AMA Specifications – Passenger Car

PRELIMINARY

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER Buick Motor Division General Motors Corporation	CAR NAME BUICK	
MAILING ADDRESS 1051 East Hamilton Avenue Flint 2, Michigan	MODEL YEAR 1964	ISSUED: 11-15-62 REVISED (•) 6-5-63

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.

MODEL	BODY STYLE
4027	2-Door 4-Window Thin Pillar Notchback Coupe
4035	4-Door 6-Window 2-Seat Station Wagon
4067	2-Door 4-Window Convertible Coupe
4069	4-Door 4-Window Thin Pillar Sedan
4127	2-Door 4-Window Thin Pillar Notchback Coupe
4135	4-Door 6-Window 2-Seat Station Wagon
4169	4-Door 4-Window Thin Pillar Sedan
4337	2-Door 4-Window Pillarless Coupe
4367	2-Door 4-Window Convertible Coupe
4369	4-Door 4-Window Thin Pillar Sedan

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	SPECIAL		SKYLARK
			4069	4169	4369
Wheelbase (L101)		23	115.0		
Tread	Front (W101)	22	58.0		
	Rear (W102)	22	58.0		
Maximum Overall Dimensions	Length (L103)	23	203.5		
	Width (W103)	22	73.4		
	Height (H101)	24	54.4		53.9
Transmission—(Specify trade name - opt., not available)	Manual	15	3-Speed Synchromesh (a)		
	Overdrive	16	Not Available		
	Automatic	16	Super Turbine "300" (Optional)		
Axle ratio	Manual	17	3.23		
	Overdrive	17	Not Available		
	Automatic	17	3.08		
Tire size		18	6.50-14		
Engine	Type, no. cyl., valve arr.	2	V-6, 90° In Head		
	Fuel system (Carb., other)	8	Carburetor		
	Bore and stroke	2	3.750 x 3.400		
	Piston displ., cu.in.	2	225		
	Std. compression ratio	2	9.0		
	Max. bhp at engine rpm	2	155 @ 4400		
	Max. torque at rpm	2	255 @ 2400		

(a) 4-Speed Synchromesh available as optional equipment except station wagons.

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ENGINE—GENERAL

Type, no. cyls., valve arr.			V6, 90° In Head	
Bore and stroke (nominal)			3.750 x 3.400	
Piston displacement, cu. in.			225	
Bore spacing (C/L to C/L)			4.240	
No. system (front to rear)	L. Bank		1-3-5	
	R. Bank		2-4-6	
Firing order			1-6-5-4-3-2	
Compres. ratio (nominal)			9.0	
Cylinder Head Material			Cast Iron	
Cylinder Block Material			Cast Iron	
Cylinder Sleeve-Wet, dry, none			None	
Number of mounting points	Front		Two	
	Rear		One	
Engine installation angle				
Taxable horsepower $\frac{Dia.^2 \times No. Cyl.}{2.5}$			33.748	
Published max. bhp* @ eng. RPM			155 @ 4400	
Published max. torque* (lb. ft. @ RPM)			225 @ 2400	
Recommended fuel regular - premium			Regular	
Idle speed (spec. neutral or drive)	Manual		550	
	Automatic		550 (Drive)	

ENGINE—PISTONS

Material			Cast Aluminum Alloy	
Description and finish			Cam Ground - Transverse Slot - Divorced Skirt	
Weight (piston only) oz.				
Clearance (limits)	Top land		.011 - .015	
	Skirt	Top	.0005- .0011	
		Bottom	.0005- .0021	
Ring groove depth	No. 1 ring		.188 - .1955	
	No. 2 ring		.1905- .198	
	No. 3 ring		.1905- .198	
	No. 4 ring		None	

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

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POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. First)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
*4000	225	1 bbl.	9.0	155@ 4400	225@ 2400	Synchromesh	3.23
4000	225	1 bbl.	9.0	155@ 4400	225@ 2400	Super Turbine "300"	3.08
4000	300	2 bbl.	9.0	210@ 4600	310@ 2400	Synchromesh	3.08
4000	300	2 bbl.	9.0	210@ 4600	310@ 2400	Super Turbine"300"	2.78
4000	300	4 bbl.	11.0	250@ 4800	335@ 3000	Synchromesh	3.08
4000	300	4 bbl.	11.0	250@ 4800	335@ 3000	Super Turbine"300"	2.78
*4100	225	1 bbl.	9.0	155@ 4400	225@ 2400	Synchromesh	3.23
4100	225	1 bbl.	9.0	155@ 4400	225@ 2400	Super Turbine"300"	3.08
4100	300	2 bbl.	9.0	210@ 4600	310@ 2400	Synchromesh	3.08
4100	300	2 bbl.	9.0	210@ 4600	310@ 2400	Super Turbine"300"	2.78
4100	300	4 bbl.	11.0	250@ 4800	335@ 3000	Synchromesh	3.08
4100	300	4 bbl.	11.0	250@ 4800	335 3000	Super Turbine"300"	2.78
*4300	225	1 bbl.	9.0	155@ 4400	225@ 2400	Synchromesh	3.23
4300	225	1 bbl.	9.0	155@ 4400	225@ 2400	Super Turbine"300"	3.08
4300	300	2 bbl.	9.0	210@ 4600	310@ 2400	Synchromesh	3.08
4300	300	2 bbl.	9.0	210@ 4600	310@ 2400	Super Turbine"300"	2.78
4300	300	4 bbl.	11.0	250@ 4800	335@ 3000	Synchromesh	3.08
4300	300	4 bbl.	11.0	250@ 4800	325@ 3000	Super Turbine"300"	2.78

* Standard Equipment

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description – material, type, coating, etc.	#1 - C. I. Chrome Plated #2 - C. I. Lubrited
	Width	#1 - 0. 0785 - 0. 079 #2 - 0. 077 - 0. 078
	Gap	.010 - . 020
Oil	Description – material, type, coating, etc.	Steel Uncoated
	Width	. 181 - . 187
	Gap	. 015 - . 035
Expanders		Steel Oil Ring (Hump Type)

ENGINE—PISTON PINS

Material			
Length			3. 060
Diameter			.9394 - . 9397
Type	Locked in rod, in piston, floating, etc.		Pressed in Rod
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston		. 00005 - . 0001 Select
	In rod		. 0007 -.0015 Select Press
Direction & amount offset in piston			. 040 toward high thrust side

ENGINE—CONNECTING RODS

Material		Pearlitic Malleable Iron
Weight (oz.)		
Length (center to center)		5. 960
Bearing	Material & Type	Removeable Steel Backed - M/400 Aluminum
	Overall length	.737
	Clearance (limits)	. 0002 - . 0023
	End play	. 006 - . 014 (a)

(a) Total for Both Rods.

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ENGINE—CRANKSHAFT

Material			Pearlitic Malleable Iron
Vibration damper type			Rubber Absorption
End thrust taken by bearing (No.)			
Crankshaft end play			.004-.008
Main bearing	Material & type		Steel Backed - All Removeable
	Clearance		.0005-.0021
	Journal dia. and bearing overall length	No. 1	2.4995 x .864
		No. 2	2.4995 x 1.057
		No. 3	2.4995 x .864
		No. 4	2.4995 x .864
		No. 5	None
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.0000

ENGINE—CAMSHAFT

Location			Above Crankshaft at Center of "V"
Material			Cast Alloy Iron
Bearings	Material		Steel Backed Babbitt
	Number		Four
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		1.6
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None
Timing marks on flywheel, damper, other		Harmonic Balancer

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	24
		Closes (°ABC)	81
		Duration - deg.	285
	Exhaust	Opens (°BBC)	72
		Closes (°ATC)	43
		Duration - deg.	295
	Valve opening overlap		67
Intake	Material		SAE 1041 Steel
	Overall length		4.545
	Actual overall head dia.		1.625
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		Tapered .3412 ± .0005 to .3407 ± .0005
	Stem to guide clearance		.001 to .003 (Top) - .0015 to .0035 (Bottom)
	Lift (@ zero lash)		.391
	Outer spring press. and length	Valve closed (lb. @ in.)	64 @ 1.640
		Valve open (lb. @ in.)	168 @ 1.260
	Inner spring press. and length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None
Exhaust	Material		GM-N82152 (21-4N)
	Overall length		4.545
	Actual overall head dia.		1.3125
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		Tapered .3407 ± .0005 to .3402 ± .0005
	Stem to guide clearance		.0015 to .0035 (Top) - .002-.004 (Bottom)
	Lift (@ zero lash)		.401
	Outer spring press. and length	Valve closed (lb. @ in.)	64 @ 1.640
		Valve open (lb. @ in.)	168 @ 1.260
	Inner spring press. and length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Splash and Nozzle
	Cylinder walls	Splash and Nozzle

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	
Oil pressure sending unit (elect. or mech.)	Electrical
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Element & Can
Capacity of crankcase, less filter-refill (qt.)	
Oil grade recommended (SAE viscosity and temperature range)	
Engine Service Requirement (MM, MS, etc.)	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single with Crossover (a)
Muffler No. & type (reverse flow, straight thru, separate resonator)		One Reverse Flow
Exhaust pipe dia. (O.D. & wall thickness)	Branch	1.8750 - .076"
	Main	2.00 - .076
Tail pipe diameter (O.D. & wall thickness)		1.75 - .048

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., Induction system, other)		Standard	Induction System	
		Optional	None	
Control unit	Make and model		AC	
	Location		(a)	(b)
	Energy source (manifold vacuum, carburetor air stream, other)		(a) Manifold Vacuum	(b) Crankcase Pres.
	Control method (variable orifice, fixed orifice, other)		(a) Variable Orifice	(b) Free Flowing
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other		(a) Intake Manifold	(b) Air Cleaner
	Air Inlet (breather cap, carburetor air cleaner, other)		(a) Breather Cap	(b) Air Cleaner to Left Rocker arm cvr.
	Flame arrestor (screen, check valve, other)		(a) Backfire Valve Integral with Flow Valve	(b) Screen

(a) Right rocker arm cover only in all States except California.

(b) In California, system is same as (a) with addition of left rocker cover. System then operates as shown under (b).

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ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20
	Filler location		(a)
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Engine
	Pressure range		4.5 - 5.75 at Carburetor
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Porous Metal (c)
	Locations		Carburetor
Carburetor	Choke type		Automatic - Carburetor Integral
	Intake manifold heat control (exhaust or water)		Exhaust
	Air clnr. type	Standard	Polyurethane
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
* 4000	225	Manual	Rochester	BC	1-1 bbl.	1.5625
* 4100	225	Manual	Rochester	BC	1-1 bbl.	1.5625
* 4300	225	Manual	Rochester	BC	1-1 bbl.	1.5625
4000	225	Automatic	Rochester	BC	1-1 bbl.	1.5625
4100	225	Automatic	Rochester	BC	1-1 bbl.	1.5625
4300	225	Automatic	Rochester	BC	1-1 bbl.	1.5625
4000-4100-4300	300	Manual	Rochester	2GC	1-2 bbl.	1.4375
4000-4100-4300	300	Automatic	Rochester	2GC	1-2 bbl.	1.4375
4000-4100-4300	300	Manual	Rochester	4GC	1-4 bbl.	PRI. -1.4375 SEC. -1.4375
4000-4100-4300	300	Automatic	Rochester	4GC	1-4 bbl.	PRI. -1.4375 SEC. -1.4375

(a) Rear Fill on all Models except, Station Wagons will use side fill.

(b) All models equipped with plastic mesh tank filter.

* Standard Engine (c) A. C. Pleated paper throw away used with optional V-8 Engine

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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)		180°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM @ 1000 pump rpm		
	Number of pumps		One
	Drive (V-belt, other)		V-Belt
	Bearing type		Double Row Integral Shaft
By-pass recirculation type (internal, external)			External
Radiator core type (cellular, tube and fin, other)			Tube and Center
Cooling system capacity	With heater (qt.)		
	Without heater (qt.)		
	Opt. equipment-specify (qt.)		
Water jackets full length of cylinder (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	
Fan	Number of blades & Spacing		Four (76 x 104) - 7 Blades Used with A.C.
	Diameter		17.12 (a)
	Ratio-fan to crankshaft rev.		.85 (1.15 with A/C)
	Fan cutout type		None (Thermo Clutch with A.C)
	Bearing type		Single Row Ball
*Drive belts (indicate belt used by letter)	Fan		"A" Generator and Water Pump
	Generator		"A" Fan and Water Pump
	Water Pump		"A" Fan and Generator
	Power Steering		"B"
	Air Conditioning		"C" Gen. - Fan and Water Pump

* Drive Belt Dimensions	"A"	"B"	"C"
Angle of V	38	38	38
Nominal length (SAE)	43.92	53.00	57.32
Width	.38	.47	.47

(a) 18" on V8 and 17" on V6 when A.C. equipped.

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco 558 (a)
	Voltage Rtg. & Total Plates		12 - 66
	SAE Designation & Amp Hr. Rtg.		28M - 61
	Location		Right Front Fender Skirt
	Terminal grounded		Negative
Generator	Make		Delco Remy
	Model		1100663 (b)
	Type		Diode Rectified Alternator
	Ratio—Gen. to Cr/s rev.		2.34 (c)
	Gen. cut-in (hot)—engine rpm		5 Amps. Max. at Idle (d)
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 to 14.4 at 125°
		Current	None
	Voltage test conditions	Temperature	
		Load	Run 15 Minutes at 10 Amps.
		Other	Battery must be in Circuit.

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy
	Model		1107260
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Approx. 160 RPM
	Test conditions		Engine at operating temperature
	Lock test	Amps	Not Available
		Volts	Not Available
		Torque (lb. ft.)	Not Available
	No load test	Amps	62.5
		Volts	10.6
		RPM (min.)	6200
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		With manual transmission, place control lever in neutral and depress clutch pedal. Selector lever must be in neutral or park with automatic transmission. Turn ignition key clockwise. Release key when engine starts.

(a) Wet charge. (Model 559 Dry charge)

(Continued)

(b) 1100664 used with AC

(c) 2.6 with AC

(d) 15 Amps. minimum at idle with AC

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with overrunning clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	160
	Flywheel tooth face width		.375

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		1115161
	Amps	Engine stopped	3.8 @ 12.6 V
		Engine idling	2.3 @ 12.6 V
Distributor	Make		Delco Remy
	Model		1110309
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	700-900
		Intermediate points deg. @ rpm	16^{o} @ 1800
		Max deg. @ rpm	28^{o} @ 4200
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6-8
		Intermediate points, deg @ in Hg	10.5 @ 12
		Max. deg. in. Hg.	19.5 Max.
	Breaker gap (in.)		.013 - .019
	Cam angle (deg.)		$30^{o} \pm 1^{o}$
	Breaker arm tension (oz.)		19 - 23
Timing	Crankshaft deg. @ rpm.		5^{o} @ 500
	Mark location		Crankcase Flange
	Cylinder numbering system (see page 2)		Lt. 1-3-5; Rt. 2-4-6
	Firing order (see page 2)		1-6-5-4-3-2
Spark Plug	Make and model		AC-44S
	Thread (mm)		14
	Tightening torque (lb. ft.)		25-30
	Gap		.030 - .035
Cable	Conductor type		4000 Ohms. per foot (Resistance Cable)
	Insulation type		Neoprene with Innerbraid
	Spark plug protector		Hypalon Boot

ELECTRICAL—SUPPRESSION

Locations & type	4000 Ohms/Ft spark plug wires and coil to distributor wire. .33 MFD Condenser at coil. .50 MFD Condenser at voltage regulator.

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	AC		
	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				
Ignition switch	Identify positions in order and circuits controlled	Starting with switch in full counter clockwise position "Accessory" (a) 1st position clockwise--"Off" - Locked 2nd position clockwise--"Off" - Unlocked 3rd position clockwise-- - "On" - (b) 4th position clockwise-- - "Start" - (Spring return to "On")		
	Provision for illumination	No		
	Location	Lower Control Panel - Rt. Side of Steering Column		
Main lighting switch	Identify positions and lamps controlled	1st position out - Park and Tail Lamps 2nd position out - Headlamps and Tail Lamps Rotating Switch Knob fully counter-clockwise turns dome light "On" and instrument light on "Bright". Rotating knob clockwise turns dome light "Off" and dims instrument light. Full clockwise turns instrument lights "Off".		
Other light switches	Locations and lamps controlled			
	Stop Light	Mechanical on Brake Pedal Support Brackets.		
	Glove Compt.	Not Available	Optional in Glove Compt.	In Glove Compt.
Other switches	Locations and devices controlled			
	Direct. Signal	Left Side of Steering Column		
	Backup Light	Steering Column Between Instrument Panel & Dash (c)		
	Neutral Safety	Steering Column Between Instrument Panel & Dash (c)		
	Wiper	Lower Control Panel - Lt.Side		
	(d) Trans.	At Carburetor Dash Pot		
	(d) Trans. Control	Mounted on Manifold, Actuated by Carb. Throttle Lever		
Windshield wiper	Make	Delco Appliance		
	Type	Electric		
	Vacuum booster provision	None		
	Washer provision	Yes - Optional		
Horn	Type	Solenoid		
	Number used	One	Two	
	Amp draw (each)	Both 7 to 11 Amps.		

(a) Radio, Backup Lights, Heater Blower, A/C Blower, Stop Lights & Direction Lights.
(b) Ignition, Radio, Backup Lights, Heater Blower, A/C Blower, Stop Lights, Direction Signal Wiper, Gas Gage and Indicator Lights.
(c) On Transmission of 4-Speed Assembly.
(d) Automatic Transmission Only.

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ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		2-4001, 2-4002, Dual - Horizontal		
Headlamp beam indicator		1-158		
Parking		2-1157A		
Tail		2-1157		
Stop		Same Bulb as Tail Light		
Direction signal	Front	Same Bulb as Parking Light		
	Rear	Same Bulb as Tail Light		
	Indicator	2-158		
License plate		67		
Instrument		3-158		
Ignition lock		None		
Back up		* 2-1073		
Dome		1-211		
Clock		None		
Radio		* 1-1893		
Glove compartment		None	*1-1816	1. 1816
Oil Press. Ind.		1-158		
Water Temp. Ind.		1-158		
Charge Ind.		1-158		
Heater Control Panel		1-57		
Ash Tray		None	* 1-1445	1-1445
Trans. Range		* 1-57		
Rear Courtesy		None		** 2-90
Front Courtesy		** 2-89	*2-89	2-89
Luggage Comp.		*1-89		
Spot Lamp		*1-4404		
Interior Lamp		None		

* Accessory at Extra Cost.
** Convertible Only.

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MODEL	SPECIAL		SKYLARK
	4069	4169	4369

ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction indicator same as (a).

Headlamp	15 CB (a)
Headlamp beam indicator	(a)
Parking lamp	(a)
Tail lamp	AGC-10 (b)
Stop lamp	AGC-15 (c)
Direction indicator	(c)
License plate lamp	(b)
Instrument lamp	AGC-3 (d)
Ignition lamp	None
Back up lamp	(c)
Dome lamp	AGC-15 (e)
Clock	(b)
Clock lamp	(d)
Radio	AGW - 2.5
Glove compartment lamp	(b)
Lighter	(e)
Blowers	AGC -30
Wiper	AGC -25
Trans Range	(f)
Ash Tray	(d)
Win.-Seat & Top	40 CB
Courtesy	(e)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	
		Highest	25.22
	Stop		25.22
	Backup		17.9
	License, rear		20.27
	Directional	Front	18.20
		Rear	25.22
	Headlamp	Inside	25.52
		Outside*	25.52
Distance from C/L of car to center of bulb	Tail	Inside	
		Outside	26.76
	Stop		26.76
	Backup		7.02
	License, rear		Centerline
	Directionc	Front	12.53
		Rear	26.76
	Headlamp	Inside	22.0
		Outside*	29.0

* If single headlamps are used enter here.

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			SPECIAL		SKYLARK
MODEL			4069	4169	4369
DRIVE UNITS—CLUTCH (Manual Transmission)					
Make & type			Dry		
Type pressure plate springs			Belleville Spring		
Effective plate pressure (lb.)			1500-1800		
No. of clutch driven discs			One		
Clutch facing	Material		Woven		
	Outside & inside dia.		9.12-6.12		
	Total eff. area (sq.in.)		35.93		
	Thickness		.135		
	Engagement cushioning method		Spring		
Release bearing	Type & method of lubrication		Ball Sealed		
Torsional damping	Methods: springs, friction material		Springs		
DRIVE UNITS—TRANSMISSIONS					
Manual (std. or opt.)			Standard		
Manual with overdrive (std. or opt.)			Not Available		
Automatic (std. or opt.)			Optional		
DRIVE UNITS—MANUAL TRANSMISSION					
Number of forward speeds			Three (a)		
Transmission ratios	In first		2.58		
	In second		1.48		
	In third		1.00		
	In fourth		- - -		
	In reverse		2.58		
Synchronous meshing, specify gears			2nd and 3rd		
Shift lever location			Steering Column (b)		
Lubricant	Capacity (pt.)		2.0		
	Type recommended		A9 Mineral Oil		
	SAE viscosity number	Summer	SAE 80-90		
		Winter	SAE 80-90		
		Extreme cold	SAE 80-90		

(a) 4-speed unit optional on all models except station wagons.

(b) Floor location with optional 4-speed unit.

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	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	
			Ext. cold	

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Super Turbine "300"	
Type describe		2 Speed with Torque Converter (a)	
Method of Selection (Lever, Push Button or other)		Lever-Column Mounted	
Selector Pattern		P-R-N-D-L	
List gear ratios Selector Pattern and indicate which are used in each selector position		DRIVE 1st - 1.765 Direct 1.000	LOW 1.765	REVERSE 1.765
Max. upshift speeds—drive range		59 (V6) 64 (V8)		
Max. kickdown speeds—drive range		54 (V6) 59 (V8)		
Torque convertor	Number of elements	3		
	Max. ratio at stall	2.7 (low) 1.9 (high)		
	Type of cooling (air, water)	Water		
Lubricant	Capacity—refill (pt.)	21		
	Type recommended	(b)		
Special transmission features		Variable Pitch Stator - High Angle at Idle and just prior to kick-down detent.		

DRIVE UNITS—PROPELLER SHAFT

Number used		One
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Manual transmission	3.25 x 60.00 x .065
	Overdrive transmission	
	Automatic transmission	3.25 x 60.00 x .065

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

(Continued)

(a) Optional

(b) Automatic Transmission Fluid Type "A" (Suffix "A" must be identified by AQ-ATF embossed on can or use Buick "Special Oil".

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MODEL	SPECIAL		SKYLARK
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DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		
Universal joints	Make		Saginaw
	Number used		2
	Type (ball and trunnion, cross, other)		Cross
	Bearing	Type (plain, anti-friction)	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—REAR AXLE

Description (see instructions)			Salisbury Hypoid - Semi-Floating
Limited Slip differential, type			Optional
Drive Pinion Offset			1.50
No. of differential pinions			2
Gear ratios (Std. equip.)	Manual transmission		3.23
	Overdrive transmission		Not Available
	Automatic transmission		3.08
Ring gear O.D. (std. ratio)			8.125
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		2.5
	Type recommended		MIL - L-2105B
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	90

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.08	3.36
No. of teeth	Pinion	12	
	Ring gear	37	

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DRIVE UNITS—WHEELS

Type & material			Disc Steel	
Rim (size and flange type)		Std.	14 x 5.00 "J"	
		Opt.	14 x 6.00 "K" (d)	
Attachment	Type (bolt or stud)		Stud	
	Circle diameter		4.750	
	Number and size		Five - .4375-20	

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply		6.50-14 (2)
	Type - Nylon, etc.		Rayon
Rev/mile at 50 mph.			819
Inflation press.(cold)	Front		24
	Rear		24
Optional tires - size and ply			7.00-14 (2) Sedans 7.50-14 (2) 4035-4135

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)			Duo-Servo
Self adjusting (std., opt., N.A.)			Standard
Hydraulic system type (single, dual, etc.)			Single
Power brake make & type (remote, integral, etc.)			Delco Moraine or Kelsey Hayes (Int. Vac. Susp.) (a)
Effective area (sq. in.)*			142.1
Gross lining area (sq. in.)**			155.8
Swept drum area (sq. in.)***			268.6
Percent brake effectiveness—front			56.2
Drum	Diameter	Front	9.495/9.505
		Rear	9.495/9.505
	Type and material		Composite Cast Iron
Wheel cylinder bore	Front		1.0625
	Rear		.9375
Master cylinder bore			1.00
Available pedal travel			6.70 (b)
Line pressure at 100 lb. pedal load			500 psi (c)
Shoe clearance adjustment			.015

(Continued)

* Excludes rivet holes, grooves, chamfers, etc.
** Includes rivet holes, grooves, chamfers, etc.
*** Total swept areas for four brakes:
Widest lining contact width for each brake x its drum circumference.

(a) Optional Equipment
(b) 4.00" travel when power brake equipped.
(c) With 30# pedal load @ 20" vacuum.
(d) Model 4035-4135 with optional 7.50-14 tires.

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Primary-Extruded Molded
		Size (length x width x thickness)	Front wheel	7.520 X 2.50 X .196
			Rear wheel	7.520 X 2.00 X .196
		Segments per shoe		One
	Rear Shoe	Material		Secondary-Extruded Molded
		Size (length x width x thickness)	Front wheel	9.793 X 2.50 X .196
			Rear wheel	9.793 X 2.00 X .196
		Segments per shoe		One

BRAKES—PARKING

Type of control		Step-On - (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

FRAME or UNITIZED CONSTRUCTION

Type and description

PERIMETER TYPE

SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)*

Provision for car leveling		None
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"
Other special features		None

SUSPENSION—FRONT

Type and description	Coil Springs and Ball Joint

* Air Suspension:
Air spring type
Compressor data
type
make
drive ratio
Normal operating pressures
spring rates
leveling data

(Continued)

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SUSPENSION FRONT (cont.)

Spring	Type			Coil	
	Material			SAE 9260 Steel	
	Size (coil design height & I.D.; bar length x dia			11.40 Design Height - 3.60 ID 133.25 x .596	132.75 x 580 133.38
	Spring rate (lb. per in.)			275	
	Rate at wheel (lb. per in.)			85	
	Design load (lb. @ design height)			1510	
Stabilizer	Type (link, linkless, frameless)			Link	
	Material & bar diameter			1070 - .750	

STEERING

Mechanical (std., opt., NA)				Standard	
Power (std., opt., NA)				Optional	
Wheel diameter				16"	
Turning diameter	Outside front	Wall to wall (l. & r.)		41.5	
		Curb to curb (l. & r.)		40.8	
	Inside rear	Wall to wall (l. & r.)		24.9	
		Curb to curb (l. & r.)		25.7	
Outside wheel angle with inside wheel at 20°				18° 38'	
Mechanical	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	
	Trade name			Saginaw Power Steering (a)	
	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	

(a) Optional Equipment.

(Continued)

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MODEL	SPECIAL		SKYLARK
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STEERING (cont)

Steering Axis	Inclination at camber (deg.)		$8^{o}0'$ at $1^{o}0'$
	Bearings (type)	Upper	Ball Joint Suspension Used
		Lower	Ball Joint Suspension Used
		Thrust	Ball Joint Suspension Used
Wheel alignment (range and preferred)	Caster (deg.)		$1^{o} \pm 1/4^{o}$
	Camber (deg.)		$1^{o} \pm 1/4^{o}$
	Toe-in (outside tread-inches)		.21 - .31
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.2945
		Outer bearing	.7494
	Thread size		.75 - 20 NEF
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description				Coil Springs
Drive and torq. taken through (see page 17)				Control Arms
Spring	Type			Coil
	Material			9260
	Size (length x width, coil design height and I.D.; bar length & dia.)			Design Height 8.52 - 5.50 I.D. 129.00 x .560
	Spring rate (lb. per in.)			106
	Rate at wheel (lb. per in.)			99
	Design load (lb. at design height)			800@8.52 850@8.52
	Mounting insulation type			Not Used
	If leaf	No. of leaves		Not Used
		Inserts	Type and size	Not Used
			Material	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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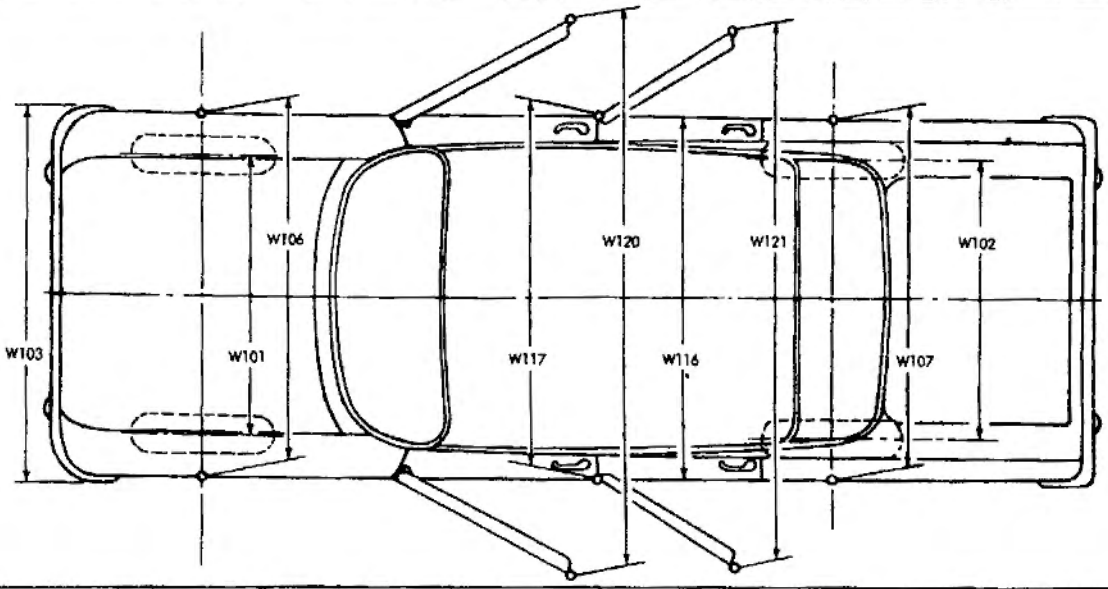
CAR AND BODY DIMENSIONS—GENERAL

NOTE: Included in the dimension definitions listed on pages 34-36 are those which have been adopted by SAE. These are indicated by a number following the type of dimension, e.g., L3. Additional dimensions have been added by the AMA Specifications Review Committee. These are shown by an additional letter, e.g., H67a. The symbol "a" has been added as a suffix to denote a dimension adopted by the AMA and submitted to the SAE for approval. The dimensions are developed from the following basic points:

1. Body dimensions are for all body styles.
2. All interior dimensions are taken with manikin 15.0 inches outboard of car centerline unless otherwise stated.
3. All interior dimensions are measured with the front seat in the lowest and rearmost position.
4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
5. The SAE manikin with 90th percentile leg length will be used for recording purposes.
6. The H Point is the pivot center of the manikin's torso and thigh.
7. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

EXTERIOR WIDTH DIMENSIONS



MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
Tread - front	W101	58.0		
Tread - rear	W102	58.0		
Maximum overall car width	W103	73.4		
Maximum overall body width	W116	73.6		
Maximum body width at #2 pillar	W117	72.3		
Front fender overall width	W106	73.44		
Rear fender overall width	W107	73.5		
Maximum overall car width - front doors open	W120a	134.1	134.2	
Maximum overall car width - rear doors open	W121a	133.1		133.2

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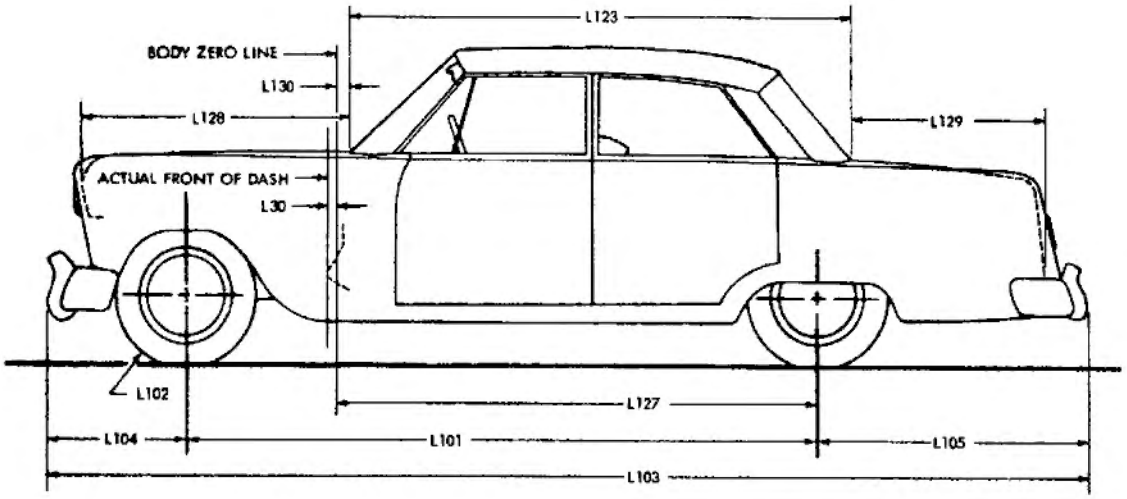
EXTERIOR LENGTH DIMENSIONS



MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
Body zero line to actual front of dash	L30	0.00		
Wheelbase	L101	115.0		
Overhang – front	L104	34.6		
Overhang – rear	L105	53.9		
Overall length	L103	203.5		
Hood length at car centerline	L128a	N.A.		
Body upper structure length at car centerline	L123	96.2		96.05
Deck length at car centerline	L129a	44.72		44.87
Body zero line to centerline of rear wheels	L127	99.5		
Body zero line to windshield cowl point	L130a	10.68		
Tire size	L102	6.50-14		

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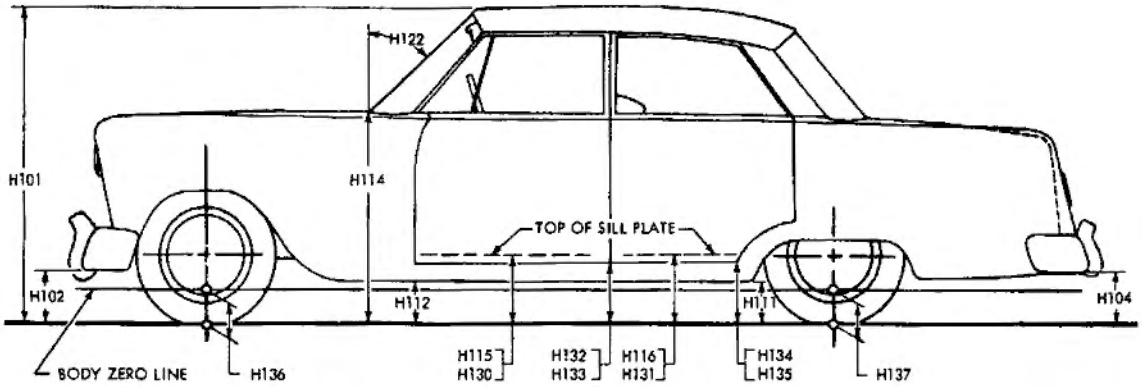
EXTERIOR HEIGHT DIMENSIONS



MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
Overall height	H101	54.4		
Hood at rear to ground	H114	36.2		
Rocker panel to ground – front	H112a	8.8		
Rocker panel to ground – rear	H111	8.4		
Step height – front (design load) F	H115			
Step height – rear (design load) F	H116			
Step height – front (curb load)	H130	12.8		
Step height – rear (curb load)	H131	12.8		
Bottom of door to ground, open – front	H132	11.7		
Bottom of door to ground, closed – front	H133	11.5		
Bottom of door to ground, open – rear	H134	11.1		
Bottom of door to ground, closed – rear	H135	11.3		
Front bumper to ground	H102	12.5		
Rear bumper to ground	H104	12.9		
Windshield slope angle	H122	48.8°		
Body zero to ground – front	H136a	5.30		
Body zero to ground – rear	H137a	5.30		

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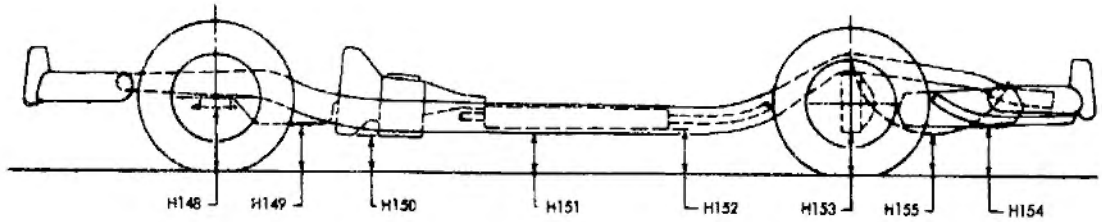
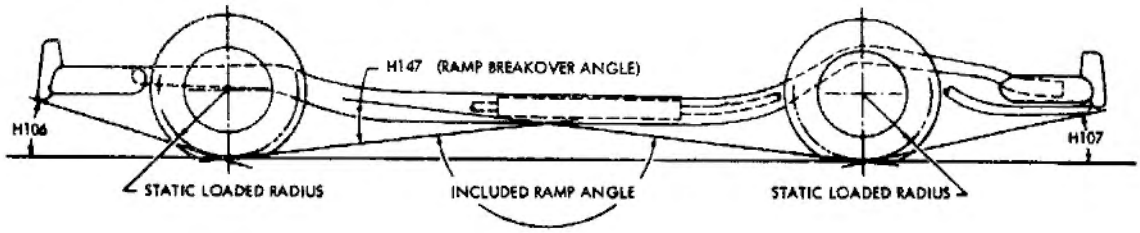
GROUND CLEARANCE DIMENSIONS





MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
Angle of approach	H106	25°05'		
Angle of departure	H107	15°07'		
Ramp breakover angle	H147	13°42'		
Front suspension to ground	H148	5.90		
Oil pan to ground	H149	6.30		
Flywheel housing to ground	H150	5.90		
Frame structure to ground	H151	6.22		
Exhaust system to ground	H152	5.80		
Rear axle differential to ground	H153	6.66		
Fuel tank to ground	H154	8.04		
Spare tire well to ground	H155	N. A.		
Minimum running ground clearance	H156	6. 0		

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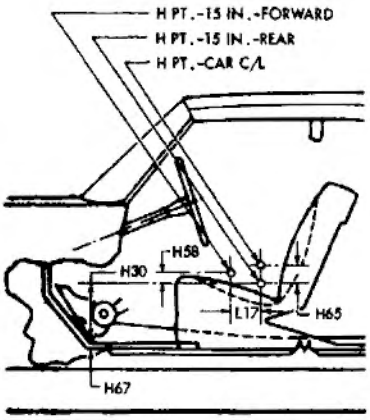
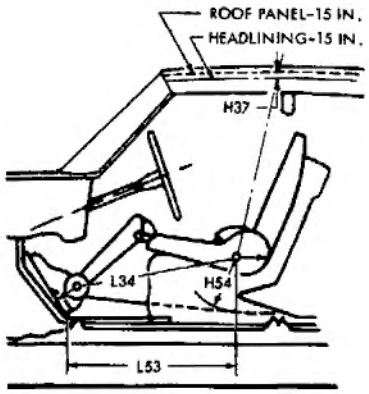
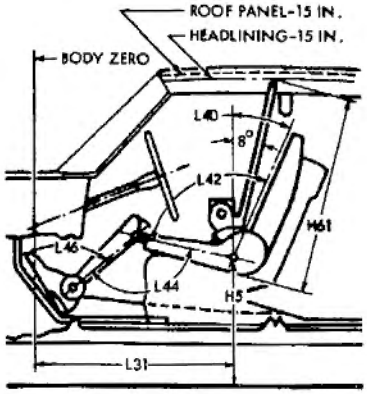
FRONT COMPARTMENT DIMENSIONS







MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
H Point to body zero line	L31a	42.18		
H Point to ground	H5a	19.5		
Effective head room	H61a	38.2		
Headlining to roof height	H37	.60		
Maximum effective leg room - accelerator	L34a	42.0		
H Point to heel point	H30a	8.6		
Depressed floor covering thickness	H67a	.2		
Back angle	L40a	26.0°		
Hip angle	L42a	99°		
Knee angle	L44a	130°		
Foot angle	L46a	88°		
H Point differential, side to center	H65a	N. A.		
H Point to tunnel	H54a	N. A.		
H Point to accelerator floor point	L53a	34.4		
H Point travel	L17a	4.0		
H Point rise	H58a	.06		

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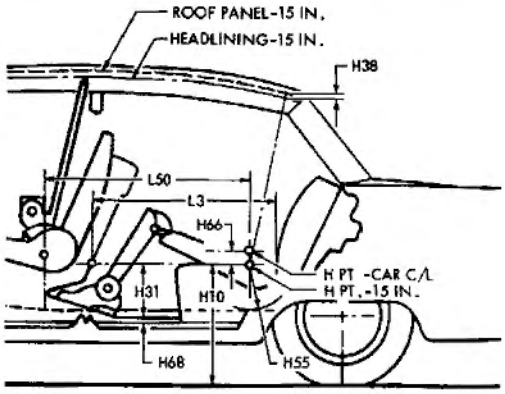
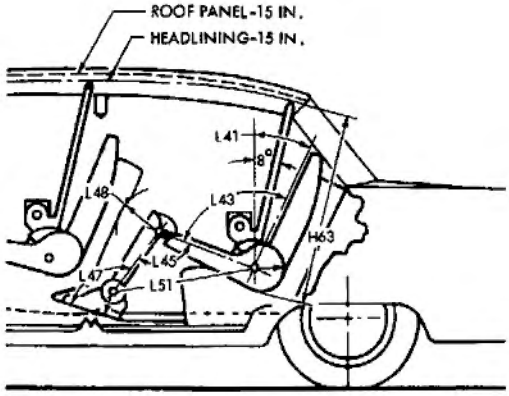
REAR COMPARTMENT DIMENSIONS





MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
H Point couple distance	L50a	33.52		
H Point to ground	H10a	19.3		
Effective head room	H63a	37.2		
Headlining to roof height	H38	.6		
Minimum effective leg room	L51a	36.5	36.4	
H Point to heel point	H31a	10.7	10.6	
Depressed floor covering thickness	H68a	.4	.5	
Minimum knee room	L48a	3.7		
Rear compartment room	L3	27.1		
Back angle	L41a	27.0°		
Hip angle	L43a	89.0°	88.0°	
Knee angle	L45a	97.0°	96.0°	
Foot angle	L47a	117.0°	116.0°	
H Point differential, side to center	H66a	.7		
H Point to tunnel	H55a	6.1		

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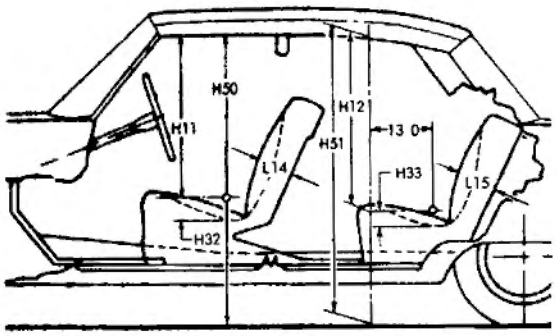
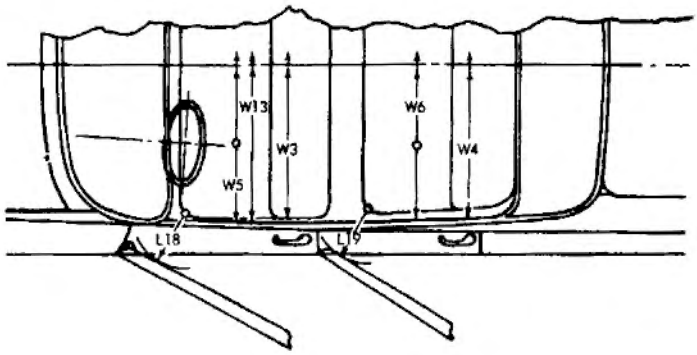
MAKE OF CAR BUICK MODEL YEAR 1964 DATE ISSUED 11-15-62 REVISED(•) 6-5-63

SEAT AND ENTRANCE DIMENSIONS





MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
Shoulder room – front	W3a	N. A.		
Hip room – front	W5a	N. A.		
Seat width – front	W16a	53.2		
Upper body opening to ground – front	H50a	49.0		
Entrance height – front	H11a	29.5		
Entrance foot clearance – front	[illegible]	14.9		
Seat cushion deflection – front	H32	3.7		
Seat back thickness – front	L14	5.9		
Shoulder room – rear	W4a	N. A.		
Hip room – rear	W6a	N. A.		
Upper body opening to ground – rear	H51a	48.7		
Entrance height – rear	H12a	29.4		
Entrance foot clearance – rear	L19	11.7		
Seat cushion deflection – rear	H33a	4.4		
Seat back thickness – rear	L15	6.5		

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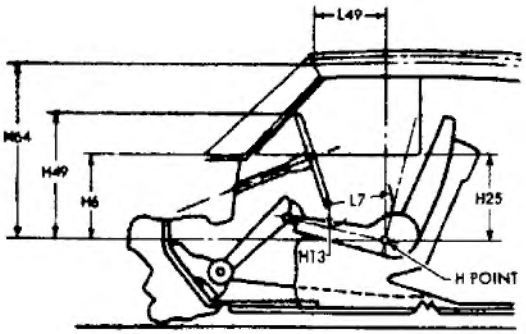
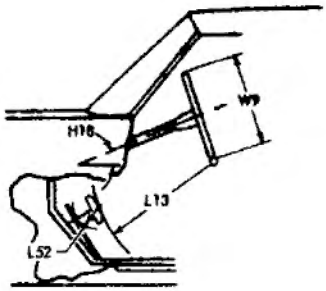
VISION AND CONTROL DIMENSIONS





MODEL	Ref. No.	SPECIAL		SKYLARK
		4069	4169	4369
H Point to windshield bottom DLO	H6a	18.5		
H Point to windshield upper DLO	H64a	30.6		
H Point to windshield upper DLO	L49a	14.6		
Belt height – front	H25a	16.8		
Steering wheel center to centerline of car	W7	NA.		
Steering wheel maximum outside diameter	W9	16.0		
Steering column angle – horizontal	H18	19.5°		
H Point to top of steering wheel	H49a	22.6		
Steering wheel torso clearance	L7a	11.2		
Steering wheel thigh clearance	H13a	24.4		
Brake pedal knee clearance	L13	4.3		
Brake pedal to accelerator	L52a	4.8		
Tumble-home	W122a	18.0		

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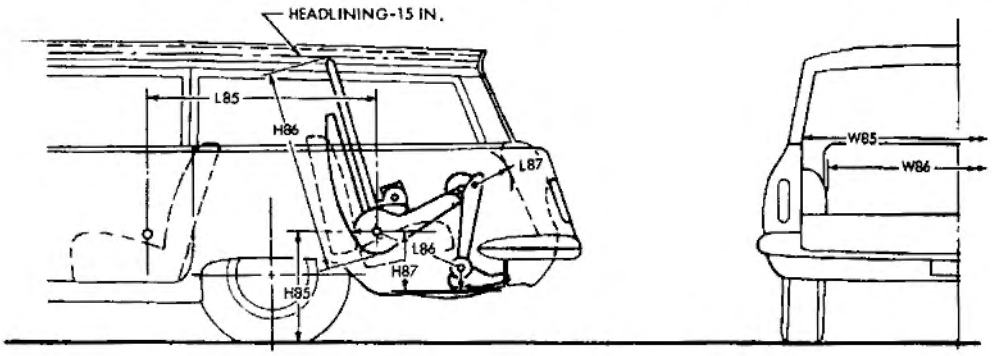
LUGGAGE COMPARTMENT

MODEL	Ref. No.	SPECIAL 4069	SPECIAL 4169	SKYLARK 4369
Usable luggage capacity (See instructions)				
Liftover height*	H301a			
Position of spare tire storage				
Method of holding lid open				

THIRD SEAT DIMENSIONS (NO 3-SEAT STYLES AVAILABLE)



MODEL	Ref. No.		
Seat facing direction			
Shoulder room	W85a		
Hip room	W86a		
H Point couple distance	L85a		
H Point to ground	H85a		
Effective head room	H86a		
Effective leg room	L86a		
H Point to heel point	H87a		
Knee room	L87a		
Back angle	L88a		
Hip angle	L89a		
Knee angle	L90a		
Foot angle	L91a		

* Vertical dimension from luggage compartment lower opening to ground.

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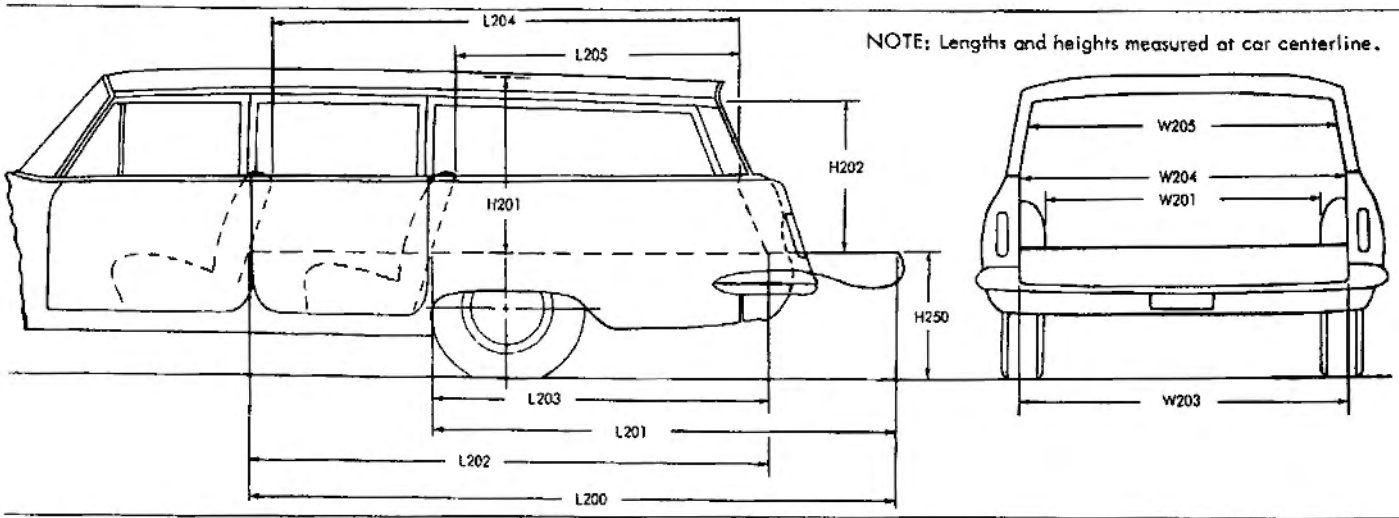
STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	SPECIAL 4035	SPECIAL 4135
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	114.5	
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	81.6	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.1	
Floor length from back of second seat at floor level to inside of closed tail gate	L203	59.2	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	80.9	
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	46.5	
Maximum width of cargo space at floor - specify location	W200a	60.8	
Minimum distance between wheel houses at floor level	W201	44.4	
Rear end opening width at floor	W203	54.9	
Rear end opening width at belt	W204	51.2	
Maximum width of rear opening above belt	W205	53.0	
Maximum height - Floor covering to headlining at centerline of rear axle	H201	31.4	
Maximum height of rear opening - tail and lift gates open	H202	28.6	
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250	----	
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)			
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$		86.44	

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MODEL	SPECIAL		SKYLARK
	4069	4169	4369

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors			Front
	Rear doors			Front
Type of finish (lacquer, enamel, other)				Acrylic Lacquer
Hood hinge location (front, rear)				
Hood counterbalanced (yes, no)				
Hood release control (internal, external)				
Vehicle (Serial) No. Location				
Engine No. Location				
Theft protection - type				
Vent window control method (crank, friction pivot)		Front		
		Rear		
Seat cushion type		Front		
		Rear		
Seat back type		Front		
		Rear		
Windshield type (single curved, compound curved, other)				
Rear window type (flat, curved, one piece, three piece)				
Side glass type (curved, flat)				
Side glass exposed surface area				
Windshield glass exposed surface area				
Backlight glass exposed surface area				
Total glass exposed surface area				

MISSING
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DIMENSION DEFINITIONS

W3a SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W4a SHOULDER ROOM - REAR. Measured in the same manner as W3a.

W5a HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.

W6a HIP ROOM - REAR. Measured in the same manner as W5a.

W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR. Measured horizontally from steering wheel center to centerline of car. The point at steering wheel center is located in the surface plane of wheel.

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

W16a SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.

W85a SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3a.

W86a HIP ROOM - THIRD SEAT. Measured in the same manner as W5a.

W101 TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.

W102 TREAD - REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions.

W106 FRONT FENDER OVERALL WIDTH. Measured at centerline of front wheels, excluding moldings.

W107 REAR FENDER OVERALL WIDTH. Measured at centerline of rear wheels, excluding moldings.

W116 MAXIMUM OVERALL BODY WIDTH. Measured across body, excluding hardware and applied moldings, but including fenders when integral with body.

W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

W120a MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.

W121a MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120a.

W122a TUMBLE-HOME. The angle from vertical to the front door glass outer surface or the chord of a curved door glass, measured at the front H Point station.

L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at a height tangent to the top of rear seat cushion.

L7a STEERING WHEEL TORSO CLEARANCE. The minimum distance from the back edge of steering wheel, in straight-ahead position, to the Torso Line.

L13 BRAKE PEDAL KNEE CLEARANCE. The minimum dimension from the lower edge of the steering wheel to the brake pedal face centerline.

L14 SEAT BACK THICKNESS - FRONT. The maximum thickness of the seat back, excluding bolsters.

L15 SEAT BACK THICKNESS - REAR. Measured in the same manner as L14.

L17a H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

L18 ENTRANCE FOOT CLEARANCE - FRONT. The minimum horizontal dimension between seat and normal line of door or pillar at a height between the sill plate bead and 4.0 inches above the bead. Door should be in the maximum hold-open position.

L19 ENTRANCE FOOT CLEARANCE - REAR. Measured in the same manner as L18 on four-door models. On two-door styles, the minimum dimension between rear corner of front seat, with front seat back tilted forward, and trimmed lock pillar, built-in quarter armrest panel, or rear seat cushion at a height between the sill plate bead and 4.0 inches above the bead.

L30 BODY 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.

L31a H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.

L34a MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the right foot on accelerator pedal.

L40a BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.

L41a BACK ANGLE - REAR. Measured in the same manner as L40a.

L42a HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.

L43a HIP ANGLE - REAR. Measured in the same manner as L42a.

L44a KNEE ANGLE - FRONT. The angle between a line from H Point to knee pivot center and a line from the knee pivot center to the ankle pivot center.

L45a KNEE ANGLE - REAR. Measured in the same manner as L44a.

L46a FOOT ANGLE - FRONT. The angle between a line extended from the knee pivot center through the ankle pivot center and a line tangent to the sole and heel of manikin bare foot.

L47a FOOT ANGLE - REAR. Measured in the same manner as L46a.

L48a MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.

L49a H POINT TO WINDSHIELD UPPER DLO. The horizontal dimension from H Point to the point of tangency of horizontal line of vision (described in dimension H64a) with body upper structure.

DIMENSION DEFINITIONS (cont.)

L50a H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

L51a MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the foot positioned to nearest interference between seat structure and toe, instep or lower leg.

L52a BRAKE PEDAL TO ACCELERATOR. The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.

L53a H POINT TO ACCELERATOR FLOOR POINT. The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.

L85a H POINT COUPLE DISTANCE – THIRD SEAT. The horizontal dimension from the second seat H Point to the third seat H Point.

L86a EFFECTIVE LEG ROOM - THIRD SEAT. Measured in the same manner as L51a. With rear-facing third seat,foot is positioned in foot well or to nearest interference with rear end or rear closure.

L87a KNEE ROOM - THIRD SEAT. Measured in the same manner as L48a. With rear-facing third seat,dimension is measured to rear closure.

L88a BACK ANGLE - THIRD SEAT. Measured in the same manner as L40a.

L89a HIP ANGLE - THIRD SEAT. Measured in the same manner as L42a.

L90a KNEE ANGLE - THIRD SEAT. Measured in the same manner as L44a.

L91a FOOT ANGLE - THIRD SEAT. Measured in the same manner as L46a.

L101 WHEELBASE.

L102 TIRE SIZE.

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 theoretical intersection of extended windshield glass plane and normal cowl surface to the theoretical intersection of extended back window glass plane and normal deck surface; or in the case of a Fastback roof or Station Wagon, to back glass lower reveal molding, or rubber when molding is not used.

L127 BODY ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L128a HOOD LENGTH AT CAR CENTERLINE. The horizontal dimension from the foremost point on sheet metal hood surface, excluding series identification or ornamentation, to the theoretical intersection of extended windshield glass plane and normal cowl surface.

L129a DECK LENGTH AT CAR CENTERLINE. The horizontal dimension from the rearmost point of the body sheet metal (visible above bumper), excluding series identification or ornamentation, to the theoretical intersection of extended back window glass plane and normal deck surface.

L130a BODY ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from body zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

H5a H POINT TO GROUND - FRONT. Vertical dimension.

H6a H POINT TO WINDSHIELD BOTTOM DLO. Vertical dimension.

H10a H POINT TO GROUND - REAR. Vertical dimension.

H11a ENTRANCE HEIGHT - FRONT. The vertical dimension from H Point to upper trimmed body opening.

H12a ENTRANCE HEIGHT - REAR. The vertical dimension from H Point to the upper trimmed body opening at a section 13.0 inches forward of the H Point.

H13a STEERING WHEEL THIGH CLEARANCE. The minimum dimension from the bottom of steering wheel, in straight-ahead position, to centerline of thigh.

H18 STEERING COLUMN ANGLE - HORIZONTAL. The angle the centerline of steering column makes with the horizontal.

H25a BELT HEIGHT - FRONT. The vertical dimension from H Point to bottom of side window DLO.

H30a H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.

H31a H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.

H32a SEAT CUSHION DEFLECTION - FRONT. The vertical dimension from a point on the undepressed seat cushion to the depressed seat cushion. Measured at the H Point station.

H33a SEAT CUSHION DEFLECTION - REAR. Measured in the same manner as H32a.

H37 HEADLINING TO ROOF HEIGHT - FRONT. The dimension from the intersection of the headlining and the extended effective head room line to the roof panel. Measured perpendicularly to the roof panel.

H38 HEADLINING TO ROOF HEIGHT - REAR. Measured in the same manner as H37.

H49a H POINT TO TOP OF STEERING WHEEL. The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.

H50a 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.

DIMENSION DEFINITIONS (cont.)

H51a 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.

H54a H POINT TO TUNNEL - FRONT. The minimum dimension from the H Point, at car centerline, to top of tunnel.

H55a H POINT TO TUNNEL - REAR. Measured in the same manner as H54a.

H58a H POINT RISE. The vertical dimension between the H Point in the most forward and rearward seat positions.

H61a 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.

H63a EFFECTIVE HEAD ROOM - REAR. Measured in the same manner as H61a.

H64a H POINT TO WINDSHIELD UPPER DLO. Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.

H65a H POINT DIFFERENTIAL, SIDE TO CENTER - FRONT. The vertical dimension from side occupant H Point to center occupant H Point.

H66a H POINT DIFFERENTIAL, SIDE TO CENTER - REAR. Measured in the same manner as H65a.

H67a DEPRESSED FLOOR COVERING THICKNESS - FRONT. The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.

H68a DEPRESSED FLOOR COVERING THICKNESS - REAR. Measured same as H67a.

H85a H POINT TO GROUND - THIRD SEAT. Vertical dimension.

H86a EFFECTIVE HEAD ROOM - THIRD SEAT. Measured in the same manner as H61a.

H87a H POINT TO HEEL POINT - THIRD SEAT. Measured in the same manner as H31a.

H101 OVERALL HEIGHT. Measured with full design load.

H102 FRONT BUMPER TO GROUND. Minimum dimension.

H104 REAR BUMPER TO GROUND. Minimum dimension.

H106 ANGLE OF APPROACH. Minimum angle between ground and a line tangent to arc of front tire static loaded radius and touching the limiting point of interference on front bumper, bumper guard, or gravel deflector.

H107 ANGLE OF DEPARTURE. Minimum angle between ground and a line tangent to arc of rear tire static loaded radius and touching the limiting point of interference on rear bumper, bumper guard, gravel deflector, tail pipe, fender or other interfering structure.

H111 ROCKER PANEL TO GROUND – REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at front of rear wheel opening.

H112a ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at foremost point of rocker panel.

H114 HOOD AT REAR TO GROUND. Measured from hood opening line on shroud, exclusive of moldings.

H115 STEP HEIGHT - FRONT (DESIGN LOAD). The vertical dimension from top of sill plate bead, at C/L of front door sill plate, to ground.

H116 STEP HEIGHT - REAR (DESIGN LOAD). Measured in same manner as dimension H115.

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.

H130 STEP HEIGHT - FRONT (CURB LOAD). The vertical dimension from top of sill plate, at C/L of front door sill plate, to ground.

H131 STEP HEIGHT - REAR (CURB LOAD). Measured in same manner as H130.

H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT. Measured from bottom outside corner of door with door in maximum hold-open position.

H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT. Same point on door as H132 dimension, with door closed.

H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR. Measured in same manner as H132.

H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR. Measured in same manner as H133.

H136a BODY ZERO TO GROUND - FRONT. A vertical dimension measured at front wheel centerline.

H137a BODY ZERO TO GROUND - REAR. A vertical dimension measured at rear wheel centerline.

H147 RAMP BREAKOVER ANGLE. 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.

H148 FRONT SUSPENSION TO GROUND. Minimum clearance measured from lower control arm inner shaft or lowest point on the car centerline.

H149 OIL PAN TO GROUND. Minimum clearance measured from sheet metal or drain plug.

H150 FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND. Minimum clearance.

H151 FRAME STRUCTURE TO GROUND. Minimum clearance measured approximately midway between front and rear axles. In this measurement, cross bars and X-members shall be considered part of frame.

H152 EXHAUST SYSTEM TO GROUND. Minimum clearance. Specify location.

H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND. Minimum clearance.

H154 FUEL TANK TO GROUND. Minimum clearance measured from sheet metal or drain plug, but excluding supports or straps.

H155 SPARE TIRE WELL TO GROUND. Minimum clearance.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

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