AMA Specifications – Passenger Car

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MANUFACTURER Buick Motor Division General Motors Corporation		CAR NAME BUICK	
MAILING ADDRESS 1051 E. Hamilton Avenue Flint 2, Michigan		MODEL YEAR 1963	ISSUED: 10-4-62 REVISED (•)

NOTES:

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

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BODY—TYPES AND STYLE NAMES—

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

Model	Body Style Riviera
4747	2-Door 4-Window Pillarless Coupe

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	SERIES 4700
Wheelbase (L101)		23	117.0
Tread	Front (W101)	22	60.0
	Rear (W102)	22	59.0
Maximum Overall Dimensions	Length (L103)	23	208.0
	Width (W103)	22	76.6
	Height (H101)	24	53.2
Transmission—(Specify trade name - opt., not available)	Manual	15	Not Available
	Overdrive	16	Not Available
	Automatic	16	Turbine Drive (Standard)
Axle ratio	Manual	17	Not Available
	Overdrive	17	Not Available
	Automatic	17	3.23
Tire size		18	7.10-15
Engine	Type, no. cyl., valve arr.	2	V-8 in Head
	Fuel system (Carb., other)	8	Carburetor
	Bore and stroke	2	4.1875 x 3.64
	Piston displ., cu.in.	2	401
	Std. compression ratio	2	10.25
	Max. bhp at engine rpm	2	325 @ 4400
	Max. torque at rpm	2	445 @ 2800

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ENGINE—GENERAL

Type, no. cyls., valve arr.		90° V-8 in Head
Bore and stroke (nominal)		4.1875 x 3.64
Piston displacement, cu. in.		401
Bore spacing (C/L to C/L)		4.750
No. system (front to rear)	L. Bank	2-4-6-8
	R. Bank	1-3-5-7
Firing order		1-2-7-8-4-5-6-3
Compres. ratio (nominal)		10.25
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		6°5'
Taxable horsepower $\frac{Dia.^2 \times No. Cyl.}{2.5}$		56.11
Published max. bhp* @ eng. RPM		325 @ 4400
Published max. torque* (lb. ft. @ RPM)		445 @ 2800
Recommended fuel regular - premium		Premium
Idle speed (spec. neutral or drive)	Manual	Not Available
	Automatic	(a) 525 (Neutral)

ENGINE—PISTONS

Material			Cast Aluminum Alloy
Description and finish			Cam Ground - Transverse Slot - Divorced Skirt
Weight (piston only) oz.			23.68
Clearance (limits)	Top land		.029 - .037
	Skirt	Top	.001 - .0016
		Bottom	.002 - .0036
Ring groove depth	No. 1 ring		.211 - .219
	No. 2 ring		.214 - .221
	No. 3 ring		.214 - .221
	No. 4 ring		None

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

(a) 575 in Neutral When Air Conditioning-Equipped.

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POWER TEAMS
(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
*4700	401	4 bbl.	10.25	325 @ 4400	445 @ 2800	Turbine Drive	3.23
4700	425	4 bbl.	10.25	340 @ 4400	465 @ 2800	Turbine Drive	3.23

*Standard Equipment

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, type, coating, etc.	Cast Iron Lubrited
	Width	.077 - .078
	Gap	.015 - .025
Oil	Description - material, type, coating, etc.	Steel Uncoated
	Width	.181 - .187
	Gap	.015 - .025
Expanders		Steel Oil Ring - Hump Type

ENGINE—PISTON PINS

Material			SAE-1118 Steel
Length			3.520
Diameter			.9994 - .9997
Type	Locked in rod, in piston, floating, etc.		Pressed in Rod
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston		.00005 - .0001 Select
	In rod		.00075 - .00125 (Press.)
Direction & amount offset in piston			None

ENGINE—CONNECTING RODS

Material		Forged SAE-1141 Steel
Weight (oz.)		24.384
Length (center to center)		6.220
Bearing	Material & Type	Steel Backed M/400 Aluminum -- Removable
	Overall length	.820
	Clearance (limits)	.0002 - .0023
	End play	(a) .005 - .012

(a) Total for Both Rods.

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ENGINE—CRANKSHAFT

Material			SAE 1145
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 First Four M/400 - Rear Durex 100A
	Clearance		.0005 - .0021
	Journal dia. and bearing overall length	No. 1	2.4985 X .940
		No. 2	2.4985 X .940
		No. 3	2.4985 X .891
		No. 4	2.4985 X .940
		No. 5	2.4985 X 1.200
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			2.2495

ENGINE—CAMSHAFT

Location			Above Crankshaft at Center of "Y"
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 on Cast Aluminum
	Timing chain	No. of links	52
		Width	.864
		Pitch	.500

ENGINE—VALVE SYSTEM

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

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	28
		Closes (°ABC)	87
		Duration - deg.	295
	Exhaust	Opens (°BBC)	76
		Closes (°ATC)	46
		Duration - deg.	302
	Valve opening overlap		74
"O" Intake	Material		SAE 1041 Steel
	Overall length		4.785
	Actual overall head dia.		1.875
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		Tapered - .3730 ± .0005 to .3720 ± .0005
	Stem to guide clearance		Top - .001 to .003 - Bottom - .002 to .004
	Lift (@ zero lash)		.431
	Outer spring press. and length	Valve closed (lb. @ in.)	46 @ 1.600
		Valve open (lb. @ in.)	101 @ 1.160
	Inner spring press. and length	Valve closed (lb. @ in.)	25.5 @ 1.690
		Valve open (lb. @ in.)	76 @ 1.250
"O" Exhaust	Material		GM-N82152 (21-4N)
	Overall length		4.785
	Actual overall head dia.		1.500
	Angle of seat & face		45°
	Seat insert material		None
	Stem diameter		Tapered .3725 ± .0005 to .3715 ± .0005
	Stem to guide clearance		Top .0015 to .0035 Bottom .0025 to .0045
	Lift (@ zero lash)		.431
	Outer spring press. and length	Valve closed (lb. @ in.)	46 @ 1.600
		Valve open (lb. @ in.)	101 @ 1.160
	Inner spring press. and length	Valve closed (lb. @ in.)	25.5 @ 1.690
		Valve open (lb. @ in.)	76 @ 1.250

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	Drip from Front Cam Bearing
	Cylinder walls	Splash & Nozzle

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	40 @ 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)	Anticipated Lowest Temp. — Use S.A.E. Viscosity Above +32°F. — 10W-30, 20W, or 20 Below +32°F. to Zero — 5W-20, or 10W Below Zero °F. — 5W-20, or 5W
Engine Service Requirement (MM, MS, etc.)	Passing Car Makers Test GM-4745M

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		One Rev. Flow and Separate Resonator
Exhaust pipe dia. (O.D., wall thickness)	Branch	Not Used
	Main	2.25 - .084 Laminated Tubing
Tail pipe diameter (O.D. & wall thickness)		2.0 - .084

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Induction System
		Optional	None
Control unit	Make and model		AC
	Location		Right Rocker Cover
	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
	Air inlet (breather cap, carburetor air cleaner, other)		Breather Cap
	Flame arrestor (screen, check valve, other)		Backfire Valve Integral with Flow Valve

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ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Capacity (gals.)		20
	Filler location		Behind Rear License Plate
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Engine
	Pressure range		5.25 - 6.50
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		(a) Plastic
	Locations		Engine Tank
Carburetor	Choke type		Integral Automatic
	Intake manifold heat control (exhaust or water)		Exhaust
	Air clnr. type	Standard	Polyurethane
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
4700	401	Turbine Drive	Carter	AFB	One	1.5625 (Pri.) 1.6875 (Sec.)
"o" 4700 (b)	425	Turbine Drive	Carter	AFB	One	1.5625 (Pri.) 1.6875 (Sec.)

Form Rev. 3-62

(a) Replaceable Pleated Paper Type.

(b) Optional Equipment Engine

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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)		180°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 Bearing
By-pass recirculation type (internal, external)			Internal
Radiator core type (cellular, tube and fin, other)			Tube and Center
Cooling system capacity	With heater (qt.)		18.5
	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	1.62
	Upper	Number and type (molded, straight)	One-Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & Spacing		Four-76°x104° (Five with A/C)
	Diameter		18.0 (20" with A/C)
	Ratio-fan to crankshaft rev.		.92 (1.30 with A/C)
	Fan cutout type		None (Eaton-Thermo Modulated with A/C)
	Bearing type		Single Row Ball Bearing
*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" Fan and Water Pump
	Air Conditioning		"C" Fan Generator & Water Pump (Matched Set)

* Drive Belt Dimensions	A	B	C
Angle of V	38°	38°	38°
Nominal length (SAE)	53.00	51.00	60.60
Width	.38	.47	(a) .38

(a) Four 76° x 104° (7-blade fan used with Air Conditioning).

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 570 (a)
	Voltage Rtg. & Total Plates		12-66
	SAE Designation & Amp Hr. Rtg		3SM-70 Amp. Hour
	Location		Left Front Fender Skirt
	Terminal grounded		Negative
Generator	Make		Delco-Remy
	Model		1100623 (b)
	Type		Diode Rectified Alternator
	Ratio—Gen. to Cr/s rev.		2.51 (c)
	Gen. cut-in (hot)—engine rpm		10 Amps Minimum at Idle (d)
Regulator	Make		Delco-Remy
	Model		1119512
	Type		Voltage Control
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.6 to 14.4 at 125°F.
		Current	None
	Voltage test conditions	Temperature	
		Load	Run 15 Min. at 10 Amps.
		Other	Battery Must Be In Circuit

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107221
	Rotation (drive end view)		Clockwise
	Engine cranking speed		160 RPM (Approximately)
	Test conditions		Engine at Operating Temp.
	Lock test	Amps	290-370
		Volts	2.0
		Torque (lb. ft.)	Not Available
	No load test	Amps	120
		Volts	10.6
		RPM (min.)	4700
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Transmission in Neutral or Park, depress and release accelerator to set choke, turn ignition key to extreme right to engage starter, release when engine fires.

(a) Wet Charge - Model 571 Dry Charge.

(Continued)

(b) 1100622 for Air-Conditioned Cars.

(c) 2.82 for Air-Conditioned Cars.

(d) 15 Amps Minimum at Idle for Air-Conditioned Cars.

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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	166
	Flywheel tooth face width		.375

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco-Remy
	Model		1115182
	Amps	Engine stopped	3.8 @ 12.6 Volts
		Engine idling	2.3 @ 12.6 Volts
Distributor	Make		Delco-Remy
	Model		1110993
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	550-900
		Intermediate points deg. @ rpm	0 to 4° @ 900
		Max deg. @ rpm	22° @ 3800
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	8-10
		Intermediate points, deg @ in Hg	5.5° @ 12
		Max. deg. in. Hg.	17.5° @ 18
	Breaker gap (in.)		.013 - .019
	Cam angle (deg.)		30° ± 1°
	Breaker arm tension (oz.)		19-23
Timing	Crankshaft deg. @ rpm.		12° BTC @ 400
	Mark location		Harmonic Balancer
	Cylinder numbering system (see page 2)		Left Bank 2-4-6-8 Right Bank 1-3-5-7
	Firing order (see page 2)		1-2-7-8-4-5-6-3
Spark Plug	Make and model		AC Type 44S
	Thread (mm)		14
	Tightening torque (lb. ft.)		25-30
	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 Wires and Coil to Distributor Wire Coil - .33 MFD Condenser Voltage Regulator - .50 MFD Condenser

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speedometer	Make	A.C.
	Trip odometer (yes, no)	Yes
Charge indicator—type		Indicator Light
Temperature indicator—type		Thermal Switch - "Hot" & "Cold" Indicator Lights
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	Yes
	Location	Lower Control Panel - Right of Steering Column
Main lighting 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".
Other light switches	Locations and lamps controlled	
	Courtesy	Switch-Center Panel Below Instrument Panel Roll
	Luggage Compt.	Mercury Switch in Lamp
	Glove Compt.	Mechanically-Operated by Door
	Parking Brake	On Parking Brake Release Bracket
	Stop Light	Hydraulic on Master Cylinder
Other switches	Locations and devices controlled	
	Direction Signal	Steering Column Between Instrument Panel and Dash
	Back-up Lights	Console
	Cornering Lamps	In Combination with Direction Signal Switch
Windshield wiper	Make	Delco Appliance
	Type	Electric
	Vacuum booster provision	None
	Washer provision	Yes
Horn	Type	Solenoid
	Number used	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 Signals, Wiper, Gas Gauge, Brake Warning, Oil Pressure, Water Temperature and Charge Indicator Lights.

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MODEL RIVIERA 4747

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		4-4001, 2-4002, Dual Headlamps - Horizontal
Headlamp beam indicator		158
Parking		2-1034A and 2-67A
Tail		2-1034
Stop		Same Bulb as Tail Light
Direction signal	Front	Same Bulb as Parking Light (1034A)
	Rear	Same Bulb as Tail Light
	Indicator	2-158
License plate		67
Instrument		7-161
Ignition lock		1-1445
Back up		2-1073
Dome		2-90
Clock		1-1816
Radio		*1-1881
Glove compartment		1-1816
Map		1-90
Brake Indicator		1-1816
Trans.Range		1-1816
Oil-Water (Hot & Cold) and Gen.Indic.		4-158
Instr.Panel Control Hsg.		2-57
Courtesy Light in Center Console		2-90, 1-68
Ash Tray		1-53
Cruise Control Switch		*1-53
Luggage Lamp		1-89
Spot Lamp		*1-4404
Cornering Lamp		*2-1195

*Extra Cost - All Series

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ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

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

Headlamp	15 CB (a)
Headlamp beam indicator	(a)
Parking lamp	(a)
Tail lamp	10 AGC (c)
Stop lamp	10 AGC (b)
Direction indicator	(b)
License plate lamp	(c)
Instrument lamp	3 AGC (d)
Ignition lamp	(d)
Back up lamp	10 AGC
Dome lamp	20 SFE (f)
Clock	2 AGA
Clock lamp	(d)
Radio	Special 7.5 SFE (Wonderbar) - Special 2.5 AGW (Sonomatic
Glove compartment lamp	5 AGC (e)
Courtesy Light	(e)
Trunk Light	(f)
Blower-Heat.AC	30 AGC
Cigar Lighter	Special
Antenna Motor	10 AGC
Windows-Seat-Top	40 CB
Safety Buzzer & Brake	5 AGC
Wiper	25 AGC
Ash Tray Light	(d)
Guidematic Amplifier	4 SFE

(See Footnotes)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	--
		Highest	24.1
	Stop		24.1
	Backup		19.5
	License, rear		23.1
	Directional	Front	14.7
		Rear	25.7
	Headlamp	Inside	25.2
		Outside*	25.1
Distance from C/L of car to center of bulb	Tail	Inside	--
		Outside	20.9
	Stop		20.9
	Backup		7.7
	License, rear		C/L
	Directionc	Front	31.9
		Rear	23.3
	Headlamp	Inside	15.7
		Outside*	22.8

* If single headlamps are used enter here.

Cornering Lamps (b)

Flasher AP273S

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Not Available
Type pressure plate springs		" "
Effective plate pressure (lb.)		" "
No. of clutch driven discs		" "
Clutch facing	Material	" "
	Outside & inside dia.	" "
	Total eff. area (sq.in.)	" "
	Thickness	" "
	Engagement cushioning method	" "
Release bearing	Type & method of lubrication	" "
Torsional damping	Methods: springs, friction material	" "

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Not Available
Manual with overdrive (std. or opt.)	" "
Automatic (std. or opt.)	" "

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			Not Available
Transmission ratios	In first		" "
	In second		" "
	In third		" "
	In fourth		" "
	In reverse		" "
Synchronous meshing, specify gears			" "
Shift lever location			" "
Lubricant	Capacity (pt.)		" "
	Type recommended		" "
	SAE viscosity number	Summer	" "
		Winter	" "
		Extreme cold	" "

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MODEL	SERIES
	4700

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

				4700
Overdrive	Type (planetary or other)			Not Available
	Manual lockout (yes, no)			" "
	Downshift acelerator 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	" "
			Ext. cold	" "

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Turbine Drive
Type describe		Torque Converter with Gears
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 - 1 x converter ratio L - 1.82 x converter ratio R - 1.82 x converter ratio
Max. upshift speeds—drive range		None
Max. kickdown speeds—drive range		None
Torque convertor	Number of elements	5
	Max. ratio at stall	3.4
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	24
	Type recommended	(a)
Special transmission features		Two-position stator blade changes to high or performance angle at full throttle position.

DRIVE UNITS—PROPELLER SHAFT

Number used		Two
Type (exposed, torque tube)		Exposed
Outer diameter x length* x wall thickness	Manual transmission	Not Available
	Overdrive transmission	Not Available
	Automatic transmission	Front - 2.250 x 31.35 x .095 Rear - 2.250 x 34.35 x .095

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

(Continued)

(a) Automatic Transmission Fluid Type "A". Suffix "A" must be identified by "AQ-ATF" embossed in can or special Buick oil.

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MODEL	SERIES
	4700

DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		Ball
	Lubrication (fitting, prepack)		Packed for Life
Universal joints	Make		Saginaw
	Number used		Three
	Type (ball and trunnion, cross, other)		Front Center & Rear - (Single 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)			Banjo-Live Type
Limited Slip differential, type			Positive Traction - Optional
Drive Pinion Offset			1.75
No. of differential pinions			(a) 2
Gear ratios (Std. equip.)	Manual transmission		Not Available
	Overdrive transmission		Not Available
	Automatic transmission		3.23
Ring gear O.D. (std. ratio)			9.375 - 9.375
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		4.5
	Type recommended		Hypoid GM 4655M (90)
	SAE viscosity number	Summer	SAE-90 (GM4655M)
		Winter	SAE-90 (GM4655M)
		Extreme cold	SAE-90 (GM4655M)

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.23
No. of teeth	Pinion	14
	Ring gear	42

(a) Four Used with Optional Positive Traction Differential.

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MODEL	SERIES
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DRIVE UNITS—WHEELS

Type & material		Disc - Steel
Rim (size and flange type)	Std.	15 - 5.50K
	Opt.	15-6.00L
Attachment	Type (bolt or stud)	Stud
	Circle diameter	5.00
	Number and size	Five (.500-20)

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	7.10-15 (2-Ply) with 4-Ply Rating
	Type - Nylon, etc.	Rayon
"O" Rev/mile at 50 mph.		752.0
Inflation press.(cold)	Front	24(a)
	Rear	24(a)
Optional tires - size and ply		7.60 x 15(4-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.)			Moraine Integral Unit
Effective area (sq. in.)*			156.90
Gross lining area (sq. in.)**			197.32
Swept drum area (sq. in.)***			320.49
Percent brake effectiveness—front			55.9
Drum	Diameter	Front	12.007/11.997
		Rear	12.007/11.997
	Type and material		(b)
Wheel cylinder bore	Front		1.125
	Rear		1.00
Master cylinder bore			1.00
Available pedal travel			3.55
Line pressure at 100 lb. pedal load			400# with 30# Pedal Load and 20" Hg.Vacuum
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) Add 2# at Ambient Air 32°F. or less.

(b) Fronts are aluminum body with cast iron liners - rears are 60 fin cast iron.

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MODEL	SERIES
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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Primary - Molded Extruded
		Size (length x width x thickness)	Front wheel	10.040 x 2.25 x .220
			Rear wheel	10.040 x 2.00 x .220
		Segments per shoe		One
	Rear Shoe	Material		Secondary - Molded Extruded
		Size (length x width x thickness)	Front wheel	12.959 x 2.25 x .220
			Rear wheel	12.759 x 2.00 x .220
		Segments per shoe		One

BRAKES—PARKING

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

FRAME or UNITIZED CONSTRUCTION

Type and description	Cruciform

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		Slot in Bumper Face Plates
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:
Air spring type
Compressor data
type
make
drive ratio
Normal operating pressures
spring rates
leveling data

(Continued)

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SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	SAE-9260 Steel
	Size (coil design height & I.D.; bar length x dia.	11.00 - 4.05 145.00 - .700
	Spring rate (lb. per in.)	380
	Rate at wheel (lb. per in.)	97
	Design load (lb. @ design height)	23.15
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE-1084 - .844

STEERING

Mechanical (std., opt., NA)				Not Available
Power (std., opt., NA)				Standard
Wheel diameter				16"
Turning diameter	Outside front	Wall to wall (l. & r.)		44.4
		Curb to curb (l. & r.)		43.6
	Inside rear	Wall to wall (l. & r.)		27.0
		Curb to curb (l. & r.)		27.8
Outside wheel angle with inside wheel at 20°				17°55'
Mechanical	Gear	Type		Not Available
		Make		
		Ratios	Gear	
			Overall	
	No. wheel turns			
Power	Type (coxial, linkage, etc.)			In Line - Rotary Valve
	Make			Saginaw
	Trade name			Safety Power Steering
	Gear	Type		Recirculating Ball Nut - Integral with Power Piston
		Ratios	Gear	17.5
			Overall	20.5
	Pump driven by			Belt
	Number wheel turns			3.5
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)

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MODEL	SERIES
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STEERING (cont)

Steering Axis	Inclination at camber (deg.)		$9^{\circ}52'$ @ $0^{\circ}50'$ 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° Pos. + or - $1/2^{\circ}$
	Camber (deg.)		$3/8^{\circ}$ + or - $3/8^{\circ}$
	Toe-in (outside tread-inches)		3/16" to 9/32
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.3748 1.3743
		Outer bearing	.8435 .8430
	Thread size		13/16 - 16 U.N.F.
	Bearing type		Taper 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.)			11.50-4.38 144.00 - .591
	Spring rate (lb. per in.)			160
	Rate at wheel (lb. per in.)			93
	Design load (lb. at design height)			1240
	Mounting insulation type			Laminated 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				Tubular Steel Mounted in Rubber

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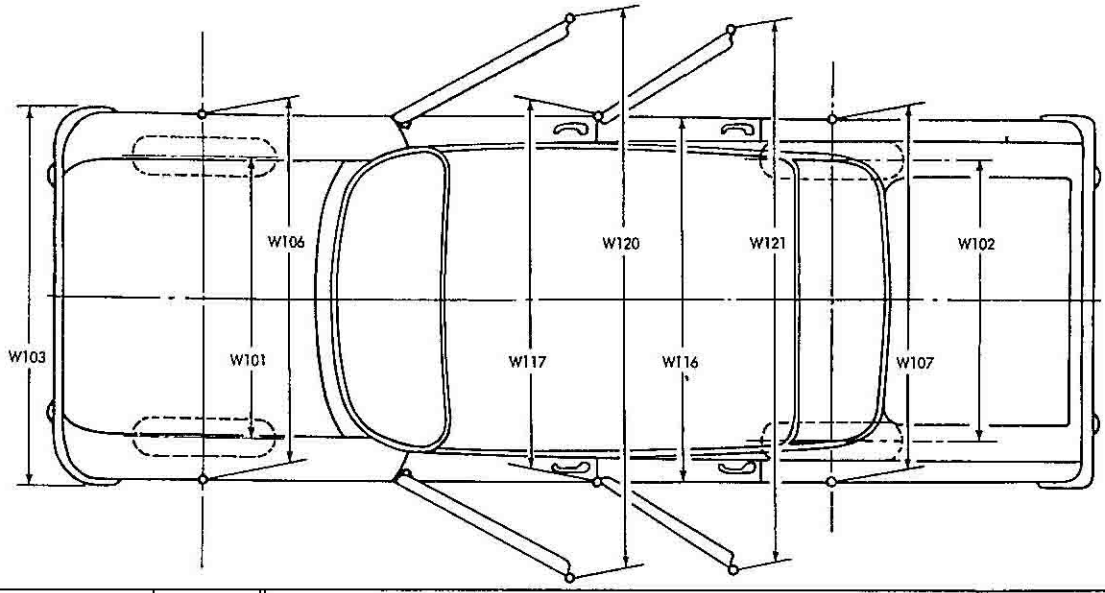
CAR AND BODY DIMENSIONS—GENERAL

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.	Riviera 4747
Tread – front	W101	60.0
Tread – rear	W102	59.0
Maximum overall car width	W103	76.6
Maximum overall body width	W116	75.5
Maximum body width at #2 pillar	W117	---
Front fender overall width	W106	76.6
Rear fender overall width	W107	75.2
Maximum overall car width – front doors open	W120a	155.2
Maximum overall car width – rear doors open	W121a	----

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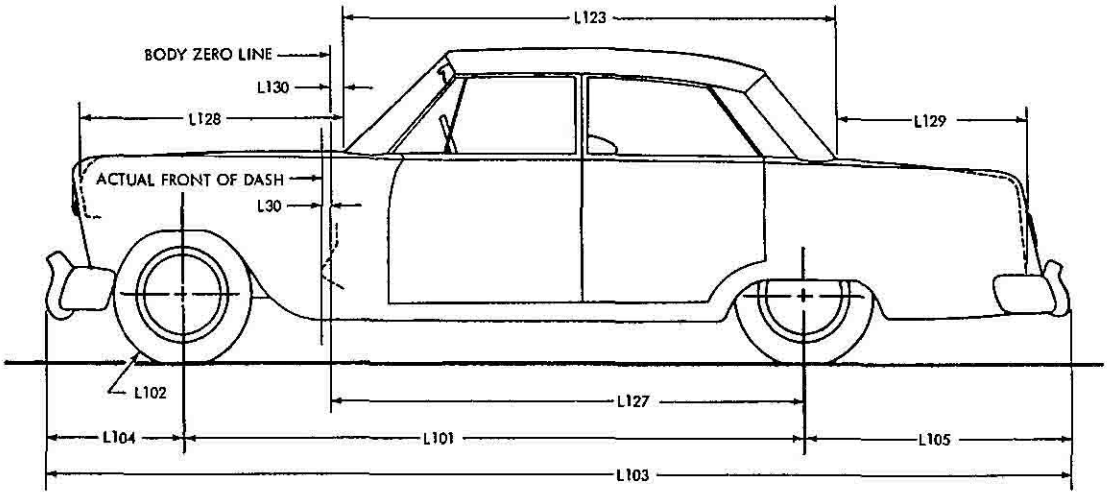
EXTERIOR LENGTH DIMENSIONS



MODEL	Ref. No.	Riviera 4747
Body zero line to actual front of dash	L30	0.0
Wheelbase	L101	117.0
Overhang – front	L104	36.7
Overhang – rear	L105	54.3
Overall length	L103	208.0
Hood length at car centerline	L128a	59.8
Body upper structure length at car centerline	L123	101.1
Deck length at car centerline	L129a	42.65
Body zero line to centerline of rear wheels	L127	99.0
Body zero line to windshield cowl point	L130a	6.91
Tire size	L102	7.10-15

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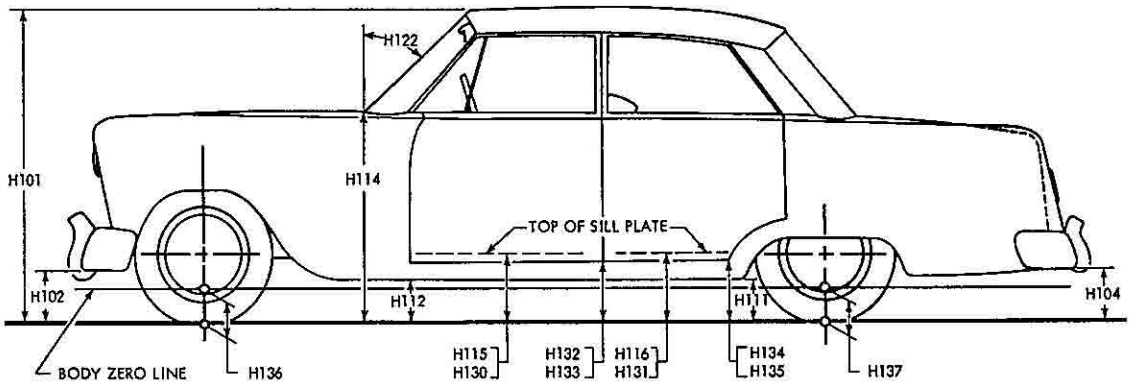
EXTERIOR HEIGHT DIMENSIONS



MODEL	Ref. No.	Riviera 4747
Overall height	H101	53.2
Hood at rear to ground	H114	36.92
Rocker panel to ground - front	H112a	8.74
Rocker panel to ground - rear	H111	7.53
Step height - front (design load)	H115	13.6
Step height - rear (design load)	H116	----
Step height - front (curb load)	H130	14.3
Step height - rear (curb load)	H131	14.2
Bottom of door to ground, open - front	H132	12.5
Bottom of door to ground, closed - front	H133	11.6
Bottom of door to ground, open - rear	H134	----
Bottom of door to ground, closed - rear	H135	----
Front bumper to ground	H102	11.1
Rear bumper to ground	H104	17.9
Windshield slope angle	H122	57.2
Body zero to ground - front	H136a	5.70
Body zero to ground - rear	H137a	5.70

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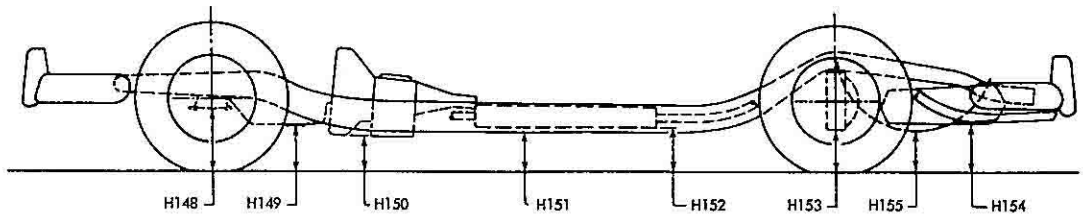
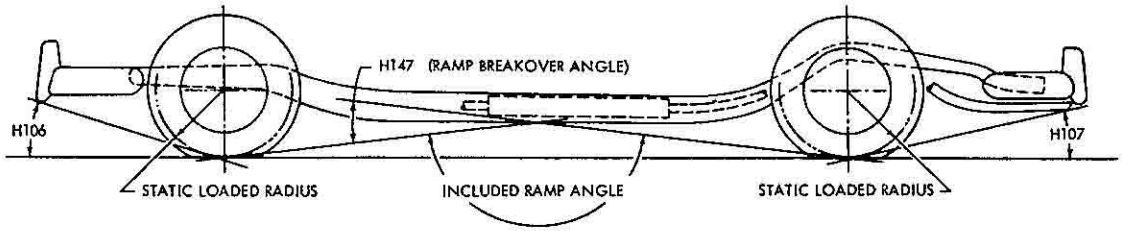
GROUND CLEARANCE DIMENSIONS





MODEL	Ref. No.	Riviera 4747
Angle of approach	H106	24.5°
Angle of departure	H107	15.75°
Ramp breakover angle	H147	12°
Front suspension to ground	H148	7.38
Oil pan to ground	H149	6.70
Flywheel housing to ground	H150	6.20
Frame structure to ground	H151	5.50
Exhaust system to ground	H152	5.58
Rear axle differential to ground	H153	7.23
Fuel tank to ground	H154	10.48
Spare tire well to ground	H155	No well used
Minimum running ground clearance	H156	*5.5

*Frame Center Plate

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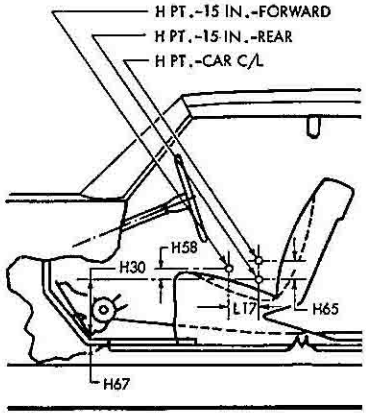
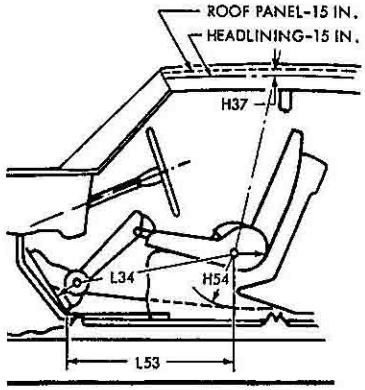
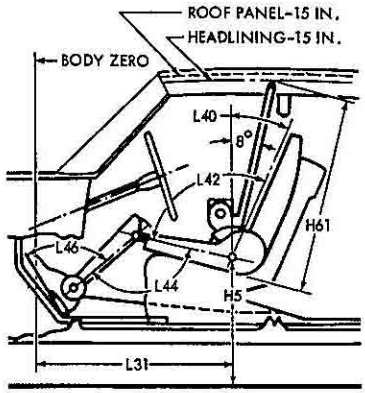
FRONT COMPARTMENT DIMENSIONS







MODEL	Ref. No.	Riviera 4747
H Point to body zero line	L31a	42.17
H Point to ground	H5a	18.8
Effective head room	H61a	37.6
Headlining to roof height	H37	0.6
Maximum effective leg room - accelerator	L34a	40.0
H Point to heel point	H30a	8.1
Depressed floor covering thickness	H67a	Not Available
Back angle	L40a	26.0°
Hip angle	L42a	97.0°
Knee angle	L44a	130.0°
Foot angle	L46a	120.0°
H Point differential, side to center	H65a	Bucket Seats Standard
H Point to tunnel	H54a	Bucket Seats Standard
H Point to accelerator floor point	L53a	33.1
H Point travel	L17a	4.8
H Point rise	H58a	0.6

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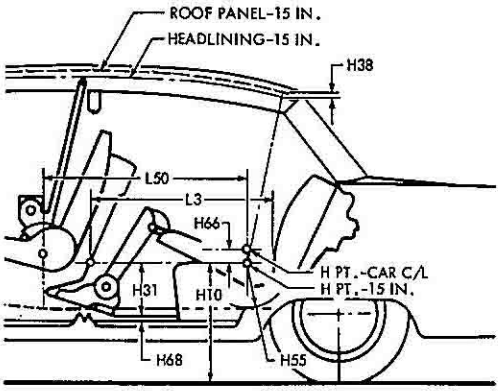
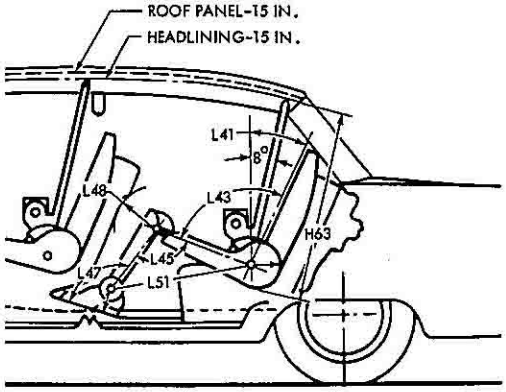
REAR COMPARTMENT DIMENSIONS





MODEL	Ref. No.	Riviera 4747
H Point couple distance	L50a	32.66
H Point to ground	H10a	17.7
Effective head room	H63a	37.5
Headlining to roof height	H38	0.5
Minimum effective leg room	L51a	35.2
H.Point to heel point	H31a	10.3
Depressed floor covering thickness	H68a	Not Available
Minimum knee room	L48a	3.5
Rear compartment room	L3	27.0
Back angle	L41a	23.0°
Hip angle	L43a	83.0°
Knee angle	L45a	93.0°
Foot angle	L47a	117.0°
H Point differential, side to center	H66a	Bucket Seats Standard
H Point to tunnel	H55a	Bucket Seats Standard

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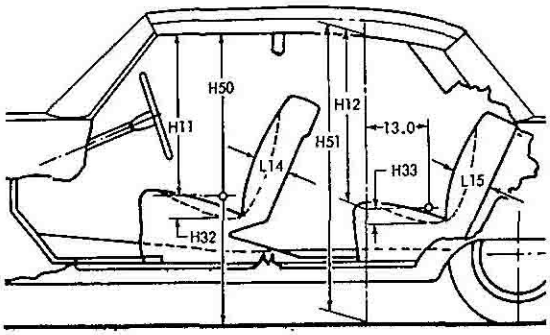
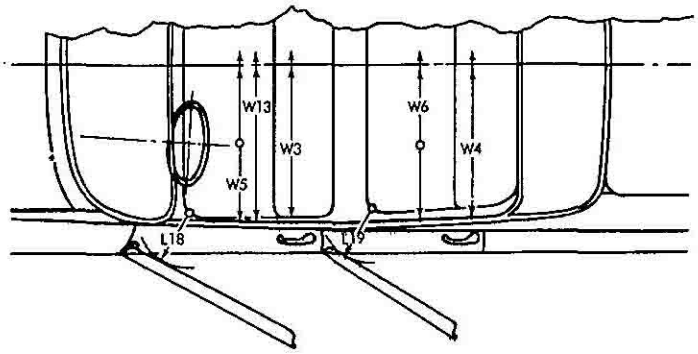
SEAT AND ENTRANCE DIMENSIONS





MODEL	Ref. No.	Riviera 4747
Shoulder room – front	W3a	56.3
Hip room – front	W5a	62.1
Seat width – front	W16a	Bucket Seats Used
Upper body opening to ground – front	H50a	49.2
Entrance height – front	H11a	30.3
Entrance foot clearance – front	L18	13.4
Seat cushion deflection – front	H32a	3.6
Seat back thickness – front	L14	6.4
Shoulder room – rear	W4a	55.8
Hip room – rear	W6a	53.8
Upper body opening to ground – rear	H51a	48.6
Entrance height – rear	H12a	30.9
Entrance foot clearance – rear	L19	10.0
Seat cushion deflection – rear	H33a	4.1
Seat back thickness – rear	L15	6.9

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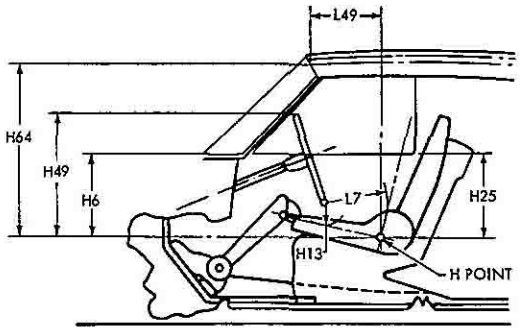
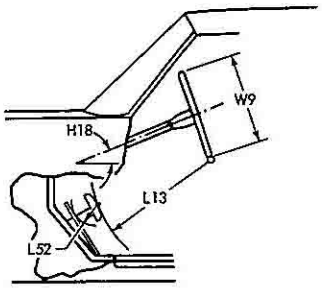
VISION AND CONTROL DIMENSIONS





MODEL	Ref. No.	Riviera 4747
H Point to windshield bottom DLO	H6a	18.2
H Point to windshield upper DLO	H64a	30.5
H Point to windshield upper DLO	L49a	12.0
Belt height - front	H25a	17.2
Steering wheel center to centerline of car	W7	15.3
Steering wheel maximum outside diameter	W9	16.0
Steering column angle - horizontal	H18	27.0
H Point to top of steering wheel	H49a	21.8
Steering wheel torso clearance	L7a	11.8
Steering wheel thigh clearance	H13a	4.0
Brake pedal knee clearance	L13	25.4
Brake pedal to accelerator	L52a	2.3
Tumble-home	W122a	20.1°

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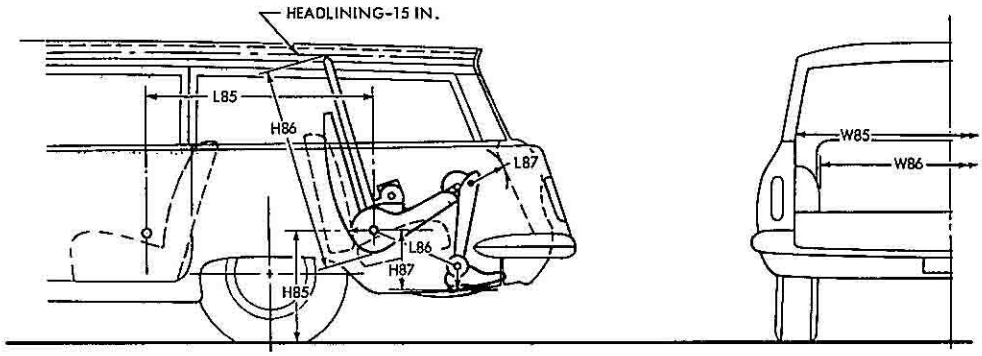
LUGGAGE COMPARTMENT

MODEL	Ref. No.	Riviera 4747
Usable luggage capacity (See instructions)		
Liftover height*	H301a	28.9
Position of spare tire storage		Horizontal
Method of holding lid open		Torsion Rods

THIRD SEAT DIMENSIONS



MODEL	Ref. No.	Riviera 4747
Seat facing direction		Estate 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.

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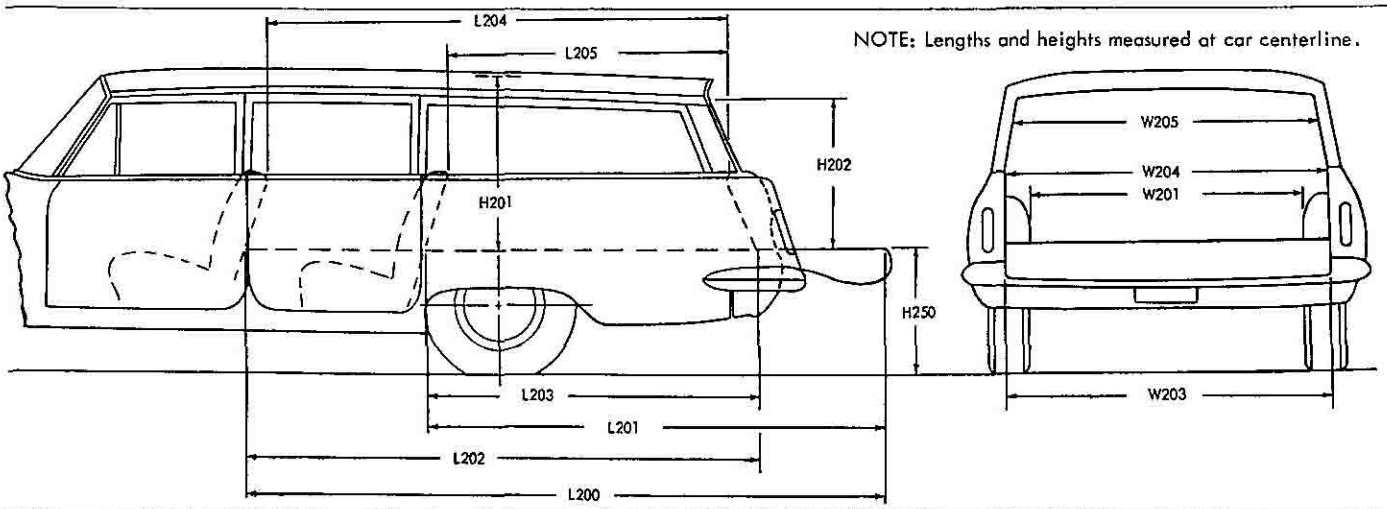
STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Lengths and heights measured at car centerline.

MODEL	Ref. No.	Riviera 4747
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	Estate Wagon Style Not Available
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	
Floor length from back of second seat at floor level to inside of closed tail gate	L203	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	
Maximum width of cargo space at floor - specify location	W200a	
Minimum distance between wheel houses at floor level	W201	
Rear end opening width at floor	W203	
Rear end opening width at belt	W204	
Maximum width of rear opening above belt	W205	
Maximum height - floor covering to headlining at centerline of rear axle	H201	
Maximum height of rear opening - tail and lift gates open	H202	
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)		
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$		

AMA Specifications – Passenger Car

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MODEL Riviera 4747

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	---
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		*
Engine No. Location		Top Face of Cylinder Block - Front
Theft protection - type		None
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat cushion type	Front	Zigzag
	Rear	Zigzag
Seat back type	Front	Zigzag
	Rear	Zigzag
Windshield type (single curved, compound curved, other)		Compound Curved
Rear window type (flat, curved, one piece, three piece)		Curved (One Piece)
Side glass type (curved, flat)		Flat
Side glass exposed surface area		1251.1
Windshield glass exposed surface area		1372.4
Backlight glass exposed surface area		753.9
Total glass exposed surface area		3377.4

*Stainless steel plate, located under the hood on left side of car and welded to the top surface of the body cowl, adjacent to the body number plate.

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MAJOR OPTIONAL ITEMS - WEIGHTS

	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
Model 4747	2257	1879	4136	51	49	21	79	4025

Accessories & Equipment Differential Weights				Remarks
Radio	6	4	10	
Power Seat - 4-Way	3	12	15	
Air Conditioner	100	-	100	
Positive Traction	0	10	10	
Power Windows	4	17	21	

* These are weights that are reported to states for licensing purposes.