

AMA Specifications—Passenger Car

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MANUFACTURER Chevrolet Motor Division General Motors Corporation	CAR NAME CORVETTE
MAILING ADDRESS	MODEL YEAR 1968
	ISSUED: 10-15-67 REVISED (e)

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment; Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.

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Car & Body Dimensions	1, 2	Drive Units	14	Suspensions	21
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BODY - TYPES AND STYLE NAMES -

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

427 Cu. In.
V-8 430 HP
Opt (L88)

2-Door Sport Coupe, 2-Pass.

19437

2-Door Convertible, 2-Pass.

19467

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (*)

CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

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

MODEL	19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	
				SOFT TOP	HARDTOP

WIDTH

Track - Front	W101	58.3	
Track - Rear	W102	59.0	
Maximum overall car width	W103	69.2	
Width at No. 2 pillar	W117		

LENGTH

Body "O" to front of dash	L 30		
Wheelbase	L101	98.0	
Overall car length	L103	182.1	
Overhang - front	L104	40.2	
Overhang - rear	L105	43.9	
Body upper structure length	L123	54.7	
Body "O" line to ϵ of rear wheel	L127	72.0	
Body "O" line to w/s cowl point	L130	11.6	

HEIGHT

Overall height	H101	47.8	
Cowl height	H114	26.6	
Deck height	H138		
Rocker panel - front	To ground		7.6
	From front wheel ϵ	H112	
Rocker panel - rear	To ground		7.6
	From rear wheel ϵ	H111	
Windshield slope angle	H122	57	

GROUND CLEARANCE

Bumper to ground - front	H102	9.2	
Bumper to ground - rear	H104	12.3	
Angle of approach	H106	22	
Angle of departure	H107	21	
Ramp breakover angle	H147	22	
Min. running clearance (Specify)	H156	4.9 (Exhaust 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	19400	SAE Ref. No.	SPORT COUPE	CONVERTIBLE	
				SOFT TOP	HARDTOP

FRONT COMPARTMENT

Effective head room	H61	36.2	37.1	36.0
Max. eff. leg room - accelerator	L34		43.0	
H Point to Heel point	H30		6.5	
H Point travel	L17		4.5	
Shoulder room	W 3		46.9	
Hip room	W 5		48.8	
Upper body opening to ground	H50		43.6	

REAR COMPARTMENT

H Point couple distance	L50		--	
Effective head room	H63		--	
Min. effective leg room	L51		--	
H Point to Heel point	H31		--	
Min. knee room	L48		--	
Rear Compartment room	L 3		--	
Shoulder room	W 4		--	
Hip room	W 6		--	
Upper body opening to ground	H51		--	

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1			
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		NOT AVAILABLE	
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		NOT AVAILABLE	
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) #2 x L204 x H201 1928	V2			

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO ± (Std. first) (Indicate A C ratio)			
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM		A	B	C	D
19400	427 430 HP	4-bbl	12.5:1	430 @ 4600	485 @ 4000	4-Speed * (2.20:1 low)	3.36	3.08	3.55	3.70 4.11 4.56
A-Standard B-Economy-Optional C-Performance-Optional D-Special Purpose-Optional *-All engine-axle combinations are available as positraction only.										

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427 Cu. In. V-8

430 HP Opt. (L88)

ENGINE - GENERAL

Type, no. cyls., valve arr.	90° OHV V-8
Bore and stroke (nominal)	4.25 x 3.76
Piston displacement, cu. in.	427
Bore spacing (C to C)	4.84
No. system	L. Bank 1-3-5-7
(front to rear)	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Compression ratio (nominal)	12.5:1
Cylinder Head Material	Aluminum alloy
Block Material	Cast alloy iron
Lubrication - Wet, dry, none	None
Number of	Front Two
mtg. points	Rear One
Engine installation angle	3°
Taxable horsepower	57.8
Publishing max. bhp* @ eng. RPM	430 @ 4600
Publishing max. torque* (lb. ft. @ RPM)	485 @ 4000
Recommended fuel regular - premium	Premium

ENGINE - PISTONS

Material	Aluminum impact extruded
Description and finish	Domed head, valve cutout
Weight (piston only) oz.	28.99
Clearance (inches)	Top land .0316-.0384
	Skirt Top .0058-.0066 (a)
	Bottom --
Ring groove depth	No. 1 ring .2373-.2437
	No. 2 ring .2373-.2437
	No. 3 ring .2158-.2173
	No. 4 ring None

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

(a) Measured 2.20 from top of piston

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MODEL 19400

427 Cu. In. V-8
430 HP Opt. (L88)

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.	Cast alloy iron; barrel face; no bevel; molybdenum inlay
	Width	.0620-.0625
	Gap	.015-.025
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD Expander - stainless steel
	Width	.1870-.1890
	Gap	.010-.030
Expanders		In oil ring assembly

ENGINE - PISTON PINS

Material		Chromium Steel
Length		2.930-2.905
Diameter		.9895-.9898
Type	Locked in rod, in piston, floating, etc.	
	Bush- ing	Locked in rod
		In rod or piston Material
Clearance	In piston	None
	In rod	.00030-.00040
Direction & amount offset in piston		None
		On center

ENGINE - CONNECTING RODS

Material		High alloy steel
Weight (oz.)		27.84
Length (center to center)		6.130-6.140
Bearing	Material & Type	Premium aluminum
	Overall length	.857
	Clearance (limits)	.0014-.0034
	End play	.016-.020

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427 Cu. In. V-8

MODEL 19400

430 HP Opt. (L88)

ENGINE - CRANKSHAFT

Material	Forged steel	
Vibration damper type	Rubber mounted inertia	
End thrust taken by bearing (No.)	Five	
Crankshaft end play	.006-.010	
Main bearing	Material & type	Premium aluminum except No. 5 is sintered copper nickel backed babbitt.
	Clearance	#1, 2, 3, & 4 - (.0013-.0025); #5 - (.0015-.0031)
	Journal dia. and bearing overall length	No. 1 2.7510 x .992
		No. 2 2.7510 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
Main pin journal diameter		2.199- 2.200

ENGINE - CAMSHAFT

Location	In block above crankshaft	
Material	Cast alloy iron	
Bearings	Material	Steel backed babbitt
	Number	Five
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 .880
		Pitch .550

ENGINE - VALVE SYSTEM

Solid lifters (Std., opt., NA)		Not available
Valve operator, type (intake, exhaust)		None
Rocker ratio		1.70:1
Operating tappet clearance (indicate hot or cold)	Intake	.024
	Exhaust	.028

(Continued)

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430 HP Opt. (L88)

ENGINE - VALVE SYSTEM (cont.)

~~SEE CHOW HAN FOL~~ DEPT 1Intake - .3286" T. COZ
Exhaust - .3412"

Timing (based on top of ramp points)	Intake	Opens (°BTC)	62°	
		Closes (°ABC)	105°	
		Duration - deg.	347°	
	Exhaust	Opens (°BBC)	110°	
		Closes (°ATC)	74°	
		Duration - deg.	364°	
	Valve opening overlap		136°	
Intake	Material		Alloy steel; aluminized face and chrome flash stem	
	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		Nickel Moly Alloy	
	Stem diameter		.3715-.3722	
	Stem to guide clearance		.0010-.0027	
	Lift (± zero lash)		.5586	
	Outer spring press. & length	Valve closed (lb. ± in.)	69-81 @ 1.88	
		Valve open (lb. ± in.)	181-205 @ 1.32	
	Inner spring press. & length	Valve closed (lb. ± in.)	37-45 @ 1.78	
		Valve open (lb. ± in.)	92-110 @ 1.22	
	Exhaust	Material		High alloy steel; aluminized face
		Overall length		5.345-5.365
		Actual overall head dia.		1.835-1.845
Angle of seat & face		46° (seat) 45° (face)		
Seat insert material		Nickel Moly Alloy		
Stem diameter		.3713-.3720		
Stem to guide clearance		.0015-.0032		
Lift (± zero lash)		.5800		
Outer spring press. & length		Valve closed (lb. ± in.)	69-81 @ 1.88	
		Valve open (lb. ± in.)	181-205 @ 1.32	
Inner spring press. & length		Valve closed (lb. ± in.)	37-45 @ 1.78	
		Valve open (lb. ± in.)	92-110 @ 1.22	

ENGINE - LUBRICATION SYSTEM

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

(Continued)

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430 HP Opt. (L88)

ENGINE - LUBRICATION SYSTEM (conL)

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 (flooting, stationary)	Stationary
Oil filter system (full flow, part., other)	Full flow
Filter replacement (element, complete)	Element
Capacity of oil case, less filter-refill (qt.)	5
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 temperature below freezing)
Engine Service Recmt. (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
Exhaust pipe dia. (O.D. & wall thickness)	2.50 x .072-.092
Exhaust pipe dia. (O.D. & wall thickness)	2.50 x .084-.014 laminated
Exhaust pipe dia. (O.D. & wall thickness)	2.62 x .062-.072

ENGINE - CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmosphere, induction system, other)	Standard	Induction System
	Optional	--
Make and model	AC Spark Plug 6424250	
Location	Left front of rocker cover	
Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
Control method (variable orifice, fixed orifice, other)	Variable orifice	
Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner	
Flame arrestor (screen, check valve, other)	Screen	

A - Bench test - no flow condition.

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427 Cu. In. V-8

MODEL 19400

430 HP - Manual Transmission

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	3925519	
	Barrel size	1.75 primary & secondary	
	Idle speed	Drive 1000 Neutral --	
	Idle A/F mixture	Not specified	
Distributor	Aux. Adv. Systems (type)	None	
	Make	Delco Remv	
	Model	1111295	
	Centrifugal adv. in crank degrees @ eng. rpm	Start (rpm)	5000
		Intermed. points deg. @ rpm	18 @ 1900
		Max. deg. @ rpm	30 @ 5000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	None
		Intermed. points deg. @ in. Hg	
		Max. deg. @ in.	None
	Vacuum Source		Carburetor
Timing - Crank degrees @ rpm		12 BTDC @ Idle	
Cooling System (describe changes)		None	
Exhaust System (describe changes)		None	

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MODEL 19400

427 Cu. In. V-8

430 HP Opt (L88)

ENGINE - FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor
Fuel	Refill capacity (U.S. gals.)	20 (approximately)
Tank	Filler location	Center at rear deck
Fuel	Type (elec. or mech.)	Mechanical
Pump	Locations	Lower right front of engine
	Pressure range	5.00-6.50 PSI
Vacuum booster (std., optional, none)		None
Fuel	Type	Fine mesh plastic strainer in gas tank
Filter	Locations	and paper filter in carburetor inlet
	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
Carburetor	Air cleaner type	Standard
		Optional
	Idle speed (spec. neutral or drive)	Manual
		Automatic
	Idle A/F mix.	Not specified

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
19400	427	4-Speed	Holley	3925519	One; 4-bbl	1.750 Primary & Secondary

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427 Cu. In. V-8

430 HP Opt (L38)

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	
	Sealing type	Double row ball	
By-pass recirculation type (inter., ext.)		External	
Radiator core type (cellular, tube and fin, other)		Cross flow	
Cooling system capacity	With heater (qt.)	22	
	Without heater (qt.)	21	
	Opt. equipment—specify (qt.)	--	
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		17.50
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		Thermo-modulated-viscous coupling
	Sealing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		AB
	Generator or alternator		A
	Water Pump		B
	Power Steering		NA
	Air Conditioning		NA

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	42°									
Nominal length (SAE)	56.00	34.40									
Width		.380									

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427 Cu. In. V-8

430 HP Opt (L88)

ELECTRICAL — SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980087
	Voltage Rtg. & Total Plates		12 volt-78 plate
	SAE Designation & Amp. Hr. Rtg.		62 amp/hr @ 20 hr. rate
	Location		Behind driver seat in stowage compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		1100696
	Type and rating		Diode rectified 9-37 amps
	Output at engine idle (neutral)		24 amps
	Ratio—Gen. to Cr.'s rev.		2.46:1
Regulator	Make		Delco-Remy
	Model		1119515
	Type		Vibrator
	Cutout relay	Closing voltage generator rpm	None
		Reverse current to open	None
	Regu- lated	Voltage	13.8-14.8 @ 85°F
		Current	--
	Voltage test conditions	Temperature	Operating
		Load	3-8 amperes
		Other	None

ELECTRICAL — STARTING SYSTEM

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

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430 HP Opt (L88)

ELECTRICAL—IGNITION SYSTEM

Type	Conventional — Std., Opt., N.A.		NA
	Transistorized — Std., Opt., N.A.		Standard
	Other (specify)		None
Coil	Make		Delco-Remy
	Model		1115287
	Amps	Engine stooped	4.0
		Engine idling	1.8
Distributor	Make		Delco-Remy
	Model		1111295
	Centrifugal adv. in c/shaft degrees ± engine rpm (nominal)	Start (rpm)	1200
		Intermediate points deg. 3 rpm	18 @ 1900
		Max. deg. 3 rpm	30 @ 5000
	Vacuum adv. in c/shaft degrees ± in. Hg. (nominal)	Start (in. Hg.)	None
		Intermediate points, deg. 2 in. Hg.	None
		Max. deg. in. Hg.	None
	Breaker gap (in.)		Magnetic
	Cam angle (deg.)		Pulse
	Breaker arm tension (oz.)		Amplifier
Timing	Crankshaft deg. 3 rpm		12 BTC at idle
	Mark location		Torsional damper
Spark Plug	Make		AC Spark Plug
	Model		AC43N
	Threads (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033-.038
Cable	Conductor type		Linen core impregnated with electrical conducting
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Hypalon jacket

ELECTRICAL—SUPPRESSION

Locations & type Non-metallic, high tension ignition

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430 HP Opt. (L88)

ELECTRICAL — INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Dial
	Trip odometer (yes, no)	Yes
Charge indicator — type		Ammeter
Temperature indicator — type		Electric gauge
Oil pressure indicator — type		Bourdon tube gauge
Fuel indicator — type		Electric gauge
Other		Mechanical tachometer
Wind-shield wiper	Type — Standard	Electric two-speed
	Type — Optional	None
Wind-shield washer	Type — Standard	Push-button
	Type — Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(Low note) 4.5-6.5 @ 12.5V. (Hi note) 4.2-6 @ 12.5V.

DRIVE UNITS — CLUTCH (Manual Transmission)

Make & type		4-Speed Chevrolet, single dry disc. semi-centrifugal
Type pressure plate springs		Circular plate diaphragm, bent finger design
Total spring load (lb.)		2600-2800
of clutch driven discs		One
Clutch facing	Material	Premium grade woven type asbestos
	Outside & inside dia.	11.00 & 6.50
	Total eff. area (sq. in.)	123.70
	Thickness	.140 each
	Engagement cushioning method	Flat spring steel between cushions
Release bearing	Type & method of lubrication	Single row ball, packed and sealed
Torsional damping	Methods: springs, friction material	Coil, springs.

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MODEL

19400427 Cu. In. V-8430 HP Opt (L88)

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)

Not available

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

44-Speed

Transmission ratios

In first

2.20

In second

1.64

In third

1.27

In fourth

1.00

In reverse

2.26

Synchronous meshing, specify gears

All forward gears

Shift lever location

Floor mounted

Lubricant

Capacity (qt.)

3

Type recommended

Military spec. MIL-L-2105-B

SAE viscosity number

Summer

SAE 80

SAE viscosity number

Winter

SAE 80

SAE viscosity number

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)

Downshift accelerator control (yes, no)

Minimum cut-in speed

Not

Gear ratio

Capacity (qt.) (Overdrive only)

Available

Separate filler (yes, no)

Type recommended

Lubricant

SAE viscosity number

Summer

SAE viscosity number

Winter

SAE viscosity number

Extreme cold

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DRIVE UNITS — AUTOMATIC TRANSMISSION

NOT AVAILABLE

Trade name	
Type describe	
Selector location	
List gear ratios Selector Pattern and indicate which are used in each selector position	
Max. upshift speed—drive range	
Max. kickdown speed—drive range	
Torque converter	Number of elements
	Max. ratio at stall
	Type of cooling (air, liquid)
	Nominal diameter
Lubricant	Capacity—refill (qt.)
	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.
	Not available
	Manual 4-speed trans.
	2.00 x 29.90 x .095
Overdrive transmission	Not available
	Automatic transmission
Automatic transmission	Not available

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

(Continued)

AMA Specifications—Passenger Car

1. TYPE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (*)

MODEL 19400

DRIVE UNITS — PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750
Universal joints	Make and Mfg. No.	Chevrolet, 3868728
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	V-Belt
	Bearing	Anti-friction
	Type (plain, anti-friction)	Anti-friction
	Lubric. (fitting, prepack)	Prepack
Drive taken through (torque tube ms, springs)		Torque control arms
Torque taken through (torque tube or arms, springs)		Torque control arms

DRIVE UNITS — AXLE

Type (front, rear)		Rear
Description		Semi-floating, overhung pinion gear
Limited Slip differential, type		Dual disc clutches
Drive Pinion Offset		1.5
No. of differential pinions		2
Pinion adjustment (shim, other)		None
Pinion bearing adj. (shim, other)		Shim
Wheel bearing type		Taper roller
Capacity (pt.)		3.7
Lubricant	Type recommended	Meeting Military Specs MIL-L-2105-B
	SAE vis- cosity number	SAE 80
	Summer	SAE 80
	Winter	SAE 80
Extreme cold		SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.36	3.55	3.70	4.11	4.56
No. of teeth	Pinion	11	9	10	9	9
	Ring gear	37	32	37	37	41
Gear O.D.				8.375		

AMA Specifications—Passenger Car

A TYPE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (a) _____

MODEL _____ 19400

DRIVE UNITS - WHEELS

Type & material	Short spoke disc steel	
Rim (size & flange type)	Std.	15 x 7 JK
	Opt.	None
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 Hex nuts 7/16-20 UNF 2-B

MODEL _____

DRIVE UNITS - TIRES

Standard	Size, ply rating, & ply		F 70 x 15-2 ply (4 ply rating)
	Type (bias, radial, etc.)		Bias
	Full rated Inflation Press.	Front	24
		Rear	24
	Rev. Mile at 50 MPH		776
Optional			None
	Size, ply rating, & ply		

BRAKES - PARKING

Type of control	Grip handle control	
Location of control	Center of floor console	
Operates on	Rear wheels	
If separate from service brakes	Type (internal or external)	Internal
	Drum diameter	6.5
	Lining size (length x width x thickness)	6.78 x 1.25 x .175

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (*)MODEL 19400

BRAKES—SERVICE

Type (drum or disc)			Caliper disc, 4-wheel hydraulic			
Self adjusting (std., opt., N.A.)			Standard			
Power brake make & type (remote, int., etc.)		Std.	--			
		Opt.	Delco-Moraine vacuum power unit: integral			
Effective area (sq. in.)*			78.1			
Gross lining area (sq. in.)**			86.3			
Swept area (sq. in.)***			461.2			
Percent brake effectiveness - front			65			
Drum or Disc	Diameter (nominal)	Front	11.75 x 1.25			
		Rear	11.75 x 1.25			
	Type and material		Cast iron			
	Disc (vented or solid)		Vented			
No. pistons per caliper			4			
Wheel cyl. under bore	Front		1.875			
	Rear		1.375			
Master Cylinder	Bore		1.00			
	displacement distribution	Front %	65			
		Rear %	35			
Brk. valve	Type (proportion, delay, metering, other)		Check valve			
Pedal arc ratio			4.52			
Line pressure at 100 lb. pedal load			576			
Shoe clearance adjustment			Self-adjusting			
Brake Lining	Drum or Disc		Disc			
	Bonded or riveted		Riveted			
	Front Wheel	Material		Woven asbestos		
		Size (length x width x thickness)	Prim. or out-board	5.96 x 2.21 x .41		
			Second. or in-board	5.96 x 2.21 x .41		
		Segments per shoe		One		
	Rear Wheel	Material		Woven asbestos		
		Size (length x width x thickness)	Prim. or out-board	5.96 x 2.21 x .41		
			Second. or in-board	5.96 x 2.21 x .41		
		Segments per shoe		One		

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

*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

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MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED ^(a)

MODEL 19400

STEERING

Manual (std., opt., NA)				Standard	
Power (std., opt., NA)				--	
Adjustable steering wheel (tilt, swing, other)		Type and description (std., opt., NA)		Telescopic steering column; 3" adjustment	
				Optional	
Wheel diameter		Manual		16.0	
		Power		16.0	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Outside whl. angle with inside whl. at 20°				18.47	
Manual	Gear	Type		Semi-reversible, recirculating ball nut	
		Make		Saginaw	
		Ratios	Gear	16.0:1	
			Overall	20.2:1	
	No. wheel turns		3.4		
Power	Type (coaxial, linkage, etc.)				
	Make		Not		
	Gear	Type	--		
		Ratios	Gear	--	
			Overall	Available	
	Pump driven by		--		
	Number wheel turns		--		
Linkage	Type		Parallelogram		
	Location (front or rear of wheels, other)		Rear		
	Drag link (trans. or longit.)		None		
	Tie rods (one or two)		Two		
Steering Axis	Inclination at camber (deg.)		6-1/2 to 7-1/2		
	Bearings (type)	Upper	Ball stud with non-metallic bearing surface		
		Lower	Ball stud with non-metallic bearing surface		
		Thrust	None		
Whl. Align. (range at curb w/o. & preferred)	Caster (deg.)		P1/2 to P1-1/2		
	Camber (deg.)		P1/4 to P1-1/4 (a)		
	Toe-in (outside track inches)		3/32 to 5/32 (a)		
Steering spindle & joint type				Steering knuckle with spherical joint	
Wheel Spindle	Diameter	Inner bearing		1.2493-1.2498	
		Outer bearing		.7492-.7497	
	Thread size		3/4-20 NEF - 3 (Modified)		
	Bearing type		Taper roller		

(a) Rear wheel alignment: N 1-3/8 to N 3/8

Toe-In 1/32 to 3/32

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (*)MODEL 19400 12400

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 arm
Provision for acc. squat control	None
Special provisions for car jacking	Front: 5" forward of front edge of door opening, under frrar Rear: 3" forward of wheel opening, under frame.
Shock absorber	Type Direct, double acting hydraulic
front & rear	Make Delco
	Piston dia. 1.00
Other special features	

SUSPENSION — FRONT

Type and description	Independent: SLA type with coil spring and concentric shock absorber, and spherically-jointed steering knuckle for each wheel
Spring	Type Coil
	Material Steel alloy
	Size (coil design height & I.D.; bar length x dia.) 9.99 x 3.80 138.75 x .618
	Spring rate (lb. per in.) 284
	Rate at wheel (lb. per in.)
Stabilizer	Type (link, linkless, frameless) Link
	Material & bar diameter Steel .9375

SUSPENSION — REAR

Type and description	(A)
Drive and torque taken through	Torque control arms
Spring	Type Multi-leaf
	Material Chrome carbon steel
	Size (length x width, coil design height & I.D.; bar length & dia.) 46.36 x 2.25
	Spring rate (lb. per in.) 140
	Rate at wheel (lb. per in.) 123
	Mounting insulation type Rubber mounted at differential; Vertical loading only at shac
	If leaf No. of leaves 9
	Shackle (comp. or tens.) Tension
Stabilizer	Type (link, linkless, frameless) Link
	Material .562
Track bar type	None

A—Full independent with fixed differential, transverse multi-leaf spring, lateral struts and universally-jointed axle shafts

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CONVENIENCE EQUIPMENT

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

[illegible]

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	17.5
		Lowest	
	Tail	Highest	25.7
		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 headlights are used enter here.

MAKE OF CAR CORVETTE MODEL YEAR 1968 DATE ISSUED 10-15-67 REVISED (a)

WEIGHTS

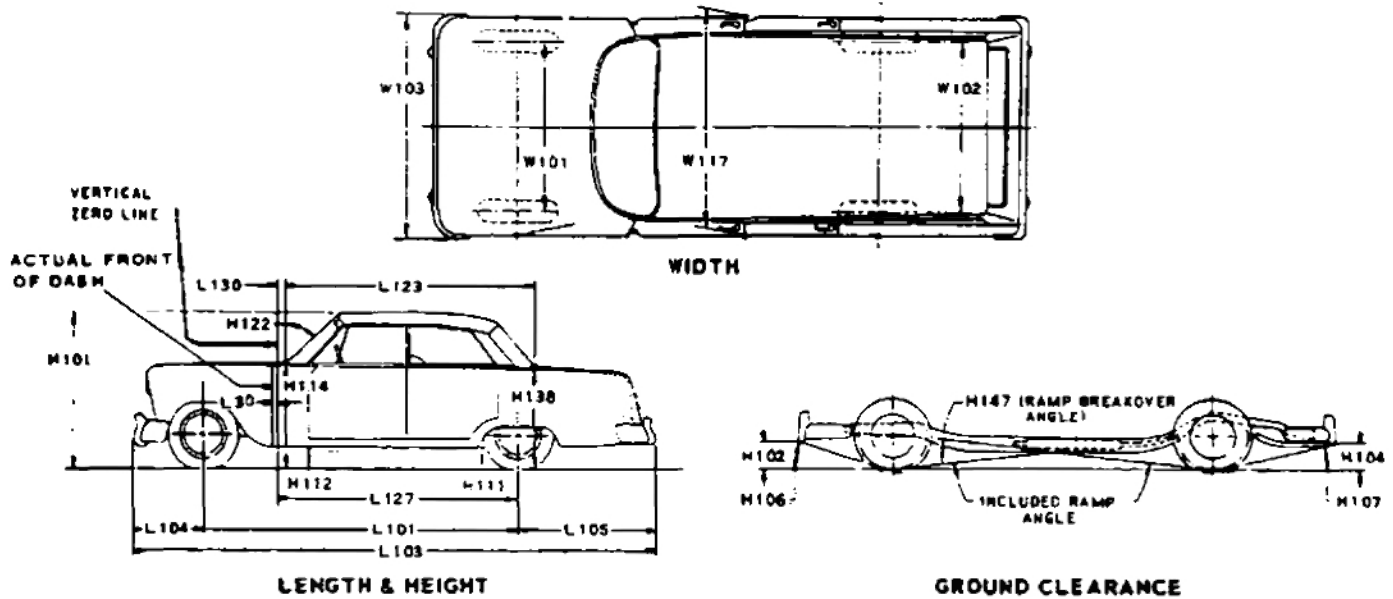
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AMA Specifications—Passenger Car

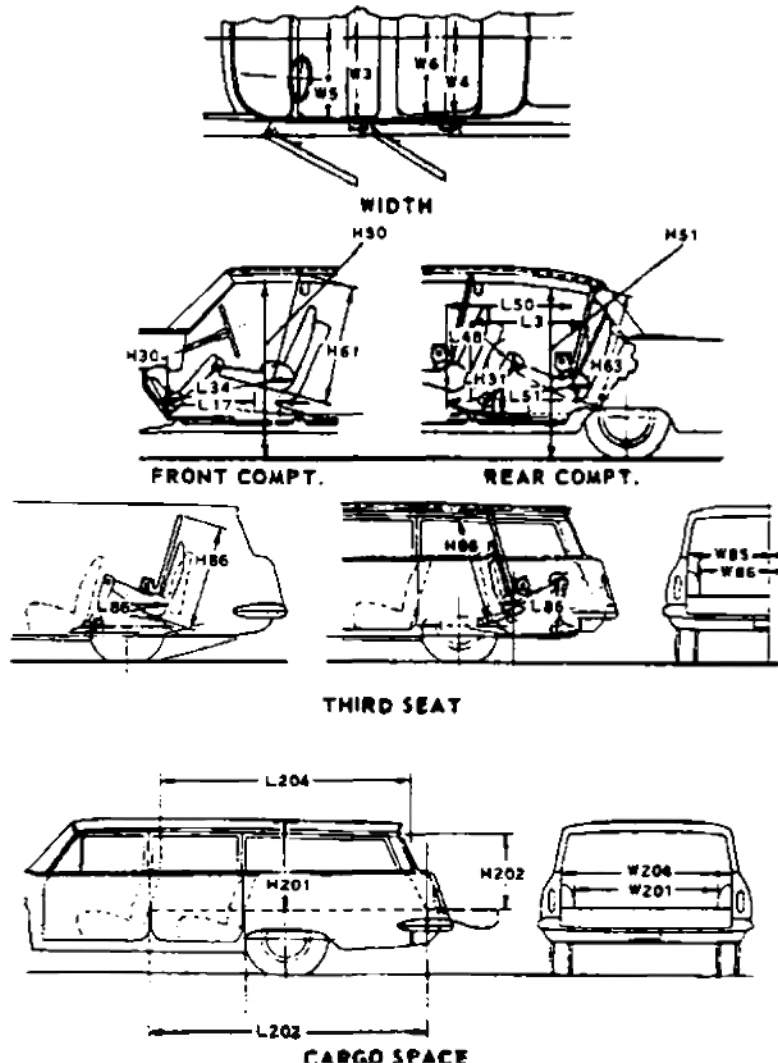
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

- W101 WHEEL TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.
- W102 WHEEL TREAD - REAR. Measured at centerline of tires at ground.
- W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.
- W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual front of dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C.L. of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C.L. of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowi Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowi 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

FRONT COMPARTMENT DIMENSIONS (Cont.)

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

REAR COMPARTMENT DIMENSIONS

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

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00-105.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

- W 85 SHOULDER ROOM - THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.
- W 86 HIP ROOM - THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.
- L 86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.
- H 86 EFFECTIVE HEAD ROOM - THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouseings at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tailgate 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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