

AMA-40A
1970

AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	CHEVELLE
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR	1970
		ISSUED:	9-69
		REVISED (●)	2-70

NOTES:

- The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - 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.	
		L-6 Engine	V-8 Engine
MALIBU			
2-Door Sport Coupe, 5-Passenger		13537	13637
4-Door Sport Sedan, 6-Passenger		13539	13639
2-Door Convertible, 5-Passenger		13567	13667
4-Door Sedan, 6-Passenger		13569	13669
STATION WAGONS			
Nomad, 4-Door, 2-Seat		13136	13236
Greenbrier, 4-Door, 2-Seat		13336	13436
Greenbrier, 4-Door, 3-Seat		-----	13446
Concours, 4-Door, 2-Seat		13536	13636
Concours, 4-Door, 3-Seat		-----	13646
Concours Estate, 4-Door, 2-Seat		-----	13836
Concours Estate, 4-Door, 3-Seat		-----	13846
EL CAMINO			
2-Door Sedan Pick-up, 3-Passenger (Standard)		13380	13480
2-Door Sedan Pick-up, 3-Passenger (Custom)		13580	13680
●CHEVELLE			
2-Door Sport Coupe, 5-Passenger		13337	13437
4-Door Sedan, 6-Passenger		13369	13469

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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.	4-Door Sedan	2-Door Spt.Cpe.	4-Door Spt.Sedan	Convert-ible	Station Wagon	Sedan Pickup
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WIDTH

Track - Front	W101			60.0			
Track - Rear	W102			59.8			
Maximum overall car width	W103			75.4			
Body width at No. 2 pillar	W117	74.2	- -	74.2	- - - -	72.2	- -

LENGTH

Body "O" to front of dash	L 30			0.0			
Wheelbase	L101	116.0	112.0	116.0	112.0	116.0	
Overall car length	L103	201.2	197.2	201.2	197.2	206.5	
Overhang - front	L104			37.5			
Overhang - rear	L105			47.7		53.0	
Body upper structure length	L123	102.9	96.8	102.9	94.7	130.8	NA
Body "O" line to ϕ of rear wheel	L127	99.5	95.5	99.5	95.5	99.5	
Body "O" line to w/s cowl point	L130			10.4			NA

HEIGHT

Passenger Distribution (front & rear)		2-3				2-3-2(a)	2 Frt
Trunk/Cargo load (lbs.)		200				300	800
Overall height	H101	53.2	52.6	53.2	52.9	55.1	54.4
Cowl height	H114	38.0	38.1	38.0	38.1	39.4	39.1
Deck height	H138	NA					
Rocker panel - front	H112	To ground	8.4	8.5	8.4	8.5	9.7
		From front wheel ϕ					9.4
Rocker panel - rear	H111	To ground	7.5	7.2	7.5	7.2	9.2
		From rear wheel ϕ					8.5
Windshield slope angle	H122	53.0					

GROUND CLEARANCE

Bumper to ground - front	H102	13.8	14.3	13.8	14.3	15.0	15.0
Bumper to ground - rear	H104	15.7	15.1	15.7	15.1	12.9	11.9
Angle of approach	H106	25.2	25.5	25.2	25.5	26.5	26.0
Angle of departure	H107	21.2	21.0	21.2	21.0	17.0	16.5
Ramp breakover angle	H147	13.2	13.6	13.2	13.6	15.5	15.0
Min. running clearance (Specify)	H156	4.7	4.6	4.7	4.6	6.2	5.7

(a) - 3-seat wagon

(b) - Exhaust system 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	SAE Ref. No.	4-Door Sedan	2-Door Spt.Cpe.	4-Door Spt.Sedan	Convert-ible	Station Wagon	Sedan Pickup
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FRONT COMPARTMENT

Effective head room	H61	38.5	37.5	38.1	38.3	38.1	38.2
Max. eff. leg room — accelerator	L34	42.7		42.8			42.5
H Point to Heel point	H30			8.1			
H Point travel	L17			4.8			
Shoulder room	W 3	58.2	58.2	58.4	58.2	58.3	58.2
Hip room	W 5	59.8	59.7	59.5	59.7	59.7	59.8
Upper body opening to ground	H50	48.6	48.5	44.1	48.6	50.0	49.7

REAR COMPARTMENT

H Point couple distance	L50	32.8	30.6	32.8	30.6	32.8	---
Effective head room	H63	37.1	36.3	37.1	36.9	38.3	---
Min. effective leg room	L51	35.0	32.3	34.9	32.3	34.6	---
H Point to Heel point	H31	10.8	10.1	10.7	10.1	10.6	---
Min. knee room	L48	2.3	0.7	2.3	0.7	2.3	---
Rear Compartment room	L 3	25.8	23.7	25.8	23.7	26.1	---
Shoulder room	W 4	57.4	56.9	57.2	47.9	57.4	---
Hip room	W 6	59.4	52.9	59.2	50.4	59.4	---
Upper body opening to ground	H51	48.1	---	48.5	---	48.3	---

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	13.5	14.6	13.5	8.5	- - -	-
Liftover height	H195	26.6	25.9	26.6	25.9	- - -	18.7
Position of spare tire storage		Horizontal; right side of trunk				(b)	(a)
Method of holding lid open		Boxed hinges with torsion rod					---

STATION WAGON — THIRD SEAT

Shoulder Room	W85		57.5				
Hip room	W86		47.0				
Effective leg room	L86		30.5				
Effective head room	H86		35.9				
Seat facing direction			Rearward				

STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202		90.9				
Cargo length at belt — front seat	L204		79.9				
Cargo width — Wheelhouse	W201		44.5				
Opening width at belt	W204		49.6				
Maximum cargo height	H201		31.6				
Rear opening height	H202		28.6				
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2		94.0	83.9 (e)			

(a) Behind passenger's seat

(b) Rear quarter

(c) Additional 70.0 cu.ft. hidden comp't. space on 2-seat, 5.6 cu.ft. on 3-seat wagon.

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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		Standard	A/C
All Models except Pickups & Station Wags Pickups & Station Wags	Turbo- Thrift 250 L-6 (Base)	One; 1-bbl.	8.5:1	155 @ 4200	235 @ 1600	3-spd. manual (2.85:1 low)	3.08	Not Available
						2-spd. automatic*	2.73	
						3-spd. automatic*		
						3-spd. manual (2.85:1 low)	3.36	
						2-spd. automatic*	3.08	
All Models except Pickups & Station Wags Pickups & Station Wags	Turbo- Fire 307 V-8 (Base)	One; 2-bbl.	9.00:1	200 @ 4600	300 @ 2400	3-spd. manual (2.85:1 low)	3.08	3.08
						2-spd. automatic*		
						4-spd. manual* (2.85:1 low)	3.36	3.36
						3-spd. automatic*	2.73	2.73
						3-spd. manual (2.85:1 low)	3.36	3.36
4-spd. manual* (2.85:1 low)								
2-spd. automatic*								
						3-spd. automatic*	3.08	3.08
All Models	Turbo- Fire 350 V-8 (L-65)*	One; 2-bbl.	9.00:1	250 @ 4800	345 @ 2800	3-spd. manual (2.54:1 low)	3.08	3.08
						2-spd. automatic*	2.73	2.73
						4-spd. manual* (2.54:1 low)	3.36	3.36
						3-spd. automatic*	2.56	2.56
*-Optional **-Positraction optional for all models								

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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		Standard	A/C	
All Models	Turbo- Fire 350 V8 (L48)*	One; 4-bbl.	10.25:1	300 @ 4800	380 @ 3200	4-spd. manual* (2.52:1 low)	3.31	3.31	
						2-spd. automatic*			
						3-spd. automatic*	2.73	2.73	
All Models	Turbo- Jet 400 V8 (402 CI) (LS3)	One; 4-bbl.	10.25:1	330 @ 4800	410 @ 3200	4-spd. manual* (2.52:1 low)	3.31	3.31	
						3-spd. automatic*			
Sport Coupe Convertible Pickup(13680)	Turbo- Jet 396 V8 (402 CI) (L34)*	One; 4-bbl.	10.25:1	350 @ 5200	415 @ 3400	4-spd. manual* (2.52:1 low)	3.31	3.31	
						4-spd. manual *			
						3-spd. automatic*			
Sport Coupe Convertible Pickup (13680)	Turbo- Jet 454 V8 (LS5)*	One; 4-bbl.	10.25:1	360 @ 4400	500 @ 3200	H.D. 4-spd. manual* (2.20:1 low)	3.31	3.31	
						3-spd. automatic*			
*-Optional									
**-Positraction optional for all models									

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MAKE OF CAR	CHEVELLE	MODEL YEAR	1970	DATE ISSUED	9-69	REVISED (a)
MODEL	Turbo-Thrift 250 L-6 155 HP	Turbo-Fire 307 V-8 200 HP	Turbo-Fire 350 V8 250 HP			

ENGINE—GENERAL

Type, no. cyls., valve arr.		In-line 6 OHV	90° V-8 OHV	
Bore and stroke (nominal)		3.875 x 3.53	3.875 x 3.25	4.00 x 3.48
Piston displacement, cu. in.		250	307	350
Bore spacing (C to C)		4.40		
No. system (front to rear)	L. Bank	1-2-3-4-5-6	1-3-5-7	
	R. Bank	In-line	2-4-6-8	
Firing order		1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		8.5:1	9.00:1	
Cylinder Head Material		Cast Iron		
Cylinder Block Material		Cast Iron		
Cyl. Sleeve-Wet, dry, none		None		
Number of mtg. points	Front	Two		
	Rear	One		
Engine installation angle		4° 37'	4° 46'	
Taxable horsepower	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{2.5}$	36.0	48.0	51.2
Publishing max. bhp* @ eng. RPM		155 @ 4200	200 @ 4600	250 @ 4800
Publishing max. torque * (lb. ft. @ RPM)		235 @ 1600	300 @ 2400	345 @ 2800
Recommended fuel regular - premium		Regular		

ENGINE—PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat notched head, slipper skirt		
Weight (piston only) oz.	20.24	22.00	25.76
Clearance	Top land	.0245 - .0335	.0235 - .0325
(limits)	Skirt		
	Top	.0005 - .0011 (a)	.0005 - .0011 (b)
	Bottom		.0007 - .0013 (c)
Ring groove	No. 1 ring	.2153 - .2218	.2113 - .2178
depth	No. 2 ring	.2153 - .2218	.2113 - .2178
	No. 3 ring	.2093 - .2158	.2053 - .2118
	No. 4 ring	None	

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

- (a) Measured 2.44 from top of piston
- (b) Measured 1.675 from top of piston
- (c) Measured 1.560 from top of piston

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MAKE OF CAR	CHEVELLE	MODEL YEAR	1970	DATE ISSUED	9-69	REVISED (e)	
MODEL	Turbo-Fire 350 V-8 300 HP	Turbo-Jet 400 V-8 330 HP	Turbo-Jet 396 V-8 350 HP	Turbo-Jet 454 V-8 360 HP			

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V8 OHV			
Bore and stroke (nominal)	4.00 x 3.48	4.126 x 3.76	4.251 x 4.00	
Piston displacement, cu. in.	350	402	454	
Bore spacing (C to C)	4.40	4.84		
No. system (front to rear)	L. Bank	1-3-5-7		
	R. Bank	2-4-6-8		
Firing order	1-8-4-3-6-5-7-2			
Compress. ratio (nominal)	10.25:1			
Cylinder Head Material	Cast iron			
Cylinder Block Material	Cast iron			
Cyl. Sleeve-Wet, dry, none	None			
Number of mtg. points	Front	Two		
	Rear	One		
Engine installation angle	4° 46'			
Taxable horsepower	Di ² xNo. Cyl. 2.5	51.2	54.5	57.8
Publishing max. bhp* @ eng. RPM	300 @ 4800	330 @ 4800	350 @ 5200	360 @ 4400
Publishing max. torque* (lb. ft. @ RPM)	380 @ 3200	410 @ 3200	415 @ 3400	500 @ 3200
Recommended fuel regular - premium	Premium			

ENGINE—PISTONS

Material	Cast aluminum alloy			
Description and finish	Flat, notched hd. slipper skirt	Domed head, slipper skirt		
Weight (piston only) oz.	25.76	24.93	25.12	
Clearance (limits)	Top land	.0235-.0325	.0306-.0374	.0306-.0374
	Skirt	Top	.0007-.0013 (a)	.0018-.0026 (b)
		Bottom	- - -	.0020-.0028 (c)
Ring groove depth	No. 1 ring	.2218-.2284	.2328-.2392	.2348-.2412
	No. 2 ring	.2218-.2284	.2328-.2392	.2348-.2412
	No. 3 ring	.2038-.2103	.2183-.2247	.2183-.2247
	No. 4 ring	None		

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

(a) Measured 1.560 from top of piston

(b) Measured 1.942 from top of piston

(c) Measured 1.74 from top of piston

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MAKE OF CAR	CHEVELLE	MODEL YEAR	1970	DATE ISSUED	9-69	REVISED (*)
MODEL	L6-250 155 HP	V8-307 200 HP	V8-350 250&300 HP	V8-400 330 HP	V8-396 350 HP	V8-454 360 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 material, coating, etc. lower	Cast alloy iron; barrel face (a)				
		Cast alloy iron; inside bevel; tapered face (b)				
	Width	(c)	(d)	(e)	(f)	(g)
	Gap	.010-.020		(h)	.010-.020	
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails - steel, chrome plated OD; Expander-stainless steel				
	Width	.1870 - .1890 (assembled)				
	Gap	.015 - .055				
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	None	
	In rod or piston Material		
Clearance	In piston	.00015-.00025	.00025-.00035
	In rod	.00030-.0004	
Direction & amount offset in piston		Major thrust side .060	

ENGINE - CONNECTING RODS

Material	Drop forged steel		
Weight (oz.)	12.50	20.80	27.84
Length (center to center)	5.695 - 5.705		6.130 - 6.140
Bearing	Material & Type	Copper lead alloy (sintered) Stl. bkd.	Premium Aluminum
	Overall length	.807	.797
	Clearance (limits)	.0007-.0027	.0013-.0035
	End play	.009-.014	.008-.014

- (a)-Chrome plated on L6-250, V8-307 & 350; Molybdenum inlay on V8-396, 400 & 454
 (b)-Wear resistant coating on L6-250, V8-307 & 350; Chrome plating on V8-396, 400 & 454
 (c)-Upper .0628-.0633; lower .0623-.0633
 (d)-Upper .0775-.0780; lower .0770-.0780
 (e)-Upper .0775-.0780; lower .0770-.0775
 (f)-Upper & Lower .0770-.0780
 (g)-Upper & Lower .0770-.0775
 (h)-Upper .010-.020; lower .013-.025

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MODEL	L6-250 155 HP	V8-307 200 HP	V8-350 250 & 300 HP	V8-400 330 HP	V8-396 350 HP	V8-454 360 HP
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ENGINE - CRANKSHAFT

Material	Cast nodular iron		Forged steel
Vibration damper type	Rubber mounted inertia		
End thrust taken by bearing (No.)	7	5	
Crankshaft end play	.002 - .006		.006-.010
Main bearing	Material & type	Steel backed insert; copper lead alloy or premium aluminum lining selected for specific application	
	Clearance	.0003-.0029	(a) (b)
	Journal dia. and bearing overall length	No. 1	2.3004 x .752 2.4502 x .752 2.7509 x .992 2.7503 x .992
		No. 2	2.3004 x .752 2.4505 x .752 2.7510 x .992 2.7505 x .992
		No. 3	2.3004 x .752 2.4505 x .752 2.7505 x .992 2.7505 x .992
		No. 4	2.3004 x .752 2.4505 x .752 2.7505 x .992 2.7505 x .992
		No. 5	2.3004 x .752 2.4508 x 1.177 2.7510 x 1.2525 2.7510 x 1.2525
		No. 6	2.3004 x .752 None
		No. 7	2.3004 x .760 None
	Dir. & amt. cyl. offset	None	
Crankpin journal diameter	1.999-2.000	2.099-2.100	2.199 - 2.200

ENGINE - CAMSHAFT

Location		(c)	In block above crankshaft		
Material		Cast alloy iron			
Bearings	Material	Steel backed babbitt			
	Number	4	5		
Type of Drive	Gear or chain		Chain		
	Crankshaft gear or sprocket material		Steel sprocket		
	Camshaft gear or sprocket material		(d) Nylon teeth with aluminum hub		
	Timing chain	No. of links	None	46	50
		Width	None	.780	.740
		Pitch	None	.500	.500

ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard		
Valve rotator, type (intake, exhaust)	None		
Rocker ratio	1.75:1	1.50:1	1.70:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	

(Continued)

(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

(c) Above and to right of crankshaft

(d) Bakelite and fabric composition with steel hub.

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MODEL	L6-250 155 HP	V8-307 200 HP	V8-350 250 & 300 HP	V8-400 330 HP	V8-396 350 HP	V8-454 360 HP
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ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	28°	28°	56°
		Closes (°ABC)	48°	72°	78°	114°
		Duration - deg.	244°	280°	286°	350°
	Exhaust	Opens (°BBC)	46° 30'	78°	75°	110°
		Closes (°ATC)	17° 30'	30°	31°	62°
		Duration - deg.	244°	288°	286°	352°
	Valve opening overlap		33° 30'	58°	59°	118°
Intake	Material		Alloy steel; aluminized face-all engines except V8-307 & 350 (a)			
	Overall length		4.902-4.922	4.870-4.889	5.215-5.235	
	Actual overall head dia.		1.715-1.725	1.935-1.945	2.060-2.070	
	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)		.3880	.3900	.3983	.4614
	Outer spring press. & length	Valve closed (lb. @ in.)	56-64 @ 1.66	76-84 @ 1.70	69-81 @ 1.88	
		Valve open (lb. @ in.)	180-192 @ 1.27	194-206 @ 1.25	228-252 @ 1.38	
	Inner spring press. & length	Valve closed (lb. @ in.)	None	Spring Damper	26-34 @ 1.78	
		Valve open (lb. @ in.)	None	Spring Damper	81-99 @ 1.28	
Exhaust	Material		High alloy steel, aluminized face (a)			
	Overall length		4.913 - 4.933	5.345 - 5.365		
	Actual overall head dia.		1.495 -1.505	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			
	Lift (= zero lash)		.3880	.4100	.3983	.4800
	Outer spring press. & length	Valve closed (lb. @ in.)	56-64 @ 1.66	76-84 @ 1.70	69-81 @ 1.88	
		Valve open (lb. @ in.)	180-192 @ 1.27	194-206 @ 1.25	228-252 @ 1.38	
	Inner spring press. & length	Valve closed (lb. @ in.)	None	Spring Damper	26-34 @ 1.78	
		Valve open (lb. @ in.)	None	Spring Damper	81-99 @ 1.28	

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	Nozzle	Centrifugally oiled from camshaft bearing
	Cylinder walls	Splash	Pressure jet cross sprayed

(Continued)

(a) Head also aluminized on V8-400, 396 & 454

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MODEL L6-250 | V8-307 | V8-350 | V8-400-396 & 454

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb./sq. in. @ 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
Oil grade recommended (SAE viscosity and temperature range)	20°F and above - 20W, 10W-30, 10W-40, 20W-40 0° to 60°F - 10W, 5W-30, 10W-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)	Single	Single with crossover	Dual with resonators
Muffler No. & type (reverse flow, straight thru, separate resonator)	One; reverse flow		2-mufflers 2-resonators (d)
Exhaust pipe dia. (O.D., wall thick.)	None	2.00 x .082 (a)	2.00 x .069 (b)
Branch	2.00 x .064	2.50 (2.00 on V8-307)	2.00 x .082 (a)
Main			
Tail pipe dia. (O.D. & wall thickness)	1.88 x .069		2.00 x .069 (c)

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system
	Optional	None
Make and model		AC Spark Plug
Location		On rocker cover - Top rear on L-6; Left Front on V8
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) Laminated

(b) Pipe - muffler to resonators

(c) Round tail pipe on V8-400; Oval type extension on V8-396 & 454

• (d) One (transverse) resonator on Pick-Ups

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1970	DATE ISSUED	9-69	REVISED (a)	
MODEL		L6-250 155 HP	V8-307 200 HP	V8-350 250 HP	V8-400 300 HP	V8-396 330 HP	V8-454 350 HP

ENGINE - EXHAUST EMISSION CONTROL

MANUAL TRANSMISSIONS

Type (Air injection, engine modifications, other)		Engine Modifications															
Air Injection Pump	Type	NOT APPLICABLE															
	Displacement																
	Drive ratio																
	Drive type																
	Relief valve (type)																
Air Injection System	Filter (describe)	NOT APPLICABLE															
	Air distribution (head, manifold, etc.)																
	Point of entry																
	Injection tube I.D.																
	Check valve type																
Carburetor	Backfire protection (type)	REFER TO PAGE 10A															
	Make																
	Model																
	Barrel size																
	Idle speed																
Distributor	Drive	REFER TO PAGE 10A															
	Neutral																
	Idle A/F mixture																
	Aux. Adv. Systems (type)									Transmission controlled vacuum spark advance							
	Make									Delco-Remy							
	Model									1110463	1111995	1112001	1111996	1111998	1111999	1111963	
	Cent'fgal adv. in crank degrees @ eng. rpm									Start (rpm)	900	1000	1000	950	900	900	1085
										Intermed. points deg. @ rpm	11.5 @ 1300	10 @ 1600	15 @ 1800	20 @ 1800	17 @ 2000	21 @ 2000	17 @ 2100
										Max. deg. @ rpm	32 @ 4200	28 @ 4300	36 @ 4100	30 @ 4700	32 @ 5000	36 @ 5000	24 @ 3200
	Vacuum adv. in crank degrees @ eng. rpm									Start (in Hg)	7.00	6.00	7.00	8.00	8.00		
Intermed. points deg. @ in. Hg		None															
Max. deg. @ in.		23 @ 16	15 @ 12	24 @ 17.5	20 @ 17	15 @ 15.5											
Vacuum Source		Carburetor															
Timing - Crank degrees @ rpm **		TDC	2BTDC	TDC	TDC	4BTDC	TDC	6BTDC									
Cooling System		-----															
Exhaust System		-----															

** - At idle - see page 10A for idle speeds.

AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (a)

MODEL	L6-250 155HP	V8-307 200 HP	V8-350 250 HP	300 HP	V8-400 330 HP	V8-396 350 HP	V8-454 360 HP
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ENGINE—EXHAUST EMISSION CONTROL

AUTOMATIC TRANSMISSIONS

Type (Air injection, engine modifications, other)		Engine Modification															
Air Injection Pump	Type	NOT APPLICABLE															
	Displacement																
	Drive ratio																
	Drive type																
	Relief valve (type)																
Air Injection System	Filter (describe)	NOT APPLICABLE															
	Air distribution (head, manifold, etc.)																
	Point of entry																
	Injection tube I.D.																
Carburetor	Check valve type	REFER TO PAGE 10A															
	Backfire protection (type)																
	Make																
	Model																
	Barrel size																
Distributor	Idle speed	REFER TO PAGE 10A															
	Drive																
	Neutral																
	Idle A/F mixture																
	Aux. Adv. Systems (type)									Transmission controlled vacuum spark advance							
	Make									Delco-Remy							
	Model									1110464	1112005	1112002	1111997	1111998	1112000	1111963	
	Cent'fgal adv. in crank degrees @ eng. rpm									Start (rpm)	900	1000	1100	950	900	1000	1085
	Intermed. points deg. @ rpm									17@1950	12@2200	8@1400	20@1800	17@2000	15@1800	17@2100	
										Max. deg. @ rpm	28@4200	24@4300	32@4400	30@4700	32@5000	36@5000	24@3200
Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	7.00	8.00	7.00	8.00	8.00	6.00	8.00									
	Intermed. points deg. @ in. Hg	None															
	Max. deg. @ in.	23@16	20@17	24 @ 17.5	20@17	15@15.5	15@12	15@15.5									
	Vacuum Source	Carburetor															
Timing - Crank degrees @ rpm **		4BTDC	8BTDC	4BTDC	4BTDC	4BTDC	4BTDC	6BTDC									
Cooling System		-----															
Exhaust System		-----															

**-At idle - see page 10A for idle speeds

AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (•) 2-70

	L6-250	V8-307	V8-350	V8-400	V8-396	V8-454
MODEL	155 HP	200 HP	250	300	330 HP	360 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.) ●	Approximately 20 - Station Wagons - 18				
	Filler location	Behind hinged rear license plate **				
Fuel Pump	Type (elec. or mech.)	Mechanical				
	Locations	Lower right front of engine				
	Pressure range *	400-500	550-7.00	7.50 - 9.00		
Vacuum booster (std., optional, none)		None				
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and				
	Locations	paper filter (sintered bronze with V8-307) in carburetor inlet				
Carburetor	Choke type		Automatic			
	Intake manifold heat control (exhaust or water)		Exhaust			
	Air cleaner type	Standard	Thermostatically controlled; Oil wetted paper element			
		Optional	None			
	Idle speed (spec. neutral or drive)	Manual (N)	750	700	750	700
		Automatic (D)	600			
		Idle A/F mix.	Not specified			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
13100	250	Manual	Rochester	7040017	One;	1.69
13300		Automatic		7040014	1-bbl.	
13500						
13200	307	Manual	Rochester	7040101(a)	One;	1.44
		Automatic		7040110(b)	2-bbl.	
	13400	350	Manual	Rochester	7040113(c)	One;
250hp	Automatic	7040114(d)	2-bbl.			
13600	350	Manual	Rochester	7040203	One;	1.38 Prim.
13800		300hp		Automatic	7040202	4-bbl.
	400	Manual	Rochester	7040201	One;	1.38 Prim.
		330hp		Automatic	7040200	4-bbl.
	13637	396	Manual	Rochester	7040205	One;
13667	350hp	Automatic	7040204		4-bbl.	2.25 Sec.
13680	454	Manual	Rochester	7040201	One;	1.38 Prim.
	360hp	Automatic		7040200	4-bbl.	2.25 Sec.

(a) 7040103 with Air Conditioning

(b) 7040112 with Air Conditioning

(c) 7040115 with Air Conditioning

(d) 7040116 with Air Conditioning

* Shut off pressure - 1800 RPM at pump outlet

** Left Quarter panel on Station Wagons

AMA Specifications—Passenger Car

Page 10 B

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (a)

MODEL Evaporation Emission Control System (California vehicles)

Fuel Tank Capacity - 18 Gals. (approximately)

Components:-

Fill Limiter - Shaped metal pan welded inside of gas tank to reserve space for normal gasoline expansion and contraction.

Canister - Canister of activated carbon stores vapors vented from gas tank until removed and burned in the engine.

Liquid Separator - Connected in vent lines to canister. Separates and returns liquid fuel to the tank.

Constant flow purge line - Incorporates an orifice to regulate flow to manifold under (canister to manifold) all engine operating conditions, including idle.

Variable Flow Purge Line - Becomes functional above engine idle speeds to more (canister to air cleaner) completely purge the canister (snorkel)

Aluminum Heat Dissipator- Positioned between insulation blocks and intake manifold. Provides optimum heat transfer to surrounding atmosphere.

Carburetor Model No.'s

		<u>V8-350</u>	<u>V8-350</u>		<u>V8-400</u>		
		<u>L6-250</u>	<u>V8-307</u>	<u>250 HP</u>	<u>300 HP</u>	<u>V8-396</u>	<u>& 454</u>
Manual	Same	7040401	7040413	7040503	7040505	7040501	
Manual with A/C	as	7040403	7040415	7040503	7040505	7040501	
Automatic		7040410	7040414	7040502	7040504	7040500	
Automatic with A/C	Base	7040412	7040416	7040502	7040504	7040500	

AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (•) 2-70

MODEL	L6-250	V8-307	V8-350	V8-400	V8-396	V8-454
	155 HP	200 HP	250 HP	300 HP	330 HP	360 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°				
	Type (centrifugal, other)	Centrifugal				
Water pump	GPM @ 1000 pump rpm	26@2000	23 @ 2000	23 @ 2000	25@2000	
	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)	Tube and Center					
Cooling system capacity	With heater (qt.)	12	15	16	23	22
	Without heater (qt.)	11	14	15	22	21
	Opt. equipment-specify (qt.)	13	16	16	24	23
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	4-staggered				
	Diameter	17.62		18.00		
	Ratio-fan to crankshaft rev. ●	1.165:1	.949:1			
	Fan cutout type	None				
	Bearing type	Double row ball				
*Drive belts (indicate belt used by letter)	Fan	A	C	F		
	Generator or alternator	A	C	F		
	Water Pump	A	C	F		
	Power Steering	B	D	G		
	Air Conditioning	- -	E	H		

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38° - 42°										
Nominal length (SAE)	37.30	50.00	44.25	36.00	54.33	45.75	41.00	57.00			
Width	.380										

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1970	DATE ISSUED	9-69	REVISED (•)	2-70
MODEL		L6-250 155 HP	V8-307 200 HP	V8-350 250 & 300	V8-396 & V8 400	V8-454 360 HP	

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model	Delco-Remy 1980032	Delco-Remy 1980030	1980080
	Voltage Rtg. & Total Plates	12 volts-54 plates	12 volts - 66 plates	12 vlts. -78
	SAE Designation & Amp. Hr. Rtg.	45 amp hr @20 hr.rate	61 amp hr. @20 hr.rt.	62 lamps @20
	Location	Right side of engine compartment		
Generator or Alternator	Terminal grounded	Negative		
	Make	Delco-Remy		
	Model	1100834		
	Type and rating	Diode rectified 37 amps		
Regulator	Output at engine idle (neutral)	13 amps		
	Ratio-Gen. to Cr.'s rev.	2.53:1		
	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	1108365	1108367	1108338(a)	1108418(b)
	Rotation (drive end view)	Clockwise			
Motor control	Switch (solenoid, manual)	Solenoid			
	Starting procedure	Manual-Place gearshift lever in neutral & depress clutch			
		Automatic-Place control lever in N or P position			
Motor Drive	Engagement type		Positive shift solenoid		
	Pinion meshes (front, rear)		Rear		
	Number of teeth	Pinion	9	9	
		Flywheel	153	168	
	Flywheel tooth face width	Manual	153	168	
		Auto.	.4010 - .4130	.4100 - .4220	
	Flywheel tooth face width	Manual	.4010 - .4130	.4100 - .4220	
		Auto.	.4010 - .4130	.4100 - .4220	

(a) 1108427 with automatic transmission

(b) 1108430 with automatic transmission

AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (•) 2-70

MODEL	L6-250	V8-307	V8-350	V8-400	V8-396	V8-454
	155 HP	200 HP	250&300HP	330 HP	350 HP	360 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		115208		1115293							
	Amps	Engine stopped	4.0									
		Engine idling	1.8									
Distributor	Make											
	Model											
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)										
		Intermediate points deg. @ rpm										
		Max. deg. @ rpm										
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)										
		Intermediate points, deg. @ in. Hg.										
		Max. deg. in. Hg.										
	Breaker gap (in.)		.019									
	Cam angle (deg.)		31-34		29-31		28-30					
Breaker arm tension (oz.)				19-23		28-32						
Timing	Crankshaft deg. @ rpm		Refer to page nine									
	Mark location		Torsional damper									
Spark Plug	Make		AC Spark Plug									
	Model		ACR46T		AC R45		AC R44		AC R44T		ACR43T	
	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	Non-metallic high ignition cable
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AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (*)

	L6-250	V8-307	V8-350	V8-400	V8-396	V8-454
MODEL	155 HP	200 HP	250 HP	300 HP	330 HP	350 HP 360 HP

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	In-line with pointer	Dial with pointer
	Trip odometer (yes, no)	No	
Charge indicator – type		Tell-tale	
Temperature indicator – type		Tell-tale	
Oil pressure indicator – type		Tell-tale	
Fuel indicator – type		Electric gauge	
Other		Refer to page 23	
Windshield wiper	Type – Standard	Electric, two-speed	
	Type – Optional	None	
Windshield washer	Type – Standard	Push-button	
	Type – Optional	None	
	Type	Vibrator	
Horn	Number used	Two <i>(One - b)</i>	
	Amp draw (each)	4.5-6.5 @ 12.5 V (Low note); 4.2-6.2 @ 12.5 V (high note)	

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type	Chevrolet Single dry disc		Chevrolet, single dry disc, centrifugal	
Type pressure plate springs	Diaphragm		Diaphragm, bent finger design	
Total spring load (lb.)	1650-1850	1900-2200 <i>(a)</i>	2100-2300	2450 - 2750
No. of clutch driven discs	One			
	Material	Woven type asbestos		
Clutch facing	Outside & inside dia.	9.12 x 6.12	10.34 x 6.50	11.00 x 6.50
	Total eff. area (sq. in.)	71.82	101.54	123.70
	Thickness	.135		.140
	Engagement cushioning method	Flat spring steel between facings		
Release bearing	Type & method of lubrication	Single row ball, packed and sealed		
Torsional damping	Methods: springs, friction material	Coil springs		

(a) 2100-2300 with 4-speed transmission

(b) Chevelle series; Nomad and Greenbrier

AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (e)

MODEL _____

DRIVE UNITS — TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional with V-8 engines
Manual with overdrive (std. or opt.)	Not available
Automatic (std. or opt.)	Optional

DRIVE UNITS — MANUAL TRANS.

		L6-250	V8-350		V8-350	V8-350 (300 HP)	V8-396
		V8-307	250 HP	V8-307	250 HP	V8-396	V8-454
Number of forward speeds		3-speed		4-speed			
Transmission ratios	In first	2.85	2.54	2.85	2.54	2.52	2.20
	In second	1.68	1.50	2.02	1.80	1.88	1.64
	In third	1.00	1.00	1.35	1.44	1.46	1.27
	In fourth	---	---	1.00	1.00	1.00	1.00
	In reverse	2.95	2.63	2.85	2.54	2.59	2.26
Synchronous meshing, specify gears		All forward speeds					
Shift lever location		Steering column 3-speed Floor mounted 4-speed					
Lubricant	Capacity (pt.)	3					
	Type recommended	Meeting Military Specs MIL-L-2105B					
	SAE vis- cosity	Summer	SAE 80				
	number	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)	
Downshift accelerator control (yes, no)	
Minimum cut-in speed	
Gear ratio	
Lubricant	Capacity (pt.) (Overdrive only)
	Separate filler (yes, no)
	Type recommended
	SAE vis- cosity
	number

NOT

AVAILABLE

AMA Specifications—Passenger Car

MAKE OF CAR	CHEVELLE	MODEL YEAR	1970	DATE ISSUED	9-69	REVISED(*)	
			2-SPEED AUTOMATIC			3-SPEED AUTOMATIC	
			V8-350			L6-250	V8-396
MODEL		L6-250	V8-307	L65	L48	V8-307 & 350	400 & 454

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Powerglide				Turbo Hydra-Matic			
Type describe		Torque converter with planetary gears							
Selector location		Lever, steering column; floor mounted when used with console and optional bucket seats on convertible & coupes							
List gear ratios Selector Pattern and indicate which are used in each selector position		P-Park R-1.82 N-Neutral D-1.82-1.00 L-1.82		P-Park R-1.76 N-Neutral D-1.76-1.00 L-1.76		P-Park R-1.93 N-Neutral D-2.52-1.52-1.00 L ₂ -2.52-1.52 L ₁ -2.52		P-Park R-2.08 N-Neutral D-2.48-1.48-1.00 L ₂ -2.88-1.48 L ₁ -2.48	
		55		60		77		83	
		49		54		63		74	
		55		60		77		83	
		49		54		63		74	
Max. upshift speed—drive range		55		60		77		83	
Max. kickdown speed—drive range		49		54		63		74	
Torque converter		Number of elements		3		**			
		Max. ratio at stall		2.10					
		Type of cooling (air, liquid)		Water					
		Nominal diameter		11.75		11.75		12.20	
Lubricant		Capacity—refill (pt.)		6		6.5		5	
		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.	3.25 x 60.14 x .065 except coupes and convertibles 3.25 x 56.34 x .065 coupes and convertibles
	Manual 4-speed trans.	Same as 3-speed
	Overdrive transmission	Not available
	Automatic transmission	Same as 3-speed

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

(Continued)

** Upshift: L6-250 (1-2 43; 2-3 76); V8-307 (1-2 44; 2-3 77); V8-350 250 HP (1-2 52; 2-3 84)
V8-350 300 HP (1-2 49; 2-3 82); V8-396 (1-2 46; 2-3 74); V8-400 (1-2 57; 2-3 75); V8-454 (1-2 41; 2-3 67)

Kickdown: L6-250 (2-1 34; 3-2 71); V8-307 (2-1 34; 3-2 73); V8-350 250 HP (2-1 40; 3-2 82);
V8-350 300 HP (2-1 36; 3-2 79); V8-396 (2-1 30; 3-2 69); V8-400 (2-1 30; 3-2 69)
V8-454 (2-1 29; 3-2 62)

AMA Specifications—Passenger Car

MAKE OF CAR CHEVELLE MODEL YEAR 1970 DATE ISSUED 9-69 REVISED (*) 2-70

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 - 1.1752
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)			Control arms
Torque taken through (torque tube or arms, springs)			Control arms

DRIVE UNITS — AXLE

Type (front, rear)		Rear
Description		Semi-floating, overhung hypoid pinion and ring gear Cone clutches or dual disc clutches
Limited Slip differential, type		
Drive Pinion Offset		1.50
No. of differential pinions		Two
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		Collapsible Sleeve
Wheel bearing type		Direct on single row cylindrical
Lubricant	Capacity (pt.)	3.75 (8.125 ring gear); 4.25 (8.875 ring gear)
	Type recommended	Open Diff: Meeting Military Specs. MIL-L-2105B
	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		2.56	2.75	3.08	3.36	2.73	~ 3.31
No. of teeth	Pinion	16	15	12	11	15	13
	Ring gear	41	41	37	37	41	48
Ring Gear O.D.		8.125				8.875	

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MODEL _____

DRIVE UNITS – WHEELS

Type & material	Short spoke disc; steel	
Rim (size & flange type)	Std.	14 x 5JJ; 14 x 6JJ - Station Wagons; 14 x 7JJ - "SS" models
	Opt.	14 x 6JJ
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 hex nuts 7/16-20 UNF - 2B

MODEL _____

DRIVE UNITS – TIRES

Standard	Size, Load Range, and ply		E78x14/B/2 (a); F78x14/B/2 (b); F70x14/B/2 (c); G70x14/B/2 (d); G78x14/B/2 or D/2 (e).
	Type (bias, radial, etc.)		Fiberglass Bias Belted
	Full rated inflation Press. *	Front	Cold 24; Hot 30
		Rear	Cold 28; Hot 34
	Rev./Mile at 45 MPH		800
Optional	Size, Load Range, and ply		F78x14/B/2 (b)
			F70x14/B/2 (c)
			G78x14/D/2 (e)

BRAKES – PARKING

Type of control	Foot pedal apply; handle release	
Location of control	On instrument panel, left of steering column	
Operates on	Rear service brakes	
If separate from service brakes	Type (internal or external)	-----
	Drum diameter	-----
	Lining size (length x width x thickness)	-----

* Pressures shown are up to base vehicle load limit.

- (a) Base with six-cylinder engines except station wagons and El Camino.
- (b) Base for V-8's except "SS" models and station wagons; optional for six-cylinder models except station wagons and El Camino.
- (c) Base for "SS" models except El Camino; optional for all but station wagons.
- (d) Base for El Camino "SS".
- (e) Base for station wagons: B or D depending on optional equipment; D is optional for all wagons.

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MODEL

BRAKES—SERVICE

BRAKES - SERVICE				STANDARD		OPTIONAL (a)		
Type (drum) or (disc & no. of pistons) ●				Drum (front finned) (b)		Disc-front (b)		
Self adjusting (std., opt., N.A.)				Standard				
Special Valving	Type (proportion, delay, metering, other)			None		Metering and proportioning (except Station Wagons)		
Power brake make & type (remote, int., etc.)	Std.	●		---		(c)		
	Opt.	●		(c)		---		
Effective area (sq. in.) *				155.2		106.1		
Gross lining area (sq. in.) **				168.9		118.1		
Swept area (sq. in.) ***				268.8		332.4		
Front to Rear Effectiveness Relationship				62				
Drum	Diameter (nominal)	Front		9.5		---		
		Rear		9.5				
	Type and material			Composite; cast iron finned rim; steel web				
Rotor ●	Outer working diameter			---		11.00		
	Inner working diameter			---		7.18		
	Working width			---		1.00		
	Material & type (vented/solid)			---		Cast iron; vented		
Wheel cylinder bore	Front			1.125		2.9375		
	Rear			.875		.875		
Master Cylinder	Bore			1.00		1.125		
	displacement distribution	Front	%	58.5		74		
		Rear	%	41.5		26		
Pedal arc ratio				6.32		3.53		
Line pressure at 100 lb. pedal load				805		1025		
Shoe Clearance	Front			Self adjusting				
	Rear			Self adjusting				
Brake lining	Bonded or riveted			Bonded		Riveted		
	Front Wheel	Material		Molded asbestos				
		Size (length x width x thickness)	Prim. or out-board	9.01 x 2.5 x .17		5.96 x 2.21 x .41		
			Second. or in-board	9.75 x 2.5 x .20		5.96 x 2.21 x .41		
		Segments per shoe			One			
		Rear Wheel	Material		Molded asbestos			
	Size (length x width x thickness)		Prim. or out-board	9.01 x 2.0 x .17		9.01 x 2.0 x .17		
			Second. or in-board	9.75 x 2.0 x .20		9.75 x 2.0 x .20		
	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.)

(a) Standard with V8-396 & V8-454 "SS" and all V8 wagons except 13236.

(b) Drum-single piston, duo servo; Disc-single piston, floating caliper.

(c) Delco-Moraine vacuum power unit; integral

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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 (std., opt., NA)	Tilt: tilt achieved with universally-jointed steering shaft base of steering wheel; 5 inch vertical travel range		
Wheel diameter		Manual	Optional		
		Power	16.25 x 15.50 (Oval)		
			Same as manual		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	45.5		
		Curb to curb (l. & r.)	42.0		
	Inside rear	Wall to wall (l. & r.)			
		Curb to curb (l. & r.)			
Manual	Gear	Type	Semi-reversible, recirculating ball nut		
		Make	Saginaw Steering		
		Ratios	Gear	24:1	
		Overall	28.7:1		
	No. wheel turns (stop to stop)		5.5		
Power	Type (coaxial, linkage, etc.)		Integral gear with vane type pump		
	Make		Saginaw Steering		
	Gear	Type	Same as manual		
		Ratios *	Gear	16.1-12.4:1; Station Wagon and El Camino 17.5:1	
		Overall	18.7:1-12.4:1 Station Wagon and El Camino 20.3:1		
	Pump driven by		Crankshaft pulley		
	No. wheel turns (stop to stop)		2.9		
Linkage	Type		Parallelogram		
	Location (front or rear of wheels, other)		Front of wheels		
	Drag link (trans. or longit.)		None		
	Tie rods (one or two)		Two		
	Inclination of camber (deg.)		7-3/4 to 8-3/4		
Steering Axis	Bearings (type)	Upper	Ball stud with non metallic surfaces		
		Lower	Ball stud with non metallic surfaces		
		Thrust	None		
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		N1-1/2 to N1/2; pick-up N1 to 0		
	Camber (deg.)		0 to P1		
	Toe-in (outside track inches)		1/8 to 1/4		
Steering spindle & joint type			Forging with pad for mounting brake cylinder; spherical joints		
Wheel Spindle	Diameter	Inner bearing	1.2493-1.2498		
		Outer bearing	.7493-.7498		
	Thread size		3/4 - 20 NEF - 3 (modified)		
	Bearing type		Taper roller		

* No variable ratio for Station Wagons and El Camino.

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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 arms
Provision for acc. squat control	Geometry of rear suspension
Special provisions for car jacking	Position jack in bumper notch on lower face of front and rear bumper
Shock absorber front & rear	Direct double acting hydraulic
Type	
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	Coil
Type	Steel alloy
Material	
Size (coil design height & I.D.; bar length x dia.)	11.7 x 3.63; 133.40 x .595
Spring rate (lb. per in.)	250
Rate at wheel (lb. per in.)	92
Stabilizer	Link
Type (link, linkless, frameless)	
Material & bar diameter	HR steel .812

SUSPENSION – REAR

Type and description	Linked; salisbury axle fixed by control arms
Drive and torque taken through	Control arms
Spring	Coil
Type	Steel alloy
Material	
Size (length x width, coil design height & I.D.; bar length & dia.)	14.70 x 5.50; 103.8 x .522
Spring rate (lb. per in.)	100
Rate at wheel (lb. per in.)	85
Mounting insulation type	Natural rubber
If leaf	No. of leaves
Shackle (comp. or tens.)	---
Stabilizer	None
Type (link, linkless, frameless)	
Material	---
Track bar type	None

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MODEL

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	NA
	Backlight or tailgate	Optional - 2 seat wagon; standard - 3 seat wagon
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 Push-button AM-FM Stereo radio; AM-FM Push-button
Rear seat speaker		Optional
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Optional-Four Season and G.M. Chevrolet
Speed warning device		NA
Speed control device		Optional
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Std.; - opt. 131-132-133-13400 wagons and 133-13400 El Camino
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional exc. conv. (standard)
Mirror Maplight		Optional
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA
Finger tip washer-wiper control		Optional
Windshield antenna		Available with factory installed radio

LAMP HEIGHT AND SPACING

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

' if single headlamps are used enter here.

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WEIGHTS

	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
	Front	Rear	Total	Pass. In Front		Pass. In Rear		Fuel	Coolant
				Front	Rear	Front	Rear		
Models with base V8 engine									
<u>MALIBU</u>									
2-door sport coupe 13637	1864	1547	3411	46.6	53.4	20.0	80.0	122.4	32.9
4-door sport sedan 13639	1905	1608	3513	48.6	51.4	20.6	79.4	122.4	32.9
2-door convertible 13667	1856	1600	3456	46.6	53.4	20.0	80.0	122.4	32.9
4-door sedan 13669	1877	1557	3434	48.6	51.4	20.6	79.4	122.4	32.9
<u>NOMAD</u>									
4-door, 2-seat 13236	1767	2055	3822	48.6	51.4	20.6	79.4	113.2	32.9
<u>GREENBRIER</u>									
4-door, 2-seat 13436	1763	2089	3852	48.6	51.4	20.6	79.4	113.2	32.9
4-door, 3-seat 13446	1747	2151	3898	48.6	51.4	20.6	79.4	113.2	32.9
<u>CHEVELLE</u>									
2-door sport coupe 13437	1836	1526	3362	46.6	53.4	20.0	80.0	122.4	32.9
4-door sedan 13469	1866	1548	3414	48.6	51.4	20.6	79.4	122.4	32.9
<u>CONCOURS</u>									
4-door, 2-seat 13636	1785	2113	3898	48.6	51.4	20.6	79.4	113.2	32.9
4-door, 3-seat 13646	1767	2173	3940	48.6	51.4	20.6	79.4	113.2	32.9
<u>CONCOURS ESTATE</u>									
4-door, 2-seat 13836	1798	2127	3925	48.6	51.4	20.6	79.4	113.2	32.9
4-door, 3-seat 13846	1787	2197	3984	48.6	51.4	20.6	79.4	113.2	32.9
<u>EL CAMINO</u>									
2-door pick-up 13480	1860	1544	3404	49.3	50.7	---	---	122.4	32.9
	13680	1872	1553	3425	49.3	50.7	---	122.4	32.9
Accessories & Equipment Differential Weights				Remarks					
250 cu. in. 6 Cyl.			- 8	With Powerglide transmission					
250 cu. in. 6 Cyl.			+ 26	With Turbo Hydra-Matic transmission					
307 cu. in. V8			+ 18	With 4-speed transmission					
307 cu. in. V8			+ 8	With Powerglide transmission					
307 cu. in. V8			+ 28	With Turbo Hydra-Matic transmission					
350 cu. in. V8 (250 HP)			+ 37	With 3-speed transmission					
350 cu. in. V8 (250 HP)			+ 55	With 4-speed transmission					
350 cu. in. V8 (250 HP)			+ 39	With Powerglide transmission					
350 cu. in. V8 (250 HP)			+ 65	With Turbo Hydra-Matic transmission					
350 cu. in. V8 (300 HP)			+ 54	With 4-speed transmission					
350 cu. in. V8 (300 HP)			+ 45	With Powerglide transmission					
350 cu. in. V8 (300 HP)			+ 75	With Turbo Hydra-Matic transmission					
402 cu. in. V8 (330 HP)			+243	With 4-speed transmission					
402 cu. in. V8 (330 HP)			+285	With Turbo Hydra-Matic transmission					
402 cu. in. V8 (350 HP)*			+292	With 4-speed transmission					
402 cu. in. V8 (350 HP)*			+346	With Turbo Hydra-Matic transmission					
454 cu. in. V8 (360 HP)*			+348	With H. D. 4-speed transmission					
454 cu. in. V8 (360 HP)*			+402	With Turbo Hydra-Matic transmission					
* Available as "SS" equipment only - includes additional body and chassis equipment.									

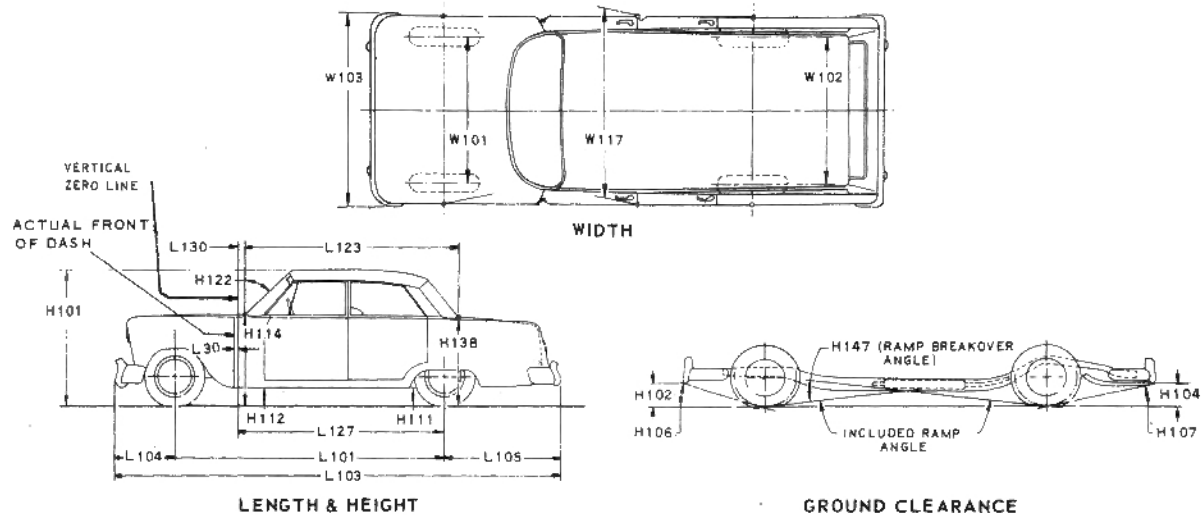
*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

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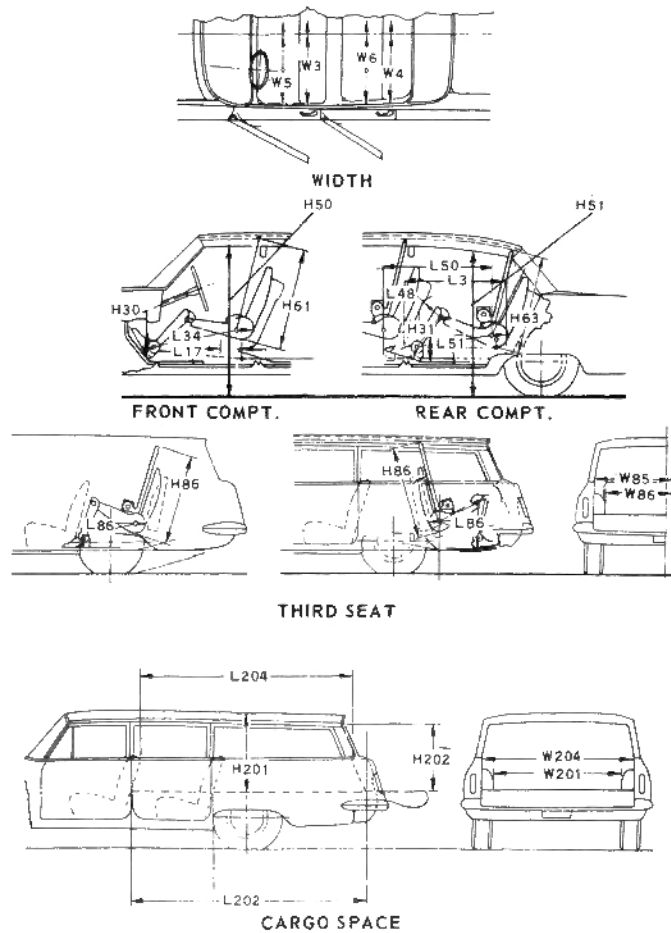
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



AMA Specifications—Passenger Car

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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