

PRELIMINARY

AMA Specifications — Passenger Car

The information contained herein is prepared, distributed by, and is solely the responsibility of the automobile manufacturing company to whose products it relates. Questions concerning these specifications should be directed to the manufacturer whose address is shown below. This uniform specification form was developed by the automobile manufacturing companies under the auspices of the Automobile Manufacturers Association.

MANUFACTURER	BUICK MOTOR DIVISION GENERAL MOTORS CORPORATION	CAR NAME	BUICK
MAILING ADDRESS	1051 E. Hamilton Avenue Flint 2, Michigan	MODEL YEAR	1963
		ISSUED:	1-25-62
		REVISED (•)	6-20-62

NOTES:

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

TABLE OF CONTENTS

General Specifications 1	Drive Units 15	Rear Suspension 21	Body & Car - General 22
Engine - Mechanical 2	Brakes 18	Body Dimensions 22	Weights 33
Electrical 10	Front Suspension & Steering . . 19	Station Wagon 31	Index 37

BODY—TYPES AND STYLE NAMES—

Body type, number of passenger & style names; use manufacturer's code for series & body style.

MODELBODY STYLESpecial

4019	Sedan - 4 Door 6 Window Thin Pillar
4027	Coupe - 2 Door 4 Window Thin Pillar
4035	Station Wagon - 4 Door 6 Window (2 Seats)
4045	Station Wagon - 4 Door 6 Window (3 Seats)
4067	Coupe - 2 Door 4 Window Convertible
4119	Sedan - 4 Door 6 Window Thin Pillar
4135	Station Wagon - 4 Door 6 Window (2 Seats)

SKYLARK

4347	Coupe - 2 Door 4 Window Pillarless
4367	Coupe - 2 Door 4 Window Convertible

PRELIMINARY
AMA Specifications — Passenger Car

Page 1

MAKE OF CAR BUICK **MODEL YEAR** 1963 **DATE ISSUED** 1-25-62 **REVISED(•)** 7-18-62

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.	Special		
			4000	4100	4300
Wheelbase (L101)		23	112.1		
Tread	Front (W101)	22	56.0		
	Rear (W102)	22	56.0		
Maximum Overall Dimensions	Length (L103)	23	192.1		
	Width (W103)	22	70.2		
	Height (H101)	24	54.0		53.6
Transmission— (Specify trade name - opt., not available)	Manual	15	(a) Standard		
	Overdrive	16	Not Available		
	Automatic	16	Optional		
Axle ratio	Manual	17	3.23		
	Overdrive	17	Not Available		
	Automatic	17	3.08		3.36
Tire size		18	6.50-13		
Engine	Type, no. cyl., valve arr.	2	90° V-6 in Head	90° V-8 in Head	
	Fuel system (Carb., other)	8	Carburetor		
	Bore and stroke	2	3.625 x 3.20	3.50 x 2.80	
	Piston displ., cu.in.	2	198	215	
	Std. compression ratio	2	8.8	9.0	11.0
	Max. bhp at engine rpm	2	(b) 135 @ 4600	(b) 155 @ 4600	(b) 200 @ 5000
	Max. torque at rpm	2	(b) 205 @ 2400	(b) 220 @ 2400	(b) 240 @ 3200

(a) Three-speed standard - Four-speed available as optional equipment.

(b) Same when Manual or "Dual Path" Transmission-equipped.

PRELIMINARY AMA Specifications—Passenger Car

Page 2

MAKE OF CAR	BUICK		MODEL YEAR	1963	DATE ISSUED	5-4-62	REVISED	(*)6-20-62
				Special				
MODEL	4000		4100		4300			

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V-6 in Head	90° V-8 in Head	
Bore and stroke (nominal)		3.625 x 3.20	3.50 x 2.80	
Piston displacement, cu. in.		198	215	
Bore spacing (C/L to C/L)		4.240		
No. system (front to rear)	L. Bank	1-3-5	1-3-5-7	
	R. Bank	2-4-6	2-4-6-8	
Firing order		1-6-5-4-3-2	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		8.8	9.0	11.0
Cylinder Head Material		Cast Iron	Cast Aluminum Alloy	
Cylinder Block Material		Cast Iron	Aluminum Alloy	
Cylinder Sleeve—Wet, dry, none		None	Dry	
Number of mounting points	Front	Two		
	Rear	One		
Engine Installation angle		6°20'		
Taxable $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{\text{horsepower } 2.5}$		31.54 (a)	39.2 (a)	
Published max. bhp* @ eng. RPM		135 @ 4600 (a)	155 @ 4600 (a)	200 @ 5000 (a)
Published max. torque* (lb. ft. @ RPM)		205 @ 2400 (a)	220 @ 2400 (a)	240 @ 3200 (a)
Recommended fuel regular - premium		Regular (a)		Premium (a)
Idle speed (spec. neutral or drive)	Manual	525 (b) Neutral		
	Automatic	525 (b) Neutral		

ENGINE—PISTONS

Material	Cast Aluminum Alloy			
Description and finish	Cam Ground - Transverse Slot - Divorced Skirt			
Weight (piston only) oz.	15.6		13.81	14.0
Clearance (limits)	Top land	.0215 - .0304	.0255 - .0335	
	Skirt	Top	.0005 - .0011	
		Bottom	.00075 - .00135	
Ring groove depth	No. 1 ring	.188 - .1955	.192 - .1995	
	No. 2 ring	.1905 - .198	.194 - .2015	
	No. 3 ring	.1905 - .198	.194 - .2015	
	No. 4 ring	None	None	

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

(a) Same with either Manual or "Dual Path" Transmission.

(b) Idle speed 575 in Neutral with Air Conditioning.

PRELIMINARY AMA Specifications — Passenger Car

Page 3

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (a) 7-18-62

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		
*4000	198	2 bbl.	8.8	135 @ 4600	205 @ 2400	Synchromesh	3.23
4000	215	4 bbl.	11.0	200 @ 5000	240 @ 3200	Synchromesh	3.23
4000	198	2 bbl.	8.8	135 @ 4600	205 @ 2400	Dual Path	3.08
4000	215	4 bbl.	11.0	200 @ 5000	240 @ 3200	Dual Path	3.08
*4100	215	2 bbl.	9.0	155 @ 4600	220 @ 2400	Synchromesh	3.23
4100	215	4 bbl.	11.0	200 @ 5000	240 @ 3200	Synchromesh	3.23
4100	198	2 bbl.	8.8	135 @ 4600	205 @ 2400	Synchromesh	3.23
4100	215	2 bbl.	9.0	155 @ 4600	220 @ 2400	Dual Path	3.08
4100	215	4 bbl.	11.0	200 @ 5000	240 @ 3200	Dual Path	3.08
4100	198	2 bbl.	8.8	135 @ 4600	205 @ 2400	Dual Path	3.08
*4300	215	4 bbl.	11.0	200 @ 5000	240 @ 3200	Synchromesh	3.23
4300	215	4 bbl.	11.0	200 @ 5000	240 @ 3200	Dual Path	3.36

*Standard Equipment

PRELIMINARY AMA Specifications - Passenger Car

Page 4

MAKE OF CAR	BUICK		MODEL YEAR	1963	DATE ISSUED	5-4-62	REVISED (a)	6-20-62
					Special			
MODEL		4000		4100		4300		

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.	Cast Iron Lubrited	#1 - C.I. Chrome-Plated #2 - C.I. Lubrited
	Width		.077 - .078
	Gap		.010 - .020
Oil	Description - material, type, coating, etc.	Steel Uncoated	Steel - Chrome-Plated
	Width	.180 - .186	.181 - .187
	Gap		.015 - .035
Expanders		(b)	Steel Oil Ring - Circumferential

ENGINE-PISTON PINS

Material		SAE - 1118 Steel
Length	2.960	2.870
Diameter		.8747 - .8750
Type	Locked in rod, in piston, floating, etc.	Pressed-in Rod
	Bushing	None
	In rod or piston	None
Clearance	In piston	.0003 - .005 @ 70°
	In rod	.0007 - .0015 (Press)
Direction & amount offset in piston	.040 (Hi-Thrust Side)	None

ENGINE-CONNECTING RODS

Material	Pearlitic Malleable Iron	Forged SAE-1141 Steel
Weight (oz.)	19.616	17.552
Length (center to center)	5.860	5.660
Bearing	Material & Type	Steel-Backed Duxrex 100A (Removable)
	Overall length	.737
	Clearance (limits)	.0002 - .0022
	End play	(a) .006 - .014

(a) Total for Both Rods.

(b) Steel Oil Ring (Hump-Type)

PRELIMINARY AMA Specifications—Passenger Car

Page 5

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED	(a)6-20-62
		Special					
MODEL	4000	4100	4300				

ENGINE—CRANKSHAFT

Material		Pearlitic Malleable Iron		
Vibration damper type		None	Rubber Absorption	
End thrust taken by bearing (No.)		Two	Three	
Crankshaft end play		.004 - .008		
Main bearing	Material & type		Steel-Backed - All Removable - Durex 100A	
	Clearance		.0005 - .0021	
	Journal dia. and bearing overall length	No. 1	2.2992 x .802	2.2992 x .802
		No. 2	2.2992 x .821	2.2992 x .802
		No. 3	2.2992 x .802	2.2992 x .821
		No. 4	2.2992 x .802	
		No. 5	None	2.2992 x .802
		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	Five
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		Sintered Iron
	Camshaft gear or sprocket material		Cast Iron
	Timing chain	No. of links	54
		Width	.875
		Pitch	.375

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Hydraulic
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 Pulley Hub Harmonic Balancer

(Continued)

PRELIMINARY AMA Specifications—Passenger Car

Page 6

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 5-4-62 REVISED (*) 6-20-62

MODEL	Special		
	4600	4100	4300

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	18	29
		Closes (°ABC)	82	71
		Duration - deg.	280	280
	Exhaust	Opens (°BBC)	62	67
		Closes (°ATC)	38	33
		Duration - deg.	280	280
	Valve opening overlap		56	62
Intake	Material		SAE-1041 Steel	
	Overall length		4.605	
	Actual overall head dia.		1.500	
	Angle of seat & face		45°	
	Seat insert material		None	Cast Iron
	Stem diameter		Tapered .3412 ± .0005 to .3407 ± .0005	
	Stem to guide clearance		.0005 to .0025 Top - .001 to .003 Bottom	
	Lift (@ zero lash)		.385	.383
	Outer spring press. and length	Valve closed (lb. @ in.)	64 @ 1.640	
		Valve open (lb. @ in.)	168 @ 1.260	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
Exhaust	Material		GM-N82152 - (21-4N)	
	Overall length		4.605	
	Actual overall head dia.		1.3125	
	Angle of seat & face		45°	
	Seat insert material		None	Cast Iron
	Stem diameter		Tapered .3407 ± .0005 to .3402 ± .0005	
	Stem to guide clearance		.001 to .003 Top - .0015 to .0035 Bottom	
	Lift (@ zero lash)		.385	.383
	Outer spring press. and length	Valve closed (lb. @ in.)	54 @ 1.640	
		Valve open (lb. @ in.)	168 @ 1.260	
	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

(Continued)

PRELIMINARY AMA Specifications — Passenger Car

Page 7

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (a)	6-4-62
		SPECIAL					
MODEL	4000	4100	4300				

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 Temp.</u>	<u>S.A.E. Viscosity</u>
	Above Freezing (+32°F)	S.A.E. 10W-30; 20W or 20
	Below Freezing (-32°F)	S.A.E. 5W-20
	Below Zero	S.A.E. 5W-20 or 5W
Engine Service Requirement (MM, MS, etc.)	"MS" - Which Passes Car Makers Test	

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.)	1.625 - .076	
Branch wall thickness	1.75 - .076	2.0 - .076
Main wall thickness	1.625 - .048	1.75 - .048

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System	
	Optional	None	
Control unit	Make and model		
	Location		
	Energy source (manifold vacuum, carburetor air stream, other)		
	Control method (variable orifice, fixed orifice, other)		
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		
	Air inlet (breather cap, carburetor air cleaner, other)		
	Flame arrestor (screen, check valve, other)		

PRELIMINARY
AMA Specifications— Passenger Car

Page 8

MAKE OF CAR <u>BUICK</u>	MODEL YEAR <u>1963</u>	DATE ISSUED <u>5-4-62</u>	REVISED (a) <u>6-20-62</u>
Special			
MODEL _____	4000	4100	4300

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.)	16	
	Filler location	Left Rear Quarter Panel	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Engine	
	Pressure range	4.0 - 5.50	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	(a)	(b)
	Locations	Carburetor	Tank
Carburetor	Choke type		
	Intake manifold heat control (exhaust or water)	Exhaust	Water
	Air clnr. type	Polyurethane	
		None	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
4000	198	Manual	Rochester	2GC	One	1.3125
4100	215	Manual	Rochester	2GC	One	1.3125
4300	215	Manual	Rochester	4GC	One	1.3125 (Pri.) 1.4375 (Sec.)

- (a) Sintered Metal
(b) Plastic Type in Tank
(c) Replaceable Pleated Paper Type.

PRELIMINARY
AMA Specifications – Passenger Car

Page 9

MAKE OF CAR	BUICK		MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (a)	6-20-62
					Special			
MODEL	4000		4100		4300			

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure		
Radiator cap relief valve pressure			15 P.S.I.		
Circulation thermostat	Type (choke, bypass)		Choke		
	Starts to open at (°F)		168°F		
Water pump	Type (centrifugal, other)		Centrifugal		
	GPM @ 1000 pump rpm				
	Number of pumps		One		
	Drive (V-belt, other)		"V" Belt		
	Bearing type		Double Row Integral Shaft		
By-pass recirculation type (internal, external)			External		
Radiator core type (cellular, tube and fin, other)			Tube and Center		
Cooling system capacity	With heater (qt.)		12	13.5	
	Without heater (qt.)		-----	-----	
	Opt. equipment-specify (qt.)		-----	-----	
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	One - Straight	
		Inside diameter	None		
Fan	Number of blades & Spacing		Four 76° x 104° (7 Blade Fan Used with A/C)		
	Diameter		17.12" (a) (d)		
	Ratio-fan to crankshaft rev.		.85 (b)		
	Fan cutout type		None (c)		
	Bearing type		Single Row Ball Brg.		
*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" Water Pump & A/C	"C"	

	198 Cu.In. Engine			215 Cu.In. Engine		
* Drive Belt Dimensions	A	B	C	A	B	C
Angle of V	38°	38°	38°	38°		
Nominal length (SAE)	42.48" Std. 41.46" A/C	36.76	58.24	43.60" Std. 41.74" A/C	43.60	38.00
Width	.38	.38	.45	.38	.38	.38

- (a) 18" with Air Conditioning (4100 - 4300)
 (b) 1.15 with Air Conditioning.
 (c) Eaton Thermal Clutch on Air Conditioning Installation.
 (d) 17" with Air Conditioning (4000)

PRELIMINARY AMA Specifications — Passenger Car

Page 10

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (a) 6-20-62

MODEL	Special		
	4000	4100	4300

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco 454 (a)	Delco 558 (b)
	Voltage Rtg. & Total Plates	12-54	12-66
	SAE Designation & Amp Hr. Rtg.	17M2-40 Amp. Hr.	25M-61 Amp. Hr.
	Location	Right Front Fender Skirt	
	Terminal grounded	Negative	
Generator	Make	Delco-Remy	
	Model	1100631	
	Type	Diode Rectified Alternator	
	Ratio—Gen. to Cr/s rev.	2.34	
	Gen. cut-in (hot)—engine rpm	12 Amps. at Idle	
Regulator	Make	Delco-Remy	
	Model	1119512	
	Type	Voltage Control	
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regu-lated	Voltage	13.6 to 14.4 at 125°F
		Current	None
	Voltage test con-ditions	Temperature	
		Load	Run 15 Min. at 10 Amps.
		Other	Battery Must Be In Circuit

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco Remy	
	Model	1108313	1107266
	Rotation (drive end view)	Clockwise	
	Engine cranking speed	Approx. 160 RPM	
	Test conditions	Engine at Operating Temp.	
	Lock test	Amps	Not Available
		Volts	Not Available
		Torque (lb. ft.)	Not Available
Motor control	No load test	Amps	70
		Volts	10.6
		RPM (min.)	6750
	Switch (solenoid, manual)	Solenoid	
	Starting procedure	Transmission in Neutral, depress clutch with manual transmission and in Neutral or Park with Dual Path - Depress and release accelerator to set choke, turn ignition key clockwise to engage starter - When engine fires, release key.	

(a) Wet Charge (Model 455 Dry Charge)

(b) Wet Charge (Model 559 Dry Charge)

(Continued)

PRELIMINARY AMA Specifications - Passenger Car

Page 11

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (a)	6-20-62
				Special			
MODEL	4000		4100		4300		

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with over-running clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	156
Flywheel tooth face width		.375	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy		
	Model		1115137	1115136	1115161
	Amps	Engine stopped	3.8 at 12.6 V		
		Engine idling	2.3 at 12.6 V		
Distributor	Make		Delco-Remy		
	Model		1110286	1110977	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	450-800		
		Intermediate points deg. @ rpm	13 - 17° at 2100		
		Max deg. @ rpm	28 @ 3900	28 @ 3700	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6 - 8		
		Intermediate points, deg @ in Hg	14° at 14		
		Max. deg. in. Hg.	17.5° at 16		
	Breaker gap (in.)		.013 - .019		
	Cam angle (deg.)		30° ± 1°		
	Breaker arm tension (oz.)		19 - 23		
	Timing	Crankshaft deg. @ rpm.		7.5 @ 1050	
Mark location		Crankshaft Flange	Harmonic Balancer		
Cylinder numbering system (see page 2)		Front to Rear Lt. 1-3-5; Rt. 2-4-6	Front to Rear	Lt. 1-3-5-7 Rt. 2-4-6-8	
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"	AC - "45FFS"	AC - "44FFS"
	Thread (mm)		14		
	Tightening torque (lb. ft.)		25-30	15-20 Lubrited	
	Gap		.030 - .035		
Cable	Conductor type		4000 ohms/ft - (Resistance Cable)		
	Insulation type		Neoprene		
	Spark plug protector		Neoprene Boot		

ELECTRICAL—SUPPRESSION

Locations & type	4000 ohms/ft - Spark Plug & Coil to Distributor Wires. Coil - .33 MFD Condenser Voltage Regulator - .50 MFD Condenser
------------------	---

PRELIMINARY AMA Specifications — Passenger Car

Page 12

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (a)	6-20-62
				Special			
MODEL	4000		4100		4300		

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	A.C.					
	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	Starting with switch in Full Counterclockwise Position. Accessory: (a) 1st Position Clockwise: "OFF" - Locked 2nd Position Clockwise: "OFF" - Unlocked 3rd Position Clockwise: "ON" - (b) 4th Position Clockwise: "START" (Spring return to "ON")					
	Provision for illumination	No					
	Location	Lower Control Panel - Right of Steering Column					
Main light-ing switch	Identify positions and lamps controlled	1st Position Out - Park and Tail Lights 2nd Position Out - Headlamps and Tail Lights Rotating Switch Knob fully counterclockwise turns Dome Light on and Instrument Light on Bright. Rotating Clockwise turns Dome Light "Off" and dims Instrument Lights. Fully Clockwise turns Instrument Lights "Off".					
	Locations and lamps controlled						
Other light switches	Stop Light	Hydraulic on Master Cylinder					
	Glove Comp't.	NA	Optional - In Glove Box			In Glove Box	
Other switches	Locations and de-vices controlled	Left Side of Steering Column					
	Direction Signal	Steering Column Between Instrument Panel and Dash (c)					
	Back-up Lights	Steering Column Between Instrument Panel and Dash					
	Neutral Safety Wiper	Lower Control Panel--Left Side					
Windshield wiper	Make	Delco Appliance					
	Type	Electric					
	Vacuum booster provision	None					
	Washer provision	Yes					
Horn	Type	Solenoid					
	Number used	One					Two
	Amp draw (each)	(Both) 7 to 11 AMP					

(a) Radio, Back-up Lights, Heater Blower, Air Conditioning Blower, Stop Lights, Direction Lights and Wiper.

(b) Ignition, Radio, Back-up Lights, Heater Blower, Air Conditioning Blower, Stop Lights, Direction Signal Light, Wiper, Gas Gage, Oil Pressure, Water Temperature and Charge Indicator Lights.

(c) On Transmission of 4-Speed Manual Assembly.

Form Rev. 3-62

PRELIMINARY AMA Specifications - Passenger Car

Page 13

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (*)	6-20-62
				Special			
MODEL	4000		4100				4300

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		2-4001, 2-4002, Dual Headlamps - Horizontal	
Headlamp beam indicator		158	
Parking		2-1034	
Tail		2-1034	
Stop		Same Bulb as Tail Light	
Direction signal	Front	Same Bulb as Parking Light	
	Rear	Same Bulb as Tail Light	
	Indicator	2-158	
License plate		67	
Instrument		4-158	
Ignition lock		None	
Back up		*2-1073	
Dome		1-211	
Clock		*1-57	
Radio		*1-1893	
Glove compartment		None	*1-1816 1-1816
Oil Press. Ind.		1-158	
Water Temp. Ind.		1-158	
Gen. Charge Ind.		1-158	
Heater Control			
Panel		1-53	
Ash Tray		None	*1-1445 1-1445
Trans. Range		*1-53	
Rear Courtesy		None	2-90

PRELIMINARY AMA Specifications - Passenger Car

Page 14

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (a)	6-20-62
				Special			
MODEL	4000		4100		4300		

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		9 SFE (b)	
Stop lamp		(c)	
Direction indicator		20 SFE (c)	
License plate lamp		(b)	
Instrument lamp		3 AGC (d)	
Ignition lamp		None	
Back up lamp		**9 SFE	
Dome lamp		(b)	
Clock		**2-AGA (e)	
Clock lamp		(d)	
Radio		**2.5 AGW	
Glove compartment lamp	None		** (e)
Blower, Heat, AC		**20 AGC	
Cigar Lighter		Special	
Windshield Wiper		25 AGC	
Ash Tray Lamp	None		(d)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	--
		Highest	23.5
	Stop		23.5
	Backup		23.5
	License, rear		18.5
	Directional	Front	20.9
		Rear	23.5
	Headlamp	Inside	25.9
		Outside*	25.9
Distance from C/L of car to center of bulb	Tail	Inside	27.1
		Outside	--
	Stop		27.1
	Backup		23.9
	License, rear		C/L
	Directional	Front	26.4
		Rear	27.1
	Headlamp	Inside	22.6
		Outside*	30.4

* If single headlamps are used enter here.

**Accessory at Extra Cost.

PRELIMINARY
AMA Specifications – Passenger Car

Page 15

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (•)	6-20-62
		Special					
MODEL	4000		4100				4300

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Dry
Type pressure plate springs		Coiled
Effective plate pressure (lb.)		1230
No. of clutch driven discs		One
Clutch facing	Material	Molded (c)
	Outside & inside dia.	9.5 x 6.0
	Total eff. area (sq.in.)	42.61
	Thickness	.125
	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 (a)
Manual with overdrive (std. or opt.)	Not Available
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		Three (a)
Transmission ratios	In first	2.571
	In second	1.550
	In third	1.000
	In fourth	None
	In reverse	3.489
Synchronous meshing, specify gears		2nd & 3rd
Shift lever location		Steering Column (b)
Lubricant	Capacity (pt.)	2.25
	Type recommended	A9 Mineral Oil
	SAE viscosity number	Summer
		SAE-90
		Winter
		SAE-90
		Extreme cold
		SAE-90

- (a) Three-speed transmission standard. Four-speed transmission available as optional equipment when V-8 engine-equipped.
- (b) Floor lever used with optional four-speed transmission.
- (c) Woven type used with four-speed transmission.

PRELIMINARY AMA Specifications — Passenger Car

Page 16

MAKE OF CAR BUICK	MODEL YEAR 1963	DATE ISSUED 1-25-62	REVISED (a) 6-20-62
		Special	
MODEL	4000	4100	4300

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		Not Available
	Manual lockout (yes, no)		None
	Downshift accelerator control (yes, no)		None
	Minimum cut-in speed		None
	Gear ratio		None
	Lu- bri- cant	Capacity (pt.) (Overdrive only)	None
		Separate filler (yes, no)	None
		Type recommended	None
		SAE viscosity number	None
		Summer	None
		Winter	None
		Ext. cold	None

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Dual Path Turbine Drive	
Type describe	Torque Converter and 2-Speed Gear Set	
Method of Selection (Lever, Push Button or other)	Lever	
Selector Pattern	P-N-D-L-R	
List gear ratios Selector Pattern and indicate which are used in each selector position	D - 3.8 overall ratio (at stall) 1.5 after shift, then 1 to 1. L - 3.8 overall ratio (at stall) R-3.8 overall ratio (at stall).	
Max. upshift speeds—drive range	67 mph	
Max. kickdown speeds—drive range	60 mph	
Torque converter	Number of elements	3
	Max. ratio at stall	2.50
	Type of cooling (air, water)	Air
Lubricant	Capacity—refill (pt.)	12
	Type recommended	(a)
Special transmission features	Torque is split after Drive Range upshift - 64% fluid and 36% mechanism.	

DRIVE UNITS—PROPELLER SHAFT

Number used		Two
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Manual transmission	Front 2.00 x 33.55 x .065 - Rear 2.00 x 36.88 x .065
	Overdrive transmission	Not Available
	Automatic transmission	Front 2.00 x 33.55 x .065 - Rear 2.00 x 36.88 x .065

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

(Continued)

Form Rev. 3-62

(a) Automatic transmission fluid type "A" Suffix A must be identified by
AQ-ATF number embossed in can or special Buick oil.

PRELIMINARY
AMA Specifications - Passenger Car

Page 17

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (•)	7-18-62
		Special					
MODEL		4000	4100	4300			

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter- mediate bearing	Type (plain, anti-friction)	Ball	
	Lubrication (fitting, prepack)	Packed for Life	
Universal joints	Make	Saginaw	
	Number used	Four	
	Type (ball and trunnion, cross, other)	Front and Rear - Single Cardan Cross Center - Double Cardan Cross	
	Bearing	Type (plain, anti-friction)	Anti-Friction
		Lubric. (fitting, prepack)	Packed for Life
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)	Hypoid - Semi-Floating		
Limited Slip differential, type			
Drive Pinion Offset	1.50		
No. of differential pinions	2 (b)		
Gear ratios (Std. equip.)	Manual transmission	3.23 (a)	
	Overdrive transmission	Not Available	
	Automatic transmission	3.08	3.36
Ring gear O.D. (std. ratio)	7.500		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Shim		
Wheel bearing type	Ball		
Lubricant	Capacity (pt.)	2.0	
	Type recommended	Hypoid Lubricant GM-4655M (90) (c)	
	SAE vis- cosity number	Summer	SAE-90 (GM-4655M)
		Winter	SAE-90 (GM-4655M)
		Extreme cold	SAE-90 (GM-4655M)

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio	3.36	
No. of teeth	Pinion	11
	Ring gear	37

- (a) Same with 3 or 4-speed manual transmission.
 (b) 4 on limited slip differential.
 (c) Limited slip differential uses SAE 90 Hypoid Lubricant BS 723.

PRELIMINARY AMA Specifications - Passenger Car

Page 18

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (*) 6-20-62

	Special		
MODEL	4000	4100	4300

DRIVE UNITS—WHEELS

Type & material		Disc - Steel
Rim (size and flange type)	Std.	13-4.50 "J"
	Opt.	15-4.50 "J" (a)
Attachment	Type (bolt or stud)	Stud
	Circle diameter	- 4.5
	Number and size	4-(.500-20)

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.50-13 (2 Ply)
	Type - Nylon, etc.	Rayon
Rev./mile at 50 mph.		
Inflation press.(cold)	Front	22 (b)
	Rear	22 (b)
Optional tires - size and ply		

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.)		Kelsey-Hayes - Air Suspended - Integral (c)
Effective area (sq. in.)*		123.77
Gross lining area (sq. in.)**		129.87
Swept drum area (sq. in.)***		223.84
Percent brake effectiveness—front		56.8
Drum	Diameter	Front 9.505/9.495
		Rear 9.505/9.495
	Type and material	Composite Cast Iron
Wheel cylinder bore	Front	1.00
	Rear	.875
Master cylinder bore		1.00
Available pedal travel		6.36
Line pressure at 100 lb. pedal load		725
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) Not available on 3-seat station wagon, convertible or Skylark.

(b) 26# on 4000-4100 station wagon rears. Add 2# on all series at ambient air 32°F or less

(c) Optional on all styles except when synchromesh 3 or 4-speed transmission is specified.

Not available on Series 4000 when V-6 engine is used in conjunction with air conditioner

PRELIMINARY AMA Specifications—Passenger Car

Page 19

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	1-25-62	REVISED (s)	6-20-62
		Special					
MODEL	4000	4100	4300				

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Primary - Molded Extruded	
		Size (length x width x thickness)	Front wheel	7.523 x 2 x .196 (Min.)
			Rear wheel	7.523 x 1.75 x .196 (Min.)
		Segments per shoe		One
	Rear Shoe	Material	Secondary - Molded Extruded	
		Size (length x width x thickness)	Front wheel	9.793 x 2 x .196 (Min.)
			Rear wheel	9.793 x 1.75 x .196 (Min.)
Segments per shoe		One		

BRAKES—PARKING

Type of control	Pull Type	
Location of control	Right Side of Steering Wheel	
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

Integral with Body

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	See Jacking Instruction Label	
Shock absorber front & rear	Type	Direct
	Make	Delco
	Piston dia.	1"
Other special features	None	

SUSPENSION—FRONT

Type and description	Coil Spring and Ball Joint
----------------------	----------------------------

* Air Suspension: Normal operating pressures
 Air spring type spring rates
 Compressor data leveling data
 type
 make
 drive ratio

(Continued)

PRELIMINARY
AMA Specifications – Passenger Cars

Page 20

MAKE OF CAR BUICK **MODEL YEAR** 1963 **DATE ISSUED** 4-27-62 **REVISED** ^(a) 6-20-62

		Special	
MODEL	<u>4000</u>	<u>4100</u>	<u>4300</u>

SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	SAE 926C Steel
	Size (coil design height & I.D.; bar length x dia.)	
	Spring rate (lb. per in.)	
	Rate at wheel (lb. per in.)	
	Design load (lb. @ design height)	
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	(c)

STEERING

Mechanical (std., opt., NA)				Standard		
Power (std., opt., NA)				(a) Optional		
Wheel diameter				(b) 17"	16"	
Turning diameter	Outside front	Wall to wall (l. & r.)		38.9		
		Curb to curb (l. & r.)		38.1		
	Inside rear	Wall to wall (l. & r.)		21.99		
		Curb to curb (l. & r.)		22.7		
Outside wheel angle with inside wheel at 20°				17°45'		
Mechanical	Gear	Type		Recirculating Ball Nut		
		Make		Saginaw		
		Ratios	Gear	22		
			Overall	26.2		
	No. wheel turns		5			
Power	Type (coaxial, linkage, etc.)		In Line-Rotary Valve			
	Make		Saginaw			
	Trade name		(a) Safety Power Steering			
	Gear	Type		Recirculating Ball Nut - Integral with Power Piston		
		Ratios	Gear	17.5		
			Overall	20.8		
	Pump driven by		Belt			
	Number wheel turns		4			
	Linkage	Type		Parallelogram		
		Location (front or rear of wheels, other)		Rear of Wheels		
Drag link (trans. or longit.)		Transverse				
Tie rods (one or two)		Two				

(Continued)

- (a) Available at extra cost.
 (b) 16" Deluxe wheel available at extra cost (included in Appearance Group Package).
 (c) Station wagons - SAE 1070 or 5150 (opt.) steel - .875 - All others SAE 1070 or 5150 (opt.) steel - .812.

PRELIMINARY
AMA Specifications — Passenger Car

Page 21

MAKE OF CAR	BUICK	MODEL YEAR	1963	DATE ISSUED	4-27-62	REVISED (a)	6-20-62
				Special			
MODEL		4000		4100		4300	

STEERING (cont)

Steering Axis	Inclination at camber (deg.)		7°30' at 0°15' Camber
	Bearings (type)	Upper	Ball Joint Suspension Used
		Lower	Ball Joint Suspension Used
		Thrust	Ball Joint Suspension Used
Wheel alignment (range and preferred)	Caster (deg.)		1/2° Neg. ± 1/2°
	Camber (deg.)		0° ± 3/8°
	Toe-in (outside tread-inches)		1/8" to 3/16"
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.2497
			1.2492
	Outer bearing		.7496
			.7491
	Thread size		5/8-24 N.E.F.
	Bearing type		Tapered Roller Bearing

SUSPENSION—REAR

Type and description			Coil Spring		
Drive and torq. taken through (see page 17)			Arms		
Spring	Type		Coil		
	Material		SAE 9260 Steel		
	Size (length x width, coil design height and I.D.; bar length & dia.)				
	Spring rate (lb. per in.)		163		
	Rate at wheel (lb. per in.)		95		
	Design load (lb. at design height)				
	Mounting insulation type		Molded Rubber		
	if leaf	No. of leaves		None	
		Inserts	Type and size	None	
			Material	None	
Shackle (comp. or tens.)		None			
Stabilizer	Type (link, linkless, frameless)		None		
	Material				
Track bar type			None		

PRELIMINARY
AMA Specifications — Passenger Car

Page 22

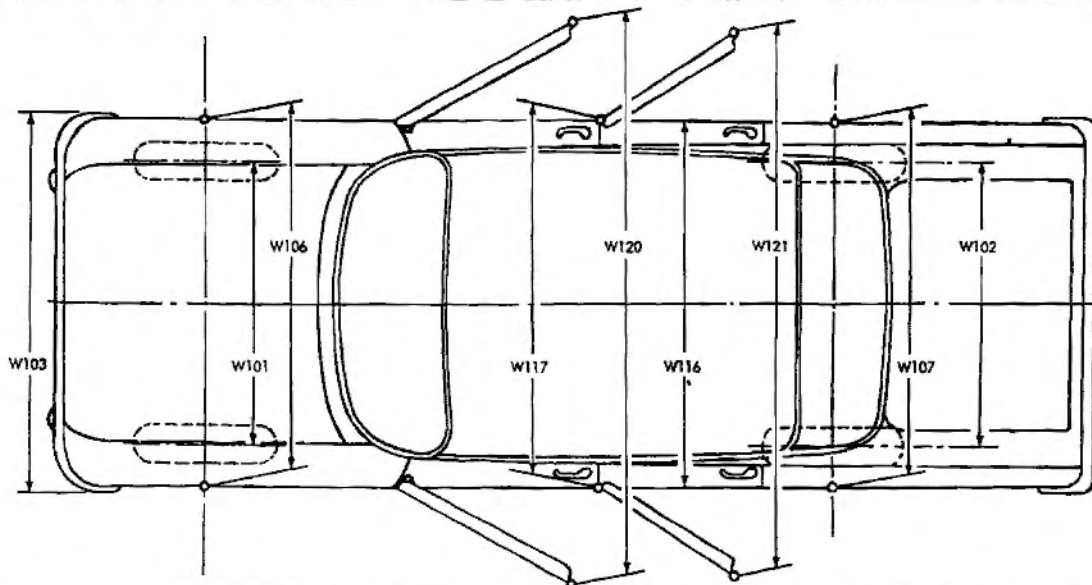
MAKE OF CAR BUICK **MODEL YEAR** 1963 **DATE ISSUED** 1-25-62 **REVISED** (a) 6-4-62

CAR AND BODY DIMENSIONS—GENERAL

NOTE: Included in the dimension definitions listed on pages 34-36 are those which have been adopted by SAE. These are indicated by a number following the type of dimension, e.g., L3. Additional dimensions have been added by the AMA Specifications Review Committee. These are shown by an additional letter, e.g., H67a. The symbol "a" has been added as a suffix to denote a dimension adopted by the AMA and submitted to the SAE for approval. The dimensions are developed from the following basic points:

1. Body dimensions are for all body styles.
2. All interior dimensions are taken with manikin 15.0 inches outboard of car centerline unless otherwise stated.
3. All interior dimensions are measured with the front seat in the lowest and rearmost position.
4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
5. The SAE manikin with 90th percentile leg length will be used for recording purposes.
6. The H Point is the pivot center of the manikin's torso and thigh.
7. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

EXTERIOR WIDTH DIMENSIONS



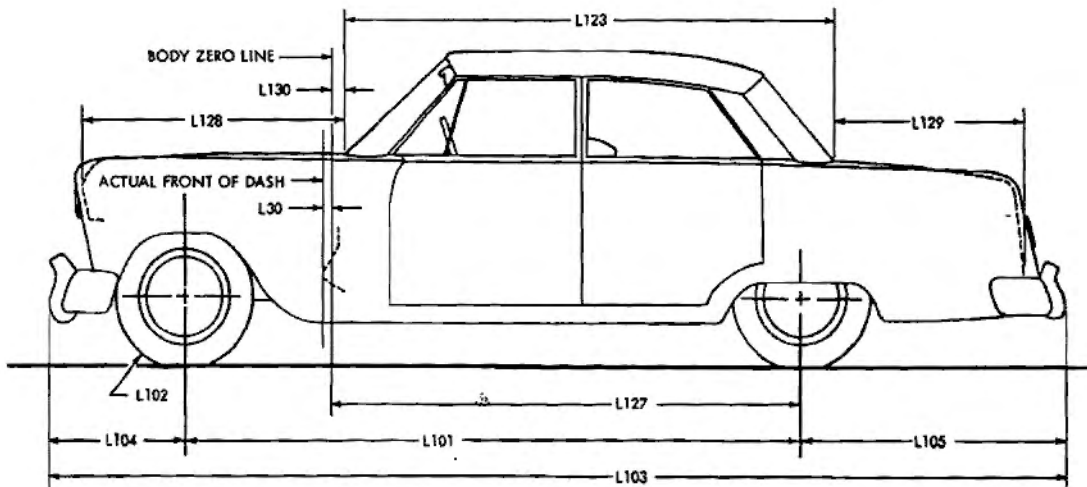
MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
Tread - front	W101		56.0	
Tread - rear	W102		56.0	
Maximum overall car width	W103		70.2	
Maximum overall body width	W116	70.7		70.1
Maximum body width at #2 pillar	W117	69.6		---
Front fender overall width	W106			
Rear fender overall width	W107			
Maximum overall car width - front doors open	W120a	135.7		152.6
Maximum overall car width - rear doors open	W121a			

PRELIMINARY
AMA Specifications – Passenger Car

Page 23

MAKE OF CAR BUICK **MODEL YEAR** 1963 **DATE ISSUED** 1-25-62 **REVISED(•)** 6-4-62

EXTERIOR LENGTH DIMENSIONS



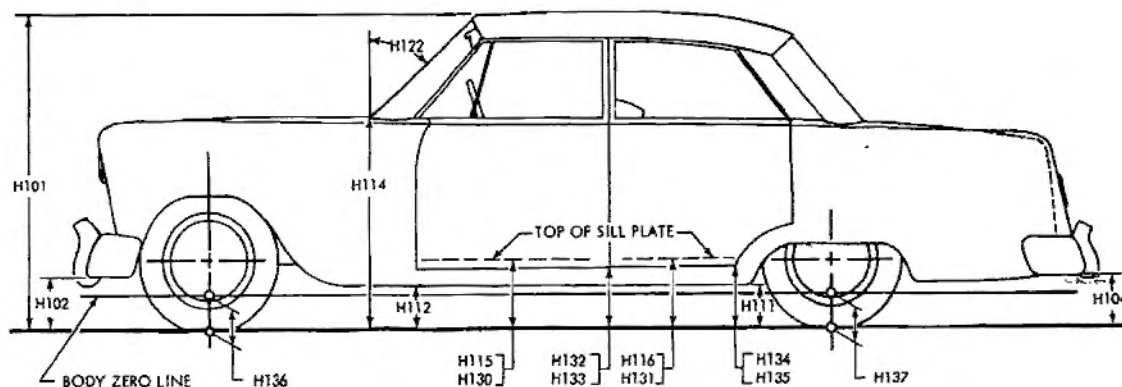
MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
Body zero line to actual front of dash	L30	0.00		
Wheelbase	L101	112.0		
Overhang - front	L104	31.0		
Overhang - rear	L105	49.1		
Overall length	L103	192.1		
Hood length at car centerline	L128a			
Body upper structure length at car centerline	L123	95.3	95.5	
Deck length at car centerline	L129a			
Body zero line to centerline of rear wheels	L127	99.1		
Body zero line to windshield cowl point	L130a			
Tire size	L102	6.50-13		

PRELIMINARY AMA Specifications— Passenger Car

Page 24

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (•) 6-4-62

EXTERIOR HEIGHT DIMENSIONS



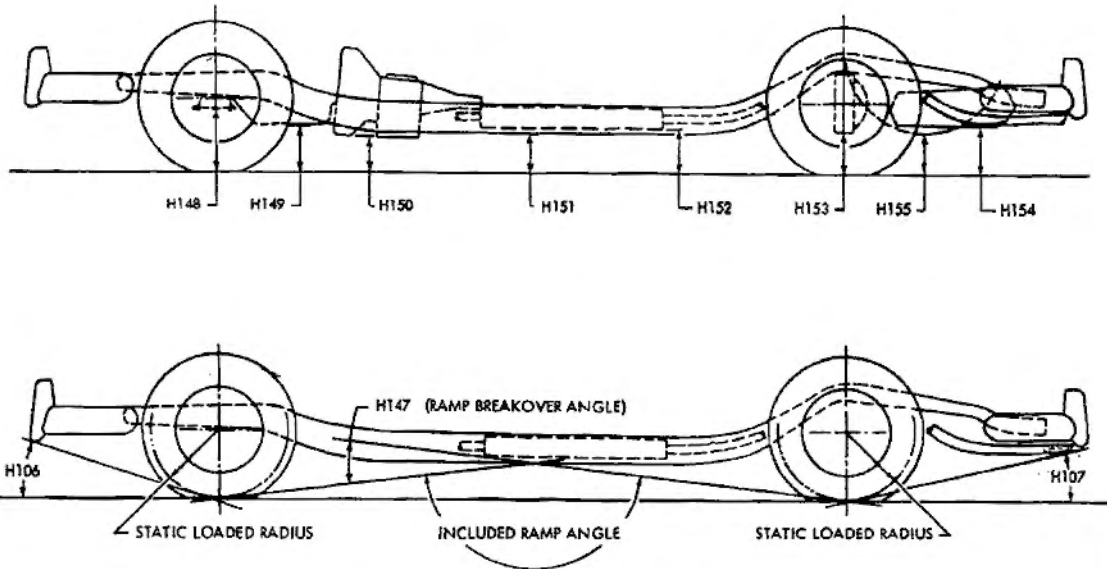
MODEL	Ref. No.	SPECIAL		SKYLARK
		4019	4119	4347
Overall height	H101	54.0		53.6
Hood at rear to ground	H114			
Rocker panel to ground - front	H112a			
Rocker panel to ground - rear	H111			
Step height - front (design load)	H115			
Step height - rear (design load)	H116			
Step height - front (curb load)	H130		15.6	
Step height - rear (curb load)	H131	28.9		----
Bottom of door to ground, open - front	H132			
Bottom of door to ground, closed - front	H133	11.4		11.3
Bottom of door to ground, open - rear	H134			
Bottom of door to ground, closed - rear	H135	11.3		----
Front bumper to ground	H102		12.3	
Rear bumper to ground	H104		12.3	
Windshield slope angle	H122		53.8	
Body zero to ground - front	H136a			
Body zero to ground - rear	H137a			

PRELIMINARY
AMA Specifications—Passenger Car

Page 25

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED(•) 6-4-62

GROUND CLEARANCE DIMENSIONS



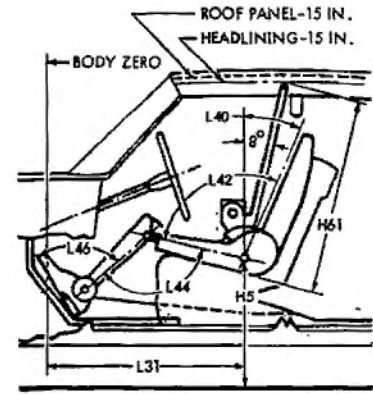
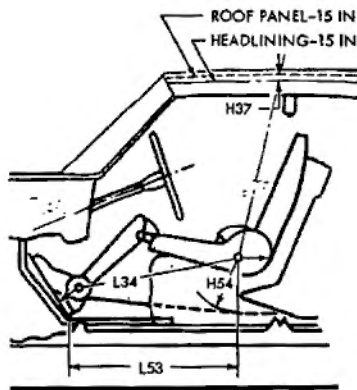
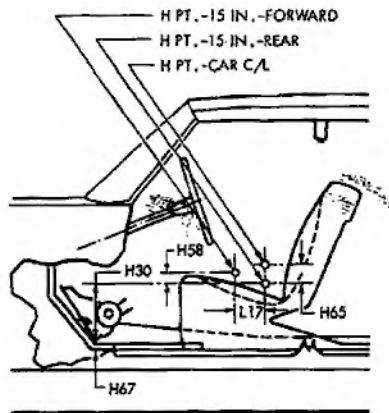
MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
Angle of approach	H106		26.6°	
Angle of departure	H107		16.5°	
Ramp breakover angle	H147		15°16'	
Front suspension to ground	H148			
Oil pan to ground	H149			
Flywheel housing to ground	H150		$\frac{1}{4}$	
Frame structure to ground	H151			
Exhaust system to ground	H152			
Rear axle differential to ground	H153		6.4	
Fuel tank to ground	H154			
Spare tire well to ground	H155			
Minimum running ground clearance	H156		5.84	

PRELIMINARY AMA Specifications—Passenger Car

Page 26

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (*)6-4-62

FRONT COMPARTMENT DIMENSIONS



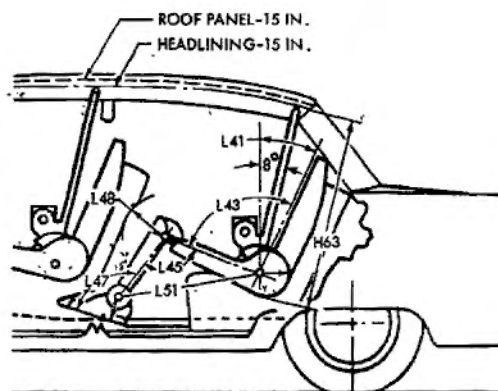
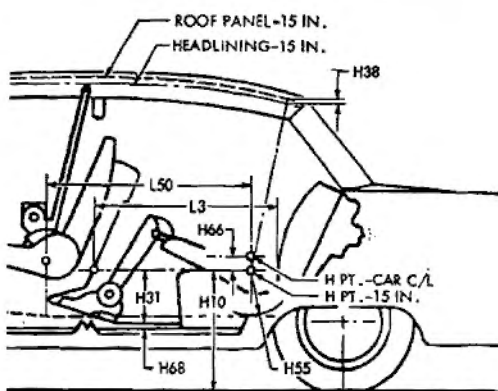
MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
H Point to body zero line	L31a	43.0		41.5
H Point to ground	H5a			
Effective head room	H61a			
Headlining to roof height	H37			
Maximum effective leg room - accelerator	L34a			
H Point to heel point	H30a			
Depressed floor covering thickness	H67a			
Back angle	L40a			
Hip angle	L42a			
Knee angle	L44a			
Foot angle	L46a			
H Point differential, side to center	H65a			
H Point to tunnel	H54a			
H Point to accelerator floor point	L53a			
H Point travel	L17a			
H Point rise	H58a			

PRELIMINARY AMA Specifications - Passenger Car

Page 27

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED(•) 6-4-62

REAR COMPARTMENT DIMENSIONS



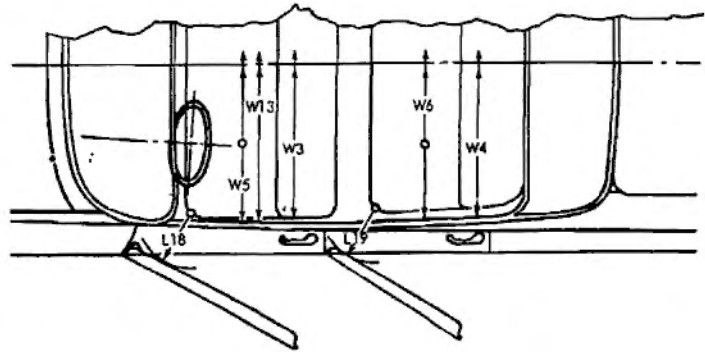
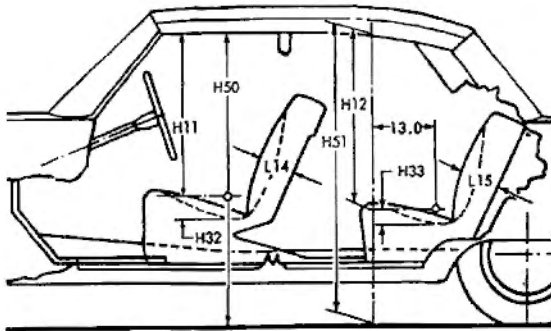
MODEL	Ref. No.	SPECIAL			SKYLARK
		4000	4100		
H Point couple distance	L50a				
H Point to ground	H10a				
Effective head room	H63a				
Headlining to roof height	H38				
Minimum effective leg room	L51a				
H Point to heel point	H31a				
Depressed floor covering thickness	H68a				
Minimum knee room	L48a				
Rear compartment room	L3	27.7	27.4		25.2
Back angle	L41a				
Hip angle	L43a				
Knee angle	L45a				
Foot angle	L47a				
H Point differential, side to center	H66a				
H Point to tunnel	H55a				

PRELIMINARY AMA Specifications – Passenger Car

Page 28

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED(•) 6-4-62

SEAT AND ENTRANCE DIMENSIONS



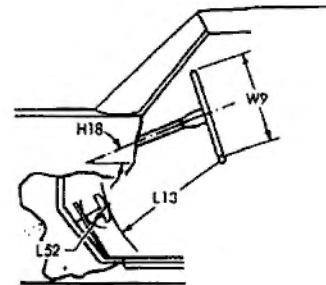
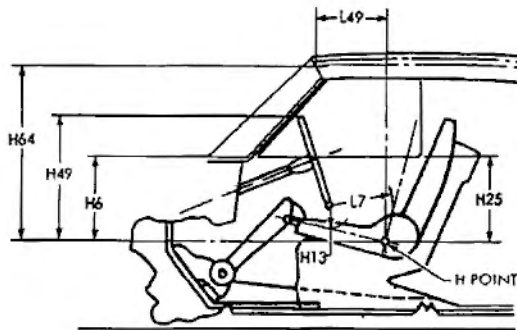
MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
Shoulder room - front	W3a	55.2		55.1
Hip room - front	W5a	58.7		58.4
Seat width - front	W16a			
Upper body opening to ground - front	H50a			
Entrance height - front	H11a	28.7		28.8
Entrance foot clearance - front	L18			
Seat cushion deflection - front	H32a			
Seat back thickness - front	L14			
Shoulder room - rear	W4a	53.5		53.1
Hip room - rear	W6a	58.3		51.6
Upper body opening to ground - rear	H51a			
Entrance height - rear	H12a	27.2	26.5	---
Entrance foot clearance - rear	L19			
Seat cushion deflection - rear	H33a			
Seat back thickness - rear	L15			

PRELIMINARY
AMA Specifications – Passenger Car

Page 29

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (a) 6-4-62

VISION AND CONTROL DIMENSIONS



MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
H Point to windshield bottom DLO	H6a			
H Point to windshield upper DLO	H64a			
H Point to windshield upper DLO	L49a			
Belt height - front	H25a			
Steering wheel center to centerline of car	W7		14.3	
Steering wheel maximum outside diameter	W9			
Steering column angle - horizontal	H18			
H Point to top of steering wheel	H49a			
Steering wheel torso clearance	L7a		16.0	
Steering wheel thigh clearance	H13a			
Brake pedal knee clearance	L13			
Brake pedal to accelerator	L52a			
Tumble-home	W122a			

PRELIMINARY
AMA Specifications – Passenger Car

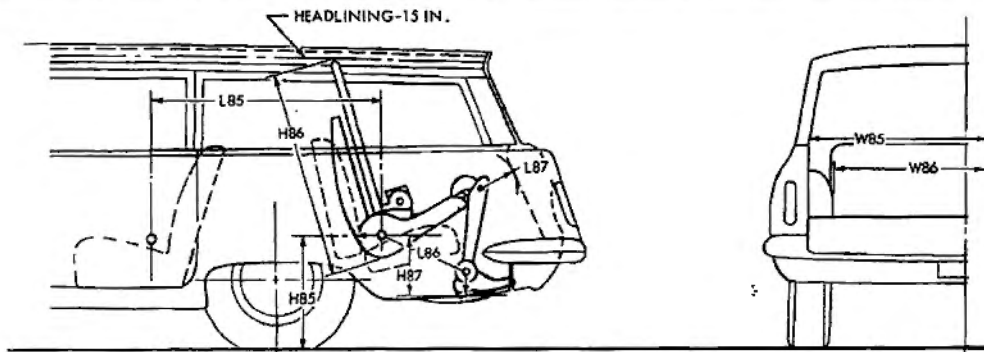
Page 30

MAKE OF CAR BUICK **MODEL YEAR** 1963 **DATE ISSUED** 1-25-62 **REVISED(*)** 6-4-62

LUGGAGE COMPARTMENT

MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
Usable luggage capacity (See instructions)		14.907		
Liftover height*	H301a			
Position of spare tire storage		Horizontal on Rear Compartment Floor		
Method of holding lid open		Torsion Bar (Spring-Loaded)		

THIRD SEAT DIMENSIONS



MODEL	Ref. No.	SPECIAL		SKYLARK	
		4000	4100	4300	
Seat facing direction		Rearward	Station Wagon not Available		
Shoulder room	W85a		"	"	"
Hip room	W86a		"	"	"
H Point couple distance	L85a		"	"	"
H Point to ground	H85a		"	"	"
Effective head room	H86a		"	"	"
Effective leg room	L86a		"	"	"
H Point to heel point	H87a		"	"	"
Knee room	L87a		"	"	"
Back angle	L88a		"	"	"
Hip angle	L89a		"	"	"
Knee angle	L90a		"	"	"
Foot angle	L91a		"	"	"

* Vertical dimension from luggage compartment lower opening to ground.

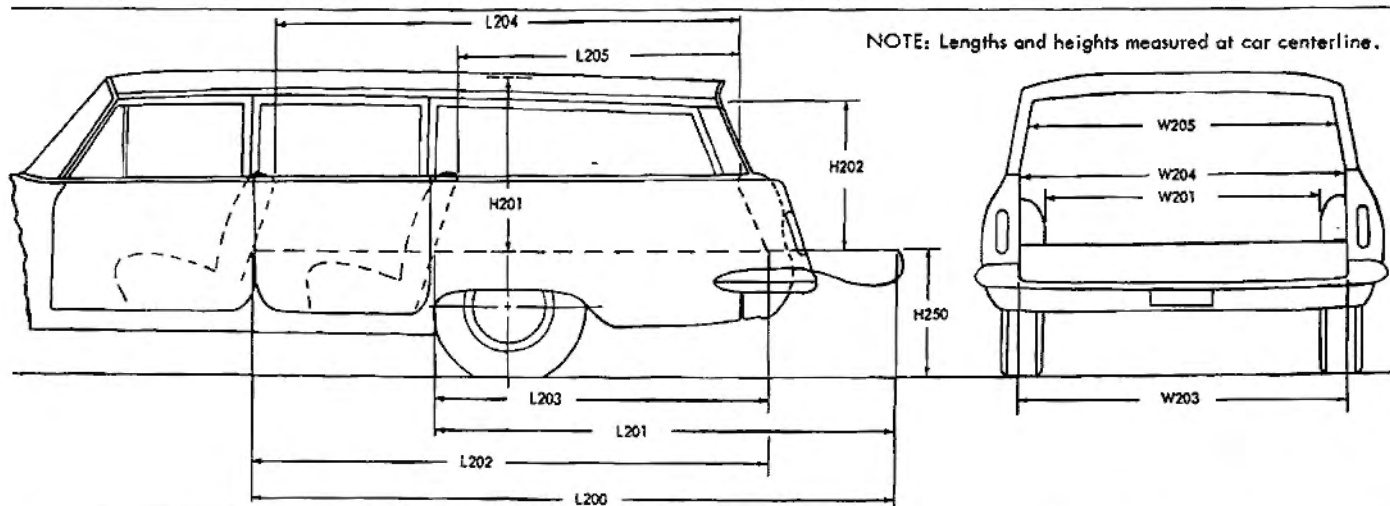
Form Rev. 3-62

PRELIMINARY AMA Specifications—Passenger Car

Page 31

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (a) 6-4-62

STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	SPECIAL		SKYLARK
		4000	4100	4300
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	25.7		Station Wagon Not Available
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	56.3		"
Floor length from back of front seat at floor level to inside of closed tail gate	L202	82.5		"
Floor length from back of second seat at floor level to inside of closed tail gate	L203	53.1		"
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	74.0		"
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	42.4		"
Maximum width of cargo space at floor - specify location	W200a	56.7		"
Minimum distance between wheel houses at floor level	W201	44.1		"
Rear end opening width at floor	W203	49.5		"
Rear end opening width at belt	W204	52.4		"
Maximum width of rear opening above belt	W205	51.9		"
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.8		"
Maximum height of rear opening - tail and lift gates open	H202	29.3		"
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250			
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)		One Piece - Hinged at Top		"
Cargo volume index (cu. ft.) W4 x L204 x H201 1728		72.02		"

PRELIMINARY
AMA Specifications — Passenger Car

Page 32

MAKE OF CAR BUICK MODEL YEAR 1963 DATE ISSUED 1-25-62 REVISED (a) 6-4-62

MODEL	SPECIAL		SKYLARK
	4000	4100	4300

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front	
	Rear doors	Front	----
Type of finish (lacquer, enamel, other)		Acrylic Lacquer	
Hood hinge location (front, rear)		Rear	
Hood counterbalanced (yes, no)		Yes	
Hood release control (internal, external)		External	
Vehicle (Serial) No. Location		On Front Body Hinge Pillar, Left Side and Boss on Right Cylinder Block Bank	
Engine No. Location		*	**
Theft protection - type		None	
Vent window control method (crank, friction pivot)	Front	Friction Pivot	
	Rear	None	
Seat cushion type	Front	Zigzag	
	Rear	"	
Seat back type	Front	"	
	Rear	"	
Windshield type (single curved, compound curved, other)		Compound Curved	
Rear window type (flat, curved, one piece, three piece)		Compound (One-Piece)	
Side glass type (curved, flat)		Flat	
Side glass exposed surface area		1322.1	1067.7
Windshield glass exposed surface area		1255.7	
Backlight glass exposed surface area		1081.0	751.7
Total glass exposed surface area		3658.8	3121.7

* Front Face of Left Cylinder Block Bank.

** On Boss On Right Cylinder Block Bank.

AMA Specifications – Passenger Car

Page 37

INDEX

SUBJECT	PAGE NO.	SUBJECT	PAGE NO.
Angles of Approach, Departure	25	Lamp Bulbs	13
Automatic Transmission	1, 16	Lamp Height & Spacing	14
Axle, Steering	21	Legroom	26, 27, 30
Axle, Rear	1, 17	Lengths - Overall	1, 23
		Lifters, Valve	5
Battery	10	Linings - Clutch, Brake	15, 19
Bearings, Engine	4, 5, 6	Lubrication	6, 7, 15, 16, 17
Belts - Fan, Generator, Water Pump	9	Motor, Starting	10
Body - General Information, types	Title, 1, 22, 32	Muffler	7
Exterior Dimensions	1, 22, 23, 24	Overdrive	16
Interior Dimensions	26, 27, 28, 29, 30	Piston Pins & Rings	2, 4
Clearance Dimensions	25	Pistons	2
Brakes - Parking, Service, Power	18, 19	Power Brakes	18
		Power Steering	20
Camber	21	Power Teams	3
Camshaft	5	Propeller Shaft, Universal Joints	16, 17
Capacities		Pumps - Oil, Fuel	7, 8
Cooling System	9	Water	9
Fuel Tank	8	Radiator, Hoses	9
Lubricants		Ramp Break-over Angle	25
Engine Crankcase	7	Ratios - Axle	1, 3, 17
Transmission and Overdrive	15, 16	Compression	1, 2, 3
Rear Axle	17	Steering	20
Carburetor	3, 8	Transmission	15, 16
Caster	21	Rear Axle	1, 3, 17
Choke, Automatic	8	Regulator - Generator	10
Circuit Breakers, Fuses	14	Rims	18
Clearance, Ground	25	Rings, Piston	4
Clutch - Pedal Operated	15	Rods - Connecting	4
Coil, Ignition	11		
Connecting Rods	4	Shock Absorbers, Front & Rear	19
Cooling System	9	Spark Plugs	11
Crankcase Ventilation	7	Speedometer	12
Crankshaft	5	Springs - Front & Rear Suspension	20, 21
Cylinders and Cylinder Head	2	Valve, Engine	6
		Stabilizer (Sway Bar) - Front & Rear	20, 21
Dimension Definitions	34, 35, 36	Starting Motor	10
Distributor - Ignition	11	Steering	20, 21
		Suppression - Ignition, Radio	11
Electrical System	10, 11, 12, 13, 14	Suspension - Front & Rear	19, 20, 21
Engine		Switches	12
Bore, Stroke, Displacement, Type	1, 2	Tailpipe	7
Compression Ratio	1, 2	Thermostat, Cooling	9
Firing Order, Cylinder Numbering	2, 11	Timing, Engine & Valve	5, 6, 11
General Information, H.P. & Torque	1, 2	Tires	1, 18
Lubrication	6, 7	Toe In	21
Power Teams	3	Torque Converter	16
Exhaust System	7	Torque - Engine, Rated	1, 2, 3
		Transmission - Types	1, 3, 8, 15, 16
Fan, Cooling	9	Automatic	1, 3, 8, 15, 16
Filters - Engine Oil, Fuel System	7, 8	Manual & Overdrive	1, 3, 8, 15, 16
Frame	19	Ratios	15, 16
Front Suspension	19, 20	Tread	1, 22
Fuel, Fuel Pump, Fuel System	1, 2, 8	Turning Diameter	20
Fuel Injection	1, 8		
Fuses, Circuit Breakers	14	Unfitted Construction	19
		Universal Joints, Propeller Shaft	16, 17
Generator and Regulator	10		
Glass	24, 32	Valves - Intake & Exhaust	5, 6
Height (Lamps)	14	Vibration Damper	5
Headroom - Body	26, 27, 30	Voltage Regulator	10
Heights - Overall	1, 24	Water Pump	9
Hood	23	Weights - Shipping, Curb	33
Horns	12	Wheel Alignment	21
Horsepower - Brake, Taxable	1, 2, 3	Wheelbase	1, 23
		Wheels & Tires	18
Ignition System	11	Wheel Spindle	21
Inflation - Tires	18	Widths - Car & Body	1, 22
Instruments	7, 12	Windshield	24, 32
Kingpin (Steering Axis)	21	Windshield Wiper	12