AMA Specifications – Passenger Car

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MANUFACTURER	CAR NAME	
Oldsmobile Division General Motors Corp.	Oldsmobile	
MAILING ADDRESS	MODEL YEAR	ISSUED: 9-1-62
Lansing 21, Michigan	1963	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.

Body Type	No. of Passengers	"88"	Super "88"	Starfire	"98"
4 Door Sedan	6	3269	3569	-	3819
4 Door Hardtop Sedan (4 Window)	6	3239	3539	-	3839
4 Door Hardtop Sedan (6Window)	6	-	-	-	3829
2 Door Hardtop Coupe	6	3247	3547	3657 *	3847
2 Door Sport Coupe	5	-	-	-	3947
2 Door Convertible Coupe	5	3267	-	3667	3867
4 Door Station Wagon 2-seat	6	3235	3535	-	-
4 Door Station Wagon 3-seat	9	3245	-	-	-

* Passenger Capacity is 5 - Bucket Front Seats Std. Equipment.

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.	3239	3247	3267	3269	3235-45	3539	3547	3569
Wheelbase (L101)		23	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Tread	Front (W101)	22	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
	Rear (W102)	22	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
Maximum Overall Dimensions	Length (L103)	23	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5
	Width (W103)	22	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
	Height (H101)	24	55.6	55.2	55.9	56.3	58.1	55.6	55.2	56.3
Transmission—(Specify trade name - opt., not available)	Manual	15	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
	Overdrive	16	NA	NA	NA	NA	NA	NA	NA	NA
	Automatic	16	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Axle ratio	Manual	17	3.23	3.23	3.23	3.23	3.23	3.23	3.23	3.23
	Overdrive	17	None	None	None	None	None	None	None	None
	Automatic	17	2.56	2.56	2.56	2.56	2.69	2.87	2.87	2.87
Tire size		18	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14
Engine	Type, no. cyl., valve arr.	2		90° V-8 O.H.V.						
	Fuel system (Carb., other)	8			Carburetor					
	Bore and stroke	2		4.125	x 3.688					
	Piston displ., cu.in.	2	394	394	394	394	394	394	394	394
	Std. compression ratio	2	10.25:1	10.25:1	10.25:1	10.25:1	10.25:1	10.25:1	10.25:1	10.25:1
	Max. bhp at engine rpm	2	280@ 4400	280@ 4400	280@ 4400	280@ 4400	280@ 4400	330@ 4600	330@ 4600	330@ 4600
	Max. torque at rpm	2	430@ 2400	430@ 2400	430@ 2400	430@ 2400	430@ 2400	440@ 2800	440@ 2800	440@ 2800

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	3535	3657	3667	3819	3829	3839	3847	3867	3947
Wheelbase (L101)		23	123.0	123.0	123.0	126.0	126.0	126.0	126.0	126.0	126.0
Tread	Front (W101)	22	62.2	62.2	62.2	62.2	66.2	62.2	62.2	62.2	62.2
	Rear (W102)	22	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
Maximum Overall Dimensions	Length (L103)	23	214.5	214.5	214.5	221.7	221.7	221.7	221.7	221.7	221.7
	Width (W103)	22	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
	Height (H101)	24	58.1	55.0	55.9	57.1	57.1	55.1	55.8	55.8	55.1
Transmission—(Specify trade name - opt., not available)	Manual	15	Std.	NA	NA	NA	NA	NA	NA	NA	NA
	Overdrive	16	NA	NA	NA	NA	NA	NA	NA	NA	NA
	Automatic	16	Opt.	Std.	Std.	Std.	Std.	Std.	Std.	Std.	Std.
Axle ratio	Manual	17	3.23	NA	NA	NA	NA	NA	NA	NA	NA
	Overdrive	17	None	None	None	None	None	None	None	None	None
	Automatic	17	3.08	3.42	3.42	3.08	3.08	3.08	3.08	3.08	3.42
Tire size		18	8.00 x 14	8.00 x14	8.50 x 14	8.50 x 14	8.50 x 14	8.50 x 14	8.50 x 14	8.50 x 14	8.50 x 14
Engine	Type, no. cyl., valve arr.	2			90° V-8 O.H.V.						
	Fuel system (Carb., other)	8			Carburetor						
	Bore and stroke	2			4.125 x 3.688						
	Piston displ., cu.in.	2	394	394	394	394	394	394	394	394	394
	Std. compression ratio	2	10.25:1	10.50:1	10.50:1	10.25:1	10.25:1	10.25:1	10.25:1	10.25:1	10.50:1
	Max. bhp at engine rpm	2	330@ 4600	345@ 4800	345@ 4800	330@ 4600	330@ 4600	330@ 4600	330@ 4600	330@ 4600	345@ 4800
	Max. torque at rpm	2	440@ 2800	440@ 3200	440@ 3200	440@ 2800	440@ 2800	440@ 2800	440@ 2800	440@ 2800	440@ 3200

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MODEL		3200	3500 & 3800	3600 & 3900
ENGINE—GENERAL				
Type, no. cyls., valve arr.		90° V8 O.H.V.		
Bore and stroke (nominal)		4.125 x 3.688		
Piston displacement, c.u. in.		394		
Bore spacing (C/L to C/L)		4.625		
No. system (front to rear)	L. Bank	1 - 3 - 5 - 7		
	R. Bank	2 - 4 - 6 - 8		
Firing order		1 - 8 - 7 - 3 - 6 - 5 - 4 - 2		
Compres. ratio (nominal)		10.25:1		10.50:1
Cylinder Head Material		Cast Iron		
Cylinder Block Material		Cast Iron		
Cylinder Sleeve–Wet, dry, none		None		
Number of mounting points	Front	One		
	Rear	Two		
Engine installation angle		Standard Transmission: 4° 30' Hydramatic: 4°		
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$		54		
Published max. bhp* @ eng. RPM		280 @ 4400	330 @ 4600	345 @ 4800
Published max. torque* (lb. ft. @ RPM)		430 @ 2400	440 @ 2800	440@ 3200
Recommended fuel regular - premium		Premium		
Idle speed (spec. neutral or drive)	Manual	550	550	650
	Automatic	500	500	600

ENGINE—PISTONS			
Material		Aluminum Alloy	
Description and finish		Autothermic, Cam Grind, Tin Plate, Steel Strut	
Weight (piston only) oz.		26.349	
Clearance (limits)	Top land	.028 - .034	
	Skirt Top	.00075 - .00225	
	Skirt Bottom	.00075 - .00125	
Ring groove depth	No. 1 ring	.2125 - .2195	
	No. 2 ring	.2125 - .2195	
	No. 3 ring	.2045 - .2075	
	No. 4 ring	None	

* 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		
3200 (Std.)	394	2 bbl.	10.25:1	280@ 4400	430@ 2400	Synchromesh	3.23:1
						Hydra-Matic	2.56:1
3200(Opt.)	394	2 bbl.	8.75:1	260@ 4400	410@ 4400	Synchromesh	3.23:1
						Hydra-Matic	2.69:1
3200 (Opt.)	394	4 bbl.	10.25:1	330@ 4600	440@ 2800	Synchromesh	3.23:1
						Hydra-Matic	2.87:1
3500 (Std.)	394	4 bbl.	10.25:1	330@ 4600	440@ 2800	Synchromesh	3.23:1
						Hydra-Matic	2.87:1
3600 & 3900 (Std.)	394	4 bbl.	10.50:1	345@ 4800	440@ 3200	Hydra-Matic	3.42:1
3800 (Std.)	394	4 bbl.	10.25:1	330@ 4600	440@ 2800	Hydra-Matic	3.08:1

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MODEL			3200	3500 & 3800	3600 & 3900
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 - Upper Ring: Chrome Plated O. D. - Tape Face Lower Ring: Parco-Lubrited-Taper Face - Interrupted Scraper Groove		
	Width		#1: .0775 - .0780	#2: .0925 - .0935	
	Gap		.013 - .023		
Oil	Description - material, type, coating, etc.		Spring Steel - Two Rails: Chrome Plated O. D. Spacer: Black Oxide		
	Width		Rails: .0235 - .0250 Each	Spacer: .177 - .182	
	Gap		.015 - .055		
Expanders			None		
ENGINE—PISTON PINS					
Material			S. A. E. #1016 Special		
Length			3.126		
Diameter			.9803 - .9807		
Type	Locked in rod, in piston, floating, etc.		Full Floating		
	Bushing	In rod or piston	Rod		
		Material	G. M. #4077 - M Bronze		
Clearance	In piston		.0003 - .0005 Loose		
	In rod		.0003 - .0005 Loose		
Direction & amount offset in piston			.090 to R. H. of Cylinder Bore Centerline		
ENGINE—CONNECTING RODS					
Material			Steel - S. A. E. # 1139		
Weight (oz.)			34.55 oz.		
Length (center to center)			6.998		
Bearing	Material & Type		Moraine 400 Aluminum with G. M. 3874 Babbitt Overlay - Steel Backed		
	Overall length		.821 - .831		
	Clearance (limits)		.0005 - .0025		
	End play		(.004 to .009 Preferred) .002 - .011 - 2 Rods per Crankpin		

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MODEL	3200	3500 & 3800	3600 & 3900

ENGINE—CRANKSHAFT

			3200	3500 & 3800	3600 & 3900
Material			S. A. E. #1145 Modified or S. A. E. #1046		
Vibration damper type			Rubber Absorption		
End thrust taken by bearing (No.)			Rear - Upper & Lower		
Crankshaft end play			.004 - .008		
Main bearing	Material & type		#1-2-3-4: Steel Backed Aluminum Moraine 400 with G. M. 3874-M Babbitt Overlay #5(Rear: Steel Backed Durex 100A with G. M. 4176-M Babbitt Overlay		
	Clearance		#1 & 2: .0005 - .0021 #3&4: .0008-.0024 #5 Rear .0020-.0034		
	Journal dia. and bearing overall length	No. 1	3.00 x 1.068		
		No. 2	3.00 x .818		
		No. 3	3.00 x .818		
		No. 4	3.00 x .818		
		No. 5	3.00 x 1.690		
		No. 6	None		
		No. 7	None		
	Dir. & amt. cyl. offset		None		
Crankpin journal diameter			2.50		

ENGINE—CAMSHAFT

			3200	3500 & 3800	3600 & 3900
Location			Center		
Material			Alloy Cast Iron		
Bearings	Material		Steel Backed G. M. 4195-M Babbitt		
	Number		5		
Type of Drive	Gear or chain		Chain		
	Crankshaft gear or sprocket material		S. A. E. #1140, 1118, 1146, G. M. 85M Steel or A. S. T. M. B-310 Sintered Iron		
	Camshaft gear or sprocket material		Cast Iron		
	Timing chain	No. of links	48		
		Width	.844		
		Pitch	.500		

ENGINE—VALVE SYSTEM

		3200	3500 & 3800	3600 & 3900
Hydraulic lifters (Std, opt, NA)		Standard		
Valve rotator, type (intake, exhaust)		None		
Rocker ratio		1.8 : 1		
Operating tappet clearance (indicate hot or cold)	Intake	None		
	Exhaust	None		
Timing marks on flywheel, damper, other		Camshaft Sprocket & Crankshaft Sprocket		

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ENGINE—VALVE SYSTEM (cont.)

MODEL			3200	3500 & 3800	3600 & 3900
Timing	Intake	Opens (°BTC)	14	11	21
		Closes (°ABC)	50	59	77
		Duration - deg.			
	Exhaust	Opens (°BBC)	54	59	60
		Closes (°ATC)	16	25	20
		Duration - deg.			
	Valve opening overlap				
Intake	Material		S. A. E. 1041, 1047 Steel		
	Overall length		5.093		
	Actual overall head dia.		1.875		
	Angle of seat & face		45°		
	Seat insert material		None		
	Stem diameter		.3432 - .3427		
	Stem to guide clearance		.0010 - .0025		
	Lift (@ zero lash)		.428	.435	.444
	Outer spring press. and length	Valve closed (lb. @ in.)	90 @ 1.837		
		Valve open (lb. @ in.)	182 @ 1.437		
	Inner spring press. and length	Valve closed (lb. @ in.)	None		
		Valve open (lb. @ in.)	None		
Exhaust	Material		G. M. N82152 Steel		
	Overall length		5.081		
	Actual overall head dia.		1.562		
	Angle of seat & face		45°		
	Seat insert material		None		
	Stem diameter		.3427 - .3422		
	Stem to guide clearance		.0015 - .0030		
	Lift (@ zero lash)		.435		
	Outer spring press. and length	Valve closed (lb. @ in.)	90# @ 1.837		
		Valve open (lb. @ in.)	182# @ 1.437		
	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	Pressure
	Cylinder walls	Pressure

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MODEL	3200	3500 & 3800	3600 & 3900

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	35-45 @ 50 M. P. H.
Oil pressure sending unit (elect. or mech.)	Electric
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.)	4 Quarts
Oil grade recommended (SAE viscosity and temperature range)	Above 32° F - S. A. E. 10 W-30, SAE 20W Below 32° F & Above 0° F. SAE 5 W-20, SAE 10W Below 0° F SAE 5 W-20, SAE 5 W
Engine Service Requirement (MM, MS, etc.)	MS (or Meets G. M. 4745 M)

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single with Crossover	Single with Crossover	Dual
Muffler No. & type (reverse flow, straight thru, separate resonator)		Reverse Flow	Reverse Flow	Reverse Flow Separate Resonator
Exhaust pipe dia. (O.D. wall thickness)	Branch	2.00 O. D. X .090		
	Main	2.25 O. D. X .036 & .048 Laminated		
Tail pipe diameter (O.D. & wall thickness)		2.25 O. D. X .054		

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Positive Crankcase Ventilation
		Optional	None
Control unit	Make and model		A. C. Dual Action
	Location		Valve Cover
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold Vacuum and Carburetor Air
	Control method (variable orifice, fixed orifice, other)		Fixed Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other		Intake Manifold and Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)		Breather Cap
	Flame arrestor (screen, check valve, other)		Screen

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MODEL			3200	3500 & 3800	3600 & 3900
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.)		21 Gallons		
	Filler location		L. H. Rear Quarter		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations				
	Pressure range		5 lbs. to 6 lbs. @ 16" Above Outlet @ 1800 Camshaft R. P. M.		
Vacuum booster (std., optional, none)			Standard		
Fuel Filter	Type		Accreated & Saran Type		
	Locations		Fuel Pump and Fuel Tank		
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air clnr. type	Standard	Polyurethane	Paper	Paper.
		Optional	Paper	None	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
3200 (Std.)	394		Rochester	2 GC	Single Dual	1.6875
32 (Opt.)	394		Rochester	4 GC	Single Quad.	1.5625 Prim 1.6875 Sec.
3500 & 3800 (Std.)	394		Rochester	4 GC	Single Quad.	1.5625 Prim 1.6875 Sec.
3600 & 3900 (Std.)	394		Rochester	4GC	Single Quad.	1.5625 Prim. 1.6875 Sec.

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ENGINE—COOLING SYSTEM

			MODEL 32	MODEL 35	MODEL 38
Type system (pressure, pressure vented, atmospheric, other)			Pressure System		
Radiator cap relief valve pressure			15 Pounds		
Circulation thermostat	Type (choke, bypass)		Choke		
	Starts to open at (°F)		167° - 172°		
Water pump	Type (centrifugal, other)		Centrifugal		
	GPM @ 1000 pump rpm		17.5		
	Number of pumps		One		
	Drive (V-belt, other)		V-Belt		
	Bearing type		Ball		
By-pass recirculation type (internal, external)			Internal		
Radiator core type (cellular, tube and fin, other)			Tube & Center		
Cooling system capacity	With heater (qt.)		20.25		
	Without heater (qt.)		19.25		
	Opt. equipment-specify (qt.)		1.65 Additional for Air Conditioned Cars		
Water jackets full length of cylinder (yes, no)			Yes		
Water all around cylinder (yes, no)			Yes		
Radiator hose	Lower	Number and type (molded, straight)	SAE 20 R 4 Class R - Grade 1A One - Molded - Modified		
		Inside diameter	1.75		
	Upper	Number and type (molded, straight)	SAE 20 R 4 Class R - Grade 1A One - Molded - Modified		
		Inside diameter	1.50		
	By-pass	Number and type (molded, straight)	None		
		Inside diameter	None		
Fan	Number of blades & Spacing		4 - 76° & 104° (6 A/C)		
	Diameter		18" (19" A/C)		
	Ratio-fan to crankshaft rev.		.817 to 1 (1.33 to 1 A/C)		
	Fan cutout type		None (Fan Clutch - A/C)		
	Bearing type		Ball		
*Drive belts (indicate belt used by letter)	Fan		A		
	Generator		B		
	Water Pump		C		
	Power Steering		D		
	Air Conditioning		E		

* Drive Belt Dimensions	A	B	C	D	E
Angle of V	36°	36°	36°	36°	36°
Nominal length (SAE)	52.41	52.41	52.41	52.41	67.00
Width	.380	.380	.380	.380	.380

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ELECTRICAL—SUPPLY SYSTEM

			MODEL 3200	MODEL 3500 & 3800	MODEL 3600 & 3900
Battery	Make and Model		Delco Remy 562		
	Voltage Rtg. & Total Plates		12-V-11 Plates		
	SAE Designation & Amp Hr. Rtg		3 KMB - 70 Amp HR		
	Location		Engine Compartment, Front L. H. Side		
	Terminal grounded		Negative		
Generator	Make		Delco Remy		
	Model		1100624		1100616
	Type		Self Rectifying AC		
	Ratio—Gen. to Cr/s rev.		2.34		2.83
	Gen. cut-in (hot)—engine rpm		Charge on Idle		
Regulator	Make		Delco Remy		
	Model		1119507		
	Type		Vibrating Contact		
	Cutout relay	Closing voltage @ generator rpm	None		
		Reverse current to open	None		
	Regulated	Voltage	13.5 - 14.4		
		Current	None - Self Regulating		
	Voltage test conditions	Temperature	125° F		
		Load	Less than 10 Amps		
		Other	Upper Contacts		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy		
	Model				
	Rotation (drive end view)		Clockwise		
	Engine cranking speed		150		
	Test conditions		80° F		
	Lock test	Amps	Not Specified		
		Volts	"		
		Torque (lb. ft.)	"		
	No load test	Amps	80 to 120		
		Volts	10.6		
		RPM (min.)	3900		
Motor control	Switch (solenoid, manual)		Solenoid		
	Starting procedure		Turn Ignition Key Against Spring Load, to Full Clockwise Position. Cars with Hydra-Matic Must Be on Park or Neutral to Start.		

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	166
	Flywheel tooth face width		NA

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		1115112
	Amps	Engine stopped	4.5
		Engine idling	2.0
Distributor	Make		Delco Remy
	Model		1111033
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 4° @ 800 R.P.M.
		Intermediate points deg. @ rpm	18° - 22° @ 2400 R.P.M.
		Max deg. @ rpm	24° - 28° @ 4000 R.P.M.
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	9 - 11
		Intermediate points, deg @ in Hg	N.A.
		Max. deg. in. Hg.	25° @ 19 in. HG
	Breaker gap (in.)		.016
	Cam angle (deg.)		28 to 32
	Breaker arm tension (oz.)		19 to 23
Timing	Crankshaft deg. @ rpm.		5° @ 850 R.P.M. except 3200 S.M.T.: 2.5° @ 850 R.P.M.
	Mark location		Vibration Dampener
	Cylinder numbering system (see page 2)		Right Bank 2 -4 -6 - 8 Left Bank 1 - 3 - 5 - 7
	Firing order (see page 2)		1 - 8 - 7 - 3 - 6 - 5 - 4 - 2
Spark Plug	Make and model		AC 44
	Thread (mm)		14 MM
	Tightening torque (lb. ft.)		23 - 28
	Gap		.030
Cable	Conductor type		Resistance
	Insulation type		Neoprene
	Spark plug protector		Silicone

ELECTRICAL—SUPPRESSION

Locations & type	Resistance Core Sparkplug Leads & Coil Lead. Bypass Condensers at Alternator, Regulator, & Coil on Radio Equipped Cars.

AMA Specifications – Passenger Car

MAKE OF CAR Olds B & C MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED (•)

ELECTRICAL—INSTRUMENTS AND SWITCHES

		MODEL 32	MODEL 35	MODEL 38
Speedometer	Make	AC		
	Trip odometer (yes, no)	No		
Charge Indicator—type		Ind. Lamp		
Temperature indicator—type		"	"	
Oil pressure indicator—type		"	"	
Fuel indicator—type		Gauge		
Other Hi Beam		Ind Lamp		
Tachometer		36 and 39 Models		In Console
Ignition switch	Identify positions in order and circuits controlled			
	1	Accessory On, Ign Off		
	2	All Off - Lock Position		
	Run - 3	Accessory on, Ign through Resistor		
	Start - 4	Accessory Off Ign Direct Solenoid On		
	Provision for illumination	Yes		
	Location	Instrument Panel Right of Driver		
Main lighting switch	Identify positions and lamps controlled			
	1	Part, Instrument, Tail and License Lts.		
	2	Headlamps, Instrument, Tail and License Lt.		
	Rotate Control	Dims Instrument Lts.		
Other light switches	Locations and lamps controlled			
	11	On L. H. Toe Pan Controls Headlamps Hi and Lo Beam		
	Foot Dimmer			
	Map Lt.	R. H. Side of Instrument Panel Overhang Controls Courtesy Lts. and Map Lt.		
	Courtesy Lt.			
Other switches	Locations and devices controlled			
	W/S Wiper	Left of Driver on Instrument Panel		
	Heater	Right of Driver on Instrument Panel		
	Power Top	Center of Instrument Panel in Overhang -		
	Elec. Ant	Center of Instrument Panel in Overhang -		
Windshield wiper	Make	Delco Appliance Div.	Delco Appliance Div.	
	Type	Elec. Single Speed	Elec. Two Speed	
	Vacuum booster provision	No		
	Washer provision	Yes		
Horn	Type	Vibrator		
	Number used	2		
	Amp draw (each)	8 - 10 Amps - 115 Volts		

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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.

MODEL	32	35	36	38	39
Headlamps & arrangement	Dual Headlights 2-5948502 2-5948501				
Headlamp beam indicator			1 - 158		
Parking			2 - 1034		
Tail			2 - 1034		
Stop			2 - 1034		
Direction signal - Front			2 - 1034		
Direction signal - Rear			2 - 1034		
Direction signal - Indicator			2 - 158		
License plate			1 - 67		
Instrument			3 - 158		
Ignition lock			1 - 53		
Back up			2 - 1073		
Dome	1 - 1004	2 - 90	2 - 90	2 - 90	2 - 90
Clock			1 - 1816		
Radio			1 - 1893		
Glove compartment			1 - 57		
Temp Ind	Hot		1 - 158		
Temp Ind.	Cold		1 - 158		
Oil "P" Ind.			1 - 158		
Gen Warn			1 - 158		
Safe Sent			1 - 158		
Shift Ind.	1 - 57	1 - 57	2 - 53	1 - 57	2 - 53
Heat & Vent			1 - 57		
Tachaometer			1 - 57		1 - 57
Ash Tray			1 - 53		
Cruise Cont			1 - 53		
Brake Warn			1 - 57X		
Under Hood			1 - 89		
Trunk			1 - 89		
Courtesy			2 - 90		
R. RCourtesy			2 - 90		2 - 90
Map Lt.			1 - 90		

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MAKE OF CAR Olds B & C **MODEL YEAR** '63 **DATE ISSUED** 9-1-62 **REVISED (•)**

MODEL 32 | 35 | 36 - 38 - 39

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	20 CB (A)	
Headlamp beam indicator	Same as (A)	
Parking lamp	Same as (A)	
Tail lamp	SFE 9 (B)	
Stop lamp	SFE 20 (C)	
Direction indicator	SFE 9 (D)	
License plate lamp	Same as (B)	
Instrument lamp	AGA 3 (E)	
Ignition lamp	Same as (E)	
Back up lamp	SFE 9 (F)	
Dome lamp	SFE 20 (G)	AGC - 25 (G)
Clock	AGA 2	
Clock lamp	Same as (E)	
Radio	AG N2 1/2	AG N 7 1/2 Super Dlx.
Glove compartment lamp	AGC 5 (F)	
Under Hood Lt.	Same as (F)	
W/S Wiper	SFE 20	
Cigar Ltr.	SFE 20	
Ind Lts.	Same as (F)	
Fuel Gauge	Same as (F)	
Brake Warn	Same as (F)	
Trunk Lt.	Same as (B)	
Courtesy Lt.	Same as (G)	
Heat Cont. Lt.	Same as (E)	
Heater	SFE 20	AGC 25 with A/C
Tach Feed	AGA 2	AGA 2

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

			32	35	36	38
Height above ground to center of bulb	Tail	Highest	25.61 (27.53 s.w.) *		25.53	29.97
	Stop		25.61 (27.53 s.w.) *		25.53	29.97
	Backup		14.53 (16.45 s.w.) *		14.53	22.95
	License, rear		19.17		19.17	19.02
	Directional	Front	16.33 (16.00 s.w.) *		16.33	16.57
		Rear	25.61 (27.53 s.w.) *		25.53	29.97
	Headlamp	Inside	26.35		26.35	26.59
		Outside*	26.03		26.03	26.27
Distance from C/L of car to center of bulb	Tail	Outside	33.55			
	Stop		33.55			
	Backup		14.60		14.60	23.85
	License, rear		On Center			
	Directionc	Front	27.05			
		Rear	33.55			
	Headlamp	Inside	23.56			
		Outside*	30.54			

* If single headlamps are used enter here.

* SW - Fiesta Models

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MODEL	32 - 35	36 - 38 - 39

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type			Long - 11 CF - Semi-centrifugal	N. A.
Type pressure plate springs			Coil	
Effective plate pressure (lb.)			2043 Static +505 at 2800 RPM Centrifugal	N. A.
No. of clutch driven discs			One	N. A.
Clutch facing	Material		Woven Asbestos	"
	Outside & inside dia.		11 x 7	"
	Total eff. area (sq.in.)		113	"
	Thickness		.137 Each Facing	"
	Engagement cushioning method		Torbend Plate	"
Release bearing	Type & method of lubrication		Ball - Lube Fitting	"
Torsional damping	Methods: springs, friction material		Coil Springs - Steel Friction	"

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard	None
Manual with overdrive (std. or opt.)	None	None
Automatic (std. or opt.)	Optional	Standard

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds			3	N. A.
Transmission ratios	In first		2.1527:1	
	In second		1.3725:1	
	In third		Direct	
	In fourth		---	
	In reverse		2.2793:1	
Synchronous meshing, specify gears			2 & 3	
Shift lever location			St. Col.	
Lubricant	Capacity (pt.)		2.5	
	Type recommended		Multipurpose	
	SAE viscosity number	Summer	80 or 90	
		Winter	80 or 90	
		Extreme cold	80 or 90	

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MODEL	32	35	36	38	39

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		Not Offered	
	Manual lockout (yes, no)			
	Downshift accelerator control (yes, no)			
	Minimum cut-in speed			
	Gear ratio			
	Lubricant: Capacity (pt.) (Overdrive only)			
	Lubricant: Separate filler (yes, no)			
	Lubricant: Type recommended			
	Lubricant: SAE viscosity number	Summer		
		Winter		
		Ext. cold		

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Hydra-matic
Type describe		4 Stage, Controlled Coupling with Accel-A-Rotor
Method of Selection (Lever, Push Button or other)		Lever
Selector Pattern		P Park; N Neutral; D Drive; S Super; L Low; R Reverse
List gear ratios Selector Pattern and Indicate which are used in each selector position		Drive & Super: 1st Stage = 3.32:1; 2nd Stage = 2.93:1; 3rd Stage = 1.56:1; 4th Stage = Direct. Low: 3.32:1; 2.93:1; Not Used; Not Used. Reverse: 3.11:1; 2.43:1
Max. upshift speeds—drive range		1-2 * 2 - 3 = 35 MPH; 3 - 4 = 78 MPH
Max. kickdown speeds—drive range		2-1 * 3 - 2 = 24 MPH; 4 - 3 = 68 MPH
Torque convertor	Number of elements	None
	Max. ratio at stall	None
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	11 Pints
	Type recommended	Type - A - Automatic Transmission Fluid with Suffix A
Special transmission features		* Accel-A-Rotor and Rear Unit Gears Produce Starting Ratio for 1st Stage. As the Car Speed Increases Accel-A-Rotor Effectiveness Diminishes Gradually.

DRIVE UNITS—PROPELLER SHAFT

Number used		One	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	3.38 x 58.00 x .065	None
	Overdrive transmission	None	
	Automatic transmission	3.00 x 58.00 x .065	3.25 x 61.00 x .065

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

(Continued)

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DRIVE UNITS—PROPELLER SHAFT (cont.)

			MODEL 32	35	36	38	39
Intermediate bearing	Type (plain, anti-friction)		Anti - friction				
	Lubrication (fitting, prepack)		Prepack				
Universal joints	Make		Saginaw Steering Gear & Spicer				
	Number used		Two				
	Type (ball and trunnion, cross, other)		Cross				
	Bearing	Type (plain, anti-friction)	Anti - friction				
		Lubric. (fitting, prepack)	Prepack				
Drive taken through (torque tube or arms, springs)			Arms				
Torque taken through (torque tube or arms, springs)			Arms				

DRIVE UNITS—REAR AXLE

Description (see instructions)			Banjo - Live - Hypoid - Semi-floating				
Limited Slip differential, type			Multiple Plate Clutch				
Drive Pinion Offset			1.75				
No. of differential pinions							
Gear ratios (Std. equip.)	Manual transmission		3.23:1	3.23:1	N.A.	N.A.	N.A.
	Overdrive transmission		None				
	Automatic transmission		2.56:1	2.87:1	3.42:1	3.08:1	3.42:1
Ring gear O.D. (std. ratio)			9.25				
Pinion adjustment (shim, other)			Shim				
Pinion bearing adj. (shim, other)			Coll. Spacer				
Wheel bearing type			Ball				
Lubricant	Capacity (pt.)		5.58				
	Type recommended		Multi-purpose				
	SAE viscosity number	Summer	90				
		Winter	90				
		Extreme cold	90				

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.56:1	2.69:1	2.87:1	3.08:1	3.23:1	3.42:1
No. of teeth	Pinion	16	16	15	13	13	12
	Ring gear	41	43	43	43	42	41

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MODEL	32	35	38

DRIVE UNITS—WHEELS

Type & material			Drop Center - Welded Wheels	
Rim (size and flange type)		Std.	14 x 6K	
		Opt.	14 x 6K	
Attachment	Type (bolt or stud)		Stud	
	Circle diameter		5.00	
	Number and size		5 x 1/2	

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.00 x 14	8.00 x 14 Ply	8.50 x 14
	Type - Nylon, etc.		Rayon	
Rev/mile at 50 mph.		755	755	755
Inflation press.(cold)	Front	22	22	22
	Rear	22	22	22
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.)			Moraine & Bendix (Integral)	
Effective area (sq. in.)*			156.8	
Gross lining area (sq. in.)**			191.7	
Swept drum area (sq. in.)***			310.0	
Percent brake effectiveness—front			56%	
Drum	Diameter	Front	11.0	
		Rear	11.0	
	Type and material		Centrifuse Cast Iron in Steel Shell	
Wheel cylinder bore	Front		1 1/8	
	Rear		1"	
Master cylinder bore			1" Manual	1" Power
Available pedal travel			5.50 Manual	3.82 Power
Line pressure at 100 lb. pedal load			750 PSI Manual	700 @ 50 lb. Pedal Load
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.

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MODEL	32	35	38

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Marshall 4641 Pri.
		Size (length x width x thickness)	Front wheel	12 x 2.50 x .25
			Rear wheel	12 x 2.00 x .25
		Segments per shoe		One
	Rear Shoe	Material		Marshall 9795 D
		Size (length x width x thickness)	Front wheel	9 x 2.50 x .25
			Rear wheel	9 x 2.00 x .25
		Segments per shoe		One

BRAKES—PARKING

Type of control		Suspended Pedal
Location of control		Left Driver's Compartment
Operates on		Rear Brakes
If separate from service brakes	Type (internal or external)	Not Separate
	Drum diameter	"
	Lining size (length x width x thickness)	"

FRAME or UNITIZED CONSTRUCTION

Type and description

Box Section Side Rails and
4 Cross Bars (Guard-Beam Frame)

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

Provision for car leveling		None
Provision for brake dip control		Counter Dive Design of Suspension
Provision for acc. squat control		Springs and Control Arms
Special provisions for car jacking		None
Shock absorber front & rear	Type	Direct Acting
	Make	Delco
	Piston dia.	1 Inch
Other special features		None

SUSPENSION—FRONT

Type and description	Independent Coil Spring

* 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.)

		32	35	38
Spring	Type	Independent Coil Spring		
	Material	SAE 9260		
	Size (coil design height & I.D.; bar length x dia.	(11" Design Height - 4.05 I.D. 155" Long .690 Dia.		(11" Design Height-4.05 I.D. 162" Long .700 Dia.
	Spring rate (lb. per in.)	335	335	335
	Rate at wheel (lb. per in.)	97.3		
	Design load (lb. @ design height)	2430 @ 11"	2430 @ 11"	2570 @ 11"
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	SAE 1070 - 1.093	1.093	1.125

STEERING

Mechanical (std., opt., NA)				Standard	
Power (std., opt., NA)				Optional	
Wheel diameter				16.00	16.00	16.00
Turning diameter	Outside front	Wall to wall (l. & r.)		45.3	45.3	47.5
		Curb to curb (l. & r.)		42.8	42.8	44.1
	Inside rear	Wall to wall (l. & r.)		26.7	26.7	28.4
		Curb to curb (l. & r.)		27.4	27.4	29.1
Outside wheel angle with inside wheel at 20°				Manual 18.1° Power 17.6°		
Mechanical	Gear	Type		Ball Nut		N.A.
		Make		Saginaw Steering Gear		"
		Ratios	Gear	24.0:1		"
			Overall	33.24:1		"
	No. wheel turns			6.1 (Lock to Lock)		"
Power	Type (coaxial, linkage, etc.)			Gear Integral		
	Make			Saginaw Steering Gear		
	Trade name			Roto-Matic		
	Gear	Type		Ball Nut		
		Ratios	Gear	17.5:1		
			Overall	21.77:1		
	Pump driven by			Belt from Crank		
	Number wheel turns			3.8 (Lock to Lock)		
Linkage	Type			Forged		
	Location (front or rear of wheels, other)			Rear		
	Drag link (trans. or longit.)			Transverse		
	Tie rods (one or two)			2		

(Continued)

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MODEL	32	35	38

STEERING (cont)

Steering Axis	Inclination at camber (deg.)		10° at + 1° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	"
		Thrust	"
Wheel alignment (range and preferred)	Caster (deg.)		Range 0 to 1° Negative
	Camber (deg.)		Range - 1/4° to + 3/4°
	Toe-in (outside tread-inches)		0 to .12
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.3748 - 1.3743
		Outer bearing	.8435 - .8430
	Thread size		13/16 - 20
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description				4 Link Coil Spring	
Drive and torq. taken through (see page 17)				Arms	
Spring	Type			Coil	
	Material			SAE # 5160 or 9260	
	Size (length x width, coil design height and I.D.; bar length & dia.)			(9.00 Design Height - 5.50 I. D.) 137" Long .568 Dia.	(9.00 Design Height-5.50 I. D) 148" Long .580 Dia.
	Spring rate (lb. per in.)			100	
	Rate at wheel (lb. per in.)			105.6	
	Design load (lb. at design height)			1040 @ 9"	1040 @ 9" 1100 @ 9"
	Mounting Insulation type			Rubber	
	If leaf	No. of leaves		-	
		Inserts	Type and size	-	
			Material	-	
		Shackle (comp. or tens.)		-	
Stabilizer	Type (link, linkless, frameless)			None	
	Material			None	
Track bar type				None	

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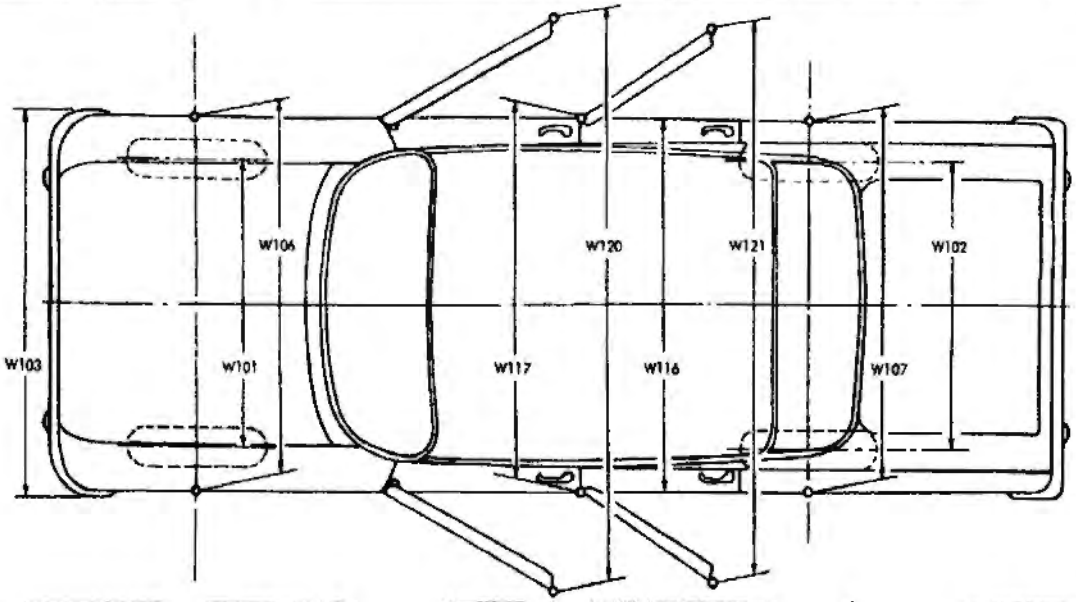
CAR AND BODY DIMENSIONS—GENERAL

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.	3239	3247	3267	3269	3235-45	3539	3547	3569	3535
Tread – front	W101	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
Tread – rear	W102	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
Maximum overall car width	W103	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
Maximum overall body width	W116	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
Maximum body width at #2 pillar	W117	75.4	-	-	75.4	75.4	75.4	-	75.4	75.4
Front fender overall width	W106	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7	77.7
Rear fender overall width	W107	77.9	77.9	77.9	77.9	77.5	77.9	77.9	77.9	77.5
Maximum overall car width – front doors open	W120a	141.8	155.9	141.8	141.8	141.8	141.7	155.9	141.7	141.8
Maximum overall car width – rear doors open	W121a	139.3	-	-	139.3	139.3	139.3	-	139.3	139.3

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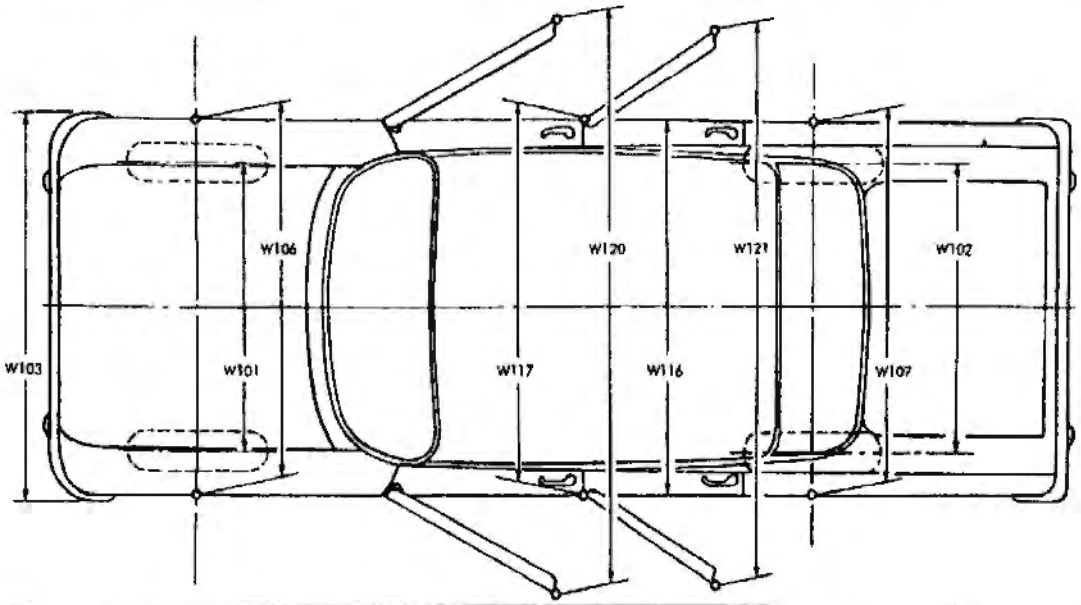
CAR AND BODY DIMENSIONS—GENERAL

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

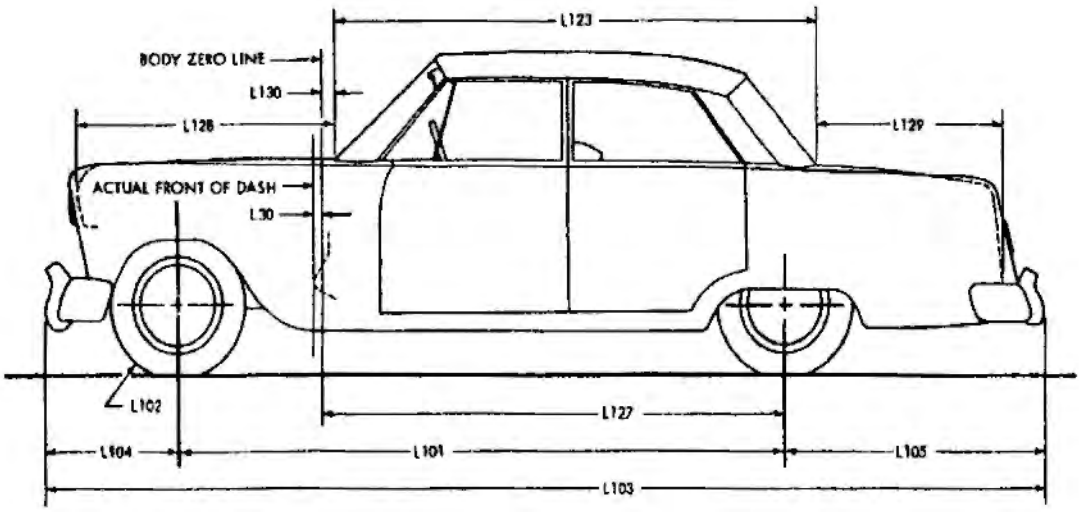


MODEL	Ref. No.	3657	3667	3819	3829	3839	3847	3867	3947
Tread - front	W101	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
Tread - rear	W102	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
Maximum overall car width	W103	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
Maximum overall body width	W116	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
Maximum body width at #2 pillar	W117	-	-	75.4	75.4	75.4	-	-	-
Front fender overall width	W106	77.7	77.7	77.6	77.6	77.6	77.6	77.6	77.6
Rear fender overall width	W107	77.9	77.9	77.8	77.8	77.8	77.8	77.8	77.8
Maximum overall car width - front doors open	W120a	158.1	158.1	141.7	141.7	155.9	155.9	155.9	155.9
Maximum overall car width - rear doors open	W121a	-	-	145.8	145.8	-	-	-	-

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED(*)

EXTERIOR LENGTH DIMENSIONS

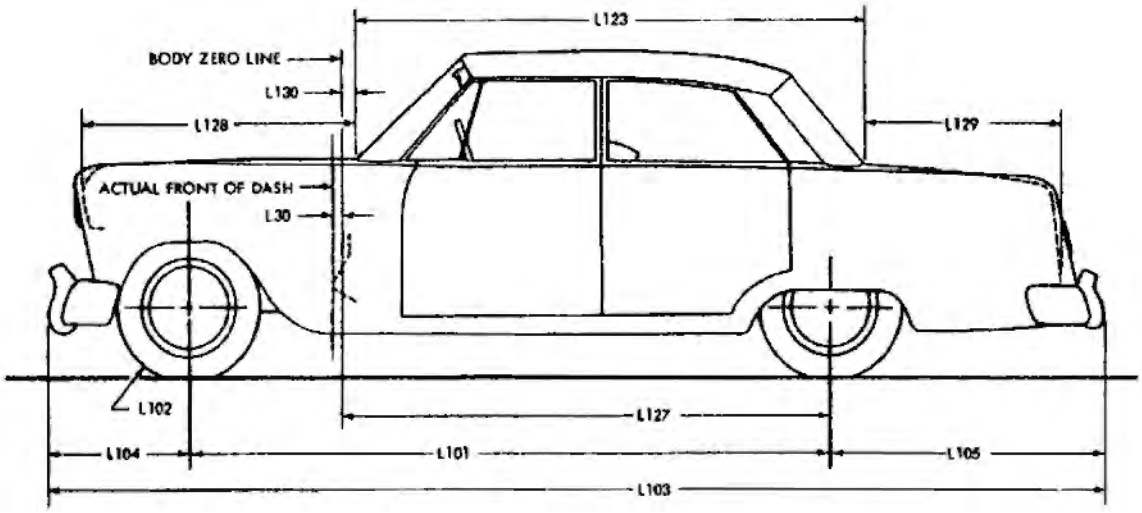


MODEL	Ref. No.	3239	3247	3267	3269	3235-45	3539	3547	3569	3535
Body zero line to actual front of dash	L30	.54	.54	.54	.54	.54	.54	.54	.54	.54
Wheelbase	L101	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0	123.0
Overhang - front	L104	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Overhang - rear	L105	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8	56.8
Overall length	L103	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5	214.5
Hood length at car centerline	L128a	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
Body upper structure length at car centerline	L123	106.2	103.4	105.8	103.6	140.7	106.2	103.4	103.6	140.7
Deck length at car centerline	L129a	46.6	49.3	46.9	49.2	N.A.	46.6	49.3	49.2	N.A.
Body zero line to centerline of rear wheels	L127	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8
Body zero line to windshield cowl point	L130a	3.8	3.9	3.9	3.8	4.4	3.8	3.9	3.8	4.4
Tire size	L102	800 x 14	800 x 14	800 x 14	800 x 14	800 x 14	800 x 14	800 x 14	800 x 14	800 x 14

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED(*)

EXTERIOR LENGTH DIMENSIONS

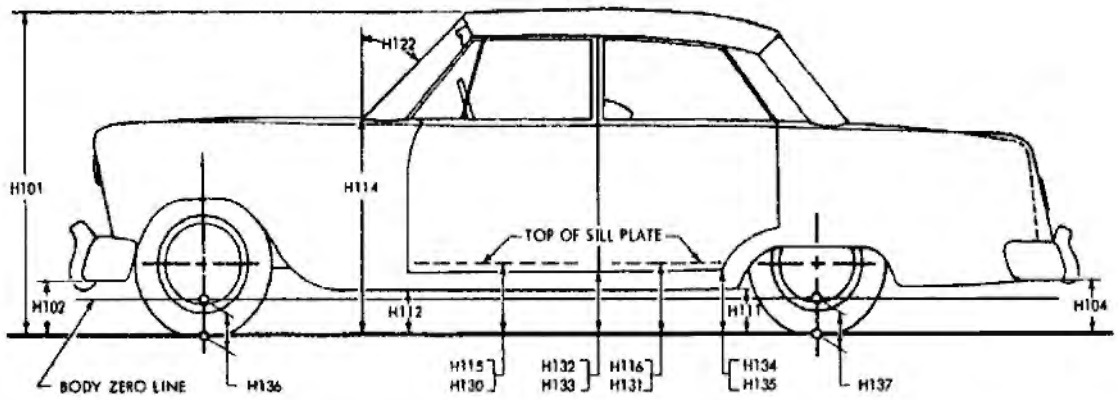


MODEL	Ref. No.	3657	3667	3819	3829	3839	3847	3867	3947
Body zero line to actual front of dash	L30	.54	.54	.54	.54	.54	.54	.54	.54
Wheelbase	L101	123.0	123.0	126.0	126.0	126.0	126.0	126.0	126.0
Overhang - front	L104	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
Overhang - rear	L105	56.8	56.8	61.0	61.0	61.0	61.0	61.0	61.0
Overall length	L103	214.5	214.5	221.7	221.7	221.7	221.7	221.7	221.7
Hood length at car centerline	L128a	54.4	54.4	54.4	54.4	54.4	54.4	54.4	54.4
Body upper structure length at car centerline	L123	103.0	105.8	112.5	112.5	108.8	108.8	108.9	108.8
Deck length at car centerline	L129a	49.9	46.9	46.7	46.7	50.3	50.2	50.2	50.2
Body zero line to centerline of rear wheels	L127	101.8	101.8	104.8	104.8	104.8	104.8	104.8	104.8
Body zero line to windshield cowl point	L130a	3.7	3.9	3.8	3.8	3.9	3.9	3.9	3.9
Tire size	L102	800 x 14	850 x 14	850 x 14	850 x 14	850 x 14	850 x 14	850 x 14	850 x 14

AMA Specifications– Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED (e)

EXTERIOR HEIGHT DIMENSIONS

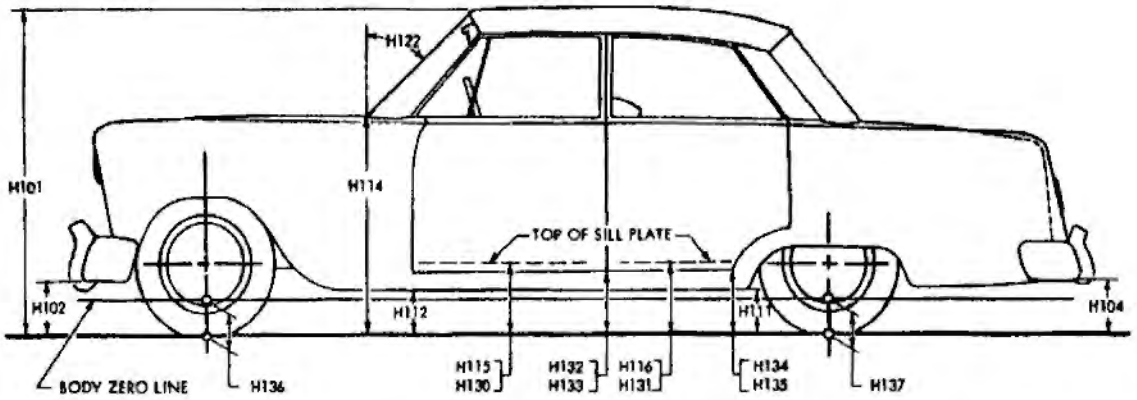


MODEL	Ref. No.	3239	3247	3267	3269	3235-45	3539	3547	3569	3535
Overall height	H101	55.6	55.2	55.9	56.3	58.1	55.6	55.2	56.3	58.1
Hood at rear to ground	H114	38.4	38.4	38.4	38.4	38.6	38.4	38.4	38.4	38.6
Rocker panel to ground - front	H112a	9.1	9.1	9.1	9.1	9.5	9.1	9.1	9.1	9.5
Rocker panel to ground - rear	H111	8.7	8.7	8.7	8.7	9.8	8.7	8.7	8.7	9.8
Step height - front (design load)	H115	13.9	13.8	13.8	13.9	14.2	13.9	13.8	13.9	14.2
Step height - rear (design load)	H116	13.7	-	-	13.7	14.7	13.7	-	13.7	14.7
Step height - front (curb load)	H130	15.8	15.8	15.8	15.8	15.7	15.8	15.8	15.8	15.7
Step height - rear (curb load)	H131	16.0	-	-	16.0	16.2	16.0	-	16.0	16.2
Bottom of door to ground, open - front	H132	13.4	13.5	13.5	13.4	13.9	13.4	13.5	13.4	13.9
Bottom of door to ground, closed - front	H133	12.3	12.2	12.2	12.3	13.0	12.3	12.2	12.3	13.0
Bottom of door to ground, open - rear	H134	12.0	-	-	12.0	13.2	12.0	-	12.0	13.2
Bottom of door to ground, closed - rear	H135	12.0	-	-	12.0	12.9	12.0	-	12.0	12.9
Front bumper to ground	H102	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Rear bumper to ground	H104	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
Windshield slope angle	H122	57.5°	54.5°	54.5°	55°	54.5°	57.5°	54.5°	55°	54.5°
Body zero to ground - front	H136a	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53	5.53
Body zero to ground - rear	H137a	5.53	5.53	5.53	5.53	6.78	5.53	5.53	5.53	6.78

AMA Specifications– Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED (e)

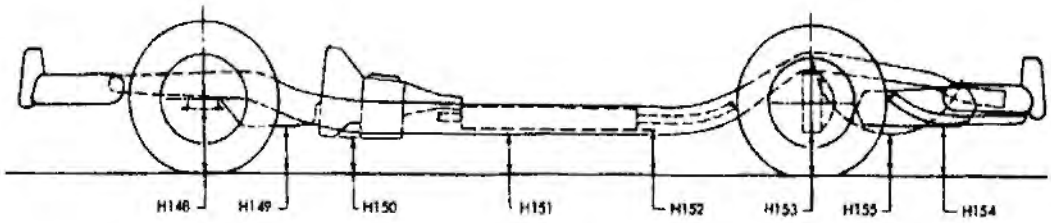
EXTERIOR HEIGHT DIMENSIONS

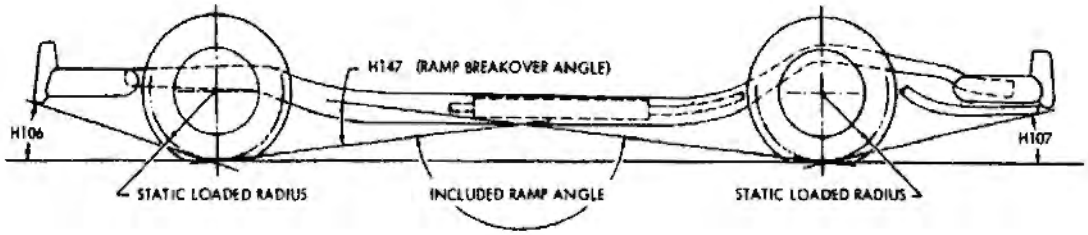


MODEL	Ref. No.	3657	3667	3819	3829	3839	3847	3867	3947
Overall height	H101	55.0	55.9	57.1	57.1	55.1	55.1	55.8	55.1
Hood at rear to ground	H114	38.6	38.6	38.6	38.6	38.6	38.6	38.6	38.6
Rocker panel to ground - front	H112a	9.1	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Rocker panel to ground - rear	H111	8.7	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Step height - front (design load)	H115	13.8	14.1	14.1	14.1	14.1	14.1	14.1	14.1
Step height - rear (design load)	H116	-	-	13.9	13.9	13.9	-	-	-
Step height - front (curb load)	H130	15.8	16.0	16.1	16.1	16.1	16.0	16.0	16.0
Step height - rear (curb load)	H131	-	-	16.2	16.2	16.2	-	-	-
Bottom of door to ground, open - front	H132	13.5	13.5	13.1	13.1	13.1	13.8	13.8	13.8
Bottom of door to ground, closed - front	H133	12.2	12.2	12.0	12.0	12.0	12.4	12.4	12.4
Bottom of door to ground, open - rear	H134	-	-	11.7	11.8	11.8	-	-	-
Bottom of door to ground, closed - rear	H135	-	-	11.8	11.8	11.8	-	-	-
Front bumper to ground	H102	12.0	12.0	12.2	12.2	12.2	12.2	12.2	12.2
Rear bumper to ground	H104	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
Windshield slope angle	H122	57.5°	54.5°	56°	56°	55°	55°	54.5°	55°
Body zero to ground - front	H136a	5.53	5.53	5.77	5.77	5.77	5.77	5.77	5.77
Body zero to ground - rear	H137a	5.53	5.53	5.77	5.77	5.77	5.77	5.77	5.77

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED(•)

GROUND CLEARANCE DIMENSIONS



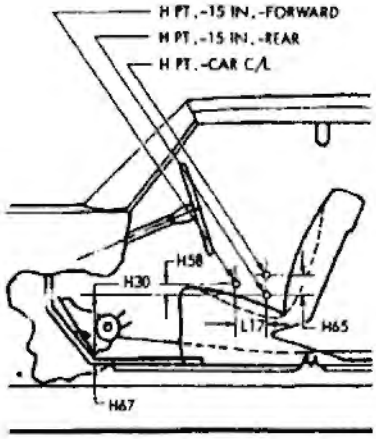


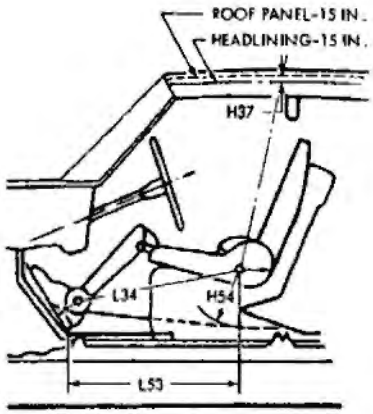
MODEL	Ref. No.	3200	3235-45	3500	3535	38	
Angle of approach	H106	25° 51'	25° 19'	25 °51'	25° 19'	60°18'	
Angle of departure	H107	13° 14'	14 °50'	13° 14'	14° 50'	12 °42'	
Ramp breakover angle	H147	11° 45'	13 °18'	11° 45'	13° 18 '	11 °36'	
Front suspension to ground	H148	6.69	6.75	6.69	6.75	6.93	
Oil pan to ground	H149	6.01	6.13	6.01	6.13	6.24	
Flywheel housing to ground	H150	6.15	6.39	6.15	6.39	6.39	
Frame structure to ground	H151	5.93	5.93	5.93	5.93	6.17	
Exhaust system to ground	H152	6.11	6.83	6.11	6.83	6.23	
Rear axle differential to ground	H153	6.53	6.53	6.53	6.53	6.77	
Fuel tank to ground	H154	7.72	8.30	7.72	8.30	7.96	
Spare tire well to ground	H155	-	9.21	-	-	-	
Minimum running ground clearance	H156	5.93	5.93	5.93	5.93	6.17	

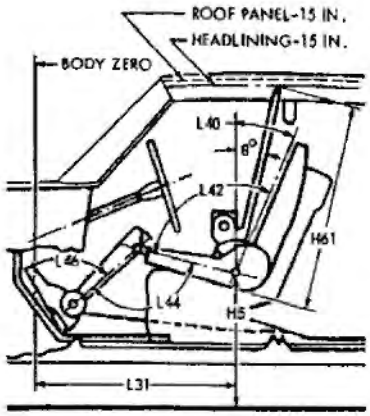
AMA Specifications–Passenger Car

MAKE OF CAR Oldsmobile **MODEL YEAR** 1963 **DATE ISSUED** 9-1-62 **REVISED** (•)

FRONT COMPARTMENT DIMENSIONS





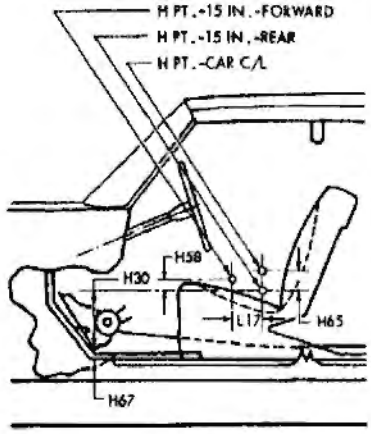


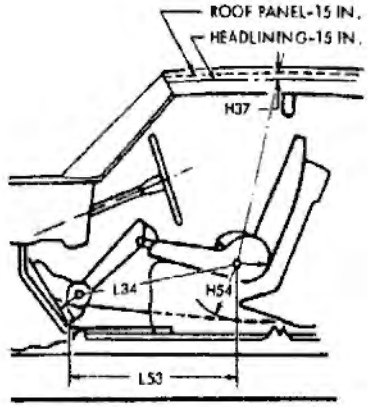
MODEL	Ref. No.	3239	3247	3267	3269	3235-45	3539	3547	3569
H Point to body zero line	L31a	41.2	41.3	41.3	41.2	41.2	41.2	41.3	41.2
H Point to ground	H5a	21.1	21.0	21.0	21.1	21.7	21.1	21.0	21.1
Effective head room	H61a	38.0	37.6	38.6	38.8	39.0	38.0	37.6	38.8
Headlining to roof height	H37	.50	.50	0	.50	.70	.50	.50	.50
Maximum effective leg room - accelerator	L34a	40.6	40.6	40.6	40.6	40.6	40.6	40.6	40.6
H Point to heel point	H30a	9.5	9.6	9.6	9.5	9.5	9.5	9.6	9.5
Depressed floor covering thickness	H67a	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.
Back angle	L40a	30°	28°	28°	30°	30°	30°	28°	30°
Hip angle	L42a	107°	106°	106°	107°	107°	107°	106°	107°
Knee angle	L44a	140°	139°	139°	140°	140°	140°	139°	140°
Foot angle	L46a	111°	117°	117°	111°	111°	111°	117°	111°
H Point differential, side to center	H65a	.30	.30	.30	.30	.30	.30	.30	.30
H Point to tunnel	H54a	7.5	7.4	7.4	7.5	7.5	7.5	7.4	7.5
H Point to accelerator floor point	L53a	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
H Point travel	L17a	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
H Point rise	H58a	.70	.70	.70	.70	.70	.70	.70	.70

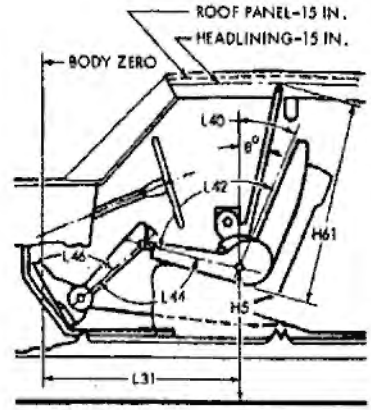
AMA Specifications–Passenger Car

MAKE OF CAR Oldsmobile **MODEL YEAR** 1963 **DATE ISSUED** 9-1-62 **REVISED** (e)

FRONT COMPARTMENT DIMENSIONS





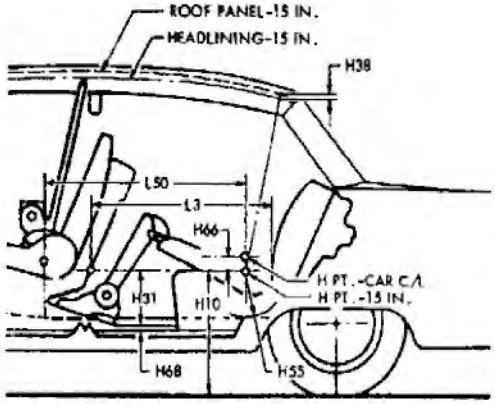


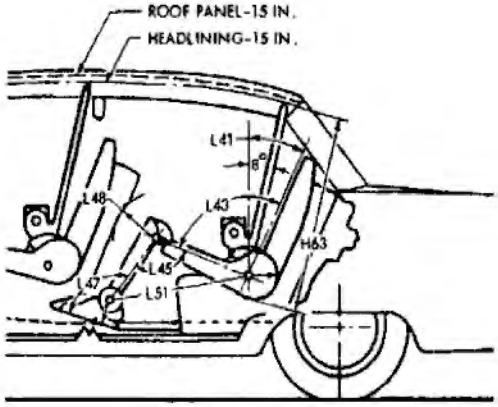
MODEL	Ref. No.	3535	3657	3667	3819	3829	3839	3847	3867	3947
H Point to body zero line	L31a	41.2	42.2	42.2	41.7	41.7	41.7	41.2	41.2	41.2
H Point to ground	H5a	21.7	20.6	20.8	20.5	20.5	20.5	20.7	20.7	20.9
Effective head room	H61a	39.0	37.6	39.1	40.0	40.0	38.6	38.4	39.3	38.2
Headlining to roof height	H37	.70	.80	0	.50	.50	.50	.50	0	.50
Maximum effective leg room - accelerator	L34a	40.6	41.5	41.5	41.1	41.1	41.1	40.5	40.5	41.6
H Point to heel point	H30a	9.5	9.1	9.1	8.8	8.8	8.8	9.1	9.1	9.2
Depressed floor covering thickness	H67a	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.
Back angle	L40a	30°	26°	26°	24°	24°	24°	25°	25°	26°
Hip angle	L42a	107°	103°	103°	98°	98°	98°	98°	98°	103°
Knee angle	L44a	140°	142°	142°	137°	137°	137°	132°	132°	141°
Foot angle	L46a	111°	125°	125°	124°	124°	124°	121°	121°	126°
H Point differential, side to center	H65a	.30	-	-	.20	.20	.20	.40	.40	-
H Point to tunnel	H54a	7.5	-	-	6.6	6.6	6.6	7.1	7.1	-
H Point to accelerator floor point	L53a	33.0	33.8	33.8	33.5	33.5	33.5	32.9	32.9	34.0
H Point travel	L17a	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
H Point rise	H58a	.70	.60	.60	.70	.70	.70	.70	.70	.60

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile **MODEL YEAR** 1963 **DATE ISSUED** 9-1-62 **REVISED(•)** _____

REAR COMPARTMENT DIMENSIONS



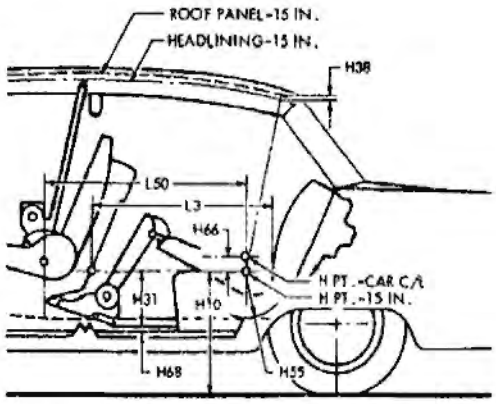


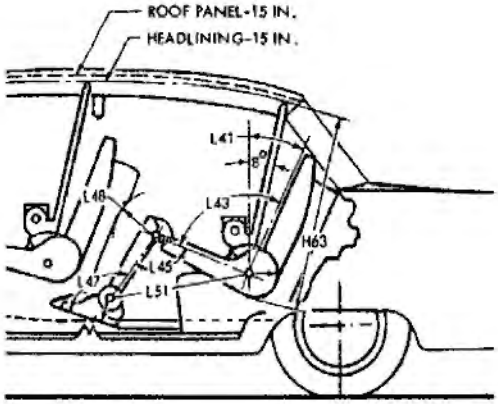
MODEL	Ref. No.	3239	3247	3267	3269	3235-45	3539	3547	3569	3535
H Point couple distance	L50a	35.1	34.2	33.7	36.1	35.3	35.1	34.2	36.1	35.3
H Point to ground	H10a	20.1	18.9	18.9	20.3	22.3	20.1	18.9	20.3	22.3
Effective head room	H63a	37.3	38.0	38.0	37.6	38.7	37.3	38.0	37.6	38.7
Headlining to roof height	H38	.60	.40	0	1.0	.70	.60	.50	1.0	.70
Minimum effective leg room	L51a	37.4	35.7	35.2	38.7	38.0	37.4	35.7	38.7	38.0
H Point to heel point	H31a	11.1	10.1	10.1	11.3	13.2	11.1	10.0	11.3	13.2
Depressed floor covering thickness	H68a	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Minimum knee room	L48a	4.3	4.0	3.7	5.2	4.2	4.3	4.0	5.2	4.2
Rear compartment room	L3	27.6	26.6	26.2	28.4	29.2	27.6	26.5	28.2	29.2
Back angle	L41a	24°	18°	18°	25°	24°	24°	18°	25°	24°
Hip angle	L43a	90°	78°	77°	94°	94°	90°	78°	94°	94°
Knee angle	L45a	104°	95°	93°	111°	107°	104°	95°	111°	107°
Foot angle	L47a	123°	122°	121°	127°	122°	123°	122°	127°	122°
H Point differential, side to center	H66a	1.0	1.3	1.1	.70	.70	1.0	1.3	.70	.70
H Point to tunnel	H55a	6.2	5.3	5.1	6.0	7.0	6.2	5.3	6.0	7.0

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile **MODEL YEAR** 1963 **DATE ISSUED** 9-1-62 **REVISED(•)**

REAR COMPARTMENT DIMENSIONS



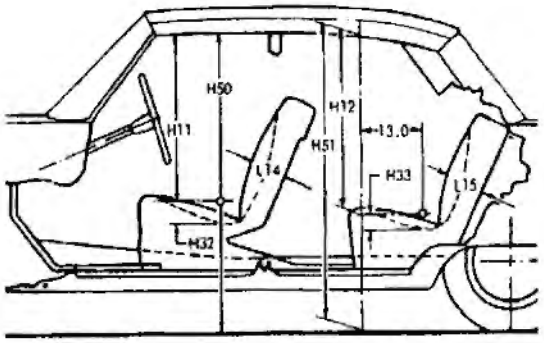


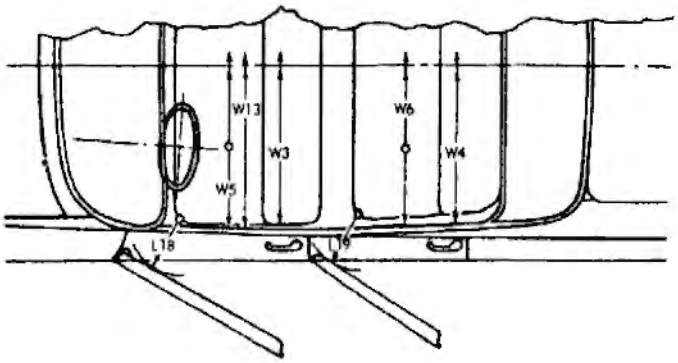
MODEL	Ref. No.	3657	3667	3819	3829	3839	3847	3867	3947
H Point couple distance	L50a	33.3	32.8	38.7	38.7	36.4	37.0	37.0	36.0
H Point to ground	H10a	18.9	18.9	20.4	20.4	19.3	19.4	19.2	19.4
Effective head room	H63a	38.1	38.0	38.7	38.7	38.1	38.0	37.9	38.0
Headlining to roof height	H38	.80	0	.50	.50	.40	.50	0	.50
Minimum effective leg room	L51a	35.8	35.4	41.1	41.1	39.6	39.0	38.9	38.8
H Point to heel point	H31a	9.6	9.5	11.2	11.2	10.1	10.2	10.0	10.2
Depressed floor covering thickness	H68a	N.A.	N.A	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
Minimum knee room	L48a	4.2	3.9	8.3	8.3	6.4	6.4	6.4	6.5
Rear compartment room	L3	26.3	26.1	31.5	31.5	29.4	29.6	29.1	29.3
Back angle	L41a	18°	18°	25°	25°	20°	20°	20°	20°
Hip angle	L43a	78°	77°	100°	100°	89°	87°	87°	87°
Knee angle	L45a	96°	94°	127°	127°	116°	113°	113°	112°
Foot angle	L47a	125°	124°	132°	132°	131°	131°	131°	131°
H Point differential, side to center	H66a	1.3	1.1	.80	.80	1.1	1.4	1.2	1.4
H Point to tunnel	H55a	5.3	5.1	5.9	5.9	5.3	5.6	5.2	5.6

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED(*)

SEAT AND ENTRANCE DIMENSIONS



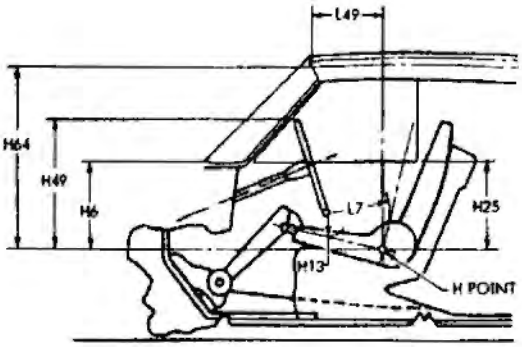


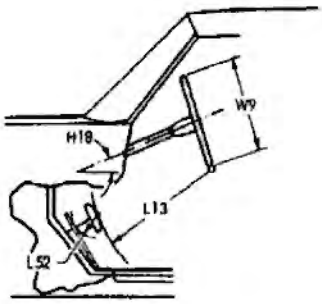
MODEL	Ref. No.	3239	3247	3267	3269	3235-45	3539	3547	3569	3535
Shoulder room – front	W3a	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.9	58.9
Hip room – front	W5a	63.3	63.4	63.4	63.3	63.3	63.1	63.0	63.1	63.1
Seat width – front	W16a	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
Upper body opening to ground – front	H50a	50.9	49.7	49.3	50.7	51.3	50.9	49.7	50.7	51.3
Entrance height – front	H11a	29.8	28.6	28.2	29.6	29.6	29.8	28.6	29.6	29.6
Entrance foot clearance – front	L18	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
Seat cushion deflection – front	H32a	3.9	3.9	3.9	3.9	3.9	3.9	3.4	3.9	3.9
Seat back thickness – front	L14	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5
Shoulder room – rear	W4a	57.9	57.7	51.5	57.9	57.9	57.9	57.5	58.0	57.9
Hip room – rear	W6a	63.5	55.2	51.6	63.4	63.3	63.5	55.2	63.0	63.3
Upper body opening to ground – rear	H51a	53.3	-	-	50.4	51.3	54.3	-	50.4	51.3
Entrance height – rear	H12a	30.2	-	-	30.2	29.0	30.2	-	30.2	29.0
Entrance foot clearance – rear	L19	11.6	10.1	10.1	11.7	14.4	11.5	10.3	11.7	14.4
Seat cushion deflection – rear	H33a	4.3	4.3	4.6	3.4	1.9	4.3	4.4	4.1	1.9
Seat back thickness – rear	L15	8.1	7.3	7.6	7.7	5.5	8.1	7.3	7.7	5.5

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile **MODEL YEAR** 1963 **DATE ISSUED** 9-1-62 **REVISED(•)**

VISION AND CONTROL DIMENSIONS



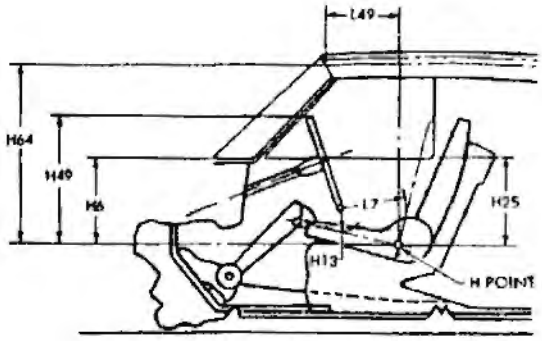


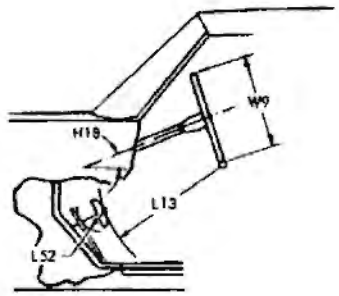
MODEL	Ref. No.	3239	3247	3267	3269	3235-45	3539	3547	3569	3535
H Point to windshield bottom DLO	H6a	18.5	18.6	18.6	18.5	18.5	18.5	18.6	18.5	18.5
H Point to windshield upper DLO	H64a	30.6	31.4	31.3	32.4	32.4	30.6	31.4	32.4	32.4
H Point to windshield upper DLO	L49a	13.7	12.9	12.9	10.7	10.7	13.7	12.9	10.7	10.7
Belt height – front	H25a	16.3	16.4	16.4	16.3	16.3	16.3	16.4	16.3	16.3
Steering wheel center to centerline of car	W7	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Steering wheel maximum outside diameter	W9	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
Steering column angle – horizontal	H18	28°	28°	28°	28°	28°	28°	28°	28°	28°
H Point to top of steering wheel	H49a	22.5	22.6	22.6	22.5	22.5	22.5	22.6	22.5	22.5
Steering wheel torso clearance	L7a	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5
Steering wheel thigh clearance	H13a	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4
Brake pedal knee clearance	L13	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
Brake pedal to accelerator	L52a	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7	-4.7
Tumble-home	W122a	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED(e)

VISION AND CONTROL DIMENSIONS





MODEL	Ref. No.	3657	3667	3819	3829	3839	3847	3867	3947
H Point to windshield bottom DLO	H6a	19.0	19.0	19.3	19.3	19.3	19.1	19.1	19.0
H Point to windshield upper DLO	H64a	31.0	31.7	33.4	33.4	32.1	31.9	31.8	31.7
H Point to windshield upper DLO	L49a	14.6	13.8	11.2	11.2	13.3	12.8	12.8	13.8
Belt height - front	H25a	16.8	16.8	17.2	17.2	17.2	16.9	16.9	16.8
Steering wheel center to centerline of car	W7	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Steering wheel maximum outside diameter	W9	17.0	17.0	16.0	16.0	16.0	16.0	16.0	16.0
Steering column angle - horizontal	H18	28°	28°	28°	28°	28°	28°	28°	28°
H Point to top of steering wheel	H49a	22.9	22.9	22.9	22.9	22.9	22.6	22.6	22.5
Steering wheel torso clearance	L7a	11.4	11.4	11.4	11.4	11.4	10.9	10.9	11.8
Steering wheel thigh clearance	H13a	5.5	5.5	5.9	5.9	5.9	5.4	5.4	5.8
Brake pedal knee clearance	L13	24.2	24.2	27.5	27.5	27.5	27.5	27.5	27.5.
Brake pedal to accelerator	L52a	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5	-1.5
Tumble-home	W122a	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°	11.8°

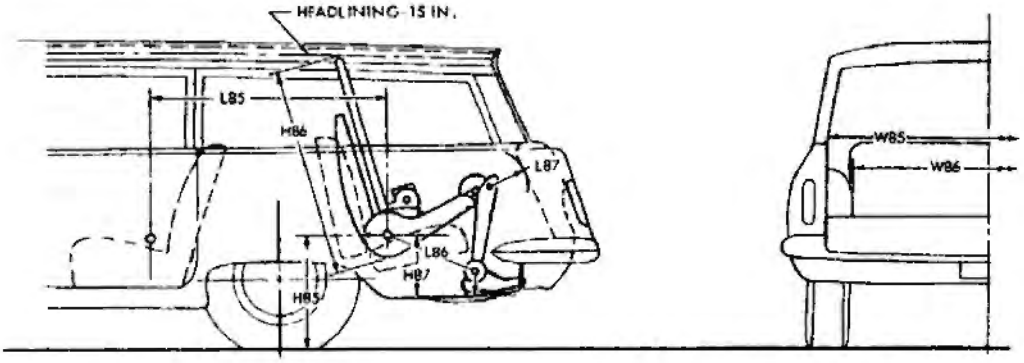
AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED(•)

LUGGAGE COMPARTMENT

MODEL	Ref. No.	32	35	38	39
Usable luggage capacity (See instructions)		17.1		19.7	
Liftover height*	H301a	27.7		21.9	
Position of spare tire storage		On Shelf on all except Conv. & S.W. that are in Well of Trunk			
Method of holding lid open		Counter Balance Torsion Bar			

THIRD SEAT DIMENSIONS



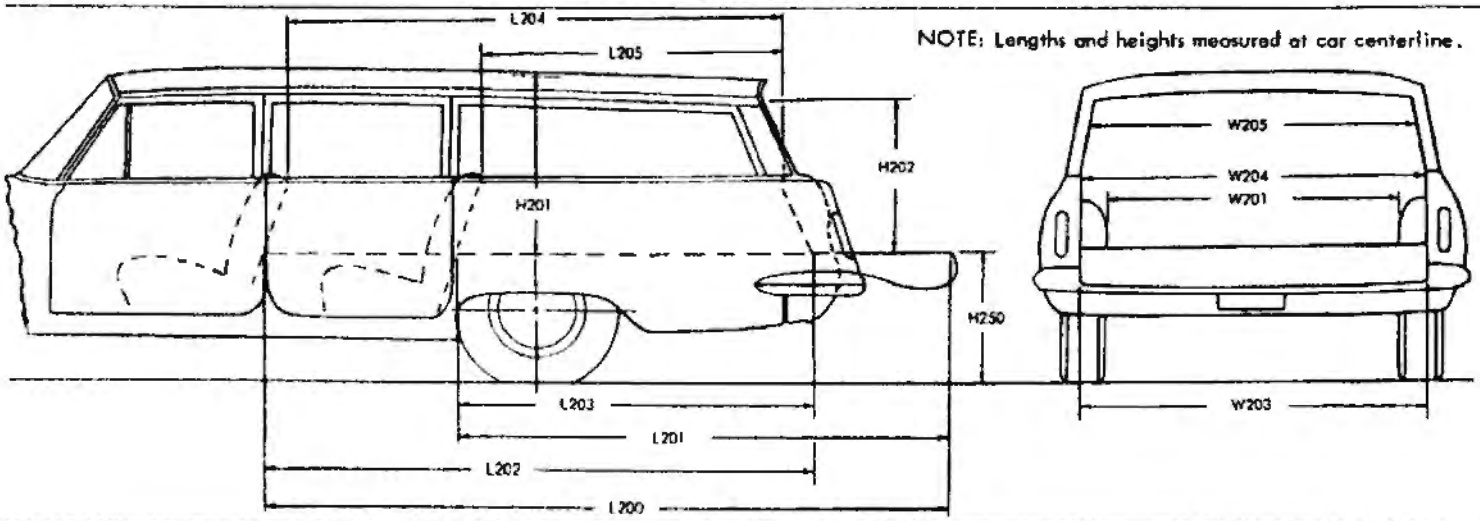
MODEL	Ref. No.	3245
Seat facing direction		Back
Shoulder room	W85a	49.2
Hip room	W86a	37.4
H Point couple distance	L85a	43.1
H Point to ground	H85a	22.6
Effective head room	H86a	38.6
Effective leg room	L86a	29.2
H Point to heel point	H87a	12.0
Knee room	L87a	8.2
Back angle	L88a	21°
Hip angle	L89a	79°
Knee angle	L90a	67°
Foot angle	L91a	98°

* Vertical dimension from luggage compartment lower opening to ground.

AMA Specifications–Passenger Car

MAKE OF CAR Oldsmobile **MODEL YEAR** 1963 **DATE ISSUED** 9-1-62 **REVISED**(*)

STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Lengths and heights measured at car centerline.

MODEL	Ref. No.	3235	3245	3535
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	124.1	124.1	124.1
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	89.5	89.5	89.5
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.6	92.6	92.6
Floor length from back of second seat at floor level to inside of closed tail gate	L203	58.1	58.1	58.1
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	82.8	82.8	82.8
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	46.2	46.2	46.2
Maximum width of cargo space at floor - specify location	W200o	62.1	62.1	62.1
Minimum distance between wheel houses at floor level	W201	48.5	48.5	48.5
Rear end opening width at floor	W203	54.4	48.8	54.4
Rear end opening width at belt	W204	54.7	54.7	54.7
Maximum width of rear opening above belt	W205	54.2	54.2	54.2
Maximum height - floor covering to headlining at centerline of rear axle	H201	31.2	31.2	31.2
Maximum height of rear opening - tail and lift gates open	H202	30.4	30.4	30.4
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250	29.5	29.5	29.5
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)		Drop Tail Gate		
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$		86.6	86.6	86.6

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED (e)

MODEL

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Lacquer
Hood hinge location (front, rear)		Rear
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle (Serial) No. Location		L. H. Front Pillar Post
Engine No. Location		None
Theft protection - type		Key Type Starting
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	None
Seat cushion type	Front	Zig Zag
	Rear	" "
Seat back type	Front	" "
	Rear	" "
Windshield type (single curved, compound curved, other)		Compound Curve
Rear window type (flat, curved, one piece, three piece)		Curved - One Piece
Side glass type (curved, flat)		Flat
Side glass exposed surface area		See Below "A"
Windshield glass exposed surface area		" " "B"
Backlight glass exposed surface area		" " "C"
Total glass exposed surface area		" " "D"

		3200	3500	3600	3800	3900
4 Door Sedan	(A)	1338.4	1338.4		1221.1	
	(B)	1654.2	1654.2		1654.2	
	(C)	1425.5	1425.5		1800.9	
	(D)	4418.1	4418.1		4676.2	
4 Door Hardtop Sedan (4) Window	(A)	1464.8	1464.8		1442.8	
	(B)	1468.0	1468.0		1522.6	
	(C)	1299.9	1299.9		1289.4	
	(D)	4232.7	4232.7		4254.8	
4 Door Hardtop Sedan (6) Window	(A)				1897.3	
	(B)				1654.2	
	(C)				1221.1	
	(D)				4772.6	
2 Door Hardtop Coupe	(A)	1336.8	1336.8	1401.2	1449.6	1449.6
	(B)	1522.6	1522.6	1468.0	1522.6	1522.6
	(C)	994.7	994.7	1336.4	1289.4	1289.4
	(D)	3854.1	3854.1	4205.6	4261.6	4261.6
2 Door Convertible	(A)	1208.6		1208.6	1285.6	
	(B)	1522.6		1522.6	1522.6	
	(C)	1350.0		1350.0	1350.0	
	(D)	4081.2		4081.2	4158.2	
Station Wagon	(A)	2856.2	2856.2			
	(B)	1654.2	1654.2			
	(C)	991.0	991.0			
	(D)	5501.4	5501.4			

AMA Specifications – Passenger Car

MAKE OF CAR Oldsmobile MODEL YEAR 1963 DATE ISSUED 9-1-62 REVISED (*)

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 3269	2317	1855	4172					4002
3239	2341	1882	4223					4053
3247	2312	1823	4135					3965
3235	2217	2311	4528					4358
3245	2206	2362	4568					4398
3267	2379	1906	4285					4115
3569	2339	1863	4202					4032
3539	2363	1904	4267					4097
3547	2319	1843	4162					3992
3535	2221	2335	4556					4386
3657	2418	1925	4343					4173
3667	2480	2012	4492					4322
3819	2437	1976	4413					4243
3829	2470	2039	4509					4339
3839	2450	2044	4494					4324
3847	2434	1953	4387					4217
3867	2452	1997	4449					4279
3947	2458	2011	4469					4299

Accessories & Equipment Differential Weights				Remarks
Hydra-Matic Transmission	10.89	4.46	15.35	
Power Steering	33.66	2.77	36.43	
Power Brakes	5.84	2.06	7.90	
Deluxe Radio	6.49	2.65	9.14	
Electric 4 Window Lift	7.78	11.67	19.45	
Electric 6 Way Seat	10.99	10.57	21.56	
Air Conditioning	130.82	4.06	134.88	
Dual Exhaust	13.82	25.68	39.50	
Wheel Disc	5.51	5.52	11.03	
Luggage Carrier	10.60	10.60	21.20	

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

DIMENSION DEFINITIONS

W3a SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W4a SHOULDER ROOM - REAR. Measured in the same manner as W3a.

W5a HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.

W6a HIP ROOM - REAR. Measured in the same manner as W5a.

W7 STEERING WHEEL CENTER TO CENTERLINE OF CAR. Measured horizontally from steering wheel center to centerline of car. The point at steering wheel center is located in the surface plane of wheel.

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

W16a SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.

W85a SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3a.

W86a HIP ROOM - THIRD SEAT. Measured in the same manner as W5a.

W101 TREAD - FRONT. Measured at centerline of tires, with nominal camber, at ground.

W102 TREAD - REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions.

W106 FRONT FENDER OVERALL WIDTH. Measured at centerline of front wheels, excluding moldings.

W107 REAR FENDER OVERALL WIDTH. Measured at centerline of rear wheels, excluding moldings.

W116 MAXIMUM OVERALL BODY WIDTH. Measured across body, excluding hardware and applied moldings, but including fenders when integral with body.

W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

W120a MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.

W121a MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120a.

W122a TUMBLE-HOME. The angle from vertical to the front door glass outer surface or the chord of a curved door glass, measured at the front H Point station.

L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at a height tangent to the top of rear seat cushion.

L7a STEERING WHEEL TORSO CLEARANCE. The minimum distance from the back edge of steering wheel, in straight-ahead position, to the Torso Line.

L13 BRAKE PEDAL KNEE CLEARANCE. The minimum dimension from the lower edge of the steering wheel to the brake pedal face centerline.

L14 SEAT BACK THICKNESS - FRONT. The maximum thickness of the seat back, excluding bolsters.

L15 SEAT BACK THICKNESS - REAR. Measured in the same manner as L14.

L17a H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

L18 ENTRANCE FOOT CLEARANCE - FRONT. The minimum horizontal dimension between seat and normal line of door or pillar at a height between the sill plate bead and 4.0 inches above the bead. Door should be in the maximum hold-open position.

L19 ENTRANCE FOOT CLEARANCE - REAR. Measured in the same manner as L18 on four-door models. On two-door styles, the minimum dimension between rear corner of front seat, with front seat back tilted forward, and trimmed lock pillar, built-in quarter armrest panel, or rear seat cushion at a height between the sill plate bead and 4.0 inches above the bead.

L30 BODY ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (-) sign.

L31a H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.

L34a MAXIMUM EFFECTIVE LEG ROOM - ACCELERATOR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the right foot on accelerator pedal.

L40a BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.

L41a BACK ANGLE - REAR. Measured in the same manner as L40a.

L42a HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.

L43a HIP ANGLE - REAR. Measured in the same manner as L42a.

L44a KNEE ANGLE - FRONT. The angle between a line from H Point to knee pivot center and a line from the knee pivot center to the ankle pivot center.

L45a KNEE ANGLE - REAR. Measured in the same manner as L44a.

L46a FOOT ANGLE - FRONT. The angle between a line extended from the knee pivot center through the ankle pivot center and a line tangent to the sole and heel of manikin bare foot.

L47a FOOT ANGLE - REAR. Measured in the same manner as L46a.

L48a MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.

L49a H POINT TO WINDSHIELD UPPER DLO. The horizontal dimension from H Point to the point of tangency of horizontal line of vision (described in dimension H64a) with body upper structure.

DIMENSION DEFINITIONS (cont.)

L50a H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

L51a MINIMUM EFFECTIVE LEG ROOM - REAR. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. Measured with the foot positioned to nearest interference between seat structure and toe, instep or lower leg.

L52a BRAKE PEDAL TO ACCELERATOR. The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.

L53a H POINT TO ACCELERATOR FLOOR POINT. The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.

L85a H POINT COUPLE DISTANCE - THIRD SEAT. The horizontal dimension from the second seat H Point to the third seat H Point.

L86a EFFECTIVE LEG ROOM - THIRD SEAT. Measured in the same manner as L51a. With rear-facing third seat,foot is positioned in foot well or to nearest interference with rear end or rear closure.

L87a KNEE ROOM - THIRD SEAT. Measured in the same manner as L48a. With rear-facing third seat,dimension is measured to rear closure.

L88a BACK ANGLE - THIRD SEAT. Measured in the same manner as L40a.

L89a HIP ANGLE - THIRD SEAT. Measured in the same manner as L42a.

L90a KNEE ANGLE - THIRD SEAT. Measured in the same manner as L44a.

L91a FOOT ANGLE - THIRD SEAT. Measured in the same manner as L46a.

L101 WHEELBASE.

L102 TIRE SIZE.

L103 OVERALL LENGTH. Include bumper guards if standard equipment.

L104 OVERHANG - FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.

L105 OVERHANG - REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.

L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the theoretical intersection of extended windshield glass plane and normal cowl surface to the theoretical intersection of extended back window glass plane and normal deck surface; or in the case of a Fastback roof or Station Wagon, to back glass lower reveal molding, or rubber when molding is not used.

L127 BODY ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L128a HOOD LENGTH AT CAR CENTERLINE. The horizontal dimension from the foremost point on sheet metal hood surface, excluding series identification or ornamentation, to the theoretical intersection of extended windshield glass plane and normal cowl surface.

L129a DECK LENGTH AT CAR CENTERLINE. The horizontal dimension from the rearmost point of the body sheet metal (visible above bumper), excluding series identification or ornamentation, to the theoretical intersection of extended back window glass plane and normal deck surface.

L130a BODY ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from body zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

H5a H POINT TO GROUND - FRONT. Vertical dimension.

H6a H POINT TO WINDSHIELD BOTTOM DLO. Vertical dimension.

H10a H POINT TO GROUND - REAR. Vertical dimension.

H11a ENTRANCE HEIGHT - FRONT. The vertical dimension from H Point to upper trimmed body opening.

H12a ENTRANCE HEIGHT - REAR. The vertical dimension from H Point to the upper trimmed body opening at a section 13.0 inches forward of the H Point.

H13a STEERING WHEEL THIGH CLEARANCE. The minimum dimension from the bottom of steering wheel, in straight-ahead position, to centerline of thigh.

H18 STEERING COLUMN ANGLE - HORIZONTAL. The angle the centerline of steering column makes with the horizontal.

H25a BELT HEIGHT - FRONT. The vertical dimension from H Point to bottom of side window DLO.

H30a H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.

H31a H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.

H32a SEAT CUSHION DEFLECTION - FRONT. The vertical dimension from a point on the undepressed seat cushion to the depressed seat cushion. Measured at the H Point station.

H33a SEAT CUSHION DEFLECTION - REAR. Measured in the same manner as H32a.

H37 HEADLINING TO ROOF HEIGHT - FRONT. The dimension from the intersection of the headlining and the extended effective head room line to the roof panel. Measured perpendicularly to the roof panel.

H38 HEADLINING TO ROOF HEIGHT - REAR. Measured in the same manner as H37.

H49a H POINT TO TOP OF STEERING WHEEL. The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.

H50a UPPER BODY OPENING TO GROUND - FRONT. The vertical dimension from a point on the trimmed body opening to the ground. Measured at the H Point station.

DIMENSION DEFINITIONS (cont.)

H51a UPPER BODY OPENING TO GROUND - REAR. The vertical dimension from a point on the trimmed body opening to the ground. Measured 13.0 inches forward of the H Point.

H54a H POINT TO TUNNEL - FRONT. The minimum dimension from the H Point, at car centerline, to top of tunnel.

H55a H POINT TO TUNNEL - REAR. Measured in the same manner as H54a.

H58a H POINT RISE. The vertical dimension between the H Point in the most forward and rearward seat positions.

H61a EFFECTIVE HEAD ROOM - FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

H63a EFFECTIVE HEAD ROOM - REAR. Measured in the same manner as H61a.

H64a H POINT TO WINDSHIELD UPPER DLO. Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.

H65a H POINT DIFFERENTIAL, SIDE TO CENTER - FRONT. The vertical dimension from side occupant H Point to center occupant H Point.

H66a H POINT DIFFERENTIAL, SIDE TO CENTER - REAR. Measured in the same manner as H65a.

H67a DEPRESSED FLOOR COVERING THICKNESS - FRONT. The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.

H68a DEPRESSED FLOOR COVERING THICKNESS - REAR. Measured same as H67a.

H85a H POINT TO GROUND - THIRD SEAT. Vertical dimension.

H86a EFFECTIVE HEAD ROOM - THIRD SEAT. Measured in the same manner as H61a.

H87a H POINT TO HEEL POINT - THIRD SEAT. Measured in the same manner as H31a.

H101 OVERALL HEIGHT. Measured with full design load.

H102 FRONT BUMPER TO GROUND. Minimum dimension.

H104 REAR BUMPER TO GROUND. Minimum dimension.

H106 ANGLE OF APPROACH. Minimum angle between ground and a line tangent to arc of front tire static loaded radius and touching the limiting point of interference on front bumper, bumper guard, or gravel deflector.

H107 ANGLE OF DEPARTURE. Minimum angle between ground and a line tangent to arc of rear tire static loaded radius and touching the limiting point of interference on rear bumper, bumper guard, gravel deflector, tail pipe, fender or other interfering structure.

H111 ROCKER PANEL TO GROUND - REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at front of rear wheel opening.

H112a ROCKER PANEL TO GROUND - FRONT. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured at foremost point of rocker panel.

H114 HOOD AT REAR TO GROUND. Measured from hood opening line on shroud, exclusive of moldings.

H115 STEP HEIGHT - FRONT (DESIGN LOAD). The vertical dimension from top of sill plate bead, at C/L of front door sill plate, to ground.

H116 STEP HEIGHT - REAR (DESIGN LOAD). Measured in same manner as dimension H115.

H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by an 18-inch chord.

H130 STEP HEIGHT - FRONT (CURB LOAD). The vertical dimension from top of sill plate, at C/L of front door sill plate, to ground.

H131 STEP HEIGHT - REAR (CURB LOAD). Measured in same manner as H130.

H132 BOTTOM OF DOOR TO GROUND, OPEN - FRONT. Measured from bottom outside corner of door with door in maximum hold-open position.

H133 BOTTOM OF DOOR TO GROUND, CLOSED - FRONT. Same point on door as H132 dimension, with door closed.

H134 BOTTOM OF DOOR TO GROUND, OPEN - REAR. Measured in same manner as H132.

H135 BOTTOM OF DOOR TO GROUND, CLOSED - REAR. Measured in same manner as H133.

H136a BODY ZERO TO GROUND - FRONT. A vertical dimension measured at front wheel centerline.

H137a BODY ZERO TO GROUND - REAR. A vertical dimension measured at rear wheel centerline.

H147 RAMP BREAKOVER ANGLE. Supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.

H148 FRONT SUSPENSION TO GROUND. Minimum clearance measured from lower control arm inner shaft or lowest point on the car centerline.

H149 OIL PAN TO GROUND. Minimum clearance measured from sheet metal or drain plug.

H150 FLYWHEEL/CONVERTER HOUSING AND TRANSMISSION ASSEMBLY TO GROUND. Minimum clearance.

H151 FRAME STRUCTURE TO GROUND. Minimum clearance measured approximately midway between front and rear axles. In this measurement, cross bars and X-members shall be considered part of frame.

H152 EXHAUST SYSTEM TO GROUND. Minimum clearance. Specify location.

H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND. Minimum clearance.

H154 FUEL TANK TO GROUND. Minimum clearance measured from sheet metal or drain plug, but excluding supports or straps.

H155 SPARE TIRE WELL TO GROUND. Minimum clearance.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

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