AMA Specifications—Passenger Car

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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 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.

	396 Cu. In. V8 - 375 HP Optional (L78)
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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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
WIDTH				
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				
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 ℄ of rear wheel	L127	95.6		99.6
Body "O" line to w/s cowl point	L130			
HEIGHT				
Overall height	H101	52.7	53.2	54.0
Cowl height	H114	37.4	37.7	38.4
Deck height	H138			
Rocker panel – front: To ground / From front wheel ℄	H112	7.4		8.4
Rocker panel – rear: To ground / From rear wheel ℄	H111	8.5		9.7
Windshield slope angle	H122			
GROUND CLEARANCE				
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

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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
FRONT COMPARTMENT				
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
REAR COMPARTMENT				
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			
LUGGAGE COMPARTMENT				
Usable luggage capacity	V 1		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			
Effective leg room	L86			
Effective head room	H86			
Seat facing direction				
STATION WAGON – CARGO SPACE				
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.) $\frac{W4 \times L204 \times H201}{1728}$	V2			

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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)	3.55	3.31	3.73	4.10
						4-Speed * & 4-Speed H.D. * (2.20:1 low)	3.55	3.31	3.73	3.07 4.10 4.56 4.88

* - Optional

** - Positraction required for 4.10:1, 4.56:1 & 4.88:1-available as an option for all other ratios.

A - Standard
B - Economy
C - Performance
D - Special

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

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 (℄ to ℄)		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)		11.00:1
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° 46'
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		53.6
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

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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, 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 expender) 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
	Bushing	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 aluminum
	Overall length	.857
	Clearance (limits)	.0009 - .0029
	End play	.016 - .020

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375 HP (Opt. L78)

ENGINE – CRANKSHAFT

Material (a)			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

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

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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	Ventilates to induction system
	Optional	--
Control Unit	Make and model	AC Spark Plug - 6424250
	Location	Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum
	Control method (variable orifice, fixed orifice, other)	Fixed 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) Bench test - no flow conditions

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375 HP - (Opt. L78)

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
	Barrel size		1.561 (Pr. & Sc)
	Idle speed	Drive	- - -
		Neutral	750
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)		None
	Make		Delco Remy
	Model		1111170
	Cent'fgal 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

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ENGINE – FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Refill capacity (U.S. gals.)		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		7.25 - 8.50
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Fine mesh plastic strainer in gasoline
	Locations		Tank and paper filter in carburetor inlet
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air cleaner type	Standard	Oil wetted paper element
		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

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ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 ± 1 psi
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at (°F)		192° - 198°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM @ 1000 pump rpm		82 @ 5200
	Number of pumps		One
	Drive (V-belt, other)		V-belt
	Bearing type		Double row ball
By-pass recirculation type (inter., ext.)			External
Radiator core type (cellular, tube and fin, other)			Tube and Center
Cooling system capacity	With heater (qt.)		24
	Without heater (qt.)		23
	Opt. equipment-specify (qt.)		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	1.88
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One, molded
		Inside diameter	.725 - .765
Fan	Number of blades & spacing		5, Staggered
	Diameter		18.00
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		Thermo-modulated - viscous coupling
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		A
	Generator or alternator		A
	Water Pump		A
	Power Steering		--
	Air Conditioning		--
	Air Injection		B

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	42°									
Nominal length (SAE)	55.50	50.00									
Width	.380										

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375 HP (Opt. L78)

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
	Regulated	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.	--

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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'fgal 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

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375 HP (Opt L78)

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 gage
Other		Refer to page 23
Wind-shield wiper	Type – Standard	Electric; two-speed
	Type – Optional	None
Wind-shield 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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DRIVE UNITS – TRANSMISSIONS

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

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	

AMA Specifications—Passenger Car

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

MODEL 13837, 13867 & 13880
396 Cu.In. V-8
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 convertor	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
Lubricant	Capacity–refill (pt.)	
	Type recommended	
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 (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)

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

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

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)	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	8
	Ring gear	43	43	39	41	41	41	39
Ring Gear O.D.		8.875						

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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

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

MODEL 13837, 13867 & 13880

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	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 (front finned)	Disc (front)
	Bonded or riveted		Bonded	Riveted
	Front Wheel	Material	Wet Compression Molded Asbestos	
		Size (length x width x thickness) Prim. or outboard	9.01 x 2.5 x .17	5.96 x 2.21 x .41
		Size (length x width x thickness) Second. or inboard	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 outboard	9.01 x 2.0 x .17	9.01 x 2.0 x .17
		Size (length x width x thickness) Second. or inboard	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.)

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MODEL 13837, 13867 & 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
	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 or 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.)			O to PI
	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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MAKE OF CAR CHEVELLE MODEL YEAR 1968 DATE ISSUED 10/15/67 REVISED (a)

MODEL 13837, 13867, & 13880
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	Type	Direct double acting hydraulic
	Make	Delco
	Piston dia.	1.00
Other special features		

SUSPENSION – FRONT

Type and description		Independant - SLA type with coil spring and concentric sh absorber and spherically jointed steering knuckle for eacl wheel
Spring	Type	Coil
	Material	Steel alloy
	Size (coil design height & I.D. bar length x dia.)	11.70 x 3.63 138.3 x .626
	Spring rate (lb. per in.)	320
	Rate at wheel (lb. per in.)	117
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	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 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	Type (link, linkless, frameless)		None
	Material		- - -
Track bar type			None

(a) 102.6 x .557 for Pickups

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MODEL 13837, 13867 & 13880

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		Sport Coupes	Convertibles	Pickup
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 Indent. No. location		Top left hand of instrument panel		
Engine No. location		8-Cyl. on top front of R.H. bank of cylinder and case.		
Theft protection - type		Warning buzzer sounds when key is left in "OFF" position with left front door open		
Vent window control method (crank, friction pivot)	Front	Crank		
	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	1211.8	1208.7
Side glass exposed surface area		1151.1	1120.6	648.8
Backlight glass exposed surface area		1059.4	539.7	698.6
Total glass exposed surface area		3419.2	2862.1	2556.1

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MODEL

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional - 13800
	Vent windows	N.A.
	Backlight or tailgate	Optional
Power seats (specify type as well as availability)		N.A.
Reclining front seat back (R-L or both)		N.A.
Front seat head restrainer (R-L or both)		Optional = both R & L
Radios (specify type as well as availability)		Optional AM-Push-button, AM-FM-Push-button
Rear seat speaker		Optional
Power antenna		N.A.
Clock		Optional
Air conditioner (specify type and availability)		Optional-Four Season and G.M. Chevrolet
Speed warning device		Optional all models
Speed control device		Optional - 13800
Ignition lock lamp		N.A.
Dome lamp		Standard
Glove compartment lamp		Standard
Luggage compartment lamp		Optional pickup
Underhood lamp		Optional all models
Courtesy lamp		Optional exc. conv.
Map lamp		N.A.
Auto. trans. quad. lamp		Standard
Cornering light lamp		N.A.

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	
		Lowest	
	Tail	Highest	
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

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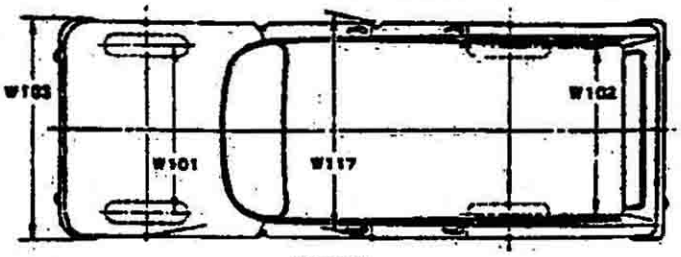
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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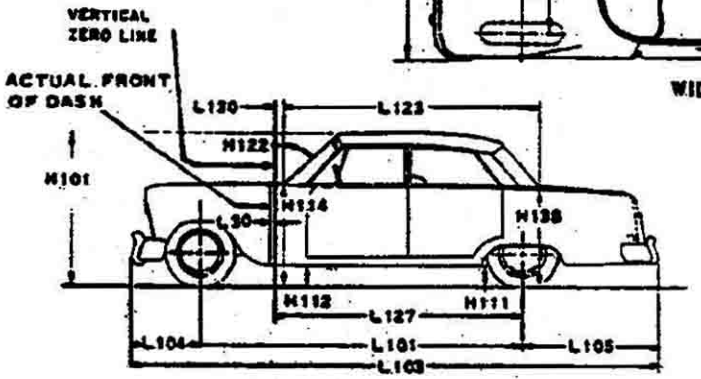
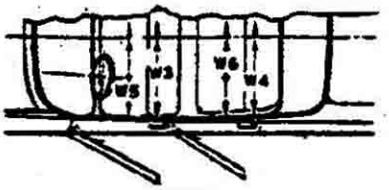


LENGTH & HEIGHT

GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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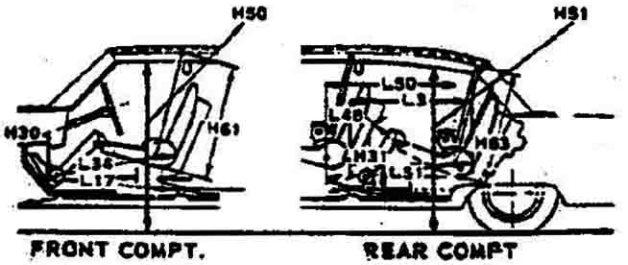
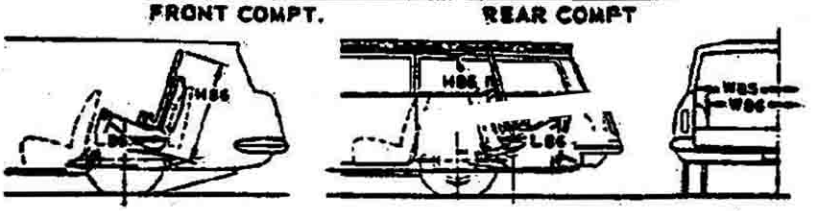
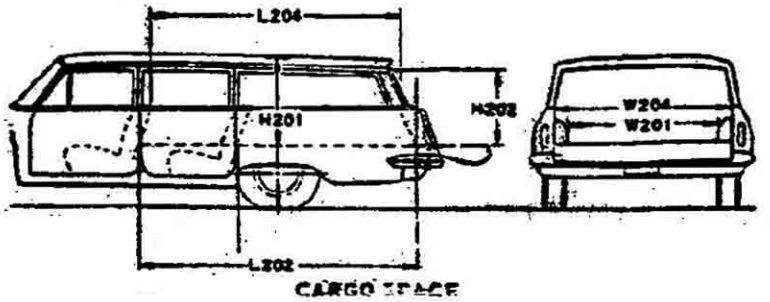


FRONT COMPT. REAR COMPT



THIRD SEAT



CARGO SPACE

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

WEIGHTS

	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
Model								
SS 396 (13800)								
2-Door Spt. Cpe. (37)	2085	1640	3725					3550
Convertible (67)	2095	1645	3740					3570
Pick-up (80)	2055	1620	3675					3500

Accessories & Equipment Differential Weights			
396 Cu. In. V-8 (L78)		+ 19	
3-Spd. H.D. Trans.			+ 27
4-Spd. Trans.		- 26	
Power Windows			+ 24
Astro - Bucket Seat			+ 21
Head Rest-Astro			+ 11
Floor Console			+ 11
Power Brakes			+ 11
Disc Brakes			+ 39
Power Steering			+ 32
Radio - Push Button			+ 8
AM-FM			+ 9
Tape Player			+ 25

Remarks

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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, 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 wheelhousings 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.

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