

# AMA Specifications—Passenger Car

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MANUFACTURER	BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME	BUICK SPECIAL DELUXE - SKYLARK (6 CYL)
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	2 Door 6 Passenger Thin Pillar Coupe	43327
	4 Door 6 Passenger Thin Pillar Sedan	43369
Skylark	2 Door 6 Passenger Hardtop Coupe	43537
	4 Door 6 Passenger Thin Pillar Sedan	43569

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MAKE OF CAR BUICK MODEL YEAR 1968 DATE ISSUED 9-9-67 REVISED (•) 11-15-67

## 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 43369	SKYLARK 43569
<b>WIDTH</b>			
Track - Front	W101	59.0	
Track - Rear	W102	59.0	
Maximum overall car width	W103	75.6	
Body width at No. 2 pillar	W117	74.6	
<b>LENGTH</b>			
Body "O" to front of dash	L 30	0"	
Wheelbase	L101	116.0 (a)	
Overall car length	L103	204.7 (b)	
Overhang - front	L104	37.47	
Overhang - rear	L105	51.19	
Body upper structure length	L123		
Body "O" line to $\text{C}$ of rear wheel	L127	99.50	
Body "O" line to w/s cowl point	L130		
<b>HEIGHT</b>			
Overall height	H101	54.2	
Cowl height	H114	38.49	
Deck height	H138		
Rocker panel - front	To ground	8.7	
	From front wheel $\text{C}$	27.19	
Rocker panel - rear	To ground	8.5	
	From rear wheel $\text{C}$	25.80	
Windshield slope angle	H122	48.8	
<b>GROUND CLEARANCE</b>			
Bumper to ground - front	H102	12.08	
Bumper to ground - rear	H104	12.04	
Angle of approach	H106	24° 30'	
Angle of departure	H107	17° 30'	
Ramp breakover angle	H147	12° 20'	
Min. running clearance (Specify)	H156	5.46 (Exhaust Pipe)	

(a) 112.0 Inches - All Coupe Styles

(b) 200.7 Inches - All Coupe Styles

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MODEL	SAE Ref. No.	SPECIAL DELUXE 43369	SKYLARK 43569
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## FRONT COMPARTMENT

Effective head room	H61		38.7
Max. eff. leg room – accelerator	L34	41.3	41.5
H Point to Heel point	H30	8.1	7.7
H Point travel	L17		4.7
Shoulder room	W 3		58.3
Hip room	W 5		59.6
Upper body opening to ground	H50		48.8

## REAR COMPARTMENT

H Point couple distance	L50		32.8
Effective head room	H63		37.3
Min. effective leg room	L51		34.8
H Point to Heel point	H31	10.5	10.6
Min. knee room	L48		2.3
Rear Compartment room	L 3		25.9
Shoulder room	W 4		57.0
Hip room	W 6		59.4
Upper body opening to ground	H51		48.5

## LUGGAGE COMPARTMENT

Usable luggage capacity	V 1		13.5
Liftover height	H195		28.7
Position of spare tire storage			Horizontal
Method of holding lid open			Torsion Rods

## STATION WAGON – THIRD SEAT

Shoulder Room	W85	No Wagons This Series	
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Seat facing direction			

## STATION WAGON – CARGO SPACE

Cargo length at floor – front seat	L202	No Wagons This Series	
Cargo length at belt – front seat	L204		
Cargo width – wheelbase	W201		
Opening width at belt	W204		
Maximum cargo height	H201		
Rear opening height	H202		
Cargo volume index (cu. ft.) W4 x L 204 x H201 1728	V2		

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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 & SKYLARK	250	1-Bbl.	8.5	155 @ 4200	235 @ 1600	Manual (3)	3.23 (b) (Std) - N.A. (Economy) N.A. (Perf) 3.42 or 3.91 (S.C.O.)
	250	1-Bbl.	8.5	155 @ 4200	235 @ 1600	Automatic	2.93(b) (Std)-3.23(a) (Perf) 3.91 or 3.42 (S.C.O.) 3.23(a) Std. with A/C No A/C economy - 3.42 Perf. with A/C

(a) Canadian built car axle ratios.  
Manual Automatic  
 3.31 (Std) 3.07 (Std) 3.31 (Std w/A.C.)  
 No Perf.

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MODEL SPECIAL DELUXE SKYLARK  
43369 43569

## ENGINE - GENERAL

Type, no. cyls., valve arr.	"In - Line" 6 Valve-In-Head	
Bore and stroke (nominal)	3.875 x 3.530	
Piston displacement, cu. in.	250	
Bore spacing (C to C)	4.4	
No. system	L. Bank	1-2-3-4-5-6 (In-Line)
(front to rear)	R. Bank	- - - - -
Firing order	1-5-3-6-2-4	
Compres. ratio (nominal)	8.5	
Cylinder Head Material	Cast Alloy Iron	
Cylinder Block Material	Cast Alloy Iron	
Cyl. Sleeve-Wet, dry, none	None	
Number of	Front	Two
mtg. points	Rear	One
Engine installation angle	40° 37'	
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower}}$	36.0	
Publishing max. bhp* - eng. RPM	155 @ 4200	
Publishing max. torque* (lb. ft. @ RPM)	235 @ 1600	
Recommended fuel regular - premium	Regular	

## ENGINE - PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Flat-Notched Head - Slipper Skirt		
Weight (piston only) oz.	24.16		
Clearance (limits)	Top land	.0345 - .0435	
	Skirt	Top	.0005 - .0011 (a)
		Bottom	- - - - -
Ring groove depth	No. 1 ring	.2153 - .2218	
	No. 2 ring	.2153 - .2218	
	No. 3 ring	.2093 - .2158	
	No. 4 ring	- - - - -	

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

(a) Measured 2.44" from Top of Piston

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## ENGINE - RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, coating, etc.	#1 - Cast Alloy Iron - Chrome Plated #2 - Cast Alloy Iron - Wear Resistant Coating
	Width	#1 - .0628 - .0633 -- #2 - .0623 - .0625
	Gap	.010 - .020
Oil	Description - material, coating, etc.	#3 - Multi-Piece (Two Rails & One Spacer Expander) Rails (Chrome Plated Steel) - Expander (Stainless Steel)
	Width	.1870 - .1890 (Assembled)
	Gap	.015 - .025
Expanders		In Oil Ring

## ENGINE - PISTON PINS

Material		Chromium Steel	
Length		2.990 - 3.010	
Diameter		.9270 - .9273	
Type	Locked in rod, in piston, floating, etc.	Locked in Rod	
	Bush- ing	In rod or piston	None
		Material	None
Clearance	In piston	.00015 - .00025	
	In rod	None	
Direction & amount offset in piston		Major Thrust Side (.060)	

## ENGINE - CONNECTING RODS

Material		Drop Forged Steel
Weight (oz.)		12.5
Length (center to center)		5.699 - 5.701
Bearing	Material & Type	Copper Lead Alloy or Sintered Copper Nickel Backed Babbitt on Steel
	Overall length	.807
	Clearance (limits)	.0007 - .0027
	End play	.009 - .013

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### ENGINE - CRANKSHAFT

Material		Nodular Iron		
Vibration damper type		Inertia (Rubber Mounted)		
End thrust taken by bearing (No.)		7		
Crankshaft end play		.002 - .006		
Main bearing	Material & type	Steel with Backed Insert (Copper Lead Alloy or Premium Aluminum)		
	Clearance	.0003 - .0029		
	Journal dia. and bearing overall length	No. 1	2.3004 - .752	
		No. 2	2.3004 - .752	
		No. 3	2.3004 - .752	
		No. 4	2.3004 - .752	
		No. 5	2.3004 - .752	
		No. 6	2.3004 - .752	
No. 7		2.3004 - .760		
Dir. & amt. cyl. offset		None		
Crankpin journal diameter		1.999 - 2.000		

### ENGINE - CAMSHAFT

Location		Above and to Right of Crankshaft		
Material		Cast Alloy Iron		
Bearings	Material	Steel Backed Babbitt		
	Number	Four		
Type of Drive	Gear or chain	Gear		
	Crankshaft gear or sprocket material	Steel		
	Camshaft gear or sprocket material	Bakelight & Fabric with Steel Hub		
	Timing chain	No. of links	None	
		Width	None	
Pitch		None		

### ENGINE - VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Standard	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.75	
Operating tappet clearance (indicate hot or cold)	Intake	Zero	
	Exhaust	Zero	

(Continued)

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## ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	62
		Closes (°ABC)	94
		Duration - deg.	336
	Exhaust	Opens (°BBC)	92° 30'
		Closes (°ATC)	63° 30'
		Duration - deg.	330
Valve opening overlap		125° 30'	
Intake	Material		Alloy Steel
	Overall length		4.902 - 4.922
	Actual overall head dia.		1.715 - 1.725
	Angle of seat & face		46° Seat - 45° Face
	Seat insert material		None
	Stem diameter		.3410 - .3417
	Stem to guide clearance		.0010 - .0027
	Lift (@ zero lash)		.3880
	Outer spring press. & length	Valve closed (lb. @ in.)	56-64 @ 1.66
		Valve open (lb. @ in.)	180-192 @ 1.27
	Inner spring press. & length	Valve closed (lb. @ in.)	None
		Valve open (lb. @ in.)	None
Exhaust	Material		High Alloy Steel
	Overall length		4.913 - 4.933
	Actual overall head dia.		1.495 - 1.505
	Angle of seat & face		46° Seat - 45° Face
	Seat insert material		None
	Stem diameter		.3410 - .3417
	Stem to guide clearance		.0010 - .0027
	Lift (@ zero lash)		.3880
	Outer spring press. & length	Valve closed (lb. @ in.)	56-64 @ 1.66
		Valve open (lb. @ in.)	180-192 @ 1.27
	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	Nozzle
	Cylinder walls	Connecting Rod Bearing Throw - Off

(Continued)



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## ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb engine rpm)	30 - 45 @ 1500	
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)	Complete	
Capacity of oil case, less filter-refill (qt.)	4.0	
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 GM 6041M	

## ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single	
Muffler No. & type (reverse flow, straight thru, separate resonator)	Reverse Flow	
Exhaust pipe dia. (O.D., wall thick.)	Branch	- - - -
	Main	2.00 - .060
Tail pipe dia. (O.D. & wall thickness)	1.75 - .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	Top Rear of Rocker Cover
	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 arrester (screen, check valve, other)	Check Valve and Screen

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**MODEL** SPECIAL DELUXE 43369 SKYLARK 43569

**ENGINE – EXHAUST EMISSION CONTROL**

Type (Air injection, engine modifications, other)		Combustion Control	
Air Injection Pump	Type	Not Used	
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
	Filter (describe)		
Air Injection System	Air distribution (head, manifold, etc.)		
	Point of entry		
	Injection tube I.D.		
	Check valve type		
	Backfire protection (type)		
Carburetor	Make	Rochester	
	Model	MV	
	Barrel size	1.560	
	Idle speed	Drive	500
		Neutral	700
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)	None	
	Make	Delco - Remy	
	Model	1110439	
	Cent'fugal adv. in crank degrees @ eng. rpm	Start (rpm)	900
		Intermed. points deg. @ rpm	21 @ 1950
		Max. deg. @ rpm	32 @ 4100
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg)	. . . . . 7
		Intermed. points deg. @ in. Hg	. . . . . 23 @ 16
Max. deg. @ in.		. . . . . 25.5 @ 25	
	Vacuum Source	Carburetor	
Timing - Crank degrees @ rpm		0° BTC (Idle)	
Cooling System (describe changes)		None	
Exhaust System (describe changes)		None	

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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.)	20 (Approx.)		
	Filler location	Rear		
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Lower Right Front of Engine		
	Pressure range	4.0 - 5.0 psi @ Pump Outlet		
Vacuum booster (std., optional, none)		None		
Fuel Filter	Type	Fine Mesh Plastic	1" Long Paper	
	Locations	Fuel Tank	Carb, Inlet	
Carburetor	Choke type		Automatic (Remote)	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Oiled Paper Element	
		Optional	Heavy Duty Dual Stage Element	
	Idle speed (spec. neutral or drive)	Manual	700 in Neutral (A/C Same with A/C off)	
Automatic		500 in Drive (A/C Same with A/C on)		
Idle A/F mix.				

### CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
Special Deluxe and Skylark	250	Manual (3)	Rochester	MV	1-1 Bbl	1.560
	250	Automatic	Rochester	MV	1-1 Bbl	1.560

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MODEL SPECIAL DELUXE 43369 SKYLARK 43569

### 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)	192 - 198	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	60 @ 4400	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
Bearing type		Double Row	
By-pass recirculation type (inter., ext.)		Internal	
Radiator core type (cellular, tube and fin, other)		Cross Flow	
Cooling system capacity	With heater (qt.)	11.3 (Std.)	
	Without heater (qt.)	10.0	
	Opt. equipment-specify (qt.)	13.04 (A/C)	
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	Upper	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing		4 (76° - 104°) Std. (a)
	Diameter		18" (Std.) 18" (A/C)
	Ratio-fan to crankshaft rev		.95 (Std.) 1.16 (A/C)
	Fan cutout type		None
	Bearing type		Double Row
Drive belts (indicate belt used by letter)	Fan		"A"
	Generator or alternator		"A"
	Water Pump		"A"
	Power Steering		"B" (Less A.I.R.)
	Air Conditioning		"C"
	Pwr. Strg. w/AIR		"D"
AIR Less Pwr. Strg.		"E"	
AIR w/Pwr. Strg.		"F"	

Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°	38°	38°					
Nominal length (SAE)	39.0	49.5	54.75	50.0	49.5	30.0					
Width	.38	.38	.47	.38	.38	.38					

(a) A/C-7 Blades (45°-50°-54°-47°-59°-45°-60°)

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## ELECTRICAL - SUPPLY SYSTEM

Battery	Make and Model		Delco #Y54
	Voltage Rtg. & Total Plates		12 - 54
	SAE Designation & Amp. Hr. Rtg.		17MJ1B-45
	Location		Right Front Engine Compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco - Remy
	Model		1100762 (a)
	Type and rating		Diode Rectified Alternator (37 amp) (b)
	Output at engine idle (neutral)		15 amp Min. (c)
	Ratio—Gen. to Cr/s rev.		2.67 (d)
Regulator	Make		Delco - Remy
	Model		1119515
	Type		Voltage Control
	Cutout relay	Closing voltage generator rpm	None
		Reverse current to open	None
	Regu- lated	Voltage	13.6 to 14.4 @ 125°
		Current	None
Voltage test conditions	Temperature	Operating	
	Load	Run 15 Minutes @ 10 amp Max.	
Other		Battery Must Be In Circuit	

## ELECTRICAL - STARTING SYSTEM

Starting Motor	Make		Delco - Remy
	Model		1107399
	Rotation (drive end view)		Clockwise (Rear)
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Manual (3) - Place shft. lvr. in neu. & depress clu. Auto. - Place sel. lvr. in neutral or park. Note: Turn ignition key clockwise - release when engine starts.
Motor Drive	Engagement type		Solenoid
	Pinion meshes (front, rear)		Rear
	Number of teeth	Pinion	9
		Flywheel	153
	Flywheel tooth face width	Manual	153
Auto.		153	
		Manual	.4010 - .4130
		Auto.	.4010 - .4130

- (a) 1100761 with automatic transmission and no accessories  
1100802 with A/C  
(b) 55 amps with A/C  
(c) 20 amps with A/C  
(d) 2,89 with A/C

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43369 SKYLARK  
43569

## ELECTRICAL - IGNITION SYSTEM

Type	Conventional - Std., Opt., N.A.		Standard
	Transistorized - Std., Opt., N.A.		Not Available
	Other (specify)		
Coil	Make		Delco - Remy
	Model		1115208
	Amps	Engine stopped	4.0
		Engine idling	1.8
Distributor	Make		Delco - Remy
	Model		1110439
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	900
		Intermediate points deg.@rpm	21 @ 1950
		Max. deg.@rpm	32 @ 4200
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	7.00
		Intermediate points, deg.@in. Hg.	23 @ 16.0
		Max. deg. in. Hg.	25.5 @ 25
	Breaker gap (in.)		.019
	Cam angle (deg.)		31° - 34°
	Breaker arm tension (oz.)		19 - 23
Timing	Crankshaft deg.@rpm		0° BTC @ 500
	Mark location		Torsional Damper
Spark Plug	Make		A.C.
	Model		46N
	Thread (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033 - .038
Cable	Conductor type		(a)
	Insulation type		Rubber with Neoprene Jacket
	Spark plug protector		Neoprene

## ELECTRICAL - SUPPRESSION

Locations & type Non-Metallic Ignition Cables

(a) Linen core impregnated with electrical conducting material.

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MODEL SPECIAL DELUXE 43369 SKYLARK 43569

## 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 Type	
Fuel indicator - type		Electrical	
Other			
Wind-shield wiper	Type - Standard	Electrical - Two Speed	
	Type - Optional	None	
Wind-shield washer	Type - Standard	Electric	
	Type - Optional	None	
Horn	Type	Solenoid	
	Number used	One	Two
	Amp draw (each)	4.5/5.5	

## DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Dry	
Type pressure plate springs		Belleville	
Total spring load (lb.)		1650 - 1850	
No. of clutch driven discs		One	
Clutch facing	Material	Woven	
	Outside & inside dia.	9.12 - 6.12	
	Total eff. area (sq.in.)	71.88	
	Thickness	.135	
	Engagement cushioning method	Spring	
Release bearing	Type & method of lubrication	Single Row Ball - (Packed & 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	2.84
	In second	1.68
	In third	1.00
	In fourth	- - -
	In reverse	2.94
Synchronous meshing, specify gears		All Forward Speeds
Shift lever location		Steering Column
Lubricant	Capacity (pt.)	3.375
	Type recommended	Multi-Purpose Gear Lubricant (MIL-L-2105B)
	SAE viscosity number	SAE 80
	SAE viscosity number	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		
Lubricant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	SAE 80
	SAE viscosity number	SAE 80



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**DRIVE UNITS – AUTOMATIC TRANSMISSION**

Trade name	Super Turbine (Optional)		
Type describe	Two-Speed with Torque Converter		
Selector location	Steering Column		
List gear ratios Selector Pattern and indicate which are used in each selector position	<u>Drive</u>	<u>Low</u>	<u>Reverse</u>
	1st Gear	1.765	1.765
	2nd Gear	1.000	- - - - -
Max. upshift speed—drive range (Nom)	61		
Max. kickdown speed—drive range (Nom)	57		
Torque converter	Number of elements	Three	
	Max. ratio at stall	2.55	
	Type of cooling (air, liquid)	Water	
	Nominal diameter		
Lubricant	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	
	Manual 4-speed trans.	Not Available	
	Overdrive transmission	Not Available	
	Automatic transmission	3.25 x 60.00 x .065 with Rubber Biscuit Element at Rear	

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

(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	27 - O.D. Fit - 27 P.D. Fit
	Spline O.D.	1.750 - 1.745 - Manual Trans. 1.166 - 1.150 - Automatic Trans.
Universal joints	Make and Mfg. No.	Saginaw
	Number used	2
	Type (ball and trunnion, cross)	Cross
	Rear attach. (u-bolt, clamp, etc.)	U - Bolt
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)		Arms
Torque taken through (torque tube or arms, springs)		Arms

## DRIVE UNITS – AXLE

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

### AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	Manual			Automatic			Canadian			
	3.23	3.91	2.93	3.42	3.23	3.91	Man.	Auto.	3.31	
No. of teeth	Pinion	13	11	14	12	13	11	13	14	13
	Ring gear	42	43	41	41	42	43	43	43	43
Ring Gear O.D.		8.500								

Usage Std. SCO Std. SCO Perf SCO Std. Std. Perf.  
 (Perf with A/C) (Std with A/C)

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### DRIVE UNITS - WHEELS

Type & material		Disc - Steel
Rim (size & flange type)	Std	14 x 5.00 "K"
	Opt.	14 x 6.00 JK (a)
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75
	Number and size	Five - .4375-20

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### DRIVE UNITS - TIRES

Standard	Size, ply rating, & ply	7.75 - 14 (2-Ply with 4-Ply Rating)	
	Type (bias, radial, etc.)	Rayon - Polyester	
	Full rated inflation Press.	Front	24
		Rear	26
	Rev. Mile at 50 MPH		785
Optional	Size, ply rating, & ply	8.25 - 14 Two-Ply with 4-Ply Rating	

### 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

(a) With oversize tire option.

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## BRAKES - SERVICE

Type (drum or disc)		Drum (Duo-Servo)		
Self adjusting (std., opt., N.A.)		Standard		
Power brake make & type (remote, int., etc.)	Std.	Not Available		
	Opt.	Delco - Moraine (Int. Vac. Susp.) (c)		
Effective area (sq. in.)*		152.0		
Gross lining area (sq. in.)**		158.1		
Swept area (sq. in.)***		268.6		
Percent brake effectiveness - front		62.4 (a)		
Drum or Disc	Diameter (nominal)	Front	9.495 - 9.505	
		Rear	9.495 - 9.505	
	Type and material		Composite Cast Iron	
	Disc (vented or solid)		Vented (Optional Fronts)	
No. pistons per caliper		4 (Optional Fronts)		
Wheel cylinder bore	Front		1.125	
	Rear		.875	
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 (b)		
Shoe clearance adjustment		.015		
Brake lining	Drum or Disc		Drum (Front Power Disc Optional)	
	Banded or riveted		Riveted	
	Front Wheel	Material		Extruded Molded
		Size (length x width x thickness)	Prim. or out-board	7.57 x 2.50 x .196 (Gross) - .096 (Net)
			Second. or in-board	9.83 x 2.50 x .265 (Gross) - .165 (Net)
		Segments per shoe		One
	Rear Wheel	Material		Extruded Molded
		Size (length x width x thickness)	Prim. or out-board	7.57 x 2.00 x .196 (Gross) - .096 (Net)
			Second. or in-board	9.83 x 2.00 x .265 (Gross) - .165 (Net)
		Segments per shoe		One

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

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

(a) Based on Wheel Cylinder Size Only

(b) 1130 PSI with 30# Pedal Load when Power Brake Equipped

(c) Power Disc Fronts - Optional

(d) 3.44 when Power Brake Equipped

## AMA Specifications—Passenger Car

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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 (a)	
	(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
		Curb to curb (l. & r.)	38.38 - 38.96
	Inside rear	Wall to wall (l. & r.)	21.44 - 22.48
		Curb to curb (l. & r.)	22.12 - 23.12
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
	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

(a) Not available with manual transmission with column shift.

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MODEL SPECIAL DELUXE 43369 SKYLARK 43569

## SUSPENSION - GENERAL

(See Supplement page 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	
Shack absorber front & rear	Type	Direct
	Make	Delco
	Piston dia.	1.00
Other special features	None	

## SUSPENSION - FRONT

Type and description		Coil Springs and Ball Joint
Spring	Type	Coil
	Material	SAE 9260 Steel
	Size (coil design height & I.D. bar length x dia.)	11.3 x 3.60 x 137.5 x .602
	Spring rate (lb. per in.)	280
	Rate at wheel (lb. per in.)	103
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	.812

## SUSPENSION - REAR

Type and description		Coil Springs
Drive and torque taken through		Control Arms
Spring	Type	Coil
	Material	SAE - 9260
	Size (length x width, coil design height & I.D., bar length & dia.)	7.62 Design Height - 5.50 I.D. 106.00 x .540
	Spring rate (lb. per in.)	150
	Rate at wheel (lb. per in.)	107.5
	Mounting insulation type	Rubber
	If leaf	No. of leaves
	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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**FRAME**

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

**BODY – MISCELLANEOUS INFORMATION**

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

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### CONVENIENCE EQUIPMENT

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

<b>Power windows</b>	Side windows	Not Available	Optional
	Vent windows	Not Available	
	Becklight or tailgate	Not Available	
Power seats (specify type as well as availability)		4-Way (Optional)	
Reclining front seat back (R-L or both)		Not Available	
Front seat head restrainer (R-L or both)		Optional (Right & Left)	
Radios (specify type as well as availability)		Sonomatic (Optional)	
Rear seat speaker		Optional	
Power antenna		Not Available	
Clock		Not Available	Optional
Air conditioner (specify type and availability)		Optional	
Speed warning device		Optional	
Speed control device		Optional (With Automatic Transmission Only)	
Ignition lock lamp		Not Available	
Dome lamp		Standard	
Glove compartment lamp		Optional	
Luggage compartment lamp		Optional	
Underhood lamp		Dealer Installed	
Courtesy lamp		Optional	
Map lamp		Not Available	
Auto. trans. quad. lamp		Included with Optional Transmission	
Cornering light lamp		Not Available	
<b>Emergency Flasher</b>		Standard	

### LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	26.47
		Lowest	-----
	Tail	Highest	20.94
		Lowest	-----
Sidemarker	Front	22.31	
	Rear	25.21	
Distance from C/L of car to center of bulb	Headlamp	Inside	25.73
		Outside *	32.11
	Tail	Inside	20.78
		Outside	27.96
	Directional	Front	29.42
		Rear	14.18

\* If single headlamps are used enter here



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 SPECIAL DELUXE - SKYLARK  
 WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT *
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
43327	1682	1565	3247	50.64	49.36	19.75	80.25	3125
43369	1744	1595	3339	51.04	48.96	19.59	80.41	3217
43537	1717	1599	3316	50.64	49.36	19.75	80.25	3194
43569	1751	1603	3354	51.03	48.97	19.60	80.40	3232

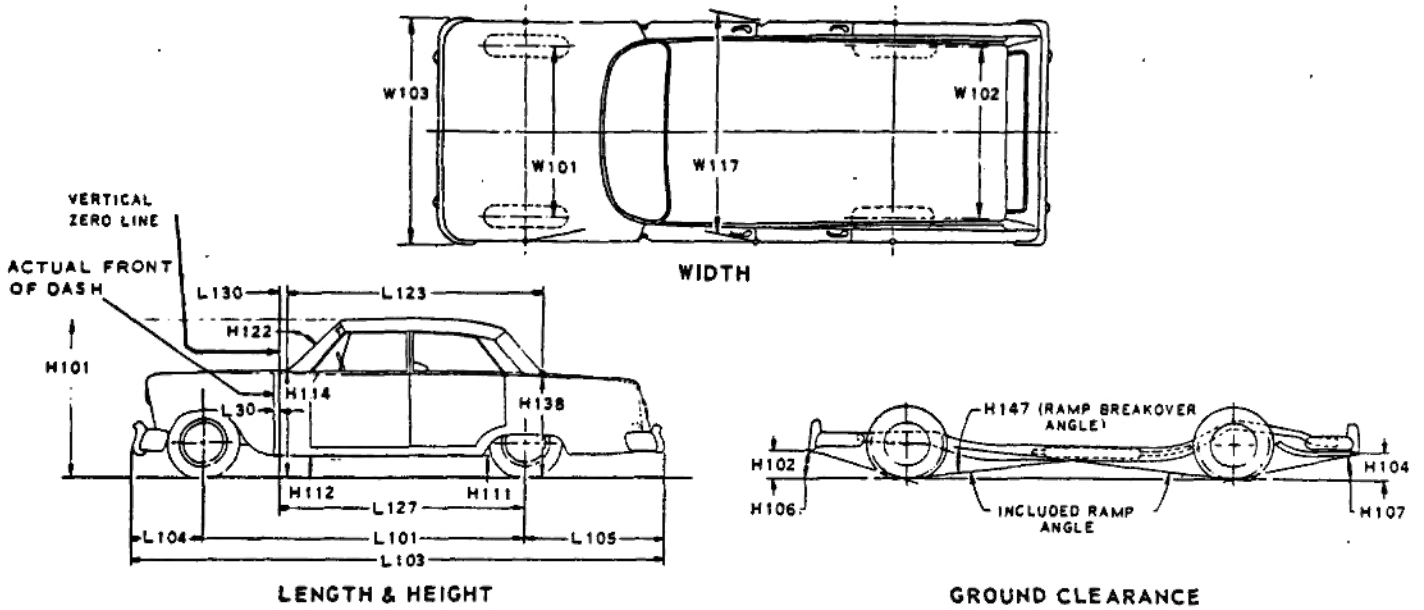
Accessories & Equipment Differential Weights	Weights			Remarks
V8 Engine (2 Bbl)	152.5	--	152.5	
V8 Engine (4 Bbl)	160.3	--	160.3	
Super Turbine Trans	11.1	--	11.1	
Power Steering	32.8	--	32.8	
Power Brakes	10.8	--	10.8	
Disc Brakes	24.7	11.8	36.5	
Radio, Sonomatic	5.9	2.3	8.2	
Radio, AM/FM	6.5	2.5	9.0	
Tires, Whitewall	2.4	3.5	5.9	
Tires, O.S. Whitewall	4.6	6.9	11.5	
Air Conditioner	125.4	--	125.4	
Power Seat, 4 Way	10.0	9.5	19.5	
Custom Padded Cushions	-7	-2.3	-3.0	
Tilt Strg Wheel	1.7	1.0	2.0	
Convenience Group	.5	.2	.7	
Deluxe Wheel Covers	-.2	-.2	-.4	
Chrome Plated Wheels	5.6	8.4	14.0	
Rallye Wheels	9.1	13.2	22.3	
Custom Mlgs	1.3	3.5	4.9	
Appearance Group	-3.4	-4.2	-7.6	
Deluxe Strg Wheel	-.1	--	-.1	

\* Standard Car with oil, coolant, without accessories, and gasoline.

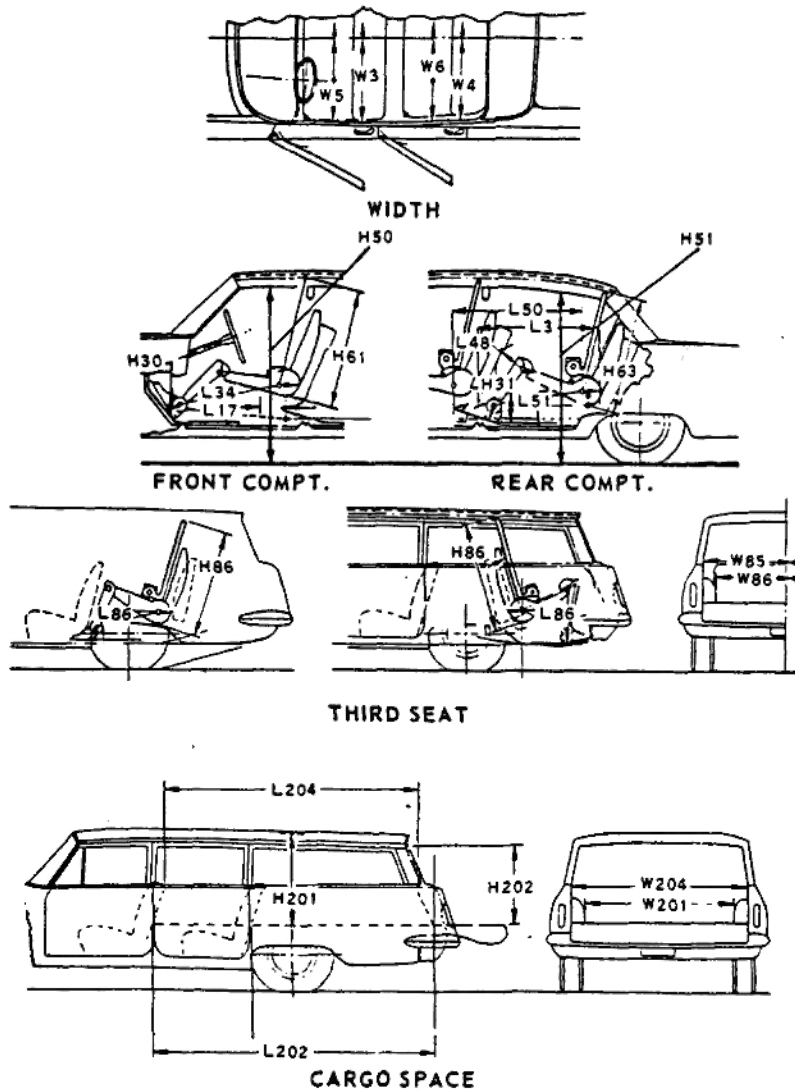
## CAR AND BODY DIMENSIONS

### 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 8° 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 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 wheelhousings 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.

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