

# AMA Specifications—Passenger Car

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MANUFACTURER BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME BUICK SPECIAL DELUXE - SKYLARK (6CYL.)
MAILING ADDRESS 1051 E. HAMILTON AVENUE FLINT, MICHIGAN 48550	MODEL YEAR 1969 ISSUED: Sept. 4, 1968 REVISED (●) 12-2-68

**NOTES:**

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

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BODY - TYPES AND STYLE NAMES -		
Body type, style names; use manufacturer's code for series & body style.		
SERIES	BODY STYLE	MODEL DESIGNATION
Special Deluxe	2 Door Thin Pillar Coupe	43327
	4 Door Thin Pillar Sedan	43369
Skylark	2 Door Hardtop Coupe	43537
	4 Door Thin Pillar Sedan	43569

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## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

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

MODEL	SAE Ref. No.	SPECIAL DELUXE		SKYLARK	
		43327	43369	43537	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	74.5			
<b>LENGTH</b>					
Body "O" to front of dash	L 30				
Wheelbase	L101	112.0	116.0	112.0	116.0
Overall car length	L103	200.7	204.7	200.7	204.7
Overhang - front	L104	37.5			
Overhang - rear	L105	51.2			
Body upper structure length	L123				
Body "O" line to $\phi$ of rear wheel	L127	95.5	99.5	95.5	99.5
Body "O" line to w/s cowl point	L130				
<b>HEIGHT</b>					
Passenger Distribution (front & rear)		2-2			
Trunk/Cargo load (lbs.)		200			
Overall height	H101	53.4	54.1	53.4	54.1
Cowl height	H114	38.3			
Deck height	H138				
Rocker panel - front	To ground	8.6			
	From front wheel $\phi$	27.2			
Rocker panel - rear	To ground	8.4			
	From rear wheel $\phi$	25.8			
Windshield slope angle	H122	53.1			
<b>GROUND CLEARANCE</b>					
Bumper to ground - front	H102	12.4			
Bumper to ground - rear	H104	11.9			
Angle of approach	H106	25.5°			
Angle of departure	H107	17.2°	17.8°	17.2°	17.8°
Ramp breakover angle	H147	12.3°	15.2°	12.3°	12.3°
Min. running clearance (Specify)(a)	H156	5.5	5.4	5.5	5.4

(a) Front Suspension to Ground.

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## CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions  
(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	SPECIAL DELUXE		SKYLARK	
		43327	43369	43537	43569
<b>FRONT COMPARTMENT</b>					
Effective head room	H61	37.9	38.6	37.9	38.6
Max. eff. leg room - accelerator	L34	41.3		41.6	
H Point to Heel point	H30	8.2		7.7	
H Point travel	L17	4.7			
Shoulder room	W 3	58.3			
Hip room	W 5	59.7		59.6	
Upper body opening to ground	H50	48.1	49.0	48.7	49.0
<b>REAR COMPARTMENT</b>					
H Point couple distance	L50	30.6	32.8	30.6	32.8
Effective head room	H63	36.3	37.3	36.3	37.3
Min. effective leg room	L51	32.4	35.0	32.2	34.8
H Point to Heel point	H31	10.0	10.6	10.0	10.6
Min. knee room	L48	0.7	2.3	0.7	2.3
Rear Compartment room	L 3	24.0	25.9	24.0	25.9
Shoulder room	W 4	57.1	57.3	57.1	57.3
Hip room	W 6	58.3	59.4	58.3	59.4
Upper body opening to ground	H51	-----	48.5	-----	48.5
<b>LUGGAGE COMPARTMENT</b>					
Usable luggage capacity	V 1	14.6			
Liftover height	H195	28.6			
Position of spare tire storage		Horizontal			
Method of holding lid open		Torsion Rods			
<b>STATION WAGON - THIRD SEAT</b>					
Shoulder Room	W85	No Wagons - This Series			
Hip room	W86				
Effective leg room	L86				
Effective head room	H86				
Seat facing direction					
<b>STATION WAGON - CARGO SPACE</b>					
Cargo length at floor - front seat	L202	No Wagons - This Series			
Cargo length at belt - front seat	L204				
Cargo width - Wheelhouse	W201				
Opening width at belt	W204				
Maximum cargo height	H201				
Rear opening height	H202				
Cargo volume index (cu. ft.) W4 x L204 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 - (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 - (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  
3.31 (Std)

Automatic  
3.07 (Std)  
No Perf.

3.31 (Std with A/C)

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	SPECIAL DELUXE 43369	SKYLARK 43569
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**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 (front to rear)	L. Bank	1-2-3-4-5-6 (In-Line)
	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 mtg. points	Front	Two
	Rear	One
Engine installation angle	4° 37'	
Taxable Dia <sup>2</sup> xNo. Cyl. horsepower	2.5 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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	SPECIAL DELUXE	SKYLARK
MODEL	43369	43569
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 and 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	None
	In rod or piston 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	
Dir. & amt. cyl. offset	None		
Crankpin journal diameter	1.999 - 2.000		

## ENGINE – CAMSHAFT

Location	Above and to Right of Crankshaft		
Material	Cast Iron Alloy		
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 and 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	
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

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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 c. case, less filter-refill (qt.)	4.0	
	<u>Anticipated Lowest Temp.</u>	<u>Use SAE Viscosity</u>
Oil grade recommended (SAE viscosity and temperature range)	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 Reant. (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 arrestor (screen, check valve, other)	Check Valve and Screen	

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MODEL \_\_\_\_\_

## 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'fgal 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		Same As Standard	
Exhaust System		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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**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 (A.C. Thermo Clutch with A/C)
	Bearing type		Double Row
* Drive belts (indicate belt used by letter)	Fan		"A" - ("D" With A/C)
	Generator or alternator		"A"
	Water Pump		"A"
	Power Steering		"B"
	Air Conditioning		"C"

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°							
Nominal length (SAE)	39.0	49.5	54.75	31.50							
Width	.38	.38	.47	.38							

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

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MODEL SPECIAL DELUXE SKYLARK  
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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		1100761 (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		(e)	
Motor Drive	Engagement type		Solenoid	
	Pinion meshes (front, rear)		Rear	
	Number of teeth	Pinion	9	
		Flywheel	Manual	153
	Auto.		153	
Flywheel tooth face width	Manual	.4010 - .4130		
	Auto.	.4010 - .4130		

(a) 1100802 with A/C

(b) 55 amps with A/C

(c) 20 amps with A/C

(d) 2.89 with A/C

(e) Manual (3) - Place Shift Lever in Neutral and Depress Clutch Pedal

Auto. - Place Shift Lever in Neutral or Park

Note: Turn Ignition Key Clockwise - Release When Engine Starts

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## ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard	
	Transistorized – Std., Opt., N.A.		Not Available	
	Other (specify)		Not Available	
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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	43369	43569

## ELECTRICAL — INSTRUMENTS AND EQUIPMENT

Speedometer	Type	Mechanical - (Eddy Current)	
	Trip odometer (yes, no)	No	
Charge indicator - type		Indicator Light	
Temperature indicator - type		"Hot" Only	
Oil pressure indicator - type		Pressure Switch - Indicator Type	
Fuel indicator - type		Electrical	
Other			
Windshield wiper	Type - Standard	Electrical - Two Speed	
	Type - Optional	None	
Windshield washer	Type - Standard	Electrical Engagement - Mech. Piston Pump	
	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 and 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
	Summer	SAE 80
	Winter	SAE 80
	Extreme cold	SAE 80

## DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)		Not Available
Manual lockout (yes, no)		
Downshift accelerator control (yes, no)		
Minimum cut-in speed		
Gear ratio		
Lubricant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	
	Type recommended	
	SAE viscosity number	SAE 80
	Summer	SAE 80
	Winter	SAE 80
	Extreme cold	SAE 80



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## DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name	Super Turbine "300" (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	1.765
2nd Gear	1.000	- - -	- - -
Max. upshift speed—drive range	61		
Max. kickdown speed—drive range	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" R 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	(a) 3.25 x 60.00 x .065	

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

(Continued)

(a) Rubber Biscuit Drive

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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)		
Drive taken through (torque tube or arms, springs)		Arms
Torque taken through (torque tube or arms, springs)		Arms

### DRIVE UNITS – AXLE

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

### AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Canadian

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

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

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**DRIVE UNITS – WHEELS**

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

	SPECIAL DELUXE 43369	SKYLARK 43569
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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.)	Bias Angle	
	Full rated Inflation Press.	Front	26
		Rear	28
	Rev./Mile at 50 MPH		785
Optional	Size, ply rating, & ply	8.25 - 14 Two-Ply with 4-Ply Rating F70-14 Wide Oval (Export) 205R14 Radial Ply 7.75-14 4-Ply Nylon - (Export)	

**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, Disc Brakes or Radial Ply Tires.

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## BRAKES—SERVICE

Type (drum) or (disc & no. of pistons)		Drum (c)		
Self adjusting (std., opt., N.A.)		Standard		
Special Valving	Type (proportion, delay, metering, other)	None		
Power brake make & type (remote, int., etc.)	Std.	No		
	Opt.	Delco - Moraine (Int. Vac. Susp.)		
Effective area (sq. in.) *		152.0		
Gross lining area (sq. in.) **		158.1		
Swept area (sq. in.) ***		268.6		
Front to Rear Effectiveness Relationship		62.4 Front (Based on Wheel Cyl. Size Only)		
Drum	Diameter (nominal)	Front	9.495 - 9.505	
		Rear	9.495 - 9.505	
	Type and material	Composite Cast Iron		
Rotor	Outer working diameter			
	Inner working diameter			
	Working width			
	Material & type (vented/solid)			
Wheel cylinder bore	Front		1.125	
	Rear		.875	
Master Cylinder	Bore		1.000	
	displacement	Front	% 59	
		Rear	% 41	
	distribution	Front	%	
Rear		%		
Pedal arc ratio		6.46 (a)		
Line pressure at 100 lb. pedal load		830 psi (b)		
Shoe Clearance	Front			
	Rear			
Brake lining	Bonded or riveted		Riveted	
	Front Wheel	Material	Extruded Molded	
		Size (length x width x thickness)	Prim. or out-board	7.57 x 2.50 x .196 (Gross) - .096 (Net)
			Second. or in-board	9.83 x 2.50 x .265 (Gross) - .165 (Net)
		Segments per shoe		One
	Rear Wheel	Material	Extruded Molded	
		Size (length x width x thickness)	Prim. or out-board	7.57 x 2.00 x .196 (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) 3.44 with Optional Power Brakes

(b) 1130 psi with 30# Pedal Load with Opt. Power Brakes

(c) Power Disc Fronts - Optional

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MODEL		SPECIAL DELUXE	SKYLARK
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<b>STEERING</b>			
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.)	43.8 (b)
		Curb to curb (l. & r.)	40.6 (c)
	Inside rear	Wall to wall (l. & r.)	21.44 - 22.48
		Curb to curb (l. & r.)	22.12 - 23.12
Manual	Gear	Type	Recirculating Ball - Nut
		Make	Saginaw
	Ratios	Gear	24.0
		Overall	28.6
	No. wheel turns (stop to stop)	5.56	
Power	Type (coaxial, linkage, etc.)		In - Line Rotary Valve
	Make		Saginaw
	Gear	Type	Recirculating Ball-Nut - (Integral with Power Piston)
		Ratios	Gear
	Overall		20.9
	Pump driven by		Belt
No. wheel turns (stop to stop)		4.06	
Linkage	Type		Parallelogram
	Location (front or rear of wheels, other)		Front
	Drag link (trans. or longit.)		Transverse
	Tie rods (one or two)		Two
Steering Axis	Inclination at camber (deg.)		8° 0' @ 1° 0'
	Bearings (type)	Upper	Ball Joint Suspension Used
		Lower	Ball Joint Suspension Used
		Thrust	Ball Joint Suspension Used
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)		- 1/2° ± 1/2° (Curb Height)
	Camber (deg.)		+ 1/2° ± 1/2° (Curb Height)
	Toe-in (outside track inches)		.12 to .25 (Curb Height)
Steering spindle & joint type		Ball Joint	
Wheel Spindle	Diameter	Inner bearing	1.2498/1.2493
		Outer bearing	.7498/ .7493
	Thread size		.75-20 UNF
	Bearing type		Tapered Roller

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

(b) 43.0 (112.00" W.B.)

(c) 39.9 (112.00" W.B.)

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## 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	
Shock absorber front & rear	Type	Direct
	Make	Delco
	Piston dia.	1.00
Other special features	None	

## SUSPENSION – FRONT

Type and description	Coil Spring and Ball Joint	
Spring	Type	Coil
	Material	SAE 9260 Steel
	Size (coil design height & I.D. bar length x dia.)	11.31 Design Ht. - 3.60 I.D. 124 X .582
	Spring rate (lb. per in.)	280
	Rate at wheel (lb. per in.)	103
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	1070 Steel - .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 Ht. - 5.50 I.D. 104 x .530
	Spring rate (lb. per in.)	106
	Rate at wheel (lb. per in.)	101
	Mounting insulation type	Rubber
	If leaf	No. of leaves Shackle (comp. or tens.)
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		Ignition Switch Locks Steering Shaft
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	- - -
Seat cushion type	Front	Zig - Zag
	Rear	Zig - Zag
	3rd seat	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)

Power windows	Side windows	Not Available	Optional
	Vent windows	Not Available	
	Backlight or tailgate	Not Available	
Power seats (specify type as well as availability)		Not Available	4Way - Optional
Reclining front seat back (R-L or both)		Not Available	
Front seat head restraint (R-L or both)		Standard	
Radios (specify type as well as availability)		Sonomatic or AM/FM - (Optional)	
Rear seat speaker		Optional	
Power antenna		(a) Optional (Excl. Convertible)	
Clock		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	
		Standard	
		Optional	

## 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	20.61	
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.

(a) Included with AM/FM Radio



