AMA Specifications – Passenger Car

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MANUFACTURER	CAR NAME	
OLDSMOBILE DIV. G. M. C.	OLDSMOBILE	
MAILING ADDRESS	MODEL YEAR	ISSUED: 9-28-63
LANSING, MICHIGAN 48921	1964	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	S88	98
4 Door Sedan	6	3469	3569	3819
4 Door Hardtop (4 window)	6	3439	3539	3839
4 Door Hardtop (6 window)	6	-	-	3829
2 Door Hardtop Coupe	6	3447	-	3847
2 Door Convertible Coupe	5	3467	-	3867
4 Door Station Wagon 2-Seat	6	3435	-	-
4 Door Station Wagon 3-Seat	9	3445	-	-

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	3819	3829	3839	3847	3867
Wheelbase (L101)		23	126	126	126	126	126
Tread	Front (W101)	22	62.2	62.2	62.2	62.2	62.2
	Rear (W102)	22	61.0	61.0	61.0	61.0	61.0
Maximum Overall Dimensions	Length (L103)	23	222.3	222.3	222.3	222.3	222.3
	Width (W103)	22	77.76	77.76	77.76	77.76	77.76
	Height (H101)	24	56.5	56.5	55.0	55.0	55.8
Transmission—(Specify trade name - opt., not available)	Manual	15	N. A.	N. A.	N. A.	N. A.	N. A.
	Overdrive	16	N. A.	N. A.	N. A.	N. A.	N. A.
	Automatic	16	Std.	Std.	Std.	Std.	Std.
Axle ratio	Manual	17	None	None	None	None	None
	Overdrive	17	None	None	None	None	None
	Automatic	17	3.08	3.08	3.08	3.08	3.08
Tire size		18	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° O. H. V. V-8				
	Fuel system (Carb., other)	8	CARBURETOR				
	Bore and stroke	2	4.125 x 3.688				
	Piston displ., cu.in.	2	394				
	Std. compression ratio	2	10.25:1				
	Max. bhp at engine rpm	2	330 @ 4600				
	Max. torque at rpm	2	440 @ 2800				

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	3435 3445	3439	3447	3467	3469	3539	3569
Wheelbase (L101)		23	123	123	123	123	123	123	123
Tread	Front (W101)	22	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
Maximum Overall Dimensions	Length (L103)	23	215.79	215.3	215.3	215.3	215.3	215.3	215.3
	Width (W103)	22	77.4	77.4	77.4	77.4	77.4	77.76	77.76
	Height (H101)	24	57.8	55.2	54.8	55.6	55.9	55.2	55.9
Transmission—(Specify trade name - opt., not available)	Manual	15	Std.	Std.	Std.	Std.	Std.	Std.	Std.
	Overdrive	16	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.	N. A.
	Automatic	16	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
	Overdrive	17	None	None	None	None	None	None	None
	Automatic	17	3.08	3.08	3.08	3.08	3.08	3.08	3.08
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
Engine	Type, no. cyl., valve arr.	2	90° O. H. V. V-8						
	Fuel system (Carb., other)	8	CARBURETOR						
	Bore and stroke	2	4.125 x 3.688						
	Piston displ., cu.in.	2	394						
	Std. compression ratio	2	10.25:1						
	Max. bhp at engine rpm	2	280 @ 4400					330 @ 4600	
	Max. torque at rpm	2	430 @ 2400					440 @ 2800	

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ENGINE—GENERAL

MODEL		3400	3500	3800
Type, no. cyls., valve arr.			90° O. H. V. V-8	
Bore and stroke (nominal)			4.125 x 3.688	
Piston displacement, cu. 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	
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		* 4° 30'	* 4° 30'	4°
Taxable horsepower $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{2.5}$			54	
Published max. bhp* @ eng. RPM		280 @ 4400	330 @ 4600	330 @ 4600
Published max. torque* (lb. ft. @ RPM)		430 @ 2400	440 @ 2800	440 @ 2800
Recommended fuel regular - premium			Prem.	
Idle speed (spec. neutral or drive)	Manual		550	
	Automatic		500	

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
		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 to 60° F and 29.92 in. Hg atmospheric pressure.

* Standard Transmission - (4° Hydramatic)

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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		
3400 Std.	394	2 bbl.	10.25	280 @ 4400	430 @ 2400	Synchromesh Hydramatic	3.23 3.08
3400 Opt.	394	2 bbl.	8.75	260 @ 4400	410 @ 2400	Synchromesh Hydramatic	3.23 3.08
3400 Opt.	394	4 bbl.	10.25	330 @ 4600	440 @ 2800	Synchromesh Hydramatic	3.23 3.08
3500 Std.	394	4 bbl.	10.25	330 @ 4600	440 @ 2800	Synchromesh Hydramatic	3.23 3.08
3500 Opt.	394	4 bbl.	10.50	345 @ 4800	440 @ 3200	Hydramatic	3.42
3800 Std.	394	4 bbl.	10.25	330 @ 4600	440 @ 2800	Hydramatic	3.08
3800 Opt.	394	4 bbl.	10.50	345 @ 4800	440 @ 3200	Hydramatic	3.42

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MODEL			3400	3500	3800
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. Taper Face Lower Ring: Parco Lubrited-Taper Face-Interrupted Scrape 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 - .025		
Expanders			None		
ENGINE—PISTON PINS					
Material			SAE #1016 Special & SAE #1019		
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 - .013 - 2 Rods per Crankpin		

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MODEL	3400	3500	3800

ENGINE—CRANKSHAFT

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 w/ G. M. 3874-M Babbitt Overlay #5 (Rear): Steel backed Durex 100A w/GM 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

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		SAE # 1140, 1118, 1146, G. M. 85M Steel or A. S. T. M. B-310 Sintered Iron
	Camshaft gear or sprocket material		Aluminum & Nylon
	Timing chain	No. of links	48
		Width	.844
		Pitch	.500

ENGINE—VALVE SYSTEM

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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MODEL			3400	3500	3800
ENGINE—VALVE SYSTEM (cont.)					
Timing	Intake	Opens (°BTC)	14	11	11
		Closes (°ABC)	50	59	59
		Duration - deg.			
	Exhaust	Opens (°BBC)	54	59	59
		Closes (°ATC)	16	25	25
		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	.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		
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	3400	3500	3800

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, S. A. E. 20W Below 32° F & Above 0° F S. A. E. 5 W-20, S. A. E. 10 W 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
Muffler No. & type (reverse flow, straight thru, separate resonator)		Reverse Flow
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			3400	3500	3800
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 @ 1000 Engine R. P. M.		
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Accreated & Saran Type		
	Locations		Fuel Pump & Fuel Tank		
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air clnr. type	Standard	Paper		
		Optional	None		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
3400 Std.	394	Syncromesh	Rochester	2 GC	Single Dual	1.6875
3400 Opt.	394	Syncromesh & Hydramatic	Rochester	4 GC	Single Quad.	1.5625 Prim. 1.6875 Sec.
3500 & 3800 Std.	394	Syncromesh Hydramatic	Rochester	4 GC	Single Quad.	1.5625 Prim 1.6875 Sec.

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ENGINE—COOLING SYSTEM

MODEL			3400	3500	3800
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)		177° - 182°		
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 R4 Class R - Grade 1 A One - Molded - Modified		
		Inside diameter	1.75		
	Upper	Number and type (molded, straight)	SAE 20 R4 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° (6A/C)		
	Diameter		18" (19" A/C)		
	Ratio-fan to crankshaft rev.		.849 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	61.70	67.25
Width	.380	.380	.380	.380	.380

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ELECTRICAL—SUPPLY SYSTEM

			MODEL 3400	3500	3800
Battery	Make and Model		Delco Remy 1980562		
	Voltage Rtg. & Total Plates		12V - 66 Plates		
	SAE Designation & Amp Hr. Rtg		3 KMB - 70 Amp Hr.		
	Location		Engine Compartment - Front LH Side		
	Terminal grounded		Negative		
Generator	Make		Delco Remy		
	Model		1100659		
	Type		Self Rectifying AC		
	Ratio—Gen. to Cr/s rev.		2.24 Std. 2.57 with A/C		
	Gen. cut-in (hot)—engine rpm		Charge on Idle		
Regulator	Make		Delco Remy		
	Model		1119515		
	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	120°F		
		Load	Less than 10 Amps		
		Other	Upper Contacts		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy		
	Model		1107776 E/L 65, L 90		
	Rotation (drive end view)		Clockwise		
	Engine cranking speed		150		
	Test conditions		80°F		
	Lock test	Amps	Not Specified		
		Volts	Not Specified		
		Torque (lb. ft.)	Not Specified		
	No load test	Amps	110 to 140		
		Volts	10.6		
		RPM (min.)	3900		
Motor control	Switch (solenoid, manual)		Solonoid		
	Starting procedure		Turn Ignition Switch against Spring Load to Full Clockwise Position. Cars with Hydramatic Transmissions Must be on Park or Neutral to Start.		

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solonoid with Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	166
	Flywheel tooth face width		.438

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		1115190 T-3153
	Amps	Engine stopped	6.0 @ 12V (75° Winding Time)
		Engine idling	1.35
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 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 - 32
	Breaker arm tension (oz.)		19 - 23
Timing	Crankshaft deg. @ rpm.		5° @ 850 R.P.M. except 3400 S.M.T.: 2.50 @ 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 Leads. Bypass Condensers at Alternator, Regulator, & Coil on Radio Equipped Cars.

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ELECTRICAL—INSTRUMENTS AND SWITCHES

MODEL		3400	3500	3800
Speedometer	Make	AC		
	Trip odometer (yes, no)	No		
Charge indicator—type		Ind. Lamp		
Temperature indicator—type		Ind. Lamp		
Oil pressure indicator—type		Ind. Lamp		
Fuel indicator—type		Gage		
Other		Ind. Lamp		
Ignition switch	Identify positions in order and circuits controlled	1. Accessory on Ign. Off 2. Off - Lock Position 3. Accessory on - Ignition thru Resistor 4. Accessory Off - Ignition Direct, Solonoid On		
	Run Start			
	Provision for illumination	Yes		
	Location	Instrument Panel - Right of Driver		
Main lighting switch	Identify positions and lamps controlled	1. Park, Instrument, Tail & License Lights 2. Headlights, Instrument, Tail & License Lights		
	Rotate Control	Dims Instrument Lights		
Other light switches	Locations and lamps controlled Foot Dimmer Map Lights & Courtesy Lights	On L. H. Toe Pan - Controls Headlights - Hi & Lo Beam Right of Driver on Instrument Panel Overhang		
Other switches	Locations and devices controlled W/S Wiper	Left of Driver on Instrument Panel		
	Heater	Right of Driver on Instument Panel		
	Power Top	Right of Driver in Instrument Panel Overhang		
	Electric Antenna	Right of Driver in Instrument Panel Overhang		
Windshield wiper	Make	Delco Appliance Div. G.M.C.		
	Type	Electric 1 Speed	Electric 2 Speed	
	Vacuum booster provision	No		
	Washer provision	Yes		
Horn	Type	Vibrator		
	Number used	2		
	Amp draw (each)	5.2 - 5.7		

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

MODEL	3400	3500	3800

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.

Headlamps & arrangement		Dual Headlight 2 - L 4001, 2 - L 4002
Headlamp beam indicator		1-194
Parking		2-1157
Tail		2-1157
Stop		2-1157
Direction signal	Front	2-1157
	Rear	2-1157
	Indicator	2-194
License Plate		1-1155
Oil pressure indicator		1-194
Charge indicator		1-194
Instrument		3-194
Clock		1-1816 *
Radio		1- 1893 *

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

Ignition lock	1-1445
Back up	2-1156 *
Dome	1-1004 or 2-90
Glove compartment	1-1893
Prkg. brake signal	1-57X
Luggage compartment	1-631 *
Underhood	1-631 *
Courtesy	2-90
Map	1-90 *
Temp Ind (Hot)	1-194
Temp Ind(Cold)	1-194
Safety Sentinel	1-194 *
Shift Ind	1-1895 or 1-1445
Heat & Vent	1-1895
Tachometer	1-1895 *
Ash Tray	2-1445
Cruise Control	1-1445
Console Lights	3-90 *
Arm Rests	2-90 *
Door Lights	2-212 *
Console Comp	1-1895 *

* Optional

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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	20 CB (A)
Headlamp beam indicator	Same as (A)
Parking lamp	Same as (A)
Tail lamp	SFE - 9 (B)
Stop lamp	FE - 20 (C)
Direction Indicator	SFE - 9
License plate lamp	Same as (B)
Instrument lamp	AGA - 3 (D)
Ignition lamp	Same as (D)
Back up lamp	SFE - 9 (E)
Dome lamp	AGC - 25 (F)
Clock	AGA - 2
Clock lamp	Same as (D)
Radio	AGN - 2 1/2 AGN 2 1/2 (Super DeLuxe)
Glove compartment lamp	AGC - 5 (G)
Under Hood Lamp	Same as (G)
W/S Wiper	SFE - 20
Cigar Lighter	SFE - 20
Ind. Lights	Same as (E)
Fuel Gage	Same as (E)
Brake Warning Light	Same as (E)
Trunk Light	Same as (B)
Courtesy Lights	Same as (F)
Heater Control Lamp	Same as (D)
Heater	SFE - 20 AGC - 25 with A/C or Rear Defroster
Electric Windows or Seat	SFE - 20 AGC-25 with 4 or 6 Way Seat

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

			3400	3500	3800
Height above ground to center of bulb	Tail	Lowest	28.5	28.5	28.4
		Highest	28.5	28.5	28.4
	Stop		28.5	28.5	28.4
	Backup		22.5	22.5	21.4
	License, rear		23.1	23.1	23.5
	Directional	Front	24.4	24.4	24.6
		Rear	28.5	28.5	28.4
	Headlamp	Inside	32.0	32.0	32.0
		Outside*	32.0	32.0	32.0
Distance from C/L of car to center of bulb	Tail	Inside	27.3	27.3	33.5
		Outside	-	-	-
	Stop		27.3	27.3	33.5
	Backup		13.7	13.7	12.4
	License, rear		0	0	0
	Directional	Front	30.3	30.3	30.3
		Rear	27.3	27.3	33.5
	Headlamp	Inside	22.1	22.1	22.1
		Outside*	30.2	30.2	30.2

* If single headlamps are used enter here.

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

MODEL			3400	3500	3800
DRIVE UNITS—CLUTCH (Manual Transmission)					
Make & type			Long - 11 CF - Semi-Centrifugal		N. A.
Type pressure plate springs			Coil		N. A.
Effective plate pressure (lb.)			2043 Static + 505 @ 2800 RPM Centrifugal		N. A.
No. of clutch driven discs			One		N. A.
Clutch facing	Material		Woven Asbestos		N. A.
	Outside & inside dia.		11 x 7		N. A.
	Total eff. area (sq.in.)		113		N. A.
	Thickness		.137 Each Facing		N. A.
	Engagement cushioning method		Torbend Plate		N. A.
Release bearing	Type & method of lubrication		Ball Permanent		N. A.
Torsional damping	Methods: springs, friction material		Coil Springs - Steel Friction		N. A.
DRIVE UNITS—TRANSMISSIONS					
Manual (std. or opt.)			Standard		N. A.
Manual with overdrive (std. or opt.)			None		N. A.
Automatic (std. or opt.)			Optional		Standard
DRIVE UNITS—MANUAL TRANSMISSION					N. A.
Number of forward speeds			3		N. A.
Transmission ratios	In first		2.1527:1		N. A.
	In second		1.3725:1		N. A.
	In third		Direct		N. A.
	In fourth		-		N. A.
	In reverse		2.2793:1		N. A.
Synchronous meshing, specify gears			2 & 3		N. A.
Shift lever location			Steering Column		N. A.
Lubricant	Capacity (pt.)		2.5		N. A.
	Type recommended		Multipurpose		N. A.
	SAE viscosity number	Summer	80 or 90		N. A.
		Winter	80 or 90		N. A.
		Extreme cold	80 or 90		N. A.

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 9-28-63 **REVISED** (•)

MODEL	3400	3500	3800

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)			NOT	
	Manual lockout (yes, no)				
	Downshift accelerator control (yes, no)				
	Minimum cut-in speed				
	Gear ratio				
	Lubricant	Capacity (pt.) (Overdrive only)			
		Separate filler (yes, no)			
		Type recommended			
		SAE viscosity number	Summer	OFFERED	
			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			Low		Reverse
		1st Stage = 3.32:1			3.32:1		3.11:1
		2nd Stage = 293:1			2.93:1		2.43:1
		3rd Stage = 1.56:1			Not Used		Not Used
		4th Stage = Direct			Not Used		Not Used
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)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (*)

DRIVE UNITS—PROPELLER SHAFT (cont.)

			MODEL 3400	MODEL 3500	MODEL 3800
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			2		
Gear ratios (Std. equip.)	Manual transmission		3.23:1	3.23:1	N.A.
	Overdrive transmission		None		
	Automatic transmission		3.08:1	3.08:1	3.08:1
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.)		5.38		
	Type recommended		Multi-Purpose Mil - L - 2105 B		
	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	40	42	41

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

MODEL			3400	3500	3800
DRIVE UNITS—WHEELS					
Type & material			Drop Center - Welded Wheels		
Rim (size and flange type)		Std.	14 x 6 K		
		Opt.	14 x 6 K		
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	8.50 x 14
	Type - Nylon, etc.		Rayon		
Rev/mile at 50 mph.			773	773	756
Inflation press.(cold)	Front		24	24	24
	Rear		24	24	24
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.)*			163.5		
Gross lining area (sq. in.)**			189.4		
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		560 @ 40 lb. pedal load
Shoe clearance adjustment			.015		

* 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.

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

MODEL	3400	3500	3800

DRIVE UNITS—WHEELS

Type & material			
Rim (size and flange type)	Std.		
	Opt.		
Attachment	Type (bolt or stud)		
	Circle diameter		
	Number and size		

DRIVE UNITS—TIRES

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

BRAKES—SERVICE

			METALLIC LININGS OPTIONAL	
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.)*			137.8	
Gross lining area (sq. in.)**			137.8	
Swept drum area (sq. in.)***			310.0	
Percent brake effectiveness—front			58.5 %	
Drum	Diameter	Front	11.0	
		Rear	11.0	
	Type and material		Centrifuse Cast Iron in Steel Shell	
Wheel cylinder bore	Front		1 3/16	
	Rear		1	
Master cylinder bore			7/8 Manual	7/8 Power
Available pedal travel			5.50 Manual	3.82 Power
Line pressure at 100 lb. pedal load			980 PSI Manual	730 @ 40 Pedal Load
Shoe clearance adjustment			.015	

* 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.

(Continued)

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MODEL METALLIC LINING OPT.

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Moraine 705
		Size (length x width x thickness)	Front wheel	6 Segments 4.92 x 2.50 x .200
			Rear wheel	6 Segments 6.00 x 2.00 x .200
		Segments per shoe		
	Rear Shoe	Material		Moraine 703
		Size (length x width x thickness)	Front wheel	12 Segments 9.84 x 2.50 x .320
			Rear wheel	10 Segments 10.0 x 2.00 x .320
		Segments per shoe		

BRAKES—PARKING

Type of control		
Location of control		
Operates on		
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

FRAME or UNITIZED CONSTRUCTION

Type and description

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

Provision for car leveling		
Provision for brake dip control		
Provision for acc. squat control		
Special provisions for car jacking		
Shock absorber front & rear	Type	
	Make	
	Piston dia.	
Other special features		

SUSPENSION—FRONT

Type and description	

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

(Continued)

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MODEL	3400	3500	3800

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted			Riveted
	Front Shoe	Material		Marshall H 3144 PRI.
		Size (length x width x thickness)	Front wheel	8.95 x 2.50 x .19
			Rear wheel	8.95 x 2.00 x .19
		Segments per shoe		One
	Rear Shoe	Material		Marshall H 3152 F
		Size (length x width x thickness)	Front wheel	11.5 x 2.50 x .255
			Rear wheel	11.5 x 2.00 x .255
		Segments per shoe		

BRAKES—PARKING

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

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 & 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

(Continued)

* Air Suspension:
Air spring type
Compressor data
type
make
drive ratio

`Normal operating pressures
spring rates
leveling data

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MODEL	3400	3500	3800

SUSPENSION FRONT (cont.)

Spring	Type	Independent Coil Spring		
	Material	SAE 9260 or 5160		
	Size (coil design height & I.D.; bar length x dia.	11" Design Height - 4.05 I.D. 155" Long .690 Dia.		
	Spring rate (lb. per in.)	335		
	Rate at wheel (lb. per in.)	89		
	Design load (lb. @ design height)	2360 @ 11"		
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	SAE 1070 1.062	1.062	1.093

STEERING

Manual (std., opt., NA)				Standard	N. A.
Power (std., opt., NA)				Optional	Standard
Adjustable steering wheel (tilt, swing, other)	Type and description			Tilt Type	N A.
	(std., opt., NA)			Optional Only on All	
Wheel diameter	Manual			16.00	16.00	16.00
	Power			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°	
Manual	Gear	Type		Ball Nut	N. A.
		Make		Saginaw Steering Gear	N. A.
		Ratios	Gear	24.0:1	N. A.
			Overall	33.24:1	N. A.
	No. wheel turns			6.1 (Lock to Lock)	N. A.
Power	Type (coaxial, linkage, etc.)			Gear Integral	
	Make			Saginaw Steering Gear	
	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				3400	3500	3800
STEERING (cont.)						
Steering Axis	Inclination at camber (deg.)			10° at +1° Camber		
	Bearings (type)	Upper		Ball Joint		
		Lower		Ball Joint		
		Thrust		Ball Joint		
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.		
	Spring rate (lb. per in.)			100		
	Rate at wheel (lb. per in.)			100		
	Design load (lb. at design height)			1000 @ 9"	1020 @ 9"	1020 @ 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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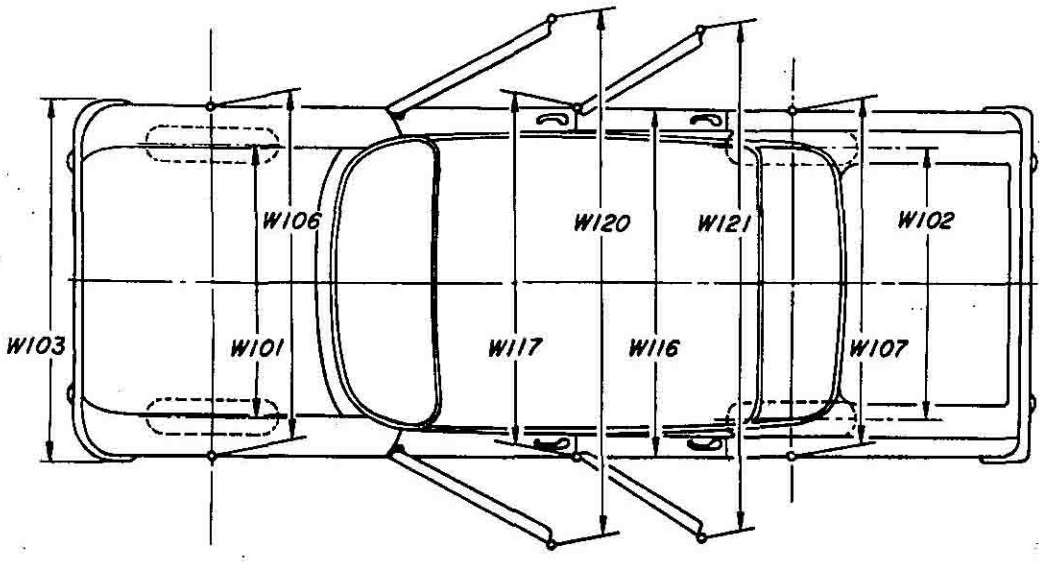
CAR AND BODY DIMENSIONS—GENERAL

Dimensions herein are those adopted by the Society of Automotive Engineers. Brief descriptions of these dimensions are listed on pages 34-36. Complete definitions are listed in section E-1 of the SAE Aeronautical - Automotive Drawing Standards.
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 D Point is the point of tangency of a horizontal line and the lowest point of the manikin.
8. 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.	3435	3439	3445	3447	3467	3469	3539	3569
Tread - front	W101	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
Tread - rear	W102	61.06	61.06	61.06	61.06	61.06	61.06	61.06	61.06
Maximum overall car width	W103	77.4	77.4	77.4	77.4	77.4	77.4	77.76	77.76
Maximum overall body width	W116	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
Maximum body width at #2 pillar	W117	75.3	75.3	75.3	-	-	75.3	75.3	75.3
Front fender overall width	W106	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
Rear fender overall width	W107	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
Maximum overall car width - front doors open	W120	141.8	141.8	141.8	155.9	155.9	141.8	141.7	141.7
Maximum overall car width - rear doors open	W121	139.3	139.3	139.3	-	-	139.3	139.3	139.3

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CAR AND BODY DIMENSIONS—GENERAL

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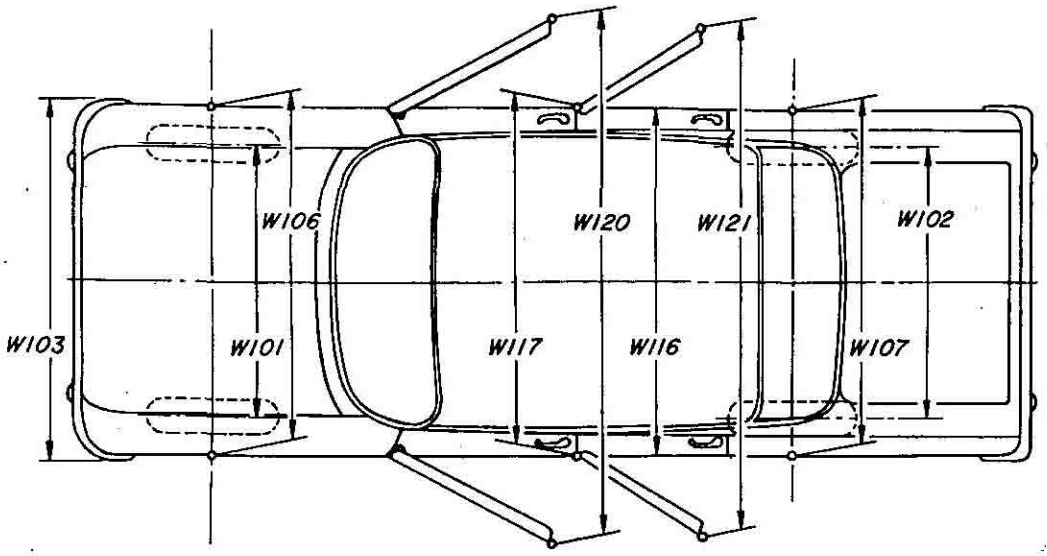
4. Unless otherwise specified, all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
5. The SAE manikin with 90th 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 D Point is the point of tangency of a horizontal line and the lowest point of the manikin.
8. The Torso Line is a line parallel to the small of manikin's back and extending through the H Point.

EXTERIOR WIDTH DIMENSIONS

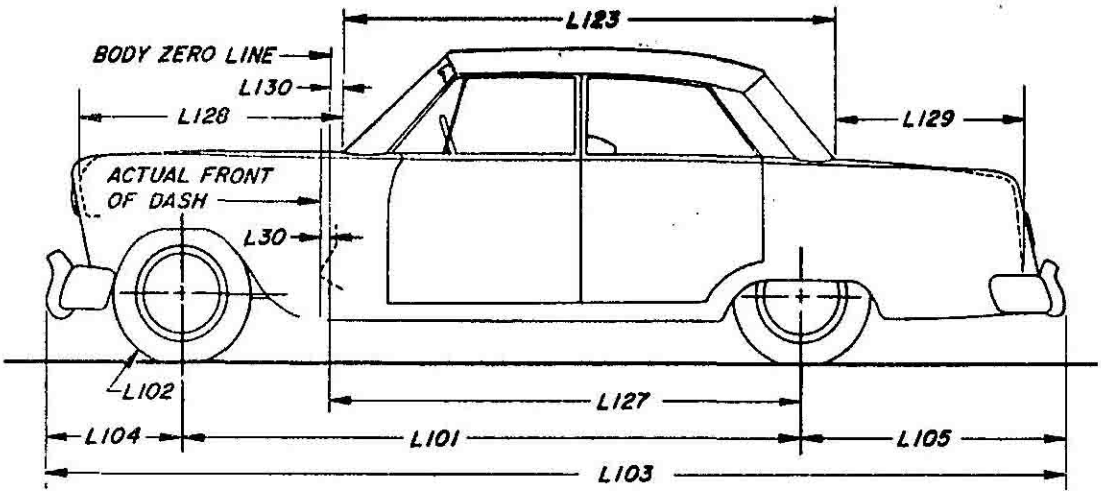


MODEL	Ref. No.	3819	3829	3839	3847	3867
Tread - front	W101	62.2	62.2	62.2	62.2	62.2
Tread - rear	W102	61.06	61.06	61.06	61.06	61.06
Maximum overall car width	W103	77.76	77.76	77.76	77.76	77.76
Maximum overall body width	W116	76.4	76.4	76.4	76.4	76.4
Maximum body width at #2 pillar	W117	75.4	75.4	75.4	-	-
Front fender overall width	W106	77.4	77.4	77.4	77.4	77.4
Rear fender overall width	W107	76.3	76.3	76.3	76.3	76.3
Maximum overall car width - front doors open	W120	141.7	141.7	141.7	155.9	155.9
Maximum overall car width - rear doors open	W121	145.8	145.8	145.8	-	-

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(•) _____

EXTERIOR LENGTH DIMENSIONS

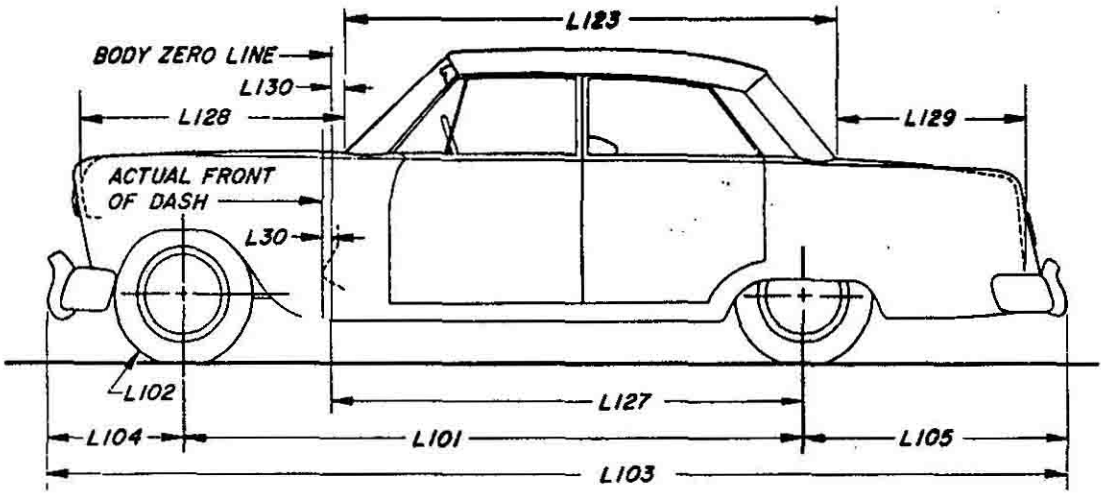


MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
Body zero line to actual front of dash	L30	.54	.54	.54	.54	.54	.54	.54	.54
Wheelbase	L101	121.66	123.0	121.66	123.0	123.0	123.0	123.0	123.0
Overhang – front	L104	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
Overhang – rear	L105	58.13	56.3	58.13	56.3	56.3	56.3	56.3	56.3
Overall length	L103	215.79	215.3	215.79	215.3	215.3	215.3	215.3	215.3
Hood length at car centerline	L128	59.4	59.4	59.4	59.4	59.4	59.4	59.4	59.4
Body upper structure length at car centerline	L123	140.7	106.11	140.7	103.54	105.88	103.42	106.11	103.42
Deck length at car centerline	L129	-	46.51	-	49.08	46.74	49.20	46.51	49.20
Body zero line to centerline of rear wheels	L127	100.66	102.0	100.66	102.0	102.0	102.0	102.0	102.0
Body zero line to windshield cowl point	L130	3.89	3.89	3.89	3.89	3.89	3.89	3.89	3.89
Tire size	L102	8.00x14	8.00x14	8.00x14	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14	8.00 x 14

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(•)

EXTERIOR LENGTH DIMENSIONS

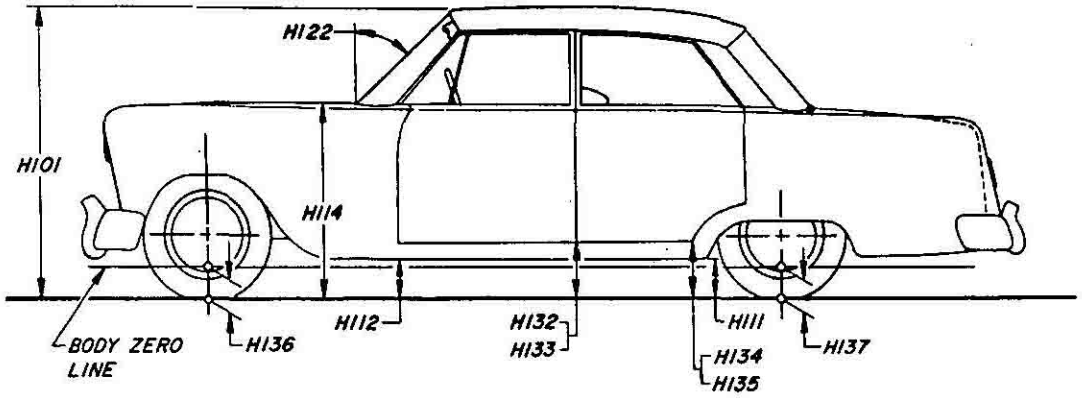


MODEL	Ref. No.	3819	3829	3839	3847	3867
Body zero line to actual front of dash	L30	.54	.54	.54	.54	.54
Wheelbase	L101	126.0	126.0	126.0	126.0	126.0
Overhang – front	L104	36.0	36.0	36.0	36.0	36.0
Overhang – rear	L105	60.3	60.3	60.3	60.3	60.3
Overall length	L103	222.3	222.3	222.3	222.3	222.3
Hood length at car centerline	L128	59.4	59.4	59.4	59.4	59.4
Body upper structure length at car centerline	L123	112.39	112.39	108.79	108.83	108.95
Deck length at car centerline	L129	46.05	46.05	49.60	49.61	49.49
Body zero line to centerline of rear wheels	L127	105.0	105.0	105.0	105.0	105.0
Body zero line to windshield cowl point	L130	3.87	3.87	3.92	3.87	3.87
Tire size	L102	8.50 x 14	8.50 x 14	8.50 x 14	8.50 x 14	8.50 x 14

AMA Specifications– Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

EXTERIOR HEIGHT DIMENSIONS

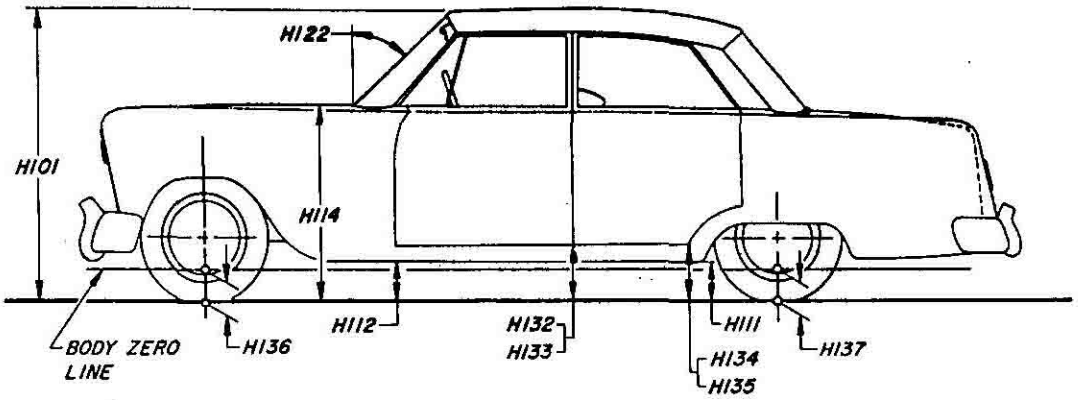


MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
Overall height	H101	57.8	55.2	57.8	54.8	55.6	55.9	55.2	55.9
Hood at rear to ground	H114	38.5	38.2	38.5	38.2	38.2	38.2	38.2	38.2
Rocker panel to ground - front	H112	9.5	9.0	9.5	9.0	9.1	9.0	9.0	9.0
Rocker panel to ground - rear	H111	9.5	8.1	9.5	8.1	8.2	8.1	8.1	8.1
Bottom of door to ground, open - front	H132	13.6	13.1	13.6	13.2	13.3	13.1	13.1	13.1
Bottom of door to ground, closed - front	H133	12.7	11.9	12.7	11.9	11.8	11.9	11.9	11.9
Bottom of door to ground, open - rear	H134	12.9	11.6	12.9	-	-	11.6	11.6	11.6
Bottom of door to ground, closed - rear	H135	12.6	11.4	12.6	-	-	11.4	11.4	11.4
Windshield slope angle	H122	54.5°	57.5°	54.5°	54.5°	54.5°	55°	57.5°	55°
Body zero to ground - front	H136	5.65	5.60	5.65	5.60	5.65	5.60	5.60	5.60
Body zero to ground - rear	H137	6.46	4.81	6.46	4.81	4.94	4.81	4.81	4.81

AMA Specifications– Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

EXTERIOR HEIGHT DIMENSIONS

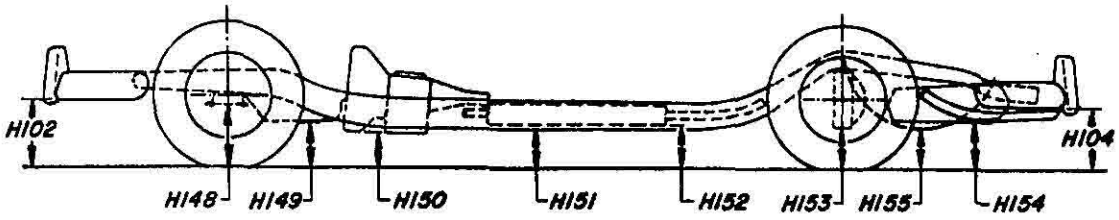


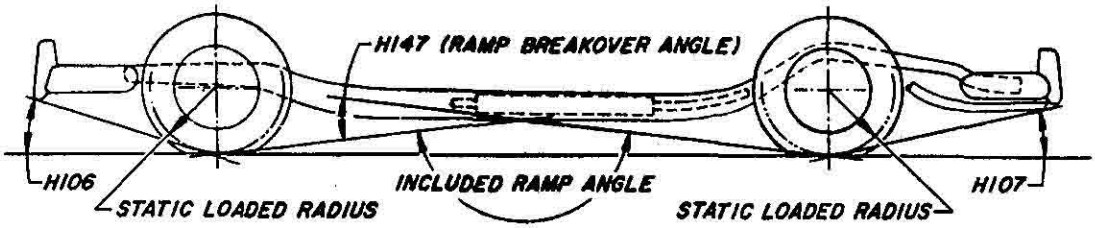
MODEL	Ref. No.	3819	3829	3839	3847	3867
Overall height	H101	56.5	56.5	55.0	55.0	55.8
Hood at rear to ground	H114	38.2	38.2	38.2	38.2	38.3
Rocker panel to ground – front	H112	9.0	9.0	9.0	9.0	9.2
Rocker panel to ground – rear	H111	8.1	8.1	8.1	8.1	8.2
Bottom of door to ground, open – front	H132	13.2	13.2	13.2	13.3	13.3
Bottom of door to ground, closed – front	H133	11.9	11.9	11.9	11.8	11.8
Bottom of door to ground, open – rear	H134	11.6	11.6	11.6	-	-
Bottom of door to ground, closed – rear	H135	11.4	11.4	11.4	-	-
Windshield slope angle	H122	55°	55°	54.5°	55°	54.5°
Body zero to ground – front	H136	5.64	5.64	5.64	5.64	5.76
Body zero to ground – rear	H137	4.81	4.81	4.81	4.81	4.94

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(•)

GROUND CLEARANCE DIMENSIONS



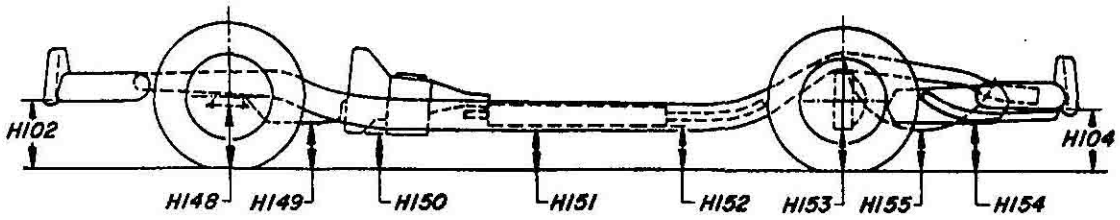


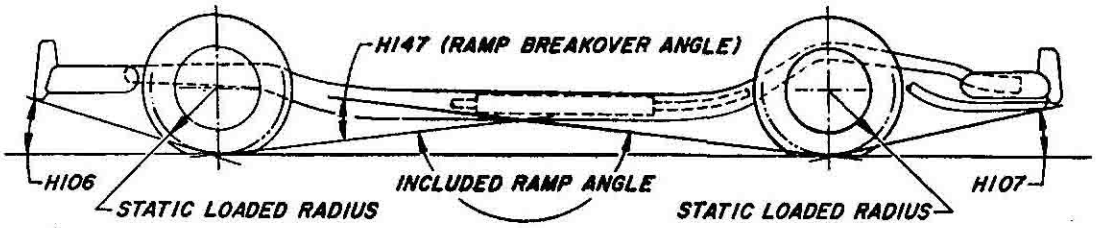
MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
Front bumper to ground	H102	12.06	12.02	12.06	12.02	12.43	12.02	12.02	12.02
Rear bumper to ground	H104	12.19	10.56	12.19	10.56	10.72	10.56	10.56	10.56
Angle of approach	H106	24°40'	24°40'	24°40'	24°40'	24°40'	24°40'	24°40'	24°40'
Angle of departure	H107	11°52'	11°52'	11°52'	11°52'	11°52'	11°52'	11°52'	11°52'
Ramp breakover angle	H147	10°50'	10°50'	10°50'	10°50'	10°50'	10°50'	10°50'	10°50'
Front suspension to ground	H148	6.24	6.19	6.24	6.19	6.24	6.19	6.19	6.19
Oil pan to ground	H149	6.02	5.81	6.02	5.81	5.87	5.81	5.81	5.81
Flywheel housing to ground	H150	6.52	6.23	6.52	6.23	6.02	6.23	6.23	6.23
Frame structure to ground	H151	6.71	5.36	6.71	5.36	5.47	5.36	5.36	5.36
Exhaust system to ground	H152	6.71	5.72	6.71	5.72	5.81	5.72	5.72	5.72
Rear axle differential to ground	H153	6.45	6.45	6.45	6.45	6.45	6.45	6.45	6.45
Fuel tank to ground	H154	7.72	6.94	7.72	6.94	7.07	6.94	6.94	6.94
Spare tire well to ground	H155	-	-	8.78	-	-	-	-	-
Minimum running ground clearance	H156	6.02	5.36	6.02	5.36	5.47	5.36	5.36	5.36

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 9-28-63 **REVISED(•)**

GROUND CLEARANCE DIMENSIONS



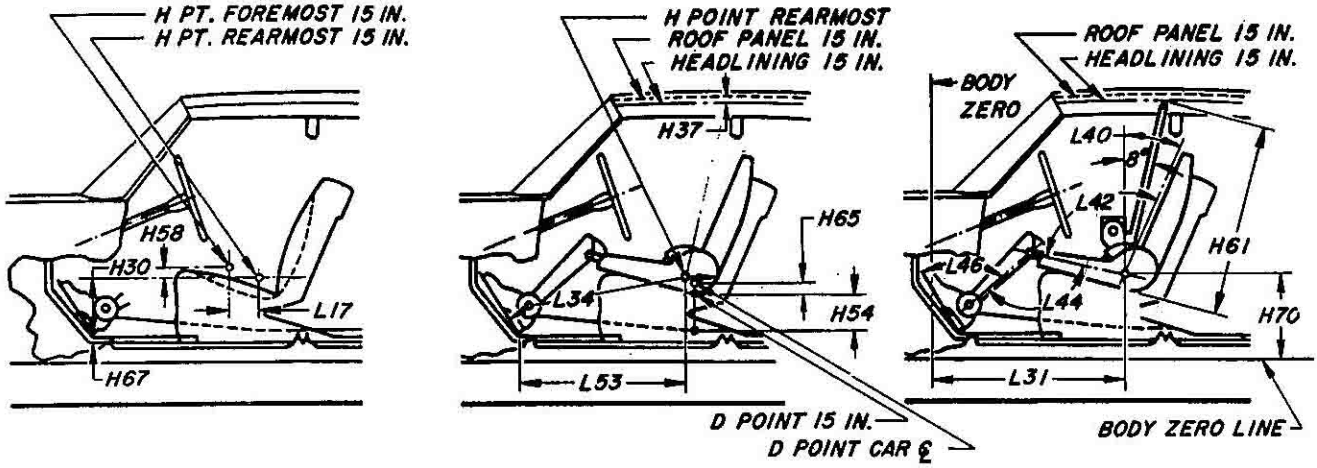


MODEL	Ref. No.	3819	3829	3839	3847	3867
Front bumper to ground	H102	12.45	12.45	12.45	12.45	12.57
Rear bumper to ground	H104	9.85	9.85	9.85	9.85	9.98
Angle of approach	H106	24°50'	24°50'	24°50'	24°50'	24°50'
Angle of departure	H107	10°50'	10°50'	10°50'	10°50'	10°50'
Ramp breakover angle	H147	10°20'	10°20'	10°20'	10°20'	10°20'
Front suspension to ground	H148	6.23	6.23	6.23	6.23	6.35
Oil pan to ground	H149	6.04	6.04	6.04	6.04	6.16
Flywheel housing to ground	H150	6.10	6.10	6.10	6.10	6.22
Frame structure to ground	H151	5.36	5.36	5.36	5.36	5.49
Exhaust system to ground	H152	5.63	5.63	5.63	5.63	5.76
Rear axle differential to ground	H153	6.75	6.75	6.75	6.75	6.75
Fuel tank to ground	H154	6.55	6.93	6.93	6.93	7.06
Spare tire well to ground	H155	-	-	-	-	-
Minimum running ground clearance	H156	5.02	5.36	5.36	5.36	5.49

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

FRONT COMPARTMENT DIMENSIONS

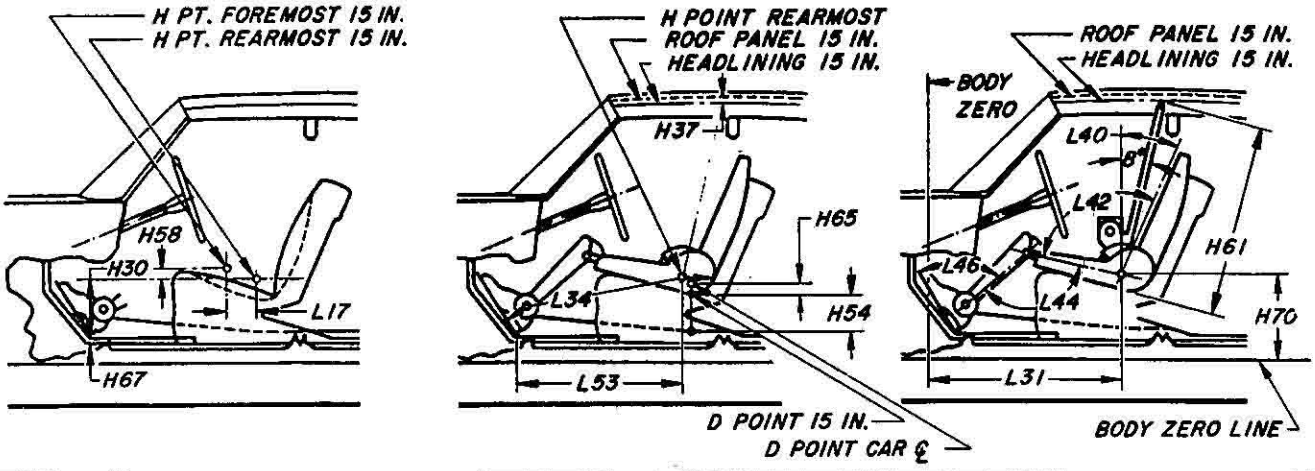


MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
H Point to body zero line	L31	41.2	42.7	41.2	42.9	42.9	42.7	42.7	42.7
H Point to body zero line – front	H70	NA	NA	NA	NA	NA	NA	NA	NA
Effective head room	H61	39.0	38.4	39.0	38.1	39.2	39.4	38.4	39.4
Headlining to roof height	H37	.7	.7	.7	.5	-	.5	.7	.5
Maximum effective leg room – accelerator	L34	40.6	42.0	40.6	42.2	42.2	42.0	42.0	42.0
H Point to heel point	H30	9.5	9.0	9.5	9.1	9.1	9.0	9.0	9.0
Depressed floor covering thickness	H67	.7	.7	.7	.7	.7	.7	.7	.7
Back angle	L40	30°	27°	30°	26°	26°	27°	27°	27°
Hip angle	L42	107°	100°	107°	100°	100°	100°	100°	100°
Knee angle	L44	140°	129°	140°	131°	131°	129°	129°	129°
Foot angle	L46	111°	84°	111°	86°	86°	84°	84°	84°
D Point differential, side to center	H65	.3	.7	.3	.6	.6	.7	.7	.7
D Point to tunnel	H54	3.4	3.1	3.4	3.1	3.1	3.1	3.1	3.1
H Point to accelerator floor point	L53	33.0	34.4	33.0	34.5	34.5	34.4	34.4	34.4
H Point travel	L17	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
H Point rise	H58	.7	.8	.7	.9	.9	.8	.8	.8

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

FRONT COMPARTMENT DIMENSIONS

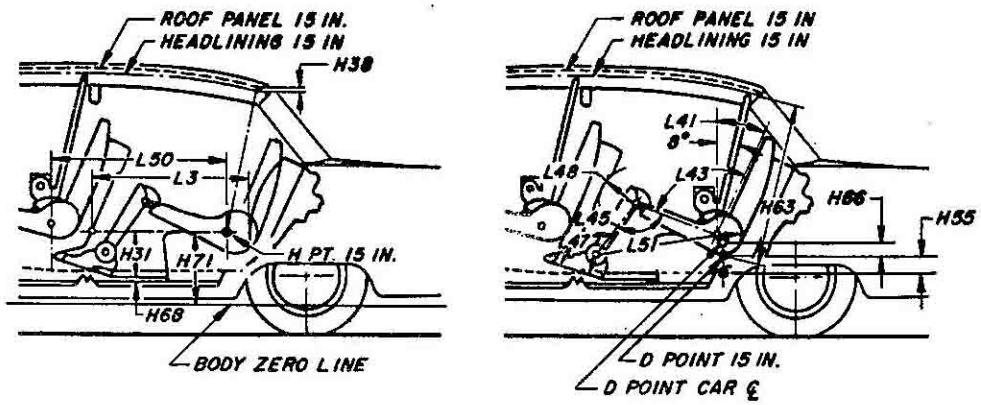


MODEL	Ref. No.	3819	3829	3839	3847	3867
H Point to body zero line	L31	42.9	42.9	42.9	42.7	42.7
H Point to body zero line - front	H70	NA	NA	NA	NA	NA
Effective head room	H61	40.0	40.0	38.5	38.4	39.5
Headlining to roof height	H37	.5	.5	.5	.5	-
Maximum effective leg room - accelerator	L34	42.1	42.1	42.1	42.0	42.0
H Point to heel point	H30	8.8	8.8	8.8	9.0	9.0
Depressed floor covering thickness	H67	.7	.7	.7	.7	.7
Back angle	L40	26°	26°	26°	25.5°	25.5°
Hip angle	L42	99°	99°	99°	98.5°	98.5°
Knee angle	L44	130°	130°	130°	129°	129°
Foot angle	L46	85°	85°	85°	84°	84°
D Point differential, side to center	H65	.4	.7	.4	.5	.5
D Point to tunnel	H54	2.6	3.0	2.6	2.8	2.8
H Point to accelerator floor point	L53	34.6	34.6	34.6	34.4	34.4
H Point travel	L17	4.7	4.7	4.7	5.1	5.1
H Point rise	H58	.9	.9	.9	.9	.9

AMA Specifications -- Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 9-28-63 **REVISED(•)**

REAR COMPARTMENT DIMENSIONS



MODEL	Ref. No.	3819	3829	3839	3847	3867
H Point couple distance	L50	36.92	36.92	35.18	35.43	35.11
H Point to body zero line - rear	H71	NA	NA	NA	NA	NA
Effective head room	H63	38.8	38.8	38.0	38.1	37.9
Headlining to roof height	H38	.6	.6	.6	.6	-
Minimum effective leg room	L51	40.2	40.2	37.9	37.5	37.1
H Point to heel point	H31	11.4	11.4	10.4	10.3	10.3
Depressed floor covering thickness	H68	.4	.4	.4	.4	.4
Minimum knee room	L48	6.0	6.0	4.7	4.9	4.6
Rear compartment room	L3	29.9	29.9	27.8	27.8	27.6
Back angle	L41	28°	28°	21°	21.5°	22°
Hip angle	L43	100°	100°	85°	85°	84.5°
Knee angle	L45	117°	117°	104°	102°	100°
Foot angle	L47	132°	132°	127°	127°	126°
D Point differential, side to center	H66	.8	.8	.9	1.7	1.3
D Point to tunnel	H55	1.7	1.7	.7	1.4	1.0

AMA Specifications -- Passenger Car

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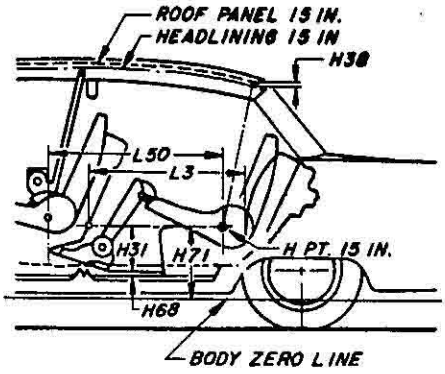
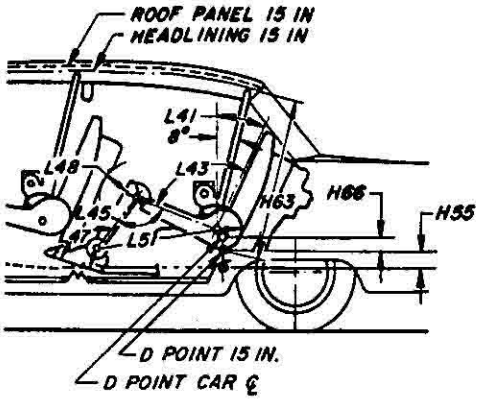
REAR COMPARTMENT DIMENSIONS



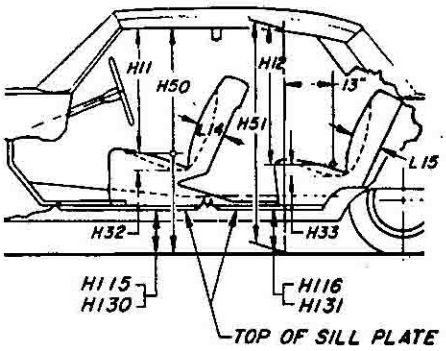


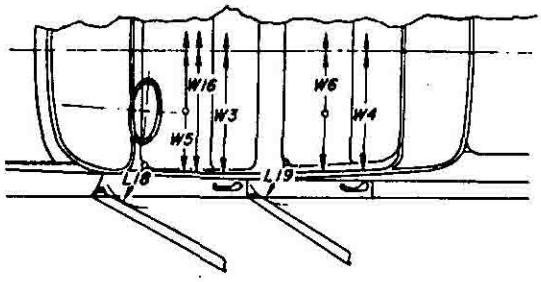
MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
H Point couple distance	L50	35.28	34.20	35.28	32.63	32.15	34.20	34.07	34.20
H Point to body zero line - rear	H71	NA	NA	NA	NA	NA	NA	NA	NA
Effective head room	H63	38.7	36.8	38.7	38.2	38.0	37.7	37.0	37.7
Headlining to roof height	H38	.7	.8	.7	.6	-	1.0	.8	1.0
Minimum effective leg room	L51	38.0	36.8	38.0	34.4	33.8	36.8	36.5	36.7
H Point to heel point	H31	13.2	11.6	13.2	10.1	10.3	11.6	11.4	11.6
Depressed floor covering thickness	H68	.4	.4	.4	.4	.4	.4	.4	.4
Minimum knee room	L48	4.2	3.2	4.2	2.7	2.2	3.2	3.2	3.2
Rear compartment room	L3	29.2	26.0	29.2	25.1	24.6	26.8	26.0	26.6
Back angle	L41	24°	26°	24°	18°	20°	26°	26°	26°
Hip angle	L43	94°	91.5°	94°	76°	77°	91.5°	90.5°	91°
Knee angle	L45	107°	98.5°	107°	87°	85°	98.5°	97°	98°
Foot angle	L47	122°	121.5°	122°	120°	118°	121.5°	121.5°	121.5°
D Point differential, side to center	H66	.7	.9	.7	1.6	1.3	.9	1.0	.9
D Point to tunnel	H55	2.8	1.8	2.8	.9	.8	1.8	1.8	1.8

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(•) _____

SEAT AND ENTRANCE DIMENSIONS





	Ref. No.	3819	3829	3839	3847	3867
Shoulder room – front	W3	58.5	58.5	58.5	58.7	58.7
Hip room – front	W5	63.5	63.5	63.5	63.4	63.4
Seat width – front	W16	57.6	57.6	57.6	57.6	57.6
Upper body opening to ground – front	H50	51.1	51.2	50.0	50.0	49.1
Entrance height – front	H11	31.2	31.2	30.0	30.0	29.0
Step height – front (design load)	H115	13.65	13.65	13.65	13.55	13.67
Step height – front (curb load)	H130	15.47	15.47	15.47	15.43	15.43
Entrance foot clearance – front	L18	15.4	15.4	15.4	15.4	15.4
Seat cushion deflection – front	H32	4.7	4.7	4.7	4.8	4.8
Seat back thickness – front	L14	7.5	7.5	7.5	7.5	7.5
Shoulder room – rear	W4	57.7	57.7	57.7	57.4	48.5
Hip room – ream	W6	63.2	62.7	63.9	54.9	51.2
Upper body opening to ground – rear	H51	50.7	50.7	48.9	-	-
Entrance height – rear	H12	31.1	31.1	30.3	-	-
Step height – rear (design load)	H116	13.20	13.20	13.20	-	-
Step height – rear (curb load)	H131	15.36	15.36	15.36	-	-
Entrance foot clearance – rear	L19	13.7	13.9	12.8	10.5	9.9
Seat cushion deflection – rear	H33	4.4	4.4	4.4	4.5	4.6
Seat back thickness – rear	L15	7.6	7.6	7.4	7.6	7.6

AMA Specifications – Passenger Car

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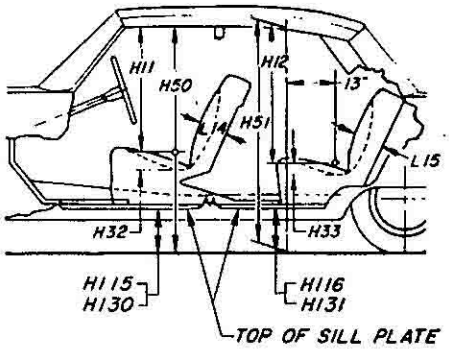
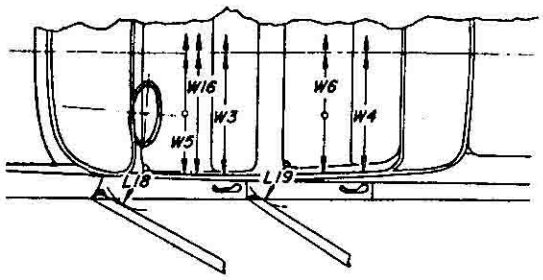
SEAT AND ENTRANCE DIMENSIONS

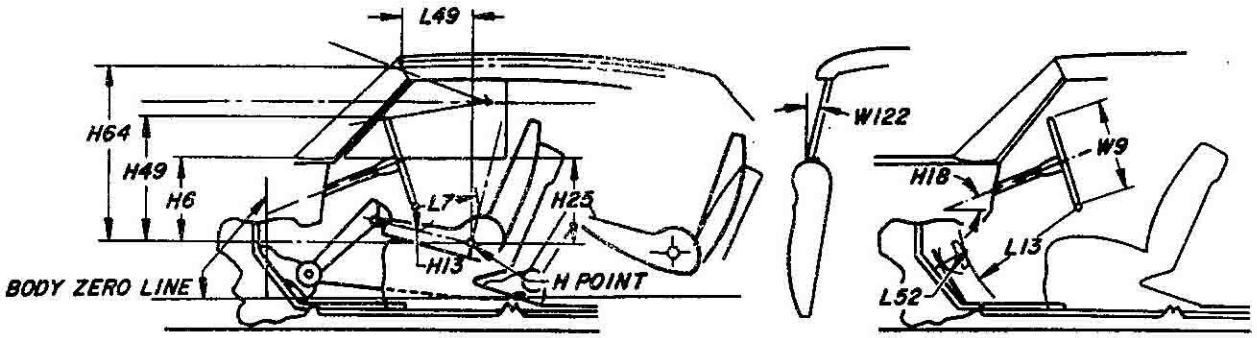




	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
Shoulder room – front	W3	58.8	58.7	58.8	58.8	58.8	58.7	58.7	58.7
Hip room – front	W5	63.3	63.5	63.3	63.6	63.6	63.5	63.5	63.5
Seat width – front	W16	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
Upper body opening to ground – front	H50	51.2	50.5	51.2	49.3	49.0	50.4	50.5	50.4
Entrance height – front	H11	29.6	30.4	29.6	29.1	28.7	30.3	30.4	30.3
Step height – front (design load)	H115	14.36	13.62	14.36	13.52	13.61	13.62	13.62	13.62
Step height – front (curb load)	H130	15.65	15.39	15.65	15.36	15.36	15.39	15.39	15.39
Entrance foot clearance – front	L18	14.4	15.4	14.4	15.4	15.4	15.4	15.4	15.4
Seat cushion deflection – front	H32	3.9	4.3	3.9	4.1	4.1	4.3	4.6	4.6
Seat back thickness – front	L14	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5
Shoulder room – rear	W4	57.9	58.2	57.9	57.5	51.5	58.2	58.2	58.2
Hip room – ream	W6	63.3	63.3	63.3	55.2	–	63.2	63.2	63.1
Upper body opening to ground – rear	H51	51.1	49.7	51.1	–	–	49.9	49.7	49.9
Entrance height – rear	H12	29.0	29.9	29.0	–	–	30.1	30.2	30.1
Step height – rear (design load)	H116	14.37	13.19	14.37	–	–	13.19	13.19	13.19
Step height – rear (curb load)	H131	15.75	15.32	15.75	–	–	15.32	15.32	15.32
Entrance foot clearance – rear	L19	14.4	11.0	14.4	9.0	9.0	11.1	11.0	11.1
Seat cushion deflection – rear	H33	1.9	3.7	1.9	4.4	4.5	3.6	4.0	4.2
Seat back thickness – rear	L15	5.5	8.2	5.5	7.3	7.6	7.7	8.2	7.7

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 9-28-63 **REVISED(•)**

VISION AND CONTROL DIMENSIONS

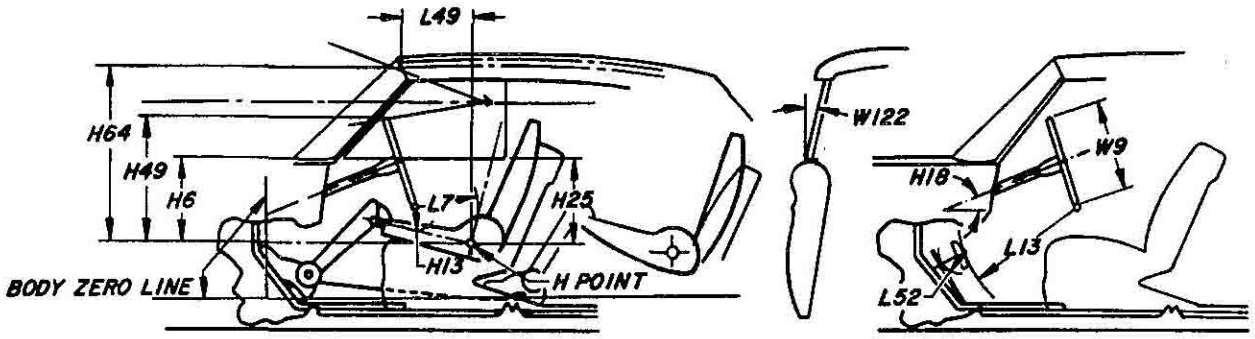


MODEL	Ref. No.	3819	3829	3839	3847	3867
H Point to windshield bottom DLO	H6	19.3	19.3	19.3	19.2	19.2
H Point to windshield upper DLO	H64	33.3	33.3	32.1	32.0	32.0
H Point to windshield upper DLO	L49	12.4	12.4	14.5	14.3	14.3
Belt height - front	H25	17.1	17.1	17.1	17.0	17.0
Steering wheel center to centerline of car	W7	15.9	15.9	15.9	15.9	15.9
Steering wheel maximum outside diameter	W9	16.0	16.0	16.0	16.0	16.0
Steering column angle - horizontal	H18	28°	28°	28°	28°	28°
H Point to top of steering wheel	H49	22.9	22.9	22.9	22.8	22.8
Steering wheel torso clearance	L7	12.5	12.5	12.5	12.3	12.3
Steering wheel thigh clearance	H13	5.3	5.3	5.3	5.2	5.2
Brake pedal knee clearance	L13	27.6	27.6	27.6	27.5	27.5
Brake pedal to accelerator	L52	-1.3	-1.3	-1.3	-1.4	-1.4
Tumble-home	W122	11.8°	11.8°	11.8°	11.8°	11.8°

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 9-28-63 **REVISED(•)**

VISION AND CONTROL DIMENSIONS



MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
H Point to windshield bottom DLO	H6	18.5	19.2	18.5	19.0	19.0	19.2	19.2	19.2
H Point to windshield upper DLO	H64	32.4	31.2	32.4	31.8	31.7	33.0	31.2	33.0
H Point to windshield upper DLO	L49	10.7	15.2	10.7	14.5	14.5	12.3	15.2	12.3
Belt height – front	H25	16.3	17.0	16.3	16.8	16.8	17.0	17.0	17.0
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	16.0	16.0	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	H49	22.0	22.7	22.0	22.6	22.6	22.7	22.7	22.7
Steering wheel torso clearance	L7	10.5	12.4	10.5	12.4	12.4	12.4	12.4	12.4
Steering wheel thigh clearance	H13	5.9	5.2	5.9	5.1	5.1	5.2	5.2	5.2
Brake pedal knee clearance	L13	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
Brake pedal to accelerator	L52	-4.7	-4.6	-4.7	-4.7	-4.7	-4.6	-4.6	-4.6
Tumble-home	W122	11.9°	11.9°	11.9°	11.9°	11.9°	11.9°	11.9°	11.9°

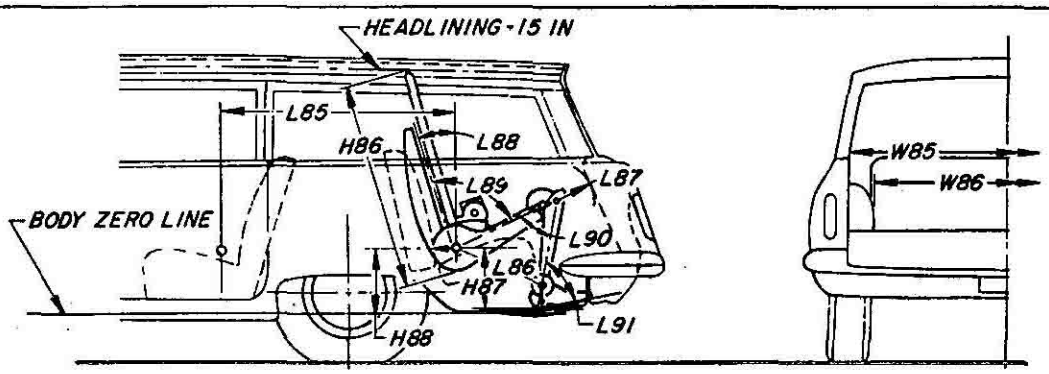
AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(•) _____

LUGGAGE COMPARTMENT

MODEL	Ref. No.	3819	3829	3839	3847	3867
Usable luggage capacity (See instructions)		19.7	19.7	19.7	19.7	19.7
Liftover height	H195	26.7	26.7	26.7	26.7	26.8
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 - All				

THIRD SEAT DIMENSIONS



MODEL	Ref. No.	
Seat facing direction		
Shoulder room	W85	
Hip room	W86	
H Point couple distance	L85	
H Point to body zero line – third seat	H88	
Effective head room	H86	
Effective leg room	L86	
H Point to heel point	H87	
Knee room	L87	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

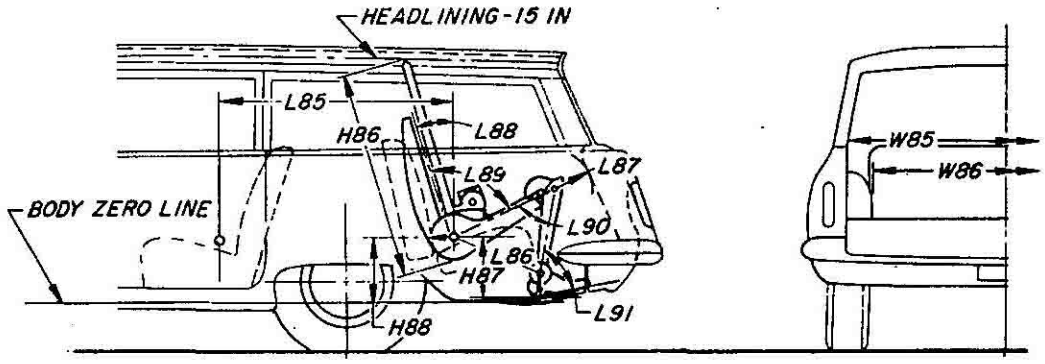
AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(•)

LUGGAGE COMPARTMENT

MODEL	Ref. No.	3435	3439	3445	3447	3467	3469	3539	3569
Usable luggage capacity (See instructions)		-	17.1	-	17.1	17.1	17.1	17.1	17.1
Liftover height	H195	-	27.6	-	27.6	27.7	27.6	27.6	27.6
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 - All							

THIRD SEAT DIMENSIONS

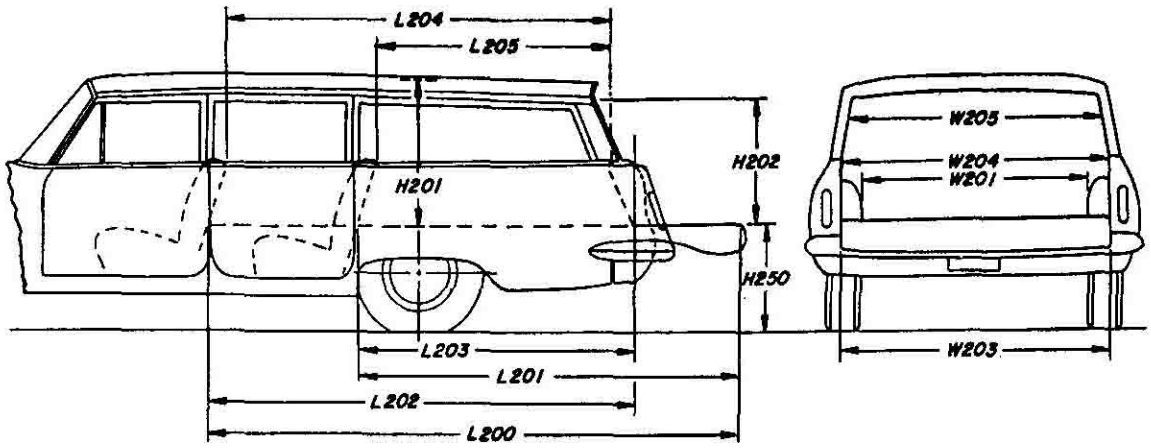


MODEL	Ref. No.	3445
Seat facing direction		Rear
Shoulder room	W85	49.2
Hip room	W86	37.4
H Point couple distance	L85	43.1
H Point to body zero line – third seat	H88	
Effective head room	H86	38.6
Effective leg room	L86	29.2
H Point to heel point	H87	12.0
Knee room	L87	8.2
Back angle	L88	21°
Hip angle	L89	79°
Knee angle	L90	67°
Foot angle	L91	98°

AMA Specifications–Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1964 **DATE ISSUED** 9-28-63 **REVISED**(•)

STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	3435	3445
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	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
Floor length from back of front seat at floor level to inside of closed tail gate	L202	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
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	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
Maximum width of cargo space at floor – specify location	W200	62.1	62.1
Minimum distance between wheel houses at floor level	W201	48.5	48.5
Rear end opening width at floor	W203	54.4	48.8
Rear end opening width at belt	W204	54.7	54.7
Maximum width of rear opening above belt	W205	54.2	54.2
Maximum height – floor covering to headlining at centerline of rear axle	H201	31.2	31.2
Maximum height of rear opening – tail and lift gates open	H202	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
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

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (e)

BODY—MISCELLANEOUS INFORMATION

		MODEL 3400	3500	3800
Drs. hinged (front, rear)	Front doors	Front		
	Rear doors	Front		
Type of finish (lacquer, enamel, other)		Lacquer		
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	Zig Zag		
	3rd seat	Zig Zag		
Seat back type	Front	Zig Zag		
	Rear	Zig Zag		
	3rd seat	Zig Zag		
Windshield glass type (i.e., single curved - laminated plate)		Compound Curve		
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved - One Piece		
Side glass type (i.e., curved - tempered plate)		Flat		
Side glass exposed surface area		See Supplement A*		
Windshield glass exposed surface area		See Supplement B*		
Backlight glass exposed surface area		See Supplement C*	Supplementary Page	
Total glass exposed surface area		See Supplement D*		

BODY—CONVENIENCE EQUIPMENT (Indicate whether standard, optional or NA on each series)

Power windows	Side Windows	Opt.	Opt.	Std.
	Vent Windows	Opt.	Opt.	Opt.
	Backlight or tailgate	Opt. 3435 - Std. on 3445	NA	N. A.
Power seats (specify type as well as availability)		Opt. Bench	Opt. Bench	Opt. Bench
Reclining front seat back		NA	NA	NA
Front seat headrest		NA	NA	NA
Radios (specify type as well as availability)		Opt. *	Opt. *	Opt. *
Rear seat speaker		Opt.	Opt.	Opt.
Power Antenna		Opt.	Opt.	Opt.
Clock		Opt.	Opt.	Std.
Air Conditioner (specify type and availability)		Opt.	Opt.	Opt.

* DeLuxe
Super DeLuxe
AM-FM DeLuxe

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

SUPPLEMENTARY INFORMATION

MODEL		3400	3500	3800
4 Door Sedan	A	1425.5	1425.5	1800.9
	B	1650.8	1650.8	1650.8
	C	1338.4	1338.4	1221.1
	D	4414.7	4414.7	4672.8
4 Door Hardtop Sedan 6 Window	A	-	-	1897.3
	B	-	-	1650.8
	C	-	-	1221.1
	D	-	-	4769.2
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
2 Door Hardtop Coupe	A	1336.8	-	1449.6
	B	1522.6	-	1522.6
	C	994.7	-	1289.4
	D	3854.1	-	4261.6
2 Door Convertible	A	1208.6	-	1285.6
	B	1522.6	-	1522.6
	C	1350.0	-	1350.0
	D	4081.2	-	4158.20
Station Wagon	A	2856.2	-	-
	B	1650.8	-	-
	C	991.0	-	-
	D	5498.0	-	-

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (•)

WEIGHTS

Model	CURB WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING * WEIGHT
3469	2313	1839	4152					3980
3439	2327	1871	4198					4026
3447	2298	1804	4102					3930
3467	2333	1870	4203					4031
3435	2204	2272	4476					4304
3445	2190	2321	4511					4339
3569	2327	1867	4194					4022
3539	2340	1898	4238					4066
3819	2432	1971	4403					4231
3839	2470	2026	4496					4324
3829	2478	2029	4507					4335
3847	2428	1940	4368					4196
3867	2454	1970	4424					4252

Accessories & Equipment Differential Weights				Remarks
Electric 4-window lift			21.8	
Electric 4-way seat			15.6	
Electric 6-way seat			21.6	
Floor Mats			8.7	
Power Brakes			7.3	
Hydramatic			14.1	
Power Steering			35.3	
Deluxe Wheel Discs			16.3	
Radio			8.6	
Air Conditioning			142.2	

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

DIMENSION DEFINITIONS

W3 SHOULDER ROOM - FRONT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W4 SHOULDER ROOM - REAR. Measured in the same manner as W3.

W5 HIP ROOM - FRONT. The lateral dimension through H Point to trimmed surfaces.

W6 HIP ROOM - REAR. Measured in the same manner as W5.

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.

W16 SEAT WIDTH - FRONT. The maximum trimmed width of front seat cushion.

W85 SHOULDER ROOM - THIRD SEAT. Measured in the same manner as W3.

W86 HIP ROOM - THIRD SEAT. Measured in the same manner as W5.

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.

W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN. Measured with front doors in maximum hold-open position.

W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN. Measured in same manner as W120.

W122 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.

L7 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.

L17 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.

L31 H POINT TO BODY ZERO LINE - FRONT. Horizontal dimension.

L34 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.

L40 BACK ANGLE - FRONT. The angle between a vertical line through the H Point and the Torso Line.

L41 BACK ANGLE - REAR. Measured in the same manner as L40.

L42 HIP ANGLE - FRONT. The angle between Torso Line and a line extending from knee pivot center to H Point.

L43 HIP ANGLE - REAR. Measured in the same manner as L42.

L44 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.

L45 KNEE ANGLE - REAR. Measured in the same manner as L44.

L46 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.

L47 FOOT ANGLE - REAR. Measured in the same manner as L46.

L48 MINIMUM KNEE ROOM - REAR. The minimum dimension from the knee pivot center to the back of front seat back.

L49 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 H64) with body upper structure.

DIMENSION DEFINITIONS (cont.)

L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

L51 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.

L52 BRAKE PEDAL TO ACCELERATOR. The minimum dimension from center of brake pedal face to accelerator. Measured in the side view.

L53 H POINT TO ACCELERATOR FLOOR POINT. The horizontal dimension from intersection of accelerator and depressed floor covering to the H Point.

L85 H POINT COUPLE DISTANCE - THIRD SEAT. The horizontal dimension from the second seat H Point to the third seat H Point.

L86 EFFECTIVE LEG ROOM - THIRD SEAT. Measured in the same manner as L51. With rear-facing third seat,foot is positioned in foot well or to nearest interference with rear end or rear closure.

L87 KNEE ROOM - THIRD SEAT. Measured in the same manner as L48. With rear-facing third seat,dimension is measured to rear closure.

L88 BACK ANGLE - THIRD SEAT. Measured in the same manner as L40.

L89 HIP ANGLE - THIRD SEAT. Measured in the same manner as L42.

L90 KNEE ANGLE - THIRD SEAT. Measured in the same manner as L44.

L91 FOOT ANGLE - THIRD SEAT. Measured in the same manner as L46.

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.

L128 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.

L129 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.

L130 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.

H6 H POINT TO WINDSHIELD BOTTOM DLO. Vertical dimension.

H11 ENTRANCE HEIGHT - FRONT. The vertical dimension from H Point to upper trimmed body opening.

H12 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.

H13 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.

H25 BELT HEIGHT - FRONT. The vertical dimension from H Point to bottom of side window DLO.

H30 H POINT TO HEEL POINT - FRONT. The vertical dimension from the H Point to the manikin accelerator heel point on the depressed floor covering.

H31 H POINT TO HEEL POINT - REAR. The vertical dimension from the H Point to the manikin heel point on the depressed floor covering.

H32 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.

H33 SEAT CUSHION DEFLECTION - REAR. Measured in the same manner as H32.

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.

H49 H POINT TO TOP OF STEERING WHEEL. The vertical dimension from the H Point to top of steering wheel, in straight-ahead position.

H50 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.

H51 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.

DIMENSION DEFINITIONS (cont.)

H54 D POINT TO TUNNEL - FRONT. The vertical dimension from the D Point, at car centerline, to top of tunnel.

H55 D POINT TO TUNNEL - REAR. Measured same manner as H54.

H58 H POINT RISE. The vertical dimension between the H Point in the most forward and rearward seat position.

H61 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.

H63 EFFECTIVE HEAD ROOM - REAR. Measured same as H61.

H64 H POINT TO WINDSHIELD UPPER DLO. Vertical dimension from H Point to highest horizontal line of vision through windshield at 15 inch section.

H65 D POINT DIFFERENTIAL, SIDE TO CENTER - FRONT. Vertical dimension from side occupant to center occupant D Point.

H66 D POINT DIFFERENTIAL, SIDE TO CENTER - REAR. Measured in the same manner as H65.

H67 DEPRESSED FLOOR COVERING THICKNESS - FRONT. The vertical dimension from manikin accelerator heel point normally to underbody sheet metal immediately below heel point.

H68 DEPRESSED FLOOR COVERING THICKNESS - REAR. Measured same as H67.

H70 H POINT TO BODY ZERO LINE - FRONT. Vertical dimension.

H71 H POINT TO BODY ZERO LINE - REAR. Vertical dimension.

H86 EFFECTIVE HEAD ROOM - THIRD SEAT. Measured in the same manner as H61.

H87 H POINT TO HEEL POINT - THIRD SEAT. Measured in the same manner as H31.

H88 H POINT TO BODY ZERO LINE - THIRD SEAT. Vertical dimension.

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. The angle between the ground and a line tangent to the front tire static loaded radius arc and the first point of interference, i.e. bumper, guard, gravel deflector, fender or other interfering component, excluding license plate.

H107 ANGLE OF DEPARTURE. The angle between the ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e. bumper, guard, gravel deflector, tail pipe, fender or other interfering component, excluding license plate.

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

H112 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 same 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.

H136 BODY ZERO TO GROUND - FRONT. A vertical dimension measured at front wheel centerline.

H137 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 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.

H195 LIFTOVER HEIGHT. Vertical dimension from luggage compartment lower opening to ground.

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