

AMA Specifications—Passenger Car

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MANUFACTURER	BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME	BUICK (V-8 MODELS) SPECIAL DELUXE-SKYLARK CUSTOM-SPORT WAGON
MAILING ADDRESS	1051 E. HAMILTON AVENUE FLINT, MICHIGAN 48550	MODEL YEAR	1969
		ISSUED:	REVISED (●)

NOTES:

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

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BODY - TYPES AND STYLE NAMES -

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

<u>SERIES</u>	<u>BODY STYLE</u>	<u>MODEL DESIGNATION</u>
Special Deluxe	4 Door 2 Seat Station Wagon	43435
Skylark Custom	2 Door Hardtop Coupe	44437
	4 Door Hardtop Sedan	44439
	2 Door Convertible	44467
	4 Door Thin Pillar Sedan	44469
Sport Wagon	4 Door 2 Seat Station Wagon	44456
	4 Door 3 Seat Station Wagon	44466

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MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED _____ REVISED ^(*) _____

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.	SPECIAL DELUXE WAGON	SKYLARK CUSTOM			SPORT WAGON
		43435	44469	44439	44437	44467
WIDTH						
Track - Front	W101	59.0			59.4	
Track - Rear	W102	59.0				
Maximum overall car width	W103	75.6				
Body width at No. 2 pillar	W117	74.3	74.6			74.5
LENGTH						
Body "O" to front of dash	L 30	0"				
Wheelbase	L101	116.0		112.0	121.0	
Overall car length	L103	209.1	204.7	200.7	214.1	
Overhang - front	L104	37.5				
Overhang - rear	L105	55.53	51.2		55.62	
Body upper structure length	L123					
Body "O" line to C of rear wheel	L127	99.5			104.5	
Body "O" line to w/s cowl point	L130					
HEIGHT						
Passenger Distribution (front & rear)						
Trunk/Cargo load (lbs.)						
Overall height	H101	54.5	54.2		58.9	
Cowl height	H114	38.5			39.6	
Deck height	H138					
Rocker panel - front	H112	To ground	11.2	10.3	11.5	
		From front wheel C	27.8	27.2	28.1	
Rocker panel - rear	H111	To ground	11.3	10.0	12.0	
		From rear wheel C	25.8	27.2	28.1	
Windshield slope angle	H122	53.0	48.8	53.0		
GROUND CLEARANCE						
Bumper to ground - front	H102	12.08			14.39	
Bumper to ground - rear	H104	12.04			13.25	
Angle of approach	H106	25°30'	24°30'	25°30'		
Angle of departure	H107	15°15'	17°30'	15°15'		
Ramp breakover angle	H147	15°10'	12°20'	15°10'		
Min. running clearance (Specify)	H156	5.61 (Exh. Pipe)			6.44 (Exh. Pipe)	

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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.	SPECIAL DELUXE WAGON				SKYLARK CUSTOM		SPORT WAGON
		43435	44469	44439	44437	44467	44456	
FRONT COMPARTMENT								
Effective head room	H61	38.4	38.3					38.0
Max. eff. leg room - accelerator	L34	41.5	41.6					41.6
H Point to Heel point	H30	7.7	8.1					8.1
H Point travel	L17	4.7						4.8
Shoulder room	W 3	58.3						58.8
Hip room	W 5	59.8	59.4					59.4
Upper body opening to ground	H50	32.8						35.8
REAR COMPARTMENT								
H Point couple distance	L50	32.8						35.8
Effective head room	H63	38.3	37.3					39.9
Min. effective leg room	L51	34.8						37.8
H Point to Heel point	H31	10.6						11.1
Min. knee room	L48	2.3						4.7
Rear Compartment room	L 3	26.1	25.9					29.2
Shoulder room	W 4	57.4	57.0					57.4
Hip room	W 6	59.2	59.1					59.2
Upper body opening to ground	H51	34.8						37.8
LUGGAGE COMPARTMENT								
Usable luggage capacity	V 1	N.A.	13.5					N.A.
Liftover height	H195	N.A.	28.7					N.A.
Position of spare tire storage		VERTICAL		HORIZONTAL				VERTICAL
Method of holding lid open				TORSION RODS				(a)
STATION WAGON - THIRD SEAT								
Shoulder Room	W85	N.A.						44466
Hip room	W86	N.A.						57.7
Effective leg room	L86	N.A.						44.9
Effective head room	H86	N.A.						36.2
Seat facing direction		N.A.						37.9
								FORWARD
STATION WAGON - CARGO SPACE								
Cargo length at floor - front seat	L202	90.9						44466
Cargo length at belt - front seat	L204	79.9						(b) 96.1
Cargo width - Wheelhouse	W201	44.5						84.9
Opening width at belt	W204	49.6						44.5
Maximum cargo height	H201	31.5						48.5
Rear opening height	H202	28.6						34.1
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	83.6						28.4
								(c) 96.3

(a) DUAL ACTION TAILGATE - STANDARD

(b) - (44456) - 95.9

(c) - (44456) - 96.1

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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		
SPECIAL DELUXE	350	1-2 Bbl	9.0	230 @ 4400	350 @ 2400	Manual (3)	2.93(a)-(Std) No Econ. or Perf. Opt. 3.91 or 3.42 (S.C.O.)
	350	1-2 Bbl	9.0	230 @ 4400	350 @ 2400	Automatic	2.56-(Std) No Econ. 3.23(a)-(Perf) 3.91-(S.C.O.)
	350	1-4 Bbl	10.25	280 @ 4600	375 @ 3200	Automatic	2.73-(Std) 2.51-(Econ) 3.23(a)-(Perf) 3.91-(S.C.O.)
SKYLARK CUSTOM	350	1-2 Bbl	9.0	230 @ 4400	350 @ 2400	Manual (3)	2.93(a)-(Std) No Econ. or Perf. 3.91 or 3.42 (S.C.O.)
	350	1-2 Bbl	9.0	230 @ 4400	350 @ 2400	Automatic	2.56-(Std) No Econ. 3.23(a)-(Perf) 3.91-(S.C.O.)
	350	1-4 Bbl	10.25	280 @ 4600	375 @ 3200	Automatic	2.73-(Std) 2.56-(Econ) 3.23(a)-(Perf) 3.91-(S.C.O.)
SPORT WAGON	350	1-2 Bbl	9.0	230 @ 4400	350 @ 2400	Manual (3)	3.23-(Std) No Econ. or Perf. 3.91-(S.C.O.)
	350	1-2 Bbl	9.0	230 @ 4400	350 @ 2400	Automatic	3.23-(Std) 2.93-(Econ) 3.42-(Perf) 3.91 or 3.64 (S.C.O.)
	350	1-4 Bbl	10.25	280 @ 4600	375 @ 3200	Automatic	3.23-(Std) 2.93-(Econ) 3.42-(Perf) 3.91 or 3.64 (S.C.O.)
SPORT WAGON "400"	400	1-4 Bbl	10.25	340 @ 5000	440 @ 3200	Automatic (3-Speed)	3.23-(Std) 2.93 (Econ) 3.42(Perf) 3.91 or 3.64 (S.C.O.)

(a) Canadian built cars.

	<u>TRANS.</u>	<u>CARB.</u>	
Special Deluxe	Man. (3)	2 Bbl.	3.07 Std.
	Auto.	2 Bbl.	2.56 Std.
	Auto.	4 Bbl.	2.73 Std.
Skylark Custom	Man. (3)	2 Bbl.	Same as Special Deluxe
	Auto.	2 Bbl.	Same as Special Deluxe
	Auto.	4 Bbl.	Same as Special Deluxe

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MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469		SPORT WAGON 44456	

ENGINE - GENERAL

Type, no. cyls., valve arr.	V8 90° In-Head	
Bore and stroke (nominal)	3.800 x 3.850	
Piston displacement, cu. in.	350	
Bore spacing (℄ to ℄)	4.240	
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)	9.0	
Cylinder Head Material	Cast Iron	
Cylinder Block Material	Cast Iron	
Cyl. Sleeve-Wet, dry, none	None	
Number of mtg. points	Front	Two
	Rear	One
Engine installation angle	4° 37'	5° 9' 51"
Taxable horsepower	2.5	46.2
Publishing max. bhp* @ eng. RPM	230 @ 4400	
Publishing max. torque * (lb. ft. @ RPM)	350 @ 2400	
Recommended fuel regular - premium	Regular	

ENGINE - PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Cam Ground - Transverse Slot - Divorced Skirt •		
Weight (piston only) oz.			
Clearance (limits)	Top land	.027 - .036	
	Skirt	Top	.0008 - .0014
		Bottom	.0013 - .0029
Ring groove depth	No. 1 ring	.1930 - .1855	
	No. 2 ring	.1955 - .1880	
	No. 3 ring	.1955 - .1880	
	No. 4 ring	None	

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

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ENGINE - RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, coating, etc.	#1 - Cast Iron - Molybdenum #2 - Cast Iron - Lubrited
	Width	.077 - .078
	Gap	.010 - .020
Oil	Description - material, coating, etc.	SAE - 1070 Steel
	Width	.0235 - .0245
	Gap	.015 - .035
Expanders		Hump Type

ENGINE - PISTON PINS

Material	Extruded - SAE - 1018		
Length	3.060		
Diameter	.9394 - .9397		
Type	Locked in rod, in piston, floating, etc.	Pressed In Rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.0001 - .0004 (Selected)	
	In rod	.00075 - .00125 (Selected Press)	
Direction & amount offset in piston	.040 (Major Thrust Side)		

ENGINE - CONNECTING RODS

Material	Pearlitic Malleable Iron	
Weight (oz.)	22.8	
Length (center to center)	6.385	
Bearing	Material & Type	M400 Aluminum - Steel Backed - Removable
	Overall length	.737
	Clearance (limits)	.0002 - .0023
	End play	.006 - .014

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ENGINE — CRANKSHAFT

Material		Nodular Iron	
Vibration damper type		Rubber Absorption	
End thrust taken by bearing (No.)		Three	
Crankshaft end play		.003 - .009	
Main bearing	Material & type	M400 Except #5 is M100A Durex - All Steel Backed and Removable	
	Clearance	.0004 - .0015	
	Journal dia. and bearing overall length	No. 1	2.9995 x .864
		No. 2	2.9995 x .864
		No. 3	2.9995 x 1.057
		No. 4	2.9995 x .864
		No. 5	2.9995 x .864
		No. 6	None
No. 7		None	
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.000	

ENGINE — CAMSHAFT

Location		Above Crankshaft at Center of "V"	
Material		Cast Iron Alloy	
Bearings	Material	Steel Backed Babbitt	
	Number	Five	
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Sintered Iron
	Camshaft gear or sprocket material		Nylon Coated Aluminum
	Timing chain	No. of links	54
		Width	.875
		Pitch	.375

ENGINE — VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.55
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero

(Continued)

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ENGINE - VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	24	
		Closes (°ABC)	78	
		Duration - deg.	282	
	Exhaust	Opens (°BBC)	70	
		Closes (°ATC)	38	
		Duration - deg.	288	
Valve opening overlap		62		
Intake	Material		SAE - 1041 (b)	
	Overall length		5.024 - 4.994	
	Actual overall head dia.		1.880 - 1.870	
	Angle of seat & face		45°	
	Seat insert material		None	
	Stem diameter		(a)	
	Stem to guide clearance		.0015 - .0035 & .003 Max. Taper	
	Lift @ zero lash		.3766	
	Outer spring press. & length	Valve closed (lb.@in.)	75 ± 5 @ 1.727	
		Valve open (lb.@in.)	180 ± 7 @ 1.340	
	Inner spring press. & length	Valve closed (lb.@in.)	None	
		Valve open (lb.@in.)	None	
	Exhaust	Material		21-2 (b)
		Overall length		5.044 - 5.014
Actual overall head dia.		1.505 - 1.495		
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		.373 - .372 Tip End; .372 - .371 Head End		
Stem to guide clearance		.0015 - .0035 Tip End; .0025 - .0045 Head End		
Lift @ zero lash		.3840		
Outer spring press. & length		Valve closed (lb.@in.)	75 ± 5 @ 1.727	
		Valve open (lb.@in.)	180 ± 7 @ 1.340	
Inner spring press. & length		Valve closed (lb.@in.)	None	
		Valve open (lb.@in.)	None	

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	Splash & Nozzle
	Cylinder walls	Splash & Nozzle

(Continued)

(a) .3725 - .0005 - Max. allowable taper to be .0003 with smallest dia. @ head end.

(b) Aluminized face & chrome flashed stem.

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ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. engine rpm)	37 @ 2400	
Oil press. sending unit (elect. or mech.)	Electrical	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full Flow	
Filter replacement (element, complete)	Element and Can	
Capacity of c/case, less filter-refill (qt.)	Four	
Oil grade recommended (SAE viscosity and temperature range)	Anticipated Lowest Temp.	Use SAE Viscosity
	Above 32° F	10W-30, 20W or 20
	Below 32° F to Zero F	10W-30, 10W-40, 10W
Engine Service Reqmt. (MM, MS, etc.)	Below Zero F 5W-20, 5W-30, 5W Passing Car Makers Test G.M. 6041M	

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with Cross-Over	
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow	One Reverse Flow and Resonator
Exhaust pipe dia. (O.D., wall thick.)	Branch	2.00 - .076
	Main	2.25 - .076
Tail pipe dia. (O.D. & wall thickness)	2.00 - .060	

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Closed Induction System None
Control Unit	Make and model	A.C.
	Location	Intake Manifold (Lifter Cavity) - Rear
	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 Normally with Additional Discharge Into Air Cleaner Under Excessive Blow-By Conditions
	Air inlet (breather cap, carburetor air cleaner, other)	Carburetor Air Cleaner
	Flame arrestor (screen, check valve, other)	Check Valve and Screen

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MODEL	SPECIAL	SKYLARK			
	DELUXE	CUSTOM			SPORTWAGON
	43435	44469			44456

ENGINE - EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Combustion Control	
Air Injection Pump	Type	Not Used	
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
	Filter (describe)		
Air Injection System	Air distribution (head, manifold, etc.)		
	Point of entry		
	Injection tube I.D.		
	Check valve type		
	Backfire protection (type)		
Carburetor	Make	Rochester	
	Model	2GV	
	Barrel size		
	Idle speed	Drive	600
		Neutral	700 (Manual)
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)	None	
	Make	Delco - Remy	
	Model	1111938	
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	850
		Intermed. points deg. @ rpm	21° @ 1800
		Max. deg. @ rpm	32° @ 4600
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg) 7" Hg.
		Intermed. points deg. @ in. Hg 16 @ 15
		Max. deg. @ in. 19.5 @ 25
	Vacuum Source	Intake Manifold Ported to Atmosphere at Idle	
Timing - Crank degrees @ rpm	0° BTC		
Cooling System	Same As Standard		
Exhaust System	Same As Standard		

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MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456

ENGINE - FUEL SYSTEM		(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)		
Induction type: Carburetor, fuel injection, supercharger.		Carburetor		
Fuel Tank	Refill capacity (U.S. gals.)	Approximately 20		
	Filler location	(a)	Rear (a)	
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Engine		
	Pressure range (Static)	4.25 - 5.75 psi @ Outlet (b)		
Vacuum booster (std., optional, none)		None		
Fuel Filter	Type	Pleated Paper	Woven Plastic	
	Locations	Carb. Inlet	Tank	
Carburetor	Choke type	Manifold Remote Automatic		
	Intake manifold heat control (exhaust or water)	Exhaust		
	Air cleaner type	Standard	Oiled Paper Element	
		Optional	H. D. Dual Stage Element	
	Idle speed (spec. neutral or drive)	Manual	700 In Neutral (A/C Same with A/C "Off")	
Automatic		600 (Drive) (A/C Same with A/C "Off")		
	Idle A/F mix.	14.5		

CARBURETOR SUPPLEMENTARY INFORMATION						
Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
Special Deluxe	350	Manual (3)	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	4 MV	1-4 Bb1	
Skylark Custom	350	Manual (3)	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	4 MV	1-4 Bb1	
Sportwagon	350	Manual (3)	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	2 GV	1-2 Bb1	
	350	Automatic	Rochester	4 MV	1-4 Bb1	

(a) Left Rear Quarter Panel

(b) 5.5 - 7.0 at Outlet With V.R. Blocked (A/C Cars)

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MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469	SPORTWAGON 44456

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		15 psi	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (°F)	190°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	10	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
Bearing type		Double Row	
By-pass recirculation type (inter., ext.)		External	
Radiator core type (cellular, tube and fin, other)		Cross - Flow	
Cooling system capacity	With heater (qt.)	13.5	
	Without heater (qt.)	12.62	
	Opt. equipment-specify (qt.)	13.52	
Water jackets full length of cyl. (yes, no)		No	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	Upper	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One Molded
		Inside diameter	.62
Fan	Number of blades & spacing		Std. 4 (65 x 115°) A/C-7
	Diameter		18.0"
	Ratio-fan to crankshaft rev.		Std. .85 A/C-1.15
	Fan cutout type		None (Thermo Clutch with Optional A/C)
	Bearing type		Single Row Ball
* Drive belts (indicate belt used by letter)	Fan		A (Std) D (A/C)
	Generator or alternator		A (Std) D (A/C)
	Water Pump		A
	Power Steering		B
	Air Conditioning		C

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°							
Nominal length (SAE)	45.5	52.5	60.66	46.0							
Width	.38	.47	.47	.38							

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MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469	SPORTWAGON 44456

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco #R-58
	Voltage Rtg. & Total Plates		12-66
	SAE Designation & Amp. Hr. Rtg.		9MJ3F-61
	Location		Right Front Engine Compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		1100761 (a)
	Type and rating		Diode Rectified Alternator (37 amps) (a)
	Output at engine idle (neutral)		15 amps (Min.) (b)
	Ratio—Gen. to Cr/s rev.		2.29 (c)
Regulator	Make		Delco-Remy
	Model		1119515
	Type		Voltage Control
	Cutout relay	Closing voltage generator rpm	None
		Reverse current to open	None
	Regu- lated	Voltage	13.6 - 14.4 @ 125°
		Current	None
	Voltage test conditions	Temperature	None
Load		Run 15 Min. @ 10 Amps Max.	
	Other	Battery Must Be in Circuit	

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make		Delco-Remy
	Model		1108391
	Rotation (drive end view)		Clockwise
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Manual - Place gear shift lever in "Neutral", depress clutch pedal. Auto. - Place selector lvr. in "Neutral" or "Park". NOTE: Turn ignition key clockwise.
Motor Drive	Engagement type		Solenoid with Over-Running Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	Manual
			Auto.
Flywheel tooth face width	Manual	.375	
	Auto.	.375	

(a) 1100774 with A/C (55 amps)

(b) 20 amps (Min.) with A/C

(c) 2.66 with A/C

AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469	SPORTWAGON 44456

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		1115247
	Amps	Engine stopped	3.8 @ 12.6 V
		Engine idling	2.3 @ 12.6 V
Distributor	Make		Delco-Remy
	Model		1111474
	Cent'fgal adv. in c/shaft degrees @ engine rpm (nominal)	Start (rpm)	850
		Intermediate points deg. @ rpm	21° @ 1800
		Max. deg. @ rpm	32° @ 4600
	Vacuum adv. in c/shaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6 - 8
		Intermediate points, deg. @ in. Hg.	16 @ 15
		Max. deg. in. Hg.	19.5 @ 25
	Breaker gap (in.)		.013 - .019
	Cam angle (deg.)		30 ± 1
Breaker arm tension (oz.)		19 - 23	
Timing	Crankshaft deg. @ rpm	0° @ 550	
	Mark location	Crankshaft Flange	
Spark Plug	Make		AC
	Model		R 45TS
	Thread (mm)		14
	Tightening torque (lb. ft.)		15
	Gap		.030
Cable	Conductor type		2000 ohms per foot (Resistance Cable)
	Insulation type		Neoprene (With Inner Braid)
	Spark plug protector		Hypalon Boot

ELECTRICAL - SUPPRESSION

Locations & type	(a)
------------------	-----

- (a) TVRS Cable to Plugs & Coil
 Ground Strap, Engine to Dash
 By-Pass Condensers - Delcotron, Ignition Coil & Regulator.
 Resistor Spark Plugs.

AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED _____ REVISED (e)

	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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MODEL _____

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Mechanical (Eddy Current)
	Trip odometer (yes, no)	No
Charge indicator – type		Indicator Light
Temperature indicator – type		"Hot" Only
Oil pressure indicator – type		Pressure Switch - Indicator Light
Fuel indicator – type		Electrical
Other		
Windshield wiper	Type – Standard	Electric (Two Speed)
	Type – Optional	None
Windshield washer	Type – Standard	Electric Engagement Mech. Piston Pump
	Type – Optional	None
Horn	Type	Solenoid
	Number used	Two
	Amp draw (each)	4.5 - 5.5

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Borg and Beck (Dry)
Type pressure plate springs		Belleville Spring
Total spring load (lb.)		1900 - 2100
No. of clutch driven discs		One
Clutch facing	Material	Woven
	Outside & inside dia.	10.4 - 6.5
	Total eff. area (sq. in.)	103.5
	Thickness	.135
	Engagement cushioning method	Spring
Release bearing	Type & method of lubrication	Ball (Sealed)
Torsional damping	Methods: springs, friction material	Springs

AMA Specifications—Passenger Car

MAKE OF CAR		BUICK		MODEL YEAR		1969		DATE ISSUED		REVISED (*)	
MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469		SPORTWAGON 44456					
DRIVE UNITS – TRANSMISSIONS											
Manual 3-speed (std. or opt.)				Standard							
Manual 4-speed (std. or opt.)				Not Available							
Manual with overdrive (std. or opt.)				Not Available							
Automatic (std. or opt.)				Optional							
DRIVE UNITS – MANUAL TRANS.											
Number of forward speeds				Three							
Transmission ratios	In first			2.54							
	In second			1.50							
	In third			1.00							
	In fourth			- - -							
	In reverse			2.63							
Synchronous meshing, specify gears				All Forward Speeds							
Shift lever location				Steering Column							
Lubricant	Capacity (pt.)			3.375							
	Type recommended			Multi-Purpose Gear Lubricant (a)							
	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)				Not Available							
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											

(a) MIL-L-2105B

AMA Specifications—Passenger Car

MAKE OF CAR <u>BUICK</u>	MODEL YEAR <u>1969</u>	DATE ISSUED _____	REVISED (*) _____
MODEL _____	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Super Turbine (Optional)							
Type describe	Two Speed with Torque Converter		Three Speed with Torque Converter					
Selector location	Steering Column							
List gear ratios Selector Pattern and indicate which are used in each selector position	<u>D.</u>	<u>L.</u>	<u>R.</u>	<u>D</u>	<u>L²</u>	<u>L¹</u>	<u>REV</u>	
	1st -- 1.765 --			1ST	2.52	2.52	2.52	1.93
	2nd 1.000			2ND	1.52	1.52	----	----
Max. upshift speed—drive range (Nom.)	71		(a) 47	(b) 80		(a) 37	(b) 64	
Max. kickdown speed—drive range (Nom.)	66		(c) 38	(d) 70		(c) 30	(d) 55	
Torque converter	Number of elements		Three					
	Max. ratio at stall		2.25		2.05			
	Type of cooling (air, liquid)		Water					
Lubricant	Nominal diameter		11.75					
	Capacity—refill (pt.)		19.0 Total—5.0 Drain		20.0 Total		6.0 Drain	
	Type recommended		(e)					
Special transmission features								

DRIVE UNITS – PROPELLER SHAFT

Number used	One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)	Exposed	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 x 60.00 x .065
	Manual 4-speed trans.	Not Available
	Overdrive transmission	Not Available
	Automatic transmission	3.25 x 60.00 x .065

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

(Continued)

- (e) "DEXRON" [®] Automatic Transmission Fluid.
- (a) 1-2 Shift
 - (b) 2-3 "
 - (c) 2-1 "
 - (d) 3-2 "

AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469	SPORTWAGON 44456

DRIVE UNITS – PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Slip Yoke	Type	Male Slip Yoke at Transmission Where Primary Slip Is Taken
	Number of teeth	24 O.D. Fit - 27 P.D. Fit
	Spline O.D.	1.1750-1.1745 - Manual Trans. 1.166-1.1150 - Auto. Trans.
Universal joints	Make and Mfg. No.	Saginaw
	Number used	2
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U - Bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		
Drive taken through (torque tube or arms, springs)		Arms
Torque taken through (torque tube or arms, springs)		Arms

DRIVE UNITS – AXLE

Type (front, rear)	Rear		
Description	Salisbury Hypoid - Semi-Floating		
Limited Slip differential, type	Optional		
Drive Pinion Offset	1.750		
No. of differential pinions	2		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Collapsible Spacer		
Wheel bearing type	Tapered Roller Ball		
Lubricant	Capacity (pt.)	2.90	
	Type recommended	MIL-L-2105B	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	(a)	(b)	(c)	(d)	(e)	(f)	(g)
	2.93	3.91	3.42	2.56	3.23	3.64	2.73
No. of Pinion	14	11	12	16	13	11	15
teeth Ring gear	41	43	41	41	42	40	41
Ring Gear O.D.	8.500						

- (a) Std. Manual (3) - Coupes & Sedans. Std. Automatic - Wagons & Economy Ratio on Sportwagon - Auto.
- (b) S.C.O. on All
- (c) Perf. On Sportwagon - Auto.
- (d) Std. Automatic - Coupes & Sedans with 2 Bbl. Carb.-Economy (Coupes-Sedans)-4 Bbl.
- (e) Std. Manual (3) - All Wagons. Perf, with Automatic - Sedans, Coupes, Wagons. Std. on Automatic - Sportwagon with 2 Bbl.
- (f) S.C.O. Automatic - Sportwagon
- (g) Std. Automatic - Coupes, Sedans - 2 Bbl A/C. Economy on Wagon with Auto. and S.C.O. (coupes-Sedans)-2 Bbl. less A/C

AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (e)
MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469	SPORTWAGON 44456

DRIVE UNITS - WHEELS

Type & material		Disc Steel		
Rim (size & flange type)	Std.	14 x 6.00 "JK"	14 x 5.00 "J"	14 x 6.00 "JK"
	Opt.	None		
Attachment	Type (bolt or stud)	Stud		
	Circle diameter	4.750		
	Number and size	Five - 4375-20		
MODEL		SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44455

DRIVE UNITS - TIRES

Standard	Size, ply rating, & ply	8.25 - 14 (2-Ply with 4-Ply Rating)	7.75-14 (4-Ply Rating)	8.55-14 (2 Ply with 4-Ply Rating (a))	
	Type (bias, radial, etc.)	Bias Angle			
	Full rated Inflation Press.	Front	26	24	26
		Rear	32	26	32
	Rev./Mile at 50 MPH	785		790	
Optional	Size, ply rating, & ply	8.55-14 205R14Radial Ply 8.25-14 4-Ply Nylon (Export)	8.25-14 7.75-14 4-Ply Nylon (Export) F70-14 (Export)	8.55 - 14 (4-Ply with 8-Ply Rating) 8.55-14 4-Ply Nylon (Export)	

BRAKES - PARKING

Type of control		Step-On with Hand Release
Location of control		Left Side At Cowl Panel
Operates on		Rear Shoes
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

(a) 8.55 - 14 (2-Ply with 4-Ply Rating) Standard on 44466

AMA Specifications—Passenger Car

MAKE OF CAR		BUICK		MODEL YEAR	1969	DATE ISSUED	REVISED (e)	
MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469		SPORTWAGON 44456		
BRAKES—SERVICE								
Type (drum) or (disc & no. of pistons)				Drum (a)				
Self adjusting (std., opt., N.A.)				Standard				
Special Valving	Type (proportion, delay, metering, other)							
Power brake make & type (remote, int., etc.)		Std.		No				
		Opt.		Delco - Moraine (Int. Vac. Susp.)				
Effective area (sq. in.) *				152.0		159.6		
Gross lining area (sq. in.) **				158.1		175.6		
Swept area (sq. in.) ***				268.6		298.4		
Front to Rear Effectiveness Relationship				62.4 Front (Based on Wheel Cyl. Size Only)				
Drum	Diameter (nominal)	Front		9.495 - 9.505				
		Rear		9.495 - 9.505				
Type and material		Composite Cast Iron			(b)			
Rotor	Outer working diameter							
	Inner working diameter							
	Working width							
	Material & type (vented/solid)							
Wheel cylinder bore	Front		1.125					
	Rear		.875		1.000			
Master Cylinder displacement distribution	Bore		1.000					
	Front	Rear		59.0				
Rear		Front		41.0				
	Pedal arc ratio		6.46 (c)					
Line pressure at 100 lb. pedal load				830 psi (d)				
Shoe Clearance	Front		.015					
	Rear		.015					
Brake lining	Bonded or riveted			Riveted				
	Front Wheel	Material			Extruded Molded			
		Size (length x width x thickness)	Prim. or out-board		7.57 X 2.50 X .196 (Gross) - .096 (Net)			
			Second. or in-board		9.83 X 2.50 X .265 (Gross) - .165 (Net)			
		Segments per shoe			One			
	Rear Wheel	Material			Extruded Molded			
		Size (length x width x thickness)	Prim. or out-board		7.57 X 2.00 X .196 (G) - .096 (NET)		7.57X2.50X.196 (G) .096 (NET)	
			Second. or in-board		9.83 X 2.00 X .265 (G) - .165 (NET)		9.83X2.50X.265 (G) .165 (NET)	
Segments per shoe			One					

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes. (Width of lining contact width for each brake x its contact circumference.)

(a) Power Disc Fronts - Optional

(b) Fronts - Finned Aluminum with Cast Iron Liners. Rears - Composite C. I.

(c) 3.44 with Optional Power Brakes

(d) 1130 psi with 30# Pedal Load with Optional Power Brakes

AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
		SPECIAL	SKYLARK		
MODEL		DELUXE	CUSTOM	SPORTWAGON	
		43435	44469	44456	

STEERING

Manual (std., opt., NA)		Standard		
Power (std., opt., NA)		Optional		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt (N.A. with Manual Trans.)		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	16.0		
	Power	16.0		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)	41.55 - 42.40	43.84 - 46.80
		Curb to curb (l. & r.)	38.38 - 38.96	40.61 - 43.73
	Inside rear	Wall to wall (l. & r.)	21.44 - 22.48	23.38 - 26.76
		Curb to curb (l. & r.)	22.12 - 23.12	24.04 - 27.46
Manual	Gear	Type	Recirculating Ball - Nut	
		Make	Saginaw	
	Ratios	Gear	24.0	
		Overall	28.6	
No. wheel turns (stop to stop)		5.56		
Power	Type (coaxial, linkage, etc.)		In-Line Rotary Valve	
	Make		Saginaw	
	Gear	Type	Recirculating Ball - Nut, Integral with Power Piston	
		Ratios	Gear	17.5
	Overall		20.9	
	Pump driven by		Belt	
No. wheel turns (stop to stop)		4.06		
Linkage	Type		Parallelogram	
	Location (front or rear of wheels, other)		Front	
	Drag link (trans. or longit.)		Transverse	
	Tie rods (one or two)		Two	
Steering Axis	Inclination at camber (deg.)		8° 0' @ 1° 0'	
	Bearings (type)	Upper	Ball Joint Suspension Used	
		Lower	Ball Joint Suspension Used	
		Thrust	Ball Joint Suspension Used	
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)	- 1/2° ± 1/2° (Curb Height)		
	Camber (deg.)	+ 1/2° ± 1/2° (Curb Height)		
	Toe-in (outside track inches)	.12 to .25 (Curb Height)		
Steering spindle & joint type		Ball Joint		
Wheel Spindle	Diameter	Inner bearing	1.2498/1.2493	
		Outer bearing	.7498/ .7493	
	Thread size		.75 - 20 NEF	
	Bearing type		Tapered Roller	

AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1969	DATE ISSUED	REVISED (a)
MODEL		SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456	

SUSPENSION - GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling	Not Available	Optional
Provision for brake dip control	Yes	
Provision for acc. squat control	Yes	
Special provisions for car jacking	No	
Shock absorber front & rear	Type	Direct
	Make	Delco
	Piston dia.	1.00
Other special features	None	

SUSPENSION - FRONT

Type and description		Coil Spring & Ball Joint		
Spring	Type	Coil		
	Material	SAE - 9260 Steel		
	Size (coil design height & I.D. bar length x dia.)	11.31 Design Ht. - 3.60 I.D.		
	Spring rate (lb. per in.)	137 x .618	127 x .603	145 x .643
	Rate at wheel (lb. per in.)	310		
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	.970(a)	.875(a)	1.00(a)

SUSPENSION - REAR

Type and description		Coil Springs		
Drive and torque taken through		Control Arms		
Spring	Type	Coil		
	Material	SAE - 9260 Steel		
	Size (length x width, coil design height & I.D.; bar length & dia.)	7.62 Design Ht. - 5.50 I.D.		
	Spring rate (lb. per in.)	132 x .610	104 x .530	137 x .630
	Rate at wheel (lb. per in.)	138	106	150
	Mounting insulation type	Rubber		
If leaf	No. of leaves	Not Used		
	Shackle (comp. or tens.)	Not Used		
Stabilizer	Type (link, linkless, frameless)	Not Used		
	Material	Not Used		
Track bar type		Not Used		

(a) 1070 Steel

AMA Specifications—Passenger Car

MAKE OF CAR <u>BUICK</u>	MODEL YEAR <u>1969</u>	DATE ISSUED	REVISED (*)
	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456

FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	Perimeter (Separate)
---	----------------------

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors			Front
	Rear doors			Front
Type of finish (lacquer, enamel, other)		Acrylic Lacquer		
Hood counterbalanced (yes, no)		Yes		
Hood release control (internal, external)		External		
Vehicle Ident. No. location		Left Side of Upper Instrument Panel		
Engine No. location		Top of Left Cylinder Block at Front		
Theft protection - type		Ignition Switch Locks Steering Shaft		
Vent window control method (crank, friction pivot)	Front	Crank		
	Rear	-----		
Seat cushion type	Front	Zig - Zag		
	Rear	Zig - Zag		
	3rd seat	-----		
Seat back type	Front	Zig - Zag		
	Rear	Zig - Zag		
	3rd seat	-----		
Windshield glass type (i.e., single curved - laminated plate)		Compound Curved (Laminated Type)		
Side glass type (i.e., curved - tempered plate)		Curved (Tempered Plate)		
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Single Curved (Tempered Plate)		
Windshield glass exposed surface area		1249.6		
Side glass exposed surface area		2419.9	1181.4	2680.7
Backlight glass exposed surface area		757.0	895.1	757.0
Total glass exposed surface area		4426.5	3326.1	4687.3

AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED _____ REVISED (e) _____

	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Optional		
	Vent windows	Not Available		
	Backlight or tailgate	Optional	Not Available	Optional
Power seats (specify type as well as availability)		Optional (4-Way)		
Reclining front seat back (R-L or both)		Not Available	Optional (Coupes)	Not Available
Front seat head restrainer (R-L or both)		Standard		
Radios (specify type as well as availability)		Sonomatic or AM/FM		
Rear seat speaker		Optional		
Power antenna		Opt. (Exc. Wagon & Conv.)		
Clock		Optional		
Air conditioner (specify type and availability)		Optional		
Speed warning device		Optional		
Speed control device		Optional with Automatic Transmission		
Ignition lock lamp		None		
Dome lamp		Standard		
Glove compartment lamp		Optional	Standard	Standard
Luggage compartment lamp		Optional		
Underhood lamp		Dealer Item		
Courtesy lamp		Optional		Standard
Map lamp		Not Available		
Auto. trans. quad. lamp		None (Except with Console)		
Cornering light lamp		Not Available		
Emergency Flasher		Standard		

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Lamp	Front		Rear	
		Highest	Lowest	Lowest	
Height above ground to center of bulb or marker	Headlamp	Highest	26.47	27.17	
		Lowest	-----	27.15	
	Tail	Highest	20.94	32.50	
		Lowest	-----		
Sidemarker	Front	22.31		23.06	
	Rear	20.29	20.61	22.68	
Distance from C/L of car to center of bulb	Headlamp	Inside	25.73		
		Outside *	32.11		
	Tail	Inside	20.78	37.96	
		Outside	27.96	-----	
	Directional	Front	29.42		
		Rear	14.18	37.96	

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED _____ REVISED (e) _____

ESTIMATED 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		
SPECIAL DELUXE									
43435	1875	1997	3872	47.78	52.22	20.93	79.07	122	28
SKYLARK-CUSTOM									
44437	1871	1620	3491	52.30	47.70	19.12	80.88	122	28
44439	1942	1696	3638	52.15	47.85	19.17	80.83	122	28
44467	1896	1658	3554	52.10	47.90	19.19	80.81	122	28
44469	1877	1667	3544	51.75	48.25	19.32	80.68	122	28
SPORTWAGON									
44456	1912	2281	4193	45.27	54.73	22.09	77.91	122	28
44466	1961	2338	4299	45.29	54.71	22.08	77.92	122	28
Accessories & Equipment Differential Weights									
									Remarks
Engine, V8-(4 bbl)	7.91	----	7.91						
Engine, V8-400 Opt	82.00	14.00	96.00						Sportwagon
Transmission-S.T.	5.18	1.92	7.10						Special Del & Skylark
Transmission-S.T.	4.08	1.51	5.59						Sportwagon
Transmission-CBC									Skylark
Transmission-CBC									Sportwagon
Power Steering	29.45	----	29.45						
Power Brakes	9.48	----	9.48						
Disc. Brakes-Front	19.27	3.54	22.81						Special Deluxe
Disc. Brakes-Front	24.77	11.79	36.56						Skylark
Disc. Brakes-Front	29.36	3.54	32.90						Sportwagon
Radio, Sonomatic	5.00	2.00	7.00						
Radio, AM/FM	6.00	2.00	8.00						
Tires, Whitewall	1.80	2.71	4.51						Special Deluxe
Tires, Whitewall	2.36	3.54	5.90						Skylark
Tires, Whitewall	3.56	5.34	8.90						Sportwagon
Air Conditioner	113.00	----	113.00						Special Del & Skylark
Air Conditioner	114.00	----	114.00						Sportwagon
Power Seat-4-Way	10.00	9.50	19.50						
Tilt Strg. Wheel	1.68	1.03	2.71						
Power Windows	10.51	10.99	21.50						

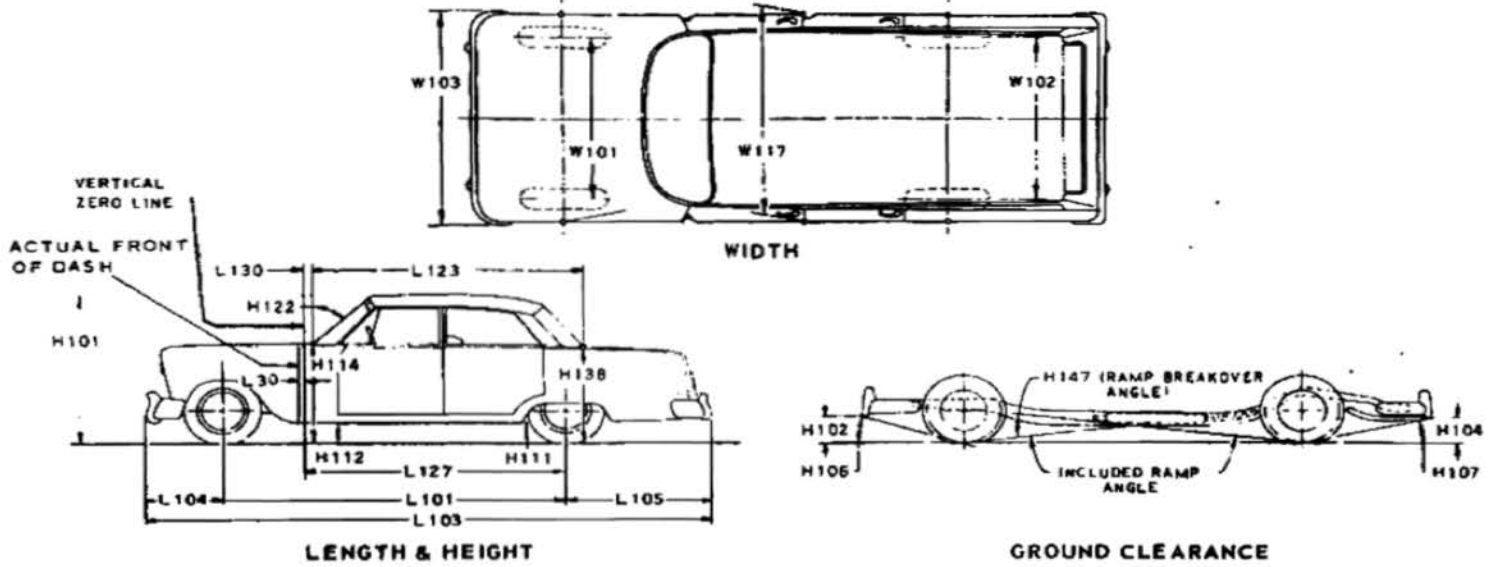
*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

AMA Specifications—Passenger Car

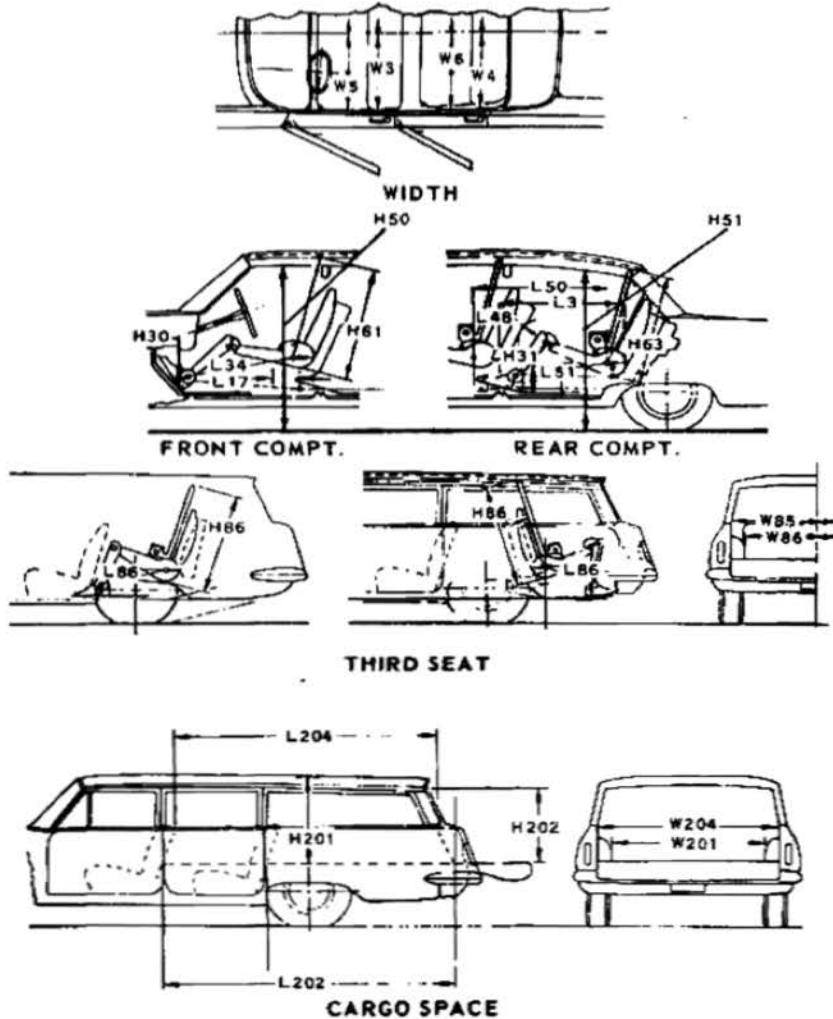
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



INTERIOR CAR AND BODY DIMENSIONS



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 of #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 wheelhoussings 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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