

## 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 <p style="text-align: center;">OLDSMOBILE</p>	CAR NAME <p style="text-align: center;">OLDSMOBILE F-85</p>	
MAILING ADDRESS <p style="text-align: center;">LANSING, MICHIGAN 48921</p>	MODEL YEAR <p style="text-align: center;">1964</p>	ISSUED: 9-28-63 <hr/> 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 TYPE</u>	<u>NO. OF PASSENGERS</u>	<u>STANDARD</u>	<u>DELUXE</u>	<u>CUTLASS</u>
2 Door Pillar Coupe	6 (3027)-5 $\left( \begin{smallmatrix} 3127 \\ 3227 \end{smallmatrix} \right)$	3027	3127 *	3227
2 Door Hardtop Coupe	5	-	-	3237
4 Door Sedan	6	3069	3169	-
2 Door Convertible	5	-	-	3267
4 Door Station Wagon (2-seat)	6	3035	3135	-

\* Offered in V-6 Only

# AMA Specifications – Passenger Car

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

## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	3000-V-8	3100-V-8	3200-V-8	
Wheelbase (L101)	23	115"			
Tread	Front (W101)	58.0			
	Rear (W102)	58.0			
Maximum Overall Dimensions	Length (L103)	203"			
	Width (W103)	73.8"			
	Height (H101)	54.0"	53.7		
Transmission— (Specify trade name - opt., not available)	Manual	Synchromesh			
	Overdrive	N. A.			
	Automatic	Jetaway			
Axle ratio	Manual	3.08:1			
	Overdrive	N. A.			
	Automatic	2.78:1			
Tire size	18	6.50 x 14*	6.50 x 14*	7.00 x 14	
Engine	Type, no. cyl., valve arr.	2 90° V/8 - O. H. V.			
	Fuel system (Carb., other)	8 Carburetor			
	Bore and stroke	2 3.9375 x 3.3850			
	Piston displ., cu.in.	2 330			
	Std. compression ratio	2 9.00:1			
	Max. bhp at engine rpm	2	230 @ 4400	290 @ 4800	
	Max. torque at rpm	2	325 @ 2400	355 @ 2800	

\* 7.00 x 14 with Jetaway Transmission

# AMA Specifications — Passenger Car

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

## GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.	3000 - V-6	3100- V-6
Wheelbase (L101)	23		115"
Tread	Front (W101)	22	58.0
	Rear (W102)	22	58.0
Maximum Overall Dimensions	Length (L103)	23	203"
	Width (W103)	22	73.8"
	Height (H101)	24	54.0"
Transmission— (Specify trade name - opt., not available)	Manual	15	Synchromesh
	Overdrive	16	N. A.
	Automatic	16	Jetaway
Axle ratio	Manual	17	3.23
	Overdrive	17	N. A.
	Automatic	17	3.23
Tire size	18		6.50 x 14
Engine	Type, no. cyl., valve arr.	2	V-6 90° in Head
	Fuel system (Carb., other)	8	Carburetor
	Bore and stroke	2	3.750 x 3.400
	Piston displ., cu.in.	2	225
	Std. compression ratio	2	9.00:1
	Max. bhp at engine rpm	2	155 @ 4400
	Max. torque at rpm	2	225 @ 2400

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED <sup>(\*)</sup>

MODEL 3000 V-6 3100 V-6

## ENGINE—GENERAL

Type, no. cyls., valve arr.	V-6 90° in Head	
Bore and stroke (nominal)	3.750 x 3.400	
Piston displacement, cu. in.	225	
Bore spacing (C/L to C/L)	4.240	
No. system (front to rear)	L. Bank	1-3-5
	R. Bank	2-4-6
Firing order	1-6-5-4-3-2	
Compras. ratio (nominal)	9.00:1	
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		
Taxable horsepower	Dia. 2 x No. Cyl.	2.5
	33.748	
Published max. bhp* @ eng. RPM	155 @ 4400	
Published max. torque* (lb. ft. @ RPM)	225 @ 2400	
Recommended fuel regular - premium	Regular	
Idle speed (spec. neutral or drive)	Manual	550
	Automatic	550 in Drive

## ENGINE—PISTONS

Material	Cast Aluminum Alloy		
Description and finish	Cam Ground - Transverse Slot - Divorced Skirt		
Weight (piston only) oz.	17.34		
Clearance (limits)	Top land	.0215 - .0295	
	Skirt	Top	.0005 - .0011
		Bottom	.0005 - .0021
Ring groove depth	No. 1 ring	.188 - .1955	
	No. 2 ring	.1905 - .198	
	No. 3 ring	.1905 - .198	
	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

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		
3000(Std.) & 3100(Std.)	225	1 Bbl.	9.00:1	155 @ 4400	225 @ 2400	Syncromesh Jetaway	3.23:1 3.23:1
3000(Std.) & *3100(Std.)	330	2 Bbl.	9.00:1	230 @ 4400	325 @ 2400	Syncromesh Jetaway	3.08:1 2.78:1
3000 & (Opt.) *3100 & 3200(Std.)	330	4 Bbl.	10.25:1	290 @ 4800	355 @ 2800	Syncromesh Jetaway	3.23:1 3.08:1
* 3127 V-6 Only							

# AMA Specifications – Passenger Car

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

MODEL 3000-V-6 3100 - V-6

## 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.	#1 - C. I. Chrome Plated #2 - G. I. Lubrited
	Width	#1 - 0.0785 - 0.079 #2 - 0.077 - 0.078
	Gap	.010 - .020
Oil	Description - material, type, coating, etc.	Steel Uncoated
	Width	.181 - .187
	Gap	.015 - .035
Expanders		Steel Oil Ring (Hump Type)

## ENGINE—PISTON PINS

Material	Extruded - 1018 and SAE 1118 Steel		
Length	3.060		
Diameter	.9394 - .9397		
Type	Locked in rod, in piston, floating, etc.	Pressed in Rod	
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston	.00005 - .0001 Select	
	In rod	.0007 - .0015 Select Press	
Direction & amount offset in piston		.040 Toward High Thrust Side	

## ENGINE—CONNECTING RODS

Material	Pearlitic Malleable Iron	
Weight (oz.)		
Length (center to center)	5.960	
Bearing	Material & Type	Removable Steel Backed - M/400 Aluminum
	Overall length	.737
	Clearance (limits)	.0002 - .0023
	End play	.006 - .014 (a)

(a) Total for Both Rods

# AMA Specifications—Passenger Car

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

**MODEL** 3000 V-8 3100 V-8 3200 V-8

## ENGINE—CRANKSHAFT

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

## ENGINE—CAMSHAFT

<b>Location</b>		Center		
<b>Material</b>		Alloy Cast Iron		
<b>Bearings</b>	<b>Material</b>	Steel Backed G. M. 4195-M Babbitt		
	<b>Number</b>	5		
<b>Type of Drive</b>	<b>Gear or chain</b>		Chain	
	<b>Crankshaft gear or sprocket material</b>		S. A. E. 1118, 1140, 1141, 1146, G. M. 85M Steel or A. S. T. M. B-310 Sintered Iron	
	<b>Camshaft gear or sprocket material</b>		S. A. E. 308 Aluminum with Nylon Teeth Optional: Cast Iron	
	<b>Timing chain</b>	<b>No. of links</b>	48	
		<b>Width</b>	.750	
<b>Pitch</b>		.500		

## ENGINE—VALVE SYSTEM

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

(Continued)

# AMA Specifications—Passenger Car

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

**MODEL** 3000 V-6 3100 V-6

## ENGINE—CRANKSHAFT

Material		Pearlitic Malleable Iron	
Vibration damper type		Rubber Absorption	
End thrust taken by bearing (No.)			
Crankshaft end play		.004 - .008	
Main bearing	Material & type	Steel Backed - All Removeable	
	Clearance	.0005 - .0021	
	Journal dia. and bearing overall length	No. 1	2.4995 x .864
		No. 2	2.4995 x 1.057
		No. 3	2.4995 x .864
		No. 4	2.4995 x .864
		No. 5	None
		No. 6	None
No. 7		None	
Dir. & amt. cyl. offset		None	
Crankpin journal diameter		2.0000	

## ENGINE—CAMSHAFT

Location		Above Crankshaft at Center of "V"	
Material		Cast Alloy Iron	
Bearings	Material	Steel Backed Babbitt	
	Number	Four	
Gear or chain		Chain	
Crankshaft gear or sprocket material		Sintered Iron	
Type of Drive	Camshaft gear or sprocket material		
	Nylon Coated Aluminum		
	Timing chain	No. of links	54
		Width	.875
Pitch		.375	

## ENGINE—VALVE SYSTEM

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

(Continued)



# AMA Specifications—Passenger Car

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

MODEL 3000 - V-6 3100 - V-6

## ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	24	
		Closes (°ABC)	81	
		Duration - deg.	285	
	Exhaust	Opens (°BBC)	72	
		Closes (°ATC)	43	
		Duration - deg.	295	
Valve opening overlap		67		
Intake	Material		SAE 1041 Steel	
	Overall length		4.545	
	Actual overall head dia.		1.625	
	Angle of seat & face		45°	
	Seat insert material		None	
	Stem diameter		Tapered .3412 ± .0005 to .3407 ± .0005	
	Stem to guide clearance		.001 to .003 (Top) - .0015 to .0035 (Bottom)	
	Lift (@ zero lash)		.391	
	Outer spring press. and length	Valve closed (lb. @ in.)	64 @ 1.640	
		Valve open (lb. @ in.)	168 @ 1.260	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		GM-N82152 (21-4N)
		Overall length		4.545
Actual overall head dia.		1.3125		
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		Tapered .3407 ± .0005 to .3402 ± .0005		
Stem to guide clearance		.0015 to .0035 (Top) - .002 - .004 (Bottom)		
Lift (@ zero lash)		.401		
Outer spring press. and length		Valve closed (lb. @ in.)	64 @ 1.640	
		Valve open (lb. @ in.)	168 @ 1.260	
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	Splash and Nozzle
	Cylinder walls	Splash and Nozzle

(Continued)

# AMA Specifications – Passenger Car

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

MODEL 3000 V-8 3100 V-8 3200 V-8

## 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 10W30, SAE 20W Below 32° F & Above 0° F - SAE-5W20, SAE-10W Below 0° F - SAE-5W20, SAE - 5W	
Engine Service Requirement (MM, MS, etc.)		

## ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single *		
Muffler No. & type (reverse flow, straight thru, separate resonator)	Reverse Flow	Muffler & Separat Resonator	
Exhaust pipe dia. (O.D. wall thickness)	Branch	.076 x 2.00	2.25 x .076
	Main	.076 x 2.25 R. H.	2.25 x .076
Tail pipe diameter (O.D. & wall thickness)	.048 x 2.00 R. H.	2.00 x .048	

## ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Positive Crankcase Ventilation	
	Optional	None	
Control unit	Make and model	AC 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)	Screw	

\* Dual Available as option on all 4 Bbl. Engines (except Wagons)

L. H. Exhaust Pipe (O. D. Wall Thickness)

Branch
Main

None  
.076 x 2.00

L.H. Tail Pipe Diameter (O. D. & Wall Thickness)

.048 x 1.75

# AMA Specifications – Passenger Car

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

MODEL 3000 V-6 3100 V-6

## ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	
Oil pressure sending unit (elect. or mech.)	Electrical
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Element & Can
Capacity of crankcase, less filter-refill (qt.)	Four
Oil grade recommended (SAE viscosity and temperature range)	Above 32 °F      10W-30, 20W or 20 Below 32° F to 0° F      5W-20, 10W Below 0° F      5W-20 or 5W
Engine Service Requirement (MM, MS, etc.)	Passing CarMakers Test GM-4745M

## ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single
Muffler No. & type (reverse flow, straight thru, separate resonator)	Straight Thru      Muffler
Exhaust pipe dia. (O.D. wall thickness)	Branch 1. 875 OD . 076 Wall
	Main 2. 00 OD . 076 Wall
Tail pipe diameter (O.D. & wall thickness)	1. 75 OD . 048 Wall

## ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	None
Control unit	Make and model	AC
	Location	Right Rocker Arm Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum/Inlet Air Stream
	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)	L/D Ratio or Fixed Orifice

# AMA Specifications— Passenger Car

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

MODEL 3000 V-6 3100 V-6

## ENGINE—FUEL SYSTEM

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

Induction type: Carburetor, fuel injection, supercharger.		Carburetor	
Fuel Tank	Capacity (gals.)	20	
	Filler location	Rear Bumper except S. W. Which is Left Rear Qtr.	
Fuel Pump	Type (elec. or mech.)	Mechanical	
	Locations	Engine	
	Pressure range	4.5 - 5.75 at Carburetor	
Vacuum booster (std., optional, none)		None	
Fuel Filter	Type	Pourous Metal	
	Locations	Carburetor	
Carburetor	Choke type	Automatic - Carburetor Integral	
	Intake manifold heat control (exhaust or water)	Exhaust	
	Air clnr. type	Standard	Polyurethane
		Optional	None

## CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
			N O N E			

# AMA Specifications – Passenger Car

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

**MODEL** 3000 V-8 3100 V-8 3200 V-8

## ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		15 PSI	
Circulation thermostat	Type (choke, bypass)	By Pass	
	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.)	16.9	
	Without heater (qt.)	16.2	
	Opt. equipment-specify (qt.)	19.3 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		36° x 49" x .380
	Generator		Same Belt
	Water Pump		Same Belt
	Power Steering		36° x 59.5 x .380
	Air Conditioning		36° x 58.5 x .380

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

# AMA Specifications – Passenger Car

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

**MODEL** 3000 - V-6 3100 V-6

## ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		15 psi	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (°F)	180°	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM @ 1000 pump rpm		
Water pump	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
	Bearing type	Double Row Integral Shaft	
By-pass recirculation type (internal, external)		External	
Radiator core type (cellular, tube and fin, other)		Tube and Center	
Cooling system capacity	With heater (qt.)	10.7	
	Without heater (qt.)	10.0	
	Opt. equipment-specify (qt.)	11.2 A/C	
Water jackets full length of cylinder (yes, no)		No	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	Upper	Number and type (molded, straight)	One Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	One Molded
		Inside diameter	
Fan	Number of blades & Spacing		Four (76 x 104) - 7 Blades Used with A. C.
	Diameter		17.12 (a)
	Ratio-fan to crankshaft rev.		.85 (1.15 with A/C)
	Fan cutout type		None (Thermo Clutch with A. C.)
	Bearing type		Single Row Ball
*Drive belts (indicate belt used by letter)	Fan		"A" Generator and Water Pump
	Generator		"A" Fan and Water Pump
	Water Pump		"A" Fan and Generator
	Power Steering		"B"
	Air Conditioning		"C: Gen. - Fan and Water Pump

	"A"	"B"	"C"
* Drive Belt Dimensions			
Angle of V	38	38	38
Nominal length (SAE)	43.92	53.00	57.32
Width	38	47	47

(a) 17" on V6 when A. C. Equipped.

# AMA Specifications – Passenger Car

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

MODEL 3000 V-6 3100 V-6

## ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco - Remy 1980558
	Voltage Rtg. & Total Plates		12V-66 Plates
	SAE Designation & Amp Hr. Rtg		25MD- 61 Amp Hrs.
	Location		Engine Compartment - Front Right Hand Side
	Terminal grounded		Negative
Generator	Make		Delco - Remy
	Model		1100663
	Type		Self Rectifying AC
	Ratio—Gen. to Cr/s rev.		2.34
	Gen. cut-in (hot) —engine rpm		Charge on Idle
Regulator	Make		Delco Remy
	Model		1119515
	Type		Voltage Control
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regu- lated	Voltage	13.6 to 14.4
		Current	None-Self Regulating
	Voltage test con- ditions	Temperature	120° F
		Load	15 Minutes @ 10 Amps
		Other	Battery Must be in Circuit

## ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy
	Model		1107260
	Rotation (drive end view)		Clockwise
	Engine cranking speed		150 (Approx. )
	Test conditions		Engine at Operating Temp.
	Lock test	Amps	N. A.
		Volts	N. A.
		Torque (lb. ft.)	N. A.
	No load test	Amps	62.5
		Volts	10.6
RPM (min.)		6200	
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		Turn Ignition Key against Spring Load to Full Clockwise Position. Cars with Automatic Transmissions Must be in Park or Neutral to Start.

(Continued)

# AMA Specifications – Passenger Car

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

**MODEL** 3000 V-8 3100 V-8 3200 V-8

## ELECTRICAL—STARTING SYSTEM (cont.)

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

## ELECTRICAL—IGNITION SYSTEM

Coil	Make	Delco Remy		
	Model	1115191 T-3153-A		
	Amps	Engine stopped	6.0 at 12V (75° Winding Temp)	
Engine idling		1.35		
Distributor	Make	Delco Remy		
	Model	1111029	1111098	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 2° @ 650 RPM	0° - 2° @ 650 RPM
		Intermediate points deg. @ rpm	15 1/2° - 19 1/2° @ 2050 R. P. M.	15° - 19° @ 2050 RPM
		Max deg. @ rpm	28° - 32° @ 4000 R. P. M.	24° - 28° @ 4000 RPM
	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			
Com angle (deg.)	28 - 32			
Breaker arm tension (oz.)	19 - 23			
Timing	Crankshaft deg. @ rpm.	7 1/2° @ 850 R. P. M.		
	Mark location	Pulley Hub	Vibration Damper	
	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	AC45S	AC44S	
	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

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

**MODEL** 3000 V-6 3100 V-6

## ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	160
	Flywheel tooth face width		.375

## ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy	
	Model		1115161	
	Amps	Engine stopped	3.8 @ 12.6 V	
		Engine idling	2.3 @ 12.6 V	
Distributor	Make		Delco Remy	
	Model		1110309	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	700-900	
		Intermediate points deg. @ rpm	16° @ 1800	
		Max deg. @ rpm	28° @ 4200	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	6-8	
		Intermediate points, deg @ in Hg	10.5 @ 12	
		Max. deg. in. Hg.	19.5 Max.	
	Breaker gap (in.)		.013 - .019	
	Cam angle (deg.)		30° ± 1°	
Breaker arm tension (oz.)		19-23		
Timing	Crankshaft deg. @ rpm.		5° @ 500	
	Mark location		Crankcase Flange	
	Cylinder numbering system (see page 2)		Lt. 1-3-5; Rt. 2-4-6	
	Firing order (see page 2)		1-6-5-4-3-2	
Spark Plug	Make and model		AC-44S	
	Thread (mm)		14	
	Tightening torque (lb. ft.)		25-30	
	Gap		.030-.035	
Cable	Conductor type		4000 Ohms. Per Foot (Resistance Cable)	
	Insulation type		Neoprene with Innerbraid	
	Spark plug protector		Hypalon Boot	

## ELECTRICAL—SUPPRESSION

Locations & type	4000 Ohms/Ft. Spark Plug Wires and Coil to Distributor Wire .33 MFD Condenser at Coil. .50 MFD Condenser at Voltage Regulator.
------------------	--

# AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 9-28-63 REVISED <sup>(\*)</sup>

MODEL 3000 3100 3200

## ELECTRICAL—LAMP BULBS

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

Headlamps & arrangement	Dual Headlights	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		1-1893	
Radio		1-1893	

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

Ignition lock	N. A.
Back up	2-1156*
Dome	1-211
Glove compartment	1-1893*
Prkg. brake signal	1-1895*
Luggage compartment	1-631*
Underhood	1-631*
Courtesy	2-90
Map	-
Ash Tray	1-1445*
Courtesy Console	3-90*
Cruise Control	1-1445*

\* Optional

# AMA Specifications – Passenger Car

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

MODEL 3000 V-6 3100 V-6

## 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		AGC - 10 (B)
Tail lamp		Same as B
Stop lamp		SFE-20 (C)
Direction Indicator		Same as (C)
License plate lamp		Same as (B)
Instrument lamp		AGC - 3 (E)
Ignition lamp		None
Back up lamp		SFE-9 (D)
Dome lamp		Same as (C)
Clock		AGA-2
Clock lamp		Same as (E)
Radio		AGC-2 1/2
Glove compartment lamp		Same as (B)
		AGA-5
		SFE-20 or AGC-25 with A/C
		SFE-20
		Same as (D)
		Same as (C)
		Same as (D)
		Same as (D)
		Same as (D)
		Same as (D)

## ELECTRICAL—LOCATION OF OUTSIDE LAMPS

		Lowest	24.8	
		Highest	24.8	
Height above ground to center of bulb	Stop		24.8	
	Backup		18.7	
	License, rear		19.7	
	Directional	Front		17.9
		Rear		24.8
	Headlamp	Inside		25.3
		Outside*		25.3
	Distance from C/L of car to center of bulb	Tail	Inside	27.5
Outside			-	
Stop			27.5	
Backup			12.5	
License, rear			0	
Directional		Front		29.4
		Rear		27.5
Headlamp		Inside		21.9
	Outside*		29.7	

\* If single headlamps are used enter here.

# AMA Specifications – Passenger Car

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

**MODEL** 3000 V-8 3100 V-8 3200 V-8

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Own, 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.)	N. A.
Automatic (std. or opt.)	Optional

## DRIVE UNITS—MANUAL TRANSMISSION

		Std.	Opt.	
Number of forward speeds		3	4	
Transmission ratios	In first	2.58	2.56	
	In second	1.48	1.91	
	In third	1	1.48	
	In fourth	-	1.	
	In reverse	2.58	2.64	
Synchronous meshing, specify gears		2 & 3	1, 2, 3, & 4	
Shift lever location		Steering Column	Floor	
Lubricant	Capacity (pt.)	2	2.25	
	Type recommended	Multi-Purpose	Multi-Purpose	
	SAE viscosity number	Summer	80 or 90	80 or 90
		Winter	80	80
		Extreme cold	80	80

# AMA Specifications – Passenger Car

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

**MODEL** 3000 V-6 3100 V-6

## 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	AGC - 10 (B)
Tail lamp	Same as B
Stop lamp	SFE-20 (C)
Direction Indicator	Same as (C)
License plate lamp	Same as (B)
Instrument lamp	AGC - 3 (E)
Ignition lamp	None
Back up lamp	SFE-9 (D)
Dome lamp	Same as (C)
Clock	AGA-2
Clock lamp	Same as (E)
Radio	AGC-2 1/2
Glove compartment lamp	Same as (B)
	AGA-5
	SFE-20 or AGC-25 with A/C
	SFE-20
	Same as (D)
	Same as (C)
	Same as (D)
	Same as (D)
	Same as (D)

## ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	24.8
		Highest	24.8
	Stop		24.8
	Backup		18.7
	License, rear		19.7
	Directional	Front	17.9
		Rear	24.8
	Headlamp	Inside	25.3
		Outside*	25.3
	Distance from C/L of car to center of bulb	Tail	Inside
Outside			-
Stop			27.5
Backup			12.5
License, rear			0
Directional		Front	29.4
		Rear	27.5
Headlamp		Inside	21.9
		Outside*	29.7

\* If single headlamps are used enter here.

# AMA Specifications – Passenger Car

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

**MODEL** 3000 V-8 3100 V-8 3200 V-8

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Own, 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.)	N. A.
Automatic (std. or opt.)	Optional

## DRIVE UNITS—MANUAL TRANSMISSION

		Std.	Opt.	
Number of forward speeds		3	4	
Transmission ratios	In first	2.58	2.56	
	In second	1.48	1.91	
	In third	1	1.48	
	In fourth	-	1.	
	In reverse	2.58	2.64	
Synchronous meshing, specify gears		2 & 3	1, 2, 3, & 4	
Shift lever location		Steering Column	Floor	
Lubricant	Capacity (pt.)	2	2.25	
	Type recommended	Multi-Purpose	Multi-Purpose	
	SAE viscosity number	Summer	80 or 90	80 or 90
		Winter	80	80
		Extreme cold	80	80

# AMA Specifications – Passenger Car

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

**MODEL** 3000 V-6 3100 V-6

## DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Own, Single Plate
Type pressure plate springs		Flat
Effective plate pressure (lb.)		1687
No. of clutch driven discs		1
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	9.12 x 6.12
	Total eff. area (sq.in.)	71.8
	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.)	Std.
Manual with overdrive (std. or opt.)	N. A.
Automatic (std. or opt.)	Opt.

## DRIVE UNITS—MANUAL TRANSMISSION

		Std.	Opt.
Number of forward speeds		3	4
Transmission ratios	In first	2.58	2.56
	In second	1.48	1.91
	In third	1	1.48
	In fourth	-	1
	In reverse	2.58	2.64
Synchronous meshing, specify gears		2 & 3	1, 2, 3 & 4
Shift lever location		Steering Col	Floor
Capacity (pt.)		2	2.25
Lubricant	Type recommended	Multi-Purpose	Multi-Purpose
	SAE viscosity number	80 or 90	80 or 90
	Summer	80	80
	Winter	80	80
	Extreme cold	80	80

# AMA Specifications – Passenger Car

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

**MODEL** 3000                                  3100                                  3200

## DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Universal joints	Make	Saginaw Steering & Dana
	Number used	2
	Type (ball and trunion, cross, other)	Cross
	Bearing	Type (plain, 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(V6)                  3.08:1(V8)	
	Overdrive transmission	N. A.	
	Automatic transmission	3.23(V6)                  2.78:1(V8)	
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		2.78:1	3.08:1	3.23:1
No. of teeth	Pinion	14	13 12	13
	Ring gear	39	40 37	42



# AMA Specifications – Passenger Car

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

MODEL 3000 3100 3200

## 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.)		
Self adjusting (std., opt., N.A.)		
Hydraulic system type (single, dual, etc.)		
Power brake make & type (remote, integral, etc.)		
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	9 1/2
		9 1/2
Type and material		Centrifugal Cast
Wheel cylinder bore	Front	
	Rear	
Master cylinder bore		
Available pedal travel		
Line pressure at 100 lb. pedal load		710 PSI Manual                      725 PSI @ 40# Power
Shoe clearance adjustment		

\* 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** 3000 3100 3200

## BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted		
	Front Shoe	Material		Marshall 3144	
		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 H3152F	
		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	"C" Section with Torque Boxes
----------------------	-------------------------------

## 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 occ. 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 Car

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

**MODEL** 3000 3100 3200

## BRAKES—SERVICE (cont.)

	Bonded or riveted		Welded	
	Brake lining	Front Shoe	Material	Delco Moraine 705
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: (Continued)  
 Air spring type  
 Compressor data  
 type  
 make  
 drive ratio  
 Normal operating pressures  
 spring rates  
 leveling data

# AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1964 DATE ISSUED 5-22-64 REVISED (◊)

MODEL 3000 3100 3200

## BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Marshall 3144	
		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 H3152F	
		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

## FRAME or UNITIZED CONSTRUCTION

Type and description

"C" Section with Torque Boxes

## 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	Rear Stabilizer Bar	

## 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 Car

<b>MAKE OF CAR</b> <u>OLDSMOBILE</u>	<b>MODEL YEAR</b> <u>1964</u>	<b>DATE ISSUED</b> <u>5-22-64</u>	<b>REVISED</b> (*)
<b>MODEL</b>	3000	3100	3200

## STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		8° at + 1° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Ball Joint
Wheel alignment (range and preferred)	Caster (deg.)		Range - 1/2° to - 2°
	Camber (deg.)		Range - 1/4° to + 1/2°
	Toe-in (outside tread-inches)		.06 to .18
Steering spindle & joint type			Ball Joint
Wheel spindle	Diameter	Inner bearing	1.2497 - 1.2492
		Outer bearing	.7496 - .7491
	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 9260	
	Size (length x width, coil design height and I.D.; bar length & dia.)		8.52 Design Height - 5.50 I. D. .560 Dia.	
	Spring rate (lb. per in.)		160	
	Rate at wheel (lb. per in.)		144	
	Design load (lb. at design height)		710 @ 8.52"	
	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)		Linkless	
	Material		SAE 1070	
Track bar type			None	

# AMA Specifications – Passenger Car

<b>MAKE OF CAR</b> OLDSMOBILE	<b>MODEL YEAR</b> 1964	<b>DATE ISSUED</b> 9-28-63	<b>REVISED</b> (*)
<b>MODEL</b>	3000	3100	3200

## STEERING (cont.)

<b>Steering Axis</b>	Inclination at camber (deg.)		8° at + 1° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
	Thrust	Ball Joint	
<b>Wheel alignment (range and preferred)</b>	Caster (deg.)		Range - 1/2° to - 2°
	Camber (deg.)		Range - 1/4° to + 1/2°
	Toe-in (outside tread-inches)		.06 to .18
<b>Steering spindle &amp; joint type</b>			Ball Joint
<b>Wheel spindle</b>	Diameter	Inner bearing	1.2497 - 1.2492
		Outer bearing	.7496 - .7491
	Thread size		3/4 - 20
	Bearing type		Tapered Roller

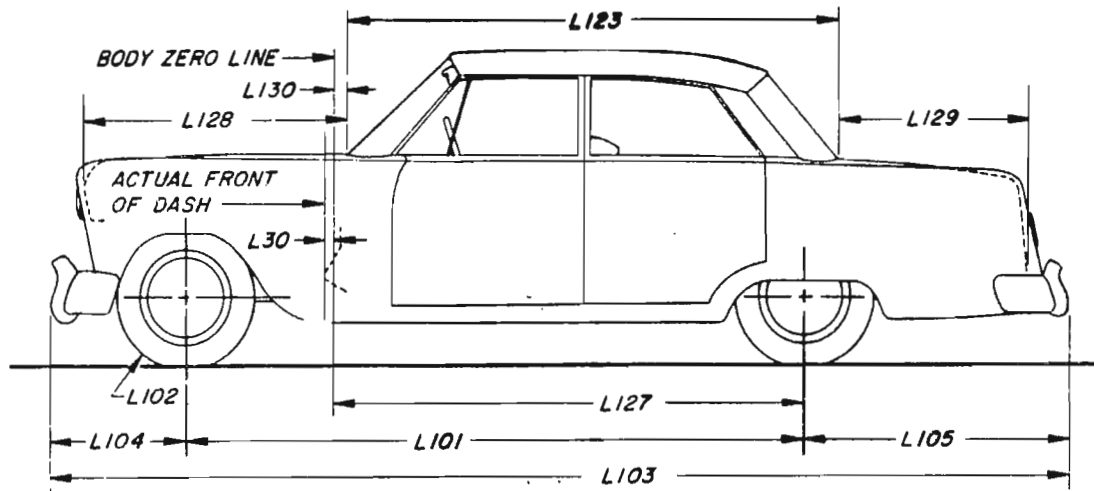
## SUSPENSION—REAR

Type and description			4 Link Coil Spring			
Drive and torq. taken through (see page 17)			Arms			
<b>Spring</b>	Type		Coil			
	Material		SAE 9260			
	Size (length x width, coil design height and I.D.; bar length & dia.)		8.52 Design Height - 5.50 I. D.			
			126" - .560 Dia.	114" .560 Dia.	114" .560 Dia.	
	Spring rate (lb. per in.)		106	120	120	
	Rate at wheel (lb. per in.)		95	109	109	
	Design load (lb. at design height)		850 @ 8.52"	850 @ 8.52"	850 @ 8.52"	
	Mounting insulation type		Rubber			
	If leaf	No. of leaves		None		
		Inserts	Type and size	None		
Material			None			
Shackle (comp. or tens.)		None				
<b>Stabilizer</b>	Type (link, linkless, frameless)		None			
	Material		None			
<b>Track bar type</b>			None			

# AMA Specifications – Passenger Car

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

## EXTERIOR LENGTH DIMENSIONS

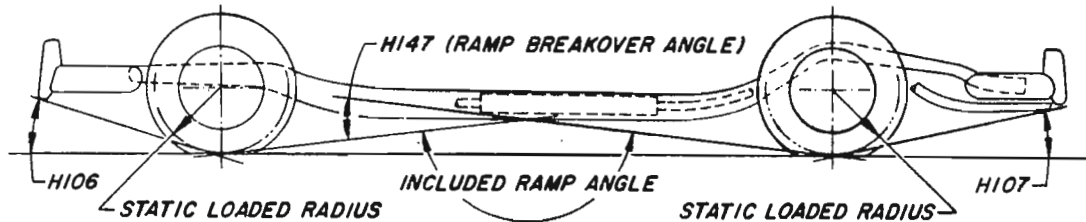
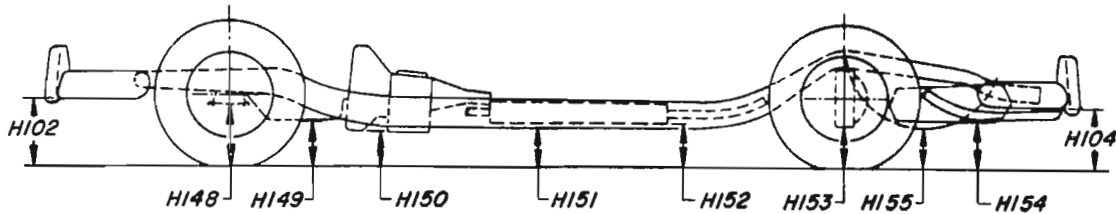


MODEL	Ref. No.	3027	3035	3069	3127	3135	3169	3227	3237	3267
Body zero line to actual front of dash	L30	0	0	0	0	0	0	0	0	0
Wheelbase	L101	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0	115.0
Overhang - front	L104	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0
Overhang - rear	L105	54.0	53.7	54.0	54.0	53.7	54.0	54.0	54.0	54.0
Overall length	L103	203.0	202.7	203.0	203.0	202.7	203.0	203.0	203.0	203.0
Hood length at car centerline	L128	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
Body upper structure length at car centerline	L123	96.31	132.77	96.2	96.2	132.77	96.2	96.2	96.2	93.5
Deck length at car centerline	L129	44.91	-	45.1	45.0	-	45.1	45.0	45.0	47.8
Body zero line to centerline of rear wheels	L127	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
Body zero line to windshield cowl point	L130	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68	10.68
Tire size	L102	7.00x14	7.00x14	7.00x14	6.50x14	7.00x14	7.00x14	7.00x14	7.00x14	7.00x14

# AMA Specifications—Passenger Car

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

## GROUND CLEARANCE DIMENSIONS



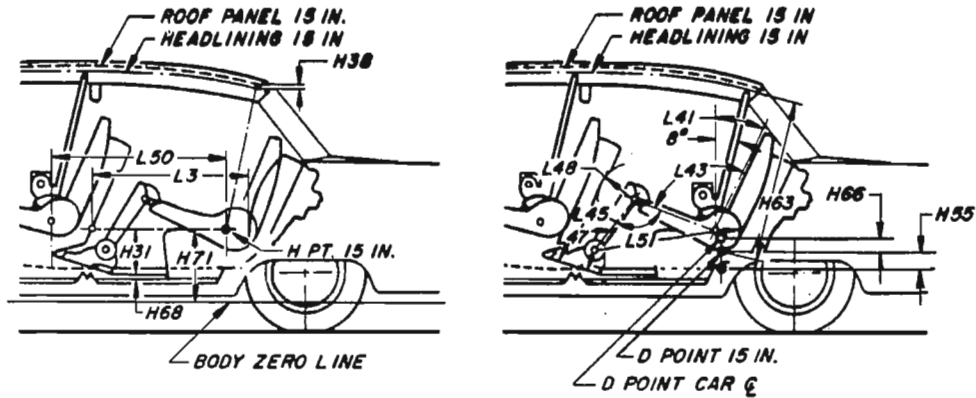
MODEL	Ref. No.	3027	3035	3069	3127	3135	3169	3227	3237	3267
Front bumper to ground	H102	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
Rear bumper to ground	H104	13.1	9.8	13.1	13.1	9.8	13.1	13.1	13.1	13.1
Angle of approach	H106	25° 11'	25° 11'	25° 11'	25° 11'	25° 11'	25° 11'	25° 11'	25° 11'	25° 11'
Angle of departure	H107	14° 51'	11° 25'	14° 51'	14° 51'	11° 25'	14° 51'	14° 51'	14° 51'	14° 51'
Ramp breakover angle	H147	12° 18'	12° 18'	12° 18'	12° 18'	12° 18'	12° 18'	12° 18'	12° 18'	12° 18'
Front suspension to ground	H148	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
Oil pan to ground	H149	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
Flywheel housing to ground	H150	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
Frame structure to ground	H151	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Exhaust system to ground	H152	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Rear axle differential to ground	H153	7.1	7.1	7.1	6.8	7.1	7.1	6.8	7.1	7.1
Fuel tank to ground	H154	8.4	10.6	8.4	8.4	10.6	8.4	8.4	8.4	8.4
Spare tire well to ground	H155	-	7.3	-	-	7.3	-	-	-	-
Minimum running ground clearance	H156	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8



# AMA Specifications – Passenger Car

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

## REAR COMPARTMENT DIMENSIONS

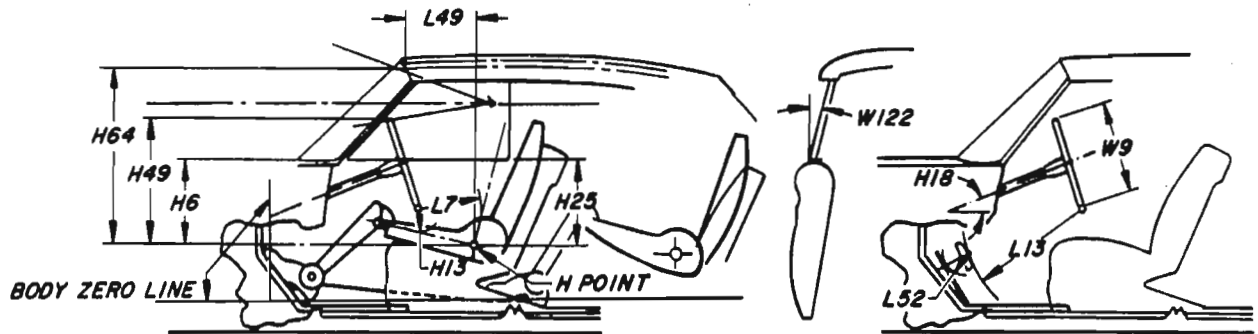


MODEL	Ref. No.	3027	3025	3069	3127	3135	3169	3227	3237	3267
H Point couple distance	L50	31.25	33.51	33.5	31.60	33.51	33.5	31.60	31.60	31.60
H Point to body zero line - rear	H71	NA	NA	NA	NA	NA	NA	NA	NA	NA
Effective head room	H63	36.7	38.4	37.3	36.7	38.4	37.3	36.7	36.7	36.8
Headlining to roof height	H38	.7	.8	.6	.7	.8	.6	.7	.6	-
Minimum effective leg room	L51	33.5	36.1	36.1	33.2	35.9	36.0	33.2	33.2	33.2
H Point to heel point	H31	10.5	10.8	10.8	10.4	10.7	10.7	10.4	10.4	10.4
Depressed floor covering thickness	H68	.3	.4	.3	.4	.4	.4	.4	.4	.4
Minimum knee room	L48	1.9	3.7	3.5	1.7	3.7	3.6	1.7	1.7	1.7
Rear compartment room	L3	25.3	27.2	26.9	25.0	27.2	26.9	25.0	25.0	24.7
Back angle	L41	25.5°	27°	26.5°	25.5°	27°	26.5°	25.5°	25.5°	24°
Hip angle	L43	82°	88°	87.5°	81.5°	87.5°	87°	81.5°	81.5°	79.5°
Knee angle	L45	83°	95°	95°	82°	94°	94.5°	82°	82°	82°
Foot angle	L47	110°	116°	116.5°	108°	115°	115.5°	108°	108°	108°
D Point differential, side to center	H66	1.1	.8	.8	1.1	.8	.8	1.1	1.1	.9
D Point to tunnel	H55	1.7	1.9	1.9	1.7	1.9	1.9	1.7	1.7	1.5

# AMA Specifications – Passenger Car

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

## VISION AND CONTROL DIMENSIONS

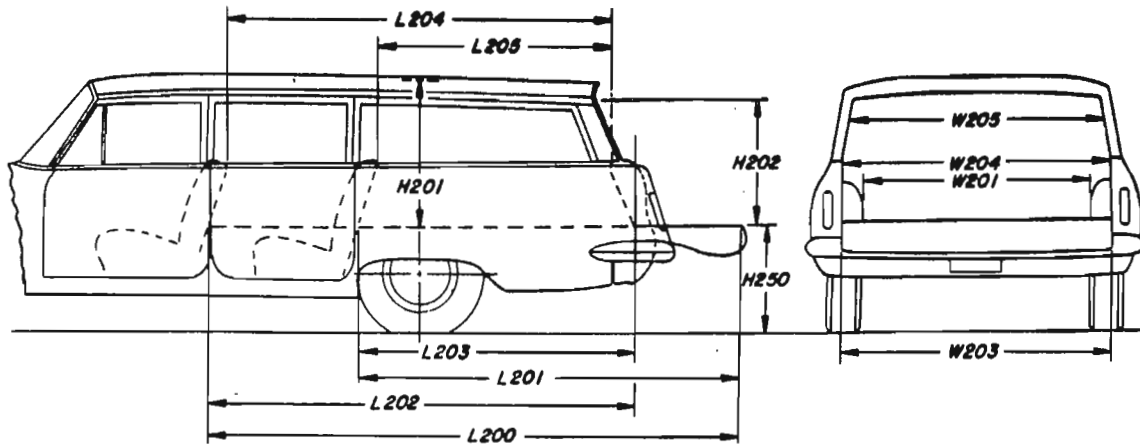


MODEL	Ref. No.	3027	3035	3069	3127	3135	3169	3227	3237	3267
H Point to windshield bottom DLO	H6	18.5	18.4	18.4	18.6	18.4	18.4	18.6	18.6	18.6
H Point to windshield upper DLO	H64	30.6	30.5	30.5	30.7	30.5	30.5	30.7	30.7	30.8
H Point to windshield upper DLO	L49	14.6	14.6	14.6	14.3	14.6	14.6	14.3	14.3	14.2
Belt height - front	H25	16.8	16.7	16.7	16.9	16.7	16.7	16.9	16.9	16.9
Steering wheel center to centerline of car	W7	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
Steering wheel maximum outside diameter	W9	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
Steering column angle - horizontal	H18	19.5°	19.5°	19.5°	19.5°	19.5°	19.5°	19.5°	19.5°	19.5°
H Point to top of steering wheel	H49	22.6	22.5	22.5	22.7	22.5	22.5	22.7	22.7	22.7
Steering wheel torso clearance	L7	11.3	11.2	11.2	11.0	11.2	11.2	11.0	11.0	11.0
Steering wheel thigh clearance	H13	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7
Brake pedal knee clearance	L13	24.8	24.8	24.8	24.4	24.8	24.8	24.4	24.4	24.4
Brake pedal to accelerator	L52	4.0	3.9	3.9	4.8	3.9	3.9	4.8	4.8	4.8
Tumble-home	W122	18°	18°	18°	18°	18°	18°	18°	18°	18°

# 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.	
Floor length from back of front seat at floor level to end of lowered tail gate or floor	L200	114.3
Floor length from back of second seat at floor level to end of lowered tail gate or floor	L201	81.3
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.0
Floor length from back of second seat at floor level to inside of closed tail gate	L203	59.0
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	81.0
Minimum horizontal distance from top rear of second seat back to inside of tail gate at belt	L205	46.5
Maximum width of cargo space at floor - specify location	W200	59.6
Minimum distance between wheel houses at floor level	W201	44.7
Rear end opening width at floor	W203	55.0
Rear end opening width at belt	W204	53.0
Maximum width of rear opening above belt	W205	45.7
Maximum height - floor covering to headlining at centerline of rear axle	H201	31.0
Maximum height of rear opening - tail and lift gates open	H202	28.2
Platform height from ground to top of tail gate floor covering at rear most edge of tail gate - curb weight	H250	23.0
Rear end closure (e.g., one piece door, hinged left - sliding glass, drop tail gate)		Sliding Glass Drop Gate
Cargo volume index (cu. ft.) W4 x L204 x H201		85.4

1728

# AMA Specifications – Passenger Car

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

## SUPPLEMENTARY INFORMATION

MODEL	A	B	C	D
4 Door Sedan	1460.0	1164.7	1102.0	3726.7
2 Door Coupe	1430.8	1164.7	1088.3	3683.8
2 Door Cutlass Coupe	1583.0	1164.7	1088.3	3836.0
2 Door Convertible	1480.2	1164.7	1108.4	3753.3
4 Door Station Wagon	2817.6	1164.7	946.2	4928.5

# AMA Specifications – Passenger Car

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

## WEIGHTS

F-85 V-6  Model	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
3027	1615	1438	3053					2908
3035	1546	1747	3293					3148
3069	1603	1472	3075					2930
3127	1626	1448	3074					2929
3135	1553	1760	3313					3168
3169	1616	1482	3098					2953
Accessories & Equipment Differential Weights				Remarks				
Electric 4-window lift			21.5	3100 & 3200				
Electric 4-way seat			19.7					
Floor Mats			8.7					
Power Brakes			8.1					
Jetaway			8.9					
Power Steering			32.0					
Deluxe Wheel Discs			6.1					
Radio			8.4					
Air Conditioning			123.6					

\* These are weights that are reported to states for licensing purposes. Form Rev. 5-63

# AMA Specifications – Passenger Car

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

## WEIGHTS

	CURB WEIGHT - POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING * WEIGHT
	Front	Rear	Total	Pass. In Front		Pass. In Rear		
				Front	Rear	Front	Rear	
F -85 V-8								
Model								
3027	1799	1442	3241					3082
3035	1723	1748	3471					3312
3055	1787	1925	3712					3553
3065	1793	2024	3817					3658
3069	1790	1473	3263					3104
3135	1730	1761	3491					3332
3169	1803	1483	3286					3127
3227	1811	1479	3290					3131
3237	1820	1509	3329					3170
3255	1799	1942	3741					3582
3265	1805	2041	3846					3687
3267	1849	1541	3390					3231
Accessories & Equipment Differential Weights				Remarks				
Electric 4-Window Lift			21.5	3100 & 3200				
Electric 4-Way Seat			19.7					
Floor Mats			8.7					
Power Brakes			8.1					
Jetaway			23.3					
Power Steering			35.9					
Deluxe Wheel Discs			6.1					
Radio			8.4					
Air Conditioning			133.9					

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

**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.

# AMA Specifications – Passenger Car

## 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
Battery . . . . .	10	Linings - Clutch, Brake . . . . .	15, 19
Bearings, Engine . . . . .	4, 5, 6	Lubrication . . . . .	6, 7, 15, 16, 17
Belts - Fan, Generator, Water Pump . . . . .	9	Luggage Capacity . . . . .	30
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	Overdrive . . . . .	16
Clearance Dimensions . . . . .	25	Piston Pins & Rings . . . . .	2, 4
Brakes - Parking, Service, Power . . . . .	18, 19	Pistons . . . . .	2
Camber . . . . .	21	Power Brakes . . . . .	18
Camshaft . . . . .	5	Power Steering . . . . .	20
Capacities		Power Teams . . . . .	3
Cooling System . . . . .	9	Propeller Shaft, Universal Joints . . . . .	16, 17
Fuel Tank . . . . .	8	Pumps - Oil, Fuel . . . . .	7, 8
Lubricants		Water . . . . .	9
Engine Crankcase . . . . .	7	Radiator, Hoses . . . . .	9
Transmission and Overdrive . . . . .	15, 16	Ramp Break-over Angle . . . . .	25
Rear Axle . . . . .	17	Ratios - Axle . . . . .	1, 3, 17
Carburetor . . . . .	3, 8	Compression . . . . .	1, 2, 3
Caster . . . . .	21	Steering . . . . .	20
Choke, Automatic . . . . .	8	Transmission . . . . .	15, 16
Circuit Breakers, Fuses . . . . .	14	Rear Axle . . . . .	1, 3, 17
Clearance, Ground . . . . .	25	Regulator - Generator . . . . .	10
Clutch - Pedal Operated . . . . .	15	Rims . . . . .	18
Coil, Ignition . . . . .	11	Rings, Piston . . . . .	4
Connecting Rods . . . . .	4	Rods - Connecting . . . . .	4
Cooling System . . . . .	9	Shock Absorbers, Front & Rear . . . . .	19
Crankcase Ventilation . . . . .	7	Spark Plugs . . . . .	11
Crankshaft . . . . .	5	Speedometer . . . . .	12
Cylinders and Cylinder Head . . . . .	2	Springs - Front & Rear Suspension . . . . .	20, 21
Dimension Definitions . . . . .	34, 35, 36	Valve, Engine . . . . .	6
Distributor - Ignition . . . . .	11	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	Tailpipe . . . . .	7
Lubrication . . . . .	6, 7	Thermostat, Cooling . . . . .	9
Power Teams . . . . .	3	Timing, Engine & Valve . . . . .	5, 6, 11
Exhaust System . . . . .	7	Tires . . . . .	1, 18
Equipment Availability . . . . .	32	Toe in . . . . .	21
Fan, Cooling . . . . .	9	Torque Converter . . . . .	16
Filters - Engine Oil, Fuel System . . . . .	7, 8	Torque - Engine, Rated . . . . .	1, 2, 3
Frame . . . . .	19	Transmission - Types . . . . .	1, 3, 8, 15, 16
Front Suspension . . . . .	19, 20	Automatic . . . . .	1, 3, 8, 15, 16
Fuel, Fuel Pump, Fuel System . . . . .	1, 2, 8	Manual & Overdrive . . . . .	1, 3, 8, 15, 16
Fuel Injection . . . . .	1, 8	Ratios . . . . .	15, 16
Fuses, Circuit Breakers . . . . .	14	Tread . . . . .	1, 22
Generator and Regulator . . . . .	10	Trunk Luggage Capacity . . . . .	30
Glass . . . . .	24, 32	Turning Diameter . . . . .	20
Height (Lamps) . . . . .	14	Unitized Construction . . . . .	19
Headroom - Body . . . . .	26, 27, 30	Universal Joints, Propeller Shaft . . . . .	16, 17
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 . . . . .	1, 23
Instruments . . . . .	7, 12	Wheelbase . . . . .	18
Kingpin (Steering Axis) . . . . .	21	Wheels & Tires . . . . .	21
Lamp Bulbs . . . . .	13	Wheel Spindle . . . . .	21
		Widths - Car & Body . . . . .	1, 22
		Windshield . . . . .	24, 32
		Windshield Wiper . . . . .	12