

AMA Specifications – Passenger Car

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MANUFACTURER BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME BUICK--Special, Skylark, & Sportwagon	
MAILING ADDRESS 1051 E. Hamilton Flint 2, Michigan	MODEL YEAR 1965	ISSUED: 9-15-64 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.

MODEL		
V6	V8	
43327	43427	2-Door 4-Window Thin Pillar Notchback Coupe
43335	43435	4-Door 6-Window 2-Seat Station Wagon
43367	43467	2-Door 4-Window Convertible Coupe
43369	43469	4-Door 4-Window Thin Pillar Sedan
43535	43635	4-Door 6-Window 2-Seat Station Wagon
43569	43669	4-Door 4-Window Thin Pillar Sedan
-----	44255	4-Door 6-Window 2-Seat Station Wagon
-----	44265	4-Door 6-Window 3-Seat Station Wagon
44327	44427	2-Door 4-Window Thin Pillar Notchback Coupe
44337	44437	2-Door 4-Window Hardtop Coupe
-----	44455	4-Door 6-Window 2-Seat Station Wagon
-----	44465	4-Door 6-Window 3-Seat Station Wagon
44367	44467	2-Door 4-Window Convertible Coupe
44369	44469	4-Door 4-Window Thin Pillar Sedan

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	SPECIAL		SPORTWAGON	SKYLARK
		43335	43369	44255	44369
Wheelbase (L101)		115.0		120.0	115.0
Tread	Front (W101)	58.0			
	Rear (W102)	58.0			
Maximum Overall Dimensions	Length (L103)	203.2	203.4	208.2	203.4
	Width (W103)	73.6		73.9	
	Height (H101)	55.3	54.0	58.3	54.0
Transmission— (Specify trade name - opt., not available)	Manual 15	3-Speed Synchronesh (Standard)			
	Overdrive 16	Not Available			
	Automatic 16	2-Speed (Optional)			
Axle ratio	Manual 17	3.36	3.23		
	Overdrive 17	Not Available			
	Automatic 17	3.23	3.08		
Tire size	18	7.35-14	6.95-14	7.75-14	6.95-14
Engine	Type, no. cyl., valve arr. 2	V6 - 90° In-Head		V8 -90° In-Head	V6 -90° In-Head
	Fuel system (Carb., other) 8	Carburetor			
	Bore and stroke 2	3.750 x 3.400			
	Piston displ., cu.in. 2	225		300	225
	Std. compression ratio 2	9.0			
	Max. bhp at engine rpm 2	155 @ 4400		210 @ 4600	155 @ 4400
	Max. torque at rpm 2	225 @ 2400		310 @ 2400	225 @ 2400

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GENERAL SPECIFICATIONS — DIMENSIONS

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

MODEL	Ref. No.	SPECIAL		SPORTWAGON	SKYLARK
		43335	43369	44255	44369

FRONT COMPARTMENT

Shoulder room	W3	55.8		58.2	
Max. eff. leg room - accelerator	L34	41.2	41.1	41.2	41.3
Effective head room	H61	37.8	38.2	37.7	38.2
H Point to Heel point	H30	8.6	8.7	8.6	8.3
Upper body opening to ground	H50	43.7			

REAR COMPARTMENT

Shoulder room	W4	58.8		58.2	
H Point couple distance	L50	33.5			
Minimum effective leg room	L51	35.9	35.8	39.2	35.9
Effective head room	H63	38.4	37.2	40.0	37.2

STATION WAGON—THIRD SEAT (MODELS)4426544465

Shoulder room	W85	57.3			
Effective leg room	L86	(a)			
Effective head room	H86			36.8	

LUGGAGE COMPARTMENT

Usable luggage capacity (See instr.)	V1	16.1		16.1	
Liftover height	H195	30.4		30.4	
Position of spare tire storage		Horizontal		Horizontal	
Method of holding lid open		(b)		(b)	

STATION WAGON—CARGO SPACE

		SPECIAL	SPORTWAGON		
		43335	44255	44265	44455
Minimum distance between wheel houses at floor level	W201	44.7	46.0		
Rear end opening width at belt	W204	53.0			
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.0	97.5		
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	80.9	85.9		
Maximum height - floor covering to headlining at centerline of rear axle	H201	31.2	33.5		
Maximum height of rear opening - tail and lift gates open	H202	28.4	28.5		
Cargo volume index (cu.ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	85.9	97.8 (c)		96.6 (c)

- (a) 44265 = 36.0" -- 44465 = 35.7"
- (b) Torsion Bar (Spring Loaded)
- (c) Add 5.43# to 55 styles and 3.75# to 65 styles for luggage locker volumn.

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	SPECIAL		SPORTWAGON		SKYLARK				
MODEL	43335	43369	44255	44369					

ENGINE—GENERAL

Type, no. cyls., valve arr.	V6 - 90° In-Head	V8-90° In-Head	V6-90° In-Head	
Bore and stroke (nominal)	3.750 x 3.400			
Piston displacement, c.u. in.	225	300	225	
Bore spacing (C/L to C/L)	4.240			
No. system (front to rear)	L. Bank	1-3-5	1-3-5-7	1-3-5
	R. Bank	2-4-6	2-4-6-8	2-4-6
Firing order	1-6-5-4-3-2	1-8-4-3-6-5-7-2	1-6-5-4-3-2	
Compress. 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	33.748	45.0	33.748	
Published max. bhp* @ eng. RPM	155 @ 4400	210 @ 4600	155 @ 4400	
Published max. torque* (lb. ft. @ RPM)	225 @ 2400	310 @ 2400	225 @ 2400	
Recommended fuel regular - premium	Regular			
Idle speed (spec. neutral or drive)	Manual	550		
	Automatic	550 (Drive)		

ENGINE—PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Cam Ground - Transverse Slot - Divorced Skirt		
Weight (piston only) oz.	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)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
<u>SPECIAL</u> (a)	*225	1-bb1	9.0	155@ 4400	225@ 2400	3-Speed Manual	3.23 (Sedans & Coupes)
<u>SKYLARK</u> (a)	225	1-bb1	9.0	155@ 4400	225@ 2400	Automatic	3.08 (Sedans & Coupes)
<u>SPORTWAGON</u> (b)	300	2-bb1	9.0	210@ 4600	310@ 2400	3-Speed Manual	3.08 (Sedans & Coupes)
	300	2-bb1	9.0	210@ 4600	310@ 2400	Automatic	2.78 (Sedans & Coupes)
	300	2-bb1	9.0	210@ 4600	310@ 2400	4-Speed Manual (c)	3.23 (Sedans & Coupes)
	300	4-bb1	10.25	250@ 4800	335@ 3000	3-Speed Manual	3.08 (Sedans & Coupes)
	300	4-bb1	10.25	250@ 4800	335@ 3000	Automatic	2.78 (Sedans & Coupes)
	300	4-bb1	10.25	250@ 4800	335@ 3000	4-Speed Manual (c)	3.23 (Sedans & Coupes)

(a) Not available in Models 44255, 44265, 44455 and 44465.

(b) Standard in Models 44255, 44265, 44455 and 44465.

(c) Available only with V8 engine on all Models except 44255, 44265, 44455 and 44465.

(*) Standard Engine - all Models except 44255, 44265, 44455 and 44465.

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.		Compression
	No. 2, oil or comp.		Compression
	No. 3, oil or comp.		Oil
	No. 4, oil or comp.		None
Compression	Description - material, type, coating, etc.		#1 Cast Iron - Chrome Plated #2 Cast Iron - Lubrited
	Width	#1 - .0785-.0789	#2 .077-.078
	Gap	.010-.020	
Oil	Description - material, type, coating, etc.		Steel Uncoated
	Width	.181-.187	
	Gap	.015-.035	
Expanders		Steel (Oil Ring) - Hump Type	

ENGINE—PISTON PINS

Material	Extruded SAE 1018 or 1118 Steel		
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	Removeable Steel Backed - M/400 Aluminum	
	Overall length	.737	
	Clearance (limits)	.0020 - .0023	
	End play	.006 - .014 (a)	

(a) Total for Both Rods.

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ENGINE—CRANKSHAFT

Material		Pearlitic Malleable Iron			
Vibration damper type		Rubber Absorption			
End thrust taken by bearing (No.)		Two	Three	Two	
Crankshaft end play		.004 - .008			
Main bearing	Material & type		Steel Backed - All Removeable		
			(a)	(b)	(a)
	Clearance		.0004 - .0015		
	Journal dia. and bearing overall length	No. 1	2.4995 x .864		
		No. 2	2.4995 x 1.057	2.4995x.864	2.4995 x 1.057
		No. 3	2.4995 x .864	2.4995x 1.057	2.4995 x .864
		No. 4	2.4995 x .864		
		No. 5	None	2.4995x .864	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 Steel Backed Babbitt		
Bearings	Material			
	Number	Four	Five	Four
Gear or chain		Chain		
Crankshaft gear or sprocket material		Sintered Iron		
Camshaft gear or sprocket material		Nylon Coated Aluminum		
Type of Drive	Timing chain	No. of links	54	
		Width	.875	
		Pitch	.375	

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.6
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None
Timing marks on flywheel, damper, other		Harmonic Balancer

- (a) #4 Lower M/100 Durex - Remainder M/400
 (b) #5 Lower M/100 Durex - Remainder M/400

(cont.)

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	24	30	24
		Closes (°ABC)	81	76	81
		Duration - deg.	285	286	285
	Exhaust	Opens (°BBC)	72	68	72
		Closes (°ATC)	43	37	43
		Duration - deg.	295	285	295
	Valve opening overlap		67		
Intake	Material		SAE 1041, 1047 or T. S. 8150		
	Overall length		4.545	4.645	4.545
	Actual overall head dia.		1.630/1.620	1.8175/1.8075	1.630/1.620
	Angle of seat & face		45°		
	Seat insert material		None		
	Stem diameter		(a)	(d)	(a)
	Stem to guide clearance		.0012-.0032	(e)	.0012-.0032
	Lift (@ zero lash)		.4011	.3931	.4011
	Outer spring press. and length	Valve closed (lb. @ in.)	64 - 5 @ 1.727		
		Valve open (lb. @ in.)	168 @ 1.250	164-6 @ 1.340	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)	(f)	(b)	
Stem to guide clearance		(c)	(g)	(c)	
Lift (@ zero lash)		.401			
Outer spring press. and length		Valve closed (lb. @ in.)	64 ⁺ 5 @ 1.727	64 @ 1.727	64 @ 1.640
		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 dia.-Max. allowable taper to be .0003 with smallest dia. at valve head end.
 (b) .3412/.3402(top)--.3407/.3397(Bottom) (e) .0012/.0032 & .0003 max. taper
 (c) .0015/.0035 (Top)--.002/.004 (Bottom) (f) .3402/.3412 Top--.3397/.3407 (Bottom)
 (d) .3415/.3405 dia.- Max.allowable taper to be .0003 with smallest dia. at valve head end. (g) .0015/.0035 Top--.0021/.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 & 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 or 5W
Engine Service Requirement (MM, MS, etc.)	Passing Car Makers Test GM-4745M	

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 (a) One Reverse Flow		
Exhaust pipe dia. (O.D.)	1.8750-.076		
Branch wall thickness	2.00-.076	2.25-.076	2.00-.076
Main wall thickness	1.75-.048	2.00-.048	1.75-.048
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	Induction System Plus Engine Air Cleaner
Control unit	Make and model	AC - CV684
	Location	Assembles in Rocker Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
Complete system	Control method (variable orifice, fixed orifice, other)	Variable Orifice
	Discharges (to Intake manifold, carb. air intake, air cleaner intake, other)	Engine Induction System
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap In Standard System Engine Air Cleaner In Optional System
	Flame arrestor (screen, check valve, other)	Check Valve in Flow Control Valve

(a) One Reverse Flow with straight-through resonator.

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ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor			
Fuel Tank	Capacity (gals.)	20			
	Filler location	Side	Rear	Side	Rear
Fuel Pump	Type (elec. or mech.)	Mechanical			
	Locations	Engine			
	Pressure range	4.00-5.25 (16" Above Outlet) at 1800 rpm.			
Vacuum booster (std., optional, none)		None			
Fuel Filter	Type	Porous Metal	Pleated Paper	Porous Metal	
	Locations	Engine (a)			
Carburetor	Choke type	Integral Automatic			
	Intake manifold heat control (exhaust or water)	Exhaust			
	Air clnr. type	Standard	Polyurethane		
	Optional	None			

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
433-435-443 (b)	225*	Manual (3)	Rochester	BC	1-1 bbl.	1.5625
	225	Automatic	"	BC	1-1 bbl.	1.5625
	300	Manual (3)	"	2GC	1-2 bbl.	1.4375
	300	Automatic	"	2GC	1-2 bbl.	1.4375
	300	Manual (4)	"	2GC	1-2 bbl.	1.4375
434-436-442-444	300*	Manual (3)	"	2GC	1-2 bbl.	1.4375
	300	Automatic	"	2GC	1-2 bbl.	1.4375
	300	Manual (4) (b)	"	2GC	1-2 bbl.	1.4375
	300	Manual (3)	Carter	AFB	1-4 bbl.	(c)
	300	Automatic	Carter	AFB	1-4 bbl.	(c)
	300	Manual (4) (b)	Carter	AFB	1-4 bbl.	(c)

(a) All Models equipped with plastic mesh tank filter
 (b) 4 Speed manual transmission not available in models 44255, 44265, 44455 & 44465
 (c) 1.4375 Pri. & Sec.
 * Standard Equipment Engine

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MODEL	SPECIAL		SPORTWAGON		SKYLARK		
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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)		Tube and Center						
Cooling system capacity	With heater (qt.)	10.7	12.7	10.7				
	Without heater (qt.)	10.0	11.7	10.0				
	Opt. equipment-specify (qt.)	11.2(a)	14.0 (a)	11.2(a)				
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		Four (76 x 104) -- 7 Blades used with A/C				
		Diameter		17.12(b)	18"	17.12(b)		
Ratio-fan to crankshaft rev.		.85 (1.15 with A/C)						
Fan cutout type		None (Thermo Clutch with A/C)						
Bearing type		Single Row Ball						
*Drive belts (indicate belt used by letter)	Fan		"A" Generator and Water Pump					
	Generator		"A" Fan and Water Pump					
	Water Pump		"A" Fan and Generator					
	Power Steering		"B"					
	Air Conditioning		"C"					

	"A"	"B"	"C"
* Drive Belt Dimensions			
Angle of V	38	38	38
Nominal length (SAE)	43.92	53.00	60.00
Width	.38	.47	.47

(a) With air conditioning
 (b) 18" on V8 and 17" on V6 with A/C.

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	SPECIAL	SPORTWAGON	SKYLARK
MODEL	43335	43369	44255 44369

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco 558 (a)			
	Voltage Rtg. & Total Plates	12-66 (d)			
	SAE Designation & Amp Hr. Rtg	28M-61			
	Location	Right Front Fender Skirt			
	Terminal grounded	Negative			
Generator	Make	Delco-Remy			
	Model	1100705	1100691	1100705	
	Type	Diode Rectified Alternator			
	Ratio—Gen. to Cr/s rev.	2.34 (b)			
	Gen. cut-in (hot)—engine rpm	5 Amps.Min. @ Idle (c)			
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 con-ditions	Temperature			
Load		Run 15 Minutes @ 10 Amps			
Other		Battery must be in circuit			

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco-Remy			
	Model	1107266	1107306	1107266	
	Rotation (drive end view)	Clockwise			
	Engine cranking speed	Approx. 160 R.P.M.			
	Test conditions				
	Lock test	Amps	Not Available		
		Volts	Not Available		
		Torque (lb. ft.)	Not Available		
	No load test	Amps	65.2	85	62.5
		Volts	10.6		
RPM (min.)		6200	3600	6200	
Motor control	Switch (solenoid, manual)	Solenoid			
	Starting procedure	<p>With manual transmission, place control lever in Neutral and depress clutch pedal. Turn ignition key clockwise and release when engine starts.</p> <p>With automatic transmission, selector lever must be in Neutral or Park. Turn ignition key clockwise and release when engine starts.</p>			

- (a) Wet charge. (Model 559 Dry charge) (Continued)
 (b) 2.6 with A/C
 (c) 15 Amps. min. at idle with A/C.
 (d) 70 Amp. Battery (T60) available as an option on V8 Engine Equipped Cars.

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MAKE OF CAR	BUICK	MODEL YEAR	1965	DATE ISSUED	9-15-64	REVISED (•)
		SPECIAL		SPORTWAGON		SKYLARK
MODEL	43335	43369		44255		44369

ELECTRICAL—STARTING SYSTEM (cont.)

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

ELECTRICAL—IGNITION SYSTEM

Coil	Make	Delco-Remy				
	Model	1115161				
	Amps	Engine stopped	3.8 @ 12.6			
		Engine idling	2.3 @ 12.6			
Distributor	Make	Delco-Remy				
	Model	1110309	1111083	1110309		
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	700-900		550-750	
		Intermediate points deg. @ rpm	16° @ 1800	14° @ 1400	16° @ 1800	
		Max deg. @ rpm	28° @ 4200		32° @ 4600	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)				
		Intermediate points, deg @ in Hg	10.5 @ 12			
		Max. deg. in. Hg.	19.5			
		Breaker gap (in.)	.013-.019			
		Cam angle (deg.)	30° ± 1°			
		Breaker arm tension (oz.)	19-23			
	Timing	Crankshaft deg. @ rpm.	5° @ 550	2.5° @ 550	5° @ 550	
		Mark location	Balancer			
Cylinder numbering system (see page 2)		Lt. Bank - 1-3-5	Lt. -1-3-5-7		Lt. - 1-3-5	
		Rt. Bank - 2-4-6	Rt. -2-4-6-8		Rt. - 2-4-6	
	Firing order (see page 2)	1-6-5-4-3-2		1-8-4-3-6-5-7-2		
Spark Plug	Make and model	AC 44S				
	Thread (mm)	14				
	Tightening torque (lb. ft.)	25-30				
	Gap	.030-.035				
Cable	Conductor type	4000 ohms per foot (Resistance Cable)				
	Insulation type	Neoprene with inner braid				
	Spark plug protector	Hypalon Boot				

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 SWITCHES

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			
Ignition switch	Identify positions in order and circuits controlled	Fully counter clockwise - Accessories "On" - Ignition "Off" 1st position clockwise - Ignition and Accessories "Off" - Locked 2nd position clockwise - Ignition and Accessories "On" 3rd position (spring loaded) - "Start"	
	Provision for illumination	No	
	Location	Lower control panel - Right side of Steering Column	
Main lighting switch	Identify positions and lamps controlled	1st position out - Park and Tail lamps. 2nd position out - Headlamps and Tail lamps. Rotating knob fully counter clockwise turns dome light "On" and instruments on "Bright". Clockwise turns dome light "Off" and dims instruments. - Fully clockwise turns instrument lights "Off".	
Other light switches	Locations and lamps controlled		
	Stop Light Glove Comp.	-----Mechanical on brake pedal support brackets. In glove compartment(b)	
Other switches	Locations and devices controlled		
	Direct Signal	-----Left side of steering column.	
	Backup Light	-----St. column between instr. panel and dash (a).	
	Neutral Safety	-----St. column between instr. panel and dash.	
	Wiper	-----Lower control panel - Left side.	
	Transmission	-----At carburetor dash pot.	
Headlight dimmer	Trans. Control	-----Mounted on manifold, actuated by throttle lever.	
	Headlight dimmer	-----Floor pan--Left side of brake pedal.	
Windshield wiper	Make	Delco Appliance	
	Type	Electric	
	Vacuum booster provision	None	
Washer provision		Yes - Optional	
Horn	Type	Solenoid	
	Number used	One	Two
	Amp draw (each)	Both - 7 to 11 amps.	

- (a) On transmission of 4-speed assembly.
 (b) Optional at extra cost on Series 433-434.

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ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.

Headlamps & arrangement		2-4001, 2-4002 - Dual-Horizontal	
Headlamp beam indicator		1-194	
Parking		2-1157 A	
Tail		2-1157	6-1157
Stop		Same Bulb as Taillamp (a)	
Direction signal	Front	Same Bulb as Parking Light	
	Rear	Same Bulb as Taillamp	
	Indicator	2-194	
License Plate		97	
Oil pressure indicator		1-194	
Charge indicator		1-194	
Instrument		3-194	
Clock		None	
Radio		*1-1881	

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

Ignition lock	None		
Back up	*2-1156		
Dome	1-211		
Glove compartment	1-1893(b)		
Prkg. brake signal	*1.1816		
Luggage compartment	*1-89		*1-89
Underhood	Not Available		
Courtesy	2-89		
Map			
Water Temp.	1-194		
Heater Control	1-1893		
Ash Tray	1-1445 (b)		
Trans. Range	*1-1893		
Spot Light	*1-4404		

* Accessory at extra cost.

(a) Four bulbs used on Skylark.

(b) Extra cost on Series 433-434.

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ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

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

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

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	27.48	25.0	28.60	25.05
		Highest	27.48	25.0	28.60	25.05
	Stop		27.48	25.0	28.60	25.05
	Backup		16.83	17.52	17.96	17.52
	License, rear		17.80	19.48	18.93	19.48
	Directional	Front	16.43	16.05	16.84	16.05
		Rear	27.48	25.00	28.60	25.05
	Headlamp	Inside	25.05	24.84	25.34	24.84
		Outside*	25.05	24.84	25.34	24.84
Distance from C/L of car to center of bulb	Tail	Inside	---			
		Outside	51.92		50.40	
	Stop	51.92		50.40		
	Backup	24.92				
	License, rear	Centerline				
	Directional	Front	55.82			
		Rear	51.92		50.40	34.28
Headlamp	Inside	45.82				
	Outside*	45.82				

* If single headlamps are used enter here.

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MODEL		43335	43369	44255		44369

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Dry		
Type pressure plate springs		Belleville Spring		
Effective plate pressure (lb.)		1500-1800	1900-2100	1500-1800
No. of clutch driven discs		One		
Clutch facing	Material	Woven		
	Outside & inside dia.	9.12-6.12	10.4 x 6.5	9.12-6.12
	Total eff. area (sq.in.)	71.88	103.4	71.88
	Thickness	.135		
	Engagement cushioning method	Spring		
Release bearing	Type & method of lubrication	Ball Sealed		
Torsional damping	Methods; springs, friction material	Springs		

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	Not Available
Automatic (std. or opt.)	Optional (Super Turbine)

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		Three (a)	4	•	
Transmission ratios	In first	2.58	2.56	•	
	In second	1.48	1.91	•	
	In third	1.00	1.48	•	
	In fourth	--	1	•	
	In reverse	2.58	2.64	•	
Synchronous meshing, specify gears		2nd & 3rd	1, 2, 3 & 4		
Shift lever location		Steering Column (b)	Floor	•	
Lubricant	Capacity (pt.)	2.0	2.25	•	
	Type recommended	A9 Mineral Oil	Multi - Purpose		
	SAE viscosity number	Summer	SAE 80-90	80 or 90	
		Winter	SAE 80-90	80	
		Extreme cold	SAE 80-90	80	

- (a) Four-speed manual available all Models except 44255, 44265, 44455, & 44465.
 (b) Floor location on cars equipped with four-speed manual.

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Super Turbine (Optional)		
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	<u>DRIVE</u>	<u>LOW</u>	<u>REVERSE</u>
	1st 1.765 Direct 1.000	1.765	1.765
(Each "Times" converter ratio.)			
Max. upshift speeds—drive range	56 (V6)	64 (V8)	
Max. kickdown speeds—drive range	51 (V6)	59 (V8)	
Torque converter	Number of elements 3		
	Max. ratio at stall (V6) 2.75 Low Angle, 1.95 High Angle, (V8) 2.45 Low, 1.80 High		
	Type of cooling (air, water) 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 transmission	3.25 x 60.00 x .065	3.25 x 58.80 x .065
	Overdrive transmission	Not Available	
	Automatic transmission	3.25 x 60.00 x .065	(b)

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

(Continued)

- (a) Automatic Fluid type "A" (Suffix "A" must be identified by AQ-ATF embossed on can or use "Buick Special Oil")
- (b) Outer tube - 3.25 x 58.80 x .065. Inner tube - 2.50 x .065 (Rubber Biscuit Type).

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	Prepack
Universal joints	Make	Saginaw
	Number used	2
	Type (ball and trunnion, 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 (see instructions)	Salisbury Hypoid - Semi-Floating			
Limited Slip differential, type	Optional			
Drive Pinion Offset	1.50			
No. of differential pinions	2			
Gear ratios (Std. equip.)	Manual transmission	3.36	3.23	
	Overdrive transmission	Not Available		
	Automatic transmission	3.23	3.08	
Ring gear O.D. (std. ratio)	8.125			
Pinion adjustment (shim, other)	Shim			
Pinion bearing adj. (shim, other)	Shim			
Wheel bearing type	Ball			
Lubricant	Capacity (pt.)	2.5		
	Type recommended	MLL-L-2105B		
	SAE viscosity number	Summer	90	
		Winter	90	
Extreme cold		90		

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	3.23		3.08
No. of teeth	Pinion	13	12
	Ring gear	42	37

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DRIVE UNITS--WHEELS

Type & material		Disc Steel		
Rim (size and flange type)	Std.	14 x 5.0J	14 x 6.0 JK	14 x 5.0 J
	Opt.	14 x 6.0 JK	None	14 x 6.0 J
Attachment	Type (bolt or stud)	Stud		
	Circle diameter	4.75		
	Number and size	Five - .5625-18		

DRIVE UNITS--TIRES

Standard (List option below)	Size & ply	7.35-14(2)	6.95-14(2)	7.75-14(2)	6.95-14(2)
	Type - Nylon, etc.	Rayon			
Rev/mile at 50 mph.		800	819	776	819
Inflation press.(cold)	Front	22	24	22	24
	Rear	28	24	28	24
Optional tires - size and ply		7.75-14(2)	7.35-14(2)	7.75-14(4)	7.35-14(2)

BRAKES--SERVICE

Type (duo-servo, disc, balanced, etc.)		Duo-Servo
Self adjusting (std., opt., N.A.)		Standard
Hydraulic system type (single, dual, etc.)		Single
Power brake make & type (remote, integral, etc.)		Delco-Moraine or Kelsey Hayes (Int. Vac. Susp.)(a)
Effective area (sq. in.)*		142.1
Gross lining area (sq. in.)**		155.8
Swept drum area (sq. in.)***		268.6
Percent brake effectiveness—front		56.2
Drum	Diameter	9.465/9.505
	Front Rear	9.495/9.505
Type and material		Composite Cast Iron
Wheel cylinder bore	Front	1.0625
	Rear	.9375
Master cylinder bore		1.00
Available pedal travel		6.70(b)
Line pressure at 100 lb. pedal load		800 psi (c)
Shoe clearance adjustment		.015

(Continued)

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes:

Widest lining contact width for each brake x its drum circumference.

(a) Optional Equipment

(b) 4.00 inch travel when power brake equipped.

(c) 360 psi with 30# pedal load at 20" hg. vacuum with optional power brake system.

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Primary - Extruded Molded	
		Size (length x width x thickness)	Front wheel	7.520 x 2.50 x .196
			Rear wheel	7.520 x 2.00 x .196
		Segments per shoe		One
	Rear Shoe	Material	Secondary - Extruded Molded	
		Size (length x width x thickness)	Front wheel	9.793 x 2.50 x .265
			Rear wheel	9.793 x 2.00 x .265
Segments per shoe		One		

BRAKES—PARKING

Type of control	Step-On (Hand Release)	
Location of control	Left Side at Cowl Panel	
Operates on	Rear Shoes	
If separate from service brakes	Type (internal or external)	None
	Drum diameter	None
	Lining size (length x width x thickness)	None

FRAME or UNITIZED CONSTRUCTION

Type and description	PERIMETER TYPE
----------------------	----------------

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

Provision for car leveling	None	
Provision for brake dip control	Yes	
Provision for acc. squat control	Yes	
Special provisions for car jacking	No	
Shock absorber front & rear	Type	direct
	Make	Delco
	Piston dia.	
Other special features	None	

SUSPENSION—FRONT

Type and description	Coil Springs and Ball Joint
----------------------	-----------------------------

* Air Suspension:
 Air spring type
 Compressor data
 type
 make
 drive ratio

Normal operating pressures
 spring rates
 leveling data

(Continued)

AMA Specifications – Passenger Cars

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SUSPENSION FRONT (cont.)

Spring	Type	Coil		
	Material	SAE 9260 Steel		
	Size (coil design height & I.D.; bar length x dia.)	11.4 x 3.60 x 147.5 x .631	11.4 x 3.60 x 147.5 x .639	
	Spring rate (lb. per in.)	305	320	
	Rate at wheel (lb. per in.)	94	99	
	Design load (lb. @ design height)	1560 (a)	1810 (a)	1610(a)
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	1070-.750		

STEERING

Manual (std., opt., NA)		Standard				
Power (std., opt., NA)		Optional				
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt (b)				
	(std., opt., NA)	Optional				
Wheel diameter	Manual	16"				
	Power	16"				
Turning diameter	Outside front	Wall to wall (l. & r.)	41.5	44.84	41.5	
		Curb to curb (l. & r.)	40.6	41.75	40.6	
	Inside rear	Wall to wall (l. & r.)	24.9	25.13	24.9	
		Curb to curb (l. & r.)	25.7	26.76	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				
Power	Gear	Type	Recirculating Ball Nut-integral with power piston			
		Ratios	Gear	17.5		
			Overall	20.9		
		Pump driven by	Belt			
	Number wheel turns	4.06				
	Linkage	Type	Parallelogram			
Location (front or rear of wheels, other)		Front				
Drag link (trans. or longit.)		Transverse				
Tie rods (one or two)		Two				

(a) Loads shown are for left spring. Right spring is 50 lbs. higher. (Continued)

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

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STEERING (cont.)

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 and preferred)	Caster (deg.)		$1^{\circ} + 1/4^{\circ}$
	Camber (deg.)		$1^{\circ} + 1/4^{\circ}$
	Toe-in (outside tread-inches)		.21-.31
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.2945
		Outer bearing	.7494
	Thread size		.75-20 NEF
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description		Coil Springs				
Drive and torq. taken through (see page 17)		Control Arms				
Spring	Type	Coil				
	Material	9260				
	Size (length x width, coil design height and I.D.; bar length & dia.)	(a)	(b)	(c)	(b)	
	Spring rate (lb. per in.)	138	106	150	106	
	Rate at wheel (lb. per in.)	127	99	137	99	
	Design load (lb. at design height)	1045	800	1165	800	
	Mounting insulation type		Rubber			
	If leaf	No. of leaves		Not Used		
Inserts		Type and size	Not Used			
		Material	Not Used			
Shackle (comp. or tens.)		Not Used				
Stabilizer	Type (link, linkless, frameless)		Not Used			
	Material		Not Used			
Track bar type		Not Used				

- (a) Design height 8.52-5.53 I.D., 130.00 x .600
- (b) Design height 8.52-5.50 I.D., 129.00 x .560
- (c) Design height 8.52-5.53 I.D., 127.00 x .610

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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 (Serial) No. Location		Left Front Pillar Post			
Engine No. Location		Front Face - Lt. 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	---			
Seat back type	Front	Zig Zag			
	Rear	Zig Zag			
	3rd seat	---			
Windshield glass type (i.e., single curved - laminated plate)		Compound Curved			
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound			
Side glass type (i.e., curved - tempered plate)		Curved			
Side glass exposed surface area		2540.4	1310.6	2779.0	1310.6
Windshield glass exposed surface area		1107.1			
Backlight glass exposed surface area		768.4	1031.6	768.4	1031.6
Total glass exposed surface area		4415.9	3449.3	4654.5	3449.3

BODY—CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)

Power windows	Side Windows	Optional	N. A.	Optional
	Vent Windows	Not Available		
	Backlight or tailgate	Optional	-----	Optional -----
Power seats (specify type as well as availability)		Optional - 4 Way Bench Type		
Reclining front seat back		Not Available		
Front seat headrest		Not Available		
Radios (specify type as well as availability)		Optional (Push Button Type)		
Rear seat speaker		Optional		
Power Antenna		Not Available		
Clock		Not Available		Optional
Air Conditioner (specify type and availability)		Optional		

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Choke, Automatic	8	Rims	18
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Clutch – Pedal Operated	15	Rods – Connecting	4
Coil, Ignition	11	Shock Absorbers, Front & Rear	19
Connecting Rods	4	Spark Plugs	11
Cooling System	9	Speedometer	12
Crankcase Ventilation	7	Springs – Front & Rear Suspension	20, 21
Crankshaft	5	Valve, Engine	6
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Engine		Suppression – Ignition, Radio	11
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