

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	1967
		ISSUED:	February 7, 1966
		REVISED (to)	June 22, 1966

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	43307
	4 Door 2 Seat Station Wagon	43335
	4 Door 6 Passenger Thin Pillar Sedan	43369
Special Deluxe	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
	4 Door 6 Passenger Hardtop Sedan	44339
	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)	209.3	205.0	
	Width (W103)	75.4		
	Height (H101)	57.3	55.4	55.5
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	
	Manual - 4 speed	17	Not Available	
	Overdrive	17	Not Available	
	Automatic	17	3.23	2.93
Tire size	18	7.75 - 14		
Engine	Type, no. cyl., valve arr.	3	V-6 - 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	35.8	35.7
Effective head room	H63	38.3	37.2	
LUGGAGE COMPARTMENT				
Usable luggage capacity	V1			
Liftover height	H195			
Position of spare tire storage		Vertical	Horizontal	
Method of holding lid open		Torsional Rods		
STATION WAGON—THIRD SEAT				
Hip room	W86	None In This Series		
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	85.7		

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MODEL	43335	SPECIAL	43369	SKYLARK	44339		

ENGINE—GENERAL

Type, no. cyls., valve arr.	V-6 - 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	L. Bank	1-3-5
(front to rear)	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	.0011 - .0017
		Bottom	.0011 - .0027
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 Bbl.	9.0	160@ 4200	235@ 2400	Manual (3)	3.23 (All Styles)
	225	2 Bbl.	9.0	160@ 4200	235@ 2400	Automatic	2.93 (Sedans, Coupes & Conv.) 3.23 (Sedans, Coupes & Conv.) 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	None
		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)	.0002 - .0023
	End play	.006 - .014 (a)

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ENGINE—CRANKSHAFT

Material		Nodular 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)		.401		
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
Make and model		A.C.
	Location	Right Rocker Arm Cover (a)
Control Unit	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	
Air Injection Pump	Type	Articulating 3 Vane	
	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	600	
	Drive	550	
	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)	----- 6 - 8
		Intermed. points deg.@ in. Hg	----- 10.5 @ 12
Max. deg.@ in.		----- 19.5	
Vacuum Source	Carburetor Ported		
Timing - Crank degrees @ rpm	5° @ 650		
Cooling System (describe changes)	Same as Standard		
Exhaust System (describe changes)	Same as Standard		

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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)	190 ^o	
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 1040) 7 with A/C	
	Diameter	STD 17.12" - 17" (V6)	
	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	
	A. I. R.	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	225 300	225 300	225 300	225 300							

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy #Y54
	Voltage Rtg. & Total Plates		12-54
	SAE Designation & Amp Hr. Rtg.		17MI - 44
	Location		R. F. Fender Skirt
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100761 (a)
	Type and rating		Diode Rectified Alternator (37 amp) (b)
	Output at engine idle (neutral)		10 amps Min.
	Ratio—Gen. to Cr/s rev.		2.29 (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 @ 1250
		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		1107596
	Rotation (drive end view)		Clockwise
	Engine cranking speed		Approximately 160 RPM
	Test conditions		Engine at Operating Temperature
	No load test	Amps	58
		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.

- (a) 1100774 with A/C
- (b) 55 amps with A/C
- (c) 2.54 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	160
			Manual
			Auto.
Flywheel tooth face width		.375	
		Manual	
		Auto.	

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° @ 1800
		Max. deg. @ rpm.	28° @ 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° ± 1°
	Breaker arm tension (oz.)		19-23
Timing	Crankshaft deg. @ rpm.		5° @ 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 Products Division	
	Type—Standard	Electric (Two Speed)	
	Type—Optional	None	
	Vacuum booster provision	None	
	Washer provision	Yes - Standard	
Horn	Type	Solenoid	
	Number used	One	Two
	Amp draw (each)	4.5/5.5	

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Dry		
Type pressure plate springs	Belleville 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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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	Multi - Purpose Gear Lubricant (a)	
	SAE viscosity number	Summer	SAE 80-90 or 90
		Winter	SAE 80-90 or 90
		Extreme cold	SAE 80-90 or 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			

(a) MIL - L - 2105B

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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	<u>DRIVE</u>	<u>LOW</u>	<u>REVERSE</u>
	1st Gear 1.765	1.765	1.765
	2nd Gear 1.000		
	- - - - - Each Times Converter Ratio - - - - -		
Max. upshift speeds—drive range	64	60	61
Max. kickdown speeds—drive range	60	56	57
Torque converter	Number of elements 3		
	Max. ratio at stall 2.75 Low Angle 1.95 High Angle		
Lubricant	Type of cooling (air, liquid) Water		
	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 and the suffix "A".

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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)	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		3.23	3.90	2.93	3.36	3.55	2.78
No. of teeth	Pinion	13	10	14	11	11	14
	Ring gear	42	39	41	37	39	39

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DRIVE UNITS—WHEELS

Type & material		Disc Steel
Rim (size and flange type)	Std.	14 x 6.00 JK
	Opt.	None
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)
	Type - Nylon, etc.	(Optional) - Rayon-Polyester-Nylon
Rev./mile at 50 mph.		779
Inflation press. (cold)	Front	
	Rear	
Optional tires - size and ply		8.25-14 (d)

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Duo-Servo-Std. (Disc - Front-Opt)	
Self adjusting (std., opt., N.A.)		Standard	
Hydraulic system type (single, dual, etc.)		Dual	
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		59.0	
Drum or Rotor	Diameter	Front	
		Rear	
	Type and material		Composite Cast Iron
	Rotor (vented or solid)		
No. pistons per caliper			
Wheel cylinder bore	Front	1.125	
	Rear	.9375	
Master cylinder bore		1.00	
Available pedal travel		6.81 (b)	
Line pressure at 100 lb. pedal load		830 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) 4.40 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 (Disc Fronts - Optional)	
	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)		Opt	
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	

(Continued)

(a) Not available with 3-speed manual transmission with column shift.

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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° 0' @ 1° 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.)		$-\frac{1}{2}^{\circ} \pm \frac{1}{2}^{\circ}$ (Curb Height)	
	Camber (deg.)		$+\frac{1}{2}^{\circ} \pm \frac{1}{2}^{\circ}$ (Curb Height)	
	Toe-in (outside track inches)		.12 to .25 (Curb Height)	
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	

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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	Direct
Make	Delco
Piston dia.	1.00
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 3.600 x 146.75 x .600
	Spring rate (lb. per in.)	250
	Rate at wheel (lb. per in.)	94
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	.875 .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.)	7.62 x 5.53 x 121.0 x .590 7.62 x 5.53 x 102.5 x .530
	Spring rate (lb. per in.)	138.0 106.0
	Rate at wheel (lb. per in.)	138.0 107.5
	Mounting insulation type	Reinforced Rubber
	If leaf	Not Used
Stabilizer	No. of leaves	Not Used
	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 *	27.67	26.97	
		Lowest	27.67	26.97	
	Tail	Highest	24.35	23.44	
		Lowest	24.35	23.44	
Distance from C. L. of car to center of bulb	Headlamp	Inside	24.70		
		Outside *	31.60		
	Tail	Inside	-----	-----	-----
		Outside	28.50	27.40	
	Directional	Front	28.12		
		Rear	28.50	27.40	

* 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)	4-Way Optional		
Reclining front seat back	Not Available	Opt.-2-Door Styles Only	
Front seat headrest	Optional		
Radios (specify type as well as availability)	Sonomatic or AM-FM (Optional)		
Rear seat speaker	Optional (All Except Convertible)		
Power Antenna	Not Available		
Clock	Not Available	Optional	
Air Conditioner (specify type and availability)	Optional		
Speed warning device	Optional		
Speed control device	Optional (N.A. with Manual Transmission)		
Ignition lock lamp	Not Available		
Back up lamp	Standard		
Dome lamp	Standard		
Glove compartment lamp	Optional		
Prkg. brake signal lamp	Standard		
Luggage compartment lamp	Optional		
Underhood lamp	Optional (Dealer Item)		
Courtesy lamp	Optional (a)	Standard	
Map lamp	Not Available		
Auto. trans. quad. lamp	Optional		
Emergency flasher lamp	Standard		
Cornering light lamp	Not Available		

(a) Standard on Convertible

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