AMA Specifications – Passenger Car

Data prepared and distributed by American automobile manufacturers, using uniform questionnaire form developed by car manufacturers under auspices of the Automobile Manufacturers Association.

MAKE OF CAR CHEVROLET **MODEL YEAR** 1959 **DATE: ISSUED** 7-15-58 **REVISED** 10-16-58

COMPANY Chevrolet Motor Division, General Motors Corporation

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
Corvette	867		

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NOTES:

1. The specifications set forth herein are those in effect at the date of compilation and are subject to change without notice.
UNLESS OTHERWISE INDICATED:
2. All specifications are standard for the models under which they are listed.
3. Specifications apply basically to 4-door sedan or equivalent. Body dimensions shown on pages 19-24 include other body models available.
4. All dimensions are nominal engineering dimensions.

GENERAL SPECIFICATIONS

MODEL		Additional Information Page No.:	283 cu. in. V-8
Wheelbase (L-101)		22	102.0
Tread	Front (W-101)	23	57.0
	Rear (W-102)	23	59.0
Maximum Overall Dimensions	Length (L-103)	22	177.2
	Width (W-103)	23	72.8
	Height (H-101)	21	51.6
Transmission—(Specify trade name - opt., not available)	Manual	12	3-Speed close ratio (a)
	Overdrive	13	None
	Automatic	13	Powerglide (optional)
Axle ratio	Manual	14	3.70:1
	Overdrive	14	None
	Automatic	14	3.55:1
Tire size		15	6.70x15-4 ply
Engine	Type, no. cyl., valve arr.	2	90°V-8, OHV
	Fuel system (Carb. or inj.)	6	Carburetor (b)
	Bore and stroke	2	3.875 x 3.00
	Piston displ., cu. in.	2	283
	Std. compression ratio	2	9.5:1 (c)
	Max. bhp at engine rpm	2	230 @ 4800
	Max. torque at rpm	2	300 @ 3000

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(a) 4-Speed close ratio optional
(b) Dual 4-barrel or Fuel Injection optional
(c) 10.5:1 with Fuel Injection and special cam

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ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V-8, OHV
Bore and stroke		3.875 x 3.0
Piston displacement, cu. in.		283
Bore spacing (C/L to C/L)		4.4
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)	Standard	9.5:1
	Optional	10.5:1 with Fuel Injection and special cam
Cylinder Head Material	Standard	Cast alloy iron
	Optional	None
Cylinder Sleeve - Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	One
Taxable horsepower $\frac{Dia.^2 \times No. Cyl.}{2.5}$		48
Published max. bhp at engine RPM*	Standard	230 @ 4800
	Optional	See below
Published max. torque* (lb. ft. @ RPM)	Standard	300 @ 3000
	Optional	See below
Recommended fuel regular - premium	Standard	Premium
	Optional	Premium
Recommended idle speed (neutral)		3-Speed - 475 in Neutral; Powerglide - 425 in Drive

ENGINE—PISTONS

Material	Cast aluminum alloy
Description and finish	Flat head, slipper skirt autothermic having machined reliefs for valve clearance (a)
Weight (piston only) oz.	N.A.

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

(Continued)

(a) With Fuel Injection and special cam, domed piston with machined reliefs

Engine	BHP @ RPM	Torque @ RPM
2x4-bbl. carburetor	245 @ 5000	300 @ 3800
2x4-bbl. carb. and special cam	270 @ 6000	285 @ 4200
Fuel Injection	250 @ 5000	305 @ 3800
Fuel Injection and special cam	290 @ 6200	290 @ 4400

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ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.035-.043
	Skirt	Top	.0016-.0020
		Bottom	N.A.
Ring groove depth	No. 1 ring		.2153-.2218
	No. 2 ring		.2153-.2218
	No. 3 ring		.2053-.2158
	No. 4 ring		None

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil Control
	No. 4, oil or comp.	None
Compression	Description - material, type, coating, etc.	Inside bevel, cast alloy iron, chrome plated O.D.
	Width	.0775-.0780
	Gap	.010-.020
Oil	Description - material, type, coating, etc.	Multi-piece, two (2) steel rails with chrome plated O.D. and one (1) stainless steel spacer
	Width	.221-.231
	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.		Pressed in rod
	Bushing	In rod or piston	None
		Material	None
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.)		NA
Length (center to center)		5.699-5.701
Bearing	Material & Type	Steel backed babbitt, precision removable (a)
	Overall length	.817
	Clearance (limits)	.0007-.0027
	End play	.008-.014

(a) With special camshaft, steel backed aluminum alloy matrix with a thin lead alloy overplate

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ENGINE—CRANKSHAFT

Material			Forged steel
Vibration damper type			Inertia, rubber mounted
End thrust taken by bearing (No.)			5
Crankshaft end play			.002-.006
Main bearing	Material & type		Steel backed babbitt, removable (a)
	Clearance		.0008-.0034
	Journal dia. and bearing overall length	No. 1	2.2983 x .7620
		No. 2	2.2983 x .7620
		No. 3	2.2983 x .7620
		No. 4	2.2983 x .7620
		No. 5	2.2983 x 1.169
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			1.999-2.000

ENGINE—CAMSHAFT

Location			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
	Camshaft gear or sprocket material		Cast alloy iron
	Timing chain	No. of links	46
		Width	.875
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard (b)
Special provision for valve rotation (intake, exhaust)		None
Rocker ratio		1.5:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero (b)
	Exhaust	Zero (b)
Timing marks on fly-wheel, damper, other		Damper

(Continued)

(a) With special camshaft, steel backed aluminum matrix with a thin lead alloy overplate

(b) With special camshaft, mechanical lifters standard - valve lash (hot), intake .012", exhaust .018" for maximum power output; .008" intake, .018" exhaust for maximum economy.

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	12°30'	Special camshaft 35°
		Closes (°ABC)	57°30'	72°
		Duration - deg.	250	287°
	Exhaust	Opens (°BBC)	54°30'	76°
		Closes (°ATC)	15°30'	31°
		Duration - deg.	250	287°
	Valve opening overlap		28°	66°
Intake	Material		Alloy steel	
	Overall length		4.9024-4.9224 (a)	
	Actual overall head dia.		1.715-1.725	
	Angle of seat		46° in head	
	Seat insert material		None	
	Stem diameter		.3415-.3422	
	Stem to guide clearance		.0010-.0027	
	Lift		.3987	.382 (.394-.012 lash)
	Outer spring press. and length	Valve closed (lb. @ in.)	69-79@ 1.696	
		Valve open (lb. @ in.)	159-169@ 1.306	
	Inner spring press. and length	Valve closed (lb. @ in.)	Valve spring damper 5-10 lb.	
		Valve open (lb. @ in.)	N.A.	
Exhaust	Material		Alloy steel	
	Overall length		4.913-4.933 (a)	
	Actual overall head dia.		1.495-1.505	
	Angle of seat		46° in head	
	Seat insert material		None	
	Stem diameter		.3417-.3417	
	Stem to guide clearance		.0015-.0032	
	Lift		.3987	.382 (.400-.018 lash)
	Outer spring press. and length	Valve closed (lb. @ in.)	69-79@ 1.696	
		Valve open (lb. @ in.)	159-169@ 1.306	
	Inner spring press. and length	Valve closed (lb. @ in.)	Valve spring damper 5-10 lb.	
		Valve open (lb. @ in.)	N.A.	

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	Pressure
	Cylinder walls	Pressurized jet cross sprayed

(a) With special camshaft, intake 4.8699-4.8899, exhaust 4.8905-4.9105

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	35@ 2000
Oil pressure sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full flow
Filter replacement (element, complete)	Element
Capacity of crankcase, less filter-refill (qt.)	5
Oil grade recommended (SAE viscosity and temperature range)	32°F and above - SAE 20W, SAE 20, SAE-10W-30 0°F and above - SAE 10W, SAE 10W-30 Below 0°F - SAE 5W, SAE 5W-20 Sustained high speed over 90°F - SAE 30 may be used
Engine Service Requirement (MM, MS, etc.)	MS or DG

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		Two, reverse flow (a)
Exhaust pipe dia. (O.D. wall thickness)	Branch	None
	Main	2.0 x .0625
Tail pipe diameter (O.D. & wall thickness)		1.81 x .0598

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor (Fuel Injection optional)
Fuel Tank	Capacity (gals.)	16.4
	Filler location	Left side of body to rear of driver's door
Fuel Pump	Type (elec. or mech.)	Mechanical
	Location	Lower right front corner of engine
	Pressure range	5.25-6.50 psi
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Sintered bronze
	Location	Carburetor inlet
Carburetor	Make & Model No.	Carter - 3756676 2 x 4-barrel regular cam front 3744002, rear 3744004; special camshaft, front 3741089, rear 3741090
	Number & Type	Single 4-barrel downdraft (dual 4-barrel downdraft optional)
	Barrel size	1.4375
	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air clnr. type: Standard	Oil wetted
	Air clnr. type: Optional	Paper element with Fuel Injection

(a) Straight through with special camshaft.

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SUPPLEMENTARY INFORMATION

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Engine Fuel System - Fuel Injection

Injection System	Make	Rochester Products
	Model	7017200 (b)
	Type	Constant flow
Fuel Recommended		Premium
Fuel Pump	Type	Mechanical
	Location	Lower right front corner of engine
	Pressure range	5.25-6.50 psi
Auxiliary Fuel Filter	Type	Paper filter
	Location	Bracket to engine adapter on right, rear of cente
Inlet Manifold Adapter-Material		Cast aluminum
Inlet Manifold - Material		Cast aluminum
Air Induction (a)	Air Cleaner Type	Dry (paper element)
	Air Meter Location	Left side of engine
	Plenum Chamber	Integral with inlet manifold
	Ram Pipes	Eight, integral with inlet manifold
	Ram Pipe Length	12 inches
Fuel Induction		Metered as function of air flow
Air/Fuel Ratio Control	Type	Vacuum sensitive diaphragm
	Location	On fuel meter
Fuel Meter Pump	Type	Gear
	Location	In fuel meter assembly
	Drive	Gear driven by flexible shaft from distributor
	Pressure (max.)	300 psi
Injection Nozzles	No. Used	Eight
	Material	Brass
	Location	Mounted on inlet manifold above intake ports
	Orifice Size, Fuel	.0118
	Insulation	Bakelite blocks
Automatic Enrichment	Type	Electric, time-temperature
	Location	On air meter assembly
	Current Draw	1 amp. @ 70°
	Fast Idle Cam	Yes

(a) Air intake ducts which channel outside air to the engine compartment are furnished with Fuel Injection.
(b) 7017250 with special camshaft.

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ENGINE—COOLING SYSTEM

Type (pressure system, atmospheric, other)			Pressure system
Radiator cap relief valve pressure			6.25-7.75 psi
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at (°F)		160
Water pump	Type (centrifugal, other)		Centrifugal
	Number of pumps		One
	Drive (V-belt, other)		V-belt
	Bearing type		Double row ball
By-pass recirculation type (internal, external)			Internal
Radiator core type (cellular, tube and fin, other)			Cellular
Cooling system capacity	With heater (qt.)		16.5
	Without heater (qt.)		15.5
	Opt. equipment-specify (qt.)		None
Water jackets full length of cylinder (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
	Ratio-fan to crankshaft rev.		.919:1
	Fan cutout type		None
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		A
	Generator		A
	Water Pump		A
	Power Steering		N.A.
	Air Conditioning		N.A.

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* Drive Belt Dimensions	A
Angle of V	37-44°
Nominal length (SAE)	55.40 (a)
Width	.380 ± .005

(a) Pitch length

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco, 1980458
	Voltage Rtg. & Total Plates		12 Volts, 54 plates
	SAE Designation & Amp Hr. Rtg		2SMR, 53 amp. hr.@ 120 hr.
	Location		Engine compartment right rear side
	Terminal grounded		Negative
Generator	Make		Delco-Remy
	Model		1102043 (a)
	Type		Two brush, shunt wound
	Ratio—Gen. to Cr/s rev.		2.00:1
	Gen. cut-in—engine rpm		620
Regulator	Make		Delco-Remy
	Model		1119001
	Type		Vibrator
	Cutout relay	Closing voltage @ generator rpm	11.8-13.5@ 1300 RPM
		Reverse current to open	NA
	Regulated	Voltage	13.8-14.8
		Current	27-33 amps
	Voltage test conditions	Temperature	Operating
		Load	10 amps max.
		Other	None

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107664
	Rotation (drive end view)		Clockwise
	Engine cranking speed		NA
	Test conditions		Engine at operating temperature
	Lock test	Amps	NA
		Volts	NA
		Torque (lb. ft.)	NA
	No load test	Amps	75 (max.)
		Volts	10.3
		RPM (min.)	6900
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		3 & 4-Speed, shift into neutral and depress clutch. Powerglide place selector lever in "P" (Park) or "N" (Neutral). To start engine, depress accelerator pedal to floor, release, turn ignition key to extreme right.

(a) 1102059 with special cam.

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor drive	Engagement type		Positive shift solenoid
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	168
	Flywheel tooth face width		.4135

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy
	Model		1115091 (e)
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		Delco-Remy
	Model		1110946 (a)
	Centrifugal adv. in crankshaft degrees @ engine rpm	Start (rpm)	0@ 600 (c)
		Intermediate points deg. @ rpm	14@ 1500 (c)
		Max deg. @ rpm	28@ 3700 (c)
	Vacuum adv. in crankshaft degrees @ in. Hg.	Start (in. Hg)	0@ 8 (d)
		Intermediate points, deg.@in.Hg	NA
		Max. deg. in. Hg.	15@ 15.5 (d)
	Breaker gap (in.)		.018
	Cam angle (deg.)		26-33
	Breaker arm tension (oz.)		19-23
Timing	Crankshaft deg. @ rpm.		4° BTC@ 600 RPM (b)
	Mark location		Damper
	Cylinder numbering system (see page 2)		Left bank - 1-3-5-7 Right bank - 2-4-6-8
	Firing order (see page 2)		1-8-4-3-6-5-7-2
Spark Plug	Make and model		AC-46
	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		Hypalon jacket

ELECTRICAL—SUPPRESSION

Description	Non-metallic high tension cable

(a) 1110891 with 2 x 4-bbl. carburetors; 1110915 with Fuel Injection and 1110914 with Fuel Injection and special cam.
(b) 14° BTC@ 1000 RPM with Fuel Injection and special cam
(c) 0@ 1000 RPM, 5°@ 1500 RPM, 22°@ 6000 RPM with Fuel Injection and special cam
(d) 0@ 5.24@ 13.5 with Fuel Injection; no vacuum advance with 2 x 4-bbl.

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator-type		Ammeter
Temperature indicator-type		Gauge (electric)
Oil pressure indicator-type		Gauge (bourdon tube)
Fuel indicator-type		Gauge (electric)
Other		Tachometer (mechanical)
Ignition switch	Identify positions in order and circuits controlled	Counter clockwise from vert. ---------- Off, "Lock" Vertical ---------- "Off," unlocked 1st pos. clockwise from vert. ---------- "On", ign. & accessories 2nd pos. clockwise from vert. ---------- "Start", ign. & starter, spring return to "On"
	Provision for illumination	None
	Location	On instrument panel, right of steering column
Main lighting switch	Identify positions and lights controlled	Depressed - off 1st notch - Instru. panel, parking, tail, license lights 2nd notch - Instru. panel, head, tail, license lights Rotate clockwise to dim or turn off instru. panel lights, counter clockwise to turn on or brighten panel lights.
Other light switches	Locations and lamps controlled	Toe panel ---------- Headlight dimmer. Steering column ---------- Turn signal lamps Hinge pillars, rh & lh ---------- Courtesy lamp (b)(c) Brace below instru. panel ---------- Stop lamps Parking brake handle shaft ---------- Park brake alarm lamp (b
Other switches	Locations and devices controlled	Instru. panel, center ---------- Power folding top. (d) Instru. panel, left ---------- Elect. w/s wipers Door panels, lh & rh ---------- Elect. window lifts (d) Instru. panel, lower ---------- Radio (b) Instru. panel, lower ---------- Heater blower (b)
Windshield wiper	Make	Delco
	Type	Electric, 2-speed
	Vacuum booster provision	None
	Washer provision	Factory Optional Accessory (a)
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8.0-11.0 @ 12.5 Volts

(a) Includes co-ordinator and vacuum reserve tank

(b) Available as a Factory Optional Accessory

(c) Switch on lamp housing also

(d) Available as a Regular Production Option

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ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		Dual horizontal 2-4001 (inner), 2-4002 (outer)
Headlamp beam indicator		1-53
Parking light		2-1034 (4 cp. filaments)
Tail light		2-1034 (4 cp. filaments)
Stop light		2-32 cp. filaments of tail light bulbs
Direction signal	Front	2-32 cp. filaments of parking light bulbs
	Rear	2-32 cp. filaments of tail light bulbs
	Indicator	2-57
License plate light		2-67
Instrument light		5-57
Ignition lock light		None
Back up light		None
Dome light		None
Clock light		1-67
Radio light		1-GE-1891
Glove compartment light		None
Park brake alarm		1-53*
Courtesy light		1-90*
Cig. lighter light		1-53

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lights SFE-10 (a), Direction indicator same as (a).

Headlamp	15 CB (a)
Headlamp beam indicator	(a)
Parking light	(a)
Tail light	3 AG/AGC - 10 amp (b)
Stop light	(b)
Direction indicator	Flasher
License plate light	(b)
Instrument light	AGC - 3 amp (c)
Ignition light	None
Back up light	None
Dome light	None
Clock	3 AG/AGC - 10 amp (d)
Clock light	(c)
Radio	Light: (c), Receiver: 3 AG/AGC 7.5 amp
Glove compartment light	None
Park brake alarm	(d)
Power windows	40 CB (e)
Heater blower	3 AG/AGC - 10 amp
Cig. lighter light	(c)
Power top	(e) & 2 SAE 14 amp

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg and Beck, dry plate
Type pressure plate springs		Coil
Total plate pressure (lb.)		1620 initial
No. of clutch driven discs		One
Clutch facing	Material	Premium woven asbestos composition
	Outside & inside dia.	10.0 x 6.5
	Total eff. area (sq.in.)	90.72
	Thickness	.132-.138
	Engagement cushioning method	Springs
Release bearing	Type & method of lubrication	Ball bearing, sealed
Torsional damping	Methods: springs, friction material	Spring at hub

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	None
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			3-Speed (standard)	4-Speed (optional)
Transmission ratios	In first		2.21:1	2.20:1
	In second		1.32:1	1.66:1
	In third		1.00:1	1.31:1
	In fourth		None	1.00:1
	In reverse		2.51:1	2.26:1
Synchronous meshing, specify gears			2nd, and 3rd	1st, 2nd, 3rd, 4th
Lubricant	Capacity (pt.)		2	3.5
	Type recommended		A-9 mineral lubricant	
	SAE viscosity number	Summer	SAE-90	
		Winter	SAE-90	
		Extreme cold	SAE-80	

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)			None
	Manual lockout (yes, no)			-
	Downshift accelerator control (yes, no)			-
	Minimum cut-in speed			-
	Gear ratio			-
	Lubricant	Capacity (Overdrive only)		-
		Separate filler (yes, no)		-
		Type recommended		-
		SAE viscosity number	Summer	-
			Winter	-
			Ext. cold	-

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Powerglide
Type describe		Torque converter with planetary gears
Method of Selection (Lever, Push Button or other)		Lever
Selector Pattern		P-Park, R-Reverse, N-Neutral, D-Drive, L-Low
List gear ratios Selector Pattern and indicate which are used in each selector position		Drive 1.82-1.00:1 Low.1.82:1 Reverse 1.82:1
Max. upshift speeds—drive range		55
Max. kickdown speeds—drive range		50
Torque converter	Number of elements	3
	Max. ratio at stall at engine rpm	2.1:1
	Type of cooling (air, water)	Air
Lubricant	Capacity—refill (pt.)	9
	Type recommended	Type "A", Suffix "A"
Special transmission features		Three element hydraulic torque converter with automatic planetary gear system for reverse and low

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MODEL Corvette

DRIVE UNITS—PROPELLER SHAFT

Number used			1
Type (exposed, torque tube)			Exposed
Outer diameter x length* x wall thickness	Manual transmission		2.50 x 34.55 x .065
	Overdrive transmission		None
	Automatic transmission		Same as manual transmission
Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		None
Universal joints	Make		Own
	Number used		2
	Type (ball and trunnion, cross, other)		Yoke & spider (trunnion)
	Bearing	Type (plain, anti-friction)	Anti-friction
		Lubric. (fitting, prepack)	Fitting
Drive taken through (torque tube or arms, springs)			Rear springs and radius rods
Torque taken through (torque tube or arms, springs)			Rear springs and radius rods

DRIVE UNITS—REAR AXLE

Description - (incl. limited slip differential)			Standard axle - Semi-floating, overhung pinion gear. Optional "Positraction" - Semi-floating, overhung pinion gear. Spicer limited slip with dual 4 disc clutches applied by reaction torque through the differential side gears.
Drive Pinion Offset			1.5
No. of differential pinions			2 (b)
Gear ratio and No. of teeth	Automatic transmission		3.55:1, 9-32 (a)
	Overdrive trans.		None
	Manual transmission		3.70:1, 10-37 (a)
Ring gear pitch diameter & O.D.			8.375 p.d. & o.d.
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			None
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		4
	Type recommended		A-9 hypoid
	SAE viscosity number	Summer	SAE-90
		Winter	SAE-90
		Extreme cold	SAE-90

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

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(a) Optional Positraction axles available with 3.70:1 (10-37), 4.11:1 (9-37), or 4.56:1 (9-41) ratios with manual transmission. Positraction not available with automatic transmission.

(b) 4 pinions in Positraction axle.

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MODEL Corvette

DRIVE UNITS—WHEELS

Type & material		Short spoke disc, pressed steel
Rim (size and flange type)		15 x 5K (a)
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5, 7/16-20

DRIVE UNITS—TIRES

Standard	Size & ply	6.70 x 15-4 ply
	Type - Nylon, etc.	Rayon
	Sidewall color	Black
Optional	Size & ply	6.70 x 15-4 ply
	Type - Nylon, etc.	Rayon (b)
	Sidewall color	White (b)
Rev/mile at 30 mph		760
Inflation press.(cold)	Front	24 psi
	Rear	24 psi

BRAKES—SERVICE

Type				Servo, 4 wheel hydraulic	
				Regular production	Optional (c)
Power brake type				None	
Effective area (sq. in.)				157	108
Gross lining area (sq. in.)				157	120
Percent brake effectiveness-front				56%	56%
Drum	Diameter	Front		11	
		Rear		11	
	Type and material			Composite; cast alloy iron rim, pressed steel web	
Brake lining	Bonded or riveted			Bonded	Riveted
	Front Shoe	Material		Full molded asbestos comp.	Sintered Iron
		Size (length x width x thickness)	Front wheel	9.29 x 2.0 x .175	2.00 x 1.00 x .175
			Rear wheel	9.29 x 1.75 x .175	2.00 x .875 x .175
		Segments per shoe		1	6
	Rear Shoe	Material		Full molded asbestos comp.	Sintered Iron
		Size (length x width x thickness)	Front wheel	11.69 x 2.0 x .175	2.00 x 1.00 x .295
			Rear wheel	11.69 x 1.75 x .175	2.00 x .875 x .295
		Segments per shoe		1	10
Wheel cylinder bore	Front			1.125	
	Rear			1.0	
Master cylinder bore				1.0	
Available pedal travel				4.5	
Line pressure at 100 lb. pedal load				700 approx	
Shoe clearance adjustment				Adjust to a light drag, back off 7 notches (d)	

(a) 15 x 5.5K wheels available as a Regular Production Option

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(b) 6.70 x 15-4 ply nylon tires (black) available as a Limited Production Option

(c) Heavy duty cerametalix brakes and suspension also available as a Regular Production Option.

(d) Back off 12 notches on sintered iron brakes.

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SUPPLEMENTARY INFORMATION

MODEL Corvette

Optional Heavy Duty Brakes (a)
(Not recommended for street use)

Type			Servo, 4 wheel hydraulic
Effective area (sq. in.)			121.5
Gross lining area (sq. in.)			121.5
Brake effectiveness, front			62%
Drum	Diameter	Front	11
		Rear	11
	Type & material		Composite; cast alloy iron rim, pressed steel web
Brake cooling at each wheel			Vanes cast on drum rim, air scoop on backing plate
Brake lining, front shoe	Attachment		Welded
	Material		Cerametalix
	Size	Front wheel	2.25 x 2.50 x .220
		Rear wheel	2.25 x 2.00 x .220
	Segments per shoe		2
Brake lining, rear shoe	Attachment		Welded
	Material		Cerametalix
	Size	Front wheel	2.25 x 2.50 x .220
		Rear wheel	2.25 x 2.00 x .220
	Segments per shoe		4
Wheel cyl. bore		Front	1.125
		Rear	.875
Master cylinder bore			1.0
Available pedal travel			4.5
Line pressure @ 100 lb. pedal load			700 approx.
Shoe clearance adjustment			Adjust to alight drag, back off 27-32 notches

(a) Available with heavy duty suspension as a Regular Production Option.

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MODEL Corvette

BRAKES—PARKING

Type of control		T-handle pull rod
Location of control		Below inst. panel, left of steering column
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

FRAME or UNITIZED CONSTRUCTION

Type and description	Full length welded box section side members, "I" beam "X" member. Bracing from "I" member to front side members. "U" type rear shoc absorber cross member. Box section front and rear cross members.

SUSPENSION—GENERAL (See Supplemental page 16 for details on Air Suspension)* (a)

Provision for car leveling		None
Provision for brake dip control		None
Provision for acc. squat control		None
Special provisions for car jacking		Scissors - type jack provided
Shock absorber front & rear	Type	Direct, double acting (c)
	Make	Delco
	Piston dia.	1.0 (b)
Other special features		Auxiliary radius rods in rear to control spring wind-up.

SUSPENSION—FRONT

Type and description	Unitized, independent, short & long arm

(Continued) Rev. Form 1-58

(a) Air suspension not available on Corvette

(b) 1-3/8 on optional heavy-duty brakes and suspension.

(c) Each contains nitrogen-filled envelope in fluid reservoir to prevent fluid aeration.

* Air Suspension:
Air spring type
Compressor data
type
make
drive ratio
Normal operating pressures
spring rates
leveling data

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MODEL Corvette

SUSPENSION FRONT (cont.)

Spring	Type	Coil	
	Material	Chrome alloy steel	
	Size (coil design height & I.D.; bar length x dia.	9.62x3.002x116.0x.550 (a)	9.12x3.175x105.0x.636 (b)
	Spring rate (lb. per in.)	300 (a)	550 (b)
	Rate at wheel (lb. per in.)	110 (a)	200 (b)
	Design load (lb. @ design height)	1235 @ 9.62 (a)	1145 @ 9.12 (b)
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	H.r.steel, .67-.70 (a)	H.r.steel, .81 (b)

STEERING

Mechanical (std., opt., NA)				Standard	
Power (std., opt., NA)				None	
Wheel diameter				17"	
Turning diameter	Outside front	Wall to wall (l. & r.)		Left: 39 feet, right: 38.5 feet	
		Curb to curb (l. & r.)		Left: 37 feet, right: 36.5 feet	
	Inside rear	Wall to wall (l. & r.)		NA	
		Curb to curb (l. & r.)		NA	
Outside wheel angle with inside wheel at 20°				17°	
Mechanical	Gear	Type		Semi-reversible, worm and ball bearing sector	
		Make		Saginaw	
		Ratios	Gear	16.0:1	
			Overall	21.0:1 (a)	16.3:1 (b)
	No. wheel turns			3.70 (a)	3.25 (b)
Power	Type			None	
	Make			-	
	Trade name			-	
	Gear	Type		-	
		Ratios	Gear	-	
			Overall	-	
	Pump driven by			-	
	Number wheel turns			-	
Linkage	Type			Center point	
	Location (front or rear of wheels, other)			Rear of wheels	
	Drag link (trans. or longit.)			Longitudinal	
	Tie rods (one or two)			Two	

(Continued)

(a) Regular production equipment
(b) Used with optional heavy duty brakes and suspension.

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MODEL Corvette

STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		3°30'-4°30'
	Bearings (type)	Upper	Bushing
		Lower	Bushing
		Thrust	Single row ball
Wheel alignment (range and preferred)	Caster (deg.) @ design load		2°±30'
	Camber (deg.) @ design load		0°±30'
	Toe-in (outside tread-inches) @ design load		.00 to .12 per wheel
Steering spindle & joint type			Reverse elliott
Wheel spindle	Diameter	Inner bearing	1.2810-1.2815
		Outer bearing	.7498-.7503
	Thread size		3/4-20
	Bearing type		Ball

SUSPENSION—REAR

Type and description				Outrigger mounted leaf springs
Drive and torq. taken through (see page 14)				Rear springs and radius rods
Spring	Type			Leaf, semi-elliptic
	Material			Chrome carbon steel
	Size (length x width, coil design height and I.D.; bar length & dia.)			51.0x2.0
	Spring rate (lb. per in.)			115 (a) | 145 (b)
	Rate at wheel (lb. per in.)			N.A.
	Design load (lb. at design height)			725 @ .08 negative camber height
	Mounting insulation type			Rubber bushed
	If leaf	No. of leaves		4 (a) | 5 (b)
		Inserts	Type and size	3 liners:19.8, 31.8, 46.3 lengths x 1.9 widths x .11 thick
			Material	Wax impregnated fibre board (c)
		Shackle (comp. or tens.)		Tension
Stabilizer	Type (link, linkless, frameless)			None
	Material			None
Track bar type				Longitudinal radius rods

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(a) Regular production equipment.
(b) Used with optional heavy-duty brakes and suspension.
(c) Liners used on reg. prod., not used with opt. heavy-duty equip.

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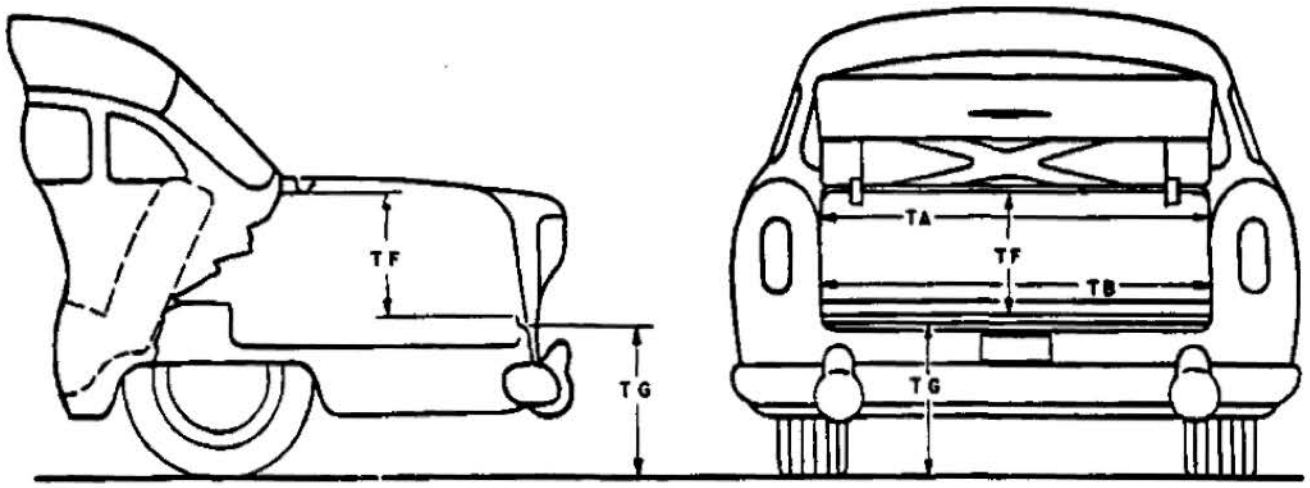
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by the S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Sub-Committee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., MA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
2. Front and rear seat "B" points are located on seat back 15" from center of body at height of horizontal tangent to top of seat cushion.
3. Front seat is in the full down and normal rearmost position.
4. Loaded position—5 passenger, front 300 lb., rear 450 lb.; includes spare wheel, tire and tools, and full complement of gas, oil, water, and tires to recommended pressure, etc.
5. C/L (centerline).
6. D. L. O. (daylight opening, exposed glass dimension - pages 21, 23 & 25).
7. Ramp breakover angle (page 21) is the supplement of the included ramp angle (180° minus the included ramp angle) over which a car can pass without hanging up.

MODEL	Corvette

BODY—TRUNK DIMENSIONS



Usable trunk luggage capacity (see Section H1 of SAE Automotive Drafting Standards)	4.474 cu. ft.
TA— Width across the top	44.8 (at widest point)
TB —Width across the bottom	Opening is oval
TF—Vertical dimension at C/L from bottom to top of opening.	13.8
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	18.1
Position of spare tire stowage	Horizontal in trunk under floor
Method of holding lid open	Counterbalance springs

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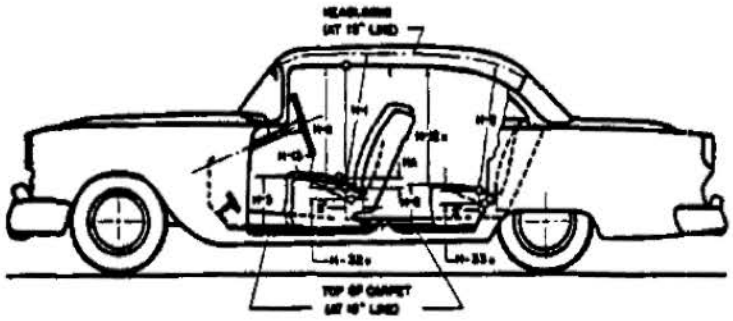
BODY—HEIGHT DIMENSIONS--INTERIOR



MODEL	Corvette
H1. Front headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line. (For "A" pt. see note 1, page 19)	Convertible: 35.3 Hard Top: 35.1
H2. Rear headroom—from free "A" pt. to headlining at 8° back of vertical on 15" line.	—
H3. Front cushion height above low point on floor carpet on 15" line (front edge of cushion).	7.3
H8. Rear cushion height above low point on floor carpet on 15" line (front edge of cushion).	—
H11. Entrance—front—cushion free "A" point to bottom windcord vertical.	29.7
H12a. Entrance — rear — top of cushion at vertical tangent to front of rear seat, to bottom of windcord in rear.	—
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance).	5.3
HA. Front seat maximum vertical rise at free "A" point.	N.A.
HF. Front seat maximum vertical rise of free "A" point with multiple-position seat.	Not used
H32a. Front seat depressed depth – vertical dimension from free "A" point to depressed "A" point.	N.A.
H33a. Rear seat depressed depth – vertical dimension from free "A" point to depressed "A" point.	—

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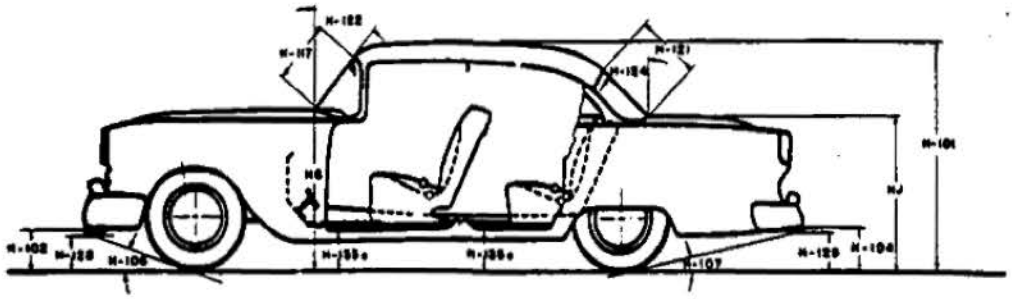
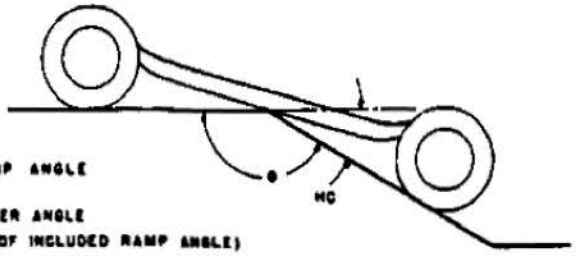
BODY—HEIGHT DIMENSIONS—EXTERIOR





θ - INCLUDED RAMP ANGLE

HC - RAMP BREAKOVER ANGLE
(SUPPLEMENT OF INCLUDED RAMP ANGLE)

MODEL	Corvette
H101. Overall height – loaded.	Convertible: 51.6 (a), Hardtop: 51.5
H8. Overall height – curb weight.	Convertible: 52.4 (b), Hardtop: 52.3
H102. Front bumper bottom to ground at normal section.	17.0
H104. Rear bumper bottom to ground at normal section.	15.3
H106. Angle of appr.-fr. tire static loaded rad. to interfering pt. on fr. bumper, gd., other.	20°33'
H107. Angle of dep.-fr. tire static loaded rad. to interfering pt. on rr. bumper, gd., other.	16°29'
HC. Ramp breakover angle.°	7°29'
H117. Windshield DLO-slant height.	17.3
H121. Backlight DLO°-max., slant height.	11.5
H122. Windshield slope angle to vertical line on car axis.	50°
H124. Backlight slope angle to vertical line on car axis.	N.A.
H128. Ground to bottom of front bumper guard.	9.0
H129. Ground to bottom of rear bumper guard.	8.9
H133a. Bottom of front door to ground, min. dimension – car loaded.	13.1
H135a. Bottom of rear door to ground, min. dimension – car loaded.	—
HD. Min. road clear. (5 pass. load) & loc.	5.9 Rear spring front hanger
HE. Min. road clearance at rear axle.	8.0
HG. Hood at rr. to grd.-vert. dim. excl. molding, fr. hood opening line at cowl (curb wt.)	36.5
HH. Max. ht., fr. grd. frt. of windshield (curb wt.)	38.3
HJ. Max. ht. fr. grd. back of r. window (curb wt.)	N.A.

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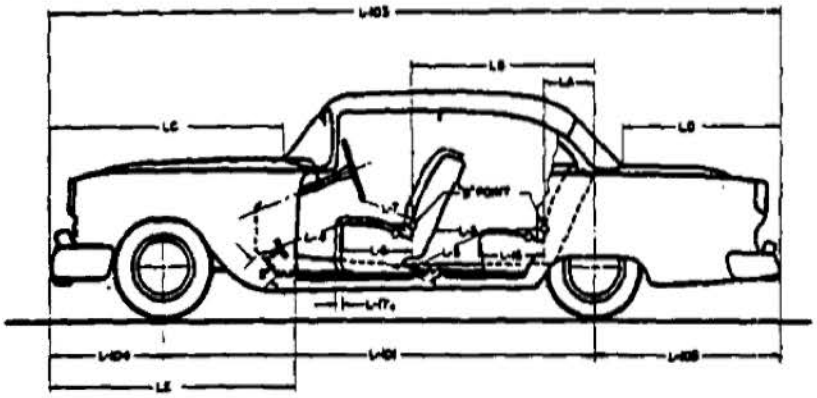
BODY—LENGTH DIMENSIONS



MODEL		Corvette
Interior	* L3. Rear compartment of front seat back to rear seat back.	—
	* L4. Leg room—front—ball of foot to top of seat to seat back—15" line.	45.1
	* L5. Leg room—rear—from ball of foot to top of seat cushion and to seat back.	—
	L7. Steering wheel clearance to seat back taken on arc.	16.0
	* L9. Front seat depth (front edge to vert. tan. to seat back on 15" line).	18.7
	* L16. Depth of rear seat (front edge to seat back).	—
	L17a. Total adjustment of front seat at front lower seat frame.	4.4
	LA. Rear seat "B" point to center line of rear axle.	—
	LB. Front seat "B" point to center line of rear axle.	23.7
	LC. Front of car to base of windshield.	70.1
	LD. Rear of car to base of rear window or upper structure.	N.A.
	LE. Front of car to front edge of front door.	76.7
Exterior	L101. Wheelbase.	102.0
	L103. Overall length (bumper to bumper inc. guards).	177.2
	L104. Overhang—front including bumper guards.	33.0
	L105. Overhang—rear including bumper guards.	42.4

* Dimension taken on 15" line—see notes 1 & 2, page 19.

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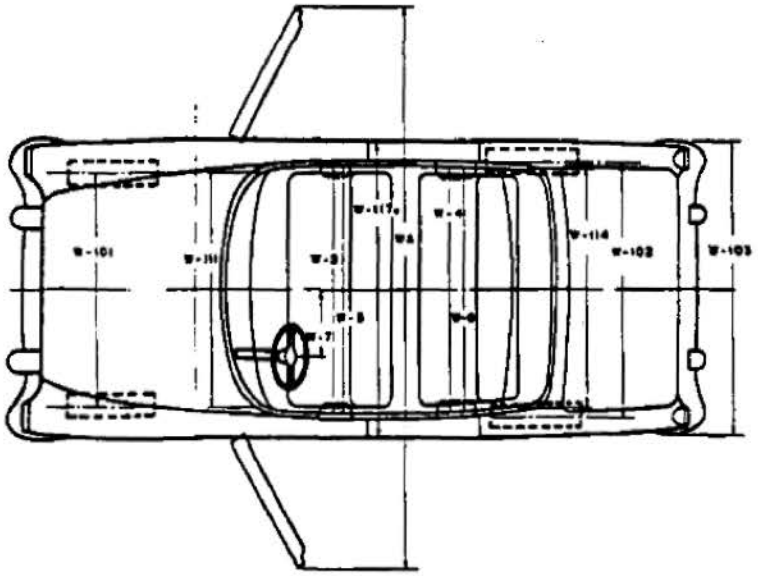
BODY—WIDTH DIMENSIONS



MODEL		Corvette
Interior	W3. Front shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	49.4
	W4. Rear shoulder room, at garnish moulding height or nearest interference 5" forward of seat back.	—
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back.	59.6
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back.	—
	W7. Steering wheel center to center of body.	13.9
Exterior	W101. Front tread at ground.	57.0
	W102. Rear tread at ground.	59.0
	W103. Max. overall width of car including bumpers or mouldings.	72.8
	WA. Max. overall width of car with doors open.	N.A.
	W111. Windshield DLO, max. width.	53.6
	W114. Back window DLO, max. width.	Convertible: 34.3, Hardtop: 47.9
	W117a. Max. body width at center pillar, less hardware and applied moldings.	—

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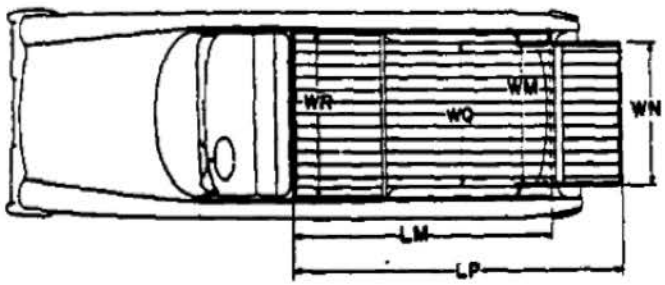
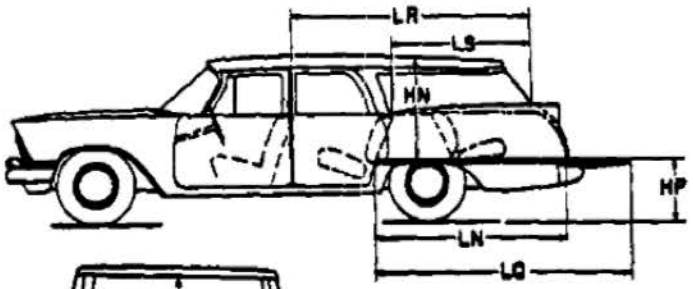
STATION WAGON—CARGO SPACE DIMENSIONS





NOTE: *Front seat in full down and rearmost position for all measurements.*

MODEL	Corvette
LM Floor length from bottom of front seat to inside of tail gate in raised position.	Not Applicable
LN Floor lgth. from bottom of second seat to inside of tail gate in raised position.	"
LP Floor lgth. from bottom of front seat to end of tail gate in lowered position.	"
LQ Floor lgth. from bottom of second seat to end of tail gate – tail gate lowered.	"
HM Maximum hgth. of rear opening – tail gate lowered.	"
WM Rear end opening width at floor.	"
WN Rear end ope :.g width at top of tail gate.	"
WQ Minimum distance between wheelhouses.	"
WP Maximum width of rear opening above raised tail gate.	"
WR Maximum width of cargo space at floor.	"
LR Cargo horizontal distance from top rear of front seat back to top of tail gate.	"
LS Cargo horizontal distance from top rear of second seat back to top of tail gate.	"
HN Maximum height of roof above floor at center line of car.	"
HP Platform height of end of lowered tail gate – curb weight.	"
Third Seat – facing direction.	"

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MODEL Corvette

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear) — Front doors	Front
Drs. hinged (front, rear) — Rear doors	---
Type of finish (lacquer, enamel).	Acrylic lacquer
Hood hinge location (front, rear).	Front
Hood counterbalanced (yes, no).	No (linkage)
Hood release control (internal, external).	Internal
Vehicle (Serial) No. Location	Left front body hinge pillar
Engine No. location	Front right side of cylinder block
Theft protection - type	Ignition, key not removable in "Off" (unlocked) position
Vent window control method (crank, friction pivot).	None
Windshield type (single curved, compound curved, other)	Single curved
Rear window type (flat, curved, one piece, three piece)	Folding top: one piece flexible plastic Hard top: one piece curved rigid plastic
Side glass type (curved, flat)	Flat
Windshield glass area D.L.O.	908 sq. in.
Backlight glass area D.L.O.	408 sq. in.
Total glass area D.L.O.	1816 sq. in.

BODY—TYPES AND STYLE NAMES —

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

BODY STYLES:		CODES:
Corvette	867	2-door convertible, 2-passenger

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MAJOR OPTIONAL ITEMS - WEIGHTS (ESTIMATED)

Corvette

Model	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
	Right	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
867 convertible			3035					2900

Accessories & Equipment Differential Weights				Remarks
Axle, Positraction			+ 6	All vehicle and equipment weights
Brakes & suspension, H.D.			+ 77	are estimated. Equipment weights
Carburetors, dual 4 bbl.			+ 17	are average.
Fuel Injection			- 7	
Hardtop (a)			- 2	(a) In lieu of folding top.
(b)			+ 58	(b) In addition to folding top.
Heater			+ 20	
Radio			+ 16	
Sunshade (pair)			+ 2	
Tires, whitewall			+ 1	
Top, hydraulic lift equip			+ 34	
Transmission, 4-speed			+ 12	
Transmission, Powerglide			+101	
Windows, power			+ 7	
Windshield washers			+ 4	
Wheels, 15-5.50K			- 2	