagons; 32 Pickup
Rev./Mile at 50 MPH		803 (7.35 x 14); 779 (7.75. x 14); 791 (F70 x 14)	
Optional	Size, ply rating, & ply		7.75 x 14 x 2 (4 ply rating) (a) F70 x 14 x 2 (4 ply rating) (b) 7.75 x 14 x 4 (8 ply rating) except SS 396

## BRAKES - PARKING

Type of control		Foot pedal apply; handle release
Location of control		Below 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) Used with 327 Cu. In. (L30) all models except Sport Sedans, Convertibles & St Wagons
- (b) Used with 327 Cu. In. (L30) Sport Sedans, Convertibles & St. Wagons also with Pickup Delivery models in combination with 396 Cu. In., and all models with 327 Cu. In. (L79)
- (c) Used with SS 396 models only except pickup delivery

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 327 Cu. In. (RPO L30 & L79) & 396 Cu. In. (Base & RPO L34)  
 MODEL Standard Drum-Type | Opt. Front Disc System

## BRAKES — SERVICE

Type (drum or disc)		Drum (a)		Disc (front)		
Self adjusting (std., opt., N.A.)				Std.		
Power brake make & type (remote, int., etc.)	Std.	--		Delco-Moraine; Integral		
	Opt.	Delco-Moraine; Integral		--		
Effective area (sq. in.)*		168.9 (b)		112.9 (c)		
Gross lining area (sq. in.)**		168.9		117.4		
Swept area (sq. in.)***		268.6		332.4		
Percent brake effectiveness — front				59.0		
Drum or Disc	Diameter (nominal)	Front	9.5		11.0	
		Rear			9.5	
	Type and material		Composite; Cast Iron Rim; Steel Web		Cast iron front disc, Composite rear; cast iron rim, steel web	
	Disc (vented or solid)		--		Vented	
No. pistons per caliper		--		4		
Wheel cylinder bore	Front	1.125		2.063		
	Rear			.9375		
Master Cylinder	Bore		1.00		1.125	
	displacement distribution	Front %			59.0	
Rear %				41.0		
Disc Brk. Valve	Type (proportion, delay, metering, other)		--		Metering (front line)	
Pedal arc ratio		6.32		3.53		
Line pressure at 100 lb. pedal load		805				
Shoe clearance adjustment				Self-adjusting		
Brake lining	Drum or Disc		Drum (a)		Disc (front)	
	Bonded or riveted		Bonded		Riveted	
	Front Wheel	Material		(d)		(e)
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.5 x .17		5.96 x 2.21 x .41
			Second. or in-board	9.75 x 2.5 x 2.0		5.96 x 2.21 x .41
		Segments per shoe		One		One
	Rear Wheel	Material		(d)		(d)
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.0 x .17		9.01 x 2.0 x .17
			Second. or in-board	9.75 x 2.0 x .20		9.75 x 2.0 x .20
		Segments per shoe		One		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)-Finned front drums for following: Station Wagons; SS396 models; Models with RPO L30 and 4-speed transmission; Malibu 4-dr sport sedan and convertible models with air conditioning and RPO L30.

(b)-Models with finned front drums 155.4.

(c)-Models with models indicated in footnote (a) 106.1.

(d)-Compression molded asbestos except models indicated in footnote (a) wet rolled asbestos.

(e)-Wet compression molded asbestos.

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)

13200-400; 13600-800

## 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: Tilt achieved with universally-jointed steering shaft at base of steering wheel; 5 inch vertical turning range		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	Round 16.5; Oval 15.5 x 16.25		
	Power	45.1 for 116" wheel base; 44.7 for 112" wheelbase		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	41.0 for 116" wheelbase; 39.4 for 112" wheelbase	
		Curb to curb (l. & r.)		
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Outside whl. angle with inside whl. at 20°			18.6°	
Manual	Gear	Type	Semi-reversible, recirculating ball nut	
		Make	Saginaw	
		Ratios	Gear	24:1
			Overall	28:1
	No. wheel turns	5.5		
Power	Type (coaxial, linkage, etc.)		Coaxial	
	Make		Saginaw	
	Gear	Type	Same as manual	
		Ratios	Gear	17.5:1
			Overall	20.4:1
	Pump driven by		Crankshaft pulley	
Number wheel turns		4.0		
Linkage	Type		Parallelogram	
	Location (front or rear of wheels, other)		Front of wheels	
	Drag link (trans. or longit.)		None	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		7-3/4 to 8-3/4	
	Bearings (type)	Upper	Ball stud with non-metallic bearing surfaces	
		Lower	Ball stud with non-metallic bearing surfaces	
		Thrust	None	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		N 1-1/2 to N 1/2; Pickup & SS 396 N 1 to 0	
	Camber (deg.)		0 to PI	
	Toe-in (outside track inches)		1/8 to 1/4	
Steering spindle & joint type			Forging with pad for mounting brake cylindrical, spherical	
Wheel Spindle	Diameter	Inner bearing	1.2493 - 1.2498	
		Outer bearing	.7493 - .7498	
	Thread size		3/4-20 NEF - 3 (Modified)	
	Bearing type		Taper roller	



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MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13200-400-600 & 13835 13837, 13837, & 1  
 MODEL \_\_\_\_\_ 327 Cu. In. V-8 396 Cu. In. V-8

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Front stabilizer bar
Provision for brake dip control	Mounting angle of front upper control arms
Provision for acc. squat control	Geometry of rear suspension
Special provisions for car jacking	
Shock absorber front & rear	Direct double acting hydraulic
Type	Delco
Make	1.00
Piston dia.	
Other special features	

## SUSPENSION – FRONT

Type and description	Independent - SLA type with coil spring and concentric shock absorber and spherically jointed steering knuckle for each wheel		
Spring	Type	Coil	
	Material	Steel alloy	
	Size (coil design height & I.D. bar length x dia.)	11.70 x 3.63 118.3 x .570	11.70 x 3.63 120.7 x 6.11
	Spring rate (lb. per in.)	250	320
	Rate at wheel (lb. per in.)	97	117
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	H. R. steel .812	H. R. steel .937

## 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.)	9.00 x 5.50 103.8 x .522	9.00 x 5.50 88.7 x .531
	Spring rate (lb. per in.)	100	130
	Rate at wheel (lb. per in.)	99	126
	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—Passenger Car

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13200-400; 13600-800

MODEL \_\_\_\_\_

FRAME \_\_\_\_\_

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

All welded perimeter frame with front crossmembers, rear suspension cross member and rear cross member

BODY - MISCELLANEOUS INFORMATION		2-Dr. Coupes	4-Dr. Sedans	Sport Coupes	Sport Sedans	Convert- ibles	Station Wagons
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							Left front body hinge pillar
Engine No. location							6-Cyl. on crankcase R.H. side of engine, rear of distributor 8-Cyl. on top front of R.H. bank of cylinder and case.
Theft protection - type							Shielded ignition lock terminals-key removable in "OFF" position
Vent window control method (crank, friction pivot)	Front						Friction pivot
	Rear						None
Seat cushion type	Front						Formed wire and foam pad
	Rear						Formed wire and cotton
	3rd seat						None
Seat back type	Front						Formed wire and foam pad
	Rear						Formed wire and cotton
	3rd seat						None
Windshield glass type (i.e., single curved - laminated plate)							Curved-laminate 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		1208.7	1249.6	1208.7	1249.6	1211.8	1249.6
Side glass exposed surface area		1116.8	1197.0	1151.1	1303.6	1120.6	2419.9
Backlight glass exposed surface area		1059.4	1032.2	1059.4	1032.2	539.7	757.0
Total glass exposed surface area		3384.9	3478.8	3419.2	3585.4	2862.1	4426.5



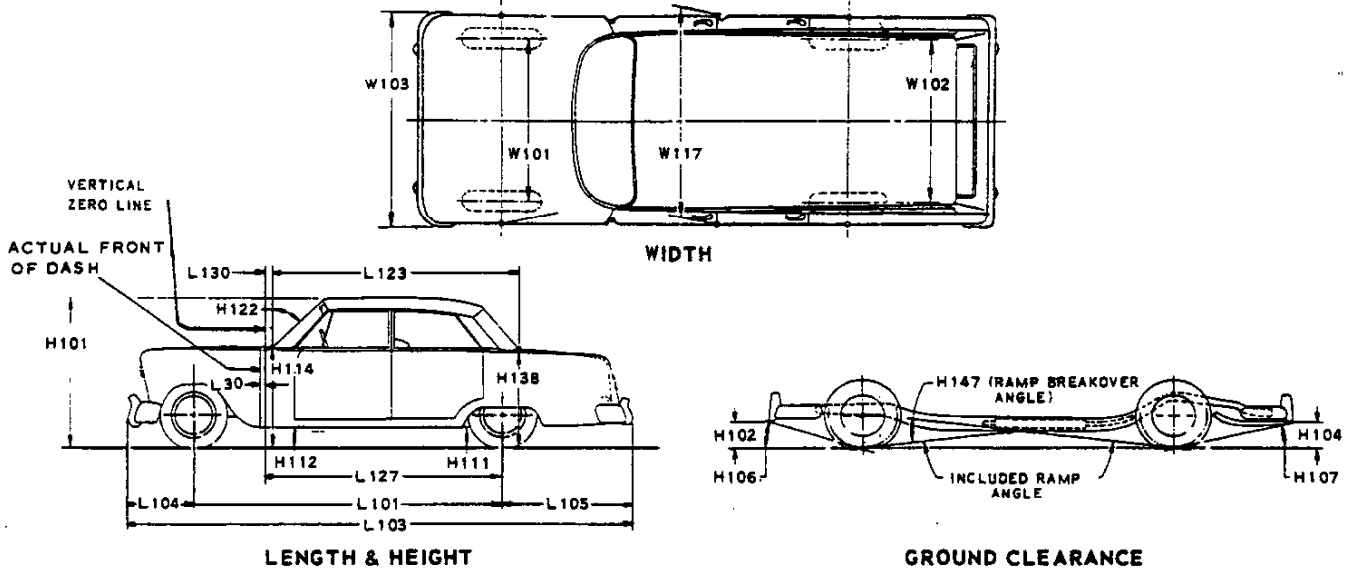


# AMA Specifications—Passenger Car

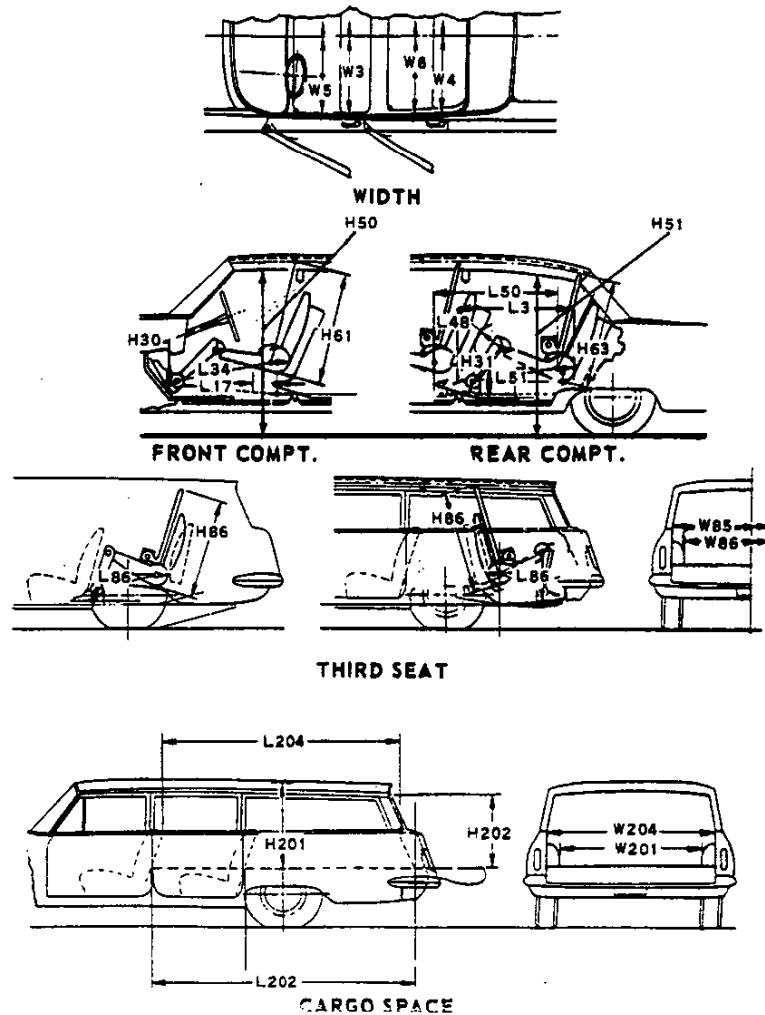
## CAR AND BODY DIMENSIONS

### 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. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.
- 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 rear of rear seat back at height tangent to the top of rear seat cushion.
- W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.
- W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.
- H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.
- 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.
- W384 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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# AMA Specifications—Passenger Car

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 below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	CHEVROLET MOTOR DIVISION Owner Relations Department	CAR NAME	CHEVELLE
MAILING ADDRESS	1077 Argonaut "A" G.M. Bldg. Detroit, Michigan 48202	MODEL YEAR	1968
		ISSUED:	10-15-67
		REVISED (●)	

**NOTES:**

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

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BODY - TYPES AND STYLE NAMES -	Body type, number of passenger & style names; use manufacturer's code for series & body style.
	327 Cu. In. V8-250 HP Optional (L73)
300	
2-Door Coupe, 5-Passenger	13227
300 DELUXE	
2-Door Coupe, 5-Passenger	13427
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MALIBU	
4-Door Station Wagon, 2-Seat	13635
2-Door Sport Coupe, 5-Passenger	13637
4-Door Sport Sedan, 6-Passenger	13639
2-Door Convertible, 5-Passenger	13667
4-Door Sedan, 6-Passenger	13669
2-Door Sedan Pickup, 3-Passenger	13680
NOMAD	
4-Door Station Wagon, 2-Seat	13235
NOMAD CUSTOM	
4-Door Station Wagon, 2-Seat	13435
CONCOURS ESTATE WAGON	
4-Door Station Wagon, 2-Seat	13835

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OWNER RELATIONS DEPARTMENT



# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	2-Dr. Coupes		4-Dr. Sedans		Convertibles	Station Wagons
		Pillar	Sport	Pillar	Sport		
<b>WIDTH</b>							
Track - Front	W101			59.0			
Track - Rear	W102			59.0			
Maximum overall car width	W103			75.7			
Body width at No. 2 pillar	W117						
<b>LENGTH</b>							
Body "O" to front of dash	L 30						
Wheelbase	L101	112.0		116.0		112.0	116.0
Overall car length	L103	197.1		201.1		197.1	207.1
Overhang - front	L104			37.5			
Overhang - rear	L105			47.6		53.6	
Body upper structure length	L123						
Body "O" line to $\text{\textcircled{C}}$ of rear wheel	L127	95.6		99.6		95.6	99.6
Body "O" line to w/s cowl point	L130						
<b>HEIGHT</b>							
Overall height	H101	52.7		53.3		53.2	55.2
Cowl height	H114	37.4	37.7	37.4		37.7	38.6
Deck height	H138						
Rocker panel - front	To ground			7.4			
	From front wheel $\text{\textcircled{C}}$	H112					9.2
Rocker panel - rear	To ground			8.5			
	From rear wheel $\text{\textcircled{C}}$	H111					9.7
Windshield slope angle	H122						
<b>GROUND CLEARANCE</b>							
Bumper to ground - front	H102						
Bumper to ground - rear	H104						
Angle of approach	H106			25			
Angle of departure	H107			15		13	
Ramp breakover angle	H147			10			
Min. running clearance (Specify)	H156			4.8 (exhaust system to ground)		5.8	

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated) - -

MODEL	SAE Ref. No.	2-Dr. Coupes		4-Dr. Sedans		Convert- ibles	Station Wagons
		Pillar	Sport	Pillar	Sport		

### FRONT COMPARTMENT

Effective head room	H61	37.8	37.4	38.2	38.3	38.1
Max. eff. leg room - accelerator	L34	42.4	42.7			
H Point to Heel point	H30			8.1		
H Point travel	L17			4.8		
Shoulder room	W 3	58.1		58.3	58.1	58.3
Hip room	W 5	59.8	59.6			
Upper body opening to ground	H50	49.0	49.2	49.0	49.6	49.2

### REAR COMPARTMENT

H Point couple distance	L50	30.6		32.8	30.6	32.8
Effective head room	H63	36.4		37.1	36.7	38.3
Min. effective leg room	L51	32.2		34.7	32.2	34.8
H Point to Heel point	H31	10.0	9.9	10.5	9.9	10.6
Min. knee room	L48					
Rear Compartment room	L 3	24.0		25.9	24.0	26.1
Shoulder room	W 4	56.8		57.5	47.6	57.4
Hip room	W 6	58.5	58.3	59.6	49.5	59.4
Upper body opening to ground	H51	--		48.7	49.2	--

### LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	--		12.8	12.6	10.0	--
Liftover height	H195						
Position of spare tire storage							
Method of holding lid open							

### STATION WAGON - THIRD SEAT

Shoulder Room	W85						
Hip room	W86			NOT			
Effective leg room	L86			AVAILABLE			
Effective head room	H86			AVAILABLE			
Seat facing direction							

### STATION WAGON - CARGO SPACE

Cargo length at floor - front seat	L202	90.9				
Cargo length at belt - front seat	L204	79.9				
Cargo width - wheelbase	W201	44.5				
Opening width at belt	W204	49.5				
Maximum cargo height	H201	31.6				
Rear opening height	H202	28.5				
Cargo volume index (cu. ft.) #4 x L204 x H201 1728	V2	84.0 (add 10.0 cu. ft. (except Nomad) for under floor compartment)				

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)*			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		A	B	C	D
13200						3-Speed (2.54:1 low)				3.55
13400	327	One;		250	335	H.D. 3-Spd* Base	3.08	2.73	3.36	3.70
13600	(Option	4-bbl	8.75:1	@	@	(2.41:1 low)				
13835	(L73)	down-draft		4800	3200	4-Spd* (2.54:1 low) & Pwr/Gld*	A / C	3.36	--	3.55 3.70

- \* - Optional
- \*\* - Positraction Axle Ratios available in combinations as shown
- A - Standard
- B - Economy
- C - Performance
- D - Special

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(a)</sup>  
 13200-400  
 13600 & 13835  
 MODEL 327 Cu.In. V-8 (L73)

## ENGINE - GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.001 x 3.25
Piston displacement, cu. in.	327
Bore spacing (℄ to ℄)	4.40
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
Compres. ratio (nominal)	8.75:1
Cylinder Head Material	Cast alloy iron
Cylinder Block Material	Cast alloy iron
Cyl. Sleeve-Wet,dry,none	None
Number of	Front Two
mtg. points	Rear One
Engine installation angle	4°46'
Taxable $\text{Dia}^2 \times \text{No. Cyl.}$ horsepower 2.5	51.2
Publishing max. bhp* @ eng. RPM	250 @ 4800
Publishing max. torque* (lb. ft. @ RPM)	335 @ 3200
Recommended fuel lar - premium	Regular

## ENGINE - PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat, notched head, slipper skirt		
Weight (piston only) oz.	21.60		
Clearance (limits)	Top land	.0365-.0455	
	Skirt	Top	.0005-.0011 (a)
		Bottom	--
Ring groove depth	No. 1 ring	.2218-.2083	
	No. 2 ring	.2218-.2283	
	No. 3 ring	.2038-.2103	
	No. 4 ring	None	

\* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

(a) - Measured 2.24 from top of piston

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13200-400  
 13600 & 13835  
 327 Cu. In. V-8 (L73)

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

## 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.	None
Compression	Description - Upper material, coating, etc.	Cast alloy iron; barrel face; chrome plated
	Lower	Cast alloy iron; inside bevel, tapered face; wear resistant ctng
	Width	Upper .0775-.0780; Lower .0770-.0775
	Gap	Upper .010-.020; Lower .013-.025
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails-steel, chrome plated OD; Expander-stainless steel
	Width	.1870-.1890 (assembled)
	Gap	.015-.055
Expanders		In oil ring assembly

## ENGINE - PISTON PINS

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

## ENGINE - CONNECTING RODS

Material	Drop forged steel	
Weight (oz.)	20.80	
Length (center to center)	5.695-5.705	
Bearing	Material & Type	Copper lead alloy or sintered copper Nickel backed babbitt on steel
	Overall length	.797
	Clearance (limits)	.0007-.0027
	End play	.009-.013

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)  
 13200-400  
 13600 & 13835  
 327 Cu.In. V-8 (L73)

## ENGINE - CRANKSHAFT

Material		Cast nodular iron	
Vibration damper type		Rubber mounted inertia	
End thrust taken by bearing (No.)		5	
Crankshaft end play		.002-.006	
Main bearing	Material & type	Steel with backed insert (Selected bearing material-copper lead alloy or premium aluminum-for intended operation or application)	
	Clearance	(a)	
	Journal dia. and bearing overall length	No. 1	2.4502 x .752
		No. 2	2.4505 x .752
		No. 3	2.4505 x .752
		No. 4	2.4505 x .752
		No. 5	2.4507 x 1.177
No. 6		None	
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.099-2.100	

## ENGINE - CAMSHAFT

Location		In block above crk/shft	
Material		Cast alloy iron	
Bearings	Material	Steel backed babbitt	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	Steel sprocket	
	Camshaft gear or sprocket material	Cast alloy iron	
	Timing chain	No. of links	46
		Width	.740
Pitch		.500	

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.50:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero

(Continued)

(a) - No 1 .0008-.0020  
 No 2, 3 & 4 .0008-.0024  
 No 5 .0015-.0031

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

13200-400

13600 &amp; 13835

327 Cu.In. V-8 (L73)

MODEL

## ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°
		Closes (°ABC)	72°
		Duration - deg.	280°
	Exhaust	Opens (°BBC)	78°
		Closes (°ATC)	30°
		Duration - deg.	288°
Valve opening overlap			58°
Intake	Material		Alloy steel
	Overall length		4.902-4.922
	Actual overall head dia.		1.715-1.725
	Angle of seat & face		46° (seat) 45° (face)
	Seat insert material		None
	Stem diameter		.3410-.3417
	Stem to guide clearance		.0010-.0027
	Lift (@ zero lash)		.3900
	Outer spring press. & length	Valve closed (lb.@in.)	76-84@1.70
		Valve open (lb.@in.)	194-206 @ 1.25
	Inner spring press. & length	Valve closed (lb.@in.)	Spring damper
		Valve open (lb.@in.)	Spring damper
	Exhaust	Material	
Overall length		4.913-4.933	
Actual overall head dia.		1.495-1.505	
Angle of seat & face		46° (seat) 45° (face)	
Seat insert material		None	
Stem diameter		.3410-.3417	
Stem to guide clearance		.0017-.0027	
Lift (@ zero lash)		.4100	
Outer spring press. & length		Valve closed (lb.@in.)	76-84 @ 1.70
		Valve open (lb.@in.)	194-206 @ 1.25
Inner spring press. & length		Valve closed (lb.@in.)	Spring damper
		Valve open (lb.@in.)	Spring damper

## ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearings
	Cylinder walls	Press jet cross sprayed

(Continued)

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

13200-400  
13600 & 13835  
327 Cu. In. V-8 (L73)

## ENGINE - LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	50-65 PSI @ 2000 RPM (bench test-no flow conditions)
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)	32° and above - SAE 20W or SAE 10W-30 0° F to 32° F* - SAE 10W or SAE 10W-30 Below 0° F - SAE 5W or SAE 5W-20 *(SAE 5W-30 can be used at temperatures below freezing)
Engine Service Reamt. (MM, MS, etc.)	MS or DG

## ENGINE - EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow
Exhaust pipe dia. (O.D., wall thick.)	Branch 2.00x.073-.091 (laminated)
	Main 2.00x.073-.091 (laminated)
Tail pipe dia. (O.D. & wall thickness)	1.875 x .062-.076

## ENGINE - CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Ventilates to induction system None
Control Unit	Make and model	AC Spark Plug; (6424251)
	Location	Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
	Control method (variable orifice, fixed orifice, other)	Variable orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner
	Flame arrestor (screen, check valve, other)	Screen



## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)MODEL 327 Cu.In.  
Manual | Auto

## ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		MANUAL TRANSMISSION-Air injection reactor equipment AUTOMATIC TRANSMISSION-Controlled combustion system		
Air Injection Pump	Type	Semi-articulated vane type		
	Displacement	19.3		
	Drive ratio	1.15:1		
	Drive type	Crankshaft pulley		
	Relief valve (type)	Diverter valve separate from pump		
Filter (describe)		Centrifugal air cleaner		
Air Injection System	Air distribution (head, manifold, etc.)	Manifold		
	Point of entry	Exhaust ports		
	Injection tube I.D.	.2565		
	Check valve type	Pressure (plate type)		
Backfire protection (type)		Diverter Valve		
Carburetor	Make	Rochester		
	Model	7028213	7028212	
	Barrel size	1.38 (Primary)	and 2.25 (Secondary)	
	Idle speed	Drive	--	600
		Neutral	700	--
Idle A/F mixture		Not specified		
Aux. Adv. Systems (type)		None		
Distributor	Make	Delco-Remy		
	Model	1111150		
	Cent'gal adv. in crank degrees @ eng. rpm	Start (rpm)	900	
		Intermed. points deg. @ rpm	15 @ 2000	
		Max. deg. @ rpm	28 @ 4200	
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	8.00	
		Intermed. points deg. @ in. Hg	None	
Max. deg. @ in.		15 @ 15.5		
Vacuum Source		Carburetor		
Timing - Crank degrees @ rpm		4BTC @ Idle		
Cooling System (describe changes)		None		
Exhaust System (describe changes)		None		

\* - Used with manual transmission only

# AMA Specifications—Passenger Car

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 13200-400  
 13600 & 13835  
 MODEL 327 Cu.In. V-8 (L73)

**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.)	20 (approximately)	
	Filler location	Behind hinged rear license plate *	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Lower right front of engine	
	Pressure range	5.00-6.50 PSI	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and	
	Locations	paper filter in carburetor inlet	
Carburetor	Choke type	Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air cleaner type	Standard	Oil-wetted paper
		Optional	None
	Idle speed (spec. neutral or drive)	Manual	700 (neutral)
Automatic		600 (drive)	
Idle A/F mix.		Not specified	

**CARBURETOR SUPPLEMENTARY INFORMATION**

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
13200-400 13600-13835	327	3-Speed & 4-Speed	Rochester	7028213	One; four barrel	1.38 (Prim) 2.25 (Sec.)
		Powerglide	Rochester	7028212		

\* Left rear Quarter panel on Station Wagons.

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 13200-400  
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 327 Cu. In. V-8 (L73)

## 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	54 @ 4400	
	Number of pumps	One	
	Drive (V-belt, other)	V-belt	
Bearing type		Permanently lubricated double row ball	
By-pass recirculation type (inter., ext.)		Internal	
Radiator core type (cellular, tube and fin, other)		Tube and center	
Cooling system capacity	With heater (qt.)	16	
	Without heater (qt.)	15	
	Opt. equipment-specify (qt.)	16	
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
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing		4-Staggered
	Diameter		17.62
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		None
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		A
	Generator or alternator		A
	Water Pump		A
	Power Steering		B
	Air Conditioning		C
		D	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V				38°	42°						
Nominal length (SAE)	53.50	35.00	57.50	49.50							
Width			.380								

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(a)</sup>  
13200-400  
13600 & 13835  
 MODEL 327 Cu.In. V-8 (L73)

## ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980030	
	Voltage Rtg. & Total Plates		12 Volts - 66 Plates	
	SAE Designation & Amp. Hr. Rtg.		61 amp. hr. @ 20 hr. rate	
	Location		Right side front of engine compartment	
Terminal grounded		Negative		
Generator or Alternator	Make		Delco-Remy	
	Model		1100794	
	Type and rating		Diode rectified 9-37 amps	
	Output at engine idle (neutral)		13 amps	
	Ratio—Gen. to Cr/s rev.		2.46:1	
Regulator	Make		Delco-Remy	
	Model		1119515	
	Type		Vibrator	
	Cutout relay	Closing voltage generator rpm	None	
		Reverse current to open	None	
	Regu- lated	Voltage	13.8-14.8 @ 85° F	
		Current	--	
	Voltage test conditions	Temperature	Operating	
Load		3-8 amperes		
Other		None		

## ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy	
	Model		1108361	
	Rotation (drive end view)		Clockwise	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		3-Spd & 4-Spd-Place gearshift lever in neutral and depress clutch/AUTOMATIC-Place control lever in N or P position. INITIAL START-Press accelerator to floor & release. Turn ignition to START, release as soon as engine starts.	
Motor Drive	Engagement type		Positive shift solenoid	
	Pinion meshes (front, rear)		Rear	
	Number of teeth	Pinion	9	
		Flywheel	Manual	153
	Auto.		153	
	Flywheel tooth face width	Manual	.4010-.4130	
Auto.		.4010-.4130		

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

MODEL \_\_\_\_\_

13200-400  
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327 Cu.In. V-8 (L73)

## ELECTRICAL - IGNITION SYSTEM

		Manual	Auto	
Type	Conventional - Std., Opt., N.A.	Standard		
	Transistorized - Std., Opt., N.A.	N.A.		
	Other (specify)	None		
Coil	Make	Delco-Remy		
	Model	1115293		
	Amps	Engine stopped	4.0	
		Engine idling	1.8	
Distributor	Make	Delco-Remy		
	Model	1111150		
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	900	
		Intermediate points deg.@rpm	15 @ 2000	
		Max. deg.@rpm	28 @ 4200	
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	8.00	
		Intermediate points, deg.@in. Hg.	None	
		Max. deg. in. Hg.	15 @ 15.5	
	Breaker gap (in.)	.019		
	Cam angle (deg.)	28-32		
Breaker arm tension (oz.)	19-23			
Timing	Crankshaft deg.@rpm	4BTC @ Idle		
	Mark location	Torsional damper		
Spark Plug	Make	AC Spark Plug		
	Model	AC44S		
	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

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(\*)</sup>  
 13200-400  
 13600 & 13835  
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## ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial
	Trip odometer (yes,no)	No
Charge indicator – type		Tell-tale
Temperature indicator – type		Tell-tale
Oil pressure indicator – type		Tell-tale
Fuel indicator – type		Electric gauge
Other		Refer to page 23
Windshield wiper	Type – Standard	Electric, Two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V (Hi note) 4.2-6.2 @ 12.5V

## DRIVE UNITS – CLUTCH (Manual Transmission)

		3-Speed	4-Speed	H. Duty (M01)
Make & type		Single dry disc semi-centrifugal		
Type pressure plate springs		Diaphragm-bent finger design		
Total spring load (lb.)		2100-2300		2450-2750
No. of clutch driven discs		One		
Clutch facing	Material	Woven type asbestos		
	Outside & inside dia.	10.34 & 6.50		11.0 & 6.50
	Total eff. area (sq.in.)	101.54		123.70
	Thickness	.135 each		
	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		

\* M01 - Option for heavy duty clutch

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(\*)</sup> 13200-400  
13600 & 13835  
327 Cu.In. V-8 (L73)

MODEL \_\_\_\_\_

## DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard; Heavy Duty 3-speed optional
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Powerglide-optional

## DRIVE UNITS – MANUAL TRANS.

		3-Speed	HD 3-Speed	4-Speed
Number of forward speeds		3		4
Transmission ratios	In first	2.54	2.41	2.54
	In second	1.50	1.59	1.80
	In third	1.00	1.00	1.44
	In fourth	--	--	1.00
	In reverse	2.63	2.41	2.54
Synchronous meshing, specify gears		All forward gears		
Shift lever location		Steering column 3-Speed Floor mounted 4-Speed		
Lubricant	Capacity (pt.)	3.5 HD 3-speed; 3 for 3 & 4-speed		
	Type recommended	Meeting Military Specs, MIL-L2105B		
	SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
Extreme cold		SAE 80		

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)	
Manual lockout (yes, no)	NOT
Downshift accelerator control (yes, no)	
Minimum cut-in speed	AVAILABLE
Gear ratio	
Lubricant	Capacity (pt.) (Overdrive only)
	Separate filler (yes, no)
	Type recommended
	SAE viscosity number
Winter	
Extreme cold	

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 13200-400  
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 MODEL 327 Cu.In. V-8 (L73)

## DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Powerglide
Type describe	Torque converter with planetary gears
Selector location	Lever on steering column, floor mounted when used with console and optional bucket seats on Conv. & coupes
List gear ratios Selector Pattern and indicate which are used in each selector position	P - Park R - 1.76 N - Neutral D - 1.76 - 1.00 L - 1.76
Max. upshift speed—drive range	58
Max. kickdown speed—drive range	55
Torque converter	Number of elements 3
	Max. ratio at stall 2.10:1
	Type of cooling (air, liquid) Water
	Nominal diameter 11.75
Lubricant	Capacity—refill (pt.) 6.5
	Type recommended A Suffix A
Special transmission features	

## D E 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 .065 except Coupes & Convertibles 3.25 x 56.34 x .065 Coupes & Convertibles
	Manual 4-speed trans. Same as 3-Speed
	Overdrive transmission - - - - -
	Automatic transmission Same as 3-Speed

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

(Continued)



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**MODEL**

**DRIVE UNITS – PROPELLER SHAFT (cont.)**

Intermediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750-1.1752
Universal joints	Make and Mfg. No.	Chevrolet 3841921
	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 and ring gear	
Limited Slip differential, type		Dual disc clutches	
Drive Pinion Offset		1.50	
No. of differential pinions		Two	
Pinion adjustment (shim, other)		None	
Pinion bearing adj. (shim, other)		Shim	
Wheel bearing type		Single row cylindrical	
Lubricant	Capacity (pt.)	3.5	
	Type recommended	Meeting Military Spec. MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

**AXLE RATIO TOOTH COMBINATIONS**

(See page 3 for axle ratio usage)

Axle ratio	2.73	3.08	3.36	3.55	3.70
No. of teeth	Pinion	15	12	11	11
	Ring gear	41	37	37	39
Ring Gear O.D.	8.125				

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### DRIVE UNITS – WHEELS

Type & material		Short spoke disc; steel	
Rim (size & flange type)	Std.	14 x 5J	
	Opt.	14 x 6JK	
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		7.35 x 14 x 2 (4 ply rating) (a)
			7.75 x 14 x 2 (4 ply rating) (b)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	26 Coupes, Sedans & Conv.; 22 St. Wagons; 24 Pickups
Rear		28 Coupes, Sedans & Conv.; 32 St. Wagons; 32 Pickups	
	Rev./Mile at 50 MPH		803 (7.35 x 14 x 2); 779 (7.75 x 14 x 2)
Optional	Size, ply rating, & ply		7.75 x 14 x 2 (4 ply rating)
			7.75 x 14 x 4 (8 ply rating)
			F70 x 14 x 2 (4 ply rating)

### BRAKES – PARKING

Type of control		Foot pedal apply; handle release	
Location of control		Below 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) Used with all models except Sport Sedan, Convertible and Station Wagon.  
 (b) Used with Sport Sedan, Convertible and Station Wagons.

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

MODEL		STANDARD	FRONT DISC (OPT)		
<b>BRAKES — SERVICE</b>					
Type (drum or disc)		Drum (a)	Disc (Front)		
Self adjusting (std., opt., N.A.)		Standard			
Power brake make & type (remote, int., etc.)	Std.	---	Delco-Moraine; Integral		
	Opt.	Delco-Moraine; Integral	---		
Effective area (sq. in.)*		168.9 (b)	112.9 (c)		
Gross lining area (sq. in.)**		168.9	117.4		
Swept area (sq. in.)***		268.6	332.4		
Percent brake effectiveness — front		59.0			
Drum or Disc	Diameter (nominal)	Front 9.5	11.0		
		Rear 9.5			
Type and material		Composite; Cast iron rim; Steel Web	Cast iron front disc; composite rear, cast iron rim; steel web		
Disc (vented or solid)		--	Vented		
No. pistons per caliper		--	4		
Wheel cylinder bore	Front	1.125	2.063		
	Rear	.9375			
Bore		1.00	1.125		
Master Cylinder displacement distribution	Front %	59.0			
	Rear %	41.0			
Disc Brk. Valve	Type (proportion, delay, metering, other)	Check valve			
Pedal arc ratio		6.32	3.53		
Line pressure at 100 lb. pedal load		805	--		
Shoe clearance adjustment		Self-adjusting			
Brake lining	Drum or Disc		Drum (a)	Disc (Front)	
	Bonded or riveted		Bonded	Riveted	
	Front Wheel	Material		(d)	(e)
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.5 x .17	5.96 x 2.21 x .41
			Second. or in-board	9.75 x 2.5 x .20	5.96 x 2.21 x .41
		Segments per shoe		One	One
	Rear Wheel	Material		(d)	(d)
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.0 x .17	9.01 x 2.00 x .17
			Second. or in-board	9.75 x 2.0 x .20	9.75 x 2.00 x .20
		Segments per shoe		One	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) Finned Front Drums base equipment on Station Wagons and Malibu Sport Sedan & Convertible
- (b) For Station Wagons, Malibu Sport Sedan & Convertibles 155.4
- (c) With models indicated in foot note (a) 106.1
- (d) Compression molded asbestos except models indicated in foot note (a) is wet rolled asbestos
- (e) Wet rolled asbestos

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13200-400;

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MODEL

## STEERING

Manual (std., opt., NA)		Standard-energy absorbing steering column	
Power (std., opt., NA)		Optional	
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt; Tilt achieved with universally-jointed steering shaft at base of steering wheel; 5 inch vertical travel range	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	Round 16.5; Oval 15.5 x 16.25	
	Power	Round 16.5; Oval 15.5 x 16.25	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	45.1 for 116" wheelbase; 44.7 for 112" wheelbase
		Curb to curb (l. & r.)	41.0 for 116" wheelbase; 39.4 for 112" wheelbase
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Outside whl. angle with inside whl. at 20°		18.6°	
Manual	Gear	Type	Semi-reversible, recirculating ball nut
		Make	Saginaw
		Ratios	24:1
	Overall	28:1	
No. wheel turns		5.5	
Power	Type (coaxial, linkage, etc.)		Coaxial
	Make		Saginaw
	Gear	Type	Same as manual
		Ratios	17.5:1
		Overall	20.4:1
	Pump driven by		Crankshaft pulley
Number wheel turns		4.0	
Linkage	Type		Parallellogram
	Location (front or rear of wheels, other)		Front of wheels
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		7-3/4 to 8-3/4
	Bearings (type)	Upper	Ball stud with non-metallic bearing surfaces
		Lower	Ball stud with non-metallic bearing surfaces
		Thrust	None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		N 1-1/2 to N 1/2; Pickup N 1 to O
	Camber (deg.)		O to P1
	Toe-in (outside track inches)		1/8 to 1/4
Steering spindle & joint type		Forging with pad for mounting brake cylinder, spherical	
Wheel Spindle	Diameter	Inner bearing	1.2493-1.2498
		Outer bearing	.7493-.7498
	Thread size		3/4-20 NEF-3 (modified)
	Bearing type		Taper roller

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 13200-400;  
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MODEL \_\_\_\_\_

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Front stabilizer bar	
Provision for brake dip control	Mounting angle of front upper control arms	
Provision for acc. squat control	Geometry of rear suspension	
Special provisions for car jacking		
Shock absorber front & rear	Type	Direct double acting hydraulic
	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.)	11.70 x 3.63 118.3 x .570
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	97
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel .937

## 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.)	9.00 x 5.50 103.8 x .522
	Spring rate (lb. per in.)	100
	Rate at wheel (lb. per in.)	99
	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—Passenger Car

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## WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
V-8 Engine (307)								
300 (13200)								
2-Door Coupe (27)	1795	1520	3315					3155
300 Deluxe (13400)								
2-Door Coupe (27)	1805	1525	3330					3170
4-Door Sedan (69)	1825	1570	3395					3240
2-Door Spt. Cpe. (37)	1810	1535	3345					3185
Malibu (13600)								
4-Door Sedan (69)	1835	1580	3415					3255
2-Door Spt. Cpe. (37)	1820	1540	3360					3205
4-Door Spt. Sedan (39)	1870	1605	3475					3315
Convertible (67)	1855	1565	3420					3260
STATION WAGONS (4-Door, 2-Seat)								
Nomad (13235)	1780	1880	3660					3500
Nomad Custom (13435)	1800	1905	3705					3545
Malibu (13635)	1815	1915	3730					3575
Concours (13835)	1820	1920	3740					3580

Accessories & Equipment Differential Weights	Remarks
327 Cu. In. V-8	250 H. P.
327 Cu. In. V-8	275 H. P.
327 Cu. In. V-8	325 H. P.
396 Cu. In. V-8	350 H. P. - SS 396 only
3-Spd. H.D. Trans.	
4-Spd. Trans.	
Dual Exhaust	
Power Windows	Radio AM - +8
Electric Folding Top	" FM - +9
Air Conditioning	Stereo Equipment +12
Front Compt. Flr. Console	
Power Brakes	
Front Disc Brakes	
Powerglide Trans	
Power Steering	
Heavy Duty Battery	
Tape Player	

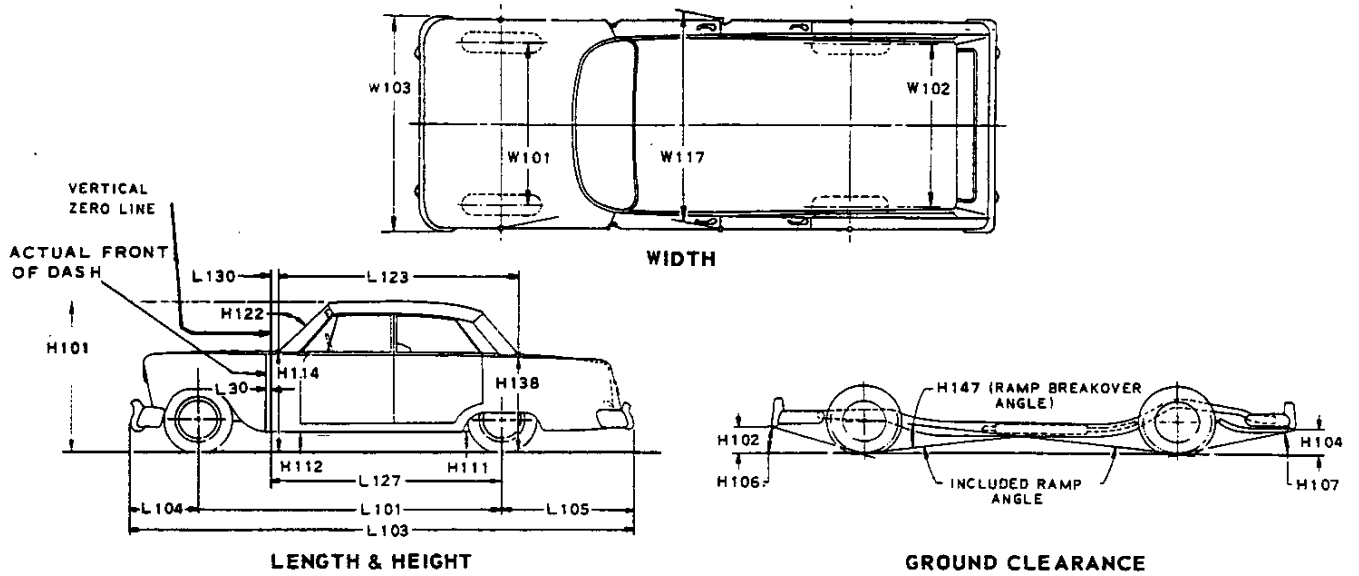


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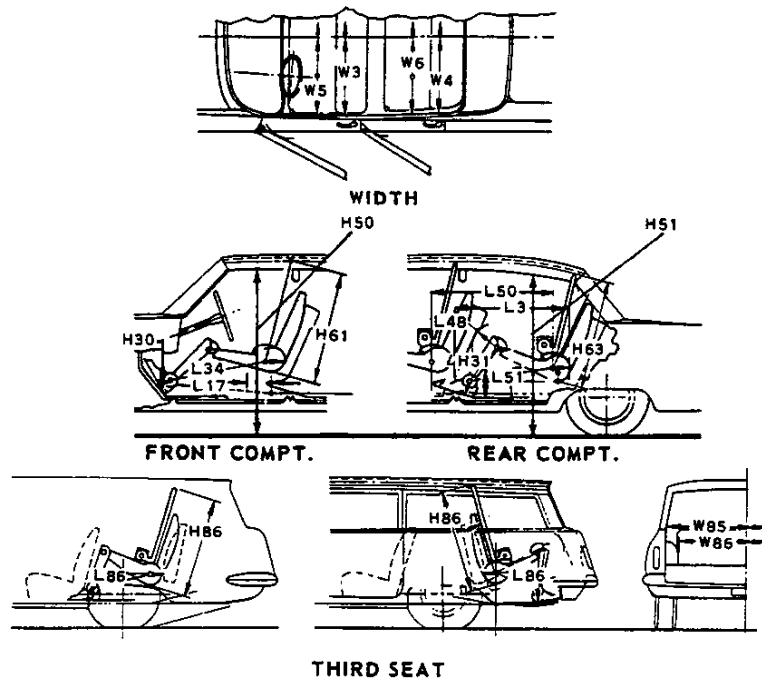
## CAR AND BODY DIMENSIONS

### KEY SHEET

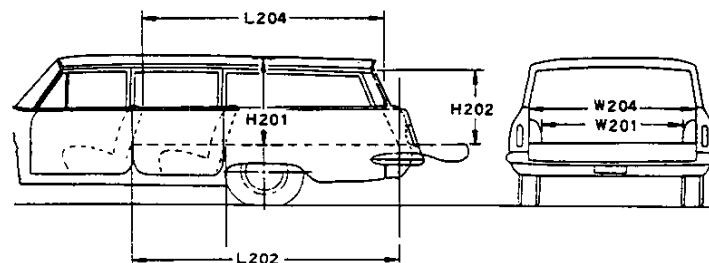
#### EXTERIOR CAR AND BODY DIMENSIONS



#### INTERIOR CAR AND BODY DIMENSIONS



#### CARGO SPACE



## 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. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

## FRONT COMPARTMENT DIMENSIONS

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

## FRONT COMPARTMENT DIMENSIONS (Cont.)

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

## REAR COMPARTMENT DIMENSIONS

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

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.
- 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 wheelhouseings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening or the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-end liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

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# AMA Specifications—Passenger Car

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 below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	<b>Chevrolet Motor Division General Motors Corporation</b>	CAR NAME	<b>CHEVELLE</b>
MAILING ADDRESS	<b>Chevrolet Owners Relation Dept. 1077 Argo "A", GM Bldg, Detroit, Mich. 48202</b>	MODEL YEAR	<b>1968</b>
		ISSUED	<b>10/15/67</b>
		REVISED (e)	

**NOTES:**

1. The 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.

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### BODY - TYPES AND STYLE NAMES -

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

	396 Cu. In. V8 - 375 HP <u>Optional (L78)</u>
SS 396	
2-Door Sport Coupe, 5-Passenger	13837
2-Door Convertible, 5-Passenger	13867
2-Door Sedan Pickup, 3-Passenger	13880

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OWNER RELATIONS DEPARTMENT

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	PICK-UP
<b>WIDTH</b>				
Track - Front	W101		59.0	
Track - Rear	W102		59.0	
Maximum overall car width	W103		75.7	
Body width at No. 2 pillar	W117			
<b>LENGTH</b>				
Body "O" to front of dash	L 30			
Wheelbase	L101	112.0		116.0
Overall car length	L103	197.1		207.1
Overhang - front	L104		37.5	
Overhang - rear	L105	47.6		53.6
Body upper structure length	L123			
Body "O" line to $\epsilon$ of rear wheel	L127	95.6		99.6
Body "O" line to w's cowl point	L130			
<b>HEIGHT</b>				
Overall height	H101	52.7	53.2	54.0
Cowl height	H114	37.4	37.7	38.7
Deck height	H138			
Rocker panel - front	To ground		7.4	8.4
	From front wheel $\epsilon$	H112		
Rocker panel - rear	To ground		8.5	9.7
	From rear wheel $\epsilon$	H111		
Windshield slope angle	H122			
<b>GROUND CLEARANCE</b>				
Bumper to ground - front	H102			
Bumper to ground - rear	H104			
Angle of approach	H106		25	
Angle of departure	H107		15	13
Ramp breakover angle	H147		10	11
Min. running clearance (Specify)	H156		4.8 (a)	6.4 (b)

(a) Exhaust system to ground

(b) Front suspension to ground

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (e)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	PICK-UP
<b>FRONT COMPARTMENT</b>				
Effective head room	H61	37.4	38.3	37.7
Max. eff. leg room - accelerator	L34	42.7		41.6
H Point to Heel point	H30		8.1	
H Point travel	L17	4.8		4.7
Shoulder room	W 3	58.1		58.3
Hip room	W 5	59.6		59.7
Upper body opening to ground	H50	49.2		49.7
<b>REAR COMPARTMENT</b>				
H Point couple distance	L50	30.6		
Effective head room	H63	36.4	36.7	
Min. effective leg room	L51	32.2		
H Point to Heel point	H31	9.9		
Min. knee room	L48			
Rear Compartment room	L 3	24.0		
Shoulder room	W 4	56.8	47.6	
Hip room	W 6	58.3	49.5	
Upper body opening to ground	H51			
<b>LUGGAGE COMPARTMENT</b>				
Usable luggage capacity	V 1		10.0	
Liftover height	H195			
Position of spare tire storage				
Method of holding lid open				
<b>STATION WAGON - THIRD SEAT</b>				
Shoulder Room	W85			
Hip room	W86			
Effective leg room	L86			
Effective head room	H86			
Seat facing direction				
<b>STATION WAGON - CARGO SPACE</b>				
Cargo length at floor - front seat	L202			
Cargo length at belt - front seat	L204			
Cargo width - wheelbase	W201			
Opening width at belt	W204			
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) W4 x L204 x H201	V2			

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (6)

**POWER TEAMS**

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO ** (Std. first) (Indicate A/C ratio) A/C not available			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		A	B	C	D
13837 13867 13880	396 Opt. (L78)	One 4-bbl down- draft	11.00:1	375 @ 5600	415 @ 3600	H. D. 3-Speed* (2.41:1 low) & 4-Speed * (2.52:1 low) 4-Speed * & 4-Speed H. D. * (2.20:1 low)	3.55	3.31	3.73	4.10 3.07 4.10 4.56 4.88
<p>* - Optional</p> <p>** - Positraction required for 4.10:1, 4.56:1 &amp; 4.88:1-available as an option for all other ratios.</p> <p>A - Standard B - Economy C - Performance D - Special</p>										

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)

13837, 13867 &amp; 13880

396 Cu. In. V-8

375 HP (Opt. L78)

MODEL

## ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V-8 OHV	
Bore and stroke (nominal)	4.094 x 3.76	
Piston displacement, cu. in.	396	
Bore spacing (C to C)	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	
Compres. ratio (nominal)	11.00:1	
Cylinder Head Material	Cast alloy iron	
Cylinder Block Material	Cast alloy iron	
Cyl. Sleeve-Wet, dry, none	None	
Number of	Front	Two
mtg. points	Rear	One
Engine installation angle	4° 46'	
Taxable horsepower	Dia <sup>2</sup> xNo. Cyl.	53.6
	2.5	
Publishing max. bhp* @ eng. RPM	375 @ 5600	
Publishing max. torque* (lb. ft. @ RPM)	415 @ 3600	
Recommended fuel regular - premium	Premium	

## ENGINE—PISTONS

Material	Aluminum impact extruded		
Description and finish	Domed head; slipper skirt		
Weight (piston only) oz.	23.12		
Clearance (limits)	Top land	.0316-.0385	
	Skirt	Top	.0036-.0044 (a)
		Bottom	
Ring groove depth	No. 1 ring	.2278-.2343	
	No. 2 ring	.2278-.2343	
	No. 3 ring	.2128-.2143	
	No. 4 ring		

\* Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

(a) Measured 2.25 from top at piston



## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)  
13837, 13867 & 13880  
396 Cu.In. V-8  
375 HP (Opt. L78)

## MODEL

## 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.	None
Compression	Description - Upper material, coating, etc.	Cast alloy iron, barrel face, molybdenum inlay
	Lower	Cast alloy iron, inside bevel and tapered face, chrome plated
	Width	.0770 - .0775
	Gap	.010 - .020
Oil	Description - material, coating, etc.	Multi-piece (Two rails and one spacer expander) Rails - steel, chrome plated OD Expanders - stainless steel
	Width	.1870 - .1890 (assembled)
	Gap	.010 - .030
Expanders		

## ENGINE - PISTON PINS

Material		Chromium steel	
Length		2.930 - 2.950	
Diameter		.9895 - .9898	
Type	Locked in rod, in piston, floating, etc.	Locked in rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.00025 - .00035	
	In rod		
Direction & amount offset in piston		On center	

## ENGINE - CONNECTING RODS

Material		High alloy steel
Weight (oz.)		24.67
Length (center to center)		6.130 - 6.140
Bearing	Material & Type	Premium aluminium
	Overall length	.857
	Clearance (limits)	.0009 - .0029
	End play	.016 - .020

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13837, 13867 & 13880

MODEL 396 Cu. In. V-8  
375 HP (Opt. L78)

## ENGINE - CRANKSHAFT

Material		Forged steel	
Vibration damper type		Rubber mounted inertia	
End thrust taken by bearing (No.)		Five	
Crankshaft end play		.006 - .010	
Main bearing	Material & type	Premium aluminum except No. 5 is sintered copper nickel backed babbitt	
	Clearance	No. 1 & 2, .0010 - .0022; No. 3 & 4, .0013 - .0025; No. 5, .0015 - .003	
	Journal dia. and bearing overall length	No. 1	2.7502 x .992
		No. 2	2.7502 x .992
		No. 3	2.7505 x .992
		No. 4	2.7505 x .992
		No. 5	2.7506 x 1.2525
No. 6	None		
No. 7	None		
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.199 - 2.200	

## ENGINE - CAMSHAFT

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

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Not available
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.75:1
Operating tappet clearance (indicate hot or cold)	Intake	.024
	Exhaust	.028

(Continued)

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)  
 13837, 13867 & 13880  
 396 Cu. In. V-8  
 375 HP (Opt. L78)

## ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	44°	
		Closes (°ABC)	92°	
		Duration - deg.	316°	
	Exhaust	Opens (°BBC)	86°	
		Closes (°ATC)	36°	
		Duration - deg.	302°	
Valve opening overlap		80°		
Intake	Material		Alloy steel, face & head aluminized	
	Overall length		5.204 - 5.224	
	Actual overall head dia.		2.185 - 2.195	
	Angle of seat & face		46° (seat) 45° (face)	
	Seat insert material		None	
	Stem diameter		.3715 - .3722	
	Stem to guide clearance		.0010 - .0027	
	Lift (@ zero lash)		.5197	
	Outer spring press. & length	Valve closed (lb. @ in.)	94 - 106 @ 1.88	
		Valve open (lb. @ in.)	303 - 327 @ 1.38	
	Inner spring press. & length	Valve closed (lb. @ in.)	Spring damper	
		Valve open (lb. @ in.)	Spring damper	
	Exhaust	Material		High alloy steel, face & head aluminized
		Overall length		5.345 - 5.365
		Actual overall head dia.		1.715 - 1.725
Angle of seat & face		46° (seat) 45° (face)		
Seat insert material		None		
Stem diameter		.3713 - .3720		
Stem to guide clearance		.0015 - .0032		
Lift (@ zero lash)		.5197		
Outer spring press. & length		Valve closed (lb. @ in.)	94 - 106 @ 1.88	
		Valve open (lb. @ in.)	303 - 327 @ 1.38	
Inner spring press. & length		Valve closed (lb. @ in.)	Spring damper	
		Valve open (lb. @ in.)	Spring damper	

## ENGINE - LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure jet cross sprayed

(Continued)

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)  
13837, 13867 & 13880  
396 Cu. In. V-8  
375 HP (Opt. L78)

## ENGINE - LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. engine rpm)	50-75 psi @ 2000 (a)
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)	Element
Capacity of c/case, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range)	32°F and above ----- SAE 20W, SAE 10W-30 0°F to 32°F* ----- SAE 10W, or SAE 10W-30 Below 0°F ----- SAE 5W or SAE 5W-20 *(SAE 5W-30 may be used at temperatures below freezing)
Engine Service Reqmt. (MM, MS, etc.)	

## ENGINE - EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two; reverse flow
Exhaust pipe dia. (O.D., wall thick.)	Branch Main
	2.50 x .073-.091 laminated
Tail pipe dia. (O.D. & wall thickness)	2.25 x .062-.076

## ENGINE - CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Ventilates to induction system --
Control Unit	Make and model	AC Spark Plug - 6424250
	Location	Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
Complete system	Control method (variable orifice, fixed orifice, other)	Fixed Orifice
	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake Manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner
	Flame arrester (screen, check valve, other)	Screen

(a) Bench test - no flow conditions

## AMA Specifications—Passenger Car

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13837, 13867 &amp; 13880

396 Cu.In. V-8

375 HP - (Opt. 178)

MODEL \_\_\_\_\_

## ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air Injection	
Air Injection Pump	Type	Semi-articulated vane type	
	Displacement	19.3 cubic inches	
	Drive ratio	1.15:1	
	Drive type	Crankshaft pulley	
	Relief valve (type)	Pressure (plate type)	
Filter (describe)		Centrifugal air cleaner	
Air Injection System	Air distribution (head, manifold, etc.)	Manifold	
	Point of entry	Exhaust ports	
	Injection tube I.D.	.2565	
	Check valve type	Pressure (plate type)	
Backfire protection (type)		Diverter valve	
Carburetor	Make	Holley	
	Model	3923289	
	Barral size	1.561 (Pr. & Sc)	
	Idle speed	750	
	Drive	- - -	
	Neutral	750	
Idle A/F-mixture			
Distributor	Aux. Adv. Systems (type)		None
	Make		Delco Remy
	Model		1111170
	Cent'gal adv. in crank degrees @ eng. rpm	Start (rpm)	900
		Intermed. points deg. @ rpm	17 @ 2000
		Max. deg. @ rpm	32 @ 5000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	7
		Intermed. points deg. @ in. Hg	None
Max. deg. @ in.		12 @ 12	
Vacuum Source		Carburetor	
Timing - Crank degrees @ rpm		4 BTDC @ Idle	
Cooling System (describe changes)		None	
Exhaust System (describe changes)		None	

# AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (\*)

13837, 13867 & 13880

396 Cu.In. V-8

375 HP (Opt. L78)

MODEL \_\_\_\_\_

**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.)	20 (approximately)
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	7.25 - 8.50
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gasoline
Fuel Filter	Locations	Tank and paper filter in carburetor inlet
Choke type		Automatic
Intake manifold heat control (exhaust or water)		Exhaust
Carburetor	Air cleaner type	Oil wetted paper element
		Standard
		Optional
Idle speed (spec. neutral or drive)	Manual	750
	Automatic	Not available
	Idle A/F mix.	Not specified

### CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
13837 13867 13880	396	3-Speed & 4-Speed	Holley	3923289	One; 4-bbl	1.561 Primary & Secondary



# AMA Specifications—Passenger Car

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13837, 13867 & 13880

396 Cu.In. V-8

375 HP (Opt. L78)

MODEL \_\_\_\_\_

## ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy #1980030	
	Voltage Rtg. & Total Plates		12 Volt-66 plate	
	SAE Designation & Amp. Hr. Rtg.		61 Amp/hr @ 20 hr rate	
	Location		Right front engine compartment	
Terminal grounded		Negative		
Generator or Alternator	Make		Delco-Remy	
	Model		1100814	
	Type and rating		Diode rectified (37 amps)	
	Output at engine idle (neutral)		16 Amps	
Ratio-Gen. to Cr/s rev.		2.46:1		
Regulator	Make		Delco-Remy	
	Model		1119515	
	Type		Vibrator	
	Cutout relay	Closing voltage generator rpm	None	
		Reverse current to open	None	
	Regu- lated	Voltage	13.8-14 @ 85°F	
		Current	--	
	Voltage test conditions	Temperature	Operating	
Load		3-8 Amperes		
Other		None		

## ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy	
	Model		#1107365	
	Rotation (drive end view)		Clockwise	
Motor control	Switch (solenoid, manual)			
	Starting procedure		3-SPD & 4-SPD- Place gearshift in neutral and depress clutch to floor. INITIAL START-Press accelerator pedal to floor, then release. Turn ignition to START & release as soon as engine	
Motor Drive	Engagement type		Positive shift solenoid /starts.	
	Pinion meshes (front, rear)		Rear	
	Number of teeth	Pinion	9	
		Flywheel	Manual	168
	Auto.		168	
Flywheel tooth face width		Manual	.4100-.4220	
		Auto.	--	



# AMA Specifications—Passenger Car

**MAKE OF CAR** CHEVELLE    **MODEL YEAR** 1968    **DATE ISSUED** 10/15/67    **REVISED** <sup>(\*)</sup>  
13837, 13867 & 13880  
**MODEL** 396 Cu. In. V-8  
375 HP (Opt. L78)

## ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.			
	Transistorized – Std., Opt., N.A.		Not Available	
	Other (specify)			
Coil	Make		Delco - Remy	
	Model		1115267	
	Amps	Engine stopped	4.0	
		Engine idling	1.8	
Distributor	Make		Delco - Remy	
	Model		1111170	
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)		900
		Intermediate points deg. @ rpm		17 @ 2000
		Max. deg. @ rpm		32 @ 5000
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)		7
		Intermediate points, deg. @ in. Hg.		None
		Max. deg. in. Hg.		12 @ 12
	Breaker gap (in.)		.019	
	Cam angle (deg.)		28° - 32°	
Breaker arm tension (oz.)		19 - 23		
Timing	Crankshaft deg. @ rpm		4 BTDC @ Idle	
	Mark location		Torsional Damper	
Spark Plug	Make		AC Spark Plug	
	Model		AC 43N	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		25	
	Gap		.037 - .038	
Cable	Conductor type		Linen core impregnated with electrical conducting mat'l	
	Insulation type		Rubber with neoprene jacket	
	Spark plug protector		Silicon	

## ELECTRICAL – SUPPRESSION

**Locations & type** Non-metallic high tension ignition cables

## AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED <sup>(a)</sup>

13837, 13867 &amp; 13880

396 Cu. In. V-8

375 HP (Opt L78)

MODEL \_\_\_\_\_

## ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial
	Trip odometer (yes, no)	No
Charge indicator - type		Tell-tale
Temperature indicator - type		Tell-tale
Oil pressure indicator - type		Tell-tale
Fuel indicator - type		Electric gage
Other		Refer to page 23
Windshield wiper	Type - Standard	Electric; two-speed
	Type - Optional	None
Windshield washer	Type - Standard	Pushbutton
	Type - Optional	
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6.2 @ 12.5V.

## DRIVE UNITS - CLUTCH (Manual Transmission)

Make & type		3-Speed & 4-Speed Chevrolet single dry disc centrifugal
Type pressure plate springs		Diaphragm, bent finger design
Total spring load (lb.)		2450-2750
No. of clutch driven discs		One
Clutch facing	Material	Premium grade woven asbestos
	Outside & inside dia.	11.0 & 6.5
	Total eff. area (sq. in.)	123.70
	Thickness	.1400 each
	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

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MODEL \_\_\_\_\_

## DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	<b>Heavy Duty 3-Spd Optional</b>
Manual 4-speed (std. or opt.)	<b>Optional</b>
Manual with overdrive (std. or opt.)	<b>Not Available</b>
Automatic (std. or opt.)	<b>Not Available</b>

## DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		3	4	4	
		HD 3-Spd	4-Spd	4-Spd	
Transmission ratios	In first	2.41	2.52	2.20	
	In second	1.59	1.88	1.64	
	In third	1.00	1.46	1.27	
	In fourth	--	1.00	1.00	
	In reverse	2.41	2.59	2.26	
Synchronous meshing, specify gears		All forward gears			
Shift lever location		Floor			
Lubricant	Capacity (pt.)	3.5	3		
	Type recommended	Meeting Military Spec. MIL-L-2105B			
	SAE viscosity number	Summer	SAE 80		
		Winter	SAE 80		
		Extreme cold	SAE 80		

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)			
Manual lockout (yes, no)		NOT	
Downshift accelerator control (yes, no)			
Minimum cut-in speed		AVAILABLE	
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		
	Separate filler (yes, no)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
Extreme cold			

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375 HP (Opt. L78)

**DRIVE UNITS – AUTOMATIC TRANSMISSION** **NOT AVAILABLE**

Trade name	
Type describe	
Selector location	
List gear ratios Selector Pattern and indicate which are used in each selector position	
Max. upshift speed—drive range	
Max. kickdown speed—drive range	
Torque converter	Number of elements
	Max. ratio at stall
	Type of cooling (air, liquid)
Lubricant	Nominal diameter
	Capacity—refill (pt.)
Special transmission features	Type recommended

**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 .065 (Model 13880) 3.25 x 56.34 x .065 (Models 13837 & 13867)
	Manual 4-speed trans.	3.25 x 60.14 x .065 (Model 13880) 3.25 x 56.34 x .065 (Models 13837 & 13867)
	Overdrive transmission	NA
	Automatic transmission	NA

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

(Continued)

## AMA Specifications—Passenger Car

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 13837, 13867 & 13880  
 396 Cu. In. V-8  
 375 HP (Opt. L78)

## MODEL

## DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750-1.1752
Universal joints	Make and Mfg. No.	Chevrolet 3841921
	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, overhang hypoid pinion and ring gear		
Limited Slip differential, type	Dual disc clutches		
Drive Pinion Offset	1.50		
No. of differential pinions	Two		
Pinion adjustment (shim, other)	None		
Pinion bearing adj. (shim, other)	Shim		
Wheel bearing type	Single row cylindrical		
Lubricant	Capacity (pt.)	4	
	Type recommended	Meeting Military Spec. MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
Extreme cold		SAE 80	

## AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage).

Axle ratio	3.07	3.31	3.55	3.73	4.10	4.56	4.88
No. of teeth	Pinion	14	13	11	11	10	9
	Ring gear	43	43	39	41	41	39
Ring Gear O.D.	8.875						

# AMA Specifications—Passenger Car

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MODEL 13837, 13867 & 13880

## DRIVE UNITS—WHEELS

Type & material		
Rim (size & flange type)	Std.	14 x 6JK
	Opt.	
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		F70 x 14 x 2 (4 ply rating) (a) G70 x 14 x 2 (4 ply rating) (b)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	26 Coupes, & Conv.; 24 Pickup
		Rear	28 Coupes, & Conv.; 32 Pickup
	Rev./Mile at 50 MPH		
Optional	Size, ply rating, & ply		

## BRAKES—PARKING

Type of control	Foot pedal apply; handle release	
Location of control	Below 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) Models 13837 & 13867

(b) Model 13880

## AMA Specifications—Passenger Car

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BRAKES—SERVICE		STANDARD DRUM-TYPE	OPT. FRONT DISC SYSTEM		
Type (drum or disc)		Drum (front-finned)	Disc (front)		
Self adjusting (std., opt., N.A.)		Std.			
Power brake make & type (remote, int., etc.)	Std.	--	Delco-Moraine; Integral		
	Opt.	Delco-Moraine; Integral	--		
Effective area (sq. in.)*		155.4	106.1		
Gross lining area (sq. in.)**		168.9	117.4		
Swept area (sq. in.)***		268.6	332.4		
Percent brake effectiveness—front		59.0			
Drum or Disc	Diameter (nominal)	Front 9.5	Rear 11.0		
	Type and material	Composite; Cast Iron Rim; Steel Web	Cast Iron Front Disc; Composite Rear; Cast Iron Rim; Steel Web		
Disc (vented or solid)		--	Vented		
No. pistons per caliper		--	4		
Wheel cylinder bore	Front	1.125	2.063		
	Rear	.9375			
Master Cylinder	Bore	1.00	1.125		
	displacement distribution	Front % Rear %	59.0 41.0		
Disc Brk. Valve	Type (proportion, delay, metering, other)	--	Metering (front line)		
Pedal arc ratio		6.32	3.53		
Line pressure at 100 lb. pedal load		805			
Shoe clearance adjustment		Self-Adjusting			
Brake lining	Drum or Disc		Drum (front finned)	Disc (front)	
	Bonded or riveted		Bonded	Riveted	
	Front Wheel	Material		Wet Compression Molded Asbestos	
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.5 x .17	5.96 x 2.21 x .41
			Second. or in-board	9.75 x 2.5 x 2.0	5.96 x 2.21 x .41
		Segments per shoe		One	One
	Rear Wheel	Material		Wet Compression Molded Asbestos	
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.0 x .17	9.01 x 2.0 x .17
			Second. or in-board	9.75 x 2.0 x .20	9.75 x 2.0 x .20
		Segments per shoe		One	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.)

## AMA Specifications—Passenger Car

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MODEL

13837, 13867 &amp; 13880

## 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: Tilt achieved with universally-jointed steering shaft at base of steering wheel; 5 inch vertical turning range	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	Round 16.5; Oval 15.5 x 16.25	
	Power	Round 16.5; Oval 15.5 x 16.25	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	45.1 for 116" wheelbase; 44.7 for 112" wheelbase
		Curb to curb (l. & r.)	41.0 for 116" wheelbase; 39.4 for 112" wheelbase
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Outside whl. angle with inside whl. at 20°		18.6°	
Manual	Gear	Type	Semi-reversible, recirculating ball nut
		Make	Saginaw
		Ratios	Gear 24:1 Overall 28:1
	No. wheel turns	5.5	
Power	Type (coaxial, linkage, etc.)		Coaxial
	Make		Saginaw
	Gear	Type	Same as manual
		Ratios	Gear 17.5:1 Overall 20.4:1
		Overall	
	Pump driven by		Crankshaft pulley
Number wheel turns		4.0	
Linkage	Type		Parallelogram
	Location (front or rear of wheels, other)		Front of wheels
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		7-3/4 to 8-3/4
	Bearings (type)	Upper	Ball stud with non-metallic bearing surfaces
		Lower	Ball stud with non-metallic bearing surfaces
		Thrust	None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		N 1 to 0
	Camber (deg.)		0 to P1
	Toe-in (outside track inches)		1/8 to 1/4
Steering spindle & joint type		Forging with pad for mounting brake cylindrical, spherica	
Wheel Spindle	Diameter	Inner bearing	1.2493 - 1.2498
		Outer bearing	.7493 - .7498
	Thread size		3/4-20 NEF - 3 (Modified)
	Bearing type		Taper roller



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 MODEL 396 Cu. In. V-8

## SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Front stabilizer bar
Provision for brake dip control	Mounting angle of front upper control arms
Provision for acc. squat control	Geometry of rear suspension
Special provisions for car jacking	
Shock absorber front & rear	Direct double acting hydraulic
Type	Delco
Make	1.00
Piston dia.	
Other special features	

## SUSPENSION – FRONT

Type and description	Independent - SLA type with coil spring and concentric sh absorber and spherically jointed steering knuckle for each wheel
Spring	Coil
Type	Steel alloy
Material	11.70 x 3.63
Size (coil design height & I.D. bar length x dia.)	138.3 x .626
Spring rate (lb. per in.)	320
Rate at wheel (lb. per in.)	117
Stabilizer	Link
Type (link, linkless, frameless)	H.R. steel .937
Material & bar diameter	

## SUSPENSION – REAR

Type and description	Linked; salisbury axle fixed by control arms
Drive and torque taken through	Control arms
Spring	Coil
Type	Steel alloy
Material	9.00 x 5.50
Size (length x width, coil design height & I.D.; bar length & dia.)	88.7 x .531 (a)
Spring rate (lb. per in.)	130
Rate at wheel (lb. per in.)	126
Mounting insulation type	Natural rubber
If leaf	No. of leaves
Shackle (comp. or tens.)	- - -
Stabilizer	None
Type (link, linkless, frameless)	- - -
Material	- - -
Track bar type	None

(a) 102.6 x .557 for Pickups



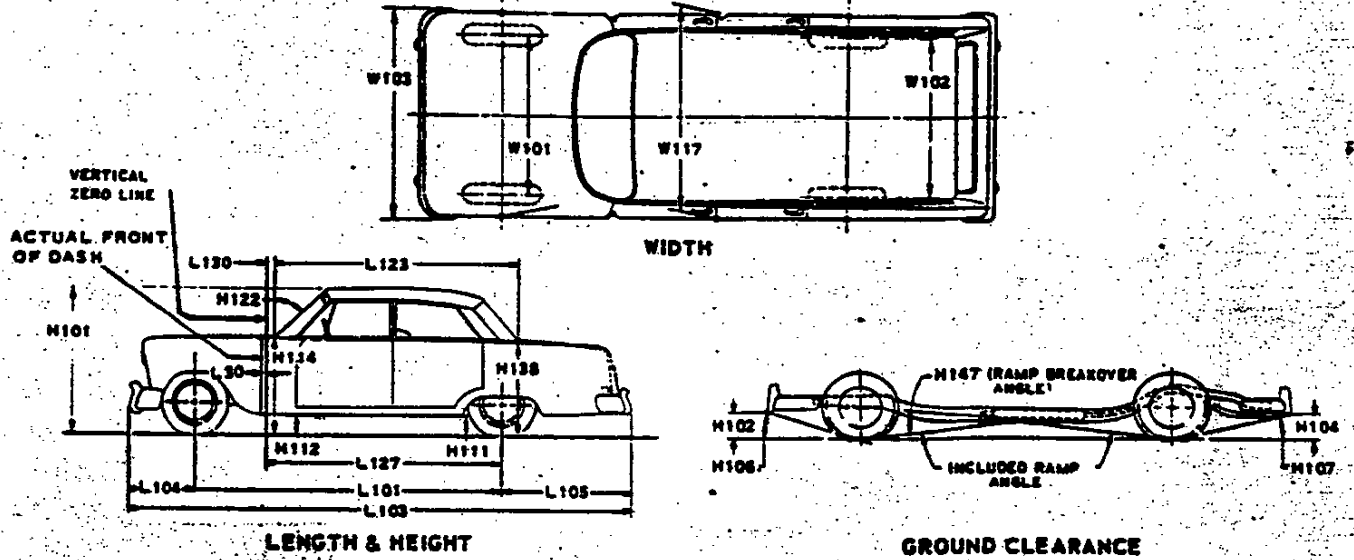


# AMA Specifications—Passenger Car

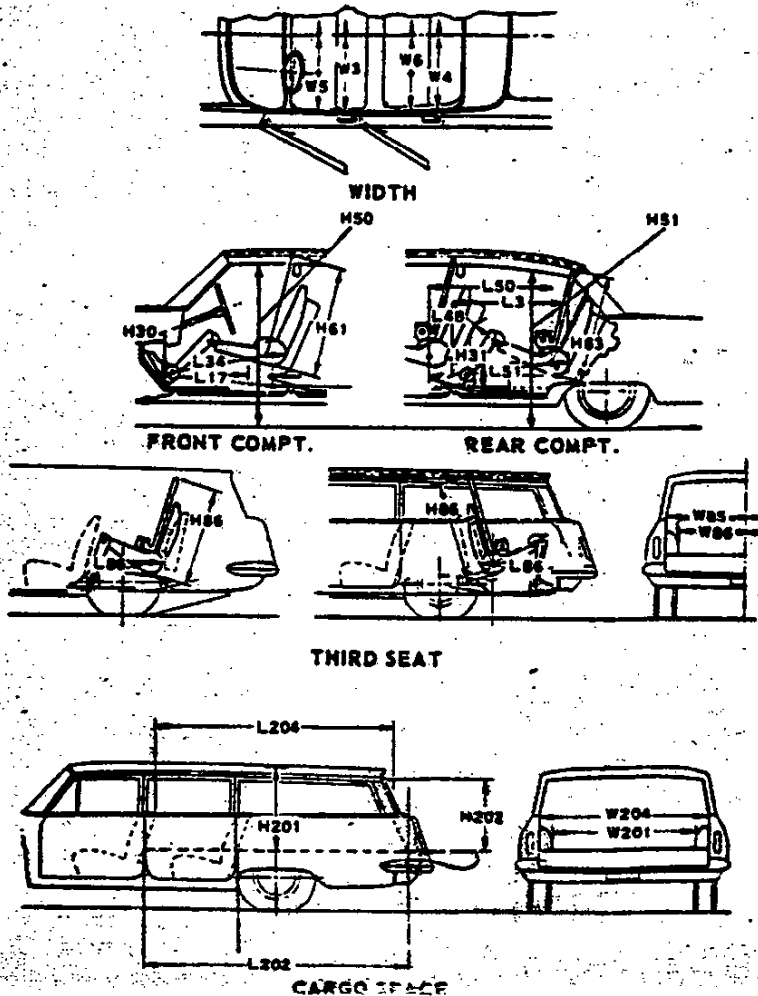
## CAR AND BODY DIMENSIONS

### KEY SHEET

#### EXTERIOR CAR AND BODY DIMENSIONS



#### INTERIOR CAR AND BODY DIMENSIONS





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## 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, rail 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. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.  
 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 37° and the shoe touching the pedal.  
 H 30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.  
 L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

## FRONT COMPARTMENT DIMENSIONS (Cont.)

- W 3 SHOULDER ROOM - FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.  
 W 5 HIP ROOM - FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.  
 H 50 UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.  
 REAR COMPARTMENT DIMENSIONS  
 L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.  
 H 63 EFFECTIVE HEAD ROOM - REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.  
 L 51. MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.  
 H 31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.  
 L 48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.  
 L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.  
 W 4 SHOULDER ROOM - REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.  
 W 6 HIP ROOM - REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.  
 H 51 UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

## LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.  
 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.