

AMA Specifications – Passenger Car

MAKE OF CAR STUDEBAKER MODEL YEAR 1963 DATE ISSUED 5-1962 REVISED (11-30-62)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	63R	63R SUPERCHARGED	
Wheelbase (L101)	23	109"		
Tread	Front (W101)	57.375"		
	Rear (W102)	56.562"		
Maximum Overall Dimensions	Length (L103)	192.4375"		
	Width (W103)	70.375"		
	Height (H101)	53.875"		
Transmission— (Specify trade name - opt., not available)	Manual	15	Warner T86 - 3-Speed - Std. Warner 4-Speed - Opt.	
	Overdrive	16	N.A.	
	Automatic	16	High Performance - Optional	
Axle ratio	Manual	17	3.31 - With Std. 3-Speed 3.73 - With Opt. 4-Speed	
	Overdrive	17	N.A.	
	Automatic	17	3.31	
Tire size	18	6.70x15 - 4 Ply		
Engine	Type, no. cyl., valve arr.	2 V8 - Valve-In-Head		
	Fuel system (Carb., other)	8	Carburetor	
	Bore and stroke	2	3-9/16 x 3-5/8	
	Piston displ., cu.in.	2	289	
	Std. compression ratio	2	10.25:1	9.0:1
	Max. bhp at engine rpm	2	N.A.	
	Max. torque at rpm	2	N.A.	

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ENGINE—GENERAL

Type, no. cyls., valve arr.		V8 - Valve-In-Head	
Bore and stroke (nominal)		3-9/16 x 3-5/8	
Piston displacement, c.u. in.		289	
Bore spacing (C/L to C/L)		4.5"	
No. system (front to rear)	L. Bank	1-3-5-7	
	R. Bank	2-4-6-8	
Firing order		1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		10.25:1	9.0:1
Cylinder Head Material		Cast Iron	
Cylinder Block Material		Cast Iron	
Cylinder Sleeve—Wet, dry, none		None	
Number of mounting points	Front	2	
	Rear	1 (With Auto. Trans. - 2)	
Engine installation angle		5° - 49'	
Taxable horsepower	Dia. ² x No. Cyl. 2.5	40.6	
Published max. bhp* @ eng. RPM		N.A.	
Published max. torque* (lb. ft. @ RPM)		N.A.	
Recommended fuel regular - premium		Premium	
Idle speed (spec. neutral or drive)	Manual	650	
	Automatic	650	

ENGINE—PISTONS

Material			Aluminum - F-132		
Description and finish			Auto-Thermic - Tin-Plated		
Weight (piston only) oz.			16.6		
Clearance (limits)	Top land	.0225" - .0305"			
	Skirt	Top	Selective Fit		
		Bottom	Selective Fit		
Ring groove depth	No. 1 ring	.1845" - .1925"			
	No. 2 ring	.1845" - .1925"			
	No. 3 ring	.1845" - .1925"			
	No. 4 ring	---			

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

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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		
63R Not Supercharged	289	One 4 Bbl.	10.25	N.A.	N.A.	3-Speed Manual (Standard)	3.31, 3.07, 3.54, 3.73, 4.09
						4-Speed Manual (Optional)	3.73, 3.07, 3.31, 3.54, 4.09
						3-Speed Automatic (Optional)	3.31, 3.07, 3.54, 3.73, 4.09
63R Supercharged	289	One 4 Bbl.	9.0	N.A.	N.A.	4-Speed Manual (Standard)	3.73, 3.07, 3.31, 3.54, 4.09, 4.55
						3-Speed Automatic	3.73, 3.07, 3.31, 3.54, 4.09
63R Supercharged-R3	304.5	One 4 Bbl.	9.75	305 @ 5200	320 @ 4000	T-10C and T-10D 4-Speed Manual and Power-Shift Automatic	2.53, 2.76 2.87, 3.07 3.31, 3.54 3.73, 3.92 4.09, 4.27 4.55, 4.89 5.38
For other details of the 304.5 engine, refer to 'Studebaker Special Equipment Specifications' dated November 15, 1962.							

} All
Optional

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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.	---
Compression	Description - material, type, coating, etc.	Top-Cast Iron Chrome Plated 2nd - Cast Iron Granoseal
	Width	.078"
	Gap	Top - .010" - .015"; 2nd - .008" - .016"
Oil	Description - material, type, coating, etc.	Chrome Plated Steel Rail
	Width	.187"
	Gap	.015" - .055"
Expanders		Behind Oil Ring Only

ENGINE—PISTON PINS

Material	C. D. Steel - SAE 5120 (SAE 8620 Opt.)		
Length	2-7/8"		
Diameter	.875"		
Type	Locked in rod, in piston, floating, etc.	Clamped In Rod	
	Bushing	In rod or piston	None
		Material	---
Clearance	In piston	.0001" - .0003" - Selective Fit	
	In rod	None	
Direction & amount offset in piston	1/16" Toward Thrust Side		

ENGINE—CONNECTING RODS

Material	Special D. F. Steel C-1141	
Weight (oz.)	23.71 oz.	
Length (center to center)	6.625	
Bearing	Material & Type	Steel Back - Trimetal Aluminum (Steel Back - Trimetal Copper-Lead)
	Overall length	13/16"
	Clearance (limits)	.00025" - .00275"
	End play	.008" - .013"

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ENGINE—CRANKSHAFT

Material		D. F. Steel (SAE 1046) Type 07					
Vibration damper type		Rubber Mounted Inertia Member					
End thrust taken by bearing (No.)		#1					
Crankshaft end play		.003" - .006"					
Main bearing	Material & type		Front and Rear - Steel Back Babbitt Lined #2-3-4 - Steel Back Trimetal Aluminum *				
	Clearance		.0008" - .0033"				
	Journal dia. and bearing overall length	No. 1	2.500" - 1.309"				
		No. 2	2.500" - .906"				
		No. 3	2.500" .906"				
		No. 4	2.500" .906"				
		No. 5	2.500" 1.546"				
		No. 6	---				
No. 7		---					
Dir. & amt. cyl. offset		None					
Crankpin journal diameter		1.99925" - 2.00025"					

ENGINE—CAMSHAFT

Location		Cylinder Block - Center					
Material		Alloy - Cast Iron					
Bearings	Material		Steel Back - Babbitt Lined				
	Number		5				
Type of Drive	Gear or chain		Gear				
	Crankshaft gear or sprocket material		Cast Iron				
	Camshaft gear or sprocket material		Alcoa-Aluminum				
	Timing chain	No. of links		None			
		Width		---			
Pitch		---					

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		N.A.					
Valve rotator, type (intake, exhaust)		None					
Rocker ratio		1.5 to 1					
Operating tappet clearance (indicate hot or cold)	Intake	.023" - .025" - Hot					
		.025" - .027" - Cold					
	Exhaust	.023" - .025" - Hot					
		.025" - .027" - Cold					
Timing marks on flywheel, damper, other		Damper					

* Steel Back Type Trimetal Copper-Lead, Optional

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	17°	
		Closes (°ABC)	63°	
		Duration - deg.	260°	
	Exhaust	Opens (°BBC)	56°	
		Closes (°ATC)	24°	
		Duration - deg.	260°	
Valve opening overlap		41°		
Intake	Material		Sil. #1 Steel	
	Overall length		5-5/32"	
	Actual overall head dia.		1-21/32"	
	Angle of seat & face		45°	
	Seat insert material		None	
	Stem diameter		11/32"	
	Stem to guide clearance		.0015" - .0035"	
	Lift (@ zero lash)		.400"	
	Outer spring press. and length	Valve closed (lb. @ in.)	67-75 @ 2.031"	
		Valve open (lb. @ in.)	148-160 @ 1.631"	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		SAE 2112N (Stellite Faced)
		Overall length		5-5/32"
Actual overall head dia.		1-17/32"		
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		11/32"		
Stem to guide clearance		.0015" - .0035"		
Lift (@ zero lash)		.400"		
Outer spring press. and length		Valve closed (lb. @ in.)	67-75 @ 2.031"	
		Valve open (lb. @ in.)	148-160 @ 1.631"	
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	Full Pressure
	Connecting rods	Full Pressure
	Piston pins	Splash
	Camshaft bearings	Full Pressure
	Tappets	Full Pressure
	Timing gear or chain	Full Pressure
	Cylinder walls	Directed Jet

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear	
Normal oil pressure (lb. @ engine rpm)	30 @ 2000	
Oil pressure sending unit (elect. or mech.)	Mechanical	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, partial, other)	Full Flow	
Filter replacement (element, complete)	Complete	
Capacity of crankcase, less filter-refill (qt.)	5	
Oil grade recommended (SAE viscosity and temperature range)	+32° - SAE 30	-10° - SAE 10W
	+10° - SAE 20	Below -10° - SAE 5W
Engine Service Requirement (MM, MS, etc.)	MS Alone or in Combination With MM, ML, DG	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Dual	
Muffler No. & type (reverse flow, straight thru, separate resonator)	2 - Straight-Thru - Glass Wool Pack Opt. Reverse Flow Muffler and Tuned Resonator	
Exhaust pipe dia. (O.D. & wall thickness)	Branch	---
	Main	2"
Tail pipe diameter (O.D. & wall thickness)	2"	

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	---
Control unit	Make and model	Studebaker
	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)	Intake Manifold and Carburetor Air Intake
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap
	Flame arrestor (screen, check valve, other)	Check 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	Carburetor Supercharged
Fuel Tank	Capacity (gals.)	21	
	Filler location	Left Side - Rear Quarter Panel	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Left Front of Engine	
	Pressure range	5-1/2 -7 PSI @ 1000 RPM	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Pleated Paper	
	Locations	In Line Between Pump and Carburetor	
Carburetor	Choke type	Automatic	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air clnr. type	Standard	Plasticized Paper
Optional		None	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
63R	289	3 & 4-Speed Manual and Automatic	Carter	AFB-3506S	One Down Draft	1-7/16-Pri. 1-11/16-Sec.
63R Supercharged	289	4-Speed and Automatic	Carter	AFB-3507S	One Down Draft	1-7/16-Pri. 1-11/16-Sec.

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure - Atmospheric Vented	
Radiator cap relief valve pressure		12-15 PSI	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (°F)	170°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm	---	
	Number of pumps	1	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Sealed Double Row Ball	
By-pass recirculation type (internal, external)		Internal	
Radiator core type (cellular, tube and fin, other)		Cellular - Tubular - Cross-Flow	
Cooling system capacity	With heater (qt.)	18	
	Without heater (qt.)	17	
	Opt. equipment-specify (qt.)	None	
Water jackets full length of cylinder (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	One - Moulded
		Inside diameter	1-3/4"
	Upper	Number and type (molded, straight)	One - Moulded
		Inside diameter	1-3/4"
	By-pass	Number and type (molded, straight)	None
		Inside diameter	---
Fan	Number of blades & Spacing		5 Blades (65° - 65° - 92° - 46° - 92°)
	Diameter		17
	Ratio-fan to crankshaft rev.		1.20
	Fan cutout type		2500 (Viscous Drive)
	Bearing type		Double Row - Ball
*Drive belts (indicate belt used by letter)	Fan	A	D
	Generator	A	D
	Water Pump	A	D
	Power Steering	B	B
	Air Conditioning	C	-
	Supercharger	-	E

* Drive Belt Dimensions	A	B	C	D	E
Angle of V	38°	38°	38°	38°	38°
Nominal length (SAE)	43-1/2"	37-1/2"	49"	42-3/4"	54-1/2"
Width	15/32"	15/32"	1/2"	15/32"	15/32"

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Willard - HDD-3EE		
	Voltage Rtg. & Total Plates	12V		
	SAE Designation & Amp Hr. Rtg	60 Amp Hr.		
	Location	Under Hood - Left Fender		
	Terminal grounded	Negative		
Alter-nator	Make	Electric Auto-Lite Co.		
	Model	ALE 5003		
	Type	DC - Diode Rectification		
	Ratio—Gen. to Cr/s rev.	2.452		
	Gen. cut-in (hot)—engine rpm	900 Alternator RPM		
Regulator	Make	Electric Auto-Lite Co.		
	Model	VBV 6221A		
	Type	Vibrating		
	Cutout relay	Closing voltage @ generator rpm	N.A.	
		Reverse current to open	None	
	Regu-lated	Voltage	14.0-14.4 Upper Contacts	
		Current	None	
	Voltage test con-ditions	Temperature	70°	
		Load	10 Amps	
Other		20 Min. @ 2000 Alternator RPM		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Electric Auto-Lite Co.		
	Model	MDU-7025-Std. Trans. - MDU-7026-Auto. Trans.		
	Rotation (drive end view)	Clockwise		
	Engine cranking speed	160		
	Test conditions	Normal Engine Operating Temperature		
	Lock test	Amps	435	
		Volts	60	
		Torque (lb. ft.)	11	
	No load test	Amps	55	
		Volts	10	
RPM (min.)		5200		
Motor control	Switch (solenoid, manual)	Solenoid		
	Starting procedure	<ol style="list-style-type: none"> 1. Rotate Ignition Key Clockwise to Starting Position. 2. When Engine Starts, Permit Key to Return to Ignition "ON" position. 		

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type	Bendix - Folo-Thru	
	Pinion meshes (front, rear)	Front	
	Number of teeth	Pinion	9
		Flywheel	162
	Flywheel tooth face width	.375"	

ELECTRICAL—IGNITION SYSTEM

Coil	Make	Electric Auto-Lite Co.		
	Model	200567		
	Amps	Engine stopped	N.A.	
Engine idling		4		
Distributor	Make	Electric Auto-Lite - Dual Breaker		
	Model	IBS-4012	IBS-4012A	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	730 - 870	530 - 660
		Intermediate points deg. @ rpm	14° - 18° @ 1350	10° @ 960
		Max deg. @ rpm	22° @ 2000	20° @ 1200
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	7" - 9" Hg	
		Intermediate points, deg @ in Hg	7° - 12° @ 11" Hg	
		Max. deg. in. Hg.	18° @ 13" Hg	
	Breaker gap (in.)	.011" - .016"		
	Cam angle (deg.)	39° ± 3°		
Breaker arm tension (oz.)	21 - 35 oz.			
Timing	Crankshaft deg. @ rpm. BTC	4° @ 650	6° @ 650	
	Mark location	On Damper Flywheel		
	Cylinder numbering system (see page 2)	Left Bank - 1-3-5-7; Right Bank - 2-4-6-8		
	Firing order (see page 2)	1-8-4-3-6-5-7-2		
Spark Plug	Make and model	Champion J-12Y Std.; J-9Y Opt.		
	Thread (mm)	14		
	Tightening torque (lb. ft.)	25 - 30		
	Gap	.033" - .038"		
Cable	Conductor type	Radio Suppression - 5000 OHMS Per Foot Nominal		
	Insulation type	Neoprene		
	Spark plug protector	Applied or Molded Terminal Cover		

ELECTRICAL—SUPPRESSION

Locations & type	<p>.5 MFD Condensers at Ignition Coil, Alternator Armature and Voltage Regulator, with Radio Only</p> <p>10,000 OHM - In Distributor Rotor - Ground at Oil Pipe</p>
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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	Stewart Warner
	Trip odometer (yes, no)	No
Charge indicator—type		Ammeter
Temperature indicator—type		Thermal
Oil pressure indicator—type		Hydro Static
Fuel indicator—type		Thermal
Other		-
Ignition switch	Identify positions in order and circuits controlled	Center - Off 1st Pos. Right - All Circuits Except Starter 2nd Pos. Right - All Circuits 'Off' Except Ignition and Starter 1st Pos. Left - Instruments and Accessories
	Provision for illumination	Yes
	Location	On Instrument Board - Right of Steering Column
Main lighting switch	Identify positions and lamps controlled	Rocker Toggle Type - Located at Center of Windshield Header Head, Park, Tail and License Plate
Other light switches	Locations and lamps controlled	Instrument Lamp Switch - Windshield Header
Other switches	Locations and devices controlled	Heater Blower Fan Motor - Windshield Header Windshield Wiper Motor - Instrument Board to Left of Steering Column
Windshield wiper	Make	Prestolite
	Type	Depressed Parking - Parallel Wipers - Electric
	Vacuum booster provision	None
	Washer provision	Yes
Horn	Type	Solenoid
	Number used	Two
	Amp draw (each)	10 Amps @ 14 Volts

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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

Headlamp beam indicator	}		
Parking lamp			20 CB
Tail lamp			
Stop lamp		6 SAE 6	
Direction indicator		15 AGC 15	
License plate lamp		Same as Head Lamp	
Instrument lamp		Inst. Same as Head Lamp	
Ignition lamp		On With Inst. Lights	
Back up lamp		1 AG	
Dome lamp & Cigar Lighter		14 Amp SAE	
Clock		1 Amp IAG	
Clock lamp		Same as Inst.	
Radio		2-1/2 Amp SAE	
Glove compartment lamp		---	
Windshield Wiper		5 Amp CB	
Heater System		15 Amp AGC	
Shift Indicator		2 IAG	

* On Same Circuit Breaker

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	---
		Highest	26-3/16"
	Stop		26-3/16"
	Backup		27-15/32"
	License, rear		19-31/32"
	Directional	Front	25-11/16"
		Rear	26-3/16"
	Headlamp	Inside	---
Outside*		25-11/32"	
Distance from C/L of car to center of bulb	Tail	Inside	---
		Outside	25-35/64"
	Stop		25-35/64"
	Backup		16-11/32"
	License, rear		0 - Center of Car
	Directionc	Front	28-3/4"
		Rear	25-35/64"
	Headlamp	Inside	---
Outside*		20-7/16"	

* If single headlamps are used enter here.

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Borg and Beck Semi-Centrifugal	
Type pressure plate springs	Coil	
Effective plate pressure (lb.)	1456	1784
No. of clutch driven discs	1	
Clutch facing	Material	Molded
	Outside & inside dia.	10-1/2 x 6-1/2
	Total eff. area (sq.in.)	106.8
	Thickness	.125
	Engagement cushioning method	Plate Cushion Springs
Release bearing	Type & method of lubrication Single Row - Ball - Prelubricated	
Torsional damping	Methods: springs, friction material Coil Springs and Steel Washers	

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	3-Speed - Std.	4-Speed - Std.
Manual with overdrive (std. or opt.)	N.A.	
Automatic (std. or opt.)	High Performance - 3-Speed With Manual Shift Feature - Opt.	

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	3 - Warner T-86	4 - Warner AS6-T10D	
Transmission ratios	In first	2.57-1	
	In second	1.55-1	
	In third	1.00-1	
	In fourth	None	
	In reverse	3.489-1	
Synchronous meshing, specify gears	2nd and 3rd	1st, 2nd, 3rd and 4th	
Shift lever location	Floor		
Lubricant	Capacity (pt.)	3.8	
	Type recommended	Mineral Oil Gear Lubricant	
	SAE viscosity number	Summer	SAE 80
		Winter	SAE 80
		Extreme cold	SAE 80

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Warner AS2-10	
Type describe	Torque Converter and Compound Planetary	
Method of Selection (Lever, Push Button or other)	Floor - Lever	
Selector Pattern	P-R-N-D-2-1	
List gear ratios Selector Pattern and indicate which are used in each selector position	1 - 1st Gear - Torque Converter x 2.40:1 2 & D - 2nd Gear - Torque Converter x 1.47:1 D - 3rd Gear - Torque Converter x 1.00:1 R - Reverse - Torque Converter x 2.00:1	
Max. upshift speeds—drive range	82 With 3.31 axle; 72 With 3.73 axle	
Max. kickdown speeds—drive range	73 with 3.31 axle; 64 With 3.73 axle	
Torque converter	Number of elements	3
	Max. ratio at stall	2.25:1 @ 2400 RPM
	Type of cooling (air, water)	Forced Air Plus Water
Lubricant	Capacity—refill (pt.)	18
	Type recommended	Type 'A' Automatic Transmission Lubricant
Special transmission features	Manual Selection of 1st and 2nd Gear, Inhibited on Downshift. Starts in 2nd Gear with Automatic Upshift to 3rd in 'D'.	

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Exposed Tubular	
Outer diameter x length* x wall thickness	Manual transmission	3-Speed Trans. - 2-3/4 x 45-25/32 - .065" 4-Speed Trans. - 3-1/4 x 51-29/32 - .065"
	Overdrive transmission	None
	Automatic transmission	2-3/4 x 46-9/32 - .065"

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

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Universal joints	Make	Spicer
	Number used	2
	Type (ball and trunion, cross, other)	Cross
	Bearing	Type (plain, anti-friction)
Lubric. (fitting, prepack)		Prepacked
Drive taken through (torque tube or arms, springs)		Rear Springs and Radius Rods
Torque taken through (torque tube or arms, springs)		Rear Springs and Radius Rods

DRIVE UNITS—REAR AXLE

Description (see instructions)	Hypoid - Semi-Floating - Model 44			
Limited Slip differential, type	Twin-Traction Limited Slip - Model 44 - (Opt.)			
Drive Pinion Offset	1.5			
No. of differential pinions	2 - Std. Axle; 4 - Twin-Traction			
Gear ratios (Std. equip.)	Manual transmission	3.31	3.73	
	Overdrive transmission	None		
	Automatic transmission	3.31	3.73	
Ring gear O.D. (std. ratio)	P. D. - 8.500 - O. D. - 8.544			
Pinion adjustment (shim, other)	Shim			
Pinion bearing adj. (shim, other)	Shim			
Wheel bearing type	Tapered Roller			
Lubricant	Capacity (pt.)	3		
	Type recommended	Hypoid Lubricant		
	SAE viscosity number	Summer	SAE 90	} For Twin-Traction use Studebaker Special Lubricant
		Winter	SAE 90	
		Extreme cold	SAE 80	

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		
No. of teeth	Pinion	
	Ring gear	

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DRIVE UNITS—WHEELS

Type & material		Disc - H. R. Steel
Rim (size and flange type)	Std.	15 x 5K - Drop Center Safety
	Opt.	None
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.5
	Number and size	5 - 1/2"

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.70x15 - 4
	Type - Nylon, etc.	Rayon (Nylon - Opt.)
Rev/mile at 50 mph.		757
Inflation press.(cold)	Front	24
	Rear	20
Optional tires - size and ply		

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Caliper Disc - Front; Non-Servo - Rear
Self adjusting (std., opt., N.A.)		---
Hydraulic system type (single, dual, etc.)		Single
Power brake make & type (remote, integral, etc.)		Bendix Tandem Master-Vac, Integral
Effective area (sq. in.)*		105
Gross lining area (sq. in.)**		105
Swept drum area (sq. in.)***		377
Percent brake effectiveness—front		62%
Drum	Front	11-1/2" O.D. - Disc
	Rear	11" x 2"
Type and material		Front - Gray Iron Disc - Rear - Composite-Finned
Wheel cylinder bore	Front	2-1/8
	Rear	3/4
Master cylinder bore		1-1/8
Available pedal travel		6-3/8
Line pressure at 100 lb. pedal load		1300# @ 100 pedal
Shoe clearance adjustment		Not Applicable to Fronts; For Rears - .006" - .008"

(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.

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BRAKES—SERVICE (cont.)

Bonded or riveted		Bonded	
Brake lining	Front Brake	Material	Mintex 33M
		Size (length x width x thickness)	Inner - 2 x 2 x .416 Usable
	Segments per shoe	1	Outer - 2 x 2 x .416 Usable
	Rear Brake	Material	Marshall-Eclipse - M2112C
Size (length x width x thickness)		Front wheel	12.2 x 2 x .180
Segments per shoe		Rear wheel	10 x 2 x .180
		1	

BRAKES—PARKING

Type of control		T-Handle - Pull Type
Location of control		Right of Steering Column
Operates on		Rear Wheel Brakes
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

Box Section, Double Drop, Ladder Type With X-Member

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

Provision for car leveling		None
Provision for brake dip control		Yes - Asymmetric Rear Springs and Radius Rods
Provision for acc. squat control		Yes - Asymmetric Rear Springs and Radius Rods
Special provisions for car jacking		None
Shock absorber front & rear	Type	Adjustable Direct Acting - Hydraulic
	Make	Gabriel
	Piston dia.	1-3/16
Other special features		Rear Radius Rods Control Spring Wind-Up

SUSPENSION—FRONT

Type and description

Independent Coil Springs

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

(Continued)

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SUSPENSION FRONT (cont.)

Spring	Type	Independent Coil Springs	
	Material	SAE 9260 or 5160 Steel	
	Size (coil design height & I.D.; bar length x dia.)	9.125 x 4.1875 x 126.0 x .625	
	Spring rate (lb. per in.)	280	
	Rate at wheel (lb. per in.)	116 (Including Support Arm Bushings)	
	Design load (lb. @ design height)	1415 @ 9-1/8	
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	SAE 1065 - 750"	

STEERING

Mechanical (std., opt., NA)			Standard											
Power (std., opt., NA)			Optional											
Wheel diameter			16"											
Turning diameter	Outside front	Wall to wall (l. & r.)	40"											
		Curb to curb (l. & r.)	37"											
	Inside rear	Wall to wall (l. & r.)	N.A.											
		Curb to curb (l. & r.)	N.A.											
Outside wheel angle with inside wheel at 20°			17° to 18°											
Mechanical	Gear	Type	Cam and Single Lever, Roller Stud											
		Make	Ross											
		Ratios	<table style="display: inline-table; border: none;"> <tr> <td style="border: none;">Std. {</td> <td style="border: none; text-align: center;">22:1</td> <td style="border: none;">Opt. {</td> <td style="border: none; text-align: center;">16:1</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">29.5 - 24.5 - 29.5</td> <td style="border: none;"></td> <td style="border: none; text-align: center;">22-18-22 *</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none; text-align: center;">5</td> <td style="border: none;"></td> <td style="border: none; text-align: center;">3.5</td> </tr> </table>	Std. {	22:1	Opt. {	16:1		29.5 - 24.5 - 29.5		22-18-22 *		5	
	Std. {	22:1	Opt. {	16:1										
	29.5 - 24.5 - 29.5		22-18-22 *											
	5		3.5											
No. wheel turns														
Power	Type (coaxial, linkage, etc.)		Hydraulic - Linkage											
	Make		Bendix - Eaton											
	Trade name		---											
	Gear	Type	Cam and Single Lever - Roller Stud											
		Ratios	16:1											
		Overall	22 - 18 - 22											
	Pump driven by		V-Belt											
Number wheel turns		3.5												
Linkage	Type		Center Point Steering With Equal Length Tie Rods											
	Location (front or rear of wheels, other)		Rear											
	Drag link (trans. or longit.)		Longitudinal											
	Tie rods (one or two)		two											

* Special Order - Optional

(Continued)

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MODEL _____

STEERING (cont)

Steering Axis	Inclination at camber (deg.)		6° @ 0° Camber
	Bearings (type)	Upper	Bushings
		Lower	Needle
		Thrust	Ball
Wheel alignment (range and preferred)	Caster (deg.)		+3/4° to -3/4° (0° Preferred)
	Camber (deg.)		0° to +1° (1/2° Greater Camber Favored on Drivers Side)
	Toe-in (outside tread-inches)		1/16 - 1/8 With Power Steering 3/16 - 1/4 Without Power Steering
Steering spindle & joint type			Reverse Elliott
Wheel spindle	Diameter	Inner bearing	1.250"
		Outer bearing	.750"
	Thread size		3/4" - 16
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description			Semi-Elliptic Rear Springs - Asymmetric
Drive and torq. taken through (see page 17)			Rear Springs and Radius Rods
Spring	Type		Semi-Elliptic - Leaf
	Material		SAE 5160 or 9260
	Size (length x width, coil design height and I.D.; bar length & dia.)		51" x 2-1/2"
	Spring rate (lb. per in.)		105
	Rate at wheel (lb. per in.)		136
	Design load (lb. at design height)		700 @ 2-1/2" Negative Camber
	Mounting insulation type		Rubber Bushings
	If leaf	No. of leaves	
Inserts		Type and size	Button Type - 2.38 x .080 Hexagon
		Material	Polyethylene With Graphite
Shackle (comp. or tens.)		Compression	
Stabilizer	Type (link, linkless, frameless)		Link
	Material		SAE 1065
Track bar type			None

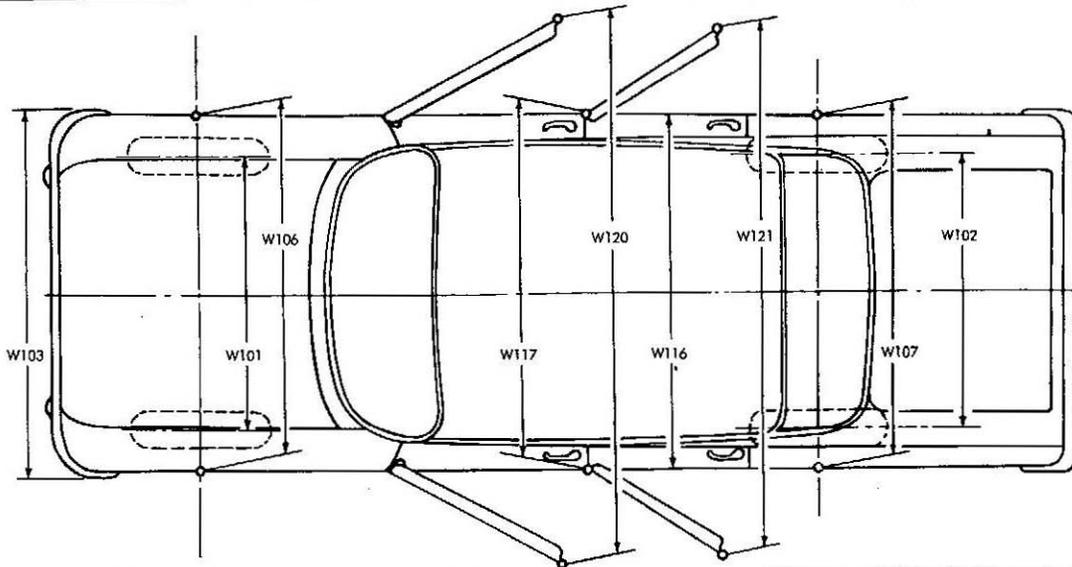
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CAR AND BODY DIMENSIONS—GENERAL

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

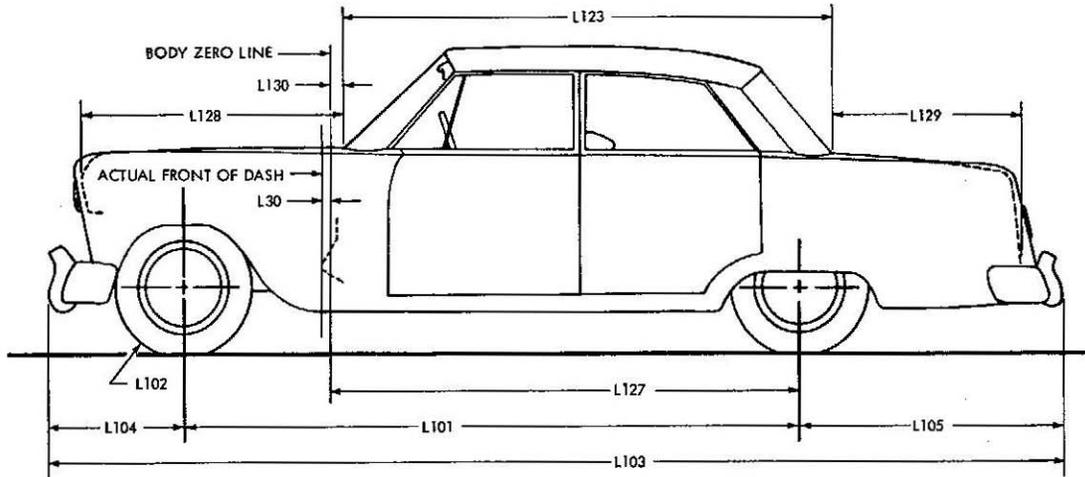


MODEL	Ref. No.	63R
Tread - front	W101	57.375
Tread - rear	W102	56.562
Maximum overall car width	W103	70.4
Maximum overall body width	W116	70.12
Maximum body width at #2 pillar	W117	67.4
Front fender overall width	W106	70.4
Rear fender overall width	W107	67.4
Maximum overall car width - front doors open	W120a	162.5
Maximum overall car width - rear doors open	W121a	None

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EXTERIOR LENGTH DIMENSIONS

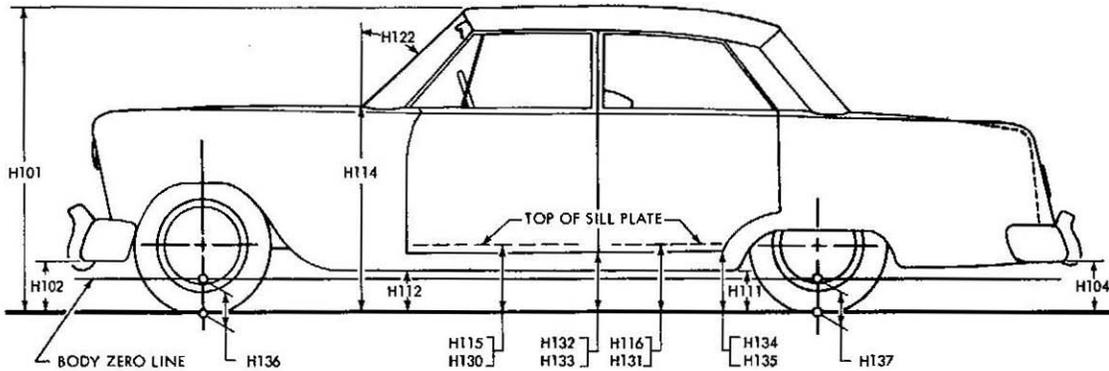


MODEL	Ref. No.	63R
Body zero line to actual front of dash	L30	2.0
Wheelbase	L101	109
Overhang - front	L104	39.44
Overhang - rear	L105	44.0
Overall length	L103	194.0
Hood length at car centerline	L128a	61.5
Body upper structure length at car centerline	L123	104
Deck length at car centerline	L129a	18.04
Body zero line to centerline of rear wheels	L127	95.5
Body zero line to windshield cowl point	L130a	17.5
Tire size	L102	6.70 x 15

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EXTERIOR HEIGHT DIMENSIONS

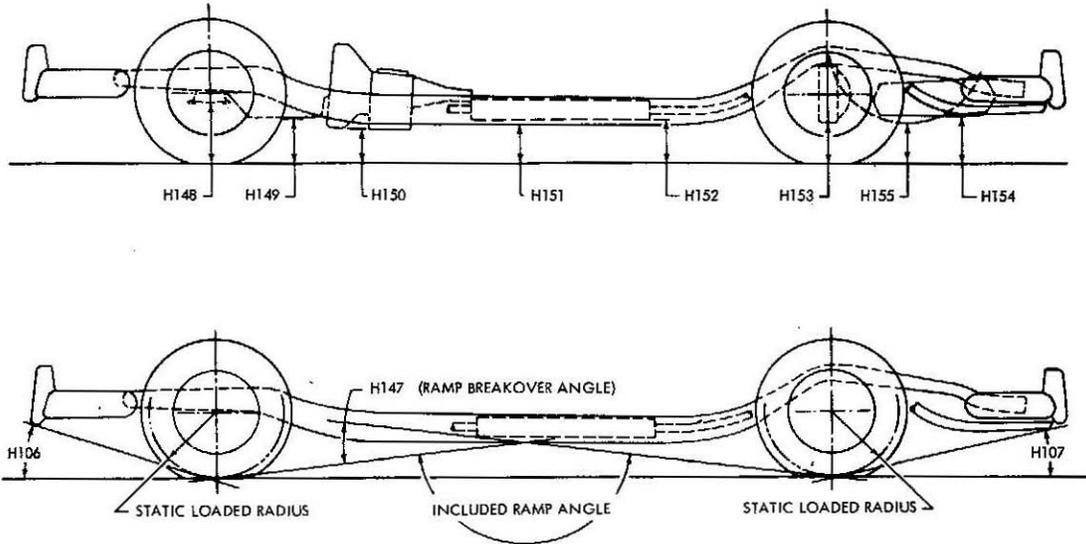


MODEL	Ref. No.	63R
Overall height	H101	53.9
Hood at rear to ground	H114	38.1
Rocker panel to ground - front	H112a	8.0
Rocker panel to ground - rear	H111	9.19
Step height - front (design load)	H115	12.375
Step height - rear (design load)	H116	None
Step height - front (curb load)	H130	N.A.
Step height - rear (curb load)	H131	N.A.
Bottom of door to ground, open - front	H132	13.625
Bottom of door to ground, closed - front	H133	12.5
Bottom of door to ground, open - rear	H134	None
Bottom of door to ground, closed - rear	H135	None
Front bumper to ground	H102	18.0
Rear bumper to ground	H104	19.69
Windshield slope angle	H122	49° - 30'
Body zero to ground - front	H136a	10.75
Body zero to ground - rear	H137a	10.75

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GROUND CLEARANCE DIMENSIONS

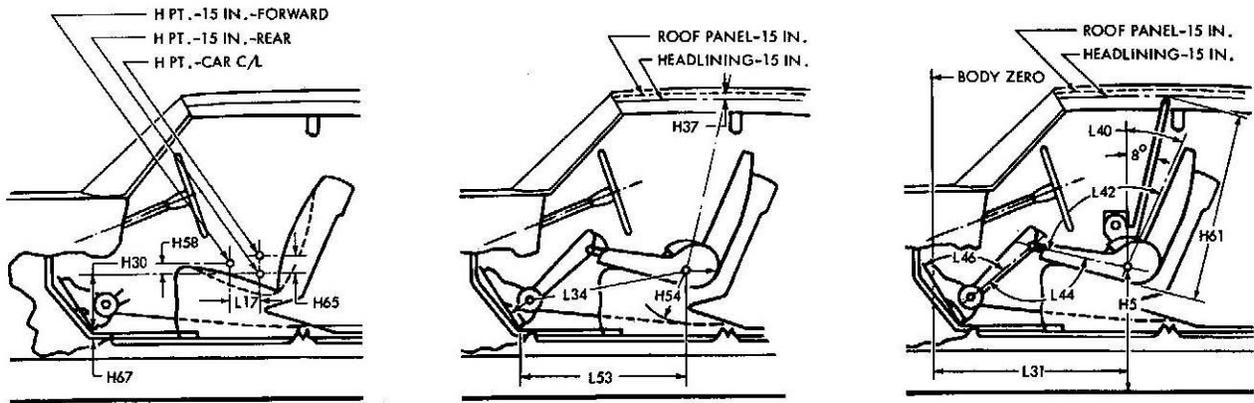


MODEL	Ref. No.	63R
Angle of approach	H106	28°
Angle of departure	H107	22°
Ramp breakover angle	H147	14° - 20'
Front suspension to ground	H148	7-13/16
Oil pan to ground	H149	7-1/16
Flywheel housing to ground	H150	7-7/8
Frame structure to ground	H151	7-5/16
Exhaust system to ground	H152	6-3/16
Rear axle differential to ground	H153	8
Fuel tank to ground	H154	8-13/16
Spare tire well to ground	H155	None
Minimum running ground clearance	H156	6-3/16

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FRONT COMPARTMENT DIMENSIONS

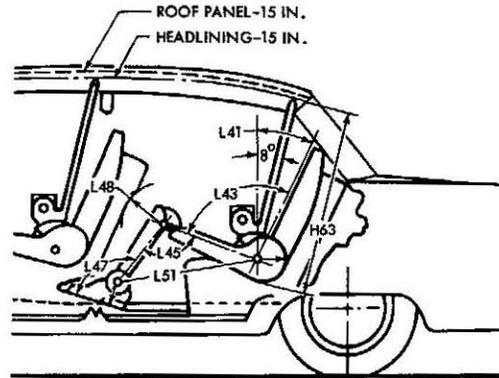
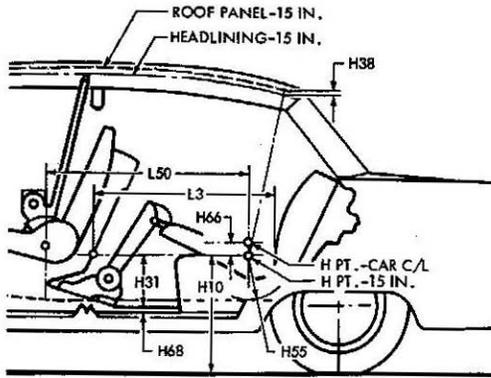


MODEL	Ref. No.	63R
H Point to body zero line	L31a	46.21
H Point to ground	H5a	19.46
Effective head room	H61a	37.5
Headlining to roof height	H37	.25
Maximum effective leg room - accelerator	L34a	42.25
H Point to heel point	H30a	7.5
Depressed floor covering thickness	H67a	.18
Back angle	L40a	24°
Hip angle	L42a	96°
Knee angle	L44a	131° - 30'
Foot angle	L46a	80°
H Point differential, side to center	H65a	N.A.
H Point to tunnel	H54a	1.87
H Point to accelerator floor point	L53a	36.00
H Point travel	L17a	6.00
H Point rise	H58a	1.38

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REAR COMPARTMENT DIMENSIONS

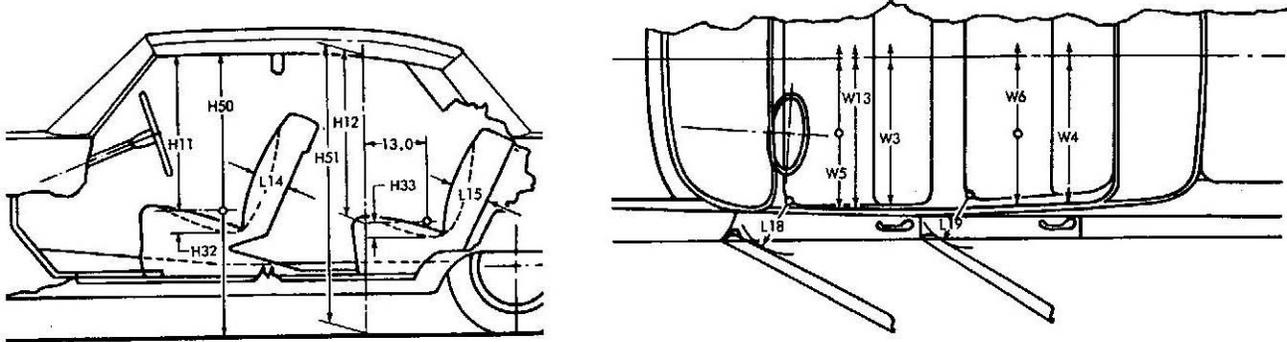


MODEL	Ref. No.	63R
H Point couple distance	L50a	28.68
H Point to ground	H10a	22.15
Effective head room	H63a	34.75
Headlining to roof height	H38	.25
Minimum effective leg room	L51a	26.25
H Point to heel point	H31a	10.88
Depressed floor covering thickness	H68a	.18
Minimum knee room	L48a	2.5
Rear compartment room	L3	24.88
Back angle	L41a	30°
Hip angle	L43a	83°
Knee angle	L45a	55°
Foot angle	L47a	98°
H Point differential, side to center	H66a	N.A.
H Point to tunnel	H55a	6.62

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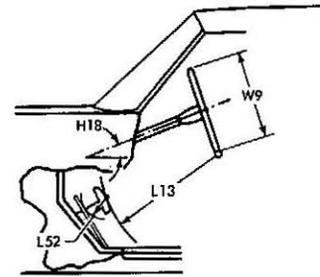
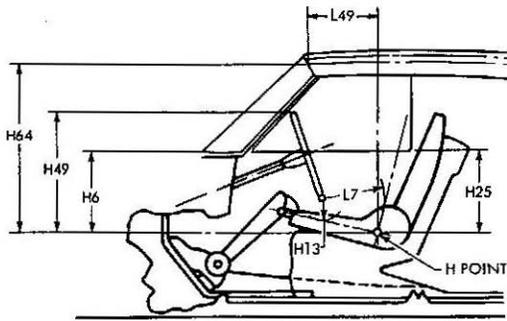
SEAT AND ENTRANCE DIMENSIONS



MODEL	Ref. No.	63R
Shoulder room - front	W3a	52.5
Hip room - front	W5a	54.7
Seat width - front	W16a	49.25 (Bucket Seats With Console)
Upper body opening to ground - front	H50a	50.25
Entrance height - front	H11a	29.75
Entrance foot clearance - front	L18	16.75
Seat cushion deflection - front	H32a	1.62
Seat back thickness - front	L14	3.5
Shoulder room - rear	W4a	51.5
Hip room - rear	W6a	47.0
Upper body opening to ground - rear	H51a	50.56
Entrance height - rear	H12a	27.375
Entrance foot clearance - rear	L19	N.A.
Seat cushion deflection - rear	H33a	2.12
Seat back thickness - rear	L15	4.75

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VISION AND CONTROL DIMENSIONS



MODEL	Ref. No.	63R
H Point to windshield bottom DLO	H6a	19.18
H Point to windshield upper DLO	H64a	31.18
H Point to windshield upper DLO	L49a	14.18
Belt height - front	H25a	20.38
Steering wheel center to centerline of car	W7	14.0
Steering wheel maximum outside diameter	W9	16.0
Steering column angle - horizontal	H18	17° - 30°
H Point to top of steering wheel	H49a	21.25
Steering wheel torso clearance	L7a	11.93
Steering wheel thigh clearance	H13a	2.28
Brake pedal knee clearance	L13	22.62
Brake pedal to accelerator	L52a	4.5
Tumble-home	W122a	25°

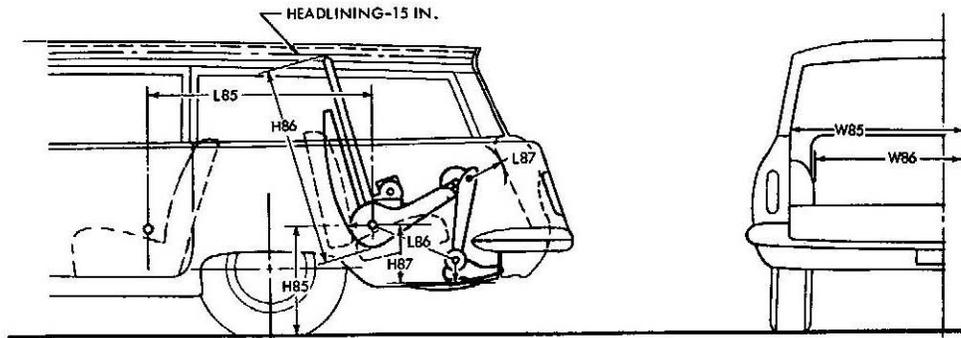
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LUGGAGE COMPARTMENT

MODEL	Ref. No.	63R
Usable luggage capacity (See instructions)		14.755
Liftover height*	H301a	24.531
Position of spare tire storage		Flat In Luggage Compartment
Method of holding lid open		Counter-Balanced Spring Hinges

THIRD SEAT DIMENSIONS



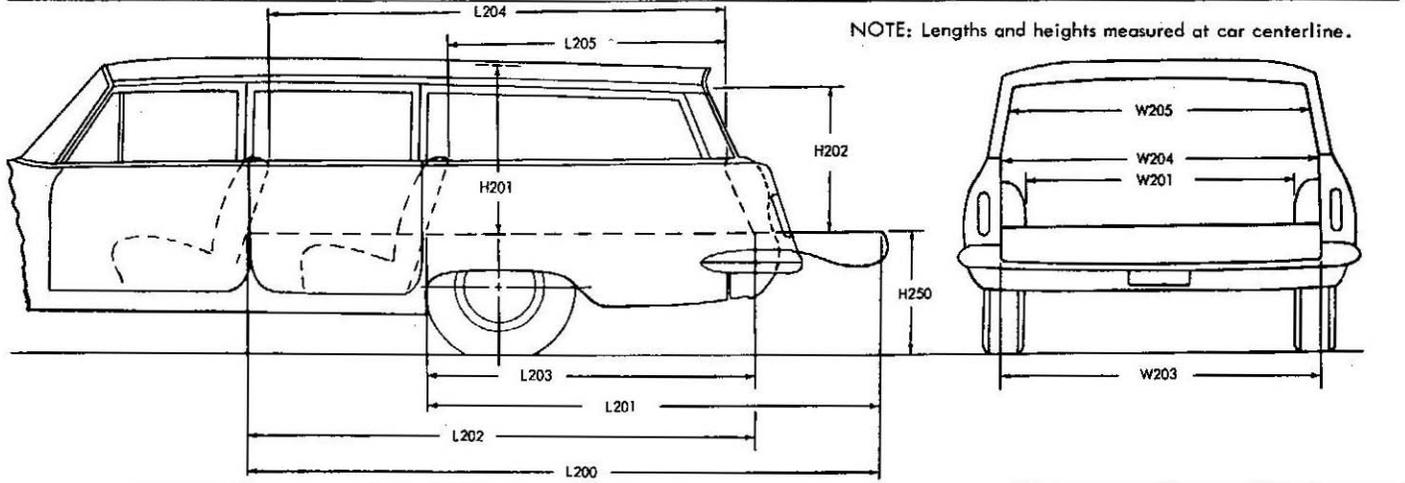
MODEL	Ref. No.	
Seat facing direction		
Shoulder room	W85a	
Hip room	W86a	DOES NOT
H Point couple distance	L85a	APPLY
H Point to ground	H85a	
Effective head room	H86a	
Effective leg room	L86a	
H Point to heel point	H87a	
Knee room	L87a	
Back angle	L88a	
Hip angle	L89a	
Knee angle	L90a	
Foot angle	L91a	

* Vertical dimension from luggage compartment lower opening to ground.

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STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	
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	DOES NOT
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	APPLY
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.) W4 x L204 x H201 1728		

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63R

MODEL _____

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	None
Type of finish (lacquer, enamel, other)		Lacquer
Hood hinge location (front, rear)		Front
Hood counterbalanced (yes, no)		No
Hood release control (internal, external)		Internal
Vehicle (Serial) No. Location		Right Frame Side Rail
Engine No. Location		Left Front Top of Block
Theft protection - type		Lock and Keys at Door, Ignition, Console Compartment and Inst. Board Compartment. Internally Controlled Latches for Hood and Deck Lid. Barrier Between Ignition Connections.
Vent window control method (crank, friction pivot)	Front	Friction Pivot
	Rear	Friction Pivot
Seat cushion type	Front	Foam
	Rear	Cone - Coil
Seat back type	Front	Foam
	Rear	Cone - Coil
Windshield type (single curved, compound curved, other)		One Piece - Curved
Rear window type (flat, curved, one piece, three piece)		Curved
Side glass type (curved, flat)		Curved
Side glass exposed surface area		1308 Sq. Ins.
Windshield glass exposed surface area		864 Sq. Ins.
Backlight glass exposed surface area		1725 Sq. Ins.
Total glass exposed surface area		3897 Sq. Ins.

