

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	CORVETTE
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Mich. 48090	MODEL YEAR	1969
		ISSUED:	10/15/68
		REVISED (e)	

NOTES:

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

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BODY - TYPES AND STYLE NAMES - Body type, style names; use manufacturer's code for series & body style.

2-Door Sport Coupe, 2-Passenger	19437
2-Door Convertible, 2-Passenger	19467

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MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 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. Dimensions are to be shown for:

4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	2-Door Sport Coupe	Convertible
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WIDTH

Track - Front	W101	58.7	
Track - Rear	W102	59.4	
Maximum overall car width	W103	69.0	
Body width at No. 2 pillar	W117	66.3	

LENGTH

Body "O" to front of dash	L 30	-1.7	
Wheelbase	L101	98.0	
Overall car length	L103	182.5	
Overhang - front	L104	40.6	
Overhang - rear	L105	43.9	
Body upper structure length	L123	55.6	
Body "O" line to C of rear wheel	L127	72.0	
Body "O" line to w/s cowl point	L130	13.1	

HEIGHT

Passenger Distribution (front & rear)		2 - 0	
Trunk/Cargo load (lbs.)			
Overall height	H101	47.8	47.9
Cowl height	H114		
Deck height	H138		
Rocker panel - front	To ground		6.7
	From front wheel C	H112	
Rocker panel - rear	To ground		6.7
	From rear wheel C	H111	
Windshield slope angle	H122	32.6	

GROUND CLEARANCE

Bumper to ground - front	H102		
Bumper to ground - rear	H104		
Angle of approach	H106	16.4	17.1
Angle of departure	H107	18.4	18.2
Ramp breakover angle	H147	11.2	11.3
Min. running clearance (Specify)	H156	6.0 (H153)	

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CAR AND BODY DIMENSIONS

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(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	2-Door Sport Coupe	Convertible
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FRONT COMPARTMENT

Effective head room	H61	36.2	37.1
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		

NOT APPLICABLE

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	5.0	7.8 (top up)*
Liftover height	H195		---
Position of spare tire storage		In well under fuel tank	
Method of holding lid open			---

STATION WAGON - THIRD SEAT

Shoulder Room	W85		
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Seat facing direction			

NOT APPLICABLE

STATION WAGON - CARGO SPACE

Cargo length at floor - front seat	L202		
Cargo length at belt - front seat	L204		
Cargo width - Wheelhouse	W201		
Opening width at belt	W204		
Maximum cargo height	H201		
Rear opening height	H202		
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2		

NOT APPLICABLE

* - 6.1 with top down.

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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
ALL MODELS	350 Stan- ard	One; 4-bbl Down- draft	10.25 :1	300 @ 4800	380 @ 3200	3-Speed (2.54:1 low) & 4-Speed* (2.52:1 low)	Base	3.36	3.08	-	-
							A/C	3.36	3.08	-	-
						Turbo * Hydra-Matic	Base	3.08	-	-	-
							A/C	3.08	-	-	-
	350 Option (L46)	One; 4-bbl Down- draft	11.0:1	350 @ 5600	380 @ 3600	4-Speed* (2.52:1 low)	Base	3.36	-	3.55	-
							A/C	3.36	-	3.55	-
						4-Speed* (2.20:1 low)	Base	3.70	-	4.11	-
							A/C	3.70	-	4.11	-
	427 Option (L36)	One; 4-bbl Down- draft	10.25 :1	390 @ 5400	460 @ 3600	4-Speed* (2.52:1 low)	Base	3.08	-	3.36	-
							A/C	3.08	-	-	-
						4-Speed* (2.20:1 low)	Base only	3.36	3.08	3.55	3.70
							Turbo * Hydra-Matic	Base	3.08	2.73	-
	A/C	Base	3.08	2.73	-	-					
		A/C	3.08	2.73	-	-					
	427 Option (L68)	Three; 2-bbl Down- draft	10.25 :1	400 @ 5400	460 @ 3600	4-Speed* (2.52:1 low)	Base	3.08	-	3.36	-
							A/C	3.08	-	-	-
						4-Speed* (2.20:1 low)	Base only	3.36	3.08	3.55	3.70
							Turbo * Hydra-Matic	Base	3.08	2.73	-
	A/C	Base	3.08	2.73	-	-					
		A/C	3.08	2.73	-	-					
427 Option (L71)	Three; 2-bbl Down- draft	11.0:1	435 @ 5800	460 @ 4000	4-Speed* (2.20:1 low)	Base only	3.55	3.36	3.70	4.11	
						Turbo * Hydra-Matic	Base only	3.08	2.73	3.36	--

* - Optional

** - Positraction axles available optionally for 3.36 & 3.70 ratios in combination with 350 cu.in. engines. All other engine-transmission-axle combinations are available as positraction only.

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

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MAKE OF CAR	CORVETTE		MODEL YEAR	1969	DATE ISSUED	10/15/68	REVISED (a)
MODEL	350 Cu. in. V-8	300 HP Standard	350 HP Opt. (L46)	427 Cu. in. V-8	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8				
Bore and stroke (nominal)	4.00 x 3.48		4.25 x 3.76		
Piston displacement, cu. in.	350		427		
Bore spacing (C to C)	4.4		4.84		
No. system (front to rear)	L. Bank	1-3-5-7		R. Bank	
Firing order	2-4-6-8				
Compres. ratio (nominal)	10.25:1	11.0:1	10.25:1	11.0:1	
Cylinder Head Material	Cast alloy iron				
Cylinder Block Material	Cast alloy iron				
Cyl. Sleeve-Wet, dry, none	None				
Number of mtg. points	Front	Two		Rear	
Engine installation angle	3°				
Taxable horsepower	51.2		57.8		
Publishing max. bhp* @ eng. RPM	300 @ 4800	350 @ 5600	390 @ 5400	400 @ 5400	435 @ 5800
Publishing max. torque* (lb. ft. @ RPM)	380 @ 3200	380 @ 3600	460 @ 3600	460 @ 3600	460 @ 4000
Recommended fuel regular - premium	Premium				

ENGINE—PISTONS

Material	Cst. al. alloy	(a)	Cast aluminum alloy	(a)	
Description and finish	Flat notched head	Domed head, valve cutout			
Weight (piston only) oz.	21.60	20.00	28.00	24.67	
Clearance (limits)	Top land	.0235-.0325	.0305-.0390	.0306-.0374	
	Skirt	Top	.0007-.0013(b)	.0020-.0026(c)	.0012-.0020(d)
		Bottom	.0040-.0046(e)		
Ring groove depth	No. 1 ring	.2218-.2288	.2348-.2412	.2378-.2438	
	No. 2 ring	.2218-.2288	.2348-.2412	.2378-.2438	
	No. 3 ring	.2038-.2103	.2183-.2247	.2158-.2178	
	No. 4 ring	None			

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

- (a) Aluminum impact extruded
- (b) Measured 1.56 from top of piston
- (c) Measured 1.63 from top of piston
- (d) Measured 1.91 from top of piston
- (e) Measured 2.07 from top of piston

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MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (e)
 350 Cu. In. V-8 427 Cu. In. V-8
 300 HP 350 HP 390 HP 400 HP 435 HP
 Standard Opt.(L46) Opt.(L36) Opt.(L68) Opt.(L71)

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression		
	No. 2, oil or comp.	Compression		
	No. 3, oil or comp.	Oil		
	No. 4, oil or comp.	None		
Compression	Description .Upper material, coating, etc.	Cast alloy iron; bbl. face; chrome plate on 300 HP, Moly inlay all other /other		
	Lower	Cast alloy iron; chrome plate on L48 & L71, wear resistant ctng. all		
	Width	(a)	(b)	Upper & Lower .0770-.0775
	Gap	(c)	(d)	.010-.020
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD Expander-stainless steel		
	Width	.1870-.1890 (assembled)		
	Gap	.015-.055		.010-.030
Expanders	In oil ring assembly			

ENGINE—PISTON PINS

Material	Chromium steel				
Length	2.990-3.010		2.930-2.950		
Diameter	.9270-.9273		.9895-.9898		
Type	Locked in rod, in piston, floating, etc.	Locked in rod			
	Bush- ing	In rod or piston Material	None		
Clearance	In piston	.00015-.00025	.00045-.00055	.00025-.00035	.00030-.00040
	In rod	None			
Direction & amount offset in piston	(e)	On center	(e)	On center	

ENGINE—CONNECTING RODS

Material	Drop forged steel		High alloy steel	
Weight (oz.)	20.80		27.84	
Length (center to center)	5.695-5.705		6.130-6.140	
Bearing	Material & Type	Premium aluminum		
	Overall length	.807		
	Clearance (limits)	.0007-.0027	.0009-.0029	.0014-.0034
	End play	.009-.013	.017-.021	

- (a) Upper .0775-.0780; lower .0770-.0775
 (b) Upper .0770-.0775; lower .0775-.0780
 (c) Upper .010-.020; lower .013-.025
 (d) Upper .010-.020; lower .013-.023
 (e) Major thrust side .055-.065

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MAKE OF CAR	CORVETTE		MODEL YEAR	1969	DATE ISSUED	10/15/68	REVISED (a)
	350 Cu. In. V-8				427 Cu. In. V-8		
MODEL	300 HP Standard	350 HP Opt.(L46)	390 HP Opt.(L36)	400 HP Opt.(L68)	425 HP Opt.(L71)		

ENGINE - CRANKSHAFT

Material	Cast nodular iron		Forged steel		
Vibration damper type	Rubber mounted inertia				
End thrust taken by bearing (No.)	Five				
Crankshaft end play	.002-.006		.006-.010		
Main bearing	Material & type	Premium aluminum except No. 5 is sintered copper nickel backed babbitt			
	Clearance	(a)	(b)	(c)	
	Journal dia. and bearing overall length	No. 1	2.4502 x .752	2.7507 x .992	2.7505 x .992
		No. 2	2.4505 x .752	2.7507 x .992	2.7505 x .992
		No. 3	2.4505 x .752	2.7505 x .992	2.7505 x .992
		No. 4	2.4505 x .752	2.7505 x .992	2.7505 x .992
		No. 5	2.4507 x 1.177	2.7506 x 1.2525	2.7506 x 1.2525
No. 6	None				
No. 7	None				
Dir. & amt. cyl. offset	None				
Crankpin journal diameter	2.099 - 2.100		2.199 - 2.200		

ENGINE - CAMSHAFT

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

ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard		N. A.
Valve rotator, type (intake, exhaust)	None		
Rocker ratio	1.50:1	1.70:1	
Operating tappet clearance (indicate hot or cold)	Intake	Zero	.024
	Exhaust	Zero	.028

- (Continued)
- (a) No. 1, .0008 - .0020; No. 2, 3, & 4, .0008 - .0024; No. 5, .0015 - .0031
 (b) No. 1 & 2, .0010 - .0020; No. 3 & 4, .0013 - .0025; No. 5, .0015 - .0031
 (c) No. 1, 2, 3 & 4, .0013 - .0025; No. 5, .0015 - .0031

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MAKE OF CAR CORVETTE	MODEL YEAR 1969	DATE ISSUED 10/15/68			REVISED (a)
MODEL	350 Cu. In. V-8 300 HP Standard	350 HP Opt. (L46)	427 Cu. In. V-8 390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)

ENGINE – VALVE SYSTEM (cont.)

		300 HP Standard	350 HP Opt. (L46)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)	
Timing (based on top of ramp points)	Intake	Opens (*BTC)	28°	52°	56°	44°	
		Closes (*ABC)	72°	114°	114°	92°	
		Duration - deg.	280°	346°	350°	316°	
	Exhaust	Opens (*BBC)	78°	98°	110°	86°	
		Closes (*ATC)	30°	62°	62°	36°	
		Duration - deg.	288°	340°	350°	302°	
	Valve opening overlap		58°	114°	118°	80°	
Material		Alloy steel; aluminized face and head on 427 cu. in.					
Overall length		4.870-4.889		5.215-5.235		5.226-5.251	
Actual overall head dia.		1.935-1.945	2.017-2.023	2.060-2.070		2.185-2.195	
Angle of seat & face		46° (seat) 45° (face)					
Seat insert material		None					
Stem diameter		.3410-.3417		.3715-.3722			
Stem to guide clearance		.0010-.0027					
Intake	Lift (@ zero lash)		.3900	.4500	.4614	.5197	
	Outer spring press. & length	Valve closed (lb.@ in.)	76-84 @ 1.70		94-106 @ 1.88		
		Valve open (lb.@ in.)	194-206 @ 1.25		303-327 @ 1.38		
	Inner spring press. & length	Valve closed (lb.@ in.)	Spring damper				
		Valve open (lb.@ in.)	Spring damper				
	Material		High alloy steel; aluminized face; also chrome flash stem on L71				
	Overall length		4.913-4.933	4.891-4.910	5.345-5.365		
Actual overall head dia.		1.495-1.505	1.595-1.605	1.715-1.725			
Angle of seat & face		46° (seat) 45° (face)					
Seat insert material		None					
Stem diameter		.3410-.3417		.3713-.3720			
Stem to guide clearance		.0010-.0027		.0015-.0032			
Exhaust	Lift (@ zero lash)		.4100	.4600	.4800	.5197	
	Outer spring press. & length	Valve closed (lb.@ in.)	76-84 @ 1.70		94-106 @ 1.88		
		Valve open (lb.@ in.)	194-206 @ 1.25		303-327 @ 1.38		
	Inner spring press. & length	Valve closed (lb.@ in.)	Spring damper				
		Valve open (lb.@ in.)	Spring damper				

ENGINE – LUBRICATION SYSTEM

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

(Continued)

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MAKE OF CAR	CORVETTE		MODEL YEAR	1969	DATE ISSUED	10/15/68	REVISED (*)
MODEL	350 Cu. In. V-8 300 HP Standard	350 HP Opt. (L40)	390 HP Opt. (L36)	427 Cu. In. V-8 400 HP Opt. (L68)	435 HP (Opt. (L71))		

ENGINE - LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. engine rpm) (A)	50-65 PSI @ 2000	50-75 PSI @ 2000
Oil press. sending unit (elect. or mech.)	Electric	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full flow	
Filter replacement (element, complete)	Element	
Capacity of oil case, less filter-refill (qt.)	4	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 temperatures below freezing)	
Engine Service Reqmt. (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 thick.)	2.00 x .067 x .081
Branch	
Main	2.00 x .072-.092 (laminated)
Tail pipe dia. (O.D. & wall thickness)	2.62 x .062-.072

ENGINE - CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Induction system
Control Unit	Make and model	AC Spark Plug
	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
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner
	Flame arrestor (screen, check valve, other)	Screen

A - Bench test - no flow conditions

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MODEL	350 Cu. In.	427 Cu. In.		
	300 HP	350 HP	390 HP	400 HP

ENGINE - EXHAUST EMISSION CONTROL MANUAL TRANSMISSION-Air Injection reactor equipment
AUTOMATIC TRANSMISSION-Controlled combustion system

Type (Air injection, engine modifications, other)	Air injection reactor equipment					
Air Injection Pump *	Type	Semi-articulated van type				
	Displacement	19.3				
	Drive ratio	1.15:1				
	Drive type	Crankshaft pulley				
	Relief valve (type)	Diverter valve - separate from pump				
	Filter (describe)	Centrifugal air cleaner				
Air Injection System *	Air distribution (head, manifold, etc.)	Manifold				
	Point of entry	Exhaust ports				
	Injection tube I.D.	.2565				
	Check valve type	Pressure (plate type)				
	Backfire protection (type)	Diverter valve				
Carburetor	Make					
	Model :	REFER TO				
	Barrel size					
	Idle speed	Drive	PAGE TEN			
		Neutral				
	Idle A/F mixture					
Distributor	Aux. Adv. Systems (type)	None				
	Make	Delco-Remy				
	Model	1111490	1111493	1111926	1111928	
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	900			
		Intermed. points deg. @ rpm				
		Max. deg. @ rpm	30 @ 5100	26 @ 5000	26 @ 3800	30 @ 3800
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	6.00	7.00	7.00	8.00
		Intermed. points deg. @ in. Hg				
		Max. deg. @ in.	19 @ 17	12 @ 12	12 @ 12	15 @ 15.5
	Vacuum Source	Carburetor				
Timing - Crank degrees @ rpm	4BTC@700(a)	8BTC@750	4BTC@800(a)	4BTC@750(a)	4BTC@750	
Cooling System						
Exhaust System						

* Used with manual transmission only
(a) 600 rpm with automatic

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MODEL	350 Cu. In.	427 Cu. In.			
	300 HP	350 HP	390 HP	400 HP	435 HP

ENGINE - FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor				
Fuel Tank	Refill capacity (U.S. gals.)	20 (approximately)				
	Filler location	Center at rear deck				
Fuel Pump	Type (elec. or mech.)	Mechanical				
	Locations	Lower right front of engine				
	Pressure range *	7.50-9.00 psi				
Vacuum booster (std., optional, none)		None				
Fuel Filter	Type	Fine mesh plastic strainer in gas tank				
	Locations	and paper filter element in carburetor inlet**				
Carburetor	Choke type	Automatic				
	Intake manifold heat control (exhaust or water)	Exhaust				
	Air cleaner type	Standard	Oil-wetted paper element		Polyurethane element	
		Optional	None			
Idle speed (spec. neutral or drive)	Manual	Neutral: 700 for 350 cu. in. engine; 800 for 427 cu. in.				
	Automatic	Drive: 600 for all engines				
	Idle A/F mix.	Not specified				

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
All Models	350 300hp	Manual	Rochester	7029203	One; 4-bbl down- draft	1.38 Primary 2.25 Secondary
		Automatic		7029202		
	350 350hp	Manual	Rochester	7029207		
		427 390hp	Manual	Rochester		
	Automatic		Rochester	7029204		
	427 400hp	Manual	Holley	3940929 (Primary)		
				3902353 (Secondary)		
	Automatic	3940930 (Primary)				
		3902353 (Secondary)				
	427 435hp	Manual	Holley	3940929 (Primary)		
3902353 (Secondary)						

* Shut off pressure - 1800 RPM at pump outlet

** Additional in-line paper element

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MODEL 350 Cu. In. V-8 427 Cu. In. V-8
300HP Std 350HP (L46) 390HP (L36) 400HP (L68) 435HP (L71)

ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure with surge tank		
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	57 @ 4400	82 @ 5200	
	Number of pumps	One		
	Drive (V-belt, other)	V-belt		
	Bearing type	Double row ball		
By-pass recirculation type (inter., ext.)		Internal	External	
Radiator core type (cellular, tube and fin, other)		Cross flow		
Cooling system capacity	With heater (qt.)	15	22	
	Without heater (qt.)	14	21	
	Opt. equipment-specify (qt.)	18	-	
Water jackets full length of cyl. (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	One, molded	
		Inside diameter	1.75	1.88
	Upper	Number and type (molded, straight)	One, molded	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	One, molded
		Inside diameter	None	.725-.765
Fan	Number of blades & spacing		5 - staggered	
	Diameter		17.50	
	Ratio-fan to crankshaft rev.		.949:1	
	Fan cutout type		Thermo-modulated - viscous coupling	
	Bearing type		Double row ball	
* Drive belts (indicate belt used by letter)	Fan	AB	FG	HG
	Generator or alternator	A	F	H
	Water Pump	AB	FG	HG
	Power Steering	C	I	I
	Air Conditioning	D	J	--
	Air Injection	E	K	K

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←----- 38° ----- 42° -----→										
Nominal length (SAE)	54.00	35.14	43.50	58.00	32.50	53.75	31.86	54.50	36.25	45.75	31.30
Width	←----- .380 -----→										

AMA Specifications—Passenger Car

MAKE OF CAR	CORVETTE	MODEL YEAR	1969	DATE ISSUED	10/15/68	REVISED (a)
MODEL	300 HP Standard	350 HP Opt.(L46)	350 Cu.In. V-8	390 HP Opt.(L36)	400 HP Opt.(L68)	427 Cu.In. V-8 435 HP Opt.(L71)

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 42 amps.					
	Output at engine idle (neutral)						
	Ratio-Gen. to Cr/s rev.	2.46:1					
Regulator	Make	Delco-Remy					
	Model	1119515					
	Type	Vibrator					
	Cutout relay	Closing voltage generator rpm	None				
		Reverse current to open	None				
	Regulated	Voltage	13.8-14.8 @ 85°F				
		Current	-				
	Voltage test conditions	Temperature	Operating				
Load		3-8 amperes					
Other		None					

ELECTRICAL – STARTING SYSTEM

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

AMA Specifications—Passenger Car

MAKE OF CAR	CORVETTE		MODEL YEAR	1969	DATE ISSUED	10/15/68	REVISED (e)
			350 Cu. In. V-8		427 Cu. In. V-8		
MODEL	300 HP Standard	350 HP Opt. (L46)	390 HP Opt. (L36)	400 HP Opt. (L68)	435 HP Opt. (L71)		

ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard		NA	
	Transistorized - Std., Opt., N.A.		NA	Optional		
	Other (specify)		None			
Coil	Make					
	Model		1115270	1115287		
	Amps	Engine stopped	4.0			
		Engine idling	1.8			
Distributor	Make		Delco-Remy			
	Model					
	Cent'gal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)		REFER		
		Intermediate points deg.@rpm		TO		
		Max. deg.@rpm		PAGE		
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)				
		Intermediate points, deg.@in. Hg.		NINE		
		Max. deg. in. Hg.				
	Breaker gap (in.)		.019		Magnetic	
	Cam angle (deg.)		28-32		Pulse	
Breaker arm tension (oz.)		19-23	28-32	Amplifier		
Timing	Crankshaft deg.@rpm		REFER TO PAGE NINE			
	Mark location		Torsional damper			
Spark Plug	Make		AC Spark Plug			
	Model		ACR44S	ACR44	AC43N	
	Thread (mm)		14			
	Tightening torque (lb. ft.)		25			
	Gap		.033-.038			
Cable	Conductor type		Linen core impregnated with electrical conducting			
	Insulation type		Rubber with neoprene jacket			
	Spark plug protector		Hypalon jacket			

ELECTRICAL - SUPPRESSION

Locations & type	Non-metallic, high tension ignition
------------------	-------------------------------------

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (e)
 350 Cu. In. V-8 427 Cu. In. V-8
 MODEL 300 HP Standard | 350 HP Opt.(L46) | 390 HP Opt.(L36) | 400 HP Opt.(L68) | 435 HP Opt.(L71)

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	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
Windshield wiper	Type – Standard	Electric two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	(low note) 4, 5-6.5 @ 12.5V, (Hi note) 4, 2-6 @ 12.5V.

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Chevrolet, single dry disc, semi-centrifugal		
Type pressure plate springs	Circular plate diaphragm, bent finger design		
Total spring load (lb.)	2450-2750	2600-2800	
No. of clutch driven discs	One		
Clutch facing	Material	Premium grade woven type asbestos	
	Outside & inside dia.	10.34 & 6.50	11.00 & 6.50
	Total eff. area (sq.in.)	101.54	123.70
	Thickness	.135 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	

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE **MODEL YEAR** 1969 **DATE ISSUED** 10/15/68 **REVISED** ^(a)
 350 Cu. In. V-8 | 427 Cu. In. V-8
MODEL 300 HP Standard | 350 HP Opt.(L46) | 390 HP Opt.(L36) | 400 HP Opt.(L68) | 435 HP Opt.(L71)

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard - available with 350 cu. in. 300 HP only
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Turbo Hydra-Matic optional with all engines except L46

DRIVE UNITS – MANUAL TRANS.

		3-Speed (a)	4-Speed (b)	4-Speed (c)
Number of forward speeds		3	4	4
Transmission ratios	In first	2.54:1	2.52:1	2.20:1
	In second	1.50:1	1.88:1	1.64:1
	In third	1.00:1	1.46:1	1.27:1
	In fourth	--	1.00:1	1.00:1
	In reverse	2.63:1	2.59:1	2.26:1
Synchronous meshing, specify gears		All forward gears		
Shift lever location		Floor mounted		
Lubricant	Capacity (pt.)	3		
	Type recommended	Meeting Military specs. MIL-L-2105B		
	SAE viscosity number	Summer	SAE 80	
		Winter	SAE 80	
		Extreme cold	SAE 80	

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

- (a) Available with 350 Cu. In. 300 HP (Std.) only
 (b) Available with all engine combinations except 427 Cu. In. 435 HP (L71)
 (c) Available with all engine combinations except 350 Cu. In. 300 HP (Std.)

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (e)

MODEL 350 Cu. In. 427 Cu. In.

DRIVE UNITS — AUTOMATIC TRANSMISSION Available with all engines except L46

Trade name	Turbo Hydra-Matic	
Type describe	Torque converter with planetary gears	
Selector location	Lever (floor mounted)	
List gear ratios Selector Pattern and indicate which are used in each selector position	P - Park R - 2.08 N - Neutral 3 - 2.48-1.48-1.00 2 - 2.48-1.48 1 - 2.48	
Max. upshift speed—drive range	51 (1-2); 95 (2-3)	51 (1-2); 90 (2-3)
Max. kickdown speed—drive range	44 (2-1); 88 (3-2)	40 (2-1); 84 (3-2)
Torque converter	Number of elements	3
	Max. ratio at stall	2.10
	Type of cooling (air, liquid)	Water
	Nominal diameter	12.20
Lubricant	Capacity—refill (pt.)	8
	Type recommended	A suffix A
Special transmission features		

DRIVE UNITS — PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Straight tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	2.00 x 29.90 x .095
	Manual 4-speed trans.	2.00 x 29.90 x .095
	Overdrive transmission	Not available
	Automatic transmission	2.00 x 29.50 x .095

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (a)

MODEL _____

DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	--
Slip Yoke	Type	Yoke
	Number of teeth	27
	Spline O.D.	1.1750
Universal joints	Make and Mfg. No.	Chevrolet, 3868728
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U-Bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)		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	
Lubricant	Capacity (pt.)	4.0	
	Type recommended	Meeting Military Specs MIL-L-2105-B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	3.08	3.36	3.55	3.70	4.11
No. of teeth	Pinion	15	12	11	9	10	9
	Ring gear	41	37	37	32	37	37
Ring Gear O.D.		8.875					

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (a)MODEL 19400

DRIVE UNITS—WHEELS

Type & material		Short spoke disc steel	
Rim (size & flange type)	Std.	15 x 18	
	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		766		
Optional	Size, ply rating, & ply		None	

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 1969 DATE ISSUED 10/15/68 REVISED (a)

MODEL _____

BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Caliper disc, 4-wheel hydraulic		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	Metering		
Power brake make & type (remote, int., etc.)	Std. Opt.	Bendix, vacuum power unit: integral		
Effective area (sq. in.) *		76.0		
Gross lining area (sq. in.) **		81.7		
Swept area (sq. in.) ***		461.2		
Front to Rear Effectiveness Relationship				
Drum	Diameter (nominal)	Front		
		Rear		
Type and material		Cast Iron		
Rotor	Outer working diameter		11.75	
	Inner working diameter		8.0	
	Working width		1.25	
	Material & type (vented/solid)		Vented	
Wheel cylinder bore	Front		1.875	
	Rear		1.375	
Master Cylinder	Bore		1.00	
	displacement	Front %	48 cu. in. @ 1500 PSI	
	distribution	Rear %	37 cu. in. @ 1500 PSI	
Pedal arc ratio		5.23		
Line pressure at 100 lb. pedal load		576		
Shoe Clearance	Front		Self adjusting	
	Rear		Self adjusting	
Brake lining	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.)

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (*)

MODEL _____

STEERING

Manual (std., opt., NA)		Standard-Energy absorbing steering wheel	
Power (std., opt., NA)		Optional (NA with 427 Cu. In. 435 HP (L71))	
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt and Telescopic steering column: 3" adjustment	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	16.0	
	Power	16.0	
Turning diameter (feet)	Outside front *	Wall to wall (l. & r.)	40.0
		Curb to curb (l. & r.)	37.0
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Manual	Gear	Type	Semi-reversible, recirculating ball nut
		Make	Saginaw
	Ratios	Gear	16.0:1
		Overall	20.2:1
	No. wheel turns (stop to stop)		3.45
Power	Type (coaxial, linkage, etc.)		Linkage-Power pump assisted
	Make		Saginaw
	Gear	Type	Same as manual
		Ratios	Gear
	Overall		17.6:1
Pump driven by		Crankshaft pulley	
No. wheel turns (stop to stop)		3.0	
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 wt. & preferred)	Caster (deg.)		P1/2 to P1-1/2 (Standard); P1-3/4 to P2-3/4 (Pwr Steering)
	Camber (deg.)		P1/2 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

* - Calculated

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (a)MODEL 19400 327 Cu. In. V-8 427 Cu. In. V-8

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

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

SUSPENSION – FRONT

Type and description	Independent: SLA type with coil spring and concentric shock absorber, and spherically-jointed steering knuckle for each wheel	
Spring	Type	Coil
	Material	Steel Alloy
	Size (coil design height & I.D. bar length x dia.)	9.99 X 3.80; 138.25 X .600
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel .750 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.)		
	Spring rate (lb. per in.)	140	
	Rate at wheel (lb. per in.)	123	
	Mounting insulation type	Rubber mounted at differential; Vertical loading only at shackle	
	If leaf	No. of leaves	9
	Shackle (comp. or tens.)	Tension	
Stabilizer	Type (link, linkless, frameless)	Link (B)	
	Material	.562	
Track bar type	None		

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

(B) - With 427 Cu. In. engines only

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (*)

MODEL _____

FRAME

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

All welded, full length, ladder constructed frame with
5 crossmembers

BODY – MISCELLANEOUS INFORMATION

SPORT COUPE

CONVERTIBLE

Drs. hinged (front, rr.)	Front doors		Front
	Rear doors		None
Type of finish (lacquer, enamel, other)			Lacquer
Hood counterbalanced (yes, no)			No
Hood release control (internal, external)			Internal
Vehicle Ident. No. location		1-Right side of hinge pillar cross brace 2-With engine number. (Under glove box.)	
Engine No. location		Front right side of cylinder block	
Theft protection - type		Lock mounted on steering column; locks steering wheel, transmission shift levers and ignition	
Vent window control method (crank, friction pivot)	Front		None
	Rear		None
Seat cushion type	Front	Bucket-polyurethane padding	
	Rear	None	
	3rd seat	None	
Seat back type	Front	Bucket-polyurethane padding	
	Rear	None	
	3rd seat	None	
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated plate	
Side glass type (i.e., curved - tempered plate)		Curved-tempered plate	
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Flat, tempered plate	Plastic (soft top) Curved plexiglass (aux. H. T.)
Windshield glass exposed surface area			
Side glass exposed surface area			
Backlight glass exposed surface area			
Total glass exposed surface area			

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (e)
 MODEL 19437 19467

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional	
	Vent windows	NA	
	Backlight or tailgate	NA	
Power seats (specify type as well as availability)		NA	
Reclining front seat back (R-L or both)		NA	
Front seat head restrainer (R-L or both)		Standard	
Radios (specify type as well as availability)		Optional -- AM-FM push-button; AM-FM Stereo	
Rear seat speaker		NA	
Power antenna		NA	
Clock		Standard	
Air conditioner (specify type and availability)		Optional -- Four - Seasons	
Speed warning device		Optional	
Speed control device		NA	
Ignition lock lamp		NA	
Dome lamp		Standard	NA
Glove compartment lamp		Standard	
Luggage compartment lamp		NA	
Underhood lamp		NA	
Courtesy lamp		Standard	
Map lamp		NA	
Auto. trans. quad. lamp		NA	
Cornering light lamp		NA	

LAMP HEIGHT AND SPACING

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

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

MAKE OF CAR CORVETTE MODEL YEAR 1969 DATE ISSUED 10/15/68 REVISED (e)

WEIGHTS

Model	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
	Front	Rear	Total	Pass. In Front		Pass. In Rear		Fuel	Coolant
				Front	Rear	Front	Rear		
2-Door Sport Coupe	1575	1670	3245					122.4	31.7
2-Door Convertible	1545	1705	3250					122.4	31.7

Accessories & Equipment Differential Weights	Front	Rear	Total	Remarks
350 Cu. In. V-8	+ 1	0	+ 1	RPO L46
427 Cu. In. V-8	+ 132	+ 25	+ 157	RPO L36
427 Cu. In. V-8	+ 10	+ 1	+ 11	RPO L68
427 Cu. In. V-8	+ 149	+ 28	+ 177	RPO L71
4-Spd. Man. Trans.	- 3	- 1	- 4	
Turbo Hydra-Matic Tr.	+ 35	+ 27	+ 62	
Power Window	+ 5	+ 5	+ 10	
Auxiliary Top	+ 5	+ 47	+ 52	With folding top
	+ 5	+ 8	+ 13	Less folding top
Air Conditioning	+ 76	+ 19	+ 95	
Power Brakes	+ 8	+ 2	+ 10	
Heavy Duty Brakes	+ 2	+ 2	+ 4	
Dual Exhaust	+ 10	- 40	- 30	Side mounted
Steering Wheel	+ 9	+ 2	+ 11	Tilt & telescopic
Power Steering	+ 25	+ 1	+ 26	
Wheel Trim Covers	+ 9	+ 9	+ 18	
AM/FM Radio	+ 9	+ 7	+ 16	
Radio Stereo	+ 3	+ 3	+ 6	

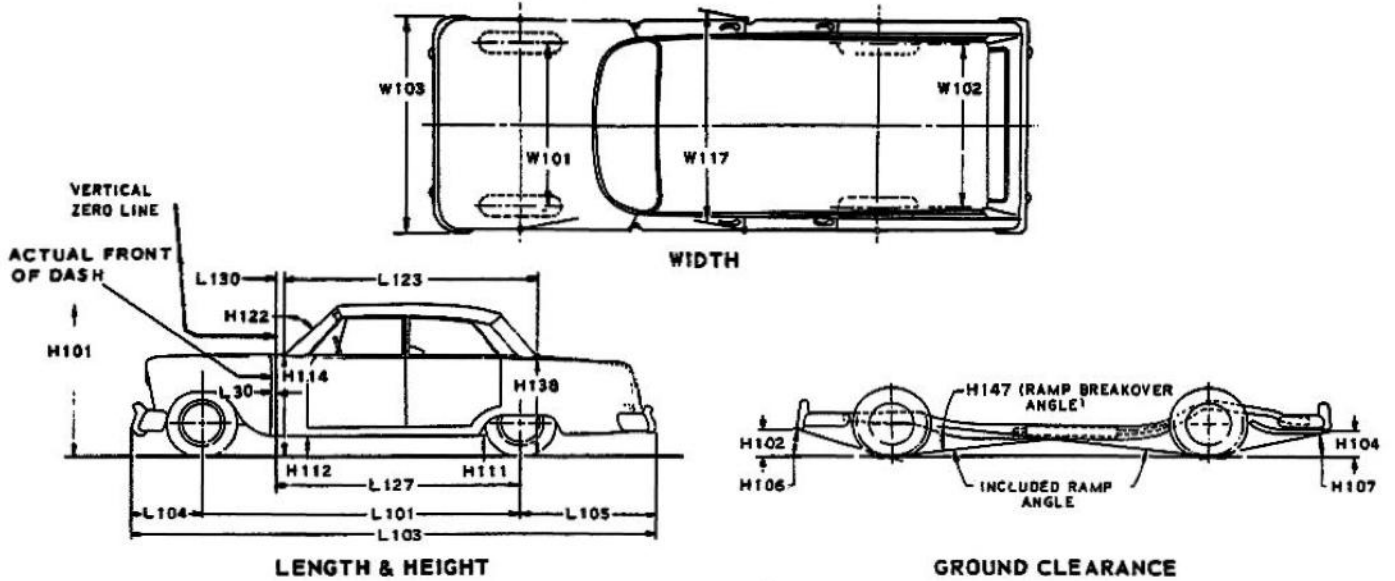
*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications—Passenger Car

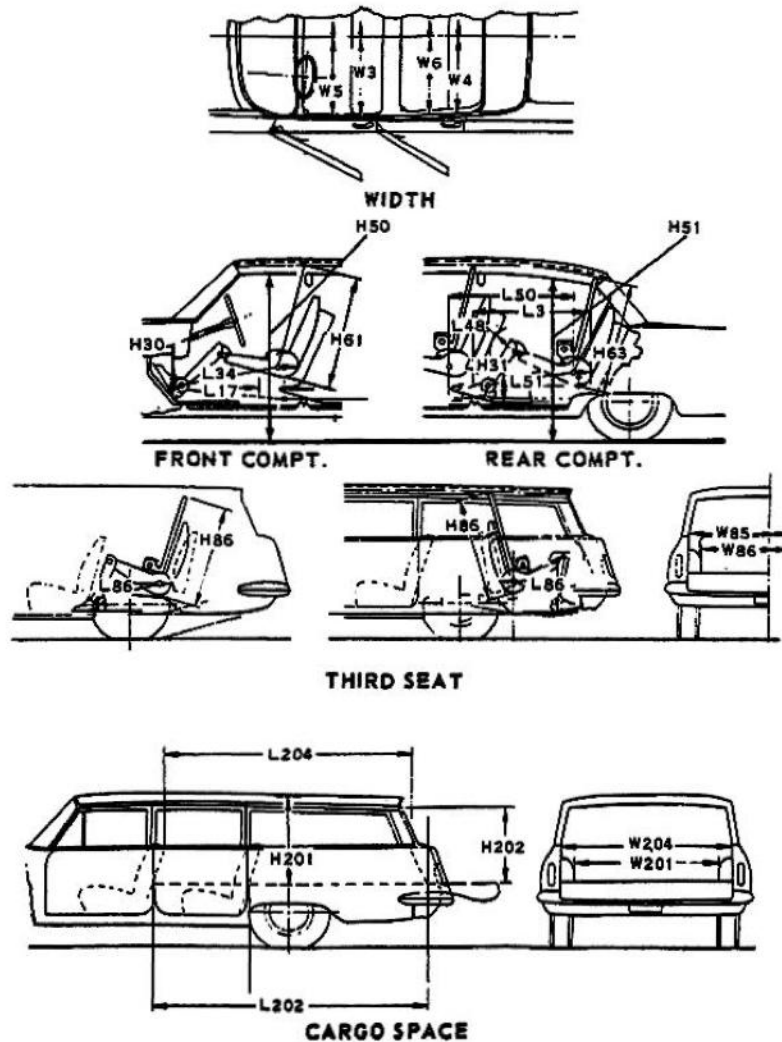
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

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

EXTERIOR LENGTH DIMENSIONS

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

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.
- H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

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

FRONT COMPARTMENT DIMENSIONS (Cont.)

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

REAR COMPARTMENT DIMENSIONS

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

LUGGAGE COMPARTMENT DIMENSIONS

- V 1 LUGGAGE CAPACITY - USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.
- H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON - THIRD SEAT DIMENSIONS

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

STATION WAGON - CARGO SPACE DIMENSIONS

- L202 CARGO LENGTH AT FLOOR - FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.
- L204 CARGO LENGTH AT BELT - FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.
- W201 CARGO WIDTH - WHEELHOUSE. The minimum horizontal dimension, measured between wheelhouses at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

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