

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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Car & Body Dimensions	1,2	Drive Units	14	Suspensions	21
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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

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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 - 2-28 Option

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 "C" to front of dash	L 30	0.5
Wheelbase	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 ϵ of rear wheel	L127	90.0
Body "O" line to w s cowl point	L130	

GHT

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 ϵ	H112 8.1
Rocker panel - rear	To ground From rear wheel ϵ	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	M61	37.1
Max. eff. leg room - accelerator	L34	42.5
H Point to Heel point	M30	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	M50	47.0

REAR COMPARTMENT

H Point couple distance	L50	27.0
Effective head room	M63	36.7
Min. effective leg room	L51	29.2
H Point to Heel point	M31	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	M51	

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	8.5
Liftover height	M195	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	M86	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 L202 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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ENGINE - GENERAL

Type no. cyls. - valve arr.	90° V-8 OHV
Bore and stroke (nominal)	4.002 x 3.005
Compression ratio	10.0
Bore spacing (C to C)	4.60
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
Camers, 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 top to bottom	No. 1 oil or comp.	Compression
	No. 2 oil or comp.	Compression
	No. 3 oil or comp.	Oil
	No. 4 oil or comp.	None
Compression	Description - Upper material, coating, etc.	Cast alloy iron, 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, floating etc.	Locked in rod
	Bush- ing	In rod or piston Material
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 Z-28 Option

ENGINE - CRANKSHAFT

Material	Forged steel		
Vibration damper type	Rubber mounted inertia		
End thrust taken by bearing (No.)	5		
Crankshaft and Flaw	.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 diameter 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
	Oil	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 habbitt	
	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

ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp point)	Intake	Opens (°BTC)	60° 50'	
		Closes (°ABC)	105° 23'	
		Duration - deg.	346° 13'	
	Exhaust	Opens (°BEC)	108° 50'	
		Closes (°ATC)	57° 23'	
		Duration - deg.	346° 13'	
Valve opening overlap			118° 13'	
Intake	Material		Alloy steel	
	Overall length		4.8704-4.8894	
	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 lubrica- tion (splash, pressure, etc)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tapers	Pressure
	Timing gear or chain	Centrifugally bled from camshaft bearings
	Cylinder walls	Pressure jet cross sprayed

(Continued)

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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. sending unit (electrical circuit)	Electric
Type oil intake (floating, stationary?)	Stationary
Oil filter system (full flow, part flow, other)	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. (O.D., wall thick.)	FRONT Front	2.25 x .073 .091 laminated
	RRR Rear	2.00 x .062 - .076
pipe dia (O.D. & wall thickness)		2.00 x .060

ENGINE - CRANKCASE VENTILATION SYSTEM

Type (ventilates to atms., induction system, other)	Standard	Ventilates to induction system
	Optional	
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 cup, 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	
	Centrifugal 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	Exhaust	
	Intake manifold heat control (exhaust or water)	Oil-wetted paper element	
	Air cleaner type	Standard	None
		Optional	900 RPM @ Idle
	Idle speed (spec. neutral or drive)	Manual	---
Automatic		Not specified	
Idle A F mix.			

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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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. rev.		2.46:1
Regulator	Make		Delco-Remy
	Model		119515
	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		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 teeth face width	Manual	.6010-.6130
Auto.		--	

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MODEL 2-28 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 Engine idling	
Distributor	Make	Delco-Remy	
	Model	1111480	
	Centrifugal 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	
Cable	Gap	.033-.038	
	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
. of clutch driven discs		One
Clutch facing	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	
Capacity (pt.)		3	
Type recommended		Meeting Military Specs MIL-L-2105B	
Lubricant	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		
Capacity (pt.): (Overdrive only)		
Separate filler (yes, no)		AVAILABLE
Type recommended		
Lubricant	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 (6)

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 (qt.)	3.5	
	Type recommended	Meeting Military Specs. MIL-21058	
	SAE vis- cosity 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

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

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.) ^{***}		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	Front %	69% @ 0 PSI	
	distribution	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

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

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 (casual, 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 of 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 (*)

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 steering 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

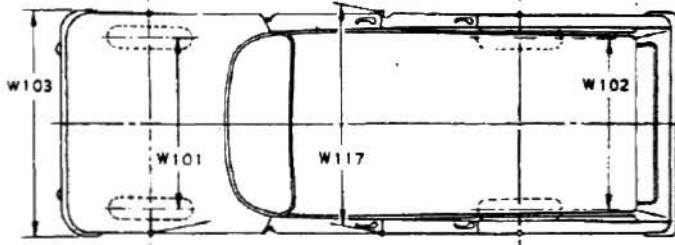
Type and description	Salisbury rear axle with multiple leaf springs
Drive and torque taken through	Rear springs
Spring	Type: Multiple leaf
	Material: Chrome carbon steel
	Size (length x width, coil design height & I.D. bar length & dia.): Bar length 56.00; width 2.50
	Spring rate (lb per in.):
	Rate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

AMA Specifications—Passenger Car

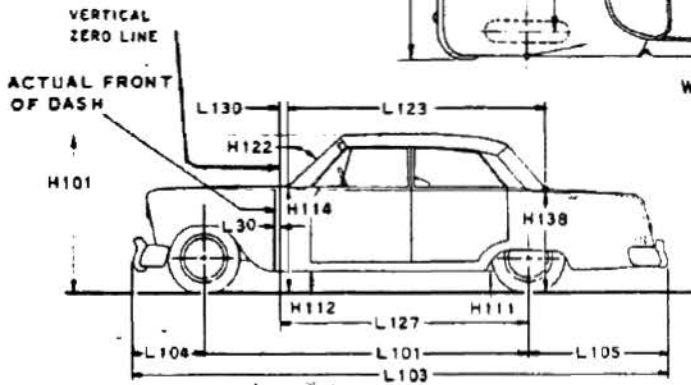
CAR AND BODY DIMENSIONS

KEY SHEET

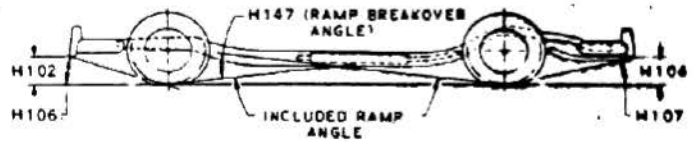
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

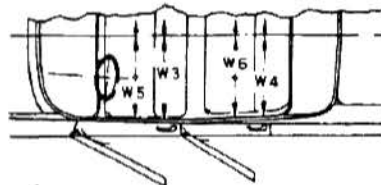


LENGTH & HEIGHT

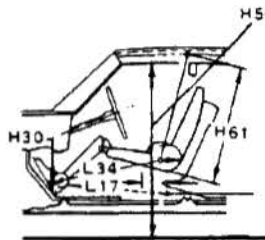


GROUND CLEARANCE

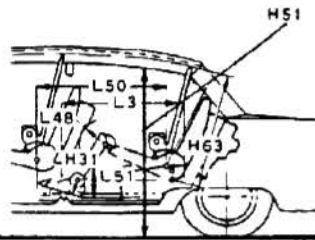
INTERIOR CAR AND BODY DIMENSIONS



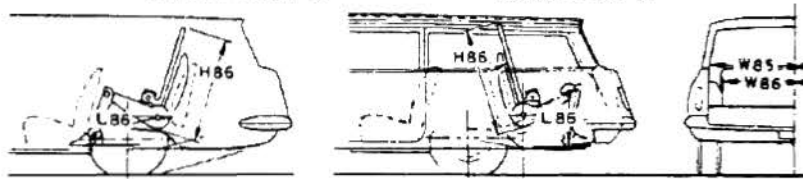
WIDTH



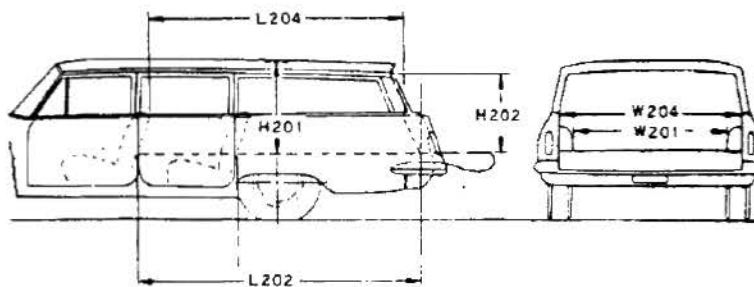
FRONT COMPT.



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 BRAKOVER 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 wheelhouising 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.

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