

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	1968
		ISSUED	Sept. 9, 1967
		REVISED (●)	

NOTES

1. The 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, number of passenger & 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 6 Passenger Hardtop Coupe	44437
	4 Door 6 Passenger Hardtop Sedan	44439
	2 Door 6 Passenger Convertible	44467
	4 Door 6 Passenger Thin Pillar Sedan	44469
Sportwagon	4 Door 2 Seat Station Wagon	44455
	4 Door 3 Seat Station Wagon	44655

MAKE OF CAR BUICK MODEL YEAR 1968 DATE ISSUED 9-9-67 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 and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL	SAE Ref. No.	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44455
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	72.3	74.5
LENGTH				
Body "O" to front of dash	L 30	0.		
Wheelbase	L101	116.0 (a)		121.0
Overall car length	L103	209.1	204.7 (b)	214.1
Overhang - front	L104	37.47		
Overhang - rear	L105	55.53	51.19	55.62
Body upper structure length	L123			
Body "O" line to $\text{\textcircled{C}}$ of rear wheel	L127	99.5		104.50
Body "O" line to w/s cowl point	L130			
HEIGHT				
Overall height	H101	54.5	54.2	58.9
Cowl height	H114	38.49		39.63
Deck height	H138			
Rocker panel - front	To ground	11.17	10.32	11.52
	From front wheel $\text{\textcircled{C}}$	27.84	27.19	28.05
Rocker panel - rear	To ground	11.30	10.02	12.04
	From rear wheel $\text{\textcircled{C}}$	25.80	27.21	28.07
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)

(a) 112.0 Inches - All Coupe Styles

(b) 200.7 Inches - All Coupe Styles

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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 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44455	
FRONT COMPARTMENT					
Effective head room	H61	38.4	38.3	38.0	
Max. eff. leg room - accelerator	L34	41.5	42.0	41.6	
H Point to Heel point	H30	7.7	8.0	8.1	
H Point travel	L17	4.7		4.8	
Shoulder room	W 3	58.3		58.8	
Hip room	W 5	59.8	59.5	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	10.5	11.1	
Min. knee room	L48	2.3	2.8	4.7	
Rear Compartment room	L 3	26.1		29.2	
Shoulder room	W 4	57.4	58.8	57.4	
Hip room	W 6	59.2	60.0	59.2	
Upper body opening to ground	H51	34.8		37.8	
LUGGAGE COMPARTMENT					
Usable luggage capacity	V 1	Not Available	13.5	Not Available	
Liftover height	H195	Not Available	28.7	Not Available	
Position of spare tire storage		Vertical	Horizontal	Vertical	
Method of holding lid open		Torsion Rods			
STATION WAGON - THIRD SEAT					
Shoulder Room	W85	Not Available		44465 57.7	
Hip room	W86	Not Available		44.9	
Effective leg room	L86	Not Available		36.2	
Effective head room	H86	Not Available		37.9	
Seat facing direction		Not Available		Front	
STATION WAGON - CARGO SPACE					
		SPECIAL DELUXE 43435		SPORTWAGON	
				44455	44465
Cargo length at floor - front seat	L202	90.9		95.9	96.1
Cargo length at belt - front seat	L204	79.9		84.9	
Cargo width - wheelbase	W201	44.5			
Opening width at belt	W204	49.6		48.5	
Maximum cargo height	H201	31.5		34.1	
Rear opening height	H202	28.6		28.4	
Cargo volume index (cu. ft.) W4 x L204 x H201 1728	V2	83.6		96.1	96.3

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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	1-2Bbl	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	1-2Bbl	9.0	230 @ 4400	350 @ 2400	Automatic	2.56 (Std) No Econ. 3.23(a) (Perf) 3.91 (S.C.O.)
	350	1-4Bbl	10.25	280 @ 4600	375 @ 3200	Automatic	2.73 (Std) No Econ. 3.23(a) (Perf) 3.91 (S.C.O.)
Skylark Custom	350	1-2Bbl	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	1-2Bbl	9.0	230 @ 4400	350 @ 2400	Automatic	2.56 (Std) No Econ. 3.23(a) (Perf) 3.91 (S.C.O.)
	350	1-4Bbl	10.25	280 @ 4600	375 @ 3200	Automatic	2.73 (Std) No Econ. 3.23(a) (Perf) 3.91 (S.C.O.)
Sportwagon	350	1-2Bbl	9.0	230 @ 4400	350 @ 2400	Manual (3)	3.23 (Std) No Econ. or Perf. 3.91 (S.C.O.)
	350	1-2Bbl	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	1-4Bbl	10.25	280 @ 4600	375 @ 3200	Automatic	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	SPORTWAGON 44455			

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	Di ² xNo. Cyl. 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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MODEL		SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44455		

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

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MODEL	SPECIAL	SKYLARK	
	DELUXE	CUSTOM	SPORTWAGON
	43435	44469	44455

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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	SPECIAL DELUXE 43435	SKYLARK CUSTOM 44469	SPORTWAGON 44455
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MODEL _____

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
Material		SAE - 1041 (b)	

Intake	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 (w 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; .375 - .371 Head End
	Stem to guide clearance		.0015 - .0035 Tip End; .0025 - .0045 Head End
	Lift (w 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

- (a) .3725 ± .0005 - Max. allowable taper (Continued)
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)	<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
	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	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

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ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Combustion Control	
		Not Used	
Air Injection Pump	Type		
	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	550
		Neutral	700 (Manual)
Idle A/F mixture			
Aux. Adv. Systems (type)		None	
Make		Delco - Remy	
Model		1111330	
Distributor	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	1100
		Intermed. points deg. @ rpm	19 @ 1750
	Max. deg. @ rpm		28 @ 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 (describe changes)		Same as Standard	
Exhaust System (describe changes)		Same as Standard	

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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	4.25 - 5.75 psi @ Outlet (b)	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Pleated Paper	Woven Plastic
	Locations	Carb. Inlet	Tank
	Choke type	Manifold Remote Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
Carburetor	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		550 (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 Bbl	
	350	Automatic	Rochester	2 GV	1-2 Bbl	
	350	Automatic	Rochester	4 MV	1-4 Bbl	
Skylark Custom	350	Manual (3)	Rochester	2 GV	1-2 Bbl	
	350	Automatic	Rochester	2 GV	1-2 Bbl	
	350	Automatic	Rochester	4 MV	1-4 Bbl	
Sportwagon	350	Manual (3)	Rochester	2 GV	1-2 Bbl	
	350	Automatic	Rochester	2 GV	1-2 Bbl	
	350	Automatic	Rochester	4 MV	1-4 Bbl	

(a) Left Rear Quarter Panel

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

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 SPECIAL SKYLARK
 DELUXE CUSTOM SPORTWAGON
 43435 44469 44455

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)	(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
	Choke type	Manifold Remote Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
Carburetor	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		550 (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)

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MODEL		SPECIAL DELUXE 43435		SKYLARK CUSTOM 44469			SPORTWAGON 44455

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 (76 x 104°) 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							

AMA Specifications—Passenger Car

MAKE OF CAR	BUICK	MODEL YEAR	1968	DATE ISSUED	9-9-67	REVISED (•)
MODEL		SPECIAL DELUXE	43435	SKYLARK CUSTOM	44469	SPORTWAGON
						44455

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		1100691 (a)	
	Type and rating		Diode Rectified Alternator (42 amps) (a)	
	Output at engine idle (neutral)		15 amps (Min.) (b)	
	Ratio-Gen. to Cr's rev.		2.29	
Regulator	Make		Delco-Remy	
	Model		1119515	
	Type		Voltage Control	
	Cutout relay	Closing voltage generator rpm	None	
		Reverse current to open	None	
	Regulated	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		1108380	
	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	160
	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

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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		1111330	
	Cent'gal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)		1100
		Intermediate points deg.@rpm		19° @ 1750
		Max. deg.@rpm		28° @ 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		45TS	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		15	
	Gap		.030	
Cable	Conductor type		4000 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

AMA Specifications—Passenger Car

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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	Standard
	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

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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

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DRIVE UNITS - AUTOMATIC TRANSMISSION

Trade name	Super Turbine (Optional)			
Type describe	Two Speed with Torque Converter			
Selector location				
List gear ratios Selector Pattern and indicate which are used in each selector position		<u>Drive</u>	<u>Low</u>	<u>Reverse</u>
	1st	1.765	1.765	1.765
	2nd	1.000	- - -	- - -
Max. upshift speed-drive range (Nom)	71	71	59	
Max. kickdown speed-drive range (Nom)	66	66	55	
Torque convertor	Number of elements	Three		
	Max. ratio at stall	2.25		
	Type of cooling (air, liquid)	Water		
Lubricant	Nominal diameter			
	Capacity-refill (pt.)	19.0 Total	5.0 Drain	
	Type recommended	"Dexron" Automatic Transmission Fluid		
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	4.00 x 65.04 x .065
	Manual 4-speed trans.	Not Available	
	Overdrive transmission	Not Available	
	Automatic transmission	3.25 x 60.00 x .065 (a)	3.25 x 58.80 x .065 (b)

* Center to center of universal joints, or to centerline of rear attachment.
 (a) With Rubber Element at Rear
 (b) 3.00 x 58.55 x .065 (Sportwagon "400")

(Continued)

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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 Type)
	Lubrication (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, spacer)	Collapsible Spacer	
Wheel bearing type	Ball	
Capacity (lb)	2.90	
Type recommended	MIL-L-2105B	
Lubricant	SAF vis. Summer	SAE 80
	SAF vis. Winter	SAE 80
	SAF vis. 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 teeth	Pinion	14	11	12	16	13	11
	Ring gear	41	43	41	41	42	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) S.C.O. on Manual (3) - Coupes & Sedans. Perf. on Sportwagon - Auto.
- (d) Std. Automatic - Coupes & Sedans with 2 Bbl. Carb.
- (e) Std. Manual (3) - All Wagons. Perf. with Automatic - Sedans, Coupes, Wagons. Std. on Automatic - Sportwagon with 2 Bbl. & Perf. on Sportwagon with 4 Bbl.
- (f) S.C.O. Automatic - Sportwagon with 2 Bbl.
- (g) Std. Automatic - Sportwagon with 4 Bbl. Economy on Wagon with Auto. and 2 Bbl.

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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	7.75 - 14 (2-Ply with 4-Ply Rating)	8.25-14 (2-Ply with 4-Ply Rating) (a)	
	Type (bias, radial, etc.)	Rayon - Polyester (Radial Ply Tires Optional)		
	Full rated Inflation Press.	Front	24	
		Rear	32	26 32
Rev. Mile at 50 MPH	785		790	
Optional	Size, ply rating, & ply	8.25 - 14 (2-Ply with 4-Ply Rating) (Radial Ply Tires Also Opt.)	8.55 - 14 (2-Ply with 4-Ply Rating) (Radial Ply Tires Also Opt)	

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 44465

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MODEL		43435	44469			44455

BRAKES - SERVICE

Type (drum or disc)	Drum (Front Power Disc - Optional)					
Self adjusting (std., opt., N.A.)	Standard					
Power brake make & type (remote, int., etc.)	Std.	Duo-Servo				
	Opt.	Delco-Moraine Int. Vac. Susp. (Pwr. Disc Frts.-Opt.)				
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		
Percent brake effectiveness - front	62.4 (b)			55.9		
Drum or Disc	Diameter (nominal)	Front	9.495/9.505			
		Rear	9.495/9.505			
	Type and material	Composite Cast Iron			(a)	
	Disc (vented or solid)	Vented (Disc Fronts - Optional)				
No. pistons per caliper	4					
Wheel cylinder bore	Front	1.125				
	Rear	.875	1.000			
Master Cylinder	Bore	1.000				
	displacement distribution	Front %	59.0			
Rear %		41.0				
Disc Brk. Valve	Type (proportion, delay, metering, other)	Metering				
Pedal arc ratio	6.46 (d)					
Line pressure at 100 lb. pedal load	830 psi (c)					
Shoe clearance adjustment	.015					
Brake Lining	Drum or Disc	Drum				
	Bonded or riveted	Riveted				
	Front Wheel	Material	Extruded Molded			
			Size (length x width x thickness)	Prim. or out-board		Second. or in-board
		7.57 x 2.50 x .196 (Gross)	.096 (Net)			
		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		Second. or in-board
		7.57 x 2.00 x .196 (G) .096 (N)	.196 (G) - .096 (N)			
9.83 x 2.00 x .265 (G) .165 (N)		.265 (G) - .165 (N)				
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) Fronts-Finned Aluminum with Cast Iron Liners. Rears-Composite C/I.
 (b) Based on Wheel Cylinder Size Only.
 (c) 1130 psi with 30# Pedal Load when Power Brake Equipped.
 (d) 3.44 with Power Brakes.

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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 - 42.20	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
Outside whl. angle with inside whl. at 20°		18.8°		
Manual	Gear	Type	Recirculating Ball - Nut	
		Make	Saginaw	
	Ratios	Gear	24.0	
		Overall	28.6	
	No. wheel turns		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	
Number wheel turns		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	

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MODEL		SPECIAL		SKYLARK		
		DELUXE	43435	CUSTOM	44469	SPORTWAGON x 44455

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 Des. Ht. - 3.60 150.85 x .637 145.36 x .643	
	Spring rate (lb. per in.)	310	335
	Rate at wheel (lb. per in.)	112	116
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	.969	.875 .969

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 Height - 5.50 I.D. 138.00 x .600 106.00 x .550 150.0 x .610		
	Spring rate (lb. per in.)	138	105 150	
	Rate at wheel (lb. per in.)	138	107 150	
	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		

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		DELUXE	43435	44469	44455		

FRAME

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

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors						
	Rear doors						Front
Type of finish (lacquer, enamel, other)							Front
Hood counterbalanced (yes, no)							Acrylic Lacquer
Hood release control (internal, external)							Yes
Vehicle Ident. No. location							External
Engine No. location							Left Side of Upper Instrument Panel
Theft protection - type							Top of Left Cylinder Block at Front
Vent window control method (crank, friction pivot)	Front						None
	Rear						Crank
Seat cushion type	Front						-----
	Rear						Zig - Zag
	3rd seat						Zig - Zag
Seat back type	Front						- - - - -
	Rear						Zig - Zag
	3rd seat						Zig - Zag
Windshield glass type (i.e., single curved - laminated plate)							- - - - -
Side glass type (i.e., curved - tempered plate)							Compound Curved (Laminated Type)
Backlight glass type (i.e., compound curved - tempered plate, three piece)							Curved (Tempered Plate)
Windshield glass exposed surface area							Single Curved (Tempered Plate)
Side glass exposed surface area							1249.6
Backlight glass exposed surface area							2419.9
Total glass exposed surface area							1181.4
							2520.9
							757.0
							895.1
							757.0
							4426.5
							3326.1
							4527.5

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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)			Optional (R & L)	
Radios (specify type as well as availability)			Sonomatic or AM/FM	
Rear seat speaker			Optional	
Power antenna			Not Available	
Clock			Optional	
Air conditioner (specify type and availability)			Optional	
Speed warning device			None	
Speed control device			Optional with Automatic Transmission	
Ignition lock lamp			None	
Dome lamp			Standard	
Glove compartment lamp	Optional		Standard	
Luggage compartment lamp			Optional	
Underhood lamp			Dealer Item	
Courtesy lamp	Optional		Standard	
Map lamp			Not Available	
Auto. trans. quad. lamp			Optional	
Cornering light lamp			Not Available	
Emergency Flasher			Standard	

LAMP HEIGHT AND SPACING

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.

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 SPECIAL DELUXE - SKYLARK CUSTOM - SPORTWAGON

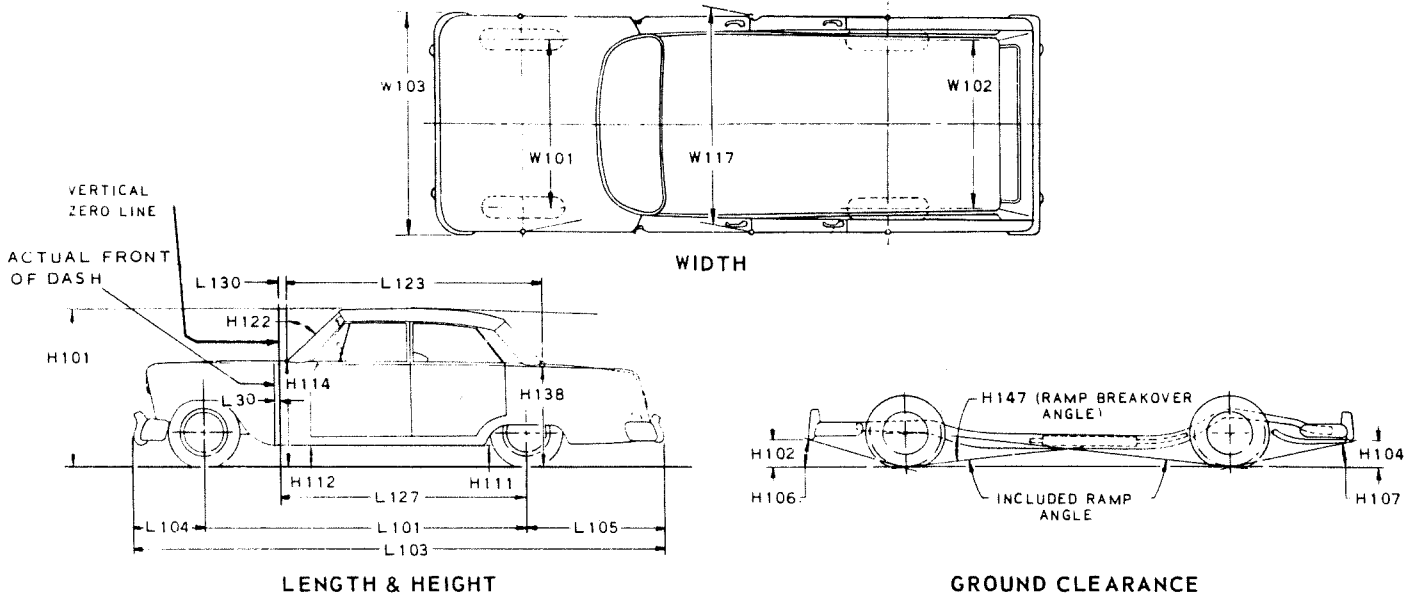
WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
43435	1836	1956	3792	47.76	52.24	20.94	79.06	3670
44437	1858	1608	3466	52.30	47.70	19.12	80.88	3344
44439	1923	1680	3603	52.13	47.87	19.18	80.82	3481
44467	1875	1641	3516	52.07	47.93	19.21	80.79	3394
44469	1853	1646	3499	51.73	48.27	19.33	80.67	3377
44455	1909	2188	4097	46.16	53.84	21.66	78.34	3975
44465	1969	2271	4240	46.03	53.97	21.72	78.28	4118
Accessories & Equipment Differential Weights								
V8 Engine (4 Bbl)	7.9	--	7.9	Remarks				
Super Turbine Trans	4.7	1.8	6.5					
Power Steering	29.4	--	29.4					
Power Brakes	9.4	--	9.4					
Disc Brakes	24.5	6.3	30.8					
Radio, Sonomatic	5.9	2.3	8.2					
Radio, AM/FM	6.5	2.5	9.0					
Tires, Whitewall	2.4	3.5	5.9					
Tires, O.S. Whitewall	4.6	6.9	11.5					
Air Conditioner	113.5	--	113.5					
Power Seat, 4 Way	10.0	9.5	19.5					
Tilt Strg Wheel	1.7	1.0	2.7					
Power Window	10.5	11.0	21.5					
Convenience Group	.3	.2	.5					
Deluxe Wheel Covers	2.6	2.6	5.2					
Chrome Plated Wheels	5.6	8.4	14.0					
Rallye Wheels	9.1	13.2	22.3					
Custom Mldgs.	.8	2.2	3.0					
Custom Strg Wheel	-.1	--	-.1					

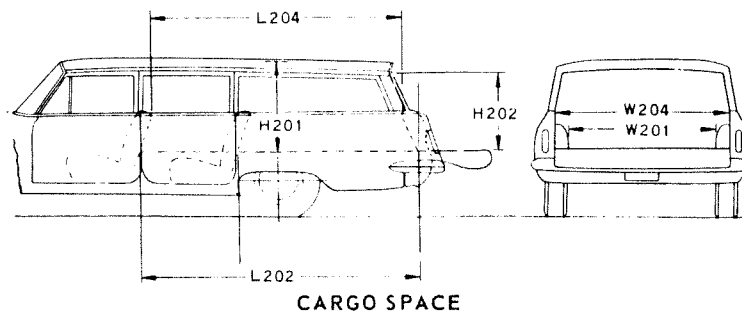
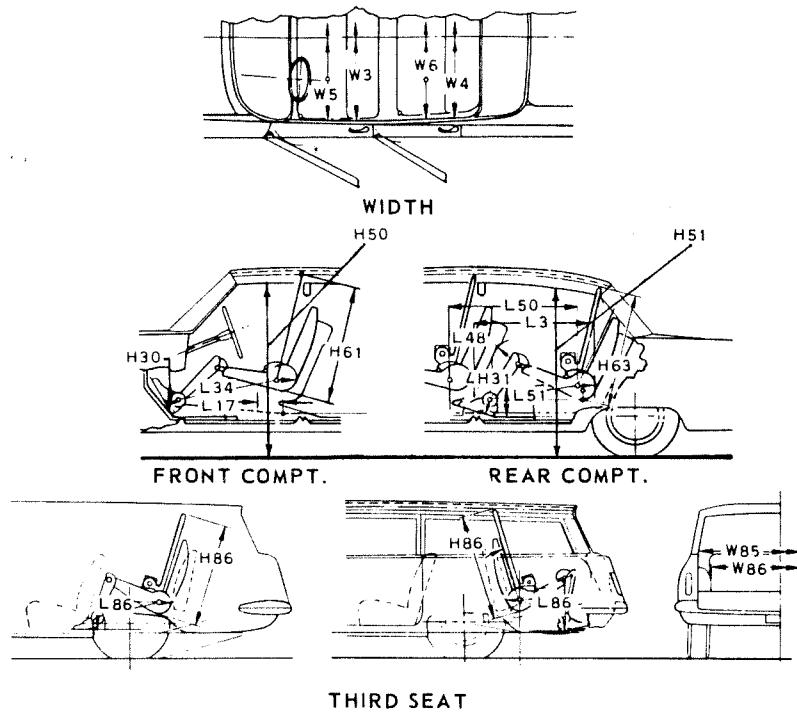
CAR AND BODY DIMENSIONS

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 at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

- L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.
- L101 WHEELBASE.
- L103 OVERALL LENGTH. Include bumper guards if standard equipment.
- L104 OVERHANG - FRONT. Measured from C L of front wheels to front of car, including bumper guards if standard equipment.
- L105 OVERHANG - REAR. Measured from C L of rear wheels to rear of car, including bumper guards if standard equipment.
- L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.
- L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.
- L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

- H101 OVERALL HEIGHT - DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.
- H114 COWL POINT TO GROUND. Measured at vehicle centerline.
- H138 DECK POINT TO GROUND. Measured at vehicle centerline.
- H112 ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.
- H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.
- H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

GROUND CLEARANCE DIMENSIONS

- H102 BUMPER TO GROUND - FRONT. Minimum dimension, includes bumper guards.
- H104 BUMPER TO GROUND - REAR. Minimum dimension, includes bumper guards.
- H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.
- H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180 minus included ramp angle) over which car can pass without interference, measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle. This dimension may be determined by calculation (see Design Standard DD 0.00 - 108) or graphically for reporting purposes.
- 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, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 - 105.
- 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 wheel housings 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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