AMA Specifications—Passenger Car

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

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

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BODY – TYPES AND STYLE NAMES –

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

	L-6 Engine	V-8 Engine
300 DELUXE		
2-Door Coupe, 6-Passenger	13327	13427
2-Door Sport Coupe, 5-Passenger	13337	13437
4-Door Sedan, 6-Passenger	13369	13469
2-Door Sedan Pickup, 3-Passenger	13380	13480
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
2-Door Sedan Pickup, 3-Passenger	13580	13680
STATION WAGONS		
Nomad, 4-Door, 2-Seat	13135	13235
Nomad, 4-Door, 2-Seat	13136	13236
Greenbrier, 4-Door, 2-Seat	13335	13435
Greenbrier, 4-Door, 2-Seat	13336	13436
Greenbrier, 4-Door, 3-Seat	13346	13446
Concours, 4-Door, 2-Seat	13536	13636
Concours, 4-Door, 3-Seat	13546	13646
Concours Estate, 4-Door, 2-Seat	-----	13836
Concours Estate, 4-Door, 3-Seat	-----	13846

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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
WIDTH						
Track – Front	W101	59.0				
Track – Rear	W102	59.0				
Maximum overall car width	W103	76.0				
Body width at No. 2 pillar	W117	74.2				
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	200.9	196.9	200.9	196.9	207.9
Overhang – front	L104	37.5				
Overhang – rear	L105	47.4				54.4
Body upper structure length	L123					
Body "O" line to ℄ of rear wheel	L127	99.5	95.5	99.5	95.5	99.5
Body "O" line to w/s cowl point	L130					
HEIGHT						
Passenger Distribution (front & rear)		2-3				
Trunk/Cargo load (lbs.)						
Overall height	H101	53.5	52.8	53.5	52.7	54.3
Cowl height	H114	37.6	37.7	37.4	37.7	39.3
Deck height	H138					
Rocker panel – front: To ground	H112	8.1	8.1	7.8	8.1	9.7
Rocker panel – front: From front wheel ℄	H112					
Rocker panel – rear: To ground	H111	7.1	6.8	6.8	6.8	9.3
Rocker panel – rear: From rear wheel ℄	H111					
Windshield slope angle	H122	53.0				
GROUND CLEARANCE						
Bumper to ground – front	H102	18.5	19.1	18.2	19.1	21.1
Bumper to ground – rear	H104	15.1	14.0	14.4	14.0	18.8
Angle of approach	H106	23.5	24.3	23.4	24.3	25.6
Angle of departure	H107	15.2	14.4	14.6	14.4	14.2
Ramp breakover angle	H147	8.3	8.3	8.0	8.3	12.2
Min. running clearance (Specify)	H156	4.8	4.6	4.6	4.6	5.9

* - H151 - Frame 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
FRONT COMPARTMENT						
Effective head room	H61	38.1	37.9	38.1	38.3	38.5
Max. eff. leg room – accelerator	L34	42.7	42.5	42.8	42.8	42.5
H Point to Heel point	H30			8.1		
H Point travel	L17			4.8		4.7
Shoulder room	W 3	58.4	58.2	58.4	58.2	58.3
Hip room	W 5	59.7	59.8	59.5	59.7	59.8
Upper body opening to ground	H50	48.4	48.2	48.9	48.3	48.9
REAR COMPARTMENT						
H Point couple distance	L50	32.8	30.6	32.8	30.5	32.8
Effective head room	H63	37.1	36.3	37.1	36.9	38.3
Min. effective leg room	L51	35.1	32.5	34.9	32.3	35.2
H Point to Heel point	H31	10.6	10.2	10.7	10.1	10.8
Min. knee room	L48	2.3	0.6	2.3	0.6	2.3
Rear Compartment room	L 3	25.8	24.0	25.8	24.0	26.1
Shoulder room	W 4	57.2	56.8	57.2	57.7	57.4
Hip room	W 6	58.8	58.5	58.8	58.5	59.5
Upper body opening to ground	H51	48.0	----	48.6	----	48.7
LUGGAGE COMPARTMENT						
Usable luggage capacity	V 1	13.5	14.6	13.5	8.5	----
Liftover height	H195	26.3	25.7	26.0	25.7	----
Position of spare tire storage		Horizontal; right side of trunk				R. rear quarter
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					35.8
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.) $\frac{W4 \times L204 \times H201}{1728}$	V2					84.0(a)

(a) 10.0 cu. ft. additional for under floor compartment (exc. Nomad).

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO** (Std. first) (Indicate A C ratio) A B C D
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			
All Models except Station Wgns and Pickups	230 Standard	One; 1-Bbl Downdraft	8.5:1	140 @ 4400	220 @ 1600	3-Speed (2.85:1 low) & HD 3-Spd* (3.03:1 low)	Base	3.08 ---- 3.36 ----
							A/C	3.36 ---- 3.55 ----
						Pwrglide*	Base	3.08 2.73 3.36 ----
							A/C	3.36 3.08 3.55 ----
Station Wgns and Pickups						3-Speed (2.85:1 low) & HD 3-Spd (3.03:1 low)	Base	3.36 ---- 3.55 ----
							A/C	3.55 ---- ---- ----
						Pwrglide*	Base	3.36 3.08 3.55 ----
							A/C	3.55 3.36 ---- ----
All Models						Turbo Hydra-Matic*	Base	2.73 2.56 3.08 3.36
							A/C	3.08 2.73 3.36 ----
All Models except Station Wgns and Pickups	307 Standard	One; 2-Bbl Downdraft	9.00:1	200 @ 4600	300 @ 2400	3-Speed (2.85:1 low) & HD 3-Spd* (3.03:1 low)	Base	3.08 2.73 3.36 ----
							A/C	3.36 3.08 3.55 ----
						Pwrglide	Base	3.08 2.73 3.36 3.55
							A/C	3.36 3.08 3.55 ----
Station Wgns and Pickups						3-Speed (2.85:1 low) & HD 3-Spd* (3.03:1 low)	Base	3.36 3.08 3.55 ----
							A/C	3.55 3.36 ---- ----
						Pwrglide	Base	3.36 3.08 3.55 ----
							A/C	3.55 3.36 ---- ----
All Models						4-Speed* (2.85:1 low)	Base	3.36 3.08 3.55 ----
							A/C	3.36 3.08 3.55 ----
						Turbo Hydra-Matic*	Base	2.73 2.56 3.08 3.36
							A/C	3.08 2.73 3.36 ----

* -Optional
**-Positraction optional for all ratios

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

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MAKE OF CAR CHEVELLE MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO ** (Std. first) (Indicate A C ratio) A B C D
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			
All Models except Station Wgns and Pickups	250 Option (L22)	One; 1-Bbl Down-draft	8.5:1	155 @ 4200	235 @ 1600	3-Speed (2.85:1 low) & HD 3-Spd* (3.03:1 low)	Base	3.08 ---- 3.36 ----
							A/C	3.36 ---- 3.55 ----
						Pwrglide*	Base	3.08 2.73 3.36 ----
							A/C	3.36 3.08 3.55 ----
Station Wgns and Pickups						3-Speed (2.85:1 low) & HD 3-Spd* (3.03:1 low)	Base	3.36 ---- 3.55 ----
							A/C	3.55 ---- ---- ----
						Pwrglide*	Base	3.36 3.08 3.55 ----
							A/C	3.55 3.36 ---- ----
All Models						Turbo Hydra-Matic*	Base	2.73 2.56 3.08 3.36
							A/C	3.08 2.73 3.36 ----
All Models	350 Option (LM1)	One; 4-Bbl Down-draft	9.00:1	255 @ 4200	365 @ 1600	HD 3-Spd (2.42:1 low) & 4-Speed (2.52:1 low)	Base	3.31 3.07 3.55 ----
							A/C	3.31 3.07 3.55 ----
						Pwrglide*	Base	2.73 2.56 3.08 3.36
							A/C	2.73 2.56 3.08 3.36
All Models except Station Wgns and Pickups						Turbo Hydra-Matic*	Base	2.56 ---- ---- 3.08 3.36
							A/C	2.56 ---- ---- 3.08 3.36
Station Wgns and Pickups						Turbo Hydra-Matic*	Base	2.73 ---- 3.08 3.36
							A/C	2.73 ---- 3.08 3.36
Same Model Application As Above	350 Option (L48)	One; 4-Bbl Down-draft	10.25:1	300 @ 4800	380 @ 3200	Same Transmission-Axle Application As Above		

* -Optional
**-Positraction optional for all ratios

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

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MAKE OF CAR CHEVELLE MODEL YEAR 1969 DATE ISSUED 10-15-68 REVISED (e)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION		AXLE RATIO** (Std. first) (Indicate A/C ratio) A B C D
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP RPM	Torque RPM			
13637 13667 13680 Only	396 Option (L35)	One; 4-Bbl Down-draft	10.25:1	325 @ 4800	410 @ 3200	HD 3-Spd* (2.42:1 low)	Base	3.31 3.07 3.55 3.73 4.10
							A/C	3.31 3.07 3.55 3.73
						4-Speed* (2.52:1 low)	Base	3.55 3.31 3.73 3.07 4.10
							A/C	3.55 3.31 3.73 3.07
						Turbo* Hydra-Matic	Base	3.31 3.07 3.73 2.73
							A/C	3.31 3.07 ---- 2.73
13637 13667 13680 Only	396 Option (L34)	One; 4-Bbl Down-draft	10.25:1	350 @ 5200	415 @ 3400	HD 3-Spd* (2.42:1 low) & 4-Speed* (2.52:1 low)	Base	3.55 3.31 3.73 4.10
							A/C	3.55 3.31 3.73 ----
						4-Speed* (2.20:1 low)	Base	3.55 3.31 3.73 3.07 4.10
							A/C	3.55 3.31 3.73 3.07
						Turbo Hydra-Matic	Base	3.55 3.31 3.73 3.07 4.10
							A/C	3.55 3.31 3.73 3.07

* -Optional

**-Positraction required for 3.73, 4.10 ratio; optional for all others

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

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ENGINE – GENERAL

MODEL		L6 230 Cu In 140 HP - Std	L6 250 Cu In 155 HP - Opt L22	V8 307 Cu In 200 HP - Std
Type, no. cyls., valve arr.		In-line 6 OHV		90° V8 OHV
Bore and stroke (nominal)		3.875 x 3.25	3.875 x 3.53	3.875 x 3.25
Piston displacement, cu. in.		230	250	307
Bore spacing (℄ to ℄)		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 alloy iron		
Cylinder Block Material		Cast alloy iron		
Cyl. Sleeve-Wet, dry, none		None		
Number of mtg. points	Front	Two		
	Rear	One		
Engine installation angle		4°37'		4°46'
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		36.0		48.0
Publishing max. bhp* @ eng. RPM		140 @ 4400	155 @ 4200	200 @ 4600
Publishing max. torque * (lb. ft. @ RPM)		220 @ 1600	235 @ 1600	300 @ 2400
Recommended fuel regular – premium		Regular		

ENGINE – PISTONS

Material		Cast aluminum alloy		
Description and finish		Flat, notched head, slipper skirt		
Weight (piston only) oz.		20.32	24.16	26.32
Clearance (limits)	Top land	.0345-.0435		.0235-.0325
	Skirt Top	.0005-.0011(a)		.0005-.0011(b)
	Skirt Bottom			
Ring groove depth	No. 1 ring	.2153-.2218		.2113-.2178
	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

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MODEL	V8 350 Cu In		V8 396 Cu In	
	255 HP-Opt LM1	300 HP-Opt L48	325 HP-Opt L35	350 HP-Opt L34

ENGINE – GENERAL

Type, no. cyls., valve arr.	90° V8 OHV				
Bore and stroke (nominal)	4.00 x 3.48		4.094 x 3.76		
Piston displacement, cu. in.	350		396		
Bore spacing (℄ to ℄)	4.4		4.84		
No. system (front to rear) L. Bank	1-3-5-7				
No. system (front to rear) R. Bank	2-4-6-8				
Firing order	1-8-4-3-6-5-7-2				
Compres. ratio (nominal)	9.00:1	10.25:1	10.25:1		
Cylinder Head Material	Cast alloy iron				
Cylinder Block Material	Cast alloy iron				
Cyl. Sleeve-Wet,dry,none	None				
Number of mtg. points Front	Two				
Number of mtg. points Rear	One				
Engine installation angle	4°46'				
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$	51.2		53.6		
Publishing max. bhp* @ eng. RPM	255 @ 4800	300 @ 4800	325 @ 4800	350 @ 5200	
Publishing max. torque * (lb. ft. @ RPM)	365 @ 3200	380 @ 3200	410 @ 3200	415 @ 3400	
Recommended fuel regular – premium	Regular	Premium			

ENGINE – PISTONS

Material	Cast aluminum alloy			
Description and finish	Flat, notched head, slipper skirt		Domed head, slipper skirt	
Weight (piston only) oz.	20.91		24.80	
Clearance (limits) Top land	.0235-.0325		.0304-.0374	
Clearance (limits) Skirt Top	.0007-.0013(a)		.0011-.0018(b)	
Clearance (limits) Skirt Bottom				
Ring groove depth No. 1 ring	.2218-.2288		.2253-.2317	
Ring groove depth No. 2 ring	.2218-.2288		.2253-.2317	
Ring groove depth No. 3 ring	.2038-.2103		.2098-.2162	
Ring groove depth No. 4 ring	None			

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

(a)-Measured 1.56 from top of piston
(b)-Measured 1.955 from top of piston

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MODEL			L6 230 Cu In 140 HP	L6 250 Cu In 155 HP	V8 307 Cu In 200 HP	V8 350 Cu In 255&300 HP	V8 396 Cu In 325&350 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 - material, coating, etc.	Upper	(a)	Cast alloy iron; barrel face (b)			
		Lower	Cast alloy iron; inside bevel; tapered face (c)				
	Width		(d)	(e)	(d)	(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				
	Bushing	In rod or piston	None				
		Material					
Clearance	In piston		.00015-.00025			.00025-.00035	
	In rod						
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) steel backed material			Premium aluminum	
	Overall length		.807				.857
	Clearance (limits)		.0007-.0027				.0009-.0029
	End play		.009-.013				.017-.021

(a)-Cast alloy iron; inside bevel and tapered face; chrome plated
(b)-Chrome plated on L6 250, V8 350 Cu In, Molybdenum inlay on V8 396 Cu In
(c)-Wear resistant coating on L6 230 & 250, V8 307 & 350; chrome plated on V8 396
(d)-Upper .0775-.0780; lower .0770-.0780
(e)-Upper .0628-.0633; lower .0623-.0633
(f)-Upper .0775-.0780; lower .0770-.0775
(g)-Upper & lower .0770-.0775
(h)-Upper .010-.020; lower .013-.025

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MODEL			L6 230 Cu In 140 HP	L6 250 Cu In 155 HP	V8 307 Cu In 200 HP	V8 350 Cu In 255&300 HP	V8 396 Cu In 325&350 HP
ENGINE – CRANKSHAFT							
Material			Cast nodular iron (forged steel with 396 cu in 350 hp)				
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 with backed insert (selected bearing material - copper lead alloy or premium aluminum - for intended operation or application)				
	Clearance		.0003-.0029		(a)		(b)
	Journal dia. and bearing overall length	No. 1	2.3004 x .752		2.4502 x .752		2.7507x.992
		No. 2	2.3004 x .752		2.4505 x .752		2.7507x.992
		No. 3	2.3004 x .752		2.4505 x .752		2.7505x.992
		No. 4	2.3004 x .752		2.4505 x .752		2.7505x.992
		No. 5	2.3004 x .752		2.4507 x 1.177		2.7506x1.2525
		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			Above and to right of crankshaft		In block above crankshaft		
Material			Cast alloy iron				
Bearings	Material		Steel backed babbitt				
	Number		4		5		
Type of Drive	Gear or chain		Gear		Chain		
	Crankshaft gear or sprocket material		Steel		Steel sprocket		
	Camshaft gear or sprocket material		(c)		Nylon teeth with aluminum hub		
	Timing chain	No. of links	None		46		50
		Width	None		.740		.740
		Pitch	None		.550		.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 -.0008-.0024
No. 5 - .0015-.0031

(b)-No. 1 & 2 - .0010-.0020
No. 3 & 4 - .0013-.0025
No. 5 - .0015-.0031

(c)-Bakelite and fabric composition with steel hub

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ENGINE – VALVE SYSTEM (cont.)

MODEL			230 Cu In 140 HP	250 Cu In 155 HP	307 Cu In 200 HP	350 Cu In 255&300 HP	396 Cu In 325 HP	396 Cu In 350 HP
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°	350°
	Valve opening overlap		33°30'		58°		59°	118°
Intake	Material		Alloy steel; face aluminized on 230, 250 & 396 Cu.In.					
	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)		.3317	.3880	.3900		.3983	.4614
	Outer spring press. & length	Valve closed (lb.@in.)	56-64 @ 1.66		76-84 @ 1.70		94-106 @ 1.88	
		Valve open (lb.@in.)	180-192 @ 1.27		194-206 @ 1.25		303-327 @ 1.38	
	Inner spring press. & length	Valve closed (lb.@in.)	None		Spring Damper			
		Valve open (lb.@in.)	None		Spring Damper			
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				.3715-.3722	
	Stem to guide clearance		.0010-.0027					
	Lift (@ zero lash)		.3317	.3880	.4100		.3983	.4800
	Outer spring press. & length	Valve closed (lb.@in.)	56-64 @ 1.66		76-84 @ 1.70		94-106 @ 1.88	
		Valve open (lb.@in.)	180-192 @ 1.27		194-206 @ 1.25		303-327 @ 1.38	
	Inner spring press. & length	Valve closed (lb.@in.)	None		Spring Damper			
		Valve open (lb.@in.)	None		Spring Damper			

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

(a) Head also aluminized on 396 engines

(Continued)

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MODEL	230 Cu In 140 HP	250 Cu. In. 155 HP	307 Cu In 200 HP	350 Cu In 255 & 300HP	396 Cu In 325 HP**

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear				
Normal oil pressure (lb. engine rpm)	50-65 PSI @ 2000 (a)				50-75PSI@ 2000 (a)
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)	32° and above - SAE 20W or SAE 10W-30 0° F to 32° F* - SAE 10W or SAE 10W-30 Below 0° F - SAE 5W or SAE 5W-20 *(SAE 5W-30 can be used at temperatures below freezing)				
Engine Service Reqmt. (MM, MS, etc.)	MS or DG				

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Single with crossover		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)	One; reverse flow			Two; reverse flow
Exhaust pipe dia. (O.D., wall thick.) Branch	None	2.00x.073-.091 (b)		None
Exhaust pipe dia. (O.D., wall thick.) Main	2.00 x .057-.071	2.00x.073-.091 (b)(c)		2.50 x .073-.091
Tail pipe dia. (O.D. & wall thickness)	1.88 x .062 - .075			2.00 x .062-.075

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system	
	Optional	None	
Control Unit	Make and model	AC Spark Plug	
	Location	Top rr. rocker cvr.	Left front rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
	Control method (variable orifice, fixed orifice, other)	Variable orifice	
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner	
	Flame arrestor (screen, check valve, other)	Screen	

(a) Bench test - no flow conditions

(b) Laminated

(c) 2.50 diameter on 350 Cu. In.

**396 Cu. In. 350 HP - Dual, chambered exhaust

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MODEL	L6-230 140 HP	L6-250 155 HP	307CuIn 200 HP	350CuIn 255 HP	350CuIn 300 HP	396 CuIn 325 HP	396 CuIn 350 HP
ENGINE – EXHAUST EMISSION CONTROL	**MANUAL TRANSMISSIONS**						
Type (Air injection, engine modifications, other)	Air injection reactor equipment						
Air Injection Pump – Type	Semi-articulated vane type						
Air Injection Pump – Displacement	19.3						
Air Injection Pump – Drive ratio	1.15:1						
Air Injection Pump – Drive type	Crankshaft pulley						
Air Injection Pump – Relief valve (type)	Diverter valve - separate from pump						
Air Injection Pump – Filter (describe)	Centrifugal air cleaner						
Air Injection System – Air distribution (head, manifold, etc.)	Cylinder head		Manifold				
Air Injection System – Point of entry	Exhaust ports						
Air Injection System – Injection tube I.D.	.2565						
Air Injection System – Check valve type	Pressure (plate type)						
Air Injection System – Backfire protection (type)	Diverter valve						
Carburetor – Make							
Carburetor – Model	REFER TO						
Carburetor – Barrel size							
Carburetor – Idle speed – Drive	PAGE TEN						
Carburetor – Idle speed – Neutral							
Carburetor – Idle A/F mixture	Not Specified						
Distributor – Aux. Adv. Systems (type)	None						
Distributor – Make	Delco-Remy						
Distributor – Model	1110459	1110463	1111481	1111956	1111488	1111497	1111498
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Start (rpm)	1000	900	1000	1100	950	900	
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Intermed. points deg. @ rpm							
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Max. deg. @ rpm	36@4600	32@4200	28@4300	32@4400	30@4700	32@5000	36@5000
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Start (in Hg)	7.00		6.00	7.00	8.00	8.00	
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Intermed. points deg. @ in. Hg							
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Max. deg. @ in.	23 @ 16		15 @ 12	24 @ 17.5	20 @ 17	15 @ 15.5	
Distributor – Vacuum Source	Carburetor						
Timing - Crank degrees @ rpm	TDC@700		2BTC@700	TDC@700		4BTC@800	TDC@800
Cooling System							
Exhaust System							

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MODEL	L6-230 140 HP	L6-250 155 HP	307 CuIn 200 HP	350 CuIn 255 HP	350 CuIn 300 HP	396 CuIn 325 HP	396 CuIn 350 HP
ENGINE – EXHAUST EMISSION CONTROL	AUTOMATIC TRANSMISSIONS						
Type (Air injection, engine modifications, other)	Engine modifications						
Air Injection Pump – Type							
Air Injection Pump – Displacement	NOT						
Air Injection Pump – Drive ratio							
Air Injection Pump – Drive type	USED						
Air Injection Pump – Relief valve (type)							
Air Injection Pump – Filter (describe)							
Air Injection System – Air distribution (head, manifold, etc.)	NOT						
Air Injection System – Point of entry							
Air Injection System – Injection tube I.D.	USED						
Air Injection System – Check valve type							
Air Injection System – Backfire protection (type)							
Carburetor – Make	REFER						
Carburetor – Model							
Carburetor – Barrel size	TO						
Carburetor – Idle speed – Drive							
Carburetor – Idle speed – Neutral	PAGE TEN						
Carburetor – Idle A/F mixture	Not Specified						
Distributor – Aux. Adv. Systems (type)	None						
Distributor – Make	Delco-Remy						
Distributor – Model	1110460	1110464	1111481	1111955	1111489	1111497	1111499
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Start (rpm)	1000	900	1000	1130	900	900	900
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Intermed. points deg. @ rpm							
Distributor – Cent'fgal adv. in crank degrees @ eng. rpm – Max. deg. @ rpm	32@4600	28@4200	28@4300	28@4300	26@4700	32@5000	32@5000
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Start (in Hg)	7.00		6.00	7.00	8.00	8.00	6.00
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Intermed. points deg. @ in. Hg							
Distributor – Vacuum adv. in crank degrees @ eng. rpm – Max. deg. @ in.	23 @ 16		15 @ 12	24@17.5	20 @ 17	15@15.5	15 @ 12
Distributor – Vacuum Source	Carburetor						
Timing - Crank degrees @ rpm	4BTC@550		2BTC@600	4BTC@600		4BTC@800	4BTC@600
Cooling System							
Exhaust System							

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MODEL	L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 & 300 HP	V8-396 325 & 350 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 22		
	Filler location		Behind hinged rear license plate*		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations		Lower right front of engine		
	Pressure range		4.00-5.00 PSI	5.50-7.50 PSI	7.50-9.00 PSI
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank		
	Locations		and plastic filter in carburetor inlet **		
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type	Standard	Oil-wetted paper element		
		Optional	None		
	Idle speed (spec. neutral or drive)	Manual (N)	700		800
		Automatic (D)	550	600	
		Idle A-F mix.	Not specified		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
13100 13300 13500	230	Manual	Rochester	7029017(a)	One; single barrel	1.69
		Automatic		7029014		
	250	Manual	Rochester	7029017(a)		
		Automatic		7029014		
	307	Manual	Rochester	7029101(b)	One; two barrel	1.44
		Automatic		7029110(c)		
13200 13400 13600 13800	350 255hp	Manual	Rochester	7029203	One; four barrel	1.38 Prim 2.25 Sec
		Automatic		7029202		
	350 300hp	Manual	Rochester	7029203		
		Automatic		7029202		
	396 325hp	Manual	Rochester	7029215		
		Automatic		7029204		
	396 350hp	Manual	Rochester	7029215		
		Automatic		7029204		

a - 7029015 with Air Conditioning
b - 7029103 with Air Conditioning
c - 7029112 with Air Conditioning
* - Shut off pressure - 1800 RPM at pump outlet
** - Additional in-line paper element with 396 Cu. In.

* Left rear quarter panel on station wagons

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ENGINE – COOLING SYSTEM

MODEL			230 CuIn 140 HP	250CuIn 155 HP	307CuIn 200 HP	350 CuIn 255 & 300 HP	396 CuIn 325 & 350 HP
Type system (pressure, pressure vented, atmospheric, other)			Pressure				
Radiator cap relief valve pressure			15 ± 1 PSI				
Circulation thermostat	Type-(choke, bypass)		Choke				
	Starts to open at (°F)		192° - 198°				
Water pump	Type (centrifugal, other)		Centrifugal				
	GPM @ 1000 pump rpm		60 @ 4400		54 @ 4400		57 @ 4400
	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.)		13		17	16	23
	Without heater (qt.)		11		16	15	22
	Opt. equipment-specify (qt.)		13		18	17	24
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				
	Ratio-fan to crankshaft rev.		.949:1				
	Fan cutout type		None				
	Bearing type		Double row ball				
*Drive belts (indicate belt used by letter)	Fan		A		D E		H I
	Generator or alternator		A		D E		H I
	Water Pump		A		D E		H I
	Power Steering		B		F		J
	Air Conditioning		C		G		K
	Air Injection		B		D & H - Manual transmissions E & J - Automatic transmissions		

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	←					38°-42°					→
Nominal length (SAE)	39.00	50.00	54.00	47.50	44.25	36.00	54.33	49.50	45.75	41.00	57.00
Width	←					.380					→

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MODEL			230 Cu In 140 HP	250 Cu In 155 HP	307 Cu In 200 HP	350 Cu In 255&300 HP	396 Cu In 325&350 HP
ELECTRICAL – SUPPLY SYSTEM							
Battery	Make and Model		Delco-Remy 1980032			1980030	
	Voltage Rtg. & Total Plates		12 volts - 54 plates			12 volts - 66 plates	
	SAE Designation & Amp. Hr. Rtg.		45 amp hr @ 20 hr rate			61 amp hr @ 20 hr rate	
	Location		Right side front of engine compartment				
	Terminal grounded		Negative				
Generator or Alternator	Make		Delco-Remy				
	Model		1100836(a)			1100834	
	Type and rating		Diode rectified 37 amps				
	Output at engine idle (neutral)		13 amps				15 amps
	Ratio–Gen. to Cr/s rev.		2.46:1				
Regulator	Make		Delco-Remy				
	Model		1119515				
	Type		Vibrator				
	Cutout relay	Closing voltage generator rpm	None				
		Reverse current to open	None				
	Regulated	Voltage	13.8-14.8 @ 85°F				
		Current	----				
	Voltage test conditions	Temperature	Operating				
		Load	3-8 amperes				
		Other	None				
ELECTRICAL – STARTING SYSTEM							
Starting Motor	Make		Delco-Remy				
	Model		1108365	1108367	1108361	1108418	
	Rotation (drive end view)		Clockwise				
Motor control	Switch (solenoid, manual)		Solenoid				
	Starting procedure		3- & 4-Spd - Place gearshift lever in neutral & depress clutch AUTOMATIC - Place control lever in N or P position INITIAL START - Press accelerator to floor & 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 – Manual	153				168
		Flywheel – Auto.	153				168
	Flywheel tooth face width	Manual	.4010-.4130				.4100-.4220
		Auto.	.4010-.4130				.4100-.4220

(a)-1100834 used when automatic transmission is specified

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MODEL			L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255&300 HP	V8-396 325&350 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		1115208		1115293		
	Amps	Engine stopped	4.0				
		Engine idling	1.8				
Distributor	Make						
	Model		REFER				
	Cent'fgal adv. in c.'shaft degrees@ engine rpm (nominal)	Start (rpm)					
		Intermediate points deg.@rpm	TO				
		Max. deg.@rpm					
	Vacuum adv. in c.'shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	PAGE				
		Intermediate points, deg.@in. Hg.	NINE				
		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		ACR46N		ACR45S	ACR44S	ACR43N(a)
	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

(a) ACR44N with 396 Cu.In. 325 HP

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ELECTRICAL – INSTRUMENTS AND EQUIPMENT

MODEL		L6-230 140 HP	L6-250 155 HP	V8-307 200 HP	V8-350 255 HP	V8-350 300 HP	V8-396 325&350 HP
Speedometer	Type	Dial					
	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					
Horn	Type	Vibrator					
	Number used	Two					
	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*		2100-2300	2450-2750	2600-2800
No. of clutch driven discs		One					
Clutch facing	Material	Woven type asbestos					
	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					

* - 2100-2300 with 4-Speed transmission

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MODEL	L6-230 L6-250 V8-307	V8-307	V8-350 V8-396	V8-396 350 HP

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.

Number of forward speeds		3-Spd 3	HD 3-Spd 3	4-Spd 4	HD 3-Spd 3	4-Spd 4	4-Spd 4
Transmission ratios	In first	2.85	3.03	2.85	2.42	2.52	2.20
	In second	1.68	1.75	2.02	1.58	1.88	1.64
	In third	1.00	1.00	1.35	1.00	1.46	1.27
	In fourth	----	----	1.00	----	1.00	1.00
	In reverse	2.95	3.02	2.85	2.41	2.59	2.26
Synchronous meshing, specify gears		All forward speeds					
Shift lever location		Steering column 3-speed Floor mounted HD 3-speed and 4-speed					
Lubricant	Capacity (pt.)	3	3.5	3	3.5	3	
	Type recommended	Meeting Military Specs MIL-L-2105B					
	SAE viscosity number – Summer	SAE 80					
	SAE viscosity number – Winter	SAE 80					
	SAE viscosity number – Extreme cold	SAE 80					

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

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

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MODEL	POWERGLIDE		TURBO HYDRA-MATIC	
	L6-230&250 V8-307	V8-350	L6-230&250 V8-307&350	V8-396

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 and 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-2.00 N-Neutral D-2.48-1.48-1.00 L_2-2.48-1.48 L_1-2.48
Max. upshift speed—drive range					
Max. kickdown speed—drive range					
Torque convertor	Number of elements	3			
	Max. ratio at stall	2.10		2.10	2.10
	Type of cooling (air, liquid)	Water			
	Nominal diameter	11.75		11.75	12.20
Lubricant	Capacity—refill (pt.)	6	6.5	5	8
	Type recommended	A suffix A			
Special transmission features					

DRIVE UNITS – PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight tube
Outer diam. x length* x wall thickness	Manual 3-speed trans.	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)

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MODEL

DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		----
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.1750-1.752
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, overhang hypoid pinion and ring gear
Limited Slip differential, type			Dual disc clutches
Drive Pinion Offset			1.50
No. of differential pinions			Two
Pinion adjustment (shim, other)			None
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Single row cylindrical
Lubricant	Capacity (pt.)		3.5 (8.125 ring gear); 4 (8.875 ring gear)
	Type recommended		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	2.73	3.08	3.36	3.55	3.07	3.31	3.55	3.73	4.10
No. of teeth	Pinion	16	15	12	11	11	14	13	11	11	10
	Ring gear	41	41	37	37	39	43	43	39	41	41
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 5J
		Opt.	14 x 6JK
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, ply rating, & ply		7.35 x 14 x 2 (4 ply rating) except station wagons 7.75 x 14 x 2 (4 ply rating) station wagons	
	-Type (bias, radial, etc.)		Bias	
	Full rated Inflation Press.	Front	7.35 x 14 26 lbs.	7.75 x 14 22 lbs.
		Rear	7.35 x 14 28 lbs.	7.75 x 14 32 lbs.
	Rev./Mile at 50 MPH		791 (7.35 x 14); 769 (7.75 x 14)	
Optional	Size, ply rating, & ply		7.75 x 14 x 2 (4 ply rating) 7.75 x 14 x 4 (8 ply rating) 8.25 x 14 x 2 (4 ply rating) F70 x 14 x 2 (4 ply rating) G70 x 14 x 2 (4 ply rating)	

BRAKES – PARKING

Type of control		Foot pedal apply; handle release
Location of control		Below 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)	----

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MODEL

BRAKES – SERVICE				STANDARD	DISC-OPTIONAL
Type (drum) or (disc & no. of pistons)				Drum (front finned)	Disc - front
Self adjusting (std., opt., N.A.)				Standard	
Special Valving	Type (proportion, delay, metering, other)			Metering	
Power brake make & type (remote, int., etc.)		Std.		----	(a)
		Opt.		(a)	----
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					
Drum	Diameter (nominal)	Front		9.5	----
		Rear		9.5	
	Type and material			Composite; cast iron Rim; steel web	Cast iron
Rotor	Outer working diameter			----	11.00
	Inner working diameter			----	7.18
	Working width			----	1.00
	Material & type (vented/solid)			----	Vented
Wheel cylinder bore	Front			1.125	2.063
	Rear			.875	.875
Master Cylinder	Bore			1.00	1.00
	displacement distribution	Front	%	42 cu in @ 1500 PSI	46 cu in @ 1500 PSI
		Rear	%	28 cu in @ 1500 PSI	32 cu in @ 1500 PSI
Pedal arc ratio				6.32	3.53
Line pressure at 100 lb. pedal load				805	
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 outboard	9.01 x 2.5 x .17	5.96 x 2.21 x .41
			Second. or inboard	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 outboard	9.01 x 2.0 x .17	9.01 x 2.0 x .17
			Second. or inboard	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) Bendix; 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		Tilt: Tilt achieved with universally-jointed steering shaft at base of steering wheel; 5 inch vertical travel range
		(std., opt., NA)		Optional
Wheel diameter		Manual		16.25 x 15.50
		Power		Same as manual
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Manual	Gear	Type		Semi-reversible, recirculating ball nut
		Make		Saginaw Steering
		Ratios	Gear	24:1
			Overall	28:1
	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	17.5:1
			Overall	20.4:1
	Pump driven by			Crankshaft pulley
	No. wheel turns (stop to stop)			4.0
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
Steering Axis	Inclination at camber (deg.)			7-3/4 to 8-3/4
	Bearings (type)	Upper		Ball stud with non-metallic bearing surfaces
		Lower		Ball stud with non-metallic bearing surfaces
		Thrust		None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			N1-1/2 to N1/2; Pickup 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
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

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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		
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 type with coil spring and concentric shock absorber and spherically jointed steering knuckle for each wheel.
Spring	Type	Coil
	Material	Steel alloy
	Size (coil design height & I.D. bar length x dia.)	11.7 x 3.63; 133.95 x .583
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	
Stabilizer	Type (link, linkless, frameless)	Link
	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	Type		Coil
	Material		Steel alloy
	Size (length x width, coil design height & I.D.; bar length & dia.)		9.0 x 5.50; 103.8 x .522
	Spring rate (lb. per in.)		100
	Rate at wheel (lb. per in.)		
	Mounting insulation type		Natural rubber
	If leaf	No. of leaves	----
		Shackle (comp. or tens.)	----
Stabilizer	Type (link, linkless, frameless)		None
	Material		----
Track bar type			None

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MODEL

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	All welded perimeter frame with front crossmember; rear suspension crossmember and rear crossmember

BODY – MISCELLANEOUS INFORMATION

		2-Door Coupe	4-Door Sedan	Sport Coupe	Sport Sedan	Convert-ible	Station Wagon
Drs. hinged (front, rr.)	Front doors	Front					
	Rear doors	Front					
Type of finish (lacquer, enamel, other)		Acrylic Lacquer					
Hood counterbalanced (yes, no)		Yes					
Hood release control (internal, external)		External					
Vehicle Indent. No. location		Top left hand of instrument panel pad					
Engine No., location		6-cyl on crankcase RH side of engine, rear of distributor 8-cyl on top front of RH bank of cylinder and case					
Theft protection - type		Lock, mounted on steering column; locks steering wheel, transmission shift levers and ignition					
Vent window control method (crank, friction pivot)	Front	Friction pivot					
	Rear	None					
Seat cushion type	Front	Formed wire and foam pad					
	Rear	Formed wire and cotton					
	3rd seat	None					
Seat back type	Front	Formed wire and foam pad					
	Rear	Formed wire and cotton					
	3rd seat	None					
Windshield glass type (i.e., single curved - laminated plate)		Curved-laminated plate					
Side glass type (i.e., curved - tempered plate)		Curved-tempered plate					
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Tempered plate					
		Curved				Flat	
Windshield glass exposed surface area		1208.7	1249.6	1208.7	1249.6	1211.8	1249.6
Side glass exposed surface area		1116.8	1197.0	1227.1	1303.6	1186.6	2419.9
Backlight glass exposed surface area		1059.4	1032.2	1059.4	1032.2	539.7	757.0
Total glass exposed surface area		3384.9	3478.8	3495.2	3585.4	2938.1	4426.5

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MODEL	13100-300-500 13200-400-600-800

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	NA models 131-132-133-13400 -- Optional all other models
	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)		AM-FM Stereo ratio Optional AM Push-button, 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		Optional
Speed control device		Optional
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Optional 131-132-133-13400-- Standard all other models
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional exc. conv. (Standard)
Map lamp		Optional
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA

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 *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

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WEIGHTS

300 Deluxe	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model 2-Door Coupe	1680	1460	3140					122.4	26.1
4-Door Sedan	1715	1490	3205					122.4	26.1
2-Door Sport Coupe	1700	1480	3180					122.4	26.1
Malibu									
4-Door Sedan	1730	1505	3235					122.4	26.1
2-Door Sport Coupe	1715	1485	3200					122.4	26.1
4-Door Sport Sedan	1745	1565	3310					122.4	26.1
Convertible	1725	1555	3280					122.4	26.1
Nomad									
4-Door, 2-Seat (13135)	1605	1890	3495					122.4	26.1
4-Door, 2-Seat (13136)	1540	2040	3580						
Greenbrier									
4-Door, 2-Seat (13335)	1600	1950	3550					122.4	26.1
4-Door, 3-Seat (13346)	1605	2115	3720					122.4	26.1
4-Door, 2-Seat (13336)	1565	2070	3635						
Concours									
4-Door, 2-Seat (13536)	1610	2040	3650					122.4	26.1
4-Door, 3-Seat (13546)	1610	2120	3730					122.4	26.1
El C mino									
2-Door Pick-Up - Std.	1675	1515	3190					122.4	26.1
- Dlx.	1690	1530	3220					122.4	26.1

Accessories & Equipment Differential Weights				Remarks
Power Windows	+ 11	+ 12	+ 23	
Electric Folding Top	+ 1	+ 8	+ 9	
Air Conditioning	+ 86	+ 7	+ 93	
Power Brakes	+ 10	+ 2	+ 12	
Power Disc Brakes	+ 31	+ 8	+ 39	
250 Cu. In. 6 Cyl. Engine	+ 17	0	+ 17	
396 Cu. In. V8 Engine	+197	+ 56	+253	325 HP
350 Cu. In. V8 Engine	+ 33	+ 18	+ 51	300 HP
350 Cu. In. V8 Engine	+ 33	+ 18	+ 51	255 HP
4-Speed Transmission	+ 5	+ 2	+ 7	
Powerglide Trans.-6 Cyl.	- 17	+ 2	- 15	
-V8	- 10	+ 2	- 8	
Turbo Hydra-Matic Trans	+ 18	+ 6	+ 24	Chevrolet built
Turbo Hydra-Matic Trans	+ 34	+ 13	+ 47	
H.D. 3-Spd. Man. Trans.	+ 16	+ 3	+ 19	
Power Steering	+ 29	0	+ 29	
Tape Player	+ 13	+ 4	+ 17	
Push Button Radio	+ 6	+ 3	+ 9	
Radio Stereo	+ 10	+ 3	+ 13	
Luggage Carrier	+ 2	+ 14	+ 16	
Special Sport Sedan	+ 4	+ 5	+ 9	

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

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WEIGHTS

307 V8 ENGINE 300 DELUXE	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
	Fron.	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model 2-Door Coupe	1780	1485	3265					122.4	32.9
4-Door Sedan	1820	1515	3335					122.4	32.9
2-Door Sport Coupe	1805	1505	3310					122.4	32.9
MALIBU									
4-Door Sedan	1840	1530	3370					122.4	32.9
2-Door Sport Coupe	1820	1515	3335					122.4	32.9
4-Door Sport Sedan	1850	1595	3445					122.4	32.9
Convertible	1830	1575	3405					122.4	32.9
STATION WAGONS									
Nomad									
4-Door, 2-Seat (13235)	1700	1920	3620					122.4	32.9
(13236)	1670	2035	3705					122.4	32.9
Greenbrier									
4-Door, 2-Seat (13435)	1735	1955	3690					122.4	32.9
4-Door, 3-Seat (13446)	1700	2145	3845					122.4	32.9
4-Door, 2-Seat (13436)	1705	2070	3775					122.4	32.9
Concours									
4-Door, 2-Seat (13636)	1710	2080	3790					122.4	32.9
4-Door, 3-Seat (13646)	1705	2155	3860					122.4	32.9
Concours Estate									
4-Door, 2-Seat (13836)	1705	2075	3780					122.4	32.9
4-Door, 3-Seat (13846)	1695	2140	3835					122.4	32.9
El Camino									
2-Door Pick-Up - Std.	1780	1540	3320					122.4	32.9
- Dlx.	1795	1555	3350					122.4	32.9

Accessories & Equipment Differential Weights				Remarks

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

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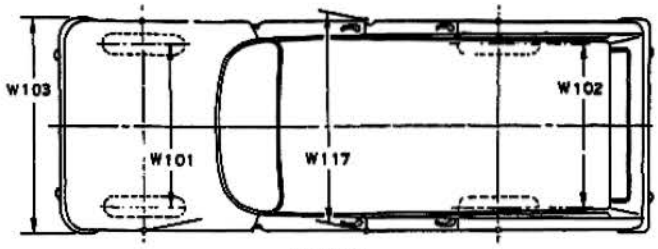
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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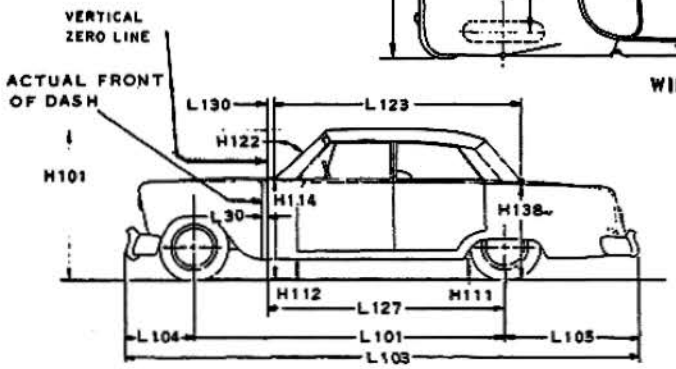

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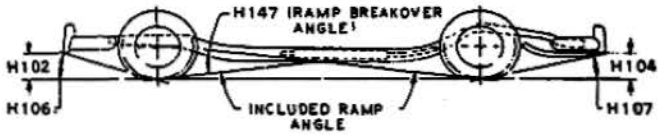
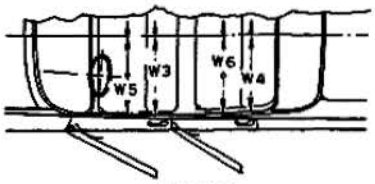


GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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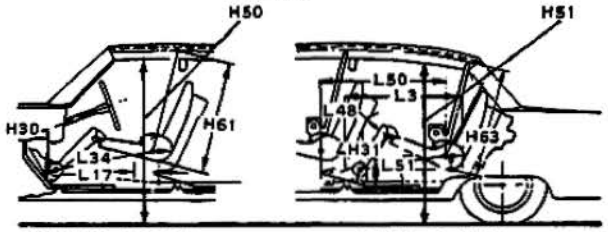
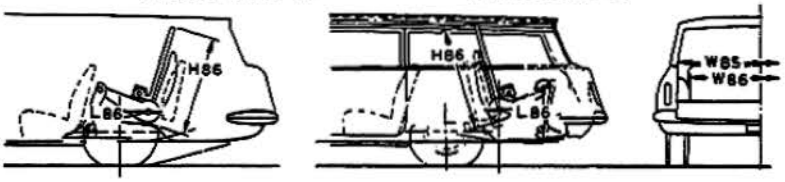
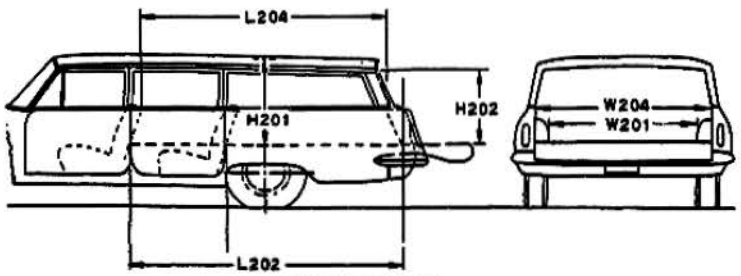


FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

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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 wheelhousings 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.

$$\frac{W4 \times L204 \times H201}{1728}$$

AMA Specifications—Passenger Car

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