

AMA Specifications – Passenger Car

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

MANUFACTURER OLDSMOBILE	CAR NAME JETSTAR 88	
MAILING ADDRESS LANSING, MICHIGAN 48921	MODEL YEAR 1964	ISSUED: 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.

TABLE OF CONTENTS

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

BODY—TYPES AND STYLE NAMES—

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

<u>BODY STYLES</u>	<u>NO. OF PASSENGERS</u>	<u>JETSTAR 88</u>
4 Door Sedan	6	3369
4 Door Hardtop Sedan	6	3339
2 Door Hardtop Coupe	6	3347
2 Door Convertible Coupe	5	3367

AMA Specifications — Passenger Car

Page 1

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

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	
			3300
Wheelbase (L101)		23	123
Tread	Front (W101)	22	62.2
	Rear (W102)	22	61.06
Maximum Overall Dimensions	Length (L103)	23	215.3
	Width (W103)	22	77.76
	Height (H101)	24	55.9
Transmission— (Specify trade name - opt., not available)	Manual	15	Standard
	Overdrive	16	NA
	Automatic	16	Optional - Jetaway
Axle ratio	Manual	17	3.23
	Overdrive	17	NA
	Automatic	17	3.08
Tire size		18	7.50 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	3.9375 by 3.3850
	Piston displ., cu.in.	2	3.30
	Std. compression ratio	2	10.25:1
	Max. bhp at engine rpm	2	245 @ 4600
	Max. torque at rpm	2	345 @ 2400

AMA Specifications—Passenger Car

Page 2

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

MODEL 3300

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° O.H. V. V-8
Bore and stroke (nominal)	3.9385 x 3.385
Piston displacement, cu. in.	330
Bore spacing (C/L to C/L)	4.625
No. system	L. Bank 1-3-5-7
front to rear	R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
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 Two
	Rear One
Engine installation angle	4°
taxable $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{\text{horsepower}}$	2.5 49.6
Published max. bhp* @ eng. RPM	245 @ 4600
Published max. torque* lb. ft. @ RPM	345 @ 2400
Recommended fuel regular - premium	Premium
Idle speed (spec.)	600
Neutral or drive	Automatic 500 in Drive

ENGINE—PISTONS

Material	Aluminum Alloy
Description and finish	Autothermic, Cam Grind, Tin Plate, Steel Strut
Weight (piston only) oz.	20.670
Clearance limits)	Top land .0275 - .0325
	Skirt Top .00075 - .00225
	Bottom .00075 - .00125
Ring groove depth	No. 1 ring .2035 - .2105
	No. 2 ring .2035 - .2105
	No. 3 ring .1955 - .2025
	No. 4 ring None

*Max. bhp (brake horsepower) and max. torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.

AMA Specifications – Passenger Car

Page 3

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

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		
3300	330	4 Bbl.	10.25:1	290 @ 4800	355 @ 2800	Manual Jetaway	3.23 3.08

AMA Specifications – Passenger Car

Page 4

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

MODEL 3300

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. Lower Ring: Taper Face Parco-Lubrited Taper Face
	Width	#1: .0775 - .0780 #2: .0770 - .0780
	Gap	.010 - .020
Oil	Description - material, type, coating, etc.	Two Rails: Spring Steel Chrome Plated Spacer: Stainless Steel
	Width	Rails: .0235 - .0250 each Spacer - .137 - .139
	Gap	.015 -.055
Expanders		None

ENGINE—PISTON PINS

Material		Steel - S. A. E. #1019
Length		3.126
Diameter		.9803 - .9807
Type	Locked in rod, in piston, floating, etc.	Pressed in Rod
	Bushing	None
	In rod or piston Material	
Clearance	In piston	.0003 - .0005
	In rod	.0008 - .0016 Press
Direction & amount offset in piston		.060 to R. H. of Cylinder Bore Centerline

ENGINE—CONNECTING RODS

Material		Steel - S. A. E. #1140
Weight (oz.)		24.45
Length (center to center)		6.000
Bearing	Material & Type	Moraine 100 Babbitt Steel Backed
	Overall length	.821 - .831
	Clearance (limits)	.0009 - .0030
	End play	(.004 to .009 Preferred) .002 - .013 - 2 Rods per Crankpin

AMA Specifications—Passenger Car

Page 5

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

MODEL 3300

ENGINE—CRANKSHAFT

Material		A. I. S. I #1049 Modified	
Vibration damper type		None	
End thrust taken by bearing (No.)		Three	
Crankshaft end play		.004 - .008	
Main bearing	Material & type		Moraine 100 Babbitt Steel Backed
	Clearance		#1-2-3-4: .0005 - .0031 #5: .0013 - .0039
	Journal dia. and bearing overall length	No. 1	2.50 x .975
		No. 2	2.50 x .975
		No. 3	2.50 x 1.010
		No. 4	2.50 x .975
		No. 5	2.50 x 1.624
		No. 6	None
		No. 7	None
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.12	

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		S. A. E. #1118, 1140, 1141, 1146, G. M. 85M Steel or A. S. T. M. B-310 Sintered Iron
	Camshaft gear or sprocket material		S. A. E. 308 Aluminum with Nylon Teeth Optional : Cast Iron
	Timing chain	No. of links	48
		Width	.750
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard	
Valve rotator, type (intake, exhaust)		None	
Rocker ratio		1.6:1	
Operating tappet clearance (indicate hot or cold)	Intake	None	
	Exhaust	None	
Timing marks on flywheel, damper, other		Camshaft Sprocket - Crankshaft Sprocket	

(Continued)

AMA Specifications—Passenger Car

Page 6

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

MODEL 3300

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	12	
		Closes (°ABC)	58	
		Duration - deg.	250	
	Exhaust	Opens (°BBC)	60	
		Closes (°ATC)	24	
		Duration - deg.	264	
	Valve opening overlap		36	
Intake	Material		S. A. E. 1041, 1047 Steel	
	Overall length		4.740	
	Actual overall head dia.		1.875	
	Angle of seat & face		45°	
	Seat insert material		None	
	Stem diameter		.3432 - .3425	
	Stem to guide clearance		.0010 - .0027	
	Lift (@ zero lash)		.389	
	Outer spring press. and length	Valve closed (lb. @ in.)	80 @ 1.600	
		Valve open (lb. @ in.)	200 @ 1.200	
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper	
		Valve open (lb. @ in.)	-	
	Exhaust	Material		G. M. N82152 Steel
		Overall length		4.728
		Actual overall head dia.		1.562
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		.3427 - .3420		
Stem to guide clearance		.0015 - .0032		
Lift (@ zero lash)		.390		
Outer spring press. and length		Valve closed (lb. @ in.)	80 @ 1.600	
		Valve open (lb. @ in.)	200 @ 1.200	
Inner spring press. and length		Valve closed (lb. @ in.)	Damper	
		Valve open (lb. @ in.)	-	

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

(Continued)

AMA Specifications – Passenger Car

Page 7

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

MODEL 3300

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	35-45 @ 50 MPH
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 Qts.
Oil grade recommended (SAE viscosity and temperature range)	Above 32° F- SAE 10W-30, SAE 20W Below 32° F-Above 0° F- SAE 5W-20, SAE-10W Below 0° F - SAE 5W-20, SAE-5W
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
Muffler No. & type (reverse flow, straight thru, separate resonator)	Reverse Flow
Exhaust pipe dia. (O.D., Branch wall thickness)	.076 x 2.00
Main	.076 x 2.25
Tail pipe diameter (O.D. & wall thickness)	.048 x 2.00

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Optional
		Positive Crankcase Ventilation	
		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 & Air Cleaner	
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap	
	Flame arrestor (screen, check valve, other)	Screen	

AMA Specifications— Passenger Car

Page 8

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

MODEL 3300

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		
	Filler location		Left Rear Quarter Panel		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations		Right Front on Block		
	Pressure range		7 3/4 - 9 PSI		
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Sintered Bronze & Saran Type		
	Locations		Carburetor & 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		
All 3300 Opt.	330	S. M. T. & Jetaway	Rochester Rochester	4GC	1	Prim. 1 7/16 Sec. 11/16
3300 Std.	330	S. M. T. & Jetaway	Rochester	2GC	1	1 7/16

AMA Specifications – Passenger Car

Page 9

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

MODEL 3300

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 PSI
Circulation thermostat	Type (choke, bypass)		Bypass
	Starts to open at (°F)		180°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM @ 1000 pump rpm		18
	Number of pumps		1
	Drive (V-belt, other)		V-Belt
	Bearing type		Ball
By-pass recirculation type (internal, external)			External
Radiator core type (cellular, tube and fin, other)			Tube & Center
Cooling system capacity	With heater (qt.)		17.0
	Without heater (qt.)		16.0
	Opt. equipment-specify (qt.)		18.4 A/C
Water jackets full length of cylinder (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight)	1 Molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	1 Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	1 Molded
		Inside diameter	.75
Fan	Number of blades & Spacing		4 @ 76°
	Diameter		17.25
	Ratio-fan to crankshaft rev.		.85
	Fan cutout type		Clutch A/C Only
	Bearing type		Ball
*Drive belts (indicate belt used by letter)	Fan		49"
	Generator		Same Belt
	Water Pump		Same Belt
	Power Steering		50.62
	Air Conditioning		59.88

* Drive Belt Dimensions	
Angle of V	
Nominal length (SAE)	
Width	

AMA Specifications – Passenger Car

Page 10

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

MODEL 3300

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1980558
	Voltage Rtg. & Total Plates		12 V-66 Plates
	SAE Designation & Amp Hr. Rtg		25 MD - 61 Amp Hrs.
	Location		Engine Compartment - Front LH Side
Generator	Terminal grounded		Negative
	Make		Delco Remy
	Model		1100659
	Type		Self - Rectifying AC
	Ratio—Gen. to Cr/s rev.		2.33
Regulator	Gen. cut-in (hot)—engine rpm		Charge on Idle
	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		1107299 - T-2446
	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)		Solenoid
	Starting procedure		Turn Ignition Key Against Spring Load, to Full Clockwise Position. Cars with Auto. Trans. Must be on Park or Neutral to Start.

(Continued)

AMA Specifications – Passenger Car

Page 11

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

MODEL 3300

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	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		1115191 - T-3153
	Amps	Engine stopped	6.0 at 12V (75° Winding Temp)
		Engine idling	1.35
Distributor	Make		Delco Remy
	Model		1111048
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 2° @ 650 R. P. M.
		Intermediate points deg. @ rpm	15° - 19° @ 2050 R. P. M.
		Max deg. @ rpm	24° - 28° @ 4000 R. P. M.
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° @ 7 in. HG
		Intermediate points, deg @ in Hg	2.5° - 8.2° @ 10 in. HG
			9.4° - 15.2° @ 13 in. HG
			16.5° - 20.0° @ 16.7 in. HG
	Max. deg. in. Hg.	21.5° @ 25 in HG	
	Breaker gap (in.)		.016
	Cam angle (deg.)		28 - 32
	Breaker arm tension (oz.)		19 - 23
	Timing	Crankshaft deg. @ rpm.	
Mark location		Pulley Hub	
Cylinder numbering system (see page 2)		Right Bank 2-4-6-8 Left Bank 1-3-5-7	
Firing order (see page 2)		1-8-4-3-6-5-7-2	
Spark Plug	Make and model		AC445
	Thread (mm)		14MM
	Tightening torque (lb. ft.)		30
	Gap		.030
Cable	Conductor type		Resistance
	Insulation type		Neoprene
	Spark plug protector		Hypolon

ELECTRICAL—SUPPRESSION

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

AMA Specifications – Passenger Car

Page 12

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

MODEL 3300

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	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; Ignition Off 2. Off-Lock Position 3. Accessory On, Ignition through Resistor 4. Accessory Off, Ignition Direct, Solenoid 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 Light & Courtesy Light	On L. H. Toe Pan Controls Headlights Hi & Lo Beams Right of Driver on Instrument Overhang
Other switches	Locations and devices controlled	
	W/S Wiper	Left of Driver on Instrument Panel
	Heater	Right of Driver on Instrument 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 Single Speed (2 Speed Optional)
	Vacuum booster provision	No
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	5.2 - 5.7

AMA Specifications – Passenger Car

Page 13

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

MODEL 3300

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 - L4001 - 2-L4002
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
Glove compartment	1-1893 *
Prkg. brake signal	1-57
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

Heat & Vent	1-1895
Tachometer	1-1895 *
Ash Tray	2-1445
Crusie Control	1-1445
Console Lights	3-90 *
Console Comp.	1-1895 *

* Optional

AMA Specifications – Passenger Car

Page 14

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

MODEL 3300

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
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 7 1/2 (Super Deluxe)
Glove compartment lamp	AGC-5 (G)
Underhood 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
Electric Window or Seat	SFE-20
Trans. Control	AGC-5

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	28.5
		Highest	28.5
	Stop		28.5
	Backup		22.6
	License, rear		23.1
	Directional	Front	24.2
		Rear	28.5
	Headlamp	Inside	31.8
		Outside*	31.8
Distance from C/L of car to center of bulb	Tail	Inside	27.3
		Outside	-
	Stop		27.3
	Backup		13.7
	License, rear		0
	Directional	Front	30.3
		Rear	27.3
	Headlamp	Inside	22.1
		Outside*	30.2

* If single headlamps are used enter here.

AMA Specifications – Passenger Car

Page 15

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

MODEL 3300

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Long - Single Plate	
Type pressure plate springs	Flat	
Effective plate pressure (lb.)	2050	
No. of clutch driven discs	1	
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	10.4 x 6.5
	Total eff. area (sq.in.)	153.5
	Thickness	.135
	Engagement cushioning method	Flat Springs
Release bearing	Type & method of lubrication	Ball - Permanent
Torsional damping	Methods: springs, friction material	Coil Springs - Steel

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Standard
Manual with overdrive (std. or opt.)	NA
Automatic (std. or opt.)	Optional

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		3
Transmission ratios	In first	2.58
	In second	1.48
	In third	1
	In fourth	-
	In reverse	2.58
Synchronous meshing, specify gears		2 & 3
Shift lever location		Steering Column
Lubricant	Capacity (pt.)	2
	Type recommended	Multi-Purpose
	SAE viscosity number	80 or 90
		80
		80

AMA Specifications – Passenger Car

Page 16

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

MODEL 3300

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Overdrive	Type (planetary or other)	
	Manual lockout (yes, no)	
	Downshift accelerator control (yes, no)	N O T
	Minimum cut-in speed	
	Gear ratio	
Lu- bri- cant	Capacity (pt.) (Overdrive only)	
	Separate filler (yes, no)	O F F E R E D
	Type recommended	
	SAE viscosity number	Summer
		Winter
		Ext. cold

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Jetaway				
Type describe		2 Speed with Variable Vane Convertor				
Method of Selection (Lever, Push Button or other)		Lever - Column Mounted				
Selector Pattern		P Park	R Reverse	N Neutral	D Drive	L Low
List gear ratios Selector Pattern and indicate which are used in each selector position		<u>Drive</u>		<u>Low</u>	<u>Reverse</u>	
		1st Gear	1.76	1.76	1.76	
		2nd Gear	Direct			
Max. upshift speeds—drive range		65				
Max. kickdown speeds—drive range		60				
Torque convertor	Number of elements	3				
	Max. ratio at stall	2.7 Low 1.9 High				
	Type of cooling (air, water)	Water				
Lubricant	Capacity—refill (pt.)	18 Dry		5 Refill		
	Type recommended	Type - A - Automatic Trans. Fluid AO-Atf-Suffix A				
Special transmission features		Variable Vane Control to Increase Convertor Torque in 10-60 MPH Range to Provide Added Performance				

DRIVE UNITS—PROPELLER SHAFT

Number used	One	
Type (exposed, torque tube)	Exposed	
Outer diameter x length* x wall thickness	Manual transmission	3.25 Dia. x 59.30 x .065
	Overdrive transmission	NA
	Automatic transmission	3.25 Dia. x 59.08 x .065

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

(Continued)

AMA Specifications – Passenger Car

Page 17

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

MODEL _____ 3300

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		
Universal joints	Make		S. S. G. & Dana
	Number used		2
	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)		Spicer Type - Hypoid - Semi-Floating	
Limited Slip differential, type		Cone Clutch	
Drive Pinion Offset		1.50	
No. of differential pinions		2	
Gear ratios (Std. equip.)	Manual transmission	3.23:1	
	Overdrive transmission	NA	
	Automatic transmission	3.08:1	
Ring gear O.D. (std. ratio)		8.12	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj. (shim, other)		Coll. Spacer	
Wheel bearing type		Ball	
Lubricant	Capacity (pt.)	2.75	
	Type recommended	Multi-Purpose Mil-L-2105B	
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	90

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.23:1	3.08:1
No. of teeth	Pinion	13	13
	Ring gear	42	40

AMA Specifications – Passenger Car

Page 18

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

MODEL 3300

DRIVE UNITS—WHEELS

Type & material		
Rim (size and flange type)	Std.	14 x 6 JK
	Opt.	Same
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4 3/4"
	Number and size	5 x 7/16

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	750 x 14 Two Ply
	Type - Nylon, etc.	Rayon
Rev/mile at 50 mph.		783
Inflation press.(cold)	Front	24
	Rear	24
Optional tires - size and ply		Factory Installed Air Conditioning 800 x 14 Two Ply Oversize Option 800 x 14 Two Ply

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)			Duo Servo
Self adjusting (std., opt., N.A.)			Self Adjusting Standard
Hydraulic system type (single, dual, etc.)			Single
Power brake make & type (remote, integral, etc.)			Integral (Moraine & Bendix)
Effective area (sq. in.)*			155.6
Gross lining area (sq. in.)**			156.3
Swept drum area (sq. in.)***			267.8
Percent brake effectiveness—front			55%
Drum	Diameter	Front	9 1/2 Inches
		Rear	9 1/2 Inches
	Type and material		Centrifugal Cast & Composite Option on Rears
Wheel cylinder bore	Front	1 1/16 Inches	
	Rear	15/16 Inches	
Master cylinder bore			1.0 Inches Manual 7/8 Inches Power
Available pedal travel			5.50 Manual 3.82 Power
Line pressure at 100 lb. pedal load			750 P. S. I. Manual 730 @ 40# Pedal Load
Shoe clearance adjustment			.015 Inches

(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.

AMA Specifications – Passenger Car

Page 18 ^A

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

MODEL 3300

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	HEAVY DUTY METALLIC LINING OPTION	

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)			Duo Servo
Self adjusting (std., opt., N.A.)			Self Adjusting Standard
Hydraulic system type (single, dual, etc.)			Single
Power brake make & type (remote, integral, etc.)			Integral (Moraine & Bendix)
Effective area (sq. in.)*			118.0
Gross lining area (sq. in.)**			118.0
Swept drum area (sq. in.)***			267.8
Percent brake effectiveness—front			55%
Drum	Diameter	Front	9 1/2 Inches
		Rear	9 1/2 Inches
	Type and material		Centrifugal Cast
Wheel cylinder bore	Front	1 1/16 Inches	
	Rear	15/16 Inches	
Master cylinder bore			1.0 Inches
Available pedal travel			5.50 Manual 3.82 Power
Line pressure at 100 lb. pedal load			750 PSI Manual 560 @ 40# Pedal
Shoe clearance adjustment			.015 Inches

(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.

AMA Specifications—Passenger Car

Page 19 A

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

MODEL 3300

BRAKES—SERVICE (cont.)

Heavy Duty Metallic Lining Option (Cont'd)

Brake lining	Bonded or riveted		Welded	
	Front Shoe	Material	Delco Moraine 70.5	
		Size (length x width x thickness)	Front wheel	6 Segments 1.64 x 1.25 x .175
			Rear wheel	6 Segments 1.64 x 1.00 x .175
		Segments per shoe 6		
	Rear Shoe	Material	Delco Moraine 703	
		Size (length x width x thickness)	Front wheel	10 Segments 1.64 x 1.25 x .285
			Rear wheel	10 Segments 1.64 x 1.00 x .285
		Segments per shoe 10		

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)

AMA Specifications—Passenger Car

Page 19

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (6)

MODEL 3300

BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Marshall H 3144 Primary	
		Size (length x width x thickness)	Front wheel	7.48 x 2.50 x .166
			Rear wheel	7.48 x 2.00 x .166
		Segments per shoe	One	
	Rear Shoe	Material	Marshall H 3152F Secondary	
		Size (length x width x thickness)	Front wheel	9.88 x 2.50 x .231
			Rear wheel	9.88 x 2.00 x .231
		Segments per shoe	One	

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	
		Not Separate	

FRAME or UNITIZED CONSTRUCTION

Type and description	Box Section Side Rails
	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		Rear Suspension Upper 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)

AMA Specifications – Passenger Cars

Page 20

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

MODEL 3300

SUSPENSION FRONT (cont.)

Spring	Type	Coil
	Material	SAE .9260
	Size (coil design height & I.D.; bar length x dia.)	11" Design Height - 4.05 I. D. 156" Long .671 Dia.
	Spring rate (lb. per in.)	300
	Rate at wheel (lb. per in.)	91
	Design load (lb. @ design height)	2245 @ 11"
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE #1070 1.00 Dia.

STEERING

Manual (std., opt., NA)				Standard	
Power (std., opt., NA)				Optional	
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt Type	
		(std., opt., NA)		Optional	
Wheel diameter		Manual		16"	
		Power		16"	
Turning diameter	Outside front	Wall to wall (l. & r.)		45.3	
		Curb to curb (l. & r.)		42.8	
	Inside rear	Wall to wall (l. & r.)		26.7	
		Curb to curb (l. & r.)		27.4	
Outside wheel angle with inside wheel at 20°				Manual 18.1° Power 17.6°	
Manual	Gear	Type		Ball Nut	
		Make		Saginaw Steering	
		Ratios	Gear	24:1	
			Overall	33.2:1	
	No. wheel turns		3.07 (6.14 Total)		
Power	Type (coaxial, linkage, etc.)		Gear Integral		
	Make		Saginaw Steering		
	Gear	Type		Ball Nut	
		Ratios	Gear	17.5:1	
			Overall	21.8:1	
	Pump driven by		Belt from Crank		
	Number wheel turns		4.19 Total		
Linkage	Type		Forged		
	Location (front or rear of wheels, other)		Rear		
	Drag link (trans. or longit.)		Transverse		
	Tie rods (one or two)		2		

(Continued)

AMA Specifications – Passenger Car

Page 21

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

MODEL 3300

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° Neg.
	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	1.2498 - 1.2493
		Outer bearing	.7498-.7493
	Thread size		3/4 - 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 Ht. - 5.50 I. D. 137 " Long .568 Dia.			
	Spring rate (lb. per in.)		100			
	Rate at wheel (lb. per in.)		105.6			
	Design load (lb. at design height)		1040 @ 9"			
	Mounting insulation type		Rubber			
	If leaf	No. of leaves		None		
		Inserts	Type and size	None		
			Material	None		
Shackle (comp. or tens.)			None			
Stabilizer	Type (link, linkless, frameless)		None			
	Material		None			
Track bar type			None			

AMA Specifications – Passenger Car

Page 22

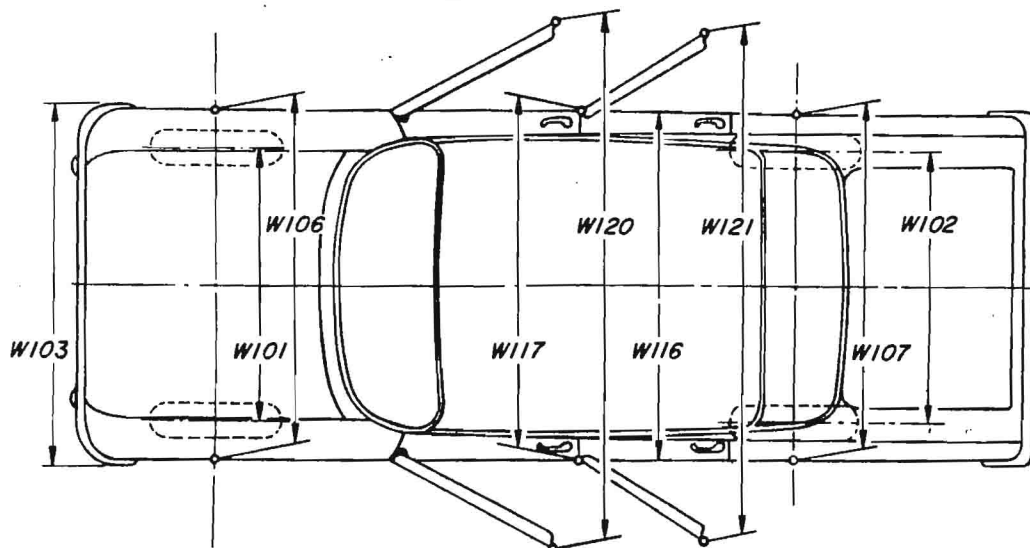
MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED (a)

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



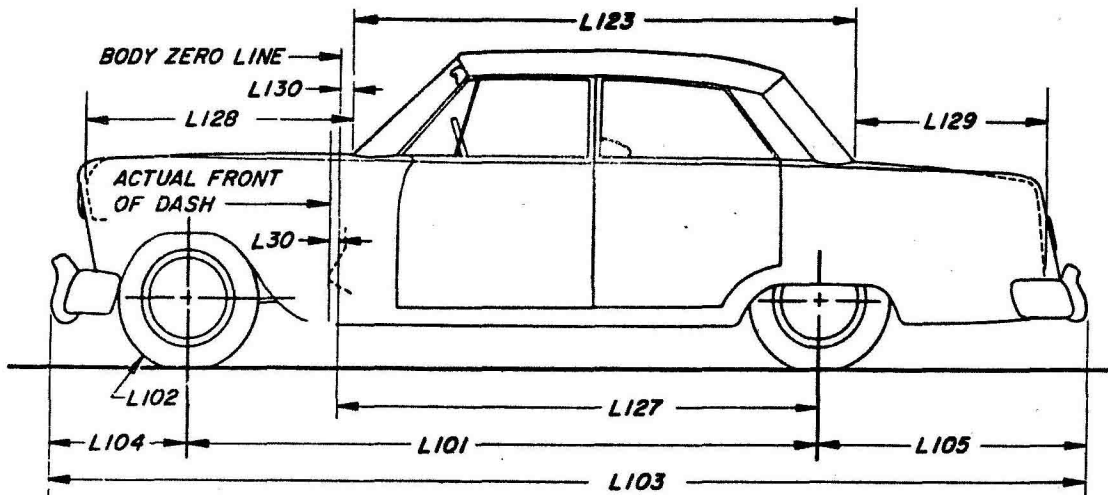
MODEL	Ref. No.	3339	3347	3367	3369
Tread - front	W101	61.06	61.06	61.06	61.06
Tread - rear	W102	61.00	61.00	61.00	61.00
Maximum overall car width	W103	77.76	77.76	77.76	77.76
Maximum overall body width	W116	77.3	77.3	77.3	77.3
Maximum body width at #2 pillar	W117	75.3	-	-	75.3
Front fender overall width	W106	77.4	77.4	77.4	77.4
Rear fender overall width	W107	77.3	77.3	77.3	77.3
Maximum overall car width - front doors open	W120	141.8	155.9	155.9	141.8
Maximum overall car width - rear doors open	W121	139.3	-	-	139.3

AMA Specifications – Passenger Car

Page 23

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

EXTERIOR LENGTH DIMENSIONS



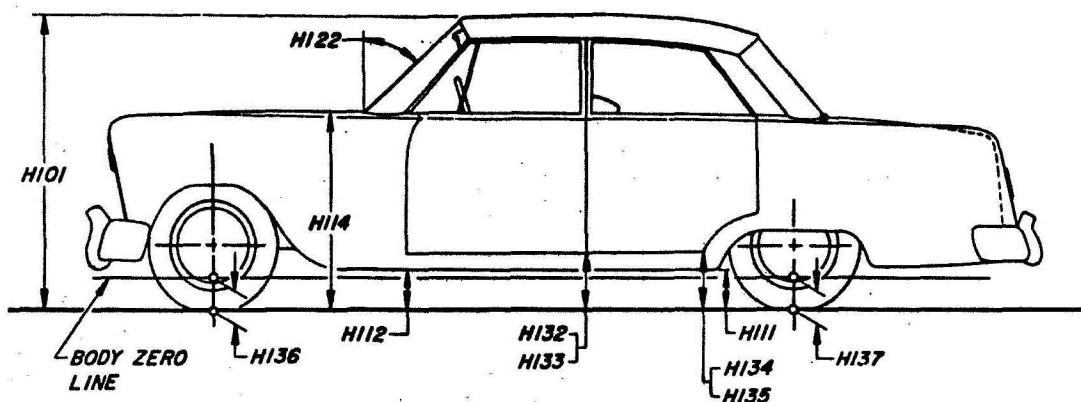
MODEL	Ref. No.	3339	3347	3367	3369
Body zero line to actual front of dash	L30	.54	.54	.54	.54
Wheelbase	L101	123.0	123.0	123.0	123.0
Overhang - front	L104	36.0	36.0	36.0	36.0
Overhang - rear	L105	56.3	56.3	56.3	56.3
Overall length	L103	215.3	215.3	215.3	215.3
Hood length at car centerline	L128	59.4	59.4	59.4	59.4
Body upper structure length at car centerline	L123	106.11	103.54	105.88	103.42
Deck length at car centerline	L129	46.51	49.08	46.74	49.20
Body zero line to centerline of rear wheels	L127	102.0	102.0	102.0	102.0
Body zero line to windshield cowl point	L130	3.89	3.89	3.89	3.89
Tire size	L102	7.50 x 14	7.40 x 14	7.50 x 14	7.50 x 14

AMA Specifications— Passenger Car

Page 24

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

EXTERIOR HEIGHT DIMENSIONS



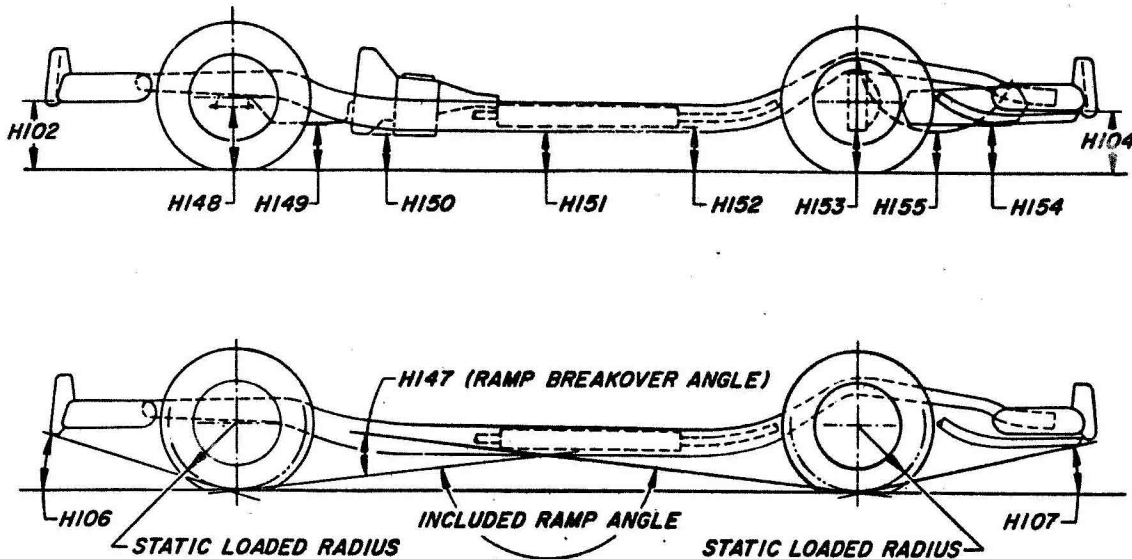
MODEL	Ref. No.	3339	3347	3367	3369
Overall height	H101	55.2	54.7	55.4	55.9
Hood at rear to ground	H114	38.0	38.0	38.0	38.0
Rocker panel to ground - front	H112	8.9	8.9	8.7	8.9
Rocker panel to ground - rear	H111	8.0	8.0	8.1	8.0
Bottom of door to ground, open - front	H132	13.0	13.1	13.0	13.0
Bottom of door to ground, closed - front	H133	11.8	11.7	11.7	11.8
Bottom of door to ground, open - rear	H134	11.5	-	-	11.5
Bottom of door to ground, closed - rear	H135	11.4	-	-	11.4
Windshield slope angle	H122	57.5°	54.5°	54.5°	55°
Body zero to ground - front	H136	5.43	5.43	5.06	5.43
Body zero to ground - rear	H137	4.81	4.81	4.97	4.81

AMA Specifications—Passenger Car

Page 25

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

GROUND CLEARANCE DIMENSIONS



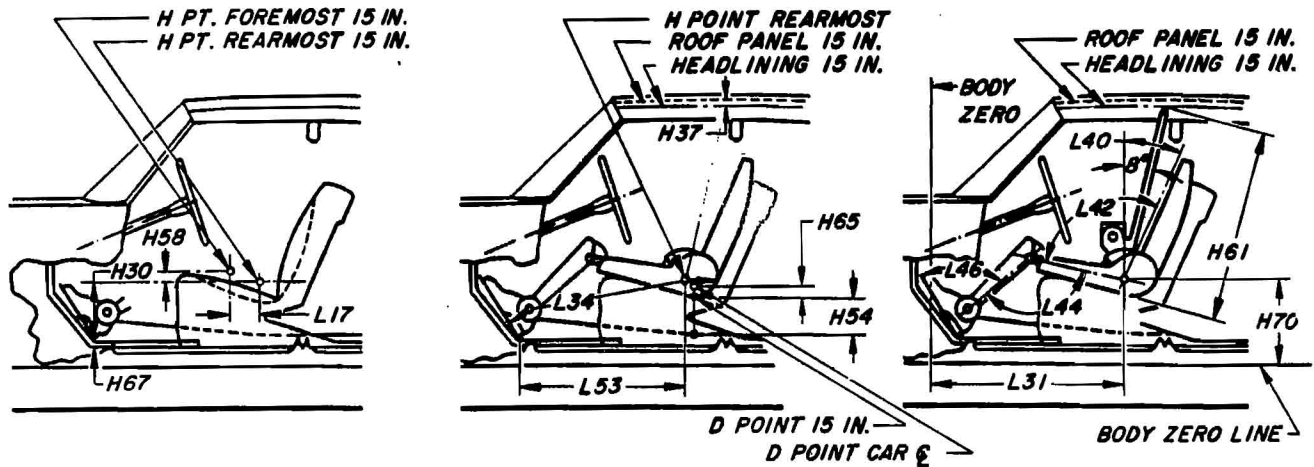
MODEL	Ref. No.	3339	3347	3367	3369
Front bumper to ground	H102	12.19	12.19	11.69	12.19
Rear bumper to ground	H104	10.63	10.63	11.01	10.63
Angle of approach	H106	24° 15'	24° 15'	24° 15'	24° 15'
Angle of departure	H107	12° 4'	12° 4'	12° 4'	12° 4'
Ramp breakover angle	H147	11° 0'	11° 0'	11° 0'	11° 0'
Front suspension to ground	H148	6.02	6.02	5.65	6.02
Oil pan to ground	H149	5.77	5.77	5.45	5.77
Flywheel housing to ground	H150	5.73	5.73	5.43	5.73
Frame structure to ground	H151	5.33	5.33	5.39	5.33
Exhaust system to ground	H152	5.64	5.64	5.59	5.64
Rear axle differential to ground	H153	6.25	6.25	6.25	6.25
Fuel tank to ground	H154	6.95	6.95	7.15	6.95
Spare tire well to ground	H155	-	-	-	-
Minimum running ground clearance	H156	5.33	5.33	5.39	5.33

AMA Specifications—Passenger Car

Page 26

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

FRONT COMPARTMENT DIMENSIONS



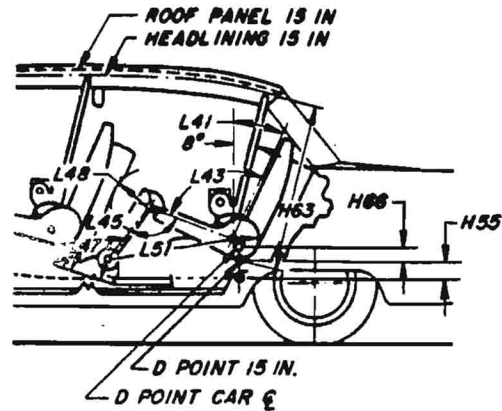
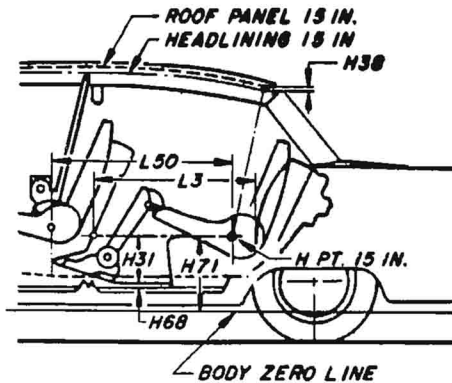
MODEL	Ref. No.	3339	3347	3367	3369
H Point to body zero line	L31	42.7	42.9	42.9	42.7
H Point to body zero line - front	H70	NA	NA	NA	NA
Effective head room	H61	38.4	38.1	39.2	39.4
Headlining to roof height	H37	.7	.5	-	.5
Maximum effective leg room - accelerator	L34	42.0	42.2	42.2	42.0
H Point to heel point	H30	9.0	9.1	9.1	9.0
Depressed floor covering thickness	H67	.7	.7	.7	.7
Back angle	L40	27°	26°	26°	27°
Hip angle	L42	100°	100°	100°	100°
Knee angle	L44	129°	131°	131°	129°
Foot angle	L46	84°	86°	86°	84°
D Point differential, side to center	H65	.7	.6	.6	.7
D Point to tunnel	H54	3.1	3.1	3.1	3.1
H Point to accelerator floor point	L53	34.4	34.5	34.5	34.4
H Point travel	L17	4.8	4.8	4.8	4.8
H Point rise	H58	.8	.9	.9	.8

AMA Specifications – Passenger Car

Page 27

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

REAR COMPARTMENT DIMENSIONS



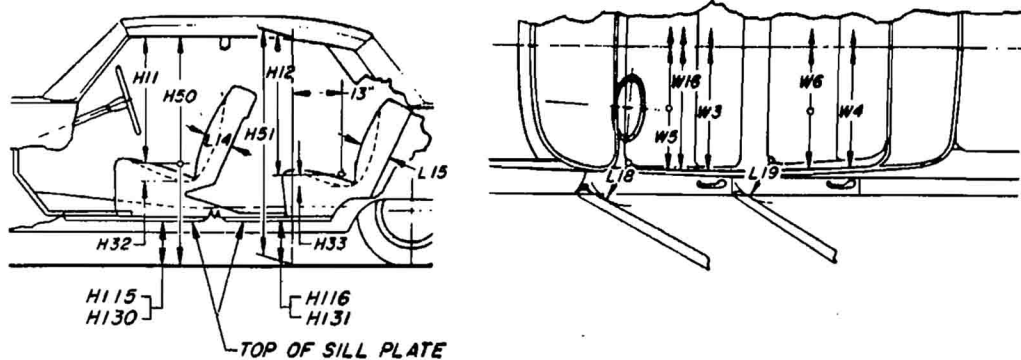
MODEL	Ref. No.	3339	3347	3367	3369
H Point couple distance	L50	34.20	32.63	32.15	34.20
H Point to body zero line - rear	H71	NA	NA	NA	NA
Effective head room	H63	36.8	38.2	38.0	37.7
Headlining to roof height	H38	.8	.6	-	1.0
Minimum effective leg room	L51	36.8	34.4	33.8	36.8
H Point to heel point	H31	11.6	10.1	10.3	11.6
Depressed floor covering thickness	H68	.4	.4	.4	.4
Minimum knee room	L48	3.2	2.7	2.2	3.2
Rear compartment room	L3	26.0	25.1	24.6	26.8
Back angle	L41	26°	18°	20°	26°
Hip angle	L43	91.5°	76°	77°	91.5°
Knee angle	L45	98.5°	87°	85°	98.5°
Foot angle	L47	121.5°	120°	118°	121.5°
D Point differential, side to center	H66	.9	1.6	1.3	.9
D Point to tunnel	H55	1.8	.9	.8	1.8

AMA Specifications – Passenger Car

Page 28

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

SEAT AND ENTRANCE DIMENSIONS



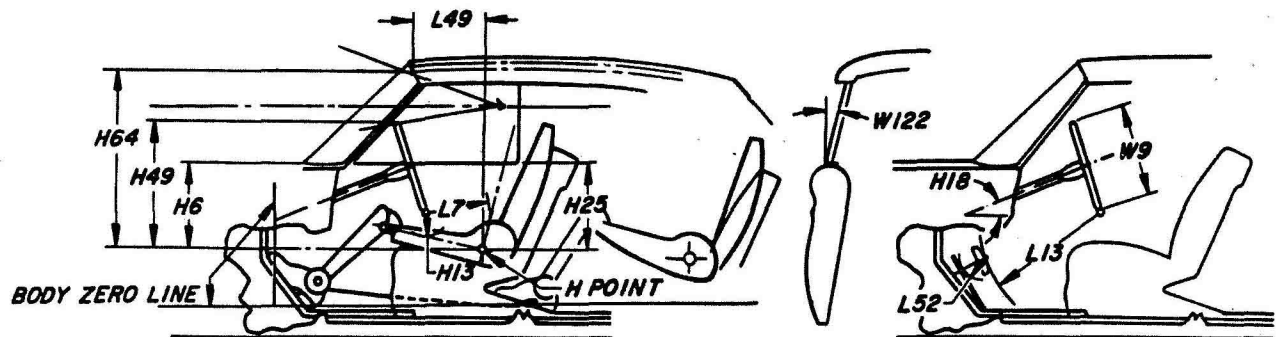
	Ref. No.	3339	3347	3367	3369
Shoulder room - front	W3	58.7	58.8	58.8	58.7
Hip room - front	W5	63.5	63.6	63.6	63.5
Seat width - front	W16	57.6	57.6	57.6	57.6
Upper body opening to ground - front	H50	50.5	49.2	48.7	50.3
Entrance height - front	H11	30.4	29.1	28.7	30.3
Step height - front (design load)	H115	13.53	13.43	13.32	13.53
Step height - front (curb load)	H130	15.39	15.36	15.36	15.39
Entrance foot clearance - front	L18	15.4	15.4	15.4	15.4
Seat cushion deflection - front	H32	4.3	4.1	4.1	4.3
Seat back thickness - front	L14	7.0	7.0	7.0	7.5
Shoulder room - rear	W4	58.2	57.5	51.5	58.2
Hip room - rear	W6	63.3	55.2	51.6	63.2
Upper body opening to ground - rear	H51	49.7	-	-	49.9
Entrance height - rear	H12	29.9	-	-	30.1
Step height - rear (design load)	H116	13.4	-	-	13.4
Step height - rear (curb load)	H131	15.32	-	-	15.32
Entrance foot clearance - rear	L19	11.0	9.0	9.0	11.1
Seat cushion deflection - rear	H33	3.7	4.4	4.5	3.6
Seat back thickness - rear	L15	8.2	7.3	7.6	7.7

AMA Specifications – Passenger Car

Page 29

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED(0)

VISION AND CONTROL DIMENSIONS



MODEL	Ref. No.	3339	3347	3367	3369
H Point to windshield bottom DLO	H6	19.2	19.0	19.0	19.2
H Point to windshield upper DLO	H64	31.2	31.8	31.7	33.0
H Point to windshield upper DLO	L49	15.2	14.5	14.5	12.3
Belt height - front	H25	17.0	16.8	16.8	17.0
Steering wheel center to centerline of car	W7	15.9	15.9	15.9	15.9
Steering wheel maximum outside diameter	W9	16.0	16.0	16.0	16.0
Steering column angle - horizontal	H18	28 °	28 °	28 °	28 °
H Point to top of steering wheel	H49	22.7	22.6	22.6	22.7
Steering wheel torso clearance	L7	12.4	12.4	12.4	12.4
Steering wheel thigh clearance	H13	5.2	5.1	5.1	5.2
Brake pedal knee clearance	L13	24.3	24.3	24.3	24.3
Brake pedal to accelerator	L52	-4.6	-4.7	-4.7	-4.6
Tumble-home	W122	11.9 °	11.9 °	11.9 °	11.9 °

AMA Specifications – Passenger Car

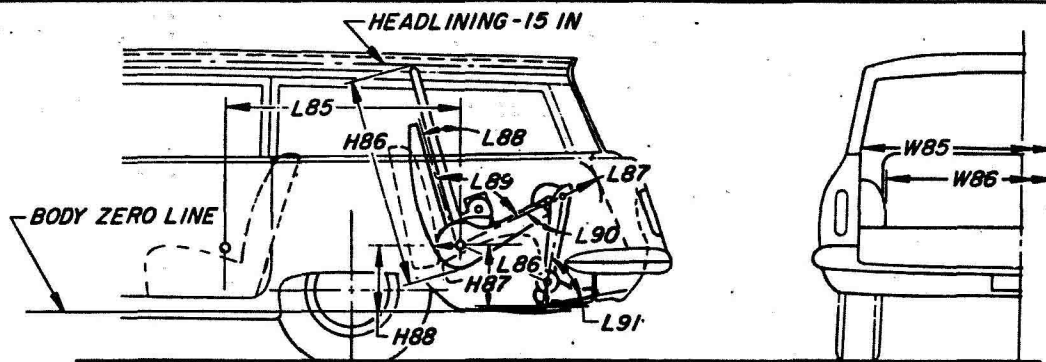
Page 30

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

LUGGAGE COMPARTMENT

MODEL	Ref. No.	
		3300
Usable luggage capacity (See instructions)		17.1
Liftover height	H195	
Position of spare tire storage		On Shelf on All except Convertible that is in Well of Trunk
Method of holding lid open		Counter Balance Torsion Bar

THIRD SEAT DIMENSIONS



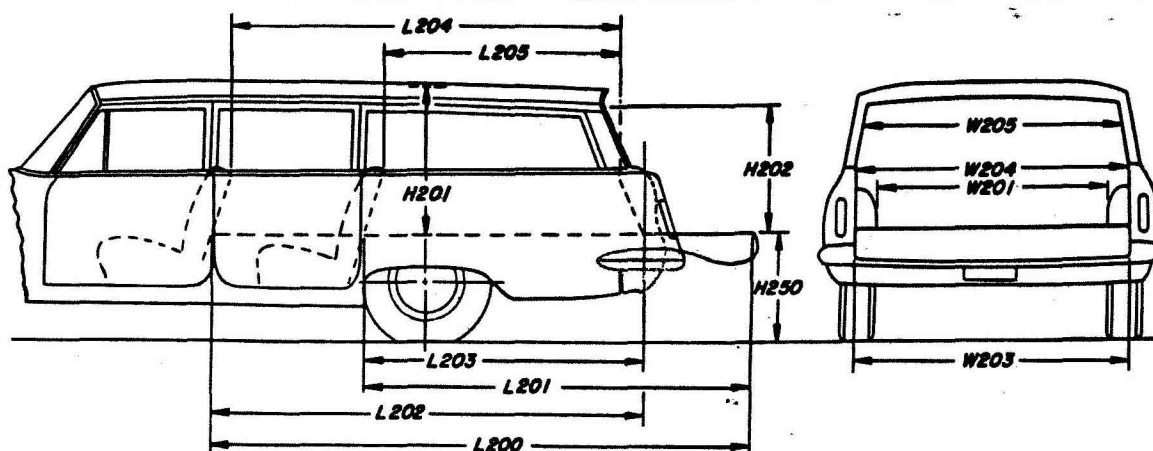
MODEL	Ref. No.	
Seat facing direction		
Shoulder room	W85	
Hip room	W86	
H Point couple distance	L85	NOT
H Point to body zero line - third seat	H88	
Effective head room	H86	OFFERED
Effective leg room	L86	
H Point to heel point	H87	
Knee room	L87	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

AMA Specifications—Passenger Car

Page 31

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

STATION WAGON—CARGO SPACE DIMENSIONS



MODEL	Ref. No.	
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	
Floor length from back of second seat at floor level to inside of closed tail gate	L203	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	NOT
Maximum width of cargo space at floor - specify location	W200	
Minimum distance between wheel houses at floor level	W201	OFFERED
Rear end opening width at floor	W203	
Rear end opening width at belt	W204	
Maximum width of rear opening above belt	W205	
Maximum height - floor covering to headlining at centerline of rear axle	H201	
Maximum height of rear opening - tail and lift gates open	H202	
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250	
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)		
Cargo volume index (cu. ft.) W4 x L204 x H201		
1728		

AMA Specifications - Passenger Car

Page 32

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

MODEL 3300

BODY-MISCELLANEOUS INFORMATION

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		Left Hand Front Pillar Post
Engine No. Location		None
Theft protection - type		
Vent window control method (crank, friction pivot)	Front	Crank
	Rear	-
Seat cushion type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	NA
Seat back type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	NA
Windshield glass type (i.e., single curved - laminated plate)		Compound Curved
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		* A
Windshield glass exposed surface area		* B
Backlight glass exposed surface area		* C
Total glass exposed surface area		* D

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

Power windows	Side Windows	Optional
	Vent Windows	NA
	Backlight or tailgate	NA
Power seats (specify type as well as availability)	4 Way Bench	Opt.
	6 Way Bench	Opt.
Reclining front seat back		NA
Front seat headrest		NA
Radios (specify type as well as availability)	Deluxe	Opt.
	Super Deluxe	Opt.
	A.M.-F.M.	Opt.
Rear seat speaker		Opt.
Power Antenna		Opt.
Clock		Opt.
Air Conditioner (specify type and availability)		Opt.

	<u>3339</u>	<u>3347</u>	<u>3367</u>	<u>3369</u>
* A	1464.8	1336.8	1208.6	1425.5
* B	1468.0	1522.6	1522.6	1650.8
* C	1299.9	994.7	1350.0	1338.4
* D	4232.7	3854.1	4081.2	4414.7

Page 33

WEIGHTS

[illegible][illegible]

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, excluding 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.

INDEX

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