

AMA Specifications—Passenger Car

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MANUFACTURER	BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME	BUICK - SPECIAL AND SKYLARK (V-6 MODELS)
MAILING ADDRESS	1051 EAST HAMILTON AVENUE FLINT, MICHIGAN, 48550	MODEL YEAR	1966
		ISSUED:	10-14-65
		REVISED (*)	1-24-66

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.

SERIES	BODY STYLE	MODEL DESIGNATIC
Special	2 Door 6 Passenger Thin Pillar Coupe	43307
	4 Door 2 Seat Station Wagon	43335
	2 Door 6 Passenger Convertible Coupe	43367
	4 Door 6 Passenger Thin Pillar Sedan	43369
Special Deluxe	2 Door 6 Passenger Thin Pillar Coupe	43507
	2 Door 6 Passenger Hardtop Coupe	43517
	4 Door 2 Seat Station Wagon	43535
	4 Door 6 Passenger Thin Pillar Sedan	43569
Skylark	2 Door 6 Passenger Thin Pillar Coupe	44307
	2 Door 6 Passenger Hardtop Coupe	44317
	2 Door 6 Passenger Convertible	44367

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	SPECIAL		SKYLARK
		43335	43369	44339
Wheelbase (L101)		115.0		
Track	Front (W101)	58.0		
	Rear (W102)	59.0		
Maximum Overall Dimensions	Length (L103)	204.0		
	Width (W103)	75.5		
	Height (H101)	55.4	54.3	
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard	
	Manual - 4 speed	15	Not Available	
	Overdrive	15	Not Available	
	Automatic	16	Super Turbine (Optional)	
Axle ratio	Manual - 3 speed	17	3.36	3.23
	Manual - 4 speed	17	Not Available	
	Overdrive	17	Not Available	
	Automatic	17	3.23	2.93
Tire size	18	7.75-14	6.95-14	7.35-14
Engine	Type, no. cyl., valve arr.	3	V6-90° In-Head	
	Fuel system (Carb., other)	10	Carburetor	
	Bore and stroke	3	3.750 x 3.400	
	Piston displ., cu. in.	3	225	
	Std. compression ratio	3	9.0	
	Max. bhp at engine rpm	3	160 @ 4200	
	Max. torque at rpm	3	235 @ 2400	

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GENERAL SPECIFICATIONS—DIMENSIONS

(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

MODEL	SAE Ref. No.	SPECIAL		SKYLARK
		43335	43369	44339

FRONT COMPARTMENT

Shoulder room	W3	58.8		58.0
Hip room	W5	59.9		59.6
Max. eff. leg room - accelerator	L34	41.1		41.3
Effective head room	H61	37.8	38.1	38.2
H Point to Heel point	H30	8.6	8.7	8.2

REAR COMPARTMENT

Shoulder room	W4	58.8		58.1
Hip room	W6	59.9	60.0	59.7
Minimum effective leg room	L51	36.0		35.7
Effective head room	H63	38.3	37.2	

LUGGAGE COMPARTMENT

Usable luggage capacity (Cu. Ft.)	V1	---	18.9	
Liftover height	H195	---	28.4	
Position of spare tire storage		Vertical	Horizontal	
Method of holding lid open		Torsional Rods		

STATION WAGON—THIRD SEAT : None in this series

Hip room	W86			
Effective leg room	L86			
Effective head room	H86			
Seat facing direction				

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	SPECIAL	
		43335	43535
Minimum distance between wheel houses at floor level	W201	44.7	
Rear end opening width at belt	W204	52.6	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.0	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	80.9	
Maximum height - floor covering to headlining at centerline of rear axle	H201	31.1	
Maximum height of rear opening - tail and lift gates open	H202	28.4	
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	85.6	

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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	4° 37'	
Taxable horsepower	Dia ² xNo.Cyl. 2.5	33.748
Publishing max. bhp* @ eng. RPM	160 @ 4200	
Publishing max. torque* (lb. ft. @ RPM)	235 @ 2400	
Recommended fuel regular - premium	Regular	
Idle speed(spec. neutral or drive)	Manual	550 (Neutral)
	Automatic	550 (Drive)

ENGINE—PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Cam Ground - Transverse Slot - Divorced Skirt		
Weight (piston only) oz.	17.34		
Clearance (limits)	Top land	.0265 - .0345	
	Skirt	Top	.0005 - .0011
		Bottom	.0005 - .0021
Ring groove depth	No. 1 ring	.1855 - .1930	
	No. 2 ring	.188 - .1955	
	No. 3 ring	.188 - .1955	
	No. 4 ring	None	

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

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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 Skylark(a)	225	2 Bb1	9.0	160@ 4200	235@ 2400	Manual (3)	3.23 Coupes, Sedans & Wagons
	225	2 Bb1	9.0	160@ 4200	235@ 2400	Automatic	2.93 Coupes & Sedans (3.23 with A/C) 3.23 Wagons

(a) Standard in Series 433-435-443

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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 Iron - Chrome Plated #2 Cast Iron - Lubrited
	Width	#1 - .0785-.0789 - #2 .007-.078
	Gap	.010-.020
Oil	Description - material, coating, etc.	Steel Uncoated
	Width	.181-.187
	Gap	.015-.035
Expanders		Steel (Oil Ring) Hump Type

ENGINE—PISTON PINS

Material	Extruded SAE 1018		
Length	3.060		
Diameter	.9394-.9397		
Type	Locked in rod, in piston, floating, etc.	Pressed In Rod	
	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.)	20.8	
Length (center to center)	5.960	
Bearing	Material & Type	Removable-Steel Backed M/400 Aluminum
	Overall length	.737
	Clearance (limits)	.0020-.0023
	End play	.006-.014 (a)

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ENGINE—CRANKSHAFT

Material		Pearlitic Malleable Iron	
Vibration damper type		None	
End thrust taken by bearing (No.)		Two	
Crankshaft end play		.004-.008	
Main bearing	Material & type	Steel Backed - All Removable (a)	
	Clearance	.0004-.0015	
	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		2.000	

ENGINE—CAMSHAFT

Location		Above Crankshaft at Center of "V"	
Material		Cast Alloy Iron	
Bearings	Material	Steel Backed Babbitt	
	Number	Four	
Gear or chain		Chain	
Type of Drive	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		Crankshaft Flange

(a) #4 Lower M/100 Durex - Remainder M/400

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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.		1.630=1.620	
	Angle of seat & face		45°	
	Seat insert material		None	
	Stem diameter		(a)	
	Stem to guide clearance		.0012-.0032	
	Lift (@ zero lash)		.4011	
	Outer spring press. and length	Valve closed (lb. @ in.)	64 ± 5 @ 1.727	
		Valve open (lb. @ in.)	168 @ 1.250	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		GM-N82152 (21-4N)
		Overall length		4.660/4.630
Actual overall head dia.		1.380/1.370		
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		(b)		
Stem to guide clearance		(c)		
Lift (@ zero lash)		.3907		
Outer spring press. and length		Valve closed (lb. @ in.)	64 ± 5 @ 1.727	
		Valve open (lb. @ in.)	168 ± 6 @ 1.327	
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

(a) .3410 ± .0005 diameter. Maximum allowable taper to be .0003 with smallest diameter at valve head end.

(b) .3412/.3402 (top) .3407/.3397 (bottom).

(c) .0015/.0035 (top) .002 / .004 (bottom).

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	33 @ 2400	
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 and Can	
Capacity of crankcase, less filter-refill (qt.)	Four	
Oil grade recommended (SAE viscosity and temperature range)	<u>Anticipated Lowest Temperature</u>	<u>Use S.A.E. Viscosity</u>
	Above 32° F.	10W-30, 20W or 20
	Below 32° F. to Zero °F.	10W-30, 10W
	Below Zero °F.	5W-20, 5W
Engine Service Requirement (MM, MS, etc.)	Passing car makers test GM4745M	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with Crossover	
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	A.C.	
	Location	Right Rocker Arm Cover (a)	
	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 (Standard Set-Up) Also Discharged into Air Cleaner (Opt.)	
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap Ventilation Air Filter in Opt. System	
	Flame arrestor (screen, check valve, other)	Check Valve	

(a) Left rocker arm cover also used on State of California Cars.

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ENGINE—AIR INJECTION REACTOR

Type (Air injection, engine modifications, other)				
Air Injection Pump	Type	Air Injection		
	Displacement	19.3 Cu. In.		
	Drive ratio	1.25		
	Drive type	Belt		
	Relief valve (type)	Pressure		
	Filter (describe)	Air Inlet Through Clean Side of Engine Air Cleaner		
Air Injection System	Air distribution (head, manifold, etc.)	Manifold		
	Point of entry	Exhaust Port		
	Injection tube I.D.	0.252		
	Check valve type	Diaphragm		
	Backfire protection (type)	Vacuum Operated Intake Air Bleed		
Carburetor	Make	Rochester		
	Model	2 GC		
	Barrel size	1.4375		
	Idle speed	Drive	600	
Neutral		550		
Distributor	Aux. Adv. Systems (type)	None		
	Make	Delco Remy		
	Model	1110342		
	Cent'fgal adv. in crank degrees @ eng. rpm.	Start (rpm)	700-900	
		Intermed. points deg. @ rpm	16° @ 1800	
		Max. deg. @ rpm.	28° @ 4200	
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in Hg)	10.5 @ 12	
Intermed. points deg. @ in. Hg Max. deg. @ in.		19.5		
	Vacuum Source			
Timing - Crank degrees @ rpm			5° @ 550	
Cooling System (describe changes)			Same as Standard	
Exhaust System (describe changes)			Same as Standard	

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ENGINE—FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor
Fuel Tank	Refill capacity (gals.)	Approximately 20 gal.
	Filler location	Side Rear
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Engine
	Pressure range	4.25-5.75 (at outlet) at 1800 rpm (cam)
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Porous Metal
	Locations	Engine (a)
Carburetor	Choke type	Integral Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Standard
Optional		None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
433-435-443 *	225	Manual (3)	Rochester	2 GC	1-2 Bb1	1.4375
	225	Automatic	Rochester	2 GC	1-2 Bb1	1.4375

* Standard Engine

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

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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	14	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Double Row	
By-pass recirculation type (internal, external)		External	
Radiator core type (cellular, tube and fin, other)		Cross Flow	
Cooling system capacity	With heater (qt.)	11.2	
	Without heater (qt.)	10.5	
	Opt. equipment-specify (qt.)	11.2 with A/C	
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	.62
Fan	Number of blades & spacing		4 (76 x 104°) 7 with A/C
	Diameter		STD 17.12" - 17" (V6) 18" (V8) with A/C
	Ratio-fan to crankshaft rev.		Std. .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 or alternator		A
	Water Pump		A
	Power Steering		B
	Air Conditioning		C
Exhaust Emission		D	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38	38	38	38							
Nominal length (SAE)	43.92	53.0	59.44	36.12							
Width	.38	.47	.47	.32							
Engine Displacement	225	225	225	225							
	300	300	300	300							

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco # 554
	Voltage Rtg. & Total Plates		12-54
	SAE Designation & Amp Hr. Rtg.		17M1 -44
	Location		R. F. Fender Skirt
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100705 (b)
	Type and rating		Diode Rectified Alternator (37 amp)
	Output at engine idle (neutral)		10 amps
	Ratio—Gen. to Cr/s rev.		2.29 (a)
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 @ 125°
		Current	None
	Voltage test conditions	Temperature	
		Load	Run 15 Minutes @ 10 Amps. (Max.)
Other		Battery Must Be In Circuit.	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy
	Model		1107259
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Approximately 160 rpm
	Test conditions		Engine at Operating Temp.
	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. Turn ignition key clockwise and release when engine starts. With automatic transmission selector lever must be in Neutral or Park. Turn ignition key clockwise and release when engine starts.

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 (a) 2.62 with A/C.
 (b) 1100710 with A/C.

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type			Solenoid with Over-Running Clutch
	Pinion meshes (front, rear)			Front
	Number of teeth	Pinion		9
		Flywheel	Manual	160
	Auto.		160	
	Flywheel tooth face width	Manual		.375
Auto.		.375		

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.			Not Available
	Make			Delco Remy
	Model			1115036
	Amps	Engine stopped		3.8 @ 12.6
Engine idling		2.3 @ 12.6		
Distributor	Make			Delco Remy
	Model			1110342
	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
	Breaker gap (in.)			.013-.019
	Cam angle (deg.)			30 ^o ± 1 ^o
Breaker arm tension (oz.)			19-23	
Timing	Crankshaft deg. @ rpm.			5 ^o @ 550
	Mark location			Crankshaft Flange
Spark Plug	Make			AC
	Model			44 TS
	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 Inner Braid
	Spark plug protector			Hypalon Boot

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ELECTRICAL—SUPPRESSION

Locations & type	TVRS Cable to Plugs and Coil Static Collectors in Front Wheels Ground Strap - Engine to Dash By - Pass Capacitors on Delcotron, Ignition Coil and Regulator.
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ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	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		
Windshield wiper	Make	Delco Appliance (Two Speed)
	Type—Standard	Electric
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Yes - Standard
Horn	Type	Solenoid
	Number used	One Two
	Amp draw (each)	Both 7 to 11 amps

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Dry	
Type pressure plate springs	Belleville Spring	
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	Ball-Sealed
Torsional damping	Methods: springs, friction material	Springs

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				SPECIAL		SKYLARK
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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 TRANSMISSION

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 Gears		
Shift lever location	Steering Column		
Lubricant	Capacity (pt.)	3.375	
	Type recommended	A9 Mineral Oil	
	SAE viscosity number	Summer	SAE 80-90
		Winter	SAE 80-90
Extreme cold		SAE 80-90	

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

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DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Super Turbine		
Type describe	2-Speed with Torque Converter		
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	LOW	REVERSE
	1 st 1.765	1.765	1.765
	Direct 1.000		
	- - - - - each times converter ratio - - - - -		
Max. upshift speeds—drive range	56		
Max. kickdown speeds—drive range	51		
Torque converter	Number of elements		
	3		
	Max. ratio at stall		
	2.75 Low Angle - 1.95 High Angle		
	Type of cooling (air, liquid)		
	Water		
Lubricant	Capacity—refill (pt.)		
	19.0 Total - 5 Oil Drain		
	Type recommended		
	(a)		
Special transmission features	Variable Pitch Stator - High Angle Actuated 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 3-speed transmission	3.25 x .065 x 60.00	
	Manual 4-speed transmission	Not Available	
	Overdrive transmission	Not Available	
	Automatic transmission	3.25 x .065 x 60.00 (With Rubber Biscuits)	

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

(Continued)

(a) Automatic transmission fluid identified by AQ-ATF followed by a number then the suffix "A".

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DRIVE UNITS—PROPELLER SHAFT (cont.)

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

Description	Salisbury Hypoid - Semi-Floating			
Limited Slip differential, type	Optional			
Drive Pinion Offset	1.50			
No. of differential pinions	2			
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.)	2.75		
	Type recommended	MIL-L-2105B		
	SAE viscosity number	Summer	80	
		Winter	80	
		Extreme cold	80	

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio	2.56	2.93	3.23	3.36	3.55	
No. of teeth	Pinion	16	14	13	11	11
	Ring gear	41	41	42	37	39

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DRIVE UNITS—WHEELS

Type & material		Disc Steel	
Rim (size and flange type)	Std.	14 x 6.00 JK	14 x 5.00 J
	Opt.	None	14 x 6.00 JK
Attachment	Type (bolt or stud)	Stud	
	Circle diameter	4.75	
	Number and size	Five - .4375-20	

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75-14 (d)	6.95-14 (d)	7.35-14 (d)
	Type - Nylon, etc.	Rayon		
Rev/mile at 50 mph.		779	822	808
Inflation press. (cold)	Front	22	24	24
	Rear	26	24	24
Optional tires - size and ply		8.25-14 (d)	7.35-14 (d)	7.75-14 (d)

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 (Int. Vac. Susp.) (a)	
Effective area (sq. in.) *		152.0	
Gross lining area (sq. in.) **		158.1	
Swept drum area (sq. in.) ***		268.6	
Percent brake effectiveness—front		56.2	
Drum or Rotor	Diameter	Front	9.495 / 9.505
		Rear	9.495 / 9.505
	Type and material		Composite Cast Iron
	Rotor (vented or solid)		Not Used
No. pistons per caliper		Not Used	
Wheel cylinder bore	Front	1.0625	
	Rear	.9375	
Master cylinder bore		1.000	
Available pedal travel		6.70 (b)	
Line pressure at 100 lb. pedal load		820 psi (c)	
Shoe clearance adjustment		.015	

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

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

*** Total swept area for four brakes:
Widest lining contact width for each brake x its drum circumference.

- (a) Optional Equipment
 (b) 4.00 inch travel when power brake equipped.
 (c) 480 psi with 30# pedal load with optional power brake system.
 (d) 2-Ply having 4-ply rating.

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BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Drum		
	Bonded or riveted		Riveted		
	Front Wheel	Material		Extruded Molded	
		Size (length x width x thickness)	Prim. or out-board	7.65 x 2.50 x .196 (Gross) .096 (Net)	
			Second. or in-board	9.92 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	7.65 x 2.00 x .196 (Gross) .096 (Net)	
			Second. or in-board	9.92 x 2.00 x .265 (Gross) .165 (Net)	
		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

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

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"	
	Power	16"	
Turning diameter	Outside front	Wall to wall (l. & r.)	41.5
		Curb to curb (l. & r.)	40.6
	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'	
Manual	Gear	Type	Recirculating Ball Nut
		Make	Saginaw
	Ratios	Gear	24.0
		Overall	28.6
No. wheel turns		5.56	

(a) Not available with 3 speed manual transmission or manual steering.

(Continued)

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STEERING (cont.)

Power	Type (coaxial, linkage, etc.)		In-Line Rotary Valve	
	Make		Saginaw	
	Gear	Type		Recirculating Ball Nut-Integral with Power Piston
		Ratios	Gear Overall	17.5 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.)		$8^{\circ} 0' @ 1^{\circ} 0'$	
	Bearings (type)	Upper	Ball Joint Suspension Used	
		Lower	Ball Joint Suspension Used	
		Thrust	Ball Joint Suspension Used	
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)		Negative $1/2^{\circ} \pm 1/2^{\circ} *$	
	Camber (deg.)		Positive $1/2^{\circ} \pm 1/2^{\circ} *$	
	Toe-in (outside track inches)		.12 to .25 *	
Steering spindle & joint type			Ball Joint	
Wheel spindle	Diameter	Inner bearing	1.2945	
		Outer bearing	.7494	
	Threpd size		.75-20 NEF	
	Bearing type		Tapered Roller	

* Curb Height.

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SUSPENSION—GENERAL

(See Supplemental 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	Direct
Type	Delco
Make	1.00
Piston dia.	None
Other special features	None

SUSPENSION—FRONT

Type and description	Coil Springs & Ball Joint		
Spring	Type	Coil	
	Material	SAE 9260 Steel	
	Size (coil design height & I.D.; bar length x dia.)	11.4 x 3.630 .615 x 141.25	11.4 x 3.630 .631 x 160.87
	Spring rate (lb. per in.)	275	
	Rate at wheel (lb. per in.)	101	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	SAE (1070) .875	(SAE 1070) .781

SUSPENSION—REAR

Type and description	Coil Springs		
Drive and torque taken through	Control Arms		
Spring	Type	Coil	
	Material	9260	
	Size (length x width, coil design height & I.D.; bar length & dia.)	8.52 x 5.530 .600 x 129.0	8.52 x 5.530 .560 x 127.0
	Spring rate (lb. per in.)	138	106
	Rate at wheel (lb. per in.)	138	107.5
	Mounting insulation type	Reinforced Rubber	
	If leaf	No. of leaves	Not Used
Stabilizer	Shackle (comp. or tens)	Not Used	
	Type (link, linkless, frameless)	Not Used	
	Material	Not Used	
Track bar type	Not Used		

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BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	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 Front Pillar Post
Engine No. location		Front Face-Left Cyl. Block, Below Cyl. Head
Theft protection - type		None
Vent window control method (crank, friction pivot)	Front	Friction Pivot
	Rear	None
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 Plate)
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		1107.1
Side glass exposed surface area		2498.6 1278.0 1432.8
Backlight glass exposed surface area		768.4 1060.4 834.0
Total glass exposed surface area		4374.1 3445.5 3373.9

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	25.68	24.73	25.47
		Lowest	25.68	24.73	25.47
	Tail	Highest	26.50	27.02	
		Lowest	26.50	27.02	
Distance from C/L of car to center of bulb	Headlamp	Inside		24.70	
		Outside *		31.38	
	Tail	Inside	33.5	28.56	
		Outside	33.5	28.56	
	Directional	Front		28.50	
		Rear		28.50	

* If single headlamps are used enter here.

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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	Optional	Not Available	
Power seats (specify type as well as availability)		Optional (4-Way Tilt)		
Reclining front seat back		N.A.		
Front seat headrest		Opt.		
Radios (specify type as well as availability)		AM- or AM-FM - (Optional)		
Rear seat speaker		Optional (Except Convertibles)		
Power Antenna		N.A.		
Clock		Opt.		
Air Conditioner (specify type and availability)		Opt.		
Speed warning device		N.A.		
Speed control device		N.A.		
Ignition lock lamp		N.A.		
Back up lamp		Std.		
Dome lamp		Std.		
Glove compartment lamp		Opt.		Std.
Prkg. brake signal lamp		N.A.		
Luggage compartment lamp		N. A.	Optional	
Underhood lamp		N.A.		
Courtesy lamp		Optional (Std. Convertible)		
Map lamp		N.A.		
Auto. trans. quad. lamp		Included With Auto. Trans. Option		
Emergency flasher lamp		N.A.		
Cornering light lamp		N.A.		

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WEIGHTS

Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT *
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
43335	1624	1831	3455					3300
43369	1666	1538	3204					3046
44339	1756	1557	3313					3232
Accessories & Equipment Differential Weights				Remarks				
Power Tailgate Window	0	5	+5	(Station Wagons)				
Power Seat - 4 way	10.7	8.8	+19.5					
Divided Rear Seat	3.5	12.5	+16.0	(Station Wagons)				
Air Conditioner	108.5	2.2	+110.7					
Positive Traction	0	8.5	+8.5					
Power Brakes	6.9	1.7	+8.6					
Air Injection Reactor	18.0	0.0	+18.0					
Automatic Transmission	-1.6	-2.4	-4.0					
Tilt Wheel	1.1	.3	+1.4					
Power Steering	34.7	0.0	+34.7					
Dual Horns	1.2	0.0	+1.2					
Radio - Sonomatic	6.0	2.2	+8.2					
Radio - AM/FM	9.1	3.3	+12.4					
Luggage Rack	1.3	13.0	+14.3	(Station Wagons)				
Heavy Duty Suspension	4.9	6.2	+11.1					
Convenience Group	1.9	.2	+2.1					

* Registration Data Weight