AMA-40A

AMA Specifications – Passenger Car

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MAKE OF CAR CHEVROLET **MODEL YEAR** 1960 **DATE: ISSUED** 10-2-59 **REVISED** 12-1-59

COMPANY Chevrolet Motor Division, General Motors Corporation

MODEL NAME	SYMBOL	MODEL NAME	SYMBOL
Corvette	867		

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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 the standard model without optional equipment. Significant deviations are noted.
   b. Specifications apply basically to 4-door sedan or equivalent.
   c. Nominal design dimensions are used throughout these specifications.

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.	Corvette
Wheelbase (L-101)		23	102.0
Tread	Front (W-101)	24	57.0
	Rear (W-102)	24	59.0
Maximum Overall Dimensions	Length (L-103)	23	177.2
	Width (W-103)	24	72.8
	Height (H-101)	22	51.6
Transmission—(Specify trade name - opt., not available)	Manual	13	3-speed (standard); 4-speed (optional)
	Overdrive	14	None
	Automatic	14	Powerglide (optional)
Axle ratio	Manual	15	3.70:1
	Overdrive	15	None
	Automatic	15	3.55:1
Tire size		16	6.70x15-4 pr
Engine	Type, no. cyl., valve arr.	2	90° V-8, OHV
	Fuel system (Carb. or Inj.)	6	Carburetor
	Bore and stroke	2	3.875x3.000
	Piston displ., cu. in.	2	283.0
	Std. compression ratio	2	9.5:1
	Max. bhp at engine rpm	2	230 @ 4800
	Max. torque at rpm	2	300 @ 3000

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MODEL Corvette

		4-barrel	Dual 4-bbl.		Fuel Injection	
			Reg. cam	Spec. cam	Reg. cam	Spec. cam

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V-8, OHV				
Bore and stroke		3.875x3.000				
Piston displacement, cu. in.		283.0				
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	None			
	Optional	None	9.5:1		11.0:1	
Cylinder Head Material -	Standard	Cast alloy iron				
	Optional	Cast aluminum alloy (Fuel Injection)				
Cylinder Sleeve -Wet, dry, none		None				
Number of mounting points	Front	Two				
	Rear	One				
Engine installation angle		1°				
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		48.0				
Published max. bhp at engine RPM*	Standard	230 @ 4800				
	Optional	None	245 @ 5000	270 @ 6000	275 @ 5200	315 @ 6200
Published max. torque* (lb. ft. @ RPM)	Standard	300 @ 3000				
	Optional	None	300 @ 3800	285 @ 4200	305 @ 4400	295 @ 47-5100
Recommended fuel regular - premium	Standard	Premium				
	Optional	Premium				
Recommended idle speed (neutral)		475 (3-speed); 475 (automatic)*				

ENGINE—PISTONS

Material	Cast aluminum alloy	
Description and finish	Flat head, slipper skirt autothermic having machined relief for valve clearance (a)	
Weight (piston only) oz.	20.40	21.12

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

(Continued)

(a) Modified dome having machined relief for valve clearance with fuel injection.

* Automatic in drive.

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POWER TEAMS
(Indicate whether standard or optional)

SERIES	ENGINE				TRANSMISSION	AXLE RATIO (Std. first)
	Displacement	Carburetor	Compression Ratio	BHP		
Corvette 867	283	4-bbl. (Std)	9.5:1	230@ 4800	3-speed 4-speed	3.70* (Std) 4.11* 4.56*
					Powerglide	3.55 (Std)
		2x4-bbl. (Opt)	9.5:1	245@ 5000	3-speed 4-speed	3.70* (Std) 4.11* 4.56*
					Powerglide	3.55 (Std)
		2x4-bbl. (spec. cam) (Opt)	9.5:1	270 @ 6000	3-speed 4-speed	3.70* (Std) 4.11* 4.56*
		Fuel Inj. (Opt)	11.0:1	275 @ 5200	3-speed 4-speed	3.70* (Std) 4.11* 4.56*
		Fuel Inj. (spec. cam) (Opt)	11.0:1	315 @ 6200	3-speed 4-speed	3.70* (Std) 4.11* 4.56*

(*) Standard ratio available with standard or limited-slip axle; optional ratios available with limited-slip axle only.

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MODEL Corvette

			2x4-bbl.		Fuel Injection	
		4-barrel	Reg. cam	Spec. cam	Reg. cam	Spec. cam

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.035-.043
	Skirt	Top	.0016-.0020
		Bottom	
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 OD
	Width		.0775-.0780 Upper .0770-.0780 (c) Lower .0770-.07
	Gap		.010-.020
Oil	Description - material, type, coating, etc.	Steel rails (a)	Cast alloy iron Multi-piece Chrome plated OD
	Width	.187-.189	.1860-.1865
	Gap	.015-.055	.010-.020
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.)		19.02
Length (center to center)		5.699-5.701
Bearing	Material & Type	Extra-life steel backed babbitt - removable (b)
	Overall length	.817
	Clearance (limits)	.0007.0027
	End play	.008-.014

(a) Stainless steel spacers.

(b) With special camshaft, premium aluminum bearings.

(c) Upper flash chrome plate.

(d) Upper .004-.007 chrome plate.

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MODEL Corvette

	4-barrel	2x4-bbl.		Fuel Injection	
		Reg. cam	Spec. cam	Reg. cam	Spec. ca

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		Extra-life steel backed babbitt - removable (a)
	Clearance		.0008-.0034
	Journal dia. and bearing overall length	No. 1	2.2983x.762
		No. 2	2.2983x.762
		No. 3	2.2983x.762
		No. 4	2.2983x.762
		No. 5	2.2983x1.169
		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		Extra-life 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

		Standard	Mech.	Standard	Mech.
Hydraulic lifters (Std, opt, NA)					
Valve rotator, type (intake, exhaust)		None			
Rocker ratio		1.5:1			
Operating tappet clearance (Indicate hot or cold)	Intake	Zero	.012 (hot)	Zero	.012 (ho
	Exhaust	Zero	.018 (hot)	Zero	.018 (ho
Timing marks on flywheel, damper, other		Damper			

(a) With special camshaft, #1 thru #4 are premium aluminum bearings.

(Continued)

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MODEL Corvette

ENGINE—VALVE SYSTEM (cont.)

			4-barrel	Dual 4-bbl. Reg. cam	Dual 4-bbl. Spec. cam	Fuel Injection Reg. cam	Fuel Injection Spec. cam
Timing	Intake	Opens (°BTC)		12°30'	35	12°30'	35
		Closes (°ABC)		57°30'	72	57°30'	72
		Duration - deg.		250	287	250	287
	Exhaust	Opens (°BBC)		54°30'	76	54°30'	76
		Closes (°ATC)		15°30'	31	15°30'	31
		Duration - deg.		250	287	250	287
	Valve opening overlap			28°	66°	28°	66°
Intake	Material			High alloy steel			
	Overall length			4.902-4.922	4.870-4.890	4.902-4.922	4.870-4.
	Actual overall head dia.			1.715-1.725			1.935-1.
	Angle of seat & face			46° and 45°			
	Seat insert material			None			
	Stem diameter			.3415-.3422			
	Stem to guide clearance			.0010-.0027			
	Lift			.3987	.394	.3987	.394
	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.)					
Exhaust	Material			High alloy steel			
	Overall length			4.913-4.933	4.891-4.911	4.913-4.933	4.891-4.
	Actual overall head dia.			1.495-1.505			
	Angle of seat & face			46° and 45°			
	Seat insert material			None			
	Stem diameter			.3410-.3417			
	Stem to guide clearance			.0015-.0032			
	Lift			.3987	.400	.3987	.400
	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.)					

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 spray
	Cylinder walls	Pressure, jet cross spray

(Continued)

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MODEL Corvette

4-barrel	Dual 4-barrel	
	Reg. cam	Spec. cam

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, s[illegible]	Full flow
Filter replacement (element, complete	Element
Capacity of crankcase, less filter-refill (qt.)	5.0
Oil grade recommended (SAE viscosity and temperature range)	32[illegible]ve - SAE 20W, SAE 20, SAE 10W-30 0°F and[illegible] - SAE 10W, SAE 10W-30 Below 0°[illegible] E 5W, SAE 5W-20 Sustained h[illegible] peed 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; straight thru with special cams
Exhaust pipe dia. (O.D. & wall thickness) Branch	None
Exhaust pipe dia. (O.D. & wall thickness) Main	2.0x.0625
Tail pipe diameter (O.D. & wall thickness)	1.87x.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) (a)		
Fuel Tank	Capacity (gals.)		16.4 (b)		
	Filler location		Rear of left door opening		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Location		Lower right front corner of engine		
	Pressure range		5.25-6.50		
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Sintered bronze		
	Location		Carburetor inlet		
Carburetor	Make		Carter		
	Model	Front (c)	~~3779178~~ 3750676	3744002	3741089
		Rear (c)		3744004	3741090
	Number of carbs., bbls. per carb. & type		One, 4-bbl., downdraft	Two, 4-bbl., downdraft	
	Barrel size		1.3125		
	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air clnr. type	Standard	Oil wetted		
		Optional	Paper element (Fuel Injection)		

(a) See Supplement to Page 6 for details of Fuel Injection.

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(b) 24.0 gallon; fiberglass material; for use with hardtop models (soft tops cannot belowered into top well) (LPO 1625)

(c) Apply to Dual 4-bbl carburetors only.

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SUPPLEMENTARY INFORMATION

Engine Fuel System - Fuel Injection

MODEL Corvette

Injection System	Make	Rochester Products
	Model	7017310 (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 center
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	Flexible shaft from distributor
	Pressure (max.)	300 psi
Injection Nozzles	Number used	Eight
	Material	Brass
	Location	Mounted on inlet manifold above inlet 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 engine compartment are [illegible] ed with Fuel Injection.

(b) 7017320 with special camshaft.

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MODEL Corvette

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			6.25-7.75 psi
Circulation thermostat	Type (choke, bypass)		Bypass
	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 (c)
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	—
Fan	Number of blades & Spacing		Four, staggered
	Diameter		17.12
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		Optional (a)
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		A
	Generator		A
	Water Pump		A
	Power Steering		None
	Air Conditioning		None

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

(a) Viscous coupling, 5-blade, 17.12" dia. fan, fan speed limited to 3100 rpm.

(b) Pitch length.

(c) Aluminum cross flow (drawn cup construction) radiator and 13 psi radiator cap used with special camshaft engines.

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MODEL Corvette	4-barrel	2x4-bbl.	Fuel Injection	
			Reg. cam	Spec. cam

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco, 1980458	
	Voltage Rtg. & Total Plates		12 volts, 54 plate	
	SAE Designation & Amp Hr. Rtg		2SMR, 53 amp. hr. @ 20 hr. rate	
	Location		Right rear side of engine compartment	
	Terminal grounded		Negative	
Generator	Make		Delco Remy	
	Model		1102043	1102173
	Type		Two brush, shunt wound	
	Ratio—Gen. to Cr/s rev.		2.0:1	1.66:1
	Gen. cut-in (hot)—engine rpm		620	745
Regulator	Make		Delco Remy	
	Model		1119001	1119002
	Type		Vibrator	
	Cutout relay	Closing voltage @ generator rpm	11.8-13.5@1300	
		Reverse current to open		
	Regulated	Voltage	13.8-14.8	
		Current	27-33	33-37
	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		
	Test conditions		Engine at operating temperature
	Lock test	Amps	
		Volts	
		Torque (lb. ft.)	
	No load test	Amps	75 (max.)
		Volts	10.3
		RPM (min.)	6900
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		3 and 4-speed, depress clutch and shift into neutral; Powerglide - place selector lever in "N" (Neutral) or "P" (Park). Depress accelerator pedal to floorboard to set automatic choke, release. Turn ignition to extreme right to engage starting motor.

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MODEL Corvette	4-bbl	Dual 4-bbl	Fuel Injection	
			Reg cam	Spec cam

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		1115107	
	Amps	Engine stopped	4.0			
		Engine idling	1.8			
Distributor	Make		Delco Remy			
	Model		1110946	1110891(a)	1110915	1110914(a
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0 @ 600			0 @ 1000
		Intermediate points deg. @ rpm	14 @ 1500			5 @ 1500
		Max deg. @ rpm	28 @ 3700			22 @ 6000
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0 @ 8	None	0 @ 4.75	None
		Intermediate points, deg @ in Hg		None		None
		Max. deg. in. Hg.	15 @ 15.5	None	24 @ 13.5	None
	Breaker gap (in.)		.019			
	Cam angle (deg.)		26-33	29± 1 (b)	26-33	29± 1 (b)
	Breaker arm tension (oz.)		19-23			
Timing	Crankshaft deg. @ rpm.		4° BTC	12° BTC	8° BTC	18° BTC
	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 44		AC 44-FF	
	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

Locations & type	Non-metallic high tension cable

(a) Dual breaker points

(b) Per breaker, 33° ± 1 total cam angle (both breakers)

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MODEL Corvette

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	Counterclockwise from vertical --------- Off, Lock Vertical ---------- Off, unlocked 1st pos. clockwise from vertical-------- On, ign & accessorie 2nd pos. clockwise from vertical ------- 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 -instrument panel, parking, tail, license lamps 2nd notch -instrument panel, head, tail, license lamps Rotate clockwise to dim or turn off instrument panel lamps, counterclockwise to turn on or brighten panel lamps.
Other light switches	Locations and lamps controlled	Toe panel ---------- Headlamp dimmer Steering column ---------- Turn signal Hinge pillars ---------- Courtesy lamps (a, b) Brace below instrument panel ------- Stop lamps Parking brake handle shaft ---------- Parking brake alarm lamp (d)
Other switches	Locations and devices controlled	Instrument panel, center ---------- Power folding top (c) Instrument panel, left ---------- Electric w/s wipers Door panels, LH and RH ---------- Electric window lifts Instrument panel, lower ---------- Radio (a) Instrument panel, lower ---------- Heater blower (a)
Windshield wiper	Make	Delco
	Type	Electric, 2-speed
	Vacuum booster provision	None
	Washer provision	Factory Option Accessory (d)
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8.0-11.0 @ 12.5 volts

(a) Available as Factory Option Accessory

(b) Switch on lamp housing only

(c) Available as Regular Production Option

(d) Includes co-ordinator and vacuum reserve tank

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MODEL Corvette

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			Three	Four
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 thru 4th
Lubricant	Capacity (pt.)		2.0	1.5
	Type recommended		A-9 mineral lubricant	
	SAE viscosity number	Summer	SAE-90	
		Winter	SAE-90	
		Extreme cold	SAE-80	

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1960 DATE: ISSUED 10-2-59 REVISED

MODEL Corvette

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 (pt.) (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-R-N-D-L
List gear ratios Selector Pattern and indicate which are used in each selector position		Drive 1.82 and 1.00:1 (a) Low 1.82:1 Reverse 1.82:1
Max. upshift speeds—drive range		55
Max. kickdown speeds—drive range		50
Torque convertor	Number of elements	3
	Max. ratio at stall	2.1:1
	Type of cooling (air, water)	Air
Lubricant	Capacity—refill (pt.)	9
	Type recommended	"A" suffix "A"
Special transmission features		Three element hydraulic torque converter with automatic planetary gear system for reverse and low

(a) Total transmission torque multiplication - 3.82:1

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MODEL Corvette

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

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MODEL Corvette

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 (g)
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	(b)
Clock light	(c)
Radio	Light (c); Receiver 3 AG/AGC 7.5 amp
Glove compartment light	None
Park brake alarm	(b)
Power windows	40 CB (d)
Heater blower	(b)
Cig lighter light	(c)
Power top	(d) and 2 SAE 30 amp

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	27.8
		Highest	27.8
	Stop		27.8
	Backup		None
	License, rear		16.3
	Directional	Front	12.5
		Rear	27.8
	Headlamp	Inside	28.2
		Outside*	28.2
Distance from C/L of car to center of bulb	Tail	Inside	- - -
		Outside	29.6
	Stop		29.6
	Backup		None
	License, rear		8.5
	Directional	Front	19.2
		Rear	29.6
	Headlamp	Inside	22.8
		Outside*	29.1

* If single headlamps are used enter here.

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MODEL Corvette

DRIVE UNITS—PROPELLER SHAFT

Number used			One
Type (exposed, torque tube)			Exposed
Outer diameter x length* x wall thickness	Manual transmission		2.5 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		Two
	Type (ball and trunnion, cross, other)		Yoke and 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. Positraction-semi-floating, overhung pinion gear. Spicer limited slip with dual 4-disc clutches applied by reaction torqu through differential side gears.
Drive Pinion Offset			1.5
No. of differential pinions			2 (a)
Gear ratio and No. of teeth	Automatic transmission		3.55: 1 (9-32)
	Overdrive trans.		None
	Manual transmission		3.70:1 (10-37) (b)
Ring gear pitch diameter & O.D.			8.375 PD and OD
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			None
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		4.0
	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) 4 pinions in Positraction axle

(b) Optional Positraction axles available with 3.70(10-37), 4.11 (9-37) and 4.56 (9-41) ratios with synchromesh transmissions. Positraction not available with automatic transmission.

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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 (List option below)	Size & ply	6.70 x 15-4 pr (blackwall)(c)
	Type - Nylon, etc.	Rayon
Rev/mile at 30 mph.		760
Inflation press.(cold)	Front	24
	Rear	24

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)				Servo, 4 wheel hydraulic	
				Production	Optional (RPO 686) (d)
Power brake make & type (remote, integral, etc.)				None	
Effective area (sq. in.)*				157.0	108.0
Gross lining area (sq. in.)**				157.0	120.0
Percent brake effectiveness—front				56.0	58.5
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	2.0 x 1.0 x .205
			Rear wheel	9.29 x 1.75 x .175	2.0 x 1.0 x .325
		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	2.0 x .875 x .205
			Rear wheel	11.69 x 1.75 x .175	2.0 x .875 x .325
		Segments per shoe		1	10
Wheel cylinder bore	Front			1.1875	
	Rear			1.000	
Master cylinder bore				1.000	
Available pedal travel				4.50	
Line pressure at 100 lb. pedal load				700 PSI	
Shoe clearance adjustment				Adjust to light drag, back off 7 notches (b)	

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

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

(b) Back off 12 notches with sintered iron brakes

(c) Whitewall tire available as Regular Production Option

(d) Optional heavy-duty brake package (RPO 687) See supplement to page 16.

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SUPPLEMENTARY INFORMATION

MODEL Corvette

Optional Heavy Duty Brakes (RPO 687) *

Type			Servo, 4 wheel hydraulic
Effective area (sq. in.)			124.0
Gross lining area (sq. in.)			129.8
Brake effectiveness, front			62%
Drum	Diameter	Front	11
		Rear	11
	Type & material		Composite; cast alloy iron rim pressed steel w
Brake cooling at each wheel			Vanes cast on drum rim, air scoop on backing plate, fans between drum and wheel hub.
Front Brake Lining	Attachment		Riveted
	Material		Sintered iron
	Size	Front wheel	1.64x1.25x.205
		Rear wheel	1.64x1.25x.325
Front Shoe	Segments per shoe		Primary - 6 ; Secondary - 12
Rear Brake Lining	Attachment		Riveted
	Material		Sintered iron
	Size	Front wheel	2.0x.875x.205
		Rear wheel	2.0x.875x.325
Rear Shoe	Segments per shoe		Primary - 6; Secondary - 10
Wheel cyl bore		Front	1.125
		Rear	0.875
Master cylinder bore			1.0
Available pedal travel			4.5
Line pressure @ 100 lb pedal load			700 PSI
Shoe clearance adjustment			Adjust to slight drag, back off 17 notches

* - RPO 687 includes fast steering adapter.

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MODEL Corvette

BRAKES—PARKING

Type of control		T-handle pull rod
Location of control		Below instrument 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" men Bracing "X" member to front side members. "U" type rear shoc absorber cross member. Box section front and rear cross mem

SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)*

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 unit & rear	Type	Direct double acting (a)
	Make	Delco
	Piston dia.	1.0
Other special features		Auxiliary rear radius rods control spring wind-up

SUSPENSION—FRONT

Type and description	Unitized, independent, short and long arm

(Continued) Rev. Form 3-59

(a) 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 – design height, O.D., bar length x dia.	9.62 x 3.002 x 116.0 x .550
	Spring rate (lb. per in.)	300
	Rate at wheel (lb. per in.)	110
	Design load (lb. @ design height)	1235 @ 9.62
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	HR steel, .67-.70

STEERING

Mechanical (std., opt., NA)				Standard	
Power (std., opt., NA)					
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.)			
		Curb to curb (l. & r.)			
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	16.3:1 @
	No. wheel turns			3.7	3.25 @
Power	Type (coaxial, linkage, etc.)			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)

@ - Special steering part of cerematalix brake option.

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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.)		2°±30'
	Camber (deg.)		0°±30'
	Toe-in (outside tread-inches)		.00-.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 15)				Rear springs and radius rods
Spring	Type			Leaf, semi-elliptic
	Material			Alloy steel
	Size (length x width, coil design height and I.D.; bar length & dia.)			51.0 x 2.0
	Spring rate (lb. per in.)			115 (a)
	Rate at wheel (lb. per in.)			
	Design load (lb. at design height)			725 @ .08 negative camber height
	Mounting insulation type			Rubber bushed
	If leaf	No. of leaves		4 (a)
		Inserts	Type and size	Liners; 19.8, 31.8, 46.3 long; 1.9 wide; .11 thick
			Material	Wax impregnated fibre board
		Shackle (comp. or tens.)		Tension
Stabilizer	Type (link, linkless, frameless)			Link
	Material			Hot rolled steel
Track bar type				None

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(a) Regular production equipment

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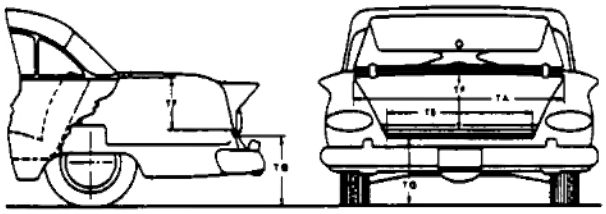
BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These ar 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., HA. Symbol "a" added as suffix to SAE dimensior indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body Dimensions are for all basic body models as indicated.
2. All interior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "R" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. Unless otherwise specified all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
7. DLO (Daylight opening - pages 22 & 24).
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

BODY—TRUNK DIMENSIONS



MODEL	Corvette
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	4.474 cu. ft.
Total trunk volume in cu. ft. with spare tire in place	
TA—Width across the top	44.8
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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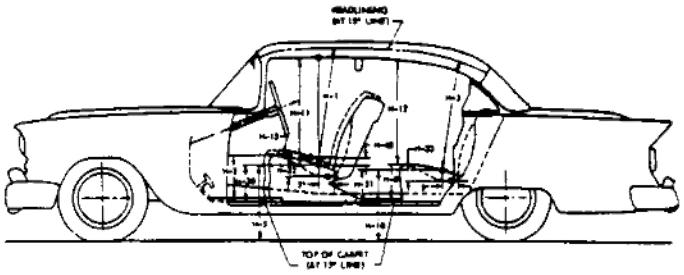
BODY—HEIGHT DIMENSIONS—INTERIOR



MODEL	Corvette
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	Convertible - 35.3 Hardtop - 35.1
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	--
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	7.3
H5. Free "A" pt. to ground, front. Measured vertically	16.0
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	--
H10. Free "A" point to ground rear. Measured vertically	--
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	29.7
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	--
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	5.3
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	4.8
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	--
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	2.2
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	--
H45. Front seat maximum vertical rise at free "A" point	.2

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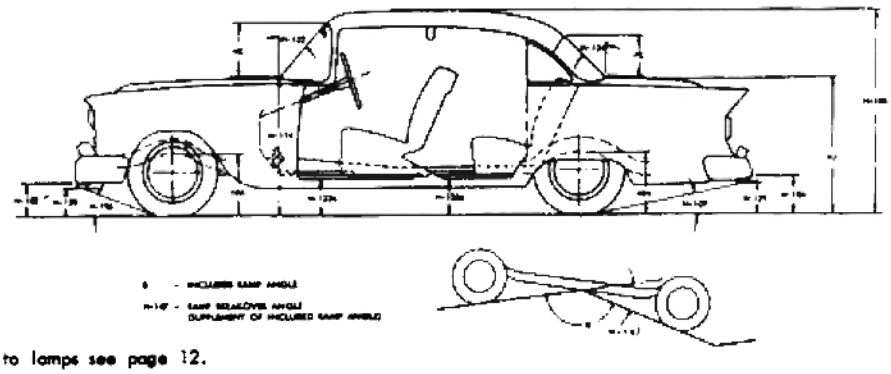
BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	Corvette
H101. Overall height, full design load	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, min. height	17.0
H104. Rear bumper bottom to ground at normal section, min. height	15.3
H106. Angle of approach. To interfering point on bumper, guard, other	20°33'
H107. Angle of departure. To interfering point on bumper, guard, other	16°29'
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	36.5
H122. Windshield normal slope angle to vertical line on car C/L	50°
H124. Backlight normal slope angle to vertical line on car C/L	
H128. Bottom of front bumper guard to ground	9.0
H129. Bottom of rear bumper guard to ground	8.9
H133a. Bottom of front door to ground, min. dimension	13.1
H135a. Bottom of rear door to ground, min. dimension	--
H147. Ramp breakover angle	7°29'
H153. Min. road clearance at rear axle	8.0
H156. Min. road clearance and location	5.9 (c)
HJ. Deck at rear window to ground	35.2
HK. Windshield DLO*. Vertical height at C/L	12.3
HL. Back light DLO*. Vertical height at C/L	8.3
HM. Bottom of frame to ground at C/L of front axle, min. height	15.6
HN. Bottom of frame to ground at C/L of rear axle, min. height.	17.0

* See Note, page 20

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(a) Top down - 49.7

(b) Top down - 50.4

(c) Rear spring front hanger

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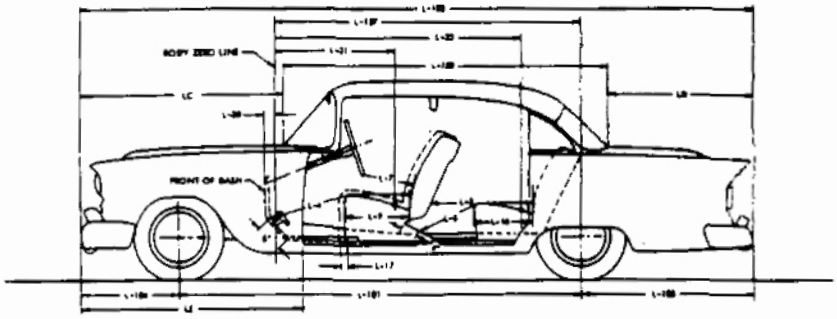
BODY—LENGTH DIMENSIONS



MODEL		Corvette
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	--
	L4. Leg room, front. Ball of foot to top of seat to seat back	45.1
	L5. Leg room, rear. Ball of foot to top of seat to seat back	--
	L7. Steering wheel clearance to seat back taken on arc	16.0
	L9. Front seat depth. Front edge to vert. tan. of seat back	18.7
	L16. Rear seat depth. Front edge to vert. tan. of seat back	--
	L17. Maximum "A" point horizontal travel with normal seat adjustment	4.4
	L30. Vertical body zero line to actual front of dash. Measured horizontally*	.5
	L31. Vertical body zero line to free "A" point, front	41.8
	L32. Vertical body zero line to free "A" point, rear	--
Exterior	L101. Wheelbase	102.0
	L103. Overall length. Incl. bumper guards if standard equipment	177.2
	L104. Overhang, front. Include bumper guards if stand. eq.	33.0
	L105. Overhang, rear. Include bumper guards if stand. eq.	42.2
	L123a. Body upper structure length at C/L, excl. molding	61.0
	L127. Vertical body zero line to centerline of rear wheels	74.1
	LC. Front of car to base windshield, excl. molding	70.1
	LD. Rear of car to base of rear window or upper structure, excl. molding	47.0
	LE. Front of car to front edge of front door	76.7

* Precede figure with minus sign if front of dash is to rear of body zero line.

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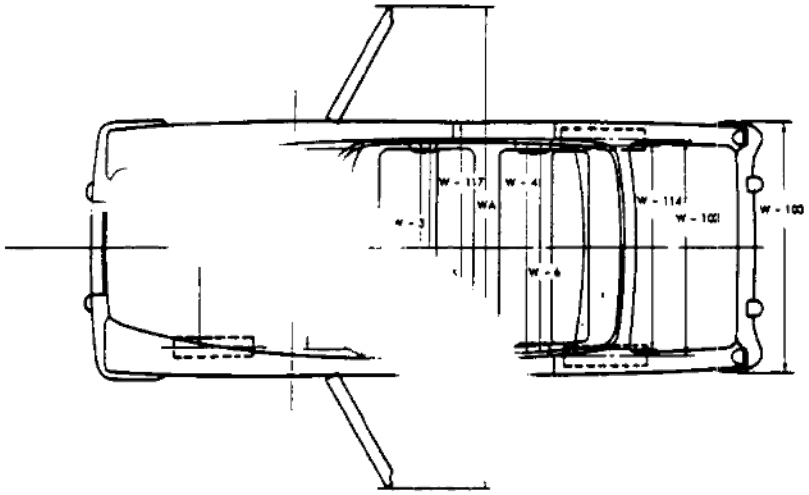
BODY—WIDTH DIMENSIONS



MODEL		Corvette
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	49.4
	W4. Rear shoulder room, at garnish molding 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 (on surface plane of wheel) to C/L 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 moldings	72.8
	WA. Max. overall width of car with doors open (2 & 4 door)	133.5
	W111. Windshield DLO, max. width	53.6
	W114. Back window DLO, max. width	Hardtop 47.9; Convertible 34.3
	W117. Max. body width at center pillar, less hardware and applied moldings	70.3

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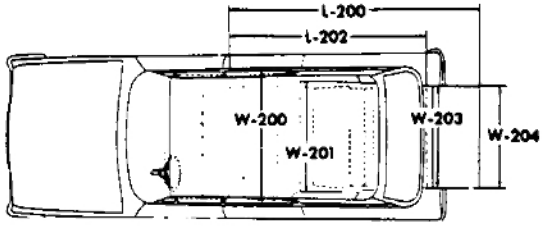
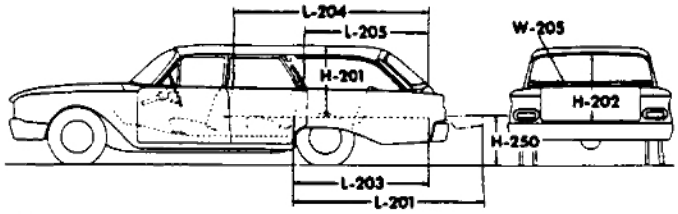
STATION WAGON—CARGO SPACE DIMENSIONS





NOTE: Front seat in full down and normal rear position for all measurements. Lengths and heights measured at car centerline.

MODEL	Corvette
L200 Floor length from back of front seat at floor level to end of lowered tail gate	--
L201 Floor length from back of second seat at floor level to end of lowered tail gate	--
L202 Floor length from back of front seat at floor level to inside of closed tail gate	--
L203 Floor length from back of second seat at floor level to inside of closed tail gate	--
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate	--
L205 Minimum horizontal distance from top rear of second seat back to inside of top tail gate	--
W200a Maximum width of cargo space at floor, specify location	--
W201 Minimum distance between wheel houses at floor level	--
W203 Rear end opening width at floor	--
W204 Rear end opening width at top of tail gate	--
W205 Maximum width of rear opening above raised tail gate	--
H201 Maximum height, floor covering to headlining	--
H202 Maximum height of rear opening, tail and lift gates open	--
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight	--
Third Seat, facing direction	--
Tail and lift gates or sliding glass	--

MAKE OF CAR CHEVROLET MODEL YEAR 1960 DATE: ISSUED 7-15-59 REVISED

MODEL Corvette

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear) — Front doors	Front
Drs. hinged (front, rear) — Rear doors	--
Type of finish (lacquer, enamel, other)	Acrylic lacquer
Hood hinge location (front, rear)	Front
Hood counterbalanced (yes, no)	No
Hood release control (internal, external)	Internal
Vehicle (Serial) No. Location	LF body hinge pillar
Engine No. Location	Front right side of cylinder block
Theft protection - type	key not removable in "Off" (unlocked) position
Vent window control me (crank, friction pivot) — Rear	None
	None
Seat spring type (coil, zigzag, etc.)	Zigzag
Windshield type (single curved, compound curved, other)	Single curved
Rear window type (flat, curved, one piece, three piece)	Folding top - one-piece flexible plastic Hardtop - one-piece curved plastic
Side glass type (curved, flat)	Flat
Side glass exposed surface area	500 sq. in.
Windshield glass exposed surface area	908 sq. in.
Backlight glass exposed surface area	408 sq. in.
Total glass exposed surface area	1816 sq. in.

BODY—TYPES AND STYLE NAMES—

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

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

AMA Specifications – Passenger Car

MAKE OF CAR CHEVROLET MODEL YEAR 1960 DATE: ISSUED 10-2-59 REVISED 12-1-59

MAJOR OPTIONAL ITEMS - WEIGHTS

	CURB - WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
				Pass. in Front		Pass. in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
Model								
867 Convertible			2985					2840

Accessories & Equipment Differential Weights				Remarks
Axle, limited slip			+9	
Carburetors, dual 4 bbl.			-18	
Fuel injection			-8	
Hardtop (a)			-5	
(b)			+56	(a) In lieu of folding top
Heater			+10	(b) In addition to folding top
Radio			+16	
Sunshade (pair)			+2	
Tire, whitewall			+3	
Top, hydraulic lift equip.			+34	
Transmission, 4-speed			+12	
Transmission, Powerglide			+97	
Windows, power			+13	
Windshield washers			+4	
Wheels, 15-5, 50K			-1	

* These are weights that are reported to states for licensing purposes.

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