

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	1970
		ISSUED:	2-70
		REVISED (•)	

NOTES:

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

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BODY — TYPES AND STYLE NAMES —

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

	<u>L-6 Engine</u>	<u>V-8 Engine</u>
2-Door Sport Coupe, 4-Passenger	12387	12487

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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.	
		2-Door Sport Coupe

WIDTH

Track — Front	W101	61.3
Track — Rear	W102	60.0
Maximum overall car width	W103	74.4
Body width at No. 2 pillar	W117	

LENGTH

Body "O" to front of dash	L 30	-1.2
Wheelbase	L101	108.0
Overall car length	L103	188.0
Overhang — front	L104	38.1
Overhang — rear	L105	41.9
Body upper structure length	L123	94.1
Body "O" line to ϕ of rear wheel	L127	86.7
Body "O" line to w/s cowl point	L130	8.4

HEIGHT

Passenger Distribution (front & rear)		2-2
Trunk/Cargo load (lbs.)		
Overall height	H101	50.5
Cowl height	H114	35.3
Deck height	H138	
Rocker panel — front	To ground	6.8
	From front wheel ϕ	
Rocker panel — rear	To ground	5.6
	From rear wheel ϕ	
Windshield slope angle	H122	57.4

GROUND CLEARANCE

Bumper to ground — front	H102	19.8
Bumper to ground — rear	H104	18.2
Angle of approach	H106	25.0
Angle of departure	H107	15.0
Ramp breakover angle	H147	13.0
Min. running clearance (Specify)	H156	4.5 (a)

(a) Exhaust system to ground

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CAR AND BODY DIMENSIONS

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(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	
		2-Door Sport Coupe

FRONT COMPARTMENT

Effective head room	H61	37.4
Max. eff. leg room — accelerator	L34	43.8
H Point to Heel point	H30	6.6
H Point travel	L17	5.6
Shoulder room	W 3	56.7
Hip room	W 5	56.7
Upper body opening to ground	H50	45.3

REAR COMPARTMENT

H Point couple distance	L50	27.4
Effective head room	H63	36.1
Min. effective leg room	L51	29.6
H Point to Heel point	H31	8.2
Min. knee room	L48	0.1
Rear Compartment room	L 3	23.6
Shoulder room	W 4	54.4
Hip room	W 6	47.3
Upper body opening to ground	H51	

LUGGAGE COMPARTMENT

Usable luggage capacity	V 1	7.3
Liftover height	H195	27.8
Position of spare tire storage		RH Corner - Flat
Method of holding lid open		Torsion Bars

STATION WAGON — THIRD SEAT

Shoulder Room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Seat facing direction		

NOT

APPLICABLE

STATION WAGON — CARGO SPACE

Cargo length at floor — front seat	L202	
Cargo length at belt — front seat	L204	
Cargo width — Wheelhouse	W201	
Opening width at belt	W204	
Maximum cargo height	H201	
Rear opening height	H202	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	

NOT

APPLICABLE

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO** (Std. first) (Indicate A/C ratio)		
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		Std.	Opt.	A/C
12387	Turbo- Thrift 250 L6 (Base)	One; 1-bbl	8.5:1	155 @ 4200	235 @ 1600	3-spd manual (2.85:1 low)	3.08	---	N.A.
						2-spd automatic*	2.73		
12487	Turbo- Fire 307 V8 (Base)	One; 2-bbl	9.00:1	200 @ 4600	300 @ 2400	3-spd manual (2.85:1 low)	3.08	---	3.08
						2-spd automatic*	2.73		2.73
						3-spd automatic*			
	Turbo- Fire 350 V8 (L65)*	One; 2-bbl	9.00:1	250 @ 4800	345 @ 2800	4-spd manual (2.54:1 low)	3.36	---	3.36
						3-spd automatic*	2.73		2.73
	Turbo- Fire 350 V8 (L48)*	One; 4-bbl	10.25:1	300 @ 4800	380 @ 3200	4-spd manual (2.52:1 low)	3.31	---	3.31
						3-spd automatic*	3.07		3.07
	Turbo- Fire 350 V8 (Z28)*	One; 4-bbl	11.00:1	360 @ 6000	380 @ 4000	4-spd manual (2.52:1 low)	3.73	4.10	N.A.
						4-spd manual*			
						HD 4-spd manual*			
						3-spd automatic*			
	Turbo- Jet 396 V8 402 CID (L34)*	One; 4-bbl	10.25:1	350 @ 5200	415 @ 3400	4-spd manual (2.52:1 low)	3.31	---	3.31
						4-spd manual*			
						3-spd automatic*			

* - Optional

** - Positraction required for 3.73 and 4.10 ratios; optional for all others.

Note 1: Trailer hauling - same axle ratios available (all engine/transmission/axle combinations except L6 - 250 engine), optional axle ratios available for improved performance in following combinations: 3.36 with V8-307 & 3 Spd. Auto.; 3.31 with V8-350 (L65) & 3 Spd. Auto.

Note 2: L34 and L48 available as "SS" option Z27 only.

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MODEL	Turbo-Thrift 250 L-6 155 HP	Turbo-Fire 307 V-8 200 HP	Turbo-Fire 350 V-8 250 HP
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ENGINE - GENERAL

Type, no. cyls., valve arr.		In-line 6 OHV	90° V-8 OHV	
Bore and stroke (nominal)		3.875 x 3.53	3.875 x 3.25	4.00 x 3.48
Piston displacement, cu. in.		250	307	350
Bore spacing (C to C)		4.40		
No. system	L. Bank	1-2-3-4-5-6	1-3-5-7	
(front to rear)	R. Bank	In-line	2-4-6-8	
Firing order		1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		8.5:1	9.00:1	
Cylinder Head Material		Cast iron		
Cylinder Block Material		Cast iron		
Cyl. Sleeve-Wet, dry, none		None		
Number of	Front	Two		
	mtg. points	Rear	One	
Engine installation angle		3°16'		
Taxable	$\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower}}$	36.0	48.0	51.2
Publishing max. bhp* @ eng. RPM		155 @ 4200	200 @ 4600	250 @ 4800
Publishing max. torque* (lb. ft. @ RPM)		235 @ 1600	300 @ 2400	345 @ 2800
Recommended fuel regular - premium		Regular		

ENGINE - PISTONS

Material	Cast aluminum alloy		
Description and finish	Flat, notched head; slipper skirt		
Weight (piston only) oz.	20.24	22.00	25.76
Clearance (limits)	Top land	.0245-.0335	.0235-.0325
	Skirt Top	.0005-.0011(a)	.0005-.0011(b)
	Bottom		.0007-.0013(c)
Ring groove depth	No. 1 ring	.2153-.2218	.2218-.2284
	No. 2 ring	.2153-.2218	.2218-.2284
	No. 3 ring	.2093-.2158	.2038-.2103
	No. 4 ring		

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

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

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MODEL	Turbo-Fire 350 V-8 300 HP	Turbo-Fire 350 V-8 360 HP	Turbo-Jet 396 V-8 350 HP
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ENGINE - GENERAL

Type, no. cyls., valve arr.		90° V-8 OHV	
Bore and stroke (nominal)		4.00 x 3.48	4.126 x 3.76
Piston displacement, cu. in.		350	402
Bore spacing (C to C)		4.40	4.84
No. system (front to rear)	L. Bank	1-3-5-7	
	R. Bank	2-4-6-8	
Firing order		1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		10.25:1	11.00:1 10.25:1
Cylinder Head Material		Cast iron	
Cylinder Block Material		Cast iron	
Cyl. Sleeve-Wet, dry, none		None	
Number of mtg. points	Front	Two	
	Rear	One	
Engine installation angle		3°16'	
Taxable	Dia ² xNo. Cyl.	51.2 54.5	
horsepower	2.5		
Publishing max. bhp* @ eng. RPM		300 @ 4800	360 @ 6000 350 @ 5200
Publishing max. torque * (lb. ft. @ RPM)		380 @ 3200	380 @ 4000 415 @ 3400
Recommended fuel regular - premium		Premium	

ENGINE - PISTONS

Material	Cast aluminum alloy	Alum. impact extruded	Cast aluminum alloy
Description and finish	Flat, notched head; slipper skirt	Domed head; slipper skirt	
Weight (piston only) oz.	25.76	20.41	24.93
Clearance (limits)	Top land	.0235-.0325	.0305-.0395
	Skirt	.0007-.0013(a)	.0036-.0042(b)
Ring groove depth	No. 1 ring	.2218-.2284	.2328-.2392
	No. 2 ring	.2218-.2284	.2328-.2392
	No. 3 ring	.2038-.2103	.2183-.2247
	No. 4 ring		

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

(a) Measured 1.560 from top of piston

(b) Measured 1.660 from top of piston

(c) Measured 1.942 from top of piston

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MAKE OF CAR	CAMARO		MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (a)
MODEL	L6 250	V8 307	V8 350			V8 396	
	155 HP	200 HP	250 HP	300 HP	360 HP	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	Cast alloy iron; barrel face (a)				
	Upper material, coating, etc.	Cast alloy iron; inside bevel; tapered face (b)				
	Lower					
	Width	(c)	(d)	(e)	(f)	(g)
	Gap	.010-.020		(h)		.010-.020
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails - steel, chrome plated OD; Expander - stainless steel				
	Width	.1870-.1890 (assembled)				
	Gap	.015-.055				
	Expanders	In oil ring assembly				

ENGINE—PISTON PINS

Material			Chromium steel		
Length			2.990-3.010	2.930-2.950	
Diameter			.9270-.9273	.9895-.9898	
Type	Locked in rod, in piston, floating, etc.		Locked in rod		
	Bush- ing	In rod or piston	None		
		Material			
Clearance	In piston		.00015-.00025	(i)	(j)
	In rod				
Direction & amount offset in piston			Major thrust side .060	None	.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	Premium aluminum	
	Overall length	.807	.797	.847
	Clearance (limits)	.0007-.0027	.0013-.0035	.0009-.0025
	End play	.009-.014	.008-.014	.015-.023

(a) Chrome plated on L6 250, V8 307 and 350 (250 and 300 HP); Molybdenum inlay V8 350 (360 HP) and 396

(b) Wear resistant coating on L6 250, V8 307 and 350 (250 and 300 HP); Chrome plating on V8 350 (360 HP) and 396

(c) Upper .0628-.0633; lower .0623-.0633

(d) Upper .0775-.0780; lower .0770-.0780

(e) Upper .0775-.0780; lower .0770-.0775

(f) Upper .0770-.0780; lower .0775-.0780

(g) Upper and lower .0770-.0780

(h) Upper .010-.020; lower .013-.025

(i) .00045-.00055

(j) .00030-.00040

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					V8 350	
MODEL	L6 250 155 HP	V8 307 200 HP	250 & 300 HP	360 HP		V8 396 350 HP

ENGINE – CRANKSHAFT

Material		Cast nodular iron		Forged steel		
Vibration damper type		Rubber mounted inertia				
End thrust taken by bearing (No.)		7		5		
Crankshaft end play		.002-.006		.006-.010		
Main bearing	Material & type		Steel backed insert; copper lead alloy or premium aluminum lining selected for specific application			
	Clearance		.0003-.0029	(a)		(b)
	Journal dia. and bearing overall length	No. 1	2.3004x.752	2.4502x.752	2.4503x.752	2.7509x.992
		No. 2	2.3004x.752	2.4505x.752	2.4503x.752	2.7510x.992
		No. 3	2.3004x.752	2.4505x.752	2.4503x.752	2.7505x.992
		No. 4	2.3004x.752	2.4505x.752	2.4503x.752	2.7505x.992
		No. 5	2.3004x.752	2.4508x1.177	2.4508x1.177	2.7510x1.2525
		No. 6	2.3004x.752	None		
		No. 7	2.3004x.760	None		
	Dir. & amt. cyl. offset		None			
Crankpin journal diameter		1.999-2.000	2.099-2.100	2.0988-2.0998	2.199-2.200	

ENGINE – CAMSHAFT

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

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)	Standard		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	.020	Zero
	Exhaust	Zero	.025	Zero

(Continued)

- (a) No. 1 - .0008-.0020
 No. 2, 3 & 4 - .0011-.0023
 No. 5 - .0017-.0033
 (b) No. 1 - .0007-.0019
 No. 2, 3 & 4 - .0013-.0025
 No. 5 - .0019-.0035

- (c) Above and to right of crankshaft
 (d) Bakelite and fabric composition with steel hub

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MODEL	L6 250	V8 307	V8 350	V8 396
	155 HP	200 HP	250 & 300 HP	350 HP

ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°	28°	42°40'	56°
		Closes (°ABC)	48°	72°	94°20'	114°
		Duration - deg.	244°	280°	317°	350°
	Exhaust	Opens (°BBC)	46°30'	78°	112°50'	110°
		Closes (°ATC)	17°30'	30°	53°23'	62°
		Duration - deg.	244°	288°	346°13'	352°
	Valve opening overlap		33°30'	58°	96°3'	118°
Material		Alloy steel; aluminized face all engines except V8 307 & 350 (a)				
Intake	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	2.017-2.023 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 (w zero lash)		.3880	.3900	.4586 .4614	
	Outer spring press. & length	Valve closed (lb. @ in.)	56-64 @ 1.66	76-84 @ 1.70		69-81 @ 1.88
		Valve open (lb. @ in.)	180-192 @ 1.27	194-206 @ 1.25		228-252 @ 1.38
	Inner spring press. & length	Valve closed (lb. @ in.)	None	Spring Damper		26-34 @ 1.78
		Valve open (lb. @ in.)	None	Spring Damper		81-99 @ 1.28
	Exhaust	Material		High alloy steel, aluminized face (b)		
Overall length		4.913-4.933	4.891-4.910	5.345-5.365		
Actual overall head dia.		1.495-1.505	1.595-1.605	1.715-1.725		
Angle of seat & face		46° (seat); 45° (face)				
Seat insert material		None				
Stem diameter		.3410-.3417 .3713-.3720				
Stem to guide clearance		.0010-.0027				
Lift (w zero lash)		.3880	.4100	.4850 .4800		
Outer spring press. & length		Valve closed (lb. @ in.)	56-64 @ 1.66	76-84 @ 1.70		69-81 @ 1.88
		Valve open (lb. @ in.)	180-192 @ 1.27	194-206 @ 1.25		228-252 @ 1.38
Inner spring press. & length		Valve closed (lb. @ in.)	None	Spring Damper		26-34 @ 1.78
		Valve open (lb. @ in.)	None	Spring Damper		81-99 @ 1.28

ENGINE – LUBRICATION SYSTEM

Type of lubrica- tion (splash, pressure, nozzle)	Main bearings	Pressure	
	Connecting rods	Pressure	
	Piston pins	Splash	
	Camshaft bearings	Pressure	
	Tappets	Pressure	
	Timing gear or chain	Nozzle	Centrifugally oiled from camshaft bearing
	Cylinder walls	Splash	Pressure jet cross sprayed

(Continued)

(a) Head also aluminized on V8 396

(b) Head also aluminized on V8 350 (320 HP) and V8 396

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MODEL	L6 250	V8 307	V8 350	V8 396
	155 HP	200 HP	250 HP	300 HP

ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	40 PSI @ 2000 RPM
Oil press. sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part., other)	Full flow
Filter replacement (element, complete)	Complete
Capacity of c/case, less filter-refill (qt.)	4
Oil grade recommended (SAE viscosity and temperature range)	20°F and above - 20W, 10W-30, 10W-40, 20W-40 0° to 60°F - 10W, 5W-30, 10W-30, 10W-40 Below 20°F - 5W, 5W-20, 5W-30
Engine Service Reqmt. (MM, MS, etc.)	MS

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	Single with crossover	Dual exhaust with single muffler
Muffler No. & type (reverse flow, straight thru, separate resonator)	One, reverse flow		
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 x .082 (a)	None
	Main	2.00 x .064	2.00 x .082 (a)
Tail pipe dia. (O.D. & wall thickness)	2.00 x .069	2.00 x .082 (a)	2.25 x .082 (a)

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Ventilates to induction system
	Optional	None
Make and model	AC Spark plug	
Location	On rocker cover - Top rear on L-6; Left front on V-8	
Energy source (manifold vacuum, carburetor air stream, other)	Manifold vacuum	
Control method (variable orifice, fixed orifice, other)	Variable orifice	
Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake manifold	
Air inlet (breather cap, carburetor air cleaner, other)	Carburetor air cleaner	
Flame arrestor (screen, check valve, other)	Screen	

(a) Laminated

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	L6 250	V8 307		V8 350		V8 396	
MODEL	155 HP	200 HP	250 HP	300 HP	360 HP	350 HP	

ENGINE - EXHAUST EMISSION CONTROL

MANUAL TRANSMISSIONS

Type (Air injection, engine modifications, other)		Air injection - V8 350 360 HP Engine modifications - all other engines					
Air * Injection Pump	Type	Semi-articulated vane type					
	Displacement	19.3					
	Drive ratio	1.15:1					
	Drive type	Crankshaft pulley					
	Relief valve (type)	Diverter valve - separate from pump					
Air * Injection System	Filter (describe)	Centrifugal air cleaner					
	Air distribution (head, manifold, etc.)	Cylinder head					
	Point of entry	Exhaust ports					
	Injection tube I.D.	.2565					
	Check valve type	Pressure plate type					
Carburetor	Backfire protection (type)	Diverter valve					
	Make						
	Model						
	Barrel size						
	Idle speed	Drive Neutral					
Distributor	Idle A/F mixture						
	Aux. Adv. Systems (type)	Transmission controlled vacuum spark advance					
	Make	Delco-Remy					
	Model	1110463	1111995	1112001	1111996	1112019	1111999
	Cent'gal adv. in crank degrees @ eng. rpm	900	1000	1000	950	1150	900
	Intermed. points deg. @ rpm	11.5@1300	10@1600	15@1800	20@1800	14@2100	21@2000
	Max. deg. @ rpm	32@4200	28@4300	36@4100	30@4700	26@5000	36@5000
	Vacuum adv. in crank degrees @ eng. rpm	7.00	6.00	7.00	8.00	8.00	8.00
	Intermed. points deg. @ in. Hg	None					
	Max. deg. @ in. Hg	23@16	15@12	24@17.5	20@17	15@15.5	
Vacuum Source		Carburetor					
Timing - Crank degrees @ rpm **		TDC	2 BTDC	TDC	TDC	8 BTDC	TDC
Cooling System		---					
Exhaust System		---					

* Applies to V8 350 (320 HP) only; engine modifications all other engines

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

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		L6 250	V8 307	V8 350	V8 396	
MODEL		155 HP	200 HP	250 HP	300 HP	360 HP 350 HP

ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		AUTOMATIC TRANSMISSIONS					
		Air injection - V8 350 360 HP					
		Engine modifications - all other engines					
Air Injection Pump	Type	Semi-articulated vane type					
	Displacement	19.3					
	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.)	Cylinder head					
	Point of entry	Exhaust ports					
	Injection tube I.D.	.2565					
	Check valve type	Pressure plate type					
	Backfire protection (type)	Diverter valve					
Carburetor	Make	REFER TO PAGE 10A					
	Model						
	Barrel size						
	Idle speed						
	Drive Neutral						
Distributor	Idle A/F mixture						
	Aux. Adv. Systems (type)	Transmission controlled vacuum spark advance					
	Make	Delco-Remy					
	Model	1110464	1112005	1112002	1111997	1112019	1112000
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	900	1000	1100	950	1150 1000
		Intermed. points deg. @ rpm	17@1950	12@2200	8@1400	20@1800	14@2100 15@1800
		Max. deg. @ rpm	28@4200	24@4300	32@4400	30@4700	26@5000 36@5000
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	7.00	8.00	7.00	8.00	8.00 6.00
		Intermed. points deg. @ in. Hg	None				
		Max. deg. @ in.	23@16	20@17	24@17.5	20@17	15@15.5 15@12
Vacuum Source		Carburetor					
Timing - Crank degrees @ rpm **		4 BTC	8 BTC	4 BTC	4 BTC	8 BTC	4 BTC
Cooling System (describe changes)		---					
Exhaust System (describe changes)		---					

* Applies to V8 350 (250 HP) only; engine modifications all other engines

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

AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED	(*)
MODEL		L6 250	V8 307	V8 350	V8 396		
		155 HP	200 HP	250 HP	300 HP	360 HP	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 19
	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 5.50-7.00 7.50-9.00
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Fine mesh plastic strainer in gasoline tank and
	Locations	paper filter (sintered bronze with V8 307) in carburetor inlet
	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
Carburetor	Air cleaner type	Thermostatically controlled; oil wetted paper element**
		Standard
		Optional
	Idle speed (spec. neutral or drive)	Manual 750 700 750 700 800 700
		Automatic 600 750 600
	Idle A/F mix.	Not specified

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
12387	250	Manual	Rochester	7040017	One;	1.69
		Automatic		7040014	1-bbl	
12487	307	Manual	Rochester	7040101(a)	One;	1.44
		Automatic		7040110(b)	2-bbl	
	350	Manual	Rochester	7040113(c)	One;	1.69
		Automatic		7040114(d)	2-bbl	
	250hp	Manual	Rochester	7040203	One;	1.38 Prim
		Automatic		7040202	4-bbl	
	300hp	Manual	Rochester	3972121	One;	1.69 Prim
		Automatic		3972120	4-bbl	
	360hp	Manual	Holley	7040205	One;	1.38 Prim
	396	Manual	Holley	7040205	One;	1.38 Prim
	350hp	Automatic	Rochester	7040204	4-bbl	2.25 Sec.

(a) 7040103 with Air Conditioning

(b) 7040112 with Air Conditioning

(c) 7040115 with Air Conditioning

(d) 7040116 with Air Conditioning

* Shut off pressure - 1800 RPM at pump outlet

** V8-350 (360 HP) Manual - Exposed element; Automatic - Dual Snorkel

V8-396 - Exposed Element

AMA Specifications—Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (e)MODEL Evaporation Emission Control System (California vehicles)Fuel Tank Capacity - 18 Gallons (approximately)Components:

- Fill Limiter - Shaped metal pan welded inside of gas tank to reserve space for normal gasoline expansion and contraction.
- Canister - Canister of activated carbon stores vapors vented from gas tank until removed and burned in the engine.
- Liquid Separator - Connected in vent lines to canister. Separates and returns liquid fuel to the tank.
- Constant flow purge line (canister to manifold) - Incorporates an orifice to regulate flow to manifold under all engine operating conditions, including idle.
- Variable Flow Purge Line (canister to air cleaner) (snorkel) - Becomes functional above engine idle speeds to more completely purge the canister.
- Aluminum Heat Dissipator - Positioned between insulation blocks and intake manifold. Provides optimum heat transfer to surrounding atmosphere.

Carburetor Model Nos.

		<u>L6 250</u>	<u>V8 307</u>	<u>V8 350 250 HP</u>	<u>V8 350 300 HP</u>	<u>V8 350 360 HP</u>	<u>V8 396</u>
Manual	Same	7040401	7040413	7040503	3973123	7040505	
Manual with A/C	as	7040403	7040415	7040503	---	7040505	
Automatic		7040410	7040414	7040502	3972122	7040504	
Automatic with A/C	Base	7040412	7040416	7040502	---	7040504	

AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (*)	
		L6 250	V8 307		V8 350		V8 396
MODEL		155 HP	200 HP	250 HP	300 HP	360 HP	350 HP

ENGINE - COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure					
Radiator cap relief valve pressure		15±1 PSI					
Circulation thermostat	Type (choke, bypass)	Choke					
	Starts to open at (°F)	192°-198°		177°-183° 192°-198°			
Water pump	Type (centrifugal, other)	Centrifugal					
	GPM @ 1000 pump rpm	26@2000		23@2000			
	Number of pumps	One					
	Drive (V-belt, other)	V-belt					
	Bearing type	Permanently lubricated double row ball					
By-pass recirculation type (inter., ext.)		Internal			External		
Radiator core type (cellular, tube and fin, other)		Tube and center					
Cooling system capacity	With heater (qt.)	12	15	16	23		
	Without heater (qt.)	11	14	15	22		
	Opt. equipment-specify (qt.)	13	16	16	23		
Water jackets full length of cyl. (yes, no)		Yes					
Water all around cylinder (yes, no)		Yes					
Radiator hose	Lower	Number and type (molded, straight)	One, molded				
		Inside diameter	1.75		1.88		
	Upper	Number and type (molded, straight)	One, molded				
		Inside diameter	1.50				
	By-pass	Number and type (molded, straight)	None			One, molded	
		Inside diameter	None			.725-.765	
	Fan	Number of blades & spacing		4 - staggered		5	4
		Diameter		17.62		18.00	
Ratio-fan to crankshaft rev.		1.165:1	.949:1	1.15:1	.949:1		
Fan cutout type		None		(a)	None		
Bearing type		Double row ball					
*Drive belts (indicate belt used by letter)	Fan	A	C	F			
	Generator or alternator	A	C	F			
	Water Pump	A	C	F			
	Power Steering	B	D	G	I		
	Air Conditioning	--	E	H	--		

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°-42°										
Nominal length (SAE)	37.30	48.50	44.25	36.00	54.33	45.75	41.00	58.00	35.00		
Width	.380										

(a) Thermo-modulated viscous

AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (e)	
		L6 250	V8 307	V8 350	V8 396		
MODEL		155 HP	200 HP	250 HP	300 HP	360 HP	350 HP

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 1980110		Delco-Remy 1980111	
	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 of engine compartment			
	Terminal grounded		Negative			
Generator or Alternator	Make		Delco-Remy			
	Model		1100834		1100837	1100834
	Type and rating		Diode rectified - 37 amps			
	Output at engine idle (neutral)		13 amps			
	Ratio—Gen. to Cr/s rev.		2.53:1		2.15:1	2.53:1
Regulator	Make		Delco-Remy			
	Model		1119515			
	Type		Vibrator			
	Cutout relay	Closing voltage @ generator rpm	None			
		Reverse current to open	None			
	Regu- lated	Voltage	13.8-14.8 @ 85°F			
		Current	---			
	Voltage test conditions	Temperature	Operating			
		Load	3-8 amperes			
Other		None				

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy			
	Model		1108365	1108367	1108338(a)	1108418(b)
	Rotation (drive end view)		Clockwise			
Motor control	Switch (solenoid, manual)		Solenoid			
	Starting procedure		Manual - Place gearshift lever in neutral & depress clutch Automatic - Place control lever in N or P position. Initial Start- Press accelerator to floor and release. Turn ignition to START, release as soon as engine starts.			
	Engagement type		Positive shift solenoid			
Motor Drive	Pinion meshes (front, rear)		Rear			
	Number of teeth	Pinion	9		9	
		Flywheel	153		168	
		Manual	153		168	
		Auto.	153		168	
	Flywheel tooth face width		Manual	.4010-.4130	.410-.420	
			Auto.	.4010-.4130	.410-.420	

(a) 1108427 with automatic transmissions

(b) 1108430 with automatic transmissions

AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (•)	
		L6 250	V8 307	V8 350	V8 396		
MODEL		155 HP	200 HP	250 HP	300 HP	360 HP	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	1115298	1115293	
	Amps	Engine stopped	4.0				
		Engine idling	1.8				
Distributor	Make		REFER TO PAGE NINE				
	Model						
	Cent'gal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)					
		Intermediate points deg. @rpm					
		Max. deg. @rpm					
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)					
		Intermediate points, deg. @ in. Hg.					
		Max. deg. in. Hg.					
	Breaker gap (in.)		.019				
	Cam angle (deg.)		31-34	29-31	28-30		
Breaker arm tension (oz.)		19-23	28-32				
Timing	Crankshaft deg. @rpm		Refer to page nine				
	Mark location		Torsional damper				
Spark Plug	Make		AC Spark Plug				
	Model		AC R46T	AC R45	AC R44	AC R43	AC R44T
	Thread (mm)		14				
	Tightening torque (lb. ft.)		25				
	Gap		.033-.038				
Cable	Conductor type		Linen core impregnated with electrical conducting material				
	Insulation type		Rubber with neoprene jacket				
	Spark plug protector		Neoprene				

ELECTRICAL – SUPPRESSION

Locations & type	Non-metallic high ignition cable
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AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (•)	
	L6 250	V8 307		V8 350		V8 396	
MODEL	155 HP	200 HP	250 HP	300 HP	360 HP	350 HP	

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Dial, with pointer
	Trip odometer (yes, no)	No
Charge indicator – type		Tell-tale
Temperature indicator – type		Tell-tale
Oil pressure indicator – type		Tell-tale
Fuel indicator – type		Electric gauge
Other		Refer to page 23
Windshield wiper	Type – Standard	Electric, two-speed
	Type – Optional	None
Windshield washer	Type – Standard	Push-button
	Type – Optional	None
	Type	Vibrator
Horn	Number used	Two
	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
No. of clutch driven discs	One			
Clutch facing	Material	Woven type asbestos		
	Outside & inside dia.	9.12x6.12	10.34x6.50	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		

AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (a)
MODEL	L6 250 155 HP	V8 307 200 HP	V8 350 250 HP 300 HP	V8 350 360 HP & V8 396 350 HP		

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANS.

Number of forward speeds		3	4			
Transmission ratios	In first	2.85	2.54	2.52	2.52	2.20
	In second	1.68	1.80	1.88	1.88	1.64
	In third	1.00	1.44	1.46	1.46	1.27
	In fourth	----	1.00	1.00	1.00	1.00
	In reverse	2.95	2.54	2.59	2.59	2.26
Synchronous meshing, specify gears		All forward speeds				
Shift lever location		Floor mounted				
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		
Gear ratio		
Lubricant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	Summer
	Winter	
	Extreme cold	

NOT AVAILABLE

AMA Specifications—Passenger Car

MAKE OF CAR	CAMARO	MODEL YEAR	1970	DATE ISSUED	2-70	REVISED (*)
MODEL	2-SPEED AUTOMATIC L6 250 V8 307		3-SPEED AUTOMATIC V8 307 & V8 350 250 & 300 HP		V8 350 360 HP V8 396 350 HP	

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Powerglide		Turbo Hydra-Matic	
Type describe	Torque converter with planetary gears			
Selector location	On column - Floor mounted in console, optional			
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-1.93 N-Neutral D-2.52-1.52-1.00 L ₂ -2.52-1.52 L ₁ -2.52	P-Park R-2.08 N-Neutral D-2.48-1.48-1.00 L ₂ -2.88-1.48 L ₁ -2.48
Max. upshift speed—drive range	64	67	*	
Max. kickdown speed—drive range	56	59	**	
Torque converter	Number of elements	3		
	Max. ratio at stall	2.10		
	Type of cooling (air, liquid)	Water		
	Nominal diameter	11.75	11.75	12.20
Lubricant	Capacity—refill (pt.)	6	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.	2.75 x 49.20 x .065
	Manual 4-speed trans.	Same as 3-speed
	Overdrive transmission	Not available
	Automatic transmission	Same as 3-speed

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

(Continued)

* Upshift: V8 307 (1-2 46; 2-3 74); V8 350 250 HP (1-2 46; 2-3 79); V8 350 300 HP (1-2 44; 2-3 72); V8 350 360 HP (1-2 44; 2-3 66); V8 396 (1-2 44; 2-3 67)

**Kickdown: V8 307 (2-1 37; 3-2 75); V8 350 (2-1 37; 3-2 75); V8 350 300 HP (2-1 32; 3-2 70); V8 350 360 HP (2-1 36; 3-2 62); V8 396 (2-1 30; 3-2 62)

AMA Specifications—Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (*)

MODEL _____

DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		---
Slip Yoke	Type		Yoke
	Number of teeth		27
	Spline O.D.		1.502
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)	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	SAE 80
	Summer	SAE 80
	Winter	SAE 80
		SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	3.08		3.36	3.07	3.31	3.73	4.10
No. of teeth	Pinion	15	12		11	14	13	11	10
	Ring gear	41	37		37	43	43	41	41
Ring Gear O.D.		8.125				8.875			

AMA Specifications—Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (e)

MODEL _____

DRIVE UNITS—WHEELS

Type & material	Short spoke disc; steel	
Rim (size & flange type)	Srd.	14x6; 14x7 "SS" models; 15 x 7 "Z28"
	Opt.	---
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	5 hex nuts, 7/16-20 UNF-2B

MODEL _____

DRIVE UNITS—TIRES

Standard	Size, load range and ply	L6 & Base V8 E78x14B; V8-350 (L65) & Rally Sport F78x14B F70x14B base for "SS"; F60x15B base for "Z28"	
	Type (bias, radial, etc.)	Fiberglass bias belted	
	Full rated Inflation Press. *	Front	Cold 24; Hot 30
		Rear	Cold 26; Hot 32
	Rev./Mile at 45 MPH	E78x14B-800; F78x14B-785; F70x14B-787; F60x15-793	
Optional	Size, load range and ply	F70x14B available as option on other than "SS" and Z28 models	

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 from service brakes	Type (internal or external)	---
	Drum diameter	---
	Lining size (length x width x thickness)	---

* Pressures shown are up to base vehicle load limit

AMA Specifications--Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

MODEL _____

BRAKES - SERVICE

Type (drum) or (disc & no. of pistons)			Disc-front; Drum-rear (a)		
Self adjusting (std., opt., N.A.)			Standard		
Special Valving	Type (proportion, delay, metering, other)		Metering and proportioning		
Power brake make & type (remote, int., etc.)	Std.	Opt.	Delco-Moraine vacuum power unit; integral		
Effective area (sq. in.) *			106.1		
Gross lining area (sq. in.) **			118.1		
Swept area (sq. in.) ***			332.4		
Front to Rear Effectiveness Relationship			---		
Drum	Diameter (nominal)	Front	---		
		Rear	9.5		
	Type and material		Composite; cast iron rim, steel web		
Rotor	Outer working diameter		11.00		
	Inner working diameter		7.18		
	Working width		1.00		
	Material & type (vented/solid)		Cast iron vented		
Wheel cylinder bore	Front		2.9375		
	Rear		.875		
Master Cylinder	Bore		1.125		
	displacement	Front %	69		
	distribution	Rear %	31		
Pedal arc ratio			3.82		
Line pressure at 100 lb. pedal load			1040		
Shoe Clearance	Front		Self adjusting		
	Rear		Self adjusting		
Brake lining	Bonded or riveted		Disc-riveted; Drum-bonded		
	Front Wheel	Material	Molded asbestos		
		Size (length x width x thickness)	5.40 x 1.93 x .46		
		Prim. or out-board			
		Second. or in-board	5.40 x 1.93 x .46		
		Segments per shoe	One		
	Rear Wheel	Material	Molded asbestos		
		Size (length x width x thickness)	9.01 x 2.0 x .17		
		Prim. or out-board			
		Second. or in-board	9.75 x 2.0 x .20		
		Segments per shoe			

* 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) Disc-single piston, floating caliper; Drum-single piston, duo servo

AMA Specifications—Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (e)

MODEL

STEERING

Manual (std., opt., NA)		Standard, energy absorbing steering column	
Power (std., opt., NA)		Optional	
Adjustable steering wheel (tilt, swing, other)	Type and description (std., opt., NA)		Tilt: tilt achieved with universally-jointed steering shaft base of steering wheel: 5 inch vertical travel range
			Optional
Wheel diameter	Manual		Oval 16.25 x 15.50
	Power		Same as manual
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	41.06
		Curb to curb (l. & r.)	38.86
	Inside rear	Wall to wall (l. & r.)	
		Curb to curb (l. & r.)	
Manual	Gear	Type	Semi-reversible, recirculating ball stud
		Make	Saginaw Steering
		Ratios	28:1 with V-8 engines except Z28; 24:1 with Z28 & L6 engines
		Overall	28.3:1 with L-6; 32.99:1 with V-8 except Z28; 18.76:1 with Z28
	No. wheel turns (stop to stop)		5.33:1 with L-6; 6.19:1 with V-8 except Z28; 4.10:1 with Z28
Power	Type (coaxial, linkage, etc.)		Integral with vane type pump
	Make		Saginaw Steering
	Gear	Type	Same as manual
		Ratios	16:1-12.4:1 variable ratio
		Overall	15.5:1-11.8:1; 14.3:1-10.9:1 for "Z28"
	Pump driven by		Crankshaft pulley
Linkage	No. wheel turns (stop to stop)		2.29
	Type		Parallelogram
	Location (front or rear of wheels, other)		Front
	Drag link (trans. or longit.)		None
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		10 to 11
	Bearings (type)	Upper	Ball stud with non-metallic bearings
		Lower	Ball stud with non-metallic and sintered iron bearings
		Thrust	None
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		0 to P2
	Camber (deg.)		N-1/4 to P 1-3/4
	Toe-in (outside track inches)		1/8 to 1/4
Steering spindle & joint type		Steering knuckle with spherical joints	
Wheel Spindle	Diameter	Inner bearing	1.2493-1.2498
		Outer bearing	.7492-.7497
	Thread size		3/4-20 NEF - 3 (modified)
	Bearing type		Taper roller

AMA Specifications—Passenger Car

MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (•)

MODEL _____

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 acc. squat control		Rear suspension geometry
Special provisions for car jacking		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.)	11.00 x 4.08; 126.03 x .628
	Spring rate (lb. per in.)	300 for L6 engines; 350 for V8 engines
	Rate at wheel (lb. per in.)	
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	Steel .6875; 1.00 on Z28

SUSPENSION – REAR

Type and description		Salisbury rear axle with multiple leaf springs (a)
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.)	56.0 x 2.80
	Spring rate (lb. per in.)	125
	Rate at wheel (lb. per in.)	125
	Mounting insulation type	Rubber bushed at shackle and hangers
	If leaf	No. of leaves One
Stabilizer	Type (link, linkless, frameless)	Compression
	Material	Link-Standard on Z27 & Z28 Steel
Track bar type		None

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MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (a)

MODEL _____

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional
	Vent windows	None
	Backlight or tailgate	None
Power seats (specify type as well as availability)		NA
Reclining front seat back (R-L or both)		NA
Front seat head restrainer (R-L or both)		Standard
Radios (specify type as well as availability)		Optional AM Push-button, AM- FM Push-button
Rear seat speaker		Optional
Power antenna		NA
Clock		Optional
Air conditioner (specify type and availability)		Optional - Four season, Manual control
Speed warning device		NA
Speed control device		NA
Ignition lock lamp		NA
Dome lamp		Standard
Glove compartment lamp		Optional
Luggage compartment lamp		Optional
Underhood lamp		Optional
Courtesy lamp		Optional
Map lamp		NA
Auto. trans. quad. lamp		Standard
Cornering light lamp		NA
Windshield antenna		Available with factory installed radio also with tinted windshield glass

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	26.3
		Lowest	--
	Tail	Highest	22.1
		Lowest	--
Distance from C/L of car to center of bulb	Sidemarker	Front	24.0
		Rear	19.75
	Headlamp	Inside	--
		Outside *	27.9
	Tail	Inside	--
		Outside	25.25
	Directional	Front	24.25
		Rear	25.25

* If single headlamps are used enter here.

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MAKE OF CAR CAMARO MODEL YEAR 1970 DATE ISSUED 2-70 REVISED (*)

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		
250 6 Cyl. Engine 2-Door Sport Coupe	1738	1428	3166	44.0	56.0	18.6	81.4	114.0	25.2
307 V8 Engine 2-Door Sport Coupe	1834	1444	3278	44.0	56.0	18.6	81.4	114.0	33.6
ACCESSORIES & EQUIPMENT DIFFERENTIAL WEIGHTS									
							REMARKS		
Rally Sport Package	+29	-2	+27						
Deluxe Interior	+11	+17	+28						
Power Brakes	+9	+1	+10				With standard front disc brakes		
Power Steering	+29	0	+29						
Radio,	+6	+2	+8						
Radio, AM/FM	+6	+2	+8						
250 Cu. In. 6 Cyl.	-1.	-4.	-5.				With Powerglide transmission		
307 Cu. In. V8	+6.	-2.	+4.				With Powerglide transmission		
	+27.	+6.	+33.				With Turbo Hydra-Matic transmission		
350 Cu. In. V8 (250 HP)	+48	+8.	+56.				With 4-speed transmission		
XXXXXXX & XXXXXXXXXX							XXXXXXX		
** +60.	+8.	+68.					With Turbo Hydra-Matic transmission		
350 Cu. In. V8 (300 HP)	+63	+30	+93				With 4-speed transmission		
	+84	+34	+118				With Turbo Hydra-Matic transmission		
350 Cu. In. V8 (360 HP)*	+64	+83	+147				With 4-speed transmission		
	+109	+96	+205				With Turbo Hydra-Matic transmission		
402 Cu. In. V8 (350 HP)**	+227	+46	+273				With 4-speed transmission		
(396 V8)	+272	+59	+331				With Turbo-Hydra-Matic transmission		
Air Conditioning	+100	+12	+112						
Floor Console	14	5	+19				With 3-speed transmission		
	7	3	+10				With 4-speed transmission		
	9	5	+14				With automatic transmission		
*Available as "Z-28" equipment only-includes additional body & chassis equipment.									
** Available as "SS" equipment only-includes additional body & chassis equipment.									

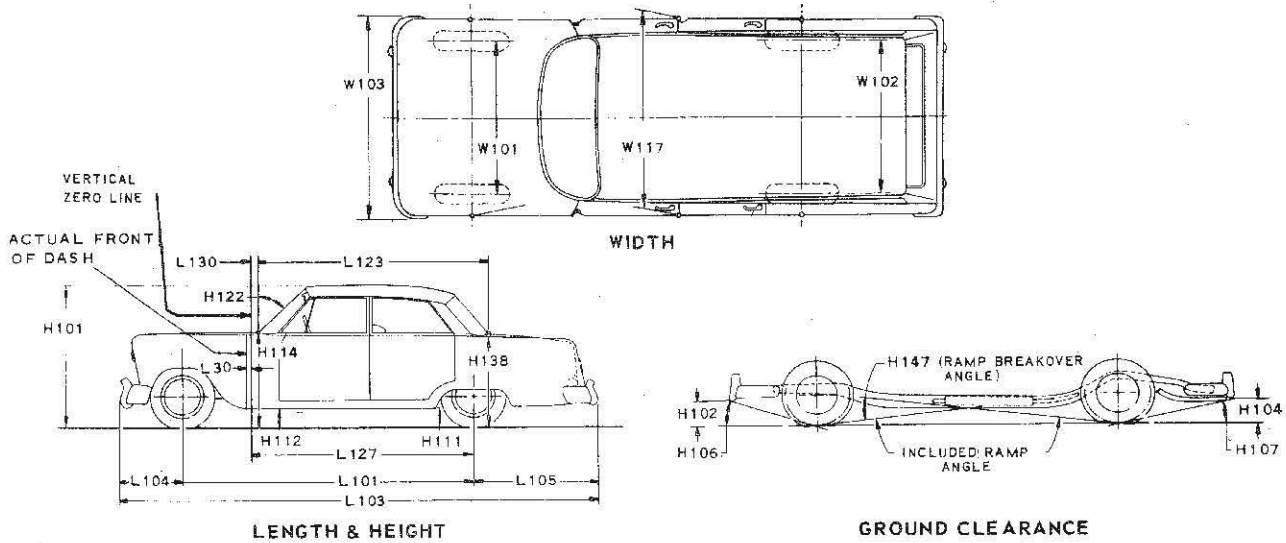
*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

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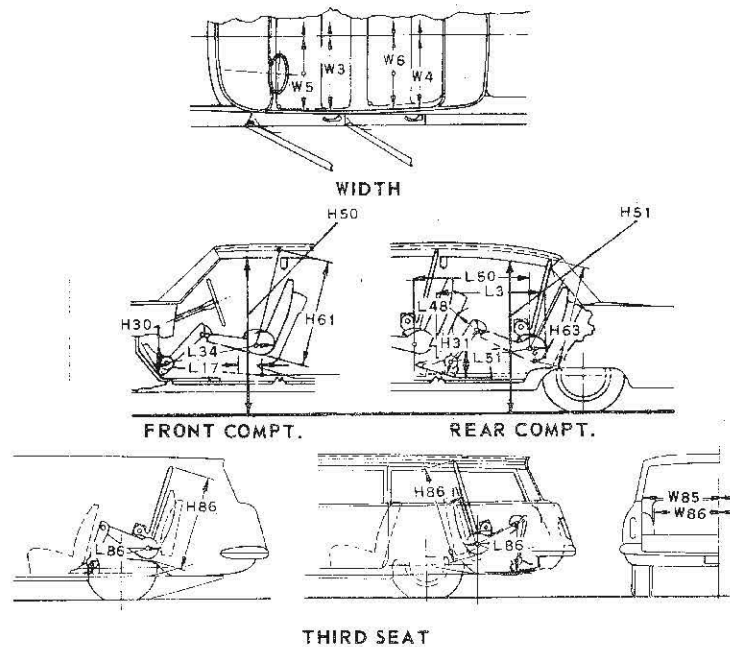
CAR AND BODY DIMENSIONS

KEY SHEET

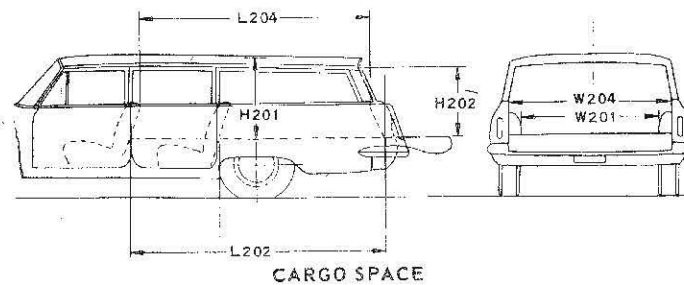
EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



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 wheelhouses at floor level.
- W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.
- H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.
- H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail- and liftgates fully open.
- V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

W4xL204xH201

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