

1971

AMA SPECIFICATIONS FORM

. . . Passenger Car

MANUFACTURER Chevrolet Motor Division General Motors Corporation	CAR NAME CORVETTE	
MAILING ADDRESS Chevrolet Engineering Center 30003 Van Dyke Warren, Michigan 48090	MODEL YEAR 1971	ISSUED: 9/70
		REVISED (#) 12/70

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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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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (*)

BODY MODEL	Body type, number of passengers, and style names; use manufacturer's code for series & body style.
<u>CORVETTE</u>	<u>V-8</u> <u>Engine</u>
2-Door Sport Coupe, 2-Passenger	19437
2-Door Convertible, 2-Passenger	19467

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (a) _____

CAR AND BODY DIMENSIONS

See Pages 27, 28 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.	Sport Coupe	Convertible
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	66.2	
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 ϕ 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	26.6	
Deck height	H138		
Rocker panel – front			
To ground		6.7	
From front wheel ϕ	H112	21.0	
Rocker panel – rear			
To ground		6.7	
From rear wheel ϕ	H111	16.6	
Windshield slope angle	H122	57.0	
GROUND CLEARANCE			
Bumper to ground – front	H102	19.2	
Bumper to ground – rear	H104	13.2	13.0
Angle of approach	H106	22.0	
Angle of departure	H107	21.0	
Ramp breakover angle	H147	22.0	
Min. running clearance (Specify)	H156	4.8 (a)	4.5 (a)

(a) Exhaust system to ground.

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	Sport Coupe	Convertible
FRONT COMPARTMENT			
Effective head room	H61	37.2	38.3
Max. eff. leg room — accelerator	L34		43.0
H Point to Heel point	H30		6.8
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	6.1	5.0
Liftover height	H195		---
Position of spare tire storage		In well under body at rear	
Method of holding lid open			---
STATION WAGON — THIRD SEAT			
Shoulder Room	W85		
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Seat facing direction			
STATION WAGON — CARGO SPACE			
Cargo length at floor — front seat	L202		
Cargo length at belt — front seat	L204		
Cargo width — 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		

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POWER TEAMS

(Indicate whether standard or optional)

(Gross bhp (brake horsepower) and gross torque corrected to 60°F and 29.92 in. Hg atmospheric pressure.)

(Net bhp (brake horsepower) and net torque corrected to 85°F and 29.00 in. Hg atmospheric pressure.)

MODEL AVAILABILITY	ENGINE							TRANSMISSION		AXLE RATIO ** (Std. first)			
	Displ. cu. in.	Cyls.	Compr. Ratio	BHP @ RPM		Torque @ RPM				(Indicate A/C ratio)			
				Gross	Net	Gross	Net	"A"	"B"	"C"	"D"		
	Turbo Fire 350V8 (base)	One; 4-bbl	8.5:1	270	210	360	300	4-Speed Manual (2.52:1 low)	Base and A/C	3.36	3.08	--	--
				@ 4800	@ 4400	@ 3200	@ 2800	3-Speed Auto- matic*	Base and A/C	3.08	--	3.36	--
	Turbo Fire 350V8 (LT1)*	One 4-bbl	9.0:1	330	275	360	300	4-Speed Manual (2.52:1 low)	Base only	3.55	3.36	3.70	--
				@ 5600	@ 5600	@ 4000	@ 4000	4-Speed Manual* (2.20:1 low)	Base only	3.70	3.55	4.11	--
								H. D. 4-Spd. Manual (2.20:1 low)	Base only	3.36	3.08	3.55	3.70 4.56
	Turbo Jet 454V8 (LS5)*	One; 4-bbl	8.5:1	365	285	465	390	4-Speed Manual* (2.52:1 low)	Base A/C	3.08	--	3.36	--
				@ 4800	@ 4000	@ 3200	@ 3200	4-Speed Manual* (2.20:1 low)	Base only	3.08	--	--	--
								3-Speed Automatic	Base A/C	3.36	3.08	3.55	3.70
	Turbo Jet 454V8 (LS6)*	One; 4-bbl	9.0:1	425	325	475	390	4-Spd. Manl (2.20:1 low)	Base only	3.36	3.08	3.55	--
				@ 5600	@ 5600	@ 4000	@ 3600	H. D. 4-Spd. Manual (2.20:1 low)	Base only	3.36	3.08	3.55	3.70 4.11
								3-Speed Automatic*	Base only	3.08	2.73	3.36	--
	* - Optional.												
** - Positraction standard with all axle applications.													

A - Standard.

B - Economy option.

C - Performance option.

D - Special option.

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED(*)
 MODEL TURBO-FIRE 350 TURBO-JET 454
V8 - 270 HP V8 - 330 HP V8 - 365 HP V8 - 425 HP

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V-8 OHV			
Bore and stroke (nominal)	4.00 x 3.48		4.251 x 4.00	
Piston displacement, cu. in.	350		454	
Bore spacing (C to C)	4.40		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			
Compres. ratio (nominal)	8.5:1	9.00:1	8.5:1	9.00:1
Cylinder Head Combustion Chamber Volume (cc)	99.61	90.82	127.60	119.09
Cylinder Head Material	Cast alloy iron			Cast aluminum
Cylinder Block Material	Cast alloy iron			
Cyl. Sleeve-Wet, dry, none	None			
Number of	Front	Two		
mtg. points	Rear	One		
Engine installation angle	3°			
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower}}$ 2.5	51.2		57.8	
Recommended fuel regular - premium	Regular			

ENGINE—PISTONS

Material	Cast alum.alloy	(a)	Cast alum. alloy	(a)
Description and finish	Sump head slipper skirt	Flat head notched, slipper skirt	Flat head valve cutout	Domed head notched
Weight (piston only) oz.	21.50	25.68	25.92	23.28
Clearance (limits)	Top land	.0235-.0325	.0305-.0395	.0350-.0410
	Skirt Top	.0007-.0017(b)	.0036-.0046(b)	.0024-.0034(c)
	Bottom			.0040-.0050(d)
Ring groove diameter	No. 1 ring	3.546-3.556	3.770-3.780	3.765-3.775
	No. 2 ring	3.546-3.556	3.770-3.780	3.765-3.775
	No. 3 ring	3.582-3.592	3.803-3.813	3.816-3.820
	No. 4 ring			

- (a) - Aluminum impact extruded.
 (b) - Measured 1.878 from top of piston.
 (c) - Measured 1.69 from top of piston.
 (d) - Measured 1.65 from top of piston.

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (a)

MODEL V8 - 350 V8 - 454
V8 - 270 HP V8 - 330 HP V8 - 365 HP V8 - 425 HP

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	Cast alloy iron; barrel face (a)		
	material, coating, etc. Lower	Cast alloy iron; inside bevel; tapered face (b)		
	Width	(c)	(d)	Upper & lower .0770-.0775
	Gap	(e)	(f)	.010-.020
Oil	Description -	Multi-piece (2 rails and 1 spacer expander)		
	material, coating, etc.	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- In rod or piston	None		
	ing Material	---		
Clearance	In piston	.00015-.000251	.00045-.00055	.00030-.00040 .00045-.00055
	In rod			
Direction & amount offset in piston		Major thrust side .060		On center

ENGINE - CONNECTING RODS

Material		Drop forged 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	.797		.847
	Clearance (limits)	.0013-.0035		.0009-.0025
	End play	.008-.014		.015-.023

- (a) Chrome plate on V8-350 (270 HP) molybdenum inlay all other engines.
 (b) Wear resistant coating V8-350 (270 HP) chrome plate all other engines.
 (c) Upper .0775-.0780; Lower .0770-.0775.
 (d) Upper .0770-.0775; Lower .0775-.0780.
 (e) Upper .010-.020; Lower .013-.025.
 (f) Upper .010-.020; Lower .013-.028.

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V8 - 350 V8 - 454
 MODEL V8 - 270 HP V8 - 330 HP V8 - 365 HP V8 - 425 HP

ENGINE - CRANKSHAFT

		Cast	
Material		nodular iron	Forged steel
Vibration damper type		Rubber mounted inertia	
End thrust taken by bearing (No.)		5	
Crankshaft end play		.002-.006	.006-.010
Main bearing	Material & type		Premium aluminum
	Clearance		(a) (b)
	Journal dia. and bearing overall length	No. 1	2.4502 x .752 2.4502 x .752 2.7509 x .992
		No. 2	2.4502 x .752 2.4502 x .752 2.7505 x .992
		No. 3	2.4502 x .752 2.4502 x .752 2.7505 x .992
		No. 4	2.4502 x .752 2.4502 x .752 2.7505 x .992
		No. 5	2.4508 x 1.177 2.4508 x 1.177 2.7505 x 1.2525
	No. 6		None
	No. 7		None
	Dir. & amt. cyl. offset		None
No. bolts/main brg. cap		10 & 5 16 & 5	10 & 5 20 & 5
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		

(a) - No. 1 - .0008-.0020
 No. 2, 3 & 4 - .0011-.0023
 No. 5 - .0017-.0033

(b) - No. 1 - .0007-.0019
 No. 2, 3 & 4 - .0013-.0025
 No. 5 - .0019-.0035

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MODEL V8 - 350 V8 - 454
V8 - 270 HP V8 - 330 HP V8 - 365 HP V8 - 425 HP

ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)			Standard	NA	Standard	NA
Valve rotator, type (intake, exhaust)			None			
Rocker ratio			1.50:1		1.70:1	
Operating tappet clearance (indicate hot or cold)	Intake		Zero	.020	Zero	.024
	Exhaust		Zero	.025	Zero	.028
Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°	42°40'	56°	44°
		Closes (°ABC)	72°	94°20'	114°	92°
		Duration - deg.	280°	317°	350°	316°
	Exhaust	Opens (°BBC)	78°	112°50'	110°	86°
		Closes (°ATC)	30°	53°23'	62°	36°
		Duration - deg.	288°	346°13'	352°	302°
	Valve opening overlap		58°	96°3'	118°	80°
	Intake	Material		Alloy steel		Alloy steel;aluminized faced head
Overall length		4.870-4.889		5.215-5.235	5.204-5.224	
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				
Lift (- zero lash)		.3900	.4586	.4614	.5197	
Outer spring press. & length		Valve closed (lb. in.)	76-84 @ 1.70		69-81 @ 1.88	
		Valve open (lb. in.)	194-206 @ 1.25		228-252 @ 1.38	
Inner spring press. & length		Valve closed (lb. in.)	Spring damper		26-34 - 1.78	
		Valve open (lb. in.)	Spring damper		81-99 - 1.28	
Exhaust	Material		High alloy steel, aluminized face (a)			
	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	1.875-1.885
	Angle of seat & face		46° (seat); 45° (face)			
	Seat insert material		None			
	Stem diameter		.3410-.3417		.3713-.3720	
	Stem to guide clearance		.0010-.0027			
	Lift (- zero lash)		.4100	.4850	.4800	.5197
	Outer spring press. & length	Valve closed (lb. in.)	76-84 @ 1.70		69-81 @ 1.88	
		Valve open (lb. in.)	194-206 @ 1.25		228-252 @ 1.38	
	Inner spring press. & length	Valve closed (lb. in.)	Spring damper		26-34 - 1.78	
		Valve open (lb. in.)	Spring damper		81-99 - 1.28	

(a) Head also aluminized on V8 - 454

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (e)

	V8 - 350	V8 - 454
MODEL	270 HP	330 HP
		365 HP
		425 HP

ENGINE — LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally oiled from camshaft bearing
	Cylinder walls	Pressure jet cross sprayed
Oil pump type	Gear	
Normal oil pressure (lb. - engine rpm)	40 PSI @ 2000 RPM	
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)	Complete	
Capacity of c/case, less filter-refill (qt.)	4	5
Oil grade recommended (SAE viscosity and temperature range)	20° and above - 20W, 10W-30, 10W-40, 20W-40 0° to 60°F - 10W, 5W-30, 10W-40 Below 20°F - 5W, 5W-20, 5W-30	
Engine Service Reqmt. (MM, MS, etc.)	MS	

ENGINE — EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual		
Muffler No. & type (reverse flow, straight thru, separate resonator)	Two, reverse flow		
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .074	2.50 x .082
	Main	2.00 x .082 (a)	2.50 x .092 laminated
Tail pipe dia. (O.D. & wall thickness)	Chrome plated extension; 2.00 at connection - .048		

(a) Laminated

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	V8 - 350	V8 - 454
MODEL	270 HP	330 HP
	365 HP	425 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.)	18 approximately			
	Filler location	Center of 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		
		Optional			
	Idle speed (spec. neutral or drive)	Manual (N)	600	700	600
		Automatic (D)	550	600	700
	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	Manual	Rochester	7041213	One;	1.38 Prim.
	270hp	Automatic		7041212	4-bbl.	2.25 Sec.
	350	Manual	Holley	3989014	One;	1.686
	330hp				4-bbl.	Prim. & Sec.
	454	Manual	Rochester	7041205	One;	1.38 Prim.
	365hp	Automatic		7041204	4-bbl.	2.25 Sec.
	454	Manual	Holley	3986195	One;	1.686
	425hp	Automatic		3986196	4-bbl.	Prim. & Sec.

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	V8 - 350	V8 - 454
MODEL	270 HP	330 HP
	365 HP	425 HP

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°	177°-183°	192°-198°
	Type (centrifugal, other)	Centrifugal		
	GPM 1000 pump rpm	23 @ 2000	25 @ 2000	
Water pump	Number of pumps	One		
	Drive (V-belt, other)	V-belt		
	Bearing type	Permanently lubricated double row ball		
By-pass recirculation type (inter., ext.)	Internal		External	
Radiator core type (cellular, tube and fin, other)	Aluminum	Tube and center Copper - brass		
Cooling system capacity	With heater (qt.)	15	18	22
	Without heater (qt.)	14	17	21
	Opt. equipment-specify (qt.)	18	18	-
Water jackets full length of cyl. (yes, no)	Yes			
Water all around cylinder (yes, no)	Yes			
	Lower	Number and type (molded, straight)	1.75	1.88
		Inside diameter	One, molded	
	Upper	Number and type (molded, straight)	1.50	
		Inside diameter	One, molded	
	By-pass	Number and type (molded, straight)	None	One, molded
		Inside diameter	None	.725-.765
	Number of blades & spacing	5-staggered		
	Diameter	17.50		
Fan	Ratio-fan to crankshaft rev.	1.15:1	.949:1	
	Fan cutout type	Thermo-modulated viscous		
	Bearing type	Double row ball		
	Fan	A B	E F	H I
	Generator or alternator	A	E	H
	Water Pump	A B	E F	H I
	Power Steering	C	-	J
	Air Conditioning	D	-	K
	Air Injection	-	G	L

* Drive Belt Dimensions	L	A	B	C	D	E	F	G	H	I	J	K
Angle of V												
Nominal length (SAE)	30.75	54.25	35.14	32.25	58.00	52.75	32.46	32.50	53.75	31.86	43.50	46.25
Width												

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MODEL	V8 - 350 - 270 HP	V8 - 350 - 330 HP
	V8 - 454 - 365 HP	V8 - 454 - 425 HP

VEHICLE EMISSION CONTROL

		Type (if air injection, engine modifications, other)	Engine modifications	Air injection
Exhaust Emission Control	Air Injection Pump	Type	NOT APPLICABLE	Semi-articulated vane type
		Displacement		19.3 cubic inch
		Drive ratio		1.15:1
		Drive type		Crankshaft pulley
		Relief valve (type)		Diverter valve
	Air Injection System	Filter (describe)		Centrifugal air cleaner
		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	
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard	Induction system
			Optional	--
	Control Unit	Make and model	AC Spark Plug	
		Location	Left front of rocker cover	
		Energy source (manifold vacuum, carburetor, other)	Manifold vacuum	
		Control method (variable orifice, fixed orifice, other)	Variable orifice	
	Complete system	Discharges (to intake manifold, other)	Intake manifold	
		Air inlet (breather cap, other)	Carburetor air cleaner	
		Flame arrestor (screen, other)	Screen	
	Evaporative Emission Control	Fuel Tank	Refill Capacity (U.S. gallons)	18 approximately
Thermal expansion volume (cu. ft.)				
Pressure relief location (lbs.)			25 to 35" of Water	
		Vacuum relief location (lbs.)	7 to 14" of Water	
		Vapor-liquid separator type		
		Vapor vented to (crankcase, canister, other)	Cannister	
Carburetor		Vapor vented to (crankcase, canister, other)		
Vapor Storage	Storage provision (crankcase, canister, other)			
	Volume (cu. ft.) or capacity (grams)			
	Control valve type	Stage Valve		

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (•) 12/70

	V8 - 350	V8 - 454
MODEL	270 HP	330 HP
		365 HP
		425 HP

ELECTRICAL - SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980147		Delco-Remy 1980150	
	Voltage Rtg. & Total Plates		12 volts - 78 plates		12 volts - 90 plates	
	SAE Designation & Amp. Hr. Rtg.		62 amp. hr. @ 20 hr. rate		80 amp. hr. @ 20 hr. rate	
	Location		Behind drivers seat in storage compartment			
	Terminal grounded		Negative			
Generator or Alternator	Make		Delco-Remy			
	Model		1100901		1100950	
	Type and rating		Diode rectified with integral regulator - 42 amps.			
	Output at engine idle (neutral)		13 amps.			
	Ratio—Gen. to Cr.'s rev.		2.53:1		2.15:1	
Regulator	Make		Delco-Remy			
	Model		---			
	Type		Micro circuit unit; integral with generator			
	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		1108338	1108400
	Rotation (drive end view)		Clockwise	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		Manual - place gearshift in neutral and depress clutch Automatic - place control lever in "N" or "P" position 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	9
		Flywheel	153	168
		Manual	153	168
		Auto.	153	168
	Flywheel tooth face width	Manual	.4010-.4130	.4100-.4220
	Auto.	.4010-.4130	.4100-.4220	

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (a) 12/70

	V8 - 350	V8 - 454
MODEL	270 HP	330 HP
	365 HP	425 HP

ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.	Standard			
	Transistorized - Std., Opt., N.A.	Not available			
	Other (specify)	None			
Coil	Make	Delco-Remy			
	Model	1115270	1115272	1115287	1115263
	Amps	4.0			
	Engine stopped Engine idling	1.8			
Spark Plug	Make	AC Spark Plug			
	Model	AC R44TS	AC R43TS	AC R43TS	AC R44XL
	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	Neoprene			

ELECTRICAL - SUPPRESSION

Locations & type	
------------------	--

ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Circular dial with pointer
	Trip odometer (std. opt., N.A.)	Yes
Charge indicator - type		Ammeter
Temperature indicator - type		Electric gauge
Oil pressure indicator - type		Bourdon tube gauge
Fuel indicator - type		Electric gauge
Windshield wiper	Type - Standard	Electric, two-speed
	Type - Optional	None
Windshield washer	Type - Standard	Push-button
	Type - Optional	None
Horn	Type	Vibrator
	Number used	One
	Amp draw (each)	4.5-6.5 @ 12.5 V (low note)
Other		Mechanical tachometer

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (12/70)

MODEL	V8-350 270 & 330 HP	V8-454 365 HP	V8-454 425 HP
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● DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Chevrolet, single dry - disc semi-centrifugal	Chevrolet, dual dry disc Centrifugal
Type pressure plate springs		Circular plate diaphragm, bent finger design	
Total spring load (lb.)		2450 - 2750	1600 - 1800
No. of clutch driven discs		One	Two
Clutch facing	Material	Woven type asbestos	Asbestos; alum. back facing
	Outside & inside dia.	11.00 x 6.50	10.00 x 6.00
	Total eff. area (sq.in.)	123.70	201.06
	Thickness	.135 each	
	Engagement cushion- ing 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	

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std., opt. N.A.)	Not available
Manual 4-speed (std., opt. N.A.)	Standard
Automatic (std., opt. N.A.)	Optional*

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds		4-Speed (a)	4-Speed (b)	
Transmission ratios	In first	2.52:1	2.20:1	
	In second	1.88:1	1.64:1	
	In third	1.46:1	1.27:1	
	In fourth	1.00:1	1.00:1	
	In reverse	2.59:1	2.26:1	
Synchronous meshing, specify gears		All forward gears		
Shift lever location		Floor mounted with console		
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	

(a) Available all engine combinations except V8 - 454 (425 HP)

(b) Available all engine combinations except V8 - 350 (300 HP)

* Not available with V8-350 330 HP

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MODEL _____

DRIVE UNITS – AUTOMATIC TRANSMISSION - (Available all engines except V8 - 350 (370 HP))

Trade name	Turbo Hydra-Matic
Type describe	Torque converter with compound planetary gear set
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	*
Max. kickdown speed-drive range	*
Number of elements	3
Max. ratio at stall	2.10
Type of cooling (air, liquid)	Water
Nominal diameter	12.20
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
Manual 3-speed trans.	Not available
Manual 4-speed trans.	2.00 x 29.90 x 0.120
Overdrive transmission	Not available
Automatic transmission	2.00 x 29.50 x 0.095

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

(Continued)

* Upshift: V8-350 300 HP (1-2 45; 2-3 82) V8 454 365 HP (1-2 46; 2-3 82)
V8 454 425 HP (1-2 51; 2-3 94)
Kickdown: V8-350 306 HP (2-1 37; 3-2 76) V8 454 365 HP (2-1 38; 3-2 76)
V8 454 425 HP (2-1 34; 3-2 86)

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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
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		U-bolt
	Bearing	Type (plain, anti-friction)	Anti-friction
Lubric. (fitting, prepack)		Prepack	
Drive taken through (torque tube or arms, springs)			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-2105B
	SAE viscosity	Summer SAE-80
	SAE viscosity number	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	4.56
No. of teeth	Pinion	15	12	11	9	10	9	9
	Ring gear	41	37	37	32	37	37	41
Ring Gear O.D.		8.375						

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MODEL _____

DRIVE UNITS – WHEELS

Type & material	Short spoke spider, steel	
Rim (size & flange type)	Std.	15 x 8JJ
	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		F70-15B-2 ply (4 ply rating)
	Type (bias, radial, etc.)		Nylon
	Full rated Inflation Press.	Front	Cold - 24; Hot - 30
		Rear	Cold - 24; Hot - 30
	Rev./Mile at 50 MPH		772
Optional	Size, ply rating, & ply		None

BRAKES – PARKING

Type of control		Grip handle control
Location of control		In floor console between seats
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 0.175

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MODEL _____

BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)		Caliper disc, 4 per 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.	--		
		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		
Front to Rear Effectiveness Relationship				
Drum	Diameter (nominal)	Front		
		Rear		
	Type and material			
Disc	Outer working diameter		11.75	
	Inner working diameter		8.0	
	Working width		1.25	
	Material & type (vented/solid)		Cast iron, vented	
Wheel cylinder bore	Front	1.875		
	Rear	1.375		
Master Cylinder	Bore	1.00		
	Stroke			
Pedal arc ratio		5.23		
Line pressure at 100 lb. pedal load		576		
Shoe Clearance	Front	Self adjusting		
	Rear	Self adjusting		
Anti-skid device type (std., opt., N.A.)		N.A.		
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material	Molded asbestos	
		Size (length x width x thickness)	Prim. or out-board	5.96 x 2.21 x 0.41
			Second. or in-board	5.96 x 2.21 x 0.41
		Segments per shoe		One
	Rear Wheel	Material	Molded asbestos	
		Size (length x width x thickness)	Prim. or out-board	5.96 x 2.21 x 0.41
			Second. or in-board	5.96 x 2.21 x 0.41
		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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MODEL _____

STEERING

Manual (std., opt., NA)		Standard - energy absorbing steering column	
Power (std., opt., NA)		Optional	
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt and telescopic steering wheel; 3" adjustment	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	15.0	
	Power	15.0	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	39.0
		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 Steering
		Ratios	16.0:1
		Gear	20.2:1
	No. wheel turns (stop to stop)	Overall	3.4
Power	Type (coaxial, linkage, etc.)	Linkage, power pump assisted	
	Make	Saginaw Steering	
	Gear	Type	Same as manual
		Ratios	16.0:1
		Gear	17.6:1
	Pump driven by	Crankshaft pulley	
No. wheel turns (stop to stop)	2.9		
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.)	$7^{\circ} \pm 1/2^{\circ}$	
	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.)	Standard: $+1^{\circ} \pm 1^{\circ}$; Power Steering $+2-1/4^{\circ} \pm 1^{\circ}$	
	Camber (deg.)	$+3/4^{\circ} \pm 3/4^{\circ}$ (a)	
	Toe-in (outside track inches)	$3/16 - 5/16$ (a)	
Steering spindle & joint type		Steering knuckle with spherical joint	
Wheel Spindle	Diameter	Inner bearing	$1.37455 \pm .00025$
		Outer bearing	$0.84305 \pm .00025$
	Thread size	27/32-20 NEF-3 (modified)	
	Bearing type	Taper roller	

(a) Rear wheel alignment: Camber $-7/8^{\circ} \pm -1/2^{\circ}$
 Toe-in $1/32$ to $3/32$

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MODEL _____

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 door opening, under frame Rear: 3" forward of wheel opening, under frame
Shock absorber front & rear	Type Direct double acting hydraulic Make Delco Piston dia. 1.00
Other special features	

SUSPENSION – FRONT

Type and description	Independent: SLA with coil springs 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.) 15.85 x 3.80; 138.25 x 0.600 with 350 V8 engines 15.77 x 3.80; 138.75 x 0.618 with 454 V8 engines Spring rate (lb. per in.) 250 with 350 engines; 284 with 454 engines Rate at wheel (lb. per in.) 89 with 350 engines; 97 with 454 engines
Stabilizer	Type (link, linkless, frameless) Link Material & bar diameter 0.75 with 350 engines; 0.9375 with 454 engines

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.) 85 Rate at wheel (lb. per in.) 121 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 0.5625
Track bar type	None

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

(b) With 454 CID engine.

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MAKE OF CAR CORVETTE MODEL YEAR 1971 DATE ISSUED 9/70 REVISED (*)

MODEL _____

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 *	25.4
		Lowest	--
	Tail	Highest	27.1
		Lowest	--
	Sidemarker	Front	18.0
		Rear	19.0
Distance from C/L of car to center of bulb	Headlamp	Inside	11.3
		Outside *	18.0
	Tail	Inside	13.95
		Outside	21.22
	Directional	Front	22.52
		Rear	21.22

* If single headlamps are used enter here.

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VEHICLE WEIGHTS

[illegible]

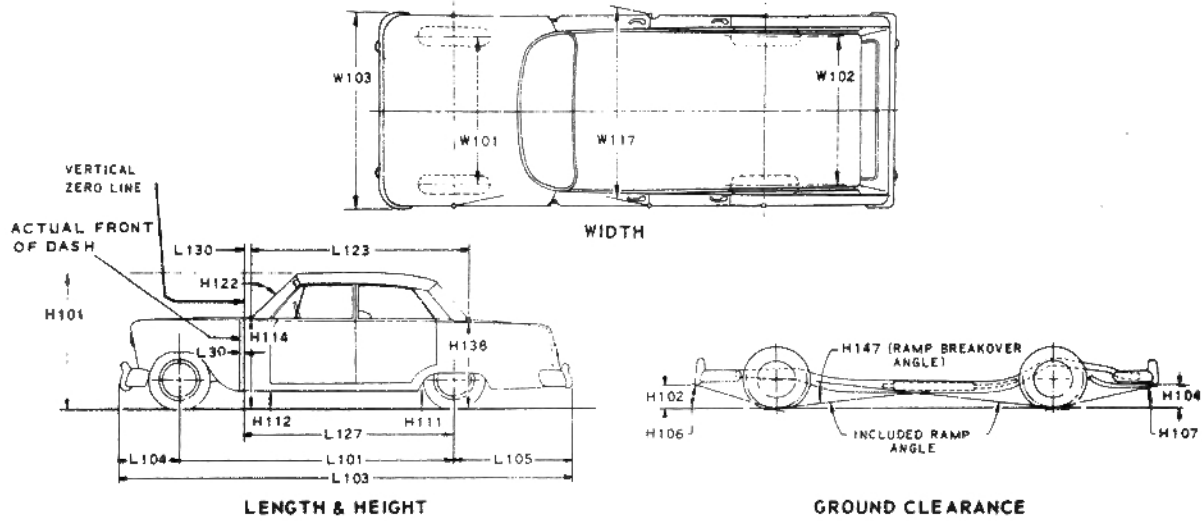
*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

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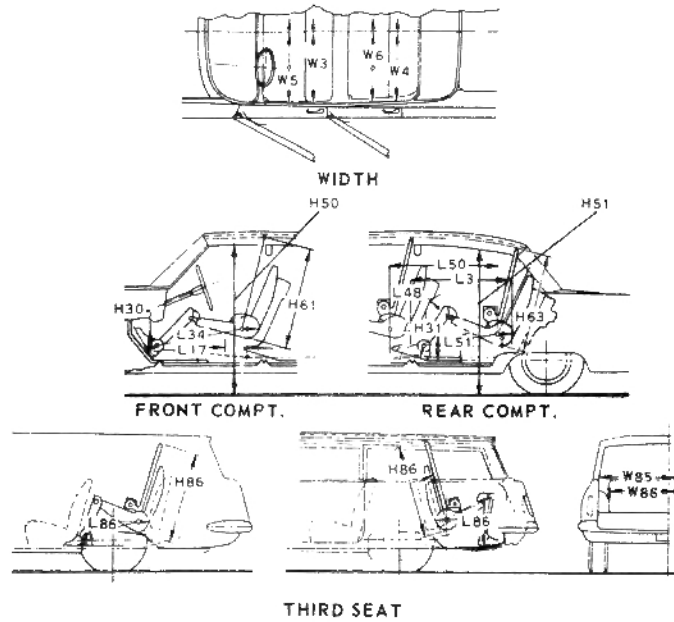
CAR AND BODY DIMENSIONS

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 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 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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