

# AMA Specifications—Passenger Car

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MANUFACTURER	Chevrolet Motor Division General Motors Corporation	CAR NAME	CAMARO
MAILING ADDRESS	Chevrolet Engineering Center 30003 Van Dyke, Warren, Michigan 48090	MODEL YEAR	1969
		ISSUED:	11-1-68
		REVISED (●)	

#### 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.

	V-8 Engine <u>302 Cubic Inch</u>
2-Door Sport Coupe - Z-28 Option	12437

# AMA Specifications—Passenger Car

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MAKE OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-68 REVISED (a)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

All dimensions in inches unless otherwise indicated

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:

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

MODEL	SAE Ref. No.	2-Door Coupe - Z-28 Option
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### WIDTH

Track - Front	W101	59.6
Track - Rear	W102	59.5
Maximum overall car width	W103	74.0
Body width at No. 2 pillar	W117	

### LENGTH

Body "O" to front of dash	L 30	0.5
Wheel base	L101	108.0
Overall car length	L103	186.0
Overhang - front	L104	37.1
Overhang - rear	L105	40.9
Body upper structure length	L123	
Body "O" line to $\epsilon$ of rear wheel	L127	90.0
Body "O" line to w.s. cowl point	L130	

### HEIGHT

Passenger Distribution (front & rear)		2 & 2
Trunk (Cargo load (lbs.))		
Overall height	H101	51.1
Cowl height	H114	36.4
Deck height	H138	
Rocker panel - front	To ground From front wheel $\epsilon$	H112 8.1
Rocker panel - rear	To ground From rear wheel $\epsilon$	H111 6.8
Windshield slope angle	H122	52.4

### GROUND CLEARANCE

Bumper to ground - front	H102	23.0
Bumper to ground - rear	H104	21.2
Angle of approach	H106	25.2
Angle of departure	H107	18.5
Ramp breakover angle	H147	12.4
Min. running clearance (Specify)	H156	5.1 (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.	
		2-Door Sport Coupe Z-28 Option

## FRONT COMPARTMENT

Effective head room	H61	37.1
Max. eff. leg room - accelerator	L34	42.5
H Point to heel point	H30	7.7
H Point travel	L17	4.0
Shoulder room	W 3	56.5
Hip room	W 5	56.3
Upper body opening to ground	H50	47.0

## REAR COMPARTMENT

H Point couple distance	L50	27.0
Effective head room	H63	36.7
Min. effective leg room	L51	29.2
H Point to Heel point	H31	9.4
Min. knee room	L48	+0.8
Rear Compartment room	L 3	22.5
Shoulder room	W 4	53.6
Hip room	W 6	54.6
Upper body opening to ground	H51	

## LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	8.5
Liftover height	H195	28.1
Position of spare tire storage		Right side trunk
Method of holding lid open		Actuating torsion rods and spring loaded hinges

## STATION WAGON - THIRD SEAT

Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	NOT
Effective head room	H86	APPLICABLE
Seat facing direction		

## STATION WAGON - CARGO SPACE

Cargo length at floor - front seat	L202	
Cargo length at belt - front seat	L204	NOT
Cargo width - Wheelhouse	W201	APPLICABLE
Opening width at belt	W204	
Maximum cargo height	H201	
Rear opening height	H202	
Cargo volume index (cu. ft.) W8 x L204 x H201	V2	

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## POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO* *Std first. (Indicate A C ratio) **			
	Displ. cu. m.	Carburetor	Comp. Ratio	BHP RPM	Torque RPM		A	B	C	D
12437 2-Door Sport Coupe Z-28 Option	302	One: 4-bbl.	11.0:1	290 @ 5800	290 @ 4200	4-Speed (2.52:1 Low)	3.73	3.55	4.10	3.07
						4-Speed (2.20:1 low)	3.73	3.55	4.10	----
						H.D. 4-Speed (2.20:1 low)				
* Positraction required for 4.10; optional for all others ** Air Conditioning not available  A - Standard B - Economy C - Performance D - Special										

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MAKE OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-68 REVISED <sup>(a)</sup>MODEL Z-28 Option

## ENGINE - GENERAL

Type no. cyls. valve arr.	90° V-8 OHV
Bore and stroke (nominal)	4.002 x 3.005
Piston displacement cu. in.	302
Bore spacing (C to C)	4.40
No. system	L. Bank
(front to rear)	R. Bank
	1-3-5-7
	2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Compress. ratio (nominal)	11.00:1
Cylinder Head Material	Cast alloy iron
Cylinder Block Material	Cast alloy iron
Cyl. Sleeve-Wet, Dry, none	None
Number of	Front
mtg. points	Rear
	Two
	One
Engine installation angle	30° 55'
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower}}$	51.2
Publishing max. bhp* @ eng. RPM	290 @ 5800
Publishing max. torque* (lb. ft. @ RPM)	290 @ 4200
Recommended fuel regular - premium	Premium

## ENGINE - PISTONS

Material	Aluminum impact extruded	
Description and finish	Doomed head; slipper skirt	
Weight (piston only) oz.	21.71	
Clearance (limits)	Top land	.0305 - .0395
	Skirt	Top Bottom
		.0036 - .0062 (a)
Ring groove depth	No. 1 ring	.2218 - .2283
	No. 2 ring	.2218 - .2283
	No. 3 ring	.2038 - .2103
	No. 4 ring	None

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

(a) Measured 2.08 from top of piston

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DEL Z-28 Option

## ENGINE - RINGS

Function step to bottom	No. 1 oil or comp.	Compression
	No. 2 oil or comp.	Compression
	No. 3 oil or comp.	Oil
	No. 4 oil or comp.	None
Compression	Description - Upper material, coating, etc.	Cast alloy iron, no bevel, straight face; Moly filled groove
	Lower	Cast alloy iron, inside bevel, tapered face; chrome plated
	Width	Upper .0770-.0775; Lower .0775-.0780
	Gap	Upper .010-.020; Lower .013-.023
Oil	Description - material, coating, etc.	Multi-piece (2 rails and one spacer expander) Rails-steel, chrome plated OD; expander-stainless steel
	Width	.1870-.1890 (assembled)
	Gap	.015-.055
Expanders		In oil ring assembly

## ENGINE - PISTON PINS

Material	Chromium steel	
Length	2.990-3.010	
Diameter	.9270-.9273	
Locking	Locked in rod in piston, fitting etc.	Locked in rod
	Bush. In rod or piston	None
	Material	None
Clearance	In piston	.00045-.00055
	In rod	
Direction & amount offset in piston	None	

## ENGINE - CONNECTING RODS

Material	Drop forged steel	
Weight (oz.)	21.60	
Length (center to center)	5.695-5.705	
Bearing	Material & Type	Premium aluminum
	Overall length	.807
	Clearance (limits)	.0007-.0028
	End play	.009-.013



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MODEL 7.28 Option

## ENGINE - CRANKSHAFT

Material		Forged steel	
Vibration damper type		Rubber mounted inertia	
End thrust taken by bearing (No.)		5	
Crankshaft and Flw		.002-.006	
Main bearing	Material & type	Steel, backed insert bearing material-copper lead alloy or premium aluminum -for intended engine operation and application	
	Clearance	#1 (.0008-.0020)#2,3 &4 (.0008-.0024) #5 (.0015-.0031)	
	Journal dia and bearing overall length	No 1	2.4497 x .752
		No 2	2.4499 x .752
		No 3	2.4499 x .752
		No 4	2.4499 x .752
		No 5	2.4507 x 1.777
		No 6	None
No 7		None	
Dir & amt cyl. offset		None	
Crankpin journal diameter		2.099-2.100	

## ENGINE - CAMSHAFT

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

## ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Not available
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.50
Operating tappet clearance (indicate hot or cold)	Intake	.025
	Exhaust	.025

(Continued)

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MODEL Z-28 Option PART # 3927141 (3927140)

ENGINE—VALVE SYSTEM (cont.) valve cover cover

Timing based on top of ramp points	Intake	Opens (°BTC)	60° 50'	38° 17'
		Closes (°ABC)	105° 23'	81° 33'
		Duration—deg.	346° 13'	299° 50'
	Exhaust	Opens (°B6C)	108° 50'	88° 17'
		Closes (°ATC)	57° 23'	45° 7'
		Duration—deg.	346° 13'	313° 24'
Valve opening overlap		118° 13'	83° 24'	
Intake	Material		Alloy steel	
	Overall length		4.8704-4.8896	
	Actual overall head dia.		2.017-2.023	
	Angle of seat & face		46° (seat) 45° (face)	
	Seat insert material		None	
	Stem diameter		.3410-.3417	
	Stem to guide clearance		.0010-.0027	
	Lift (- zero lash)		.4850	
	Outer spring press. & length	Valve closed (lb. & in.)	76-84 @ 1.70	
		Valve open (lb. & in.)	194-206 @ 1.25	
Inner spring press. & length	Valve closed (lb. & in.)	Spring damper		
	Valve open (lb. & in.)	Spring damper		
Exhaust	Material		High alloy steel - aluminized face	
	Overall length		4.891-4.910	
	Actual overall head dia.		1.595-1.605	
	Angle of seat & face		46° (seat) 45° (face)	
	Seat insert material		None	
	Stem diameter		.3410-.3417	
	Stem to guide clearance		.0010-.0027	
	Lift (- zero lash)		.4850	
	Outer spring press. & length	Valve closed (lb. & in.)	76-84 @ 1.70	
		Valve open (lb. & in.)	194-206 @ 1.25	
Inner spring press. & length	Valve closed (lb. & in.)	Spring damper		
	Valve open (lb. & in.)	Spring damper		

## ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, or other)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Centrifugally bled from camshaft bearings
	Cylinder walls	Pressure jet cross sprayed

(Continued)



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DDEL Z-28 Option

## ENGINE – LUBRICATION SYSTEM (cont.)

Dil pump type	Gear
Normal oil pressure (lb. engine rpm)	30-45 PSI @ 1500 RPM-bench test - no flow conditions
Oil press. loading unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part filter)	Full-flow
Filter replacement element, complete	Complete
Capacity of c. case, less filter-refill (qt.)	4
Dil grade recommended (SAE viscosity and temperature range)	20°F and above -20 W, 10W-30, 10W-40, 20W-40 0° F to 60° F - 10@, 5W-30, 10W-30, 10W-40 Below 0° F. 5W, 5W-20, 5W-30
Engine Service Reqt. (MM MS etc.)	MS or DG

## ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual, chambered exhaust	
Muffler No. & type (reverse flow, straight thru, separate resonator)	4-Chambered - (2 forward; 2 rearward)	
Exhaust pipe dia. (C.D., wall thick.)	FRONT Front	2.25 x .073 .091 laminated
	REAR Rear	2.00 x .062 - .076
pipe dia (C.D. & wall thickness)		2.00 x .060

## ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atms., induction system, other)	Standard Optional	Ventilates to induction system
Control Unit	Make and model	AC Apark Plug 6424251
	Location	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 arrester (screen, check valve, other)	Screen

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MODEL Z-28 Option

## ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air Injection reactor equipment	
Air Injection Pump	Type	Semi-articulated vane type	
	Displacement	19.3 cubic inch	
	Drive ratio	1.15:1	
	Drive type	Crankshaft pulley	
	Relief valve (type)	Diverter valve - separate from pump	
Filter (describe)		Centrifugal air cleaner	
Air Injection System	Air distribution (head, manifold, etc.)	Manifold	
	Point of entry	Exhaust ports	
	Injection tube I.D.	.2565	
	Check valve type	Pressure (plate type)	
Backfire protection (type)		Diverter valve	
Carburetor	Make	Holley	
	Model	3923289	
	Barrel size	1.686 (primary & secondary)	
	Idle speed	Drive	--
		Neutral	900 RPM
Idle A/F mixture		Not specified	
Aux. Adv. Systems (type)		None	
Distributor	Make	Delco Remy	
	Model	1111480	
	Cent'fgal adv. in crank degrees / eng. rpm	Start (rpm)	1250
		Intermed. points deg. / rpm	23 @ 2150
		Max. deg. / rpm	32 @ 4400
	Vacuum adv. in crank degrees / eng. rpm	Start (in Hg)	8.00
		Intermed. points deg. / in. Hg	None
Max. deg. in		15 @ 15.5	
Vacuum Source		Carburetor	
Timing - Crank degrees - rpm		4° BTC @ Idle	
Cooling System			
Exhaust System			

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DEL Z-28 Option

## ENGINE - FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor	
Fuel Tank	Refill capacity (U.S. gals.)	18 (approximately)	
	Filler location	Behind hinged rear license plate	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Right side front of engine	
	Pressure range	7.50-9.00 PSI*	
Vacuum booster (std.; optional, none)		None	
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and plastic filter in carburetor inlet	
	Locations	Automatic	
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	900 RPM @ Idle
Automatic		---	
	Idle A F mix.	Not specified	

### CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Bore Size
			Make	Model		
12437	320 302	4-Speed	Holley	3923289	One; 4-BBL	1.686 Primary & Secondary

\* Shut off pressure - 1800 RPM at pump outlet

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MODEL Z-28 Option

## ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented atmospheric; other)		Pressure	
Radiator cap relief valve pressure		15 ± 1 PSI	
Circulation thermostat	Type (choke; bypass)	Choke	
	Starts to open at (°F)	192°-198°	
Water pump	Type (centrifugal; other)	Centrifugal	
	GPM @ 1000 pump rpm	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	
Radiator core type (cellular, tube and fin, other)		Cross flow	
Cooling system capacity	With heater (qt.)	16	
	Without heater (qt.)	15	
	Opt. equipment-specify (qt.)	None	
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
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing		7-staggered
	Diameter		18.00
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		Thermo-modulated viscous
	Bearing type		Double row ball
Drive belts (indicate belt used by letter)	Fan		A
	Generator or alternator		A
	Water Pump		A
	Power Steering		B
Air Conditioning		--	

Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	42°									
Nominal length (SAE)	46.50	35.00									
Width	.380										

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NAME OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-68 REVISED (e)

MODEL Z-28 Option

## ELECTRICAL - SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1980032
	Voltage Rtg. & Total Plates		12 volts - 54 plates
	SAE Designation & Amp. Hr. Rtg.		45 amp hr. @ 20 hr. rate
	Location		Right side front of engine
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		1100837
	Type and rating		Diode rectified - 37 amps
	Output at engine idle (neutral)		13 amps
	Ratio-Gen. to Cr. s rev.		2.46:1
Regulator	Make		Delco-Remy
	Model		119515
	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		1108367
	Rotation (drive end view)		Clockwise
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Place gearshift lever in neutral and depress clutch INITIAL START-Press accelerator to floor and release Turn ignition to START, release as soon as engine starts
Motor Drive	Engagement type		Positive shift solenoid
	Pinion meshes (front, rear)		Rear
	Number of teeth	Pinion	9
		Flywheel	Manual
			Auto.
	Flywheel tooth face width		Manual
		Auto.	--



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MODEL Z-28 Option

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.	Standard	
	Transistorized - Std., Opt., N.A.	N.A.	
	Other (specify):	None	
Coil	Make	Delco Remy	
	Model	1115298	
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make	Delco-Remy	
	Model	1111480	
	Cent'g adv. in c shaft degrees @ engine rpm (nominal)	Start (rpm)	1250
		Intermediate points deg. @ rpm	23 @ 2150
		Max. deg. @ rpm	32 @ 4400
	Vacuum adv. in c shaft degrees in. Hg. (nominal)	Start (in. Hg.)	8.00
		Intermediate points, deg. @ in. Hg.	None
		Max. deg. in. Hg.	15 @ 15.5
	Timing	Breaker gap (in.)	.019
		Cam angle (deg.)	29-31
Breaker arm tension (oz.)		19-23	
Crankshaft deg. @ rpm		4° BTC @ Idle	
Mark location		Torsional damper	
Spark Plug		Make	AC Spark Plug
	Model	AC R43	
	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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## ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	Dial
	Trip odometer (yes, no)	No
Charge indicator - type		Ammeter
Temperature indicator - type		Electric Gauge
Oil pressure indicator - type		Electric Gauge
Fuel indicator - type		Electric Gauge
Other		Tachometer
Wind-shield wiper	Type - Standard	Electric Two-Speed
	Type - Optional	None
Wind-shield washer	Type - Standard	Push Button
	Type - Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	4.5-6.5 @ 12.5 (low note) 4.2-6.2 @ 12.5 (Hi-Note)

## DRIVE UNITS - CLUTCH (Manual Transmission)

Make & type	Chevrolet- single dry disc centrifugal	
Type pressure plate springs	Diaphragm bent finger design	
Total spring load (lb.)	2300-2600	
Number of clutch driven discs	One	
Clutch facings	Material	Premium grade woven asbestos
	Outside & inside dia.	10.34 x 6.50
	Total eff. area (sq. in.)	101.54
	Thickness	.135
	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

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MODEL Z-28 Option

## DRIVE UNITS – TRANSMISSIONS

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

## DRIVE UNITS – MANUAL TRANS

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

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

For transmission data see manual transmission section)

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

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MODEL Z-28 Option

## DRIVE UNITS—AUTOMATIC TRANSMISSION

Type name		
Type describe		
Selector location		NOT
List gear ratios Selector Pattern and indicate which are used in each selector position		AVAILABLE
Max. upshift speed—drive range		
Max. kickdown speed—drive range		
Torque converter	Number of elements	
	Max. ratio at stall	
	Type of cooling (air, liquid)	
	Nominal diameter	
Lubricant	Capacity—refill (pt.)	
	Type recommended	
Special transmission features		

## DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Tubular, exposed
Outer diam. x length* x wall thickness	Manual 3-speed trans.	Not available
	Manual 4-speed trans.	2.75 x 49.56 x .065
	Overdrive transmission	Not available
	Automatic transmission	Not available

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

(Continued)

# AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-68 REVISED (a)

MODEL Z-28 Option

## 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.	1.502 - 1.503
Universal joints	Make and Mfg. No.	Chevrolet 3841935
	Number used	Two
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U-Bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)		Springs
Torque taken through (torque tube or arms, springs)		Springs

## DRIVE UNITS — AXLE

Type (front, rear)		Rear	
Description		Semi-floating, overhung pinion 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 roller	
Lubricant	Capacity (pt.)	3.5	
	Type recommended	Meeting Military Specs. MIL-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		3.73	3.55	4.10	3.07	3.31
No. of teeth	Pinion	11	11	10	14	13
	Ring gear	41	39	41	43	43
Ring Gear O.D.		8.875				

# AMA Specifications—Passenger Car

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MODEL Z-28 Option

## DRIVE UNITS - WHEELS

Type & material		Short spoke disc, steel
Rim (size & flange type)	Std	15 x 7
	Opt.	None
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	E70 x 15 - 4 ply	
	Type (bias, radial, etc.)	bias	
	Full rated Inflation Press.	Front	
		Rear	
	Rev. Mile at 50 MPH	NA	
Optional	Size, ply rating, & ply	NONE	

## BRAKES - PARKING

Type of control		Foot pedal apply; "T" handle release
Location of control		Left of steering column under instrument panel
Operates on		Rear service brakes
If separate front service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

## AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-68 REVISED (a)MODEL Z-28 Option

## BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Front-Disc; Rear-Drum		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay metering, other)	Metering		
Power brake make & type (remote, int., etc.)	Std. Opt.	Delco Moraine vacuum power unit; integral		
Effective area (sq. in.)		134.0		
Gross lining area (sq. in.)		118.1		
Swept area (sq. in.) <sup>***</sup>		332.4		
Front to Rear Effectiveness Relationship				
Drum	Diameter (nominal)	Front	11.0	
		Rear	9.5	
	Type and material	Cast iron-front disc; Composite rear cast iron rim, steel web		
Rotor	Outer working diameter		11.0	
	Inner working diameter		7.18	
	Working width		1.00	
	Material & type (vented-solid)		Cast iron vented	
Wheel cylinder bore	Front		2.9375	
	Rear		.875	
Master Cylinder	Bore		1.125	
	displacement distribution	Front %	69% @ 0 PSI	
		Rear %	31% @ 0 PSI	
Pedal arc ratio		3.82		
Line pressure at 100 lb. pedal load				
Shoe Clearance	Front		Self adjusting	
	Rear		Self adjusting	
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material	Molded asbestos	
		Size (length x width x thickness)	Prim. or out-board	5.96 x 2.21 x .41
			Secord. or in-board	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	
		Secord. or in-board	9.01 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.)



# AMA Specifications—Passenger Car

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MODEL Z-28 Option

## 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	
	(std., opt., NA)	Optional	
Wheel diameter	Manual	Oval - 16.25 x 15.50	
	Power	Oval - 16.25 x 15.50	
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	39.9
		Curb to curb (l. & r.)	37.5
	Inside rear	Wall to wall (l. & r.)	NA
		Curb to curb (l. & r.)	NA
Manual	Gear	Type	Semi-reversible, recirculating ball nut
		Make	Saginaw
	Ratios	Gear	24:1
		Overall	21.6:1
	No. wheel turns (stop to stop)		3.5
Power	Type (coaxial, linkage, etc.)		Integral with vane type pump
	Make		Saginaw
	Gear	Type	Same as manual
		Ratios	Gear
	Overall		14.3:1 - 10.8:1
Pump driven by		Crankshaft pulley	
No. wheel turns (stop to stop)		2.06	
Linkage	Type		Parallelogram
	Location (front or rear of wheels, other)		Rear
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		8 1/4 to 9 1/4
	Bearings (type)	Upper	Ball stud with non-metallic bearing surface
		Lower	Ball stud with non-metallic bearing surface
		Thrust	None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		0 to P1
	Camber (deg.)		N-1/4 to P-3/4
	Toe-in (outside track inches)		1/8 to 1/4
Steering spindle & joint type		Steering knuckle with spherical joints	
Wheel Spindle	Diametc.	Inner bearing	1.2493-1.2498
		Outer bearing	.7491 - .7497
	Thread size		3/4-20NEF-3 (Modified)
	Bearing type		Taper roller

# AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-69 REVISED (a)

MODEL Z-28 Option

## SUSPENSION - GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Front stabilizer bar	
Provision for brake dip control	Front suspension geometry	
Provision for belt squat control	Rear suspension geometry	
Special provisions for car tracking	Front: 3 3/4 in. inboard of bumper bolt Rear: 2 1/2 in. inboard of bumper bolt	
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 springs and concentric shock absorber and spherically jointed steering knuckle for each wheel	
Spring	Type	Coil right hand helix
	Material	Steel alloy
	Size (coil design height & I.D. bar length x dia.)	11.09 x 3.63; 108.05 x .604
	Spring rate (lb per in.)	
	Rate at wheel (lb per in.)	
Stabilizer	Type (link linkless frameless)	Link
	Material & bar diameter	

## SUSPENSION - REAR

Type and description	Salisbury rear axle with multiple leaf springs	
Drive and torque taken through	Rear springs	
Spring	Type	Multiple leaf
	Material	Chrome carbon steel
	Size (length x width, coil design height & I.D. bar length & dia.)	Bar length 56.00; width 2.50
	Spring rate (lb per in.)	
	Rate at wheel (lb per in.)	
	Mounting insulation type	Rubber bushed at shackle and hangers
	If leaf	No. of leaves Shackles/compartments
Stabilizer	Type (link, linkless, frameless)	None
	Material	
Track bar type	None	

# AMA Specifications—Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1969 DATE ISSUED 10/15/67 REVISED (\*)

MODEL Z-28 Option

FRAME  Type and description (Separate frame, unitized frame, partially - unitized frame)	Combination body frame integral with separate forward portion ladder frame
--	--

### BODY - MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	None
Type of finish (lacquer, enamel, other)		Acrylic lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Ident. No. location		Top left hand of instrument panel pad
Engine No. location		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	None
	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)		Curved - tempered plate
Windshield glass exposed surface area		1032.6
Side glass exposed surface area		1128.6
Backlight glass exposed surface area		819.2
Total glass exposed surface area		2980.4

# AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL-YEAR 1969 DATE ISSUED 11-1-68 REVISED (a)

MODEL Z-28 Option

## CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	NA
	Backlight or tailgate	NA
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		NA
Front seat head restraint (R-L or both)		Standard-both
Radios (specify type as well as availability)		Optional: -AM Push Button; AM FM Push Button; AM FM Stereo Radio
Rear seat speaker		Optional
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Not available
Speed warning device		Optional
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
hood lamp		Optional
trunk lamp		Optional
map lamp		NA
Auto trans. quad. lamp		NA
Cornering light lamp		NA

## LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	Lowest
	Tail	Highest	
		Lowest	
	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

# AMA Specifications—Passenger Car

MAKE OF CAR Camaro MODEL YEAR 1969 DATE ISSUED 11-1-68 REVISED (a)

## WEIGHTS

Model	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
	Front	Rear	Total	Pass. in Front		Pass. in Rear		Fuel	Coolant
				Front	Rear	Front	Rear		
2-Door Sport Coupe-12437 (with base 327 cu.in.)	1745	1390	3135					110.2	32.9
With RPO Z-28	1797	1499	3296						

Accessories & Equipment	Differential weights			Remarks
Power Windows	9	10	+19	
Folding Rear Seat	6	32	+38	
Disc Brakes-Front	28	13	+41	
Disc Brakes-Front & Rear			+65	
Power Brakes	9	2	+11	
Power Steering	28	0	-28	
Radio - AM	6	2	+ 8	
Radio - AM/FM	7	3	+10	
Stereo	12	5	+17	
Special Ducted Hood	8	0	+ 8	
Panel & Valance Assy.	-1	+8	+ 7	

\*Reference - SAE Aerospace-Automotive drawing standards, Section E 1 02 (d)

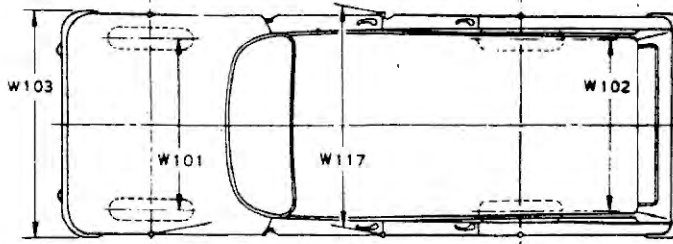


# AMA Specifications—Passenger Car

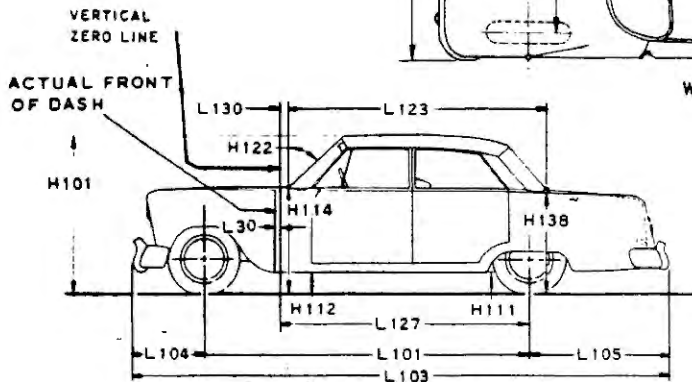
## CAR AND BODY DIMENSIONS

### KEY SHEET

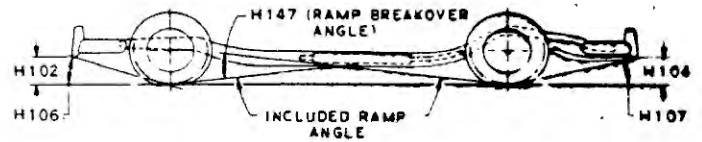
#### EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

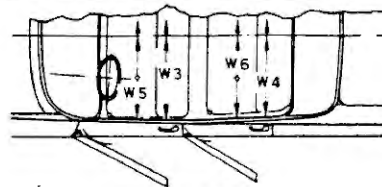


LENGTH & HEIGHT

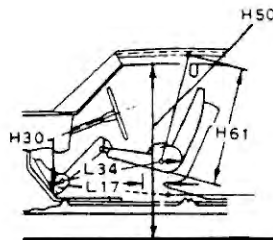


GROUND CLEARANCE

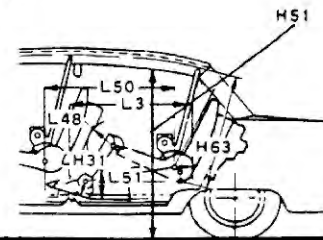
#### INTERIOR CAR AND BODY DIMENSIONS



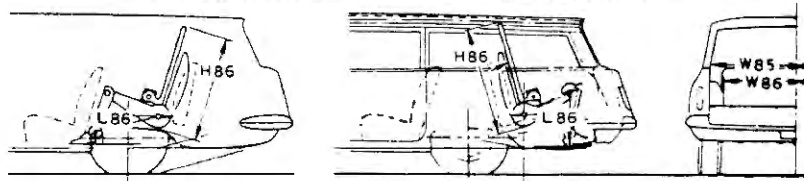
WIDTH



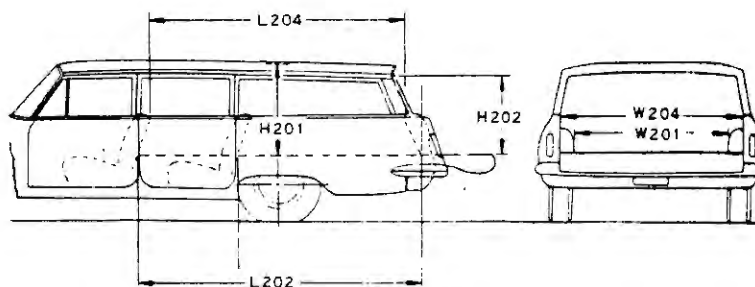
FRONT COMPT.



REAR COMPT.



THIRD SEAT



CARGO SPACE



## 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 LIFT-OVER 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.

W4xL204xH201  
1728

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