

# 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-SPORTWAGON
MAILING ADDRESS	1051 E. HAMILTON AVENUE FLINT, MICHIGAN 48550	MODEL YEAR	1969
		ISSUED:	Sept. 4, 1968
		REVISED (e)	1-13-69

**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.

### TABLE OF CONTENTS

Car & Body Dimensions .....	1,2	Drive Units .....	14	Suspensions .....	21
Engine - Mechanical .....	4	Brakes.....	18, 19	Weights .....	24
Electrical .....	12	Steering .....	20	Index .....	27

**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
Sportwagon	4 Door 2 Seat Station Wagon	44456
	4 Door 3 Seat Station Wagon	44466

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a)

## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for:  
4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	SPECIAL DELUXE WAGON				SKYLARK		CUSTOM	SPORT WAGON
		43435	44469	44439	44437	44467	44456		
<b>WIDTH</b>									
Track - Front	W101	59.0						59.4	
Track - Rear	W102	59.0						59.0	
Maximum overall car width	W103	75.6						75.6	
Body width at No. 2 pillar	W117	74.5						74.5	
<b>LENGTH</b>									
Body "O" to front of dash	L 30	0.0						0.0	
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						37.5	
Overhang - rear	L105	55.6		51.2			55.6		
Body upper structure length	L123	99.5						104.5	
Body "O" line to $\phi$ of rear wheel	L127	99.5						104.5	
Body "O" line to w/s cowl point	L130	99.5						104.5	
<b>HEIGHT</b>									
Passenger Distribution (front & rear)		2 - 2						2 - 2	
Trunk/Cargo load (lbs.)		300		200			300		
Overall height	H101	54.6		54.1		53.4		53.7	
Cowl height	H114	38.3						38.3	
Deck height	H138	8.6						8.6	
Rocker panel - front	To ground	8.6						8.6	
	From front wheel $\phi$	27.2						27.2	
Rocker panel - rear	To ground	8.4						8.4	
	From rear wheel $\phi$	27.2						27.2	
Windshield slope angle	H122	53.1						53.1	
<b>GROUND CLEARANCE</b>									
Bumper to ground - front	$\phi$ H102	12.4						12.4	
Bumper to ground - rear	H104	11.9						11.9	
Angle of approach	H106	25.5°						25.5°	
Angle of departure	H107	12.8		17.8		17.2		15.5	
Ramp breakover angle	H147	12.3						12.3	
Min. running clearance (Specify)	H156	5.7(a)		5.4(a)		5.5(a)		5.7(Exh. Pipe)	

(a) Front Suspension to Ground.

Pipe)

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a) 9-30-68

## 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	
<b>FRONT COMPARTMENT</b>								
Effective head room	H61	38.4	38.3	37.5	38.3	38.0		
Max. eff. leg room - accelerator	L34	41.5	41.7			41.6		
H Point to Heel point	H30	7.7	8.1			8.1		
H Point travel	L17	4.7	4.8			4.8		
Shoulder room	W 3		58.3			58.2		
Hip room	W 5	59.8	59.4			59.4		
Upper body opening to ground	H50		49.0	49.5	48.7	48.8		
<b>REAR COMPARTMENT</b>								
H Point couple distance	L50	32.8			30.6	35.8		
Effective head room	H63	38.3	37.3	36.3	37.0	39.9		
Min. effective leg room	L51	32.4	34.8		32.2	37.8		
H Point to Heel point	H31	10.6			10.0	11.1		
Min. knee room	L48	2.3			0.7	4.7		
Rear Compartment room	L 3	26.1	25.9		24.0	29.2		
Shoulder room	W 4	57.4	57.3	57.1	47.9	57.5		
Hip room	W 6	59.2	59.1	58.0	50.7	59.2		
Upper body opening to ground	H51	48.5	49.1	- - -	- - -			
<b>LUGGAGE COMPARTMENT</b>								
Usable luggage capacity	V 1	N.A.	14.6		10.7	N.A.		
Liftover height	H195	N.A.	28.6			N.A.		
Position of spare tire storage		VERTICAL	HORIZONTAL			VERTICAL		
Method of holding lid open			TORSION RODS			(a)		
<b>STATION WAGON - THIRD SEAT</b>								
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
<b>STATION WAGON - CARGO SPACE</b>								
Cargo length at floor - front seat	L202	90.9				44466		
Cargo length at belt - front seat	L204	79.9				96.1(b)		
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		96.3(c)

(a) Dual Action Tailgate - Standard

(b) - (44456) - 95.9

(c) - (44456) - 96.1

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a)

## 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.)
SPORTWAGON	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	2.93-(Std) 2.73-(Econ.) 3.42-(Perf) 3.91 or 3.64 (S.C.O.)
	350	1-4 bbl	10.25	280 @ 4600	375 @ 3200	Automatic	2.93-(Std) 2.73-(Econ.) 3.23-(Perf) 3.91 or 3.64 (S.C.O.)
SPORTWAGON "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.

SPECIAL DELUXE

SKYLARK CUSTOM

TRANS.

Man. (3)  
Auto.  
Auto.  
Man. (3)  
Auto.  
Auto.

CARB.

2 bbl 3.07 Std.  
2 bbl 2.56 Std.  
4 bbl 2.73 Std.  
2 bbl Same as Special Deluxe  
2 bbl Same as Special Deluxe  
4 bbl Same as Special Deluxe

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED <sup>(\*)</sup>

MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORT WAGON 44456
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## 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 (C to C)	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		
Compress. 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.	18.192		
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.

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

MODEL	SPECIAL	SKYLARK	
	DELUXE 43435	CUSTOM 44469	SPORT WAGON 44456

## 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	None
	In rod or piston 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



## AMA Specifications—Passenger Car

MAKE OF CAR	BUICK			MODEL YEAR	1969	DATE ISSUED	9-4-68	REVISED (a)
MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORT WAGON 44456					

## 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)

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (a)

MODEL	SPECIAL DELUXE	SKYLARK CUSTOM	SPORTWAGON
	43435	44469	44456

## 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 (½ 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 (½ 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 and Chrome Flashed Stem.



# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED <sup>(\*)</sup>

<b>MODEL</b>	<b>SPECIAL DELUXE</b> 43435	<b>SKYLARK CUSTOM</b> 44469	<b>SPORT WAGON</b> 44456
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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 (flaring, 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)	<u>Anticipated Lowest Temp.</u>	<u>Use SAE Viscosity</u>
	Above 32° F	10W-30, 20W or 20
	Below 32° F to Zero F	10W-30, 10W-40, 10W
	Below Zero F	5W-20, 5W-30, 5W
Engine Service Reqmt. (MM, MS, etc.)	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 (a)
	Main	2.25 - .076
Tail pipe dia. (O.D. & wall thickness)	2.00 - .060 (a)	

### ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Closed Induction System
	Optional	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

(a) 2.25-60 Used on Sportwagon "400" Option.

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (\*)

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	1.4375	
	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		

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (\*) 1-13-69

MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
	(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)		

## ENGINE - FUEL SYSTEM

Induction type: Carburetor, fuel injection, supercharger.		Carburetor		
Fuel Tank	Refill capacity (U.S. gals.)	Approx. 20.0		
	Filler location	(a) Rear	(a)	
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Engine		
	Pressure range	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	1.4375
	350	Automatic	Rochester	2 GV	1-2 bb1	1.4375
	350	Automatic	Rochester	4 MV	1-4 bb1	(P) 1.375 (S) 2.250
Skylark Custom	350	Manual (3)	Rochester	2 GV	1-2 bb1	1.4375
	350	Automatic	Rochester	2 GV	1-2 bb1	1.4375
	350	Automatic	Rochester	4 MV	1-4 bb1	(P) 1.375 (S) 2.250
Sportwagon	350	Manual (3)	Rochester	2 GV	1-2 bb1	1.4375
	350	Automatic	Rochester	2 GV	1-2 bb1	1.4375
	350	Automatic	Rochester	4 MV	1-4 bb1	(P) 1.375 (S) 2.250

(a) Left Rear Quarter Panel

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

# AMA Specifications—Passenger Car

MAKE OF CAR <u>BUICK</u>	MODEL YEAR <u>1969</u>	DATE ISSUED <u>9-4-68</u> REVISED (*)		
MODEL	SPECIAL DELUXE	SKYLARK CUSTOM	SPORTWAGON	
	43435	44469	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. .95 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	61.50	46.0							
Width	.38	.47	.47	.38							

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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## 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 (37amps) (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.		160
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 9-4-68 REVISED (a) 12-2-68

MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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## 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'gal 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 and Coil  
Ground Strap, Engine to Dash  
By-Pass Condensers - Delcotron, and Regulator  
Resistor Spark Plugs.

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED <sup>(\*)</sup>

MODEL	SPECIAL DELUXE	SKYLARK CUSTOM	SPORTWAGON
	43435	44469	44456

## ELECTRICAL - INSTRUMENTS AND EQUIPMENT

Speed-ometer	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		
Wind-shield wiper	Type - Standard	Electric (Two Speed)
	Type - Optional	None
Wind-shield 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		Balleville 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 9-4-68 REVISED (a)

	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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MODEL

## 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 BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e) 12-2-68

MODEL	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456

## DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Super Turbine "300"	Turbo Hydra-Matic "350"																																
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	<table border="1"> <tr> <td></td> <td style="text-align: center;">D.</td> <td style="text-align: center;">L.</td> <td style="text-align: center;">R.</td> </tr> <tr> <td>1st</td> <td style="text-align: center;">---</td> <td style="text-align: center;">1.765</td> <td style="text-align: center;">---</td> </tr> <tr> <td>2nd</td> <td style="text-align: center;">1.000</td> <td></td> <td></td> </tr> </table>		D.	L.	R.	1st	---	1.765	---	2nd	1.000			<table border="1"> <tr> <td></td> <td style="text-align: center;">D</td> <td style="text-align: center;">L<sup>2</sup></td> <td style="text-align: center;">L<sup>1</sup></td> <td style="text-align: center;">REV</td> </tr> <tr> <td>1st</td> <td style="text-align: center;">2.52</td> <td style="text-align: center;">2.52</td> <td style="text-align: center;">2.52</td> <td style="text-align: center;">1.93</td> </tr> <tr> <td>2nd</td> <td style="text-align: center;">1.52</td> <td style="text-align: center;">1.52</td> <td style="text-align: center;">----</td> <td style="text-align: center;">----</td> </tr> <tr> <td>3rd</td> <td style="text-align: center;">1.00</td> <td style="text-align: center;">----</td> <td style="text-align: center;">----</td> <td style="text-align: center;">----</td> </tr> </table>		D	L <sup>2</sup>	L <sup>1</sup>	REV	1st	2.52	2.52	2.52	1.93	2nd	1.52	1.52	----	----	3rd	1.00	----	----	----
	D.	L.	R.																															
1st	---	1.765	---																															
2nd	1.000																																	
	D	L <sup>2</sup>	L <sup>1</sup>	REV																														
1st	2.52	2.52	2.52	1.93																														
2nd	1.52	1.52	----	----																														
3rd	1.00	----	----	----																														
Max. upshift speed—drive range (Nom.)	71	(a) 47	(b) 80	(a) 37	(c) 30																													
Max. kickdown speed—drive range (Nom.)	66	(c) 38	(d) 70	(c) 30	(d) 30																													
Torque converter	Number of elements	Three																																
	Max. ratio at stall	2.25																																
	Type of cooling (air, liquid)	Water																																
	Nominal diameter	11.75																																
Lubricant	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 (Sedan) 3.00 x 56.00 x .065 (Coupe)	4.00 x 65.00 x .065
	Manual 4-speed trans.	Not Available	
	Overdrive transmission	Not Available	
	Automatic transmission	(f) 3.25 x 60.00 x .065 (Sedan) (f) 3.00 x 56.00 x .065 (Coupe)	(f) 3.25 x 58.30 x .065

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

(Continued)

(e) "DEXRON"<sup>R</sup> Automatic Transmission Fluid

- (a) 1-2 Shift
- (b) 2-3 Shift
- (c) 2-1 Shift
- (d) 3-2 Shift

(f) Rubber Biscuit Drive

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED (e)

	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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**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)	Needle - (Anti-Friction)
	Lubric. (fitting, prepack)	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		Roller	
Lubricant	Capacity (pt.)	2.90	
	Type recommended	MTL-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) 2.93	(b) 3.91	(c) 3.42	(d) 2.56	(e) 3.23	(f) 3.64	(g) 2.73
No. of teeth	Pinion	14	11	12	16	13	11
	Ring gear	41	43	41	41	42	41
Ring Gear O.f.	8.500						

\*See Footnote on Page 17A



# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED <sup>(a)</sup>  
 MODEL SPECIAL DELUXE 43435 SKYLARK CUSTOM 44469 SPORTWAGON 44456

- (a) Std. Manual (3) - Coupes and Sedans. Std. Automatic - Wagons and Economy Ratio on Sportwagon - Auto
- (b) S.C.O. on All
- (c) Perf. on Sportwagon - Auto
- (d) Std. Automatic - Coupes and 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

<b>MAKE OF CAR</b>	BUICK			<b>MODEL YEAR</b>	1969	<b>DATE ISSUED</b>	9-4-68	<b>REVISED (*)</b>
<b>MODEL</b>	SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469		SPORTWAGON 44456			

## DRIVE UNITS - WHEELS

<b>Type &amp; material</b>		Disc Steel				
<b>Rim (size &amp; flange type)</b>	Std.	14 x 6.00 "JK"	14 x 5.00 "J"	14 x 6.00 "JK"		
	Opt.	None				
<b>Attachment</b>	Type (bolt or stud)	Stud				
	Circle diameter	4.750"				
	Number and size	Five - .4375-20				
<b>MODEL</b>	SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469		SPORTWAGON 44456	

## DRIVE UNITS - TIRES

<b>Standard</b>	<b>Size, ply rating, &amp; ply</b>		8.25 - 14 (2-Ply with 4-Ply Rating)	7.75 - 14 (4-Ply Rating)	8.55 - 14 (2-Ply with 4-Ply Rating)
	<b>Type (bias, radial, etc.)</b>		Bias Angle		
	Full rated Inflation Press.	Front	26	26	26
		Rear	32	28	32
Rev./Mile at 50 MPH		785			790
<b>Optional</b>	<b>Size, ply rating, &amp; ply</b>		8.55 - 14 (2-Ply with 4-Ply Rating) 205R14 Radial Ply	8.25 - 14 (4-Ply with 8-Ply Rating) 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

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

# AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 REVISED <sup>(a)</sup>9-30-68

	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44456
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**MODEL**  
**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)	None		
Power brake make & type (remote, int., etc.)	Std. Opt.	No 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	Bore	1.000		
	displacement distribution	Front %	59.0	
		Rear %	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)
			Second. or in-board	9.83 X 2.00 X .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. (Widest 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 9-4-68 REVISED (a) 12-2-68

	<b>SPECIAL</b>	<b>SKYLARK</b>	
	<b>DELUXE</b>	<b>CUSTOM</b>	<b>SPORTWAGON</b>
<b>MODEL</b>	<b>43435</b>	<b>44469</b>	<b>44456</b>

## 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° to + 1/2° (Curb Height)	
	Camber (deg.)		+ 1/2° to - 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 UNF	
	Bearing type		Tapered Roller	

## AMA Specifications—Passenger Car

MAKE OF CAR BUICK MODEL YEAR 1969 DATE ISSUED 9-4-68 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 and 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		335
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	.812 (a)	.895 (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. - 5.53 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
	Rate at wheel (lb. per in.)	138	101	149
	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

<b>MAKE OF CAR</b>	<b>BUICK</b>	<b>MODEL YEAR</b>	<b>1969</b>	<b>DATE ISSUED</b>	<b>9-4-68</b>	<b>REVISED (*)</b>
<b>MODEL</b>		<b>SPECIAL DELUXE</b>	<b>SKYLARK CUSTOM</b>	<b>SPORTWAGON</b>		
		43435	44469	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 9-4-68 REVISED (e) 12-2-68

## 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		
<b>SPECIAL DELUXE</b>									
43435	1838	2035	3873	47.05	52.95	21.25	78.75	137	28
43436	1766	2154	3920	44.90	55.10	22.27	77.73	137	28
<b>SKYLARK-CUSTOM</b>									
44437	1851	1613	3464	52.15	47.85	19.18	80.82	122	28
44439	1924	1675	3599	52.21	47.79	19.15	80.85	122	28
44467	1875	1645	3520	52.02	47.98	19.23	80.77	122	28
44469	1877	1632	3519	52.21	47.79	19.15	80.85	122	28
<b>SPORTWAGON</b>									
44456	1943	2300	4243	45.58	54.42	21.94	78.06	137	28
44466	1949	2419	4368	44.52	55.48	22.46	77.54	137	28
<b>Accessories &amp; Equipment Differential Weights</b>				<b>Remarks</b>					
Engine, V8 - (4bbl)	7.91	-----	7.91						
Engine, V8 - 400 Opt.	83.06	12.98	96.04						Sportwagon
Transmission, S.T. 300	4.94	1.83	6.77						Special Deluxe
Transmission, S.T. 350	26.96	7.06	34.02						Skylark & Sportwagon
Power Steering	29.45	-----	29.45						
Power Brakes	9.48	-----	9.48						
Disc Brakes, Front	34.06	3.54	37.60						Special Deluxe
Disc Brakes, Front	39.56	11.79	51.35						Skylark
Disc Brakes, Front	44.12	3.54	47.66						Sportwagon
Radio, Sonomatic	6.00	2.30	8.30						
Radio, AM/FM	6.50	2.50	9.00						
Tires, Whitewall	1.60	2.40	4.00						Special Deluxe
Tires, Whitewall	2.43	3.64	6.07						Skylark
Tires, Whitewall	1.82	2.72	4.54						Sportwagon
Air Conditioner	110.96	-2.26	108.70						Special Deluxe & Skylark
Air Conditioner	112.10	-2.29	109.81						Sportwagon
Power Seat, 4-Way	10.00	9.50	19.50						
Tilt Steering Wheel	1.68	1.03	2.71						
Power Windows	11.52	10.98	22.50						
Door Locks, Vacuum	5.00	3.00	8.00						2 Doors
Door Locks, Vacuum	6.00	7.00	13.00						4 Doors

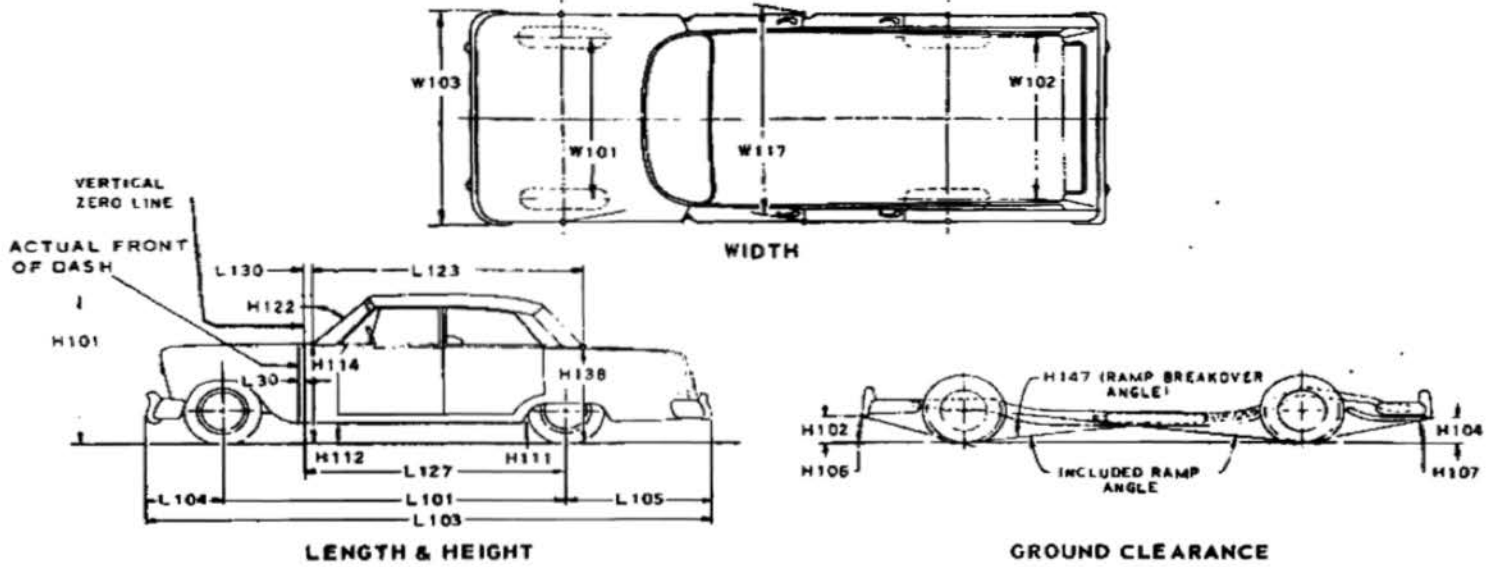
\*Reference - SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

# AMA Specifications—Passenger Car

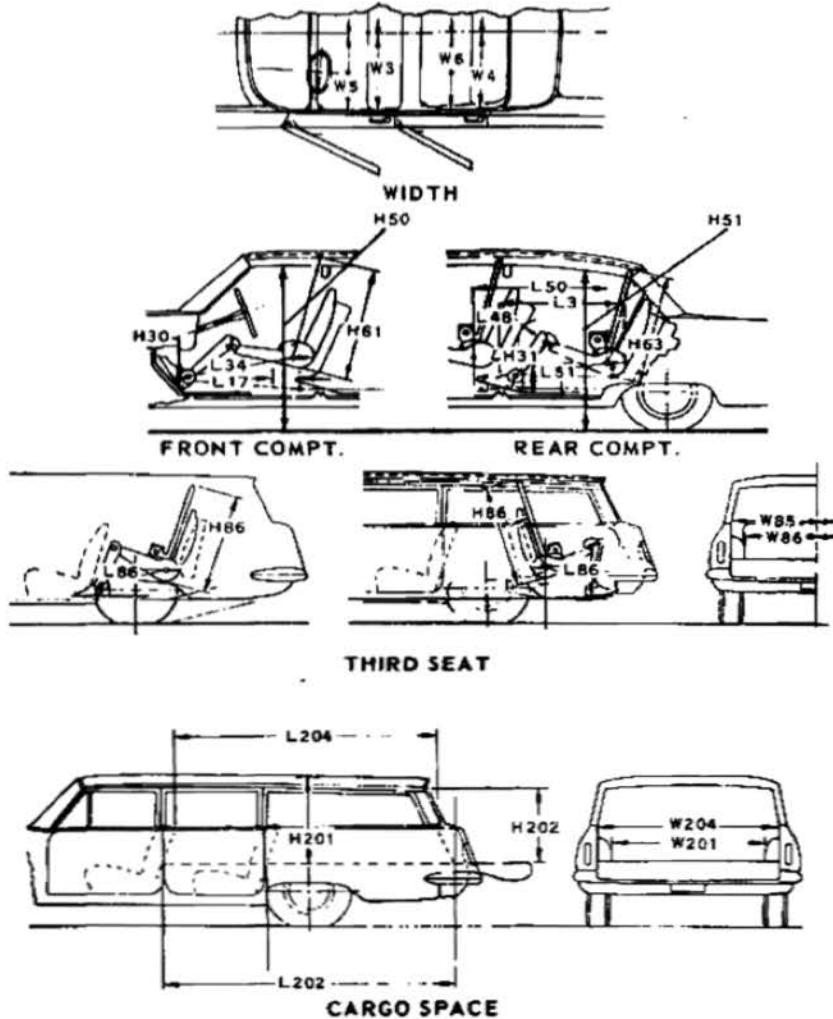
## CAR AND BODY DIMENSIONS

### 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

1728



## INDEX

SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Automatic Transmission.....	16	Kingpin (Steering Axis).....	20
Axis, Steering.....	20	Lamp height and spacing.....	23
Axle, Rear.....	17	Legroom.....	2
Battery.....	12	Lengths - Car and Body.....	1
Bearings, Engine.....	5, 6, 7	Lifters, valve.....	6
Belts - Fan, Generator, Water Pump.....	11	Linings - Clutch, Brake.....	14, 19
Brakes - Parking, Service Power.....	18, 19	Lubrication.....	7, 8, 14, 15, 16, 17
Camber.....	20	Luggage Compartment.....	2
Camshaft.....	6	Motor, Starting.....	12
Capacities.....		Muffler.....	8
Cooling System.....	11	Overdrive.....	15
Fuel Tank.....	10	Piston Pins & Rings.....	4, 5
Lubricants.....		Pistons.....	4, 5
Engine Crankcase.....	8	Power Brakes.....	19
Transmission and Overdrive.....	15, 16	Power Steering.....	20
Rear Axle.....	17	Power Teams.....	3
Car and Body Dimensions.....		Propeller Shaft, Universal Joints.....	16, 17
Width.....	1	Pumps - Oil, Fuel.....	8, 10
Length.....	1	Water.....	11
Height.....	1	Radiator, Hoses.....	11
Ground Clearance.....	1	Ratios - Axle.....	3, 17
Front Compartment.....	2	Compression.....	3, 4
Rear Compartment.....	2	Steering.....	20
Luggage Compartment.....	2	Transmission.....	15, 16
Station Wagon - Third Seat.....	2	Rear Axle.....	3, 17
Station Wagon - Cargo Space.....	2	Regulator - Generator.....	12
Carburetor.....	3, 9, 10	Rims.....	18
Caster.....	20	Rings, Piston.....	5
Choke, Automatic.....	10	Rods - Connecting.....	5
Clutch - Pedal Operated.....	14	Shock Absorbers, Front & Rear.....	21
Coil, Ignition.....	13	Spark Plugs.....	13
Connecting Rods.....	5	Speedometer.....	14
Convenience Equipment.....	23	Springs - Front & Rear Suspension.....	21
Cooling System.....	11	Valve, Engine.....	6
Crankcase Ventilation System.....	8	Stabilizer (Sway Bar) - Front & Rear.....	21
Crankshaft.....	6	Starting System.....	12
Cylinders and Cylinder Head.....	4	Steering.....	20
Dimension Definitions.....		Supply System.....	12
Key Sheet.....	25	Suppression - Ignition, Radio.....	13
Exterior & Interior.....	26	Suspension - Front & Rear.....	21
Distributor - Ignition.....	13	Tail Pipe.....	8
Electrical System.....	12, 13, 14	Thermostat, Cooling.....	11
Engine.....		Timing, Engine & Valve.....	6, 7, 13
Bore, Stroke, Displacement, Type.....	4	Tires.....	18
Compression Ratio.....	4	Toe In.....	20
Firing Order, Cylinder Numbering.....	4	Torque Converter.....	16
General Information, H.P. & Torque.....	4	Torque - Engine, Rated.....	3, 4
Lubrication.....	7, 8	Transmission - Types.....	3, 10, 15, 16
Power Teams.....	3	Automatic.....	3, 10, 15, 16
Exhaust Emission Control.....	9	Manual & Overdrive.....	3, 10, 15
Exhaust System.....	8	Ratios.....	15, 16
Equipment Availability.....	22	Track.....	1
Fan, Cooling.....	11	Trunk Luggage Capacity.....	2
Filters - Engine Oil, Fuel System.....	8, 10	Turning Diameter.....	20
Frame.....	22	Unitized Construction.....	22
Front Suspension.....	21	Universal Joints, Propeller Shaft.....	16, 17
Fuel, Fuel Pump, Fuel System.....	4, 10	Valves - Intake & Exhaust.....	6, 7
Fuel Injection.....	10	Vibration Damper.....	6
Generator and Regulator.....	12	Voltage Regulator.....	12
Glass.....	22	Water Pump.....	11
Height (Lamps).....	14	Weights.....	24
Headroom - Body.....	2	Wheel Alignment.....	20
Heights - Car and Body.....	1	Wheelbase.....	1
Horns.....	14	Wheels & Tires.....	18
Horsepower - Brake.....	3, 4	Wheel Spindle.....	20
Ignition System.....	13	Widths - Car and Body.....	1
Inflation - Tires.....	18	Windshield.....	22
Instruments.....	14	Windshield Wiper.....	14