

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;">F-85 & CUTLASS</p>	
MAILING ADDRESS <p style="text-align: center;">LANSING, MICHIGAN</p>	MODEL YEAR <p style="text-align: center;">1965</p>	ISSUED: 9-24-64
	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	Weights 23
Engine - Mechanical 2	Brakes 18	Station Wagon 1a	Index 24
Electrical 10	Front Suspension & Steering . . 19		

BODY—TYPES AND STYLE NAMES—

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

Body Type	No. of Passengers	V-6		V-8		Cutlass
		Std.	Dlx.	Std.	Dlx.	
Club Coupe		33327	33527	33427	_____	33827
Station Wagon (2 Seat)		33335	33535	33435	33635	_____
4 Door Sedan		33369	33569	33469	33669	_____
Hardtop Coupe		_____	_____	_____	_____	33837
Convertible		_____	_____	_____	_____	33867

Vista Cruiser Station Wagons - See Separate AMA

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED(•) _____

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	33469	33837
Wheelbase (L101)	23	115	115
Tread	Front (W101)	58	58
	Rear (W102)	58	58
Maximum Overall Dimensions	Length (L103)	204.3	204.3
	Width (W103)	73.8	74.4
	Height (H101)	54.5	54.0
Transmission— (Specify trade name - opt., not available)	Manual	Std.	Std.
	Overdrive	N. A.	N. A.
	Automatic	Opt.	Opt.
Axle ratio	Manual	3.08:1	3.23:1
	Overdrive	N. A.	N. A.
	Automatic	2.78:1	3.08:1
Tire size	18	7.35x14	7.35x14
Engine	Type, no. cyl., valve arr. 2	90° O. H. V. V-8	
	Fuel system (Carb., other) 8	CARBURETOR	
	Bore and stroke 2	3.9385 x 3.385	
	Piston displ., cu.in. 2	330	
	Std. compression ratio 2	9.00:1	10.25:1
	Max. bhp at engine rpm 2	250 @ 4800	315 @ 5200
	Max. torque at rpm 2	335 @ 2800	360 @ 3600

AMA Specifications — Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED(e) _____

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL	Additional Information Page No.:	F-85 V-6 33369
Wheelbase (L101)	23	115
Tread	Front (W101)	58
	Rear (W102)	58
Maximum Overall Dimensions	Length (L103)	204.3
	Width (W103)	73.8
	Height (H101)	54.5
Transmission— (Specify trade name - opt., not available)	Manual	Std.
	Overdrive	N. A.
	Automatic	Opt.
Axle ratio	Manual	3.23:1
	Overdrive	N. A.
	Automatic	3.08:1
Tire size	18	6.95x14
Engine	Type, no. cyl., valve arr. 2	90° O.H.V. V-6
	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

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (e)

GENERAL SPECIFICATIONS — DIMENSIONS

(All dimensions in inches unless otherwise indicated)
(Supplemental data available on request)

MODEL	Ref. No.	33469	33837
-------	----------	-------	-------

FRONT COMPARTMENT

Shoulder room	W3	58.8	58.2
Max. eff. leg room - accelerator	L34	41.4	41.2
Effective head room	H61	38.2	37.8
H Point to Heel point	H30	8.7	8.1
Upper body opening to ground	H50	49.1	49.6

REAR COMPARTMENT

Shoulder room	W4	58.8	56.5
H Point couple distance	L50	33.5	31.6
Minimum effective leg room	L51	36.0	33.2
Effective head room	H63	37.3	36.7

STATION WAGON—THIRD SEAT

Shoulder room	W85	SEE VISTA CRUISER AMA'S	
Effective leg room	L86		
Effective head room	H86		

LUGGAGE COMPARTMENT

Usable luggage capacity (See instr.)	V1	20.1	
Liftover height	H195	30.1	30.1
Position of spare tire storage			
Method of holding lid open		Counter Balance	

STATION WAGON—CARGO SPACE

Minimum distance between wheel houses at floor level	W201	44.7	N. A.
Rear end opening width at belt	W204	53.0	N. A.
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.0	N. A.
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	81.0	N. A.
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.9	NA.
Maximum height of rear opening - tail and lift gates open	H202	28.1	NA
Cargo volume index (cu.ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	85.2	N. A.

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED ^(a)

MODEL 33469 33837

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° V-8 O.H.V.	
Bore and stroke (nominal)	3.9385 x 3.385	
Piston displacement, cu. in.	330	
Bore spacing (C/L to C/L)	4.625	
No. system (front to rear)	L. Bank	1-3-5-7
	R. Bank	2-4-6-8
Firing order	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)	9.00:1	10.25:1
Cylinder Head Material	Cast Iron	
Cylinder Block Material	Cast Iron	
Cylinder Sleeve—Wet, dry, none	None	
Number of mounting points	Front	Two
	Rear	One
Engine installation angle	4° 37'	
Taxable $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{\text{horsepower}}$	49.6	
Published max. bhp* @ eng. RPM	250 @ 4800	315 @ 5200
	335 @ 2800	360 @ 3600
Published max. torque* (lb. ft. @ RPM)	REGULAR	
	PREMIUM	
Recommended fuel regular - premium		
Idle speed (spec. neutral or drive)	Manual	600
	Automatic	500 In Drive

ENGINE—PISTONS

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

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

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL F-85 V-6 33369

ENGINE—GENERAL

Type, no. cyls., valve arr.	V-6 90 In Head	
Bore and stroke (nominal)	3.75 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	
Compres. 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	Di _a 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 (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 1965 DATE ISSUED 9-24-64 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		
33300 & 33500	225	1 bbl.	9.00	155 @ 4400	225 @ 2400	Syncromesh Jetaway Syncromesh 4Sp.	3.23:1 3.08:1 3.23:1
33400 & 33600	330	2 bbl.	9.00	250 @ 4800	335 @ 2800	Syncromesh Jetaway Syncromesh 4Sp.	3.08:1 2.78:1 3.08:1
33800	330	4 bbl.	10.25	315 @ 5200	360 @ 3600	Syncromesh Jetaway Syncromesh 4Sp.	3.23:1 3.08:1 3.23:1
33327 33827 33837 33867	400	4 bbl.	10.25	345 @ 4800	440 @ 3200	Syncromesh Jetaway Syncromesh 4Sp.	3.55:1 3.23:1 3.55:1

AMA Specifications – Passenger Car

MAKE OF CAR	OLDSMOBILE	MODEL YEAR	1965	DATE ISSUED	9-24-64	REVISED (*)
MODEL	33469					33837

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.		Compression
	No. 2, oil or comp.		Compression
	No. 3, oil or comp.		Oil
	No. 4, oil or comp.		None
Compression	Description - material, type, coating, etc.	Cast Iron-Upper Ring: Chrome Plated O. D. Taper Face Lower Ring: Parco Lubrited. Taper Face	
	Width	#1 - .0775 - .0780 #2 - .0770 - .0780	
	Gap	.010 - .020	
Oil	Description - material, type, coating, etc.	Two Rails: Spring Steel Chrome Plated Spacer: Stainless Steel	
	Width	Rails: .0235 - .0250 Each Spacer .137-.139	
	Gap	.015 - .055	
Expanders		None	

ENGINE—PISTON PINS

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

ENGINE—CONNECTING RODS

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

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL F-85 V-6 33369

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 Cast Iron - Chrome Plated #2 Cast Iron - Lubrited
	Width	#1 - .0785 - .0789 #2 - .077 - .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 SAE 1018 or 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.)	20.8	
Length (center to center)	5.960	
Bearing	Material & Type	Removable Steel Backed - M/400 Aluminum
	Overall length	.737
	Clearance (limits)	.0020 - .0023
	End play	.006 - .014 (A)

(A) Total For Both Rods.

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL 33469 33837

ENGINE—CRANKSHAFT

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

ENGINE—CAMSHAFT

Location		Center		
Material		Alloy Cast Iron		
Bearings	Material	Steel Backed G. M. 4195 - M Babbitt		
	Number	5		
Gear or chain		Chain		
Type of Drive	Crankshaft gear or sprocket material		SAE 1118, 1140, 1141, 1146, G. M. 85M Steel or A. S. T. M. 3-310 Sintered Iron	
	Camshaft gear or sprocket material		SAE 308 Aluminum With Nylon Teeth Optional: Cast Iron	
	Timing chain	No. of links	48	
		Width	.750	
Pitch		.500		

ENGINE—VALVE SYSTEM

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1965 **DATE ISSUED** 9-24-64 **REVISED** (*)

MODEL F-85 V-6 33369

ENGINE—CRANKSHAFT

Material		Pearlitic Malleable Iron		
Vibration damper type		Rubber Absorption		
End thrust taken by bearing (No.)		Two		
Crankshaft end play		.004 - .008		
Main bearing	Material & type	Steel Backed - Removable - #4 Lower M/100 Durex		
	Clearance	.0005 - .0021		
	Journal dia. and bearing overall length	No. 1	2.4995 - .864	
		No. 2	2.4995 - 1.057	
		No. 3	2.4995 - .864	
		No. 4	2.4995 - .864	
		No. 5	None	
No. 6	None			
No. 7	None			
Dir. & amt. cyl. offset		None		
Crankpin journal diameter		2.000		

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 1965 DATE ISSUED 9-24-64 REVISED ^(*)

MODEL 33469 33837

ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	12	21	
		Closes (°ABC)	58	77	
		Duration - deg.	250	278	
	Exhaust	Opens (°BBC)	60	71	
		Closes (°ATC)	24	31	
		Duration - deg.	264	282	
Valve opening overlap		36	52		
Intake	Material		SAE 1041, 1047 Steel		
	Overall length		4.740		
	Actual overall head dia.		1.875		
	Angle of seat & face		46° Valve Face 45° Seat		
	Seat insert material		None		
	Stem diameter		.3432 - .3425		
	Stem to guide clearance		.0010 - .0027		
	Lift (@ zero lash)		.389	.433	
	Outer spring press. and length	Valve closed (lb. @ in.)	80 @ 1.670		
		Valve open (lb. @ in.)	187 @ 1.270		
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper		
		Valve open (lb. @ in.)			
Exhaust	Material		G. M. N82152 Steel		
	Overall length		4.728		
	Actual overall head dia.		1.562		
	Angle of seat & face		46° Valve Face 45° Seat		
	Seat insert material		None		
	Stem diameter		.3427 - .3420		
	Stem to guide clearance		.0015 - .0032		
	Lift (@ zero lash)		.390	.433	
	Outer spring press. and length	Valve closed (lb. @ in.)	80 @ 1.670		
		Valve open (lb. @ in.)	187 @ 1.270		
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper		
		Valve open (lb. @ in.)			

ENGINE—LUBRICATION SYSTEM

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

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED ^(*)

MODEL F-85 V-6 33369

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		*	
	Stem to guide clearance		.0012 - .0032	
	Lift (@ zero lash)		.391	
	Outer spring press. and length	Valve closed (lb. @ in.)	64 @ 1.640	
		Valve open (lb. @ in.)	168 @ 1.250	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		G. M. - N82152 (21-4N)
		Overall length		4.545
Actual overall head dia.		1.375		
Angle of seat & face		45°		
Seat insert material		None		
Stem diameter		.3412/.3402 (Top) - .3407/.3397 (Bottom)		
Stem to guide clearance		.0015/.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 @ 1.250	
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 & Nozzle
	Cylinder walls	Splash & Nozzle

* .3410 ± .0005 Dia. Max. Allowable Taper to be .0003 With Smallest Dia. Valve.

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL 33469 33800

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	30-45 @ 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 Quarts
Oil grade recommended (SAE viscosity and temperature range)	Above 32 °F - SAE 10W30, SAE 20W Below 32 °F & Above 0 °F - SAE 10W30, 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)	One Reverse Flow Muffler & Separate Resonator
Exhaust pipe dia. (O.D. & wall thickness)	Branch 2.00 x .076
	Main 2.25 x .076
Tail pipe diameter (O.D. & wall thickness)	.048 x 1.995 2.25 x .076 Int. 2.00 x .048 Tail

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 Exhaust Available with 4 bbl. H. C. Engine on 33427, 33469, 33669, 33827, 33837, 33867.

L. H. Exhaust 2.25 x .076
L. H. Tail Pipe 2.00 x .048

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (•) _____

MODEL _____ F-85 V/6 33369

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	33 @ 2400
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 and Can
Capacity of crankcase, less filter-refill (qt.)	Four
Oil grade recommended (SAE viscosity and temperature range)	Above 32 °F 10W30, 20W or 20 Below 32° To 0°F 5W20, 10W Below 0 °F 5W20, 5W
Engine Service Requirement (MM, MS, etc.)	Passing Car Makers Test GM-4745M

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with Crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)	One Reverse Flow
Exhaust pipe dia. (O.D. Branch wall thickness)	1.8750 - .076
	Main 2.00 x .076
Tail pipe diameter (O.D. & wall thickness)	1.75 x .048

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	Induction System Plus Engine Air Cleaner
Control unit	Make and model	AC - CV684
	Location	Assembles in Rocker Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum
Complete system	Control method (variable orifice, fixed orifice, other)	Variable Orifice
	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Engine Induction System
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap in Standard System Engine Air Cleaner in Optional System
	Flame arrestor (screen, check valve, other)	Check Valve in Flow Control Valve

AMA Specifications— Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED ^(*)

MODEL 33469 33837

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 Wagons Left Rear Quarter
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Right Front on Block
	Pressure range	7 3/4 - 9 PSI
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Sintered Bronze & Saran Type
	Locations	Carburetor & Fuel Tank
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air clnr. type	Paper None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
33400 & 33600 Std.	330	S. M. T. & Jetaway	Rochester	2 GC	1	1 11/16
33400 & 33600 Opt. 33800 Std.	330	S. M. T. & Jetaway	Rochester	4 GC	1	Prim. 1 7/16 Sec. 11/16

AMA Specifications— Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (a)

MODEL F-85 V-6 33369

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 Behind License Plates
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Engine
	Pressure range	4.25 - 5.75 (At Carburetor)
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Pourous Metal
	Locations	Carburetor
Carburetor	Choke type	Integral Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air clnr. type	Polyurethane
	Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
			None			

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED(*)

MODEL 33469 33837

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	22	
	Number of pumps	1	
	Drive (V-belt, other)	V-Belt	
Bearing type		Ball	
By-pass recirculation type (internal, external)		External	
Radiator core type (cellular, tube and fin, other)		Tube & Center	
Cooling system capacity	With heater (qt.)	17.0	
	Without heater (qt.)	16.25	
	Opt. equipment-specify (qt.)	19.25 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	1.75
	By-pass	Number and type (molded, straight)	1 Molded
		Inside diameter	.73
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 48.5 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 1965 DATE ISSUED 9-24-64 REVISED (e)

MODEL F-85 V-6 33369

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	14	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
Bearing type		Double Row	
By-pass recirculation type (internal, external)		External	
Radiator core type (cellular, tube and fin, other)		Tube & 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	None
	Number of blades & Spacing		Four (76x104)
	Diameter		17.12
Ratio-fan to crankshaft rev.		.85 (1.15 With A/C)	
Fan cutout type		None (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 & Water Pump	
	Water Pump	"A" Fan & Generator	
	Power Steering	"B"	
	Air Conditioning	"C"	

	"A"	"B"	"C"
* Drive Belt Dimensions			
Angle of V	38	38	38
Nominal length (SAE)	43.92	53.00	60.00
Width	.38	.47	.47

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL _____ 33469 _____ 33837

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco Remy 1980558		
	Voltage Rtg. & Total Plates	12V - 66 Plates		
	SAE Designation & Amp Hr. Rtg	25 MD - 61 Amp. Hr.		
	Location	Engine Compartment - Front L. H. Side		
	Terminal grounded	Negative		
Generator	Make	Delco Remy		
	Model	1100705		
	Type	Self Rectifying AC		
	Ratio—Gen. to Cr/s rev.	2.33		
	Gen. cut-in (hot)—engine rpm	Charge on Idle		
Regulator	Make	Delco Remy		
	Model	1119515		
	Type	Vibrating Contact		
	Cutout relay	Closing voltage @ generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.5 - 14.4	
		Current	None - Self Regulating	
	Voltage test conditions	Temperature	120° F	
		Load	Less Than 10 Amps.	
Other		Upper Contacts		

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco Remy		
	Model	1107298	1107330	
	Rotation (drive end view)	Clockwise		
	Engine cranking speed	15°		
	Test conditions	80° F		
	Lock test	Amps	Not Specified	
		Volts	Not Specified	
		Torque (lb. ft.)	Not Specified	
	No load test	Amps	110 to 140	
		Volts	10.6	
RPM (min.)		3900		
Motor control	Switch (solenoid, manual)	Solenoid		
	Starting procedure	Turn Ignition Switch 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 1965 DATE ISSUED 9-24-64 REVISED(*)

MODEL F-85 V-6 33369

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1980558
	Voltage Rtg. & Total Plates		12 V - 66 Plates
	SAE Designation & Amp Hr. Rtg		25 MD - 61 Amp. Hr.
	Location		Engine Compartment - Front L. H. Side
Terminal grounded		Negative	
Generator	Make		Delco Remy
	Model		1100705
	Type		Diode Rectified Alternator
	Ratio—Gen. to Cr/s rev.		2, 34
	Gen. cut-in (hot)—engine rpm		5 Amps. Min. @ Idle
Regulator	Make		Delco Remy
	Model		
	Type		Voltage Control
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.6 to 14.4 @ 125°
		Current	None
	Voltage test conditions	Temperature	120° F
Load		Run 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		Aprox. - 160 RPM.
	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 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL 33469 33837

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		438	

ELECTRICAL—IGNITION SYSTEM

Coil	Make	Delco Remy		
	Model	1115216 T-3153-A		
	Amps	Engine stopped	6.0 at 12V(75° Winding Temp)	
Engine idling		1.35		
Distributor	Make	Delco Remy		
	Model	1111029	1111048	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0°-2° @ 650 RPM	
		Intermediate points, deg. @ rpm	15 1/2°-19 1/2° @ 2050 RPM 15°-19° @ 2000 RPM	
		Max deg. @ rpm	28°-32° @ 4000 RPM 24°-28° @ 4250 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		
Cam angle (deg.)		28-32		
Breaker arm tension (oz.)		19-23		
Crankshaft deg. @ rpm.		7 1/2° @ 850 RPM		
Timing	Mark location	Pulley Hub	Vibration Damper	
	Cylinder numbering system (see page 2)	R. H. Bank 2-4-6-8 L. H. Bank 1-3-5-7		
	Firing order (see page 2)	1-8-4-3-6-5-7-2		
Spark Plug	Make and model	AC 45 S	AC 44 S	
	Thread (mm)	14 MM		
	Tightening torque (lb. ft.)	30		
	Gap	.030		
Cable	Conductor type	Resistance		
	Insulation type	Neoprene		
	Spark plug protector	Hypolon		

ELECTRICAL—SUPPRESSION

Locations & type	Resistance Core Spark Plug Leads and Coil Leads. By Pass Condenser At Alternator, Regular and Coil On Radio Equipped Cars.
------------------	--

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (e)

MODEL F-85 V-6 33369

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		1110322
	Cent'figal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	700-900
		Intermediate points deg. @ rpm	16 ° @ 1800
		Max deg. @ rpm	26 ° @ 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
	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)		Left Bank 1-3-5 Right Bank 2-4-6
	Firing order (see page 2)		1-6-5-4-3-2
Spark Plug	Make and model		AC 44 S
	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 Inner Braid
	Spark plug protector		Hypalon Boot

ELECTRICAL—SUPPRESSION

Locations & type	TVRS Cable to Plugs and Coil Static Collectors In Front Wheels Ground Strap - Engine To Dash By-Pass Capacitors On Delcotron, Ignition and Regulators.
------------------	--

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (e)

MODEL 33469

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Ind. Lamp
Temperature indicator—type		Ind. Lamp
Oil pressure indicator—type		Ind. Lamp
Fuel indicator—type		Gage
Other		
	Hi Beam	Ind. Lamp
Ignition switch	Identify positions in order and circuits controlled	<ol style="list-style-type: none"> 1. Accessory and Battery Ignition Off 2. Off - Locked 3. Off - Not Locked 4. Ignition - Battery and Accessory On 5. Ignition - Battery and Solenoid On, Accessory Off
	Provision for illumination	Yes
	Location	Instrument Panel Right of Driver
Main lighting switch	Identify positions and lamps controlled	<ol style="list-style-type: none"> 1. Park, Instrument, Tail and License Lights 2. Headlamps, Instrument, Tail and License Lights
	Rotate Control Full Counter Clockwise	Dims Instrument Lights Courtesy Lights
Other light switches	Locations and lamps controlled	
	Foot Dimmer	On Left Hand Toe Pan Controls Hi and Low Beam
Other switches	Locations and devices controlled	
	W/S Wiper Heater Power Top Electric Antenna	Left of Driver on Instrument Panel Right of Driver on Instrument Panel Right of Driver on Dash Grille Right of Driver on Dash Grille
Windshield wiper	Make	Delco
	Type	Electric Single Speed
	Vacuum booster provision	No
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	5.2 - 5.7

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE **MODEL YEAR** 1965 **DATE ISSUED** 9-24-64 **REVISED** (*)
MODEL 33469 33837

ELECTRICAL—LAMP BULBS

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

Headlamps & arrangement	Dual	2-L4001 and 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		1-97
Oil pressure indicator		1-194
Charge indicator		1-194
Instrument		2-194
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		1-1895 *
Prkg. brake signal		1-1895 *
Luggage compartment		N. A.
Underhood		N. A.
Courtesy		2-90 * Console 3-90
Map		N. A.
Eng. Temp.		1-194
Gas Gauge		1-194
Ash Tray		1-1445
Heater Cont.		1-1895

Console Comp.	1-1895
Tachometer	1-1895

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (e)

MODEL _____ 33469 _____ 33837

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	Same as (E)
Headlamp beam indicator	Same as (E)
Parking lamp	Same as (E)
Tail lamp	Same as 1
Stop lamp	SAE-20
Direction indicator	Same as (E)
License plate lamp	Same as (E)
Instrument lamp	Same as (D) FEED AGA-3 (E)
Ignition lamp	Same as (E)
Back up lamp	SFE - 9 (D)
Dome lamp	SFE - 20 (C)
Clock	Same as (C)
Clock lamp	Same as (E)
Radio	SFE - 9
Glove compartment lamp	SFE - 9 (B)
Heater	SFE - 20
Air Conditioning	AGC - 25
Windshield Wiper	SFE - 20
Electric Antenna	SFE - 20 (A)
Power Windows	Same as (A)
Tail Lite Feed	Same as (B)
Courtesy	Same as (C)
Cigar Lighter	Same as (C)
Parking Brake	Same as (D)

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

	Tail	Lowest	25.4	
		Highest	-	
Height above ground to center of bulb	Stop		25.4	
	Backup		18.5	
	License, rear		20.8	
	Directional	Front		17.8
		Rear		25.4
	Headlamp	Inside		25.8
		Outside*		25.8
	Distance from C/L of car to center of bulb	Tail	Inside	26.3
Outside			-	
Stop			26.3	
Backup			29.0	
License, rear			0.0	
Directional		Front		26.3
		Rear		26.3
Headlamp		Inside		22.7
	Outside*		29.8	

* If single headlamps are used enter here.

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL 33469 33837

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.)	103.4
	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 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL V-6 33369

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.)	
	Thickness	.135 .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	
	In second	1.48	
	In third	1	
	In fourth	-	
	In reverse	2.58	
Synchronous meshing, specify gears	2 & 3	1, 2, 3 & 4	
Shift lever location	Steering Column	Floor	
Lubricant	Capacity (pt.)	2	
	Type recommended	Multi - Purpose	
	SAE viscosity number	Summer	80 or 90
		Winter	80
		Extreme cold	80

AMA Specifications – Passenger Car

MAKE OF CAR	OLDSMOBILE	MODEL YEAR	1965	DATE ISSUED	9-24-64	REVISED (e)
MODEL	33469			33837		

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)		NOT
	Minimum cut-in speed		
	Gear ratio		
Lu- bri- cant	Capacity (pt.) (Overdrive only)		AVAILABLE
	Separate filler (yes, no)		
	Type recommended		
	SAE vis- cosity number	Summer	
		Winter	
Ext. cold			

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Jetaway		
Type describe	2 Speed with Variable Vane Converter		
Method of Selection (Lever, Push Button or other)	Lever - Column Mounted		
Selector Pattern	P	R	N
	Park	Reverse	Neutral
		D	L
		Drive	Low
			Reverse
List gear ratios Selector Pattern and indicate which are used in each selector position	1st.	DRIVE 1.76	LOW 1.76
	2nd.	Direct	REVERSE 1.76
Max. upshift speeds—drive range	60(V6)		65(V8)
Max. kickdown speeds—drive range	55(V6)		60(V8)
Torque converter	Number of elements		
	3		
	Max. ratio at stall		
	2.75 Low	1.95 High (V6)	2.45 Low 1.80 High (V8)
	Type of cooling (air, water)		
	Water		
Lubricant	Capacity—refill (pt.)		19 Dry
	Type recommended		5 Refill
	Type A - Automatic Trans. Fluid Aq-attf. Suffix A		
Special transmission features	Variable Vane Control to Increase Converter Torque in 10 - 60 MPH Range to Provide Added Performance.		

DRIVE UNITS—PROPELLER SHAFT

Number used	One		
Type (exposed, torque tube)	Exposed		
Outer diameter x length* x wall thickness	Manual transmission		3.25 Dia. x 60.00 x .065
	Overdrive transmission		N. A.
	Automatic transmission		3.25 Dia. x 60.00 x .065

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

AMA Specifications – Passenger Car

MAKE OF CAR	OLDSMOBILE	MODEL YEAR	1965	DATE ISSUED	9-24-64	REVISED (*)
MODEL	33469					33837

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)	None
	Lubrication (fitting, prepack)	None
Universal joints	Make	Saginaw Steering and Dana
	Number used	2
	Type (ball and trunnion, 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(V8)	3.23	
	Overdrive transmission	N. A.			
	Automatic transmission	3.08(V6)	2.78(V8)	3.08	
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
	Ring gear	39	40	37

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL 33469 33837

DRIVE UNITS—WHEELS

Type & material		Welded Wheel
Rim (size and flange type)	Std.	14 x 5J
	Opt.	15 x 5K
Attachment	Type (bolt or stud)	Stud
	Circle diameter	4.75"
	Number and size	5 Studs 7/16" Dia.

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.95 x 14 (V6)	7.35 x 14 (V8)
	Type - Nylon, etc.	Rayon	
Rev/mile at 50 mph.		817	797
Inflation press.(cold)	Front	24	
	Rear	24 (S. W. 28)	
Optional tires - size and ply		7.35 x 14 (V6)	7.75 x 14 (V8)

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)		Duo Servo	
Self adjusting (std., opt., N.A.)		Self Adjusting Standard	
Hydraulic system type (single, dual, etc.)		Single	
Power brake make & type (remote, integral, etc.)		Integral	
Effective area (sq. in.)*		155.6	
Gross lining area (sq. in.)**		156.3	
Swept drum area (sq. in.)***		267.8	
Percent brake effectiveness—front		55%	
Drum	Diameter	Front	9 1/2 inches
		Rear	9 1/2 inches
	Type and material		Centrifugal Cast & Composit Option on Rears
Wheel cylinder bore	Front	1 1/16 inches	
	Rear	15/16 inches	
Master cylinder bore		1.0 inches	
Available pedal travel		6.70 Manual 4.00 Power	
Line pressure at 100 lb. pedal load		.710 PSI Manual 725 PSI Power	
Shoe clearance adjustment		.015 inches	

* 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 1965 DATE ISSUED 9-24-64 REVISED (*)

MODEL 33469 33837

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 inches
	Front	9 1/2 inches
	Rear	9 1/2 inches
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 1965 DATE ISSUED 9-24-64 REVISED (e)

MODEL 33469 33837

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 H 3152 F	
		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	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 1965	DATE ISSUED 9-24-64	REVISED (e)
MODEL	33469	33837	

BRAKES—SERVICE (cont.)

Metallic Lining Option

		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:
Air spring type
Compressor data
type
make
drive ratio

*Normal operating pressures
spring rates
leveling data

(Continued)

AMA Specifications – Passenger Cars

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (6)

MODEL 33469 33837

SUSPENSION FRONT (cont.)

Spring	Type	Coil		
	Material	SAE 9260		
	Size (coil design height & I.D.; bar length x dia.)	11.4" Design Height 3.60 I.D. 147" Long .600 Dia. 147" Long .631 Dia.		
	Spring rate (lb. per in.)	250(V6)	305(V8)	305
	Rate at wheel (lb. per in.)	77(V6)	95(V8)	95
	Design load (lb. @ design height)	1660 @ 11.4(V6)	1860 @ 11.4(V8)	1835 @ 11.4
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diameter	SAE 1070(V6)	.812 Dia	.875 Dia(V8) .875

STEERING

Manual (std., opt., NA)		Standard		
Power (std., opt., NA)		Optional		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt Type		
	(std., opt., NA)	Optional		
Wheel diameter	Manual	16"		
	Power	16"		
Turning diameter	Outside front	Wall to wall (l. & r.)	44.1	
		Curb to curb (l. & r.)	41.0	
	Inside rear	Wall to wall (l. & r.)	24.8	
		Curb to curb (l. & r.)	25.5	
Outside wheel angle with inside wheel at 20°		18.6 °		
Manual	Gear	Type	Ball Nut	
		Make	Saginaw Steering	
		Ratios	Gear	24:1
			Overall	28.3:1
	No. wheel turns	5.56 Total		
Power	Type (coaxial, linkage, etc.)	Gear Integral		
		Saginaw Steering		
	Gear	Type	Gear Integral	
		Ratios	Gear	17.5:1
			Overall	20.7:1
	Pump driven by	Belt From Crank		
	Number wheel turns	4.06 Total		
Linkage	Type	Forged		
	Location (front or rear of wheels, other)	Front		
	Drag link (trans. or longit.)	Transverse		
	Tie rods (one or two)	2		

(Continued)

AMA Specifications – Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1965 DATE ISSUED 9-24-64 REVISED (•)

MODEL _____ 33469 _____ 33837

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 -1/2° 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. 126" - .560 Dia. (V6) 114" - .560 Dia. (V8)		
	Spring rate (lb. per in.)		106(V6)	120(V8)	
	Rate at wheel (lb. per in.)		95(V6)	109(V8)	
	Design load (lb. at design height)		8.50 @ 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)		None		
	Material		None		
Track bar type			None		

AMA Specifications – Passenger Car

MAKE OF CAR	OLDSMOBILE	MODEL YEAR	1965
		DATE ISSUED	9-24-64
		REVISED	(*)
MODEL	33469		33837

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front	Front
	Rear doors	Front	N. A.
Type of finish (lacquer, enamel, other)		Lacquer	
Hood counterbalanced (yes, no)		Yes	
Hood release control (internal, external)		External	
Vehicle (Serial) No. Location		Left Front Pillar Post	
Engine No. Location		None	
Theft protection - type		Key Type Starting	
Vent window control method (crank, friction pivot)	Front	Friction Pivot	
	Rear	None	
Seat cushion type	Front	Zig Zag	
	Rear	Zig Zag	
	3rd seat	-	
Seat back type	Front	Zig Zag	
	Rear	Zig Zag	
	3rd seat	-	
Windshield glass type (i.e., single curved - laminated plate)		Compound Curve	
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved One Piece	
Side glass type (i.e., curved - tempered plate)		Curved	
Side glass exposed surface area		1460.0	1583.0
Windshield glass exposed surface area		1164.7	1164.7
Backlight glass exposed surface area		1102.0	1088.3
Total glass exposed surface area		3726.7	3836.0

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

Power windows	Side Windows	Optional on Deluxe and Cutlass
	Vent Windows	N. A.
	Backlight or tailgate	Optional
Power seats (specify type as well as availability)		4 Way Electric Bench - Optional 4 Way Electric Bucket L. H. only - Optional
Reclining front seat back		N. A.
Front seat headrest		N. A.
Radios (specify type as well as availability)		Deluxe Radio Optional
Rear seat speaker		Optional
Power Antenna		Optional
Clock		Optional
Air Conditioner (specify type and availability)		Optional (Frigidaire)

INDEX

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