

# AMA Specifications—Passenger Car

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MANUFACTURER	BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME	BUICK SPECIAL-SKYLARK-SPORTWAGON (V-8 MODELS)
MAILING ADDRESS	1051 E. 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 DESIGNATION
SPECIAL	2 Door 6 Passenger Thin Pillar Coupe	43407
	2 Door 2 Seat Station Wagon	43435
	2 Door 6 Passenger Convertible Coupe	43467
	2 Door 6 Passenger Thin Pillar Sedan	43469
SPECIAL DELUXE	2 Door 6 Passenger Thin Pillar Coupe	43607
	2 Door 6 Passenger Hardtop Coupe	43617
	4 Door 2 Seat Station Wagon	43635
	4 Door 6 Passenger Thin Pillar Sedan	43669
SPORTWAGON	4 Door 2 Seat Station Wagon	44255
	4 Door 3 Seat Station Wagon	44265
SPORTWAGON CUSTOM	4 Door 2 Seat Station Wagon	44455
	4 Door 3 Seat Station Wagon	44465
SKYLARK	2 Door 6 Passenger Thin Pillar Coupe	44407
	2 Door 6 Passenger Hardtop Coupe	44417
	4 Door 6 Passenger Sedan	44439
	2 Door 6 Passenger Convertible Coupe	44467

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## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	SPECIAL		SKYLARK	SPORTWAGON
		43435	43469	44439	44255
Wheelbase (L101)		115.0			120.0
Track	Front (W101)	58.0			
	Rear (W102)	59.0			
Maximum Overall Dimensions	Length (L103)	204.0			209.0
	Width (W103)	75.5			
	Height (H101)	55.4	54.3		58.5
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	3.23	3.23	3.36
	Manual - 4 speed	17	Not Available		
	Overdrive	17	Not Available		
	Automatic	17	2.93	2.78	3.23
Tire size		18	7.75-14	7.35 x 14	8.25-14
Engine	Type, no. cyl., valve arr.	3	V8 - 90° In Head		
	Fuel system (Carb., other)	10	Carburetor		
	Bore and stroke	3	3.750 x 3.400		3.750 x 3.850
	Piston displ., cu. in.	3	300		340
	Std. compression ratio	3	9.0		
	Max. bhp at engine rpm	3	210 @ 4600		220 @ 4000
	Max. torque at rpm	3	310 @ 2400		340 @ 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	SPORTWAGON		
		43435	43469	44439	44255		
<b>FRONT COMPARTMENT</b>							
Shoulder room	W3	58.8		58.0	58.2		
Hip room	W5	59.9		59.6	59.9		
Max. eff. leg room - accelerator	L34	41.1		41.3	41.3		
Effective head room	H61	37.8	38.1	38.2	37.9		
H Point to Heel point	H30	8.6	8.7	8.2	8.1		
<b>REAR COMPARTMENT</b>							
Shoulder room	W4	58.8		58.1	58.0		
Hip room	W6	59.9	60.0	59.7	59.9		
Minimum effective leg room	L51	36.0		35.7	38.7		
Effective head room	H63	38.3		37.2	39.3		
<b>LUGGAGE COMPARTMENT</b>							
Usable luggage capacity (Cu. Ft.)	V1	---	18.9		---		
Liftover height	H195	28.4			---		
Position of spare tire storage		Vertical	Horizontal		Vertical		
Method of holding lid open		Torsion Rods					
<b>STATION WAGON—THIRD SEAT</b>							
Hip room	W86	None Built in These Series			44.9 (a)		
Effective leg room	L86				(b)		
Effective head room	H86				36.7		
Seat facing direction					Front		
<b>STATION WAGON—CARGO SPACE</b>							
MODEL	SAE Ref. No.	SPECIAL		SPORTWAGON			
		43435	43635	44255	44265	44455	44465
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		97.2	97.4	97.2	97.4
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	31.1		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	85.6		97.9		96.6	

(a) Models 44265 and 44465.

(b) 36.0 - Model 44265 - 35.7 Model 44465.

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## ENGINE—GENERAL

Type, no. cyls., valve arr.	V8 - 90° - In-Head		
Bore and stroke (nominal)	3.750 x 3.400		3.750 x 3.850
Piston displacement, cu. in.	300		340
Bore spacing (C/L to C/L)	4.240		
No. system (front to rear)	L. Bank	1-3-5-7	
	R. Bank	2-4-6-8	
Firing order	1-8-4-3-6-5-7-2		
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	45.0		
Publishing max. bhp* @ eng. RPM	210 @ 4600		220 @ 4000
	310 @ 2400		340 @ 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 SPECIAL DELUXE SKYLARK	*300	2 Bb1	9.0	210@ 4600	310@ 2400	Manual (3)	3.08 Coupes & Sedans 3.23 Wagons
SERIES: 434-436- 444 (Except Model 44439)	300	2 Bb1	9.0	210@ 4600	310@ 2400	Automatic	2.78 Coupes & Sedans 2.93 Wagons
	340	4 Bb1	10.25	260@ 4000	365@ 2800	Manual (3)	3.08 Coupes & Sedans 3.23 Wagons
	340	4 Bb1	10.25	260@ 4000	365@ 2800	Automatic	2.78 Coupes & Sedans 2.93 Wagons
SPORTWAGON & SKYLARK Model 44439	*340	2 Bb1	9.0	220@ 4000	340@ 2400	Manual (3)	3.36 (Sportwagon) 3.08 (Skylark 44439)
	340	2 Bb1	9.0	220@ 4000	340@ 2400	Automatic	3.23 (Sportwagon) 2.78 (Skylark 44439)
ALL SERIES 442 & SKYLARK Model 44439	340	4 Bb1	10.25	260@ 4000	365@ 2800	Manual (3)	3.36 (Sportwagon) 3.08 (Skylark 44439)
	340	4 Bb1	10.25	260@ 4000	365@ 2800	Automatic	3.23 (Sportwagon) 2.78 (Skylark 44439)

\* Standard Equipment

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<b>MODEL</b>	<b>SPECIAL</b>	<b>SKYLARK</b>	<b>SPORTWAGON</b>				
	43435	43469	44439	44255			

## ENGINE—RINGS

<b>Function</b> (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
<b>Compression</b>	Description - material, coating, etc.	#1 Cast Iron - Chrome Plated #2 Cast Iron - Lubrited
	Width	#1 - .0785 - .0789 #2 - .077 - .078
	Gap	.010 - .020
<b>Oil</b>	Description - material, coating, etc.	Steel Uncoated
	Width	.181 - .187
	Gap	.015 - .035
<b>Expanders</b>		Steel Oil Ring - Hump Type

## ENGINE—PISTON PINS

<b>Material</b>		Extruded SAE-1018
<b>Length</b>		3.060
<b>Diameter</b>		.9394 - .9397
<b>Type</b>	Locked in rod, in piston, floating, etc.	Pressed In Rod
	Bushing	In rod or piston
		Material
<b>Clearance</b>	In piston	.00005 - .0001 Select
	In rod	.0007 - .0015 Select Press
<b>Direction &amp; amount offset in piston</b>		.040 (Toward High Thrust Side)

## ENGINE—CONNECTING RODS

<b>Material</b>		Pearlitic Malleable Iron
<b>Weight (oz.)</b>	20.8	22.8
<b>Length (center to center)</b>	5.960	6.385
<b>Bearing</b>	Material & Type	Steel Backed - M/400 Aluminum - Removable
	Overall length	.737
	Clearance (limits)	.0020 - .0023
	End play	.006 - .014

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## ENGINE—CRANKSHAFT

Material		Pearlitic Malleable Iron						
Vibration damper type		Rubber Absorption						
End thrust taken by bearing (No.)		Three						
Crankshaft end play		.004-.008						
Main bearing	Material & type		Steel Backed - All Removable				M/400 Except #5 Lower is M/100 Durex	
	Clearance		.0004-.0015					
	Journal dia. and bearing overall length	No. 1	2.4995 x .864		2.9995 x .864			
		No. 2	2.4995 x 1.057		2.9995 x .864			
		No. 3	2.4995 x .864		2.9995 x 1.057			
		No. 4	2.4995 x .864		2.9995 x .864			
		No. 5	None		2.9995 x .864			
		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	Five					
Type of Drive	Gear or chain		Chain				
	Crankshaft gear or sprocket material		Sintered Iron				
	Camshaft gear or sprocket material		Nylon Coated Aluminum				
	Timing chain	No. of links	54				
		Width	.875				
Pitch		.375					

## ENGINE—VALVE SYSTEM

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

(Continued)

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**ENGINE—VALVE SYSTEM (cont.)**

Timing	Intake	Opens (°BTC)	30	32
		Closes (°ABC)	76	82
		Duration -deg.	286	294
	Exhaust	Opens (°BBC)	68	70
		Closes (°ATC)	37	44
		Duration -deg.	285	294
	Valve opening overlap		67	76
Intake	Material		SAE 1041	
	Overall length		4.645	
	Actual overall head dia.		1.8125	1.8175-1.8075
	Angle of seat & face		45	
	Seat insert material		None	
	Stem diameter		(a)	
	Stem to guide clearance		.0012-.0032 with .0003 Max. Taper	
	Lift (@ zero lash)		.393	.3992
	Outer spring press. and length	Valve closed (lb. @ in.)	64 <sup>+</sup> - 5 at 1.727	
		Valve open (lb. @ in.)	164 <sup>+</sup> - 6 at 1.340	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		GM-N82152 (21-4N)
Overall length		4.645		
Actual overall head dia.		1.375		
Angle of seat & face		45		
Seat insert material		None		
Stem diameter		.3402/.3412 (Top)	.3397/.3407 (Bottom)	
Stem to guide clearance		.0015/.0035 (Top)	.0021/.004 (Bottom)	
Lift (@ zero lash)		.401	.3992	
Outer spring press. and length		Valve closed (lb. @ in.)	64 <sup>+</sup> - 5 at 1.727	
		Valve open (lb. @ in.)	164 <sup>±</sup> 6 at 1.340	168 <sup>±</sup> 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 & Nozzle
	Cylinder walls	Splash & Nozzle

(Continued)

(a) .3415 - .3405 Dia. - Max. Allowable Taper to be .0003 with smallest dia. at valve head end.

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<b>MODEL</b>	<b>SPECIAL</b>	<b>SKYLARK</b>				
	43435	43469	44439	<b>SPORTWAGON</b> 44255		

## 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 SAE 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 Cross-Over				
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow				
Exhaust pipe dia. (O.D., wall thickness)	<table style="width: 100%; border: none;"> <tr> <td style="width: 15%; border: none;">Branch</td> <td style="width: 85%;">1.8750-.076</td> </tr> <tr> <td style="border: none;">Main</td> <td>2.25-.076</td> </tr> </table>	Branch	1.8750-.076	Main	2.25-.076
Branch	1.8750-.076				
Main	2.25-.076				
Tail pipe diameter (O.D. & wall thickness)	2.00-.048				

## ENGINE— CRANKCASE VENTILATION SYSTEM

<b>Type</b> (ventilates to atmos., induction system, other)	<b>Standard</b>	Induction System
	<b>Optional</b>	None
<b>Control Unit</b>	<b>Make and model</b>	AC
	<b>Location</b>	Right Rocker Arm Cover (a)
	<b>Energy source</b> (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
	<b>Control method</b> (variable orifice, fixed orifice, other)	Variable Orifice
<b>Complete system</b>	<b>Discharges</b> (to intake manifold, carb. air intake, air cleaner intake, other)	Intake Manifold (Std. Set-Up) A discharge into air cleaner is also used with Optional Set-Up.
	<b>Air inlet</b> (breather cap, carburetor air cleaner, other)	Breather Cap Ventilation Air Filter in Optional Systems
	<b>Flame arrestor</b> (screen, check valve, other)	Check Valve

(a) Left cover also used on State of California cars.

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	SPECIAL	SKYLARK	SPORTWAGON
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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 Relief		
	Filter (describe)	Air Inlet Through Clean Side at 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	2GC		
	Barrel size	1.4375		
	Idle speed	Drive	600	
Neutral		550		
Distributor	Aux. Adv. Systems (type)	None		
	Make	Delco Remy		
	Model	1111147	1111144	
	Cent'fgal adv. in crank degrees @ eng. rpm.	Start (rpm)	550-750	550-750
		Intermed. points deg. @ rpm	14° @ 1400	12° @ 1700
		Max. deg. @ rpm.	32° @ 4600	28° @ 4600
	Vacuum adv. in. crank degrees @ eng. rpm	Start (in Hg) intermed. points deg. @ in. Hg	. . . . . 10.5 @ 12	
		Max. deg. @ in.	. . . . . 19.5	
Vacuum Source		Carburetor Ported		
Timing - Crank degrees @ rpm		2.5 @ 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.)	Approx. 20	
	Filler location	Side	Rear
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Engine	
	Pressure range	4.25 - 5.75 @ Pump Outlet at 1800 at Cam	
Vacuum booster (std., optional, none)			None
Fuel Filter	Type	Pleated Paper	
	Locations	Engine (a)	
Carburetor	Choke type	Integral Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air cleaner type	Standard	Polyurethane
Optional		None	

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
SPECIAL SPECIAL DELUXE SKYLARK (Except Model 44439)	300*	Manual	Rochester	2 GC	1-2 Bb1	1.4375
	300	Automatic	Rochester	2 GC	1-2 Bb1	1.4375
	340	Manual	Carter	AFB	1-4 Bb1	1.4375
	340	Automatic	Carter	AFB	1-4 Bb1	1.4375
SPORTWAGON & SKYLARK Model 44439	340*	Manual	Rochester	2 GC	1-2 Bb1	1.4375
	340	Automatic	Rochester	2 GC	1-2 Bb1	1.4375
	340	Manual	Carter	AFB	1-4 Bb1	1.4375
	340	Automatic	Carter	AFB	1-4 Bb1	1.4375

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

\* Standard Equipment



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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.)	12.7	
	Without heater (qt.)	12.2	
	Opt. equipment-specify (qt.)	14.0 with A/C	14.7 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		18"
	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	B
	Generator or alternator	A	B
	Water Pump	A	B
	Power Steering	C	D
	Air Conditioning	E	F
		G	H

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	.38	.38	.38	.38	.38	.38	.38	.38			
Nominal length (SAE)	43.92	45.08	53.0	54.48	59.44	60.66	36.12	36.12			
Width	.38	.38	.47	.47	.47	.47	.32	.32			

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MODEL	SPECIAL		SKYLARK	SPORTWAGON		
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## ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco #558
	Voltage Rtg. & Total Plates		12-66
	SAE Designation & Amp Hr. Rtg.		2SMD-66
	Location		Right Front Fender Skirt
	Terminal grounded		Negative
Generator or Alternator	Make		Delco-Remy
	Model		1100691 (a)
	Type and rating		Diode Rectified Alternator (42 amps) (b)
	Output at engine idle (neutral)		12 Amps (15 with A/C)
	Ratio—Gen. to Cr/s rev.		2.29 (2.62 with A/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	13.6-14.4 @ 125°
		Current	None
	Voltage test conditions	Temperature	
Load		Run 15 Min. at 10 amps. (Max.)	
Other		Battery Must Be In Circuit	

## ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107374
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Approx. 160 rpm
	Test conditions		Engine at Operating Temp.
	No load test	Amps	85
		Volts	10.6
RPM (min)		3600	
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Place manual transmission in Neutral and depress clutch pedal. Turn ignition key clockwise and release when engine starts. With automatic transmission, place selector lever in Park or Neutral. Turn ignition key clockwise. Release when engine starts.

(Continued)

(a) #1100710 with A/C.

(b) 55 Amps with A/C.

# AMA Specifications—Passenger Car

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MODEL	SPECIAL		SKYLARK	SPORTWAGON			
	43435	43469	44439	44255			

## 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
	Flywheel tooth face width		Auto.	160
			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 @ 12.6V	
Engine idling		2.3 @ 12.6V		
Distributor	Make		Delco-Remy	
	Model		1110376	1111159
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	550-750	
		Intermediate points deg. @ rpm.	14° @ 1400	12° @ 1700
		Max. deg. @ rpm.	32° @ 4600	28° @ 4600
	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 ± 1	
Breaker arm tension (oz.)		19-23		
Timing	Crankshaft deg. @ rpm.		2.5 at 550	
	Mark location		Harmonic Damper	Crankshaft Flange
Spark Plug	Make		AC	
	Model		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	

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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 & Regulator
------------------	--

## 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	
	Type—Standard	Electric (2-Speed)	
	Type—Optional	None	
	Vacuum booster provision	None	
	Washer provision	Yes - Standard	
Horn	Type	Solenoid	
	Number used	One	Two
	Amp draw (each)	7 to 11 Amps.	

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Dry - (Chevrolet)
Type pressure plate springs		Belleville Spring
Total spring load (lb.)		1900-2100
No. of clutch driven discs		One
Clutch facing	Material	Woven
	Outside & inside dia.	10.4--6.5
	Total eff. area (sq. in.)	103.5
	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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## 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	2.54	
	In second	1.50	
	In third	1.00	
	In fourth	--	
	In reverse	2.63	
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	Two 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, and Reverse - 1.765 Direct - 1.00  (Each Times Converter Ratio)	
Max. upshift speeds—drive range	64	
Max. kickdown speeds—drive range	59	
Torque converter	Number of elements	3
	Max. ratio at stall	2.45 (Low Angle) - 1.85 (High Angle)
	Type of cooling (air, liquid)	Water
Lubricant	Capacity—refill (pt.)	19.0 (Total) 5.0 (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 (b)		
Type (exposed, torque tube)	Exposed		
Outer diameter x length* x wall thickness	Manual 3-speed transmission	3.25 x .065 x 60.00	4.00 x .065 x 65.04
	Manual 4-speed transmission	Not Available	
	Overdrive transmission	Not Available	
	Automatic transmission	3.25 x .065 x 60.00 With Rubber Biscuits	3.25 x .065 x 58.80 With Rubber Biscuit

\* 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, and the suffix "A".
- (b) Rubber element drive used on automatic transmission cars.

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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	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)	Collapsible Spacer		
Wheel bearing type	Ball		
Lubricant*	Capacity (pt.)	2.75	
	Type recommended	MIL-L-2105B	
	SAE vis-cosity number	Summer	80
		Winter	80
Extreme cold		80	

### REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio	3.08	2.78	3.36	3.23	
No. of teeth	Pinion	13	14	11	13
	Ring gear	40	39	37	42



# AMA Specifications—Passenger Car

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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	14 x 6.00 JK
	Opt.	None	14 x 6.00 JK	None
Attachment	Type (bolt or stud)	Stud		
	Circle diameter	4.750		
	Number and size	Five - .4375-20		

## DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.75-14 (d)	7.35-14 (d)	8.25-14 (d)
	Type - Nylon, etc.	Rayon		
Rev/mile at 50 mph.		779	808	760
Inflation press. (cold)	Front	22	24	22
	Rear	26	24	26
Optional tires - size and ply		8.25-14 (d)	7.75-14 (d)	8.25-14 (e)

## 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	159.6	
Gross lining area (sq. in.) **		158.1	175.6	
Swept drum area (sq. in.) ***		268.6	298.4	
Percent brake effectiveness—front		56.2	53.0	
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	1.000	
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.

\*\* 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" Travel when power brake equipped.

(c) 480 psi with 30# pedal load with optional power brake system

(d) 2-ply with 4-ply rating

(e) 4-ply with 8-ply rating

(Continued)

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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	.096 (N)	7.40 x 2.50 x .196 (G) .096 (N)		
			Second. or in-board	.165 (N)	9.92 x 2.50 x .265 (G) .165 (N)		
		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 - Separate
---	----------------------

**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	44.84
		Curb to curb (l. & r.)	40.6	41.75
	Inside rear	Wall to wall (l. & r.)	24.9	25.13
		Curb to curb (l. & r.)	25.7	26.76
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		

(Continued)

(a) Not Available with 3-Speed Manual Transmission or Manual Steering.

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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	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	
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	
	Thread 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	Yes	Optional
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		Coils Springs & Ball Joint		
Spring	Type	Coil		
	Material	SAE - 9260		
	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	.875 (a)	.781 (a)	.937 (a)

## 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.)	8.52 x 5.530 .600 x 129.0	8.52 x 5.530 .560 x 127.0	8.52 x 5.530 .610 x 127.0	
	Spring rate (lb. per in.)	138	106.0	150	
	Rate at wheel (lb. per in.)	138	107.5	150	
	Mounting insulation type	Rubber			
	If leaf	No. of leaves	Not Used		
		Shackle (comp. or tens)	Not Used		
Stabilizer	Type (link, linkless, frameless)	Not Used			
	Material	Not Used			
Track bar type		Not Used			

(a) SAE - 1070

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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		L. F. Pillar Post
Engine No. location		
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      2732.0
Backlight glass exposed surface area		768.4      1060.4      834.0      768.4
Total glass exposed surface area		4374.1      3445.5      3373.9      4607.5

## LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	25.68	24.73	25.47	26.64
		Lowest	25.68	24.73	25.47	26.64
	Tail	Highest	26.50	27.02		27.48
		Lowest	26.50	27.02		27.48
Distance from C/L of car to center of bulb	Headlamp	Inside		24.70		
		Outside *		31.38		
	Tail	Inside	33.5	28.56		33.5
		Outside	33.5	28.56		33.5
	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	N.A.	Optional
	Vent Windows	Not Available	
	Backlight or tailgate	Opt.	Not Used
Power seats (specify type as well as availability)	Optional (4-Way Tilt)		
Reclining front seat back	Not Available		
Front seat headrest	Optional (Both Sides) Bench Seat		
Radios (specify type as well as availability)	AM or AM-FM - (Optional)		
Rear seat speaker	Optional (Except Convertible)		
Power Antenna	Not Available		
Clock	Optional		
Air Conditioner (specify type and availability)	Optional		
Speed warning device	Not Available		
Speed control device	Not Available		
Ignition lock lamp	Not Available		
Back up lamp	Standard		
Dome lamp	Standard		
Glove compartment lamp	Optional		Standard
Prkg. brake signal lamp	Not Available		
Luggage compartment lamp	N.A.	Optional	N.A.
Underhood lamp	Not Available		
Courtesy lamp	Std. on Convertible Opt. - All Others		
Map lamp	Not Available		
Auto. trans. quad. lamp	Included in Opt. Auto. Trans. Package		
Emergency flasher lamp	Not Available		
Cornering light lamp	Not Available		

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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	
43435	1698	1839	3537					3392
43469	1782	1518	3300					3148
44439	1841	1569	3410					3285
44255	1788	2016	3804					3713
Accessories & Equipment Differential Weights								
Power Windows	8.8	12.7	+21.5	Remarks				
Power Tailgate Window	0.0	5.0	+5.0	Wagons				
Power Seat - 4 way	10.7	8.8	+19.5					
Divided Rear Seat	3.5	12.5	+16.5	Wagons				
Air Conditioner	108.5	2.2	+110.7					
Positive Traction	0.0	8.5	+8.5					
Power Brakes	6.9	1.7	+8.6					
Air Injection Reactor	18.0	0.0	+18.0					
340 Cu. In. Engine	28.1	4.6	+32.7	Special Deluxe only				
Automatic Transmission	9.0	13.5	+22.5					
Tilt Steering Wheel	1.1	0.3	+ 1.4					
Power Steering	34.7	0.0	+34.7					
Deluxe Wheel Covers	.8	.8	+1.6					
Radio - Sonomatic	6.0	2.2	+8.2					
Radio - AM/FM	9.1	3.4	+12.5					
Luggage Rack	1.3	13.0	+14.3					
Heavy Duty Suspension	4.9	6.3	+11.2					

\*Registration Weight