

AMA Specifications – Passenger Car

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MANUFACTURER OLDSMOBILE DIVISION, G. M. C.	CAR NAME OLDSMOBILE	
MAILING ADDRESS LANSING, MICHIGAN	MODEL YEAR 1962	ISSUED: 9/22/61 REVISED (a)

NOTES:

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 the standard model without optional equipment. Significant deviations are noted.
- b. Specifications apply basically to 4-door sedan or equivalent.
- c. Nominal design dimensions are used throughout these specifications.

TABLE OF CONTENTS

General Specifications 1	Drive Units 13	Rear Suspension 19	Body & Car - General 26
Engine - Mechanical 2	Brakes 16	Body Dimensions 20	Weights 27
Electrical 8	Front Suspension & Steering . . 17	Station Wagon 25	Index 28

BODY—TYPES AND STYLE NAMES—

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

3239 - "88" Holiday Sedan - 4 Window
 3269 - 88 4 Door Sedan - 4 Window - Thin Pillar
 3247 - 88 Holiday Coupe
 3267 - 88 Convertible Coupe
 3235 - 88 Station Wagon - 4 Door Pillar - 2 Seat
 3245 - 88 " " - " " - 3 Seat

 3569 - Super 88 - 4 Door Sedan - 4 Window - Thin Pillar
 3547 - " " - Holiday Coupe
 3539 - " " - Holiday Sedan
 3535 - " " - Station Wagon - 4 Door Pillar - 2 Seat

 3647 - Starfire - Coupe
 3667 - Starfire - Convertible

 3819 - "98" 4 Door (Town) Sedan - 6 Window - Thin Pillar
 3829 - " " " (Holiday) " - " - Pillarless
 3847 - " - Holiday Sports Coupe
 3839 - " - Holiday Sports Sedan - 4 Window - Pillarless
 3867 - " - Convertible Coupe

AMA Specifications — Passenger Car

Page 1

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED()

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.	32	35	38
Wheelbase (L-101)		23	123"	123"	126"
Tread	Front (W-101)	24	61"		
	Rear (W-102)	24	61"		
Maximum Overall Dimensions	Length (L-103)	23	213.94		
	Width (W-103)	24	77.9		
	Height (H-101)	22	55.8		
Transmission— (Specify trade name - opt., not available)	Manual	13	Synchromesh		
	Overdrive	14	N. A.		
	Automatic	14	Hydra-Matic		
Axle ratio	Manual	15	3.23		
	Overdrive	15	N. A.		
	Automatic	15	2.56	2.87	3.08
Tire size		16	8.00 x 14	8.00 x 14	8.50 x 14
Engine	Type, no. cyl., valve arr.	2	V-8		
	Fuel system (Carb., other)	6	Carburetor		
	Bore and stroke	2	4 1/8 x 3 11/16		
	Piston displ., cu.in.	2	394		
	Std. compression ratio	2	10.25:1	10.25:1	10.25:1
	Max. bhp at engine rpm	2	280 @ 4400	330 @ 4600	330 @ 4600
	Max. torque at rpm	2	430 @ 2400	440 @ 2800	440 @ 2800

Form Rev. 6-60

AMA Specifications—Passenger Car

Page 2

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____

MODEL _____ 32 _____ 35 _____ 38 _____

ENGINE—GENERAL

Type, no. cyls., valve arr.		90 ° V8 - OH		
Bore and stroke (nominal)		4.125 x 3.688		
Piston displacement, cu. in.		394		
Bore spacing (C/L to C/L)		4.625		
No. system (front to rear)	L. Bank	1-3-5-7		
	R. Bank	2-4-6-8		
Firing order		1-8-7-3-6-5-4-2		
Compres. ratio (nominal)		10.25:1		
Cylinder Head Material		Cast Iron		
Cylinder Sleeve-Wet, dry, none		None		
Number of mounting points	Front	One		
	Rear	Two		
Engine installation angle		4 ° 30'		
Taxable <u>Dia.² x No. Cyl.</u> horsepower 2.5		54		
Published max. bhp* @ eng. RPM		280 @ 4400	330 @ 4600	330 @ 4600
Published max. torque* (lb. ft. @ RPM)		430 @ 2400	440 @ 2800	440 @ 2800
Recommended fuel regular - premium		Premium		
Idle speed (spec. neutral or drive)	Manual	550		
	Automatic	500		

ENGINE—PISTONS

Material	Aluminum Alloy		
Description and finish	Auto-Thermic, Cam Grind, Tin Plate, Steel Strut		
Weight (piston only) oz.	26.349 oz.		

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

(Continued)

Form Rev. 6-60

AMA Specifications – Passenger Car

Page 2A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 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		
3200 (Std.)	394	2 Bbl.	10.25:1	280 @ 4300	240 @ 2400	Syncromesh	3.23:1
3200 (Opt.)	394	2 Bbl.	8.75:1	260 @ 4400	410 @ 2400	Hydra-Matic	2.56:1
3200 (Opt.)	394	4 Bbl.	10.25:1	330 @ 4400	440 @ 2400	Syncromesh	3.23:1
3200 (Opt.)	394	4 Bbl.	10.25:1	330 @ 4600	440 @ 2800	Hydra-Matic	2.69:1
3500 (Std.)	394	4 Bbl.	10.25:1	330 @ 4600	440 @ 2800	Syncromesh	3.23:1
3500 (Std.)	394	4 Bbl.	10.25:1	345 @ 4400	440 @ 2800	Hydra-Matic	2.87:1
3600 (Std.)	394	4 Bbl.	10.5:1	3800	3200	Hydra-Matic	3.42:1
3800 (Std.)	394	4 Bbl.	10.25:1	330 @ 4600	440 @ 2800	Hydra-Matic	3.08:1

AMA Specifications – Passenger Car

Page 3

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

ENGINE PISTONS (Cont.)

Clearance (limits)	Top land		.028 - .034
	Skirt	Top	.00075 - .00225
		Bottom	.00075 - .00125
Ring groove depth	No. 1 ring		.2125 - .2195
	No. 2 ring		.2125 - .2195
	No. 3 ring		.2045 - .2075
	No. 4 ring		None

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression
	No. 2, oil or comp.	Compression
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, type, coating, etc.	Cast Iron - Upper Ring Chrome Plated O. D. -Taper Face. Lower Ring Parco Lubrite - Taper Face- Interrupted Scraper Groove
	Width	#1 - .0775 - .078

ENGINE—PISTON PINS

Material			S. A. E. #1016 Special
Length			3.126
Diameter			.9803 - .9807
Type	Locked in rod, in piston, floating, etc.		Full Floating
	Bushing	In rod or piston	Rod
		Material	GM# 4077 - M Bronze
Clearance	In piston		.0003 - .0005 Loose
	In rod		.0003 - .0005 Loose
Direction & amount offset in piston			.090 to R. H. of Cylinder Bore Centerline

ENGINE—CONNECTING RODS

Material			Steel - S. A. E. #1139
Weight (oz.)			34.55 oz.
Length (center to center)			6.998
Bearing	Material & Type		Moraine 400 Aluminum with GM 3874 Babbitt Overlay - Steel Backed
	Overall length		.821 - .831
	Clearance (limits)		.0005 - .0025
	End play		(.004 - .009 Preferred) .002 - .011 (2 Rods Per Crankpin)

Rev. Form 6-57

AMA Specifications—Passenger Car

Page 4

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____

MODEL _____ 32 _____ 35 _____ 38

ENGINE—CRANKSHAFT

Material		S. A. E. #1145 Modified or S. A. E. #1046	
Vibration damper type		Rubber Absorption	
End thrust taken by bearing (No.)		Rear Upper and Lower	
Crankshaft end play		.004 - .008	
Main bearing	Material & type	#1-2-3-4 Steel Backed Aluminum Moraine 400 with GM 3874-M Babbitt Overlay.#5 Rear Steel Backed Durex 100A with GM 4176-M Babbitt Over	
	Clearance	#1 & 2 .0005-.0021 #3 & 4 .0008-.0024 #5 Rear .0020-.0034	
	Journal dia. and bearing overall length	No. 1	3.00 x 1.068
		No. 2	3.00 x .818
		No. 3	3.00 x .818
		No. 4	3.00 x .818
		No. 5	3.00 x 1.69
		No. 6	None
		No. 7	None
Dir. & amt. cyl. offset	None		
Crankpin journal diameter		2.50	

ENGINE—CAMSHAFT

Location		Center	
Material		Alloy Cast Iron	
Bearings	Material	Steel Backed GM 4195-M Babbitt	
	Number	5	
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		S.A. E. #1140, 1118, 1141, 1146, GM 85M Steel or A. S. T. M. B-310 Sintered Iron
	Camshaft gear or sprocket material		Cast Iron
	Timing chain	No. of links	48
		Width	.844
		Pitch	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard	
Valve rotator, type (intake, exhaust)		No	
Rocker ratio		1.8 to 1	
Operating tappet clearance (Indicate hot or cold)	Intake	None	
	Exhaust	None	
Timing marks on flywheel, damper, other		Crankshaft Balancer	

(Continued)

Rev. Form 3-59

AMA Specifications—Passenger Car

Page 5

MAKE OF CAR **OLDSMOBILE** MODEL YEAR **1962** DATE ISSUED **9/22/61** REVISED

MODEL 32 35 38

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (^o BTC)	14 ^o 0'	11 ^o 0'	11 ^o 0'
		Closes (^o ABC)	50 ^o 0'	59 ^o 0'	59 ^o 0'
		Duration - deg.			
	Exhaust	Opens (^o BBC)	54 ^o 0'	59 ^o 0'	59 ^o 0'
		Closes (^o ATC)	16 ^o 0'	25 ^o 0'	25 ^o 0'
		Duration - deg.			
Valve opening overlap					
Intake	Material		Thompson S. A. E. #3140 Steel - Eaton S. A. E. #8645 Steel		
	Overall length		5.093		
	Actual overall head dia.		1.875		
	Angle of seat & face		45 ^o		
	Seat insert material		None		
	Stem diameter		.3432 - .3427		
	Stem to guide clearance		.0010 - .0025		
	Lift		.428	.435	.435
	Outer spring press. and length	Valve closed (lb. @ in.)	90# @ 1.837		
		Valve open (lb. @ in.)	182 # @ 1.437		
	Inner spring press. and length	Valve closed (lb. @ in.)	None		
		Valve open (lb. @ in.)	None		
	Exhaust	Material		Thompson & Eaton - GM N82152 Steel	
Overall length		5.081			
Actual overall head dia.		1.562			
Angle of seat & face		45 ^o			
Seat insert material		None			
Stem diameter		.3945 - .3940			
Stem to guide clearance		.0015 - .0030			
Lift		.435	.437	.437	
Outer spring press. and length		Valve closed (lb. @ in.)	90# @ 1.837		
		Valve open (lb. @ in.)	182 # @ 1.437		
Inner spring press. and length		Valve closed (lb. @ in.)	None		
		Valve open (lb. @ in.)	None		

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Pressure
	Cylinder walls	Pressure

(Continued)

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 6

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____

MODEL _____ 32 _____ 35 _____ 38 _____

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear	
Normal oil pressure (lb. @ engine rpm)	35-45 at 50 M. P. H.	
Oil pressure sending unit (elect. or mech.)	Electric	
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, partial, other)	Full Flow	
Filter replacement (element, complete)	Complete	
Capacity of crankcase, less filter-refill (qt.)	4 Quarts	
Oil grade recommended (SAE viscosity and temperature range)	Above Freezing (+32° F.)	SAE 10W-30, SAE 20, SAE 20W
	Below Freezing	SAE 10W-30, SAE 10W
	Below 0° F	SAE 5W-20, SAE 5W
Engine Service Requirement (MM, MS, etc.)	MS or DG	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	(Dual Option) Single with Crossover	(Dual Option) Single with Crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)	585180 Reverse Flow	585180 585180
Exhaust pipe dia. (O.D.)	2.0" O.D. x .090	
Branch wall thickness	2.25" O.D. x .036 & .048 Laminated	
Main		
Tail pipe diameter (O.D. & wall thickness)	2.25" O.D. x .054	

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. If used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor		
Fuel Tank	Capacity (gals.)	20 Gallons		
	Filler location	Left Rear Quarter Panel		
Fuel Pump	Type (elec. or mech.)	Mechanical		
	Locations	Engine Front Cover		
	Pressure range	5 lbs. to 6 lbs. @ 16" Above outlet @ 1800 Camshaft R. P. M.		
Vacuum booster (std., optional, none)		Standard		
Fuel Filter	Type	Accreted & Saran Type		
	Locations	Fuel Pump & Gas Tank		
Carburetor	Make & Model No.		Rochester 2 GC Rochester 4 GC Rochester 4 GC	
	Number of carbs., bbls. per carb. & type		Single Dual	Single Quad. Single Quad.
	Barrel size		1.6875	1.5625 Prim. -1.6875 Sec'd.
	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air clnr. type	Standard	Alum. Foil Element Paper Element	
		Optional	Paper Element None	

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 7

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38 _____

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure System	
Radiator cap relief valve pressure			15 Pounds	
Circulation thermostat	Type (choke, bypass)		Choke	
	Starts to open at (°F)		167° to 172°	
Water pump	Type (centrifugal, other)		Centrifugal	
	Number of pumps		One	
	Drive (V-belt, other)		V-Belt	
	Bearing type		Ball	
By-pass recirculation type (internal, external)			Internal	
Radiator core type (cellular, tube and fin, other)			Tube and Center	
Cooling system capacity	With heater (qt.)		20.25	
	Without heater (qt.)		19.25	
	Opt. equipment-specify (qt.)		1.65 Additional for Air Conditioned Cars	
Water jackets full length of cylinder (yes, no)			Yes	
Water all around cylinder (yes, no)			Yes	
Radiator hose	Lower	Number and type (molded, straight)	S. A. E. 20 R 4 Class R - Grade 1A One - Molded - Modified	
		Inside diameter	1.75	
	Upper	Number and type (molded, straight)	S. A. E. 20 R4 Class R - Grade 1A One-Molded-Modified	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	None	
	Fan	Number of blades & Spacing		Four - 76° and 104° (Six-Air Conditioned Cars)
		Diameter		18 Inch (19 Inch - Air Conditioned Cars)
Ratio-fan to crankshaft rev.		.817 to 1 (1.133 to 1 Air Conditioned Cars)		
Fan cutout type		None (Fan Clutch-Air Conditioned Cars)		
Bearing type		Ball		
*Drive belts (indicate belt used by letter)	Fan		A	
	Generator		B	
	Water Pump		C	
	Power Steering		D	
	Air Conditioning		E	

Rev. Form 3-59

* Drive Belt Dimensions	A	B	C	D	E
Angle of V	36°	36°	36°	36°	36°
Nominal length (SAE)	59.50	59.50	59.50	64.50	67.50
Width	.380	.380	.380	.380	.380

AMA Specifications – Passenger Car

Page 8

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco-Remy 562
	Voltage Rtg. & Total Plates		12-V-11 Plates
	SAE Designation & Amp Hr. Rtg		3 KMB - 70 Amp HR
	Location		Engine Compartment, Front l. h. side
	Terminal grounded		Negative
Generator	Make		Delco Remy
	Model		
	Type		Shunt Field
	Ratio—Gen. to Cr/s rev.		2.24
	Gen. cut-in (hot)—engine rpm		525
Regulator	Make		Delco Remy
	Model		
	Type		Current and Voltage Regulated
	Cutout relay	Closing voltage @ generator rpm	11.8 to 13.5 Volts (Adjust to 12.8 Volts)
		Reverse current to open	- Not Specified -
	Regulated	Voltage	13.8 to 14.7 Volts
		Current	32 to 37 Amps (Adjust to 35 Amps)
	Voltage test conditions	Temperature	125° F
		Load	1/4 OHM Res. in Series with Bat. Term.
		Other	Run Engine for 15 Minutes @ 1600 RPM

ELECTRICAL—STARTING SYSTEM

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

AMA Specifications – Passenger Car

Page 9

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

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				
	Amps	Engine stopped	4.5		
Engine idling		2.0			
Distributor	Make		Delco Remy		
	Model		1111004	1110989	1110989
	Cent'fgal adv. In crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0-4° @ 800 R. P. M.		
		Intermediate points deg. @ rpm	18° - 22° @ 2400 R. P. M.		
		Max deg. @ rpm	24° - 28° @ 4000 R. P. M.		
	Vacuum adv. In crankshaft degrees @ in. Hg. (nominal)	Start (in Hg.)	6 - 8" HG.	7 - 9" HG.	7 - 9" HG.
		Intermediate points, deg @ in Hg			
		Max. deg. in. Hg.	26° @ 17" HG.	25° @ 18" HG	25° @ 18" HG
	Breaker gap (in.)		.016		
	Cam angle (deg.)		28 to 32°		
	Breaker arm tension (oz.)		19 to 23 oz.		
	Timing	Crankshaft deg. @ rpm. 850	5° (2 1/2° Low Comp.)	5°	5° (BTC)
Mark location		Vibration Dampener			
Cylinder numbering system (see page 2)		Right Bank 2-4-6-8: Left Bank 1-3-5-7 Front to Rear as Viewed from Drivers Seat			
Firing order (see page 2)		1-8-7-3-6-5-4-2			
Spark Plug	Make and model		AC - 44 (AC-45 Low Comp)	AC - 44	AC - 44
	Thread (mm)		14 MM		
	Tightening torque (lb. ft.)		23 - 28		
	Gap		.030		
Cable	Conductor type		Resistance	Cone	Cone
	Insulation type		Neoprene		
	Spark plug protector		Silicone		

ELECTRICAL—SUPPRESSION

Locations & type	Resistance Cone Spark Plug Leads and Coil Lead. By Pass Condensers at Generator, Regulator and Coil on Radio Equipped Cars.
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AMA Specifications – Passenger Car

Page 10

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Indicator Lamp
Temperature indicator—type		" "
Oil pressure indicator—type		" "
Fuel indicator—type		Gauge
Other	Upper Beam	Indicator Lamp
Ignition switch	Identify positions in order and circuits controlled	1 Accessory On, Ignition Off 2 All Off - Lock Position Run - 3 Accessory on, Ignition on through Resistor- Start - 4 Accessory Off, Ignition Direct, Solenoid On
	Provision for illumination	Yes
	Location	Instrument Panel Right of Driver
Main lighting switch	Identify positions and lamps controlled	1 Park, Tail, Instrument, License Lt. 2 Headlamps, Instrument, License Lt. Rotate Control Dims Instrument Lts.
Other light switches	Locations and lamps controlled	Foot Dimmer Courtesy Lt. Dome Lt.
		On L. H. Toe Pan - Controls Headlamps Hi and Lo Beam On Instrument Panel Overhang
Other switches	Locations and devices controlled	
Windshield wiper	Make	Delco Appliance Div.
	Type	Electric Single Speed
	Vacuum booster provision	No
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8 - 10 Amps - 11.5 Volts

AMA Specifications – Passenger Car

Page 11

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

ELECTRICAL—LAMP BULBS

Give quantity used and trade number, e.g., Headlamp 2-5400 S, dual headlight 2-4001, 2-4002.
 Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		Dual Head Lt. 2- 5948502 & 2- 5948501		
Headlamp beam indicator		1 - 158		
Parking		2 - 1034		
Tail		2 - 1034		4 - 1034
Stop		2 - 1034		4 - 1034
Direction signal	Front	2 - 1034		
	Rear	2 - 1034		
	Indicator	2 - 158		
License plate		1 - 67		
Instrument		6 - 158		
Ignition lock		1 - 53		
Back up		2 - 1073		
Dome		1 - 1004	1 - 1004 + 2 - 90	2 - 90
Clock		57 Borg	1816 - Wesclox	
Radio		1 - 1893		
Glove compartment		1 - 57		
Upper Beam		1 - 158		
Gen. Ind.		1 - 158		
Oil "P" Ind.		1 - 158		
Temp. Hi		1 - 158		
Temp Lo		1 - 158		
Ash Tray		2 - 53		
Shift Ind.		1 - 57		
Park Brake Lt.		1 - 57		
Under Hood Lt.		1 - 89		
Trunk Lt.		1 - 89		
Heat Cont.		2 - 57		
Courtesy Lt.°		2 - 90		
Safety Sent.		1 - 158		
Rear Courtesy Lts. (Convertible)		2 - 68		

Rev. Form 3-59

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 12

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED _____
 MODEL 32 35 38

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).

		20 CBA	
Headlamp			
Headlamp beam indicator		Same as (A)	
Parking lamp		Same as (A)	
Tail lamp		SFE 9 (B)	
Stop lamp		SFE 20 (C)	AGC 25 (C)
Direction Indicator		SFE 9 (D)	
License plate lamp		Same as (B)	
Instrument lamp		AGA 3 (E)	
Ignition lamp		Same as (E)	
Back up lamp		SFE 9 (F)	
Dome lamp		Same as (C)	Same as (C)
Clock	AGA - 1 Wesclow	AGA -2	Borg
Clock lamp		Same as (E)	
Radio	AGW - 2 1/2 Deluxe	AGW 7.5 Super DLX	
Glove compartment lamp		Same as B	
W/s Wiper		SFE 20	
Cigar Ltr		SFE 20	
Ind Lts		Same as (F)	
Fuel Gauge		Same as (F)	
Park Brake Lt.		Same as (F)	
Under Hood Lt.		Same as (B)	
Trunk Lt		Same as (B)	
Courtesy Lt		Same as (C)	
Heat Cont. Lt		Same as (E)	
Heater		SFE 20	AGC 25 with A/C

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	24.7	24.9
		Highest		
	Stop		24.7	24.9
	Backup		16.1	16.3
	License, rear		19.05	19.25
	Directional	Front	14.6	14.8
		Rear	24.7	24.9
	Headlamp	Inside	25.9	26.1
		Outside*	25.8	26.0
Distance from C/L of car to center of bulb	Tail	Inside	28.0	16.2
		Outside	28.0	28.0
	Stop		28.0	28.0
	Backup		22.1	22.1
	License, rear		C/L	C/L
	Directional	Front	25.2	25.2
		Rear	28.0	28.0
	Headlamp	Inside	21.3	21.3
		Outside*	28.2	28.2

* If single headlamps are used enter here.

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 13

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED ^(*)
 MODEL 32 - 35 38

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Long - 11CF - Semi-Centrifugal	N. A.
Type pressure plate springs		Coil	N. A.
Effective plate pressure (lb.)		1881 Static + 505 at 2800 RPM Centrifugal	N. A.
No. of clutch driven discs		One	N. A.
Clutch facing	Material	Woven Asbestos	"
	Outside & inside dia.	11 x 7	"
	Total eff. area (sq.in.)	113	"
	Thickness	.137 Each Facing	"
	Engagement cushioning method	Torbend Plate	"
Release bearing	Type & method of lubrication	Ball-Lube Fitting	"
Torsional damping	Methods: springs, friction material	Coil Steel	"

DRIVE UNITS—TRANSMISSIONS

Manual (std. or opt.)	Std.	Std.	None
Manual with overdrive (std. or opt.)	None	None	None
Automatic (std. or opt.)	Opt.	Opt.	Std.

DRIVE UNITS—MANUAL TRANSMISSION

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

Form Rev. 6-60

AMA Specifications – Passenger Car

Page 14

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	HYDRAMATIC					
Type describe	4 Stage, Controlled Coupling with Accel-A-Rotor					
Method of Selection (Lever, Push Button or other)	LEVER					
Selector Pattern	P	N	D	S	L	R
	Park	Neutral	Drive	Super	Low	Reverse
List gear ratios Selector Pattern and indicate which are used in each selector position	Drive & Super		Low		Reverse	
	1st Stage = 3.51:1		3.51:1		3.53:1	
	2nd Stage = 2.93:1		2.93:1		2.48:1	
	3rd Stage = 1.56:1		Not Used			
	4th Stage = Direct		Not Used			
Max. upshift speeds—drive range	1-2 *		2-3 = 35 MPH		3 - 4 = 78 MPH	
Max. kickdown speeds—drive range	2-1 *		3-2 = 24 MPH		4 - 3 = 68 MPH	
Torque converter	Number of elements		None			
	Max ratio at stall		None			
	Type of cooling (air, water)		Water			
Lubricant	Capacity—refill (pt.)		11 Pints			
	Type recommended		Type - A - Automatic Transmission Fluid with Suffix A			
Special transmission features	* Accel-A-Rotor and Rear Unit Gears Produce Starting Ratio for 1st Stage. As the Car Speed Increases Accel-A-Rotor Effectiveness Diminishes Gradually.					

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 15

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED (*)

MODEL 32 35 38

DRIVE UNITS—PROPELLER SHAFT

Number used		One		
Type (exposed, torque tube)				
Outer diameter x length* x wall thickness	Manual transmission	3.25 x 55.58 x .065	None	
	Overdrive transmission	None		
	Automatic transmission	3.25 x 55.58 x .065	3.00 x 58.58 x .065	
Inter-mediate bearing	Type (plain, anti-friction)	None		
	Lubrication (fitting, prepack)	None		
Universal joints	Make	Saginaw Steering Gear and Spicer		
	Number used	2		
	Type (ball and trunnion, cross, other)	Cross		
	Bearing	Type (plain, anti-friction)	Anti-Friction Roller	
		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 - (incl. limited slip differential)		Banjo Type Housing, Hotchkiss Drive, Semi-Floating Axles and Hypoid Gears		
Drive Pinion Offset		1.75		
No. of differential pinions		2		
Gear ratio and No. of teeth	Manual transmission	3.23:1	3.23:1	N. A.
	Overdrive transmission	None		
	Automatic transmission	2.56:1	2.87:1	3.08:1
Ring gear pitch diameter & O.D.		9.25		
Pinion adjustment (shim, other)		Shim		
Pinion bearing adj. (shim, other)		Coll. Spacer		
Wheel bearing type		Prepack Ball		
Lubricant	Capacity (pt.)	5.58		
	Type recommended	Multi-Purpose		
	SAE viscosity number	Summer	90	
		Winter	90	
		Extreme cold	90	

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

Form Rev. 6-60

AMA Specifications – Passenger Car

Page 16

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED (*)

MODEL 32 35 38

DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.00 - 14	8.00 - 14 4 Ply	8.50 - 14
	Type - Nylon, etc.	Rayon		
Rev/mile at 30 mph.		755	755	735
Inflation press (cold)	Front	22	22	22
	Rear	22	22	22

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)				Duo - Servo			
Power brake make & type (remote, integral, etc.)				Moraine & Bendix (Integral)			
Effective area (sq. in.)*				156.8			
Gross lining area (sq. in.)**				191.7			
Swept drum area (sq. in.)***				310.0			
Percent brake effectiveness--front				56%			
Drum	Diameter	Front		11.0			
		Rear		11.0			
	Type and material			Centrifuse Cast Iron in Steel Shell			
Brake lining	Bonded or riveted			Riveted			
	Front Shoe	Material		Marshall 4641 Pri.			
		Size (length x width x thickness)	Front wheel	12 x 2.50 x .25			
			Rear wheel	12 x 2.00 x .25			
		Segments per shoe			One		
	Rear Shoe	Material		Marshall 9795 D			
		Size (length x width x thickness)	Front wheel	9 x 2.50 x .25			
			Rear wheel	9 x 2.00 x .25			
		Segments per shoe			One		
	Wheel cyl-inder bore	Front		1 1/8			
Rear		1"					
Master cylinder bore				1" Manual		1" Power	
Available pedal travel				6.47 Manual		3.60 Power	
Line pressure at 100 lb pedal load				750 Psi Manual		700 @ 50 lb. Pedal Load	
Shoe clearance adjustment				.015			

* Excludes rivet holes, grooves, chamfers, etc.

** Includes rivet holes, grooves, chamfers, etc

*** Total swept areas for four brakes:

Widest lining contact width for each brake x its drum circumference.

Form Rev. 6-60

AMA Specifications—Passenger Car

Page 17

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 _____ 35 _____ 38

BRAKES—PARKING

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

FRAME or UNITIZED CONSTRUCTION

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

SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)*

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

SUSPENSION—FRONT

Type and description	Independent Coil Spring
----------------------	-------------------------

(Continued)

Rev. Form 3-59

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

AMA Specifications – Passenger Cars

Page 18

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 35 38

SUSPENSION FRONT (cont.)

Spring	Type	Independent Coil Spring		
	Material	SAE 9260		
	Size (coil design height & I.D.; bar length x dia.)	11" Design Height - 4.05 F.D. 181" Long .703 Dia.		
	Spring rate (lb. per in.)	285		
	Rate at wheel (lb. per in.)	84		
Stabilizer	Design load (lb. @ design height)	2360 @ 11"	2430 @ 11"	2500 @ 11"
	Type (link, linkless, frameless)	Link		
	Material & bar diameter	SAE 1070 - .906	.906	.938

STEERING

Mechanical (std., opt., NA)			Standard		N. A.	
Power (std., opt., NA)			Optional		Standard	
Wheel diameter			17.00		17.00 16.00	
Turning diameter	Outside front	Wall to wall (l. & r.)	48'3" - 46'11"		48'8" - 49'	
		Curb to curb (l. & r.)	45'7.5" - 45'11.5"		46'6" - 46'7" Not Available	
	Inside rear	Wall to wall (l. & r.)	29'1" - 27'5.5"		29'6" - 29'10"	
		Curb to curb (l. & r.)	29'6" - 27'10"		30' - 30'3"	
Outside wheel angle with inside wheel at 20°			Manual 23° Power 24°			

Mechanical	Gear	Type		Ball Nut	N. A.
		Make		Saginaw Steering Gear	"
		Ratios	Gear	24. 0:1	"
			Overall	33. 12:1	"
	No. wheel turns		6. 1 (Lock to Lock)	"	
Power	Type (coaxial, linkage, etc.)		Gear Integral		
	Make		Saginaw Steering Gear		
	Trade name		Roto - Matic		
	Gear	Type		Ball Nut	
		Ratios	Gear	17. 5:1	
			Overall	21. 8:1	
	Pump driven by		Belt from Crank		
	Number wheel turns		3. 6 (Lock to Lock)		
	Linkage	Type		Forged	
Location (front or rear of wheels, other)		Rear			
Drag link (trans. or longlt.)		Transverse			
Tie rods (one or two)		2			

(Continued)

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 19

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____
 MODEL _____ 32 35 38

STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		10° at + 1° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	"
		Thrust	"
Wheel alignment (range and preferred)	Caster (deg.)		Range 0 to 1° Negative
	Camber (deg.)		Range - .250 to + .750
	Toe-in (outside tread-inches)		0 to .125
	Steering spindle & joint type		Ball Joint
Wheel spindle	Diameter	Inner bearing	1.3748 - 1.3743
		Outer bearing	.8435 - .8430
	Thread size		13/16 - 20
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description			4 Link Coil Spring			
Drive and torq. taken through (see page 15)			Arms			
Spring	Type		Coil			
	Material		SAE # 5160 or 9260			
	Size (length x width, coil design height and I.D.; bar length & dia.)		9.00 Design Height - 5.50 F.D. 148" Long .580 Dia.			
	Spring rate (lb. per in.)		100			
	Rate at wheel (lb. per in.)		100			
	Design load (lb. at design height)		1000 @ 9" 1020 @ 9" 1040 @ 9"			
	Mounting insulation type		Rubber			
	If leaf	No. of leaves		-		
		Inserts	Type and size	-		
Material			-			
Shackle (comp. or tens.)		-				
Stabilizer	Type (link, linkless, frameless)		None			
	Material		None			
Track bar type			None			

Rev. Form 3-59

AMA Specifications – Passenger Car

Page 20

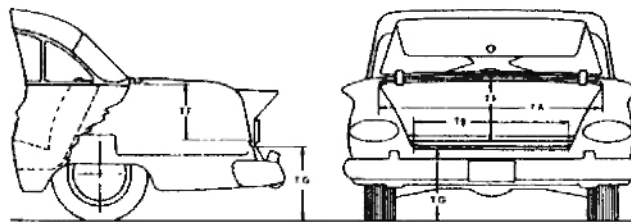
MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____

BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Subcommittee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body Dimensions are for all basic body models as indicated.
2. All interior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "A" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. 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.
7. DLO (Daylight opening - pages 22 & 24)
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

BODY—TRUNK DIMENSIONS



MODEL	32	35	38
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	15.3		16.3
Total trunk volume in cu. ft. with spare tire in place	38.5		39.6
TA—Width across the top		54.0	
TB—Width across the bottom		53.8	
TF—Vertical dimension at C/L from bottom to top of opening	8.9		8.8
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal—loaded)		29.8	
Position of spare tire stowage		Top of Kick-up	
Method of holding lid open		Counterbalance Torque Rods	

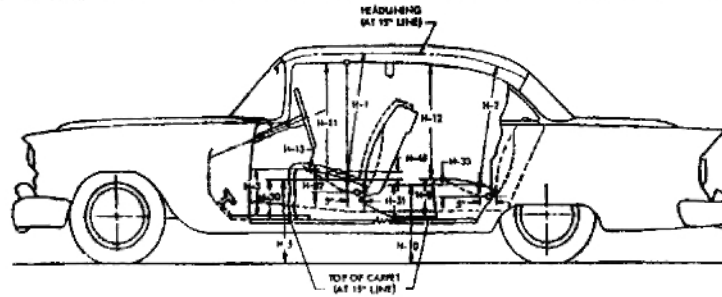
Rev. Form 3-59

AMA Specifications – Passenger Car

Page 21

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED _____

BODY—HEIGHT DIMENSIONS—INTERIOR



MODEL	32	35	38
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	34.6	33.9	34.3
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	34.1	33.4	34.2
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	12.0	12.4	12.4
H5. Free "A" pt to ground, front. Measured vertically	20.8	21.4	21.6
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	13.4	14.4	14.4
H10. Free "A" point to ground rear. Measured vertically	19.6	20.2	20.4
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	29.4	28.6	29.5
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	28.2	27.2	27.9
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	5.0	4.3	4.3
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	11.2	11.8	11.8
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	11.9	12.6	12.6
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.8	5.4	5.1
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.1	4.7	4.7
H45. Front seat maximum vertical rise at free "A" point	.7	.7	.6

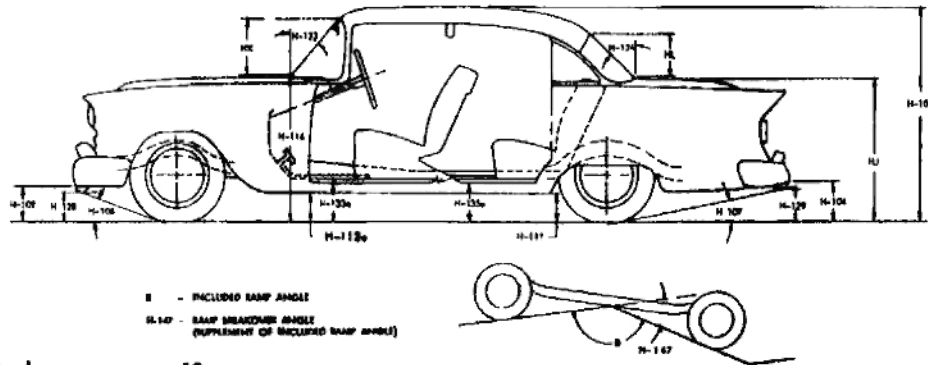
Rev. Form 3-59

AMA Specifications— Passenger Car

Page 22

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED (a)

BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	32	35	38
H101. Overall height, full design load	55.8	55.8	56.6
HB. Overall height, curb weight	58.3	58.3	59.1
H102. Front bumper bottom to ground at normal section, min. height	11.8	11.8	12.1
H104. Rear bumper bottom to ground at normal section, min. height	11.3	11.3	11.5
H106. Angle of approach. To interfering point on bumper, guard, other	30° 7'	30° 7'	30° 34'
H107. Angle of departure. To interfering point on bumper, guard, other	12° 48'	12° 48'	12° 30'
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.	8.2	8.2	8.5
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.	8.7	8.7	8.9
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	38.2	38.2	38.4
H122. Windshield normal slope angle to vertical line on car C/L	55°	55°	55°
H124. Backlight normal slope angle to vertical line on car C/L	47°	47°	51° 30'
H128. Bottom of front bumper guard to ground	No Guard		
H129. Bottom of rear bumper guard to ground	No Guard		
H133a. Bottom of front door to ground, min. dimension	11.8	11.8	12.0
H135a. Bottom of rear door to ground, min. dimension	11.6	11.6	11.8
H147. Ramp breakover angle	11° 30'	11° 30'	11° 15'
H153. Min. road clearance at rear axle	6.5	6.5	6.8
H156. Min. road clearance and location	5.9 **	5.9 **	6.2 **
HJ. Deck at rear window to ground	36.3	36.3	36.4
HK. Windshield DLO*. Vertical height at C/L	14.0	14.0	14.0
HL. Back light DLO*. Vertical height at C/L	15.0	15.0	15.7

* See Note, page 20

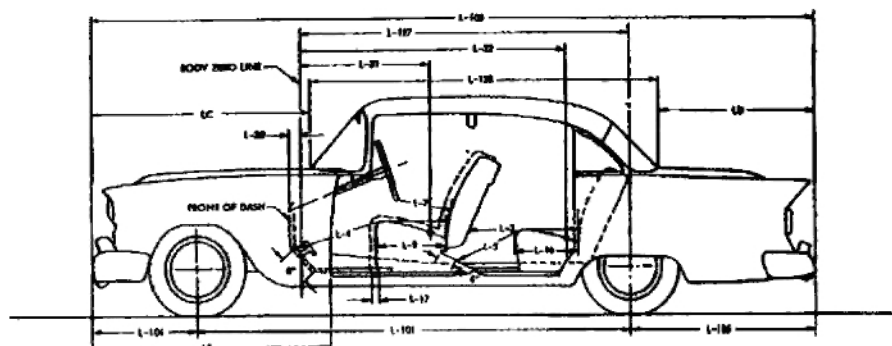
** Frame to Ground

AMA Specifications—Passenger Car

Page 23

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED _____

BODY—LENGTH DIMENSIONS



MODEL		32	35	38
Interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	28.8	28.6	31.6
	L4. Leg room, front. Ball of foot to top of seat to seat back	44.4	44.1	44.2
	L5. Leg room, rear. Ball of foot to top of seat to seat back	41.4	42.0	44.7
	L7. Steering wheel clearance to seat back taken on arc	13.6	13.2	13.3
	L9. Front seat depth. Front edge to vert. tan. of seat back	18.5	18.1	18.1
	L16. Rear seat depth. Front edge to vert. tan. of seat back	18.3	18.6	18.6
	L17. Maximum "A" point horizontal travel with normal seat adjustment	4.8	4.8	4.8
	L30. Vertical body zero line to actual front of dash. Measured horizontally*	-.54	-.54	-.54
	L31. Vertical body zero line to free "A" point, front	40.62	40.27	40.28
	L32. Vertical body zero line to free "A" point, rear	76.29	76.29	76.29
Exterior	L101. Wheelbase	123.0	123.0	126.0
	L103. Overall length. Incl. bumper guards if standard equipment	213.9	213.9	220.0
	L104. Overhang, front. Include bumper guards if stand. eq.	33.8	33.8	33.8
	L105. Overhang, rear. Include bumper guards if stand. eq.	57.3	57.3	60.4
	L123a. Body upper structure length at C/L, excl. molding	102.2	102.7	105.4
	L127. Vertical body zero line to centerline of rear wheels	101.9	101.9	104.9
	LC. Front of car to base windshield, excl. molding	60.2	60.2	60.2
	LD. Rear of car to base of rear window or upper structure, excl. molding	52.4	52.4	55.2
	LE. Front of car to front edge of front door	69.1	69.1	69.1

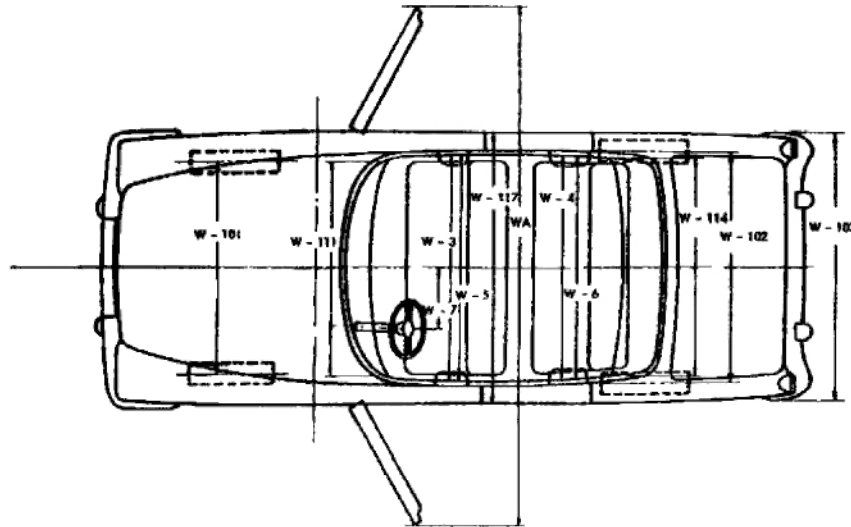
* Precede figure with minus sign if front of dash is to rear of body zero line.

AMA Specifications—Passenger Car

Page 24

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED (e)

BODY—WIDTH DIMENSIONS



MODEL		32	35	38
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5' forward of seat back	58.8	58.7	58.8
	W4. Rear shoulder room, at garnish molding height or nearest interference 5' forward of seat back	57.8	57.8	57.3
	W5. Front hip room, at top of seat 5' forward of vert. tan. to seat back	63.3	63.0	62.8
	W6. Rear hip room, at top of seat 5' forward of vert. tan. to seat back	63.4	63.1	62.8
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	15.9	15.9	15.9
Exterior	W101. Front tread at ground	61.0	61.0	61.0
	W102. Rear tread at ground	61.0	61.0	61.0
	W103. Max. overall width of car incl. bumpers or moldings (specify location).	77.9	77.9	77.9
	WA. Max. overall width of car with doors open (2 & 4 door)	4 Door 141.2	2 Door - 158.1	Same
	W111. Windshield DLO, max. width	61.4	61.4	61.4
	W114. Back window DLO, max. width	59.4	59.4	59.5
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	76.3	76.3	76.3
	W117. Max. body width at center pillar, less hardware and applied moldings	76.1	76.1	76.0

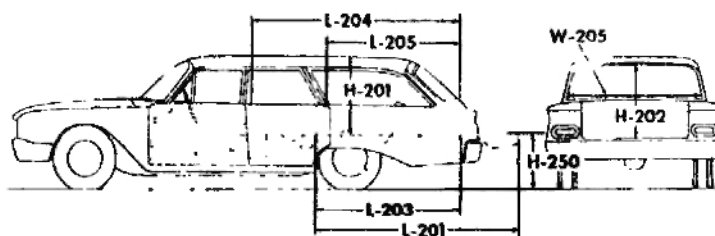
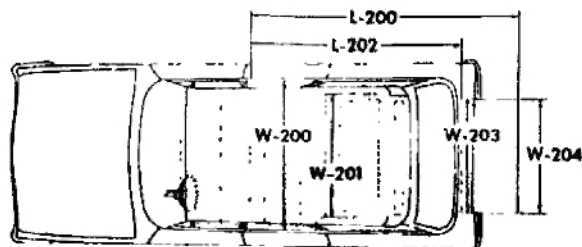
Form Rev. 6-60

AMA Specifications – Passenger Car

Page 25

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE: ISSUED 9/22/61 REVISED(*)

STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and normal rear position for all measurements. Lengths and heights measured at car centerline.

MODEL	32	35
L200 Floor length from back of front seat at floor level to end of lowered tail gate		122.7
L201 Floor length from back of second seat at floor level to end of lowered tail gate		88.1
L202 Floor length from back of front seat at floor level to inside of closed tail gate		92.6
L203 Floor length from back of second seat at floor level to inside of closed tail gate		58.1
L204 Minimum horizontal distance from top rear of front seat back to inside of top of tail gate		82.8
L205 Minimum horizontal distance from top rear of second seat back to inside of top of tail gate		46.2
W200a Maximum width of cargo space at floor, specify location		62.1
W201 Minimum distance between wheel houses at floor level		48.5
W203 Rear end opening width at floor		54.4
W204 Rear end opening width at top of tail gate		54.7
W205 Maximum width of rear opening above raised tail gate		54.2
H201 Maximum height, floor covering to headlining at centerline of rear axle		31.2
H202 Maximum height of rear opening, tail and lift gates open		30.4
H250 Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight		28.5
Third Seat, facing direction		Rear
Tail and lift gates or sliding glass	Window rolls down, door folds down	
Cargo volume index (cu. ft.) W4 (P. 24) X L204 X H201		86.56

AMA Specifications – Passenger Car

Page 26

MAKE OF CAR OLDSMOBILE MODEL YEAR 1962 DATE ISSUED 9/22/61 REVISED (a)

MODEL 32 35 38

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front		
	Rear doors	Front		
Type of finish (lacquer, enamel, other)		Lacquer		
Hood hinge location (front, rear)		Rear		
Hood counterbalanced (yes, no)		Yes		
Hood release control (internal, external)		External		
Vehicle (Serial) No. Location		Front Door Hinge Post L. H.		
Engine No. Location				
Theft protection - type		Key Type Starting System		
Vent window control method (crank, friction pivot)	Front	Crank		
	Rear	Crank		
Seat cushion type	Front	Zig - Zag		Zig-Zag
	Rear	" "		" "
Seat back type	Front	" "		" "
	Rear	Formed Wire		" "
Windshield type (single curved, compound curved, other)		Compound Curve		
Rear window type (flat, curved, one piece, three piece)		Curved - one Piece		
Side glass type (curved, flat)		Flat		
Side glass exposed surface area		1446.7		1801.9
Windshield glass exposed surface area		1668.3		1668.3
Backlight glass exposed surface area		1283.1		1467.3
Total glass exposed surface area		4398.1		4937.5

Page 27

MAJOR OPTIONAL ITEMS - WEIGHTS

Rev. Form 3-59

INDEX

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