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	CAR NAME	
OLDSMOBILE	F-85 & CUTLASS	
MAILING ADDRESS	MODEL YEAR	ISSUED:
LANSING, MICHIGAN	1966	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

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	L-6 Std.	L-6 Dlx.	V-8 Std.	V-8 Dlx.	Cutlass
Club Coupe		33307	-----	33407	-----	33807
4 Door Sedan		33369	33569	33469	33669	33869
4 Door Hardtop Sedan		-----	33539	-----	33639	33839
Station Wagon (2 Seat)		33335	33535	33435	33635	-----
Hardtop Coupe		-----	33517	-----	33617	33817
Convertible		-----	-----	-----	-----	33867

Vista Cruiser Station Wagons -- See Separate AMA

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (e)

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	33469	33869
Wheelbase (L101)			115.0	115.0
Track	Front (W101)		58.0	58.0
	Rear (W102)		58.0	58.0
Maximum Overall Dimensions	Length (L103)		204.2	204.2
	Width (W103)		75.4	75.4
	Height (H101)		54.5	53.6
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Std.*	Std.*
	Manual - 4 speed	15	Opt.	Opt.
	Overdrive	15	N.A.	N.A.
	Automatic	16	Opt.	Opt.
Axle ratio	Manual - 3 speed	17	3.08	3.23
	Manual - 4 speed	17	3.08	3.23
	Overdrive	17	N.A.	N.A.
	Automatic	17	2.78	3.08
Tire size		18	7.35 x 14	7.35 x 14
Engine	Type, no. cyl., valve arr.	3	90° OHV V-8	
	Fuel system (Carb., other)	10	CARBURETOR	
	Bore and stroke	3	3.9375 x 3.385	
	Piston displ., cu. in.	3	330	
	Std. compression ratio	3	9.0:1	10.25:1
	Max. bhp at engine rpm	3	250 @ 4800	320 @ 5200
	Max. torque at rpm	3	335 @ 2800	360 @ 3600

* Optional: 3 Speed Manual Heavy Duty (with Floor Shift Std.)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•) _____

GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	F-85 L-6 33369
Wheelbase (L101)			115.0
Track	Front (W101)		58.0
	Rear (W102)		58.0
Maximum Overall Dimensions	Length (L103)		204.2
	Width (W103)		75.4
	Height (H101)		54.5
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Std.
	Manual - 4 speed	15	Opt.
	Overdrive	15	N.A.
	Automatic	16	Opt.
Axle ratio	Manual - 3 speed	17	3.08
	Manual - 4 speed	17	3.08
	Overdrive	17	N.A.
	Automatic	17	2.78
Tire size		18	6.95 x 14
Engine	Type, no. cyl., valve arr.	3	In-Line 6 OHV
	Fuel system (Carb., other)	10	CARBURETOR
	Bore and stroke	3	3.875 x 3.53
	Piston displ., cu. in.	3	250
	Std. compression ratio	3	8.5:1
	Max. bhp at engine rpm	3	155 @ 4200
	Max. torque at rpm	3	240 @ 2000

AMA Specifications—Passenger Car

Page 2

\KE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (•)

GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	33469	33869
FRONT COMPARTMENT			
Shoulder room	W3	58.8	58.8
Hip room	W5	59.9	59.9
Max. eff. leg room - accelerator	L34	41.3	41.5
Effective head room	H61	38.1	38.1
H Point to Heel point	H30	8.7	8.2
REAR COMPARTMENT			
Shoulder room	W4	58.8	58.8
Hip room	W6	59.9	59.9
Minimum effective leg room	L51	36.0	35.9
Effective head room	H63	37.2	37.2
LUGGAGE COMPARTMENT			
Usable luggage capacity	V1	20.1	
Liftover height	H195	30.1	
Position of spare tire storage			
Method of holding lid open		Counter Balance	
STATION WAGON—THIRD SEAT			
Hip room	W86		
Effective leg room	L86	SEE VISTA CRUISER AMA'S	
Effective head room	H86		
Seat facing direction			

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	33435	33800
Minimum distance between wheel houses at floor level	W201	44.7	N.A.
Rear end opening width at belt	W204	52.6	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	N.A.
Maximum height of rear opening - tail and lift gates open	H202	28.1	N.A.
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	85.2	N.A.

AMA Specifications—Passenger Car

Page 3

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL		33469	33869

ENGINE—GENERAL

Type, no. cyls., valve arr.		90° OHV V-8	
Bore and stroke (nominal)		3.9385 x 3.385	
Piston displacement, cu. in.		330	
Bore spacing (C/L to C/L)		4.625	
No. system (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 horsepower $\frac{Dia^2 \times No.Cyl.}{2.5}$		49.6	
Publishing max. bhp* @ eng. RPM		250 @ 4800	320 @ 5200
Publishing max. torque* (lb. ft. @ RPM)		335 @ 2800	360 @ 3600
Recommended fuel regular • premium		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 Plat, Steel Strut
Weight (piston only) oz.			20.670
Clearance (limits)	Top land		.0275-.0325
	Skirt	Top	.00075-.00225
		Bottom	.00075-.00125
Ring groove depth	No. 1 ring		.2035-.2105
	No. 2 ring		.2035-.2105
	No. 3 ring		.1955-.2025
	No. 4 ring		None

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

AMA Specifications—Passenger Car

Page 3 A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•)

MODEL F-85 L-6 33369

ENGINE—GENERAL

Type, no. cyls., valve arr.		L-6 OHV In Line
Bore and stroke (nominal)		3.875 x 3.53
Piston displacement, cu. in.		250
Bore spacing (C/L to C/L)		4.40
No. system (front to rear)	L. Bank	1-2-3-4-5-6
	R. Bank	(In-line)
Firing order		1-5-3-6-2-4
Compres. ratio (nominal)		8.5:1
Cylinder Head Material		Cast Iron
Cylinder Block Material		Cast Iron
Cylinder Sleeve-Wet, dry, none		None
Number of mounting points	Front	Two
	Rear	Once
Engine installation angle		3°54'
Taxable horsepower $\frac{Dia^2 \times No.Cyl.}{2.5}$		36.04
Publishing max. bhp* @ eng. RPM		155 @ 4200
Publishing max. torque* (lb. ft. @ RPM)		240 @ 2000
Recommended fuel regular • premium		Regular
Idle speed(spec. neutral or drive)	Manual	500 in neutral
	Automatic	500 in drive

ENGINE—PISTONS

Material			Cast Aluminum Alloy
Description and finish			Flat, notched head, slipper skirt
Weight (piston only) oz.			20.80
Clearance (limits)	Top land		.0345-.0435
	Skirt	Top	.0005-.0011**
		Bottom	
Ring groove depth	No. 1 ring		.2153-.2218
	No. 2 ring		.2153-.2218
	No. 3 ring		.2093-.2158
	No. 4 ring		None

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

** Measured at 2.44 from top of piston

AMA Specifications—Passenger Car

Page 4

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•) _____

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
33300 & 33500	250	1 Bbl.	8.50	155 @ 4200	240 @ 2000	Fully Synchronized (3 Speed)	3.08:1
						(4 Speed)	3.08:1
						Jetaway	2.78:1
33400 & 33600	330	2 Bbl.	9.00	250 @ 4800	335 @ 2800	Fully Synchronized (3 Speed)	3.08:1
						(4 Speed)	3.08:1
						Jetaway	2.78:1
33800	330	4 Bbl.	10.25	320 @ 5200	335 @ 3600	Fully Synchronized (3 Speed)	3.23:1
						(4 Speed)	3.23:1
						Jetaway	3.08:1
	330	4 Bbl.	9.00	310 @ 5200	360 @ 3600		
4-4-2 Option 33407 33617 33807 33817 33867	400	4 Bbl.	10.50	350 @ 5000	440 @ 3600	Fully Synchronized (3 Speed)	3.55:1
						(4 Speed)	3.55:1
						Jetaway	3.23:1

AMA Specifications—Passenger Car

Page 5

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*)

MODEL		33469	33869

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, 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, 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 Babbit Steel Backed
	Overall length	.821-.831
	Clearance (limits)	.0009-.0030
	End play	(.004 to .009 Preferred) .002-.013 2 Rods per Crankpin

AMA Specifications—Passenger Car

Page 5A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•) _____

MODEL F-85 L-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, coating, etc. Upper	Cast Alloy Iron, Chrome Plate
	Description - material, coating, etc. Lower	Cast Alloy Iron; Wear Resistant Coating
	Width	.0620-.06251
	Gap	.010-.020
Oil	Description - material, coating, etc.	Mult-piece (2 rails and one spacer expander) Spacer expander - steel Rails - Stainless steel chrome plated O.D.
	Width	.1840-.1880 (assembled)
	Gap	.015-.0251
Expanders		In oil ring assembly

ENGINE—PISTON PINS

Material			Chromium Steel
Length			2.990-3.010
Diameter			.9270-.9273
Type	Locked in rod, in piston, floating, etc.		Locked in rod
	Bushing	In rod or piston	None
		Material	--
Clearance	In piston		.00015-.00025
	In rod		None
Direction & amount offset in piston			Major thrust side .060

ENGINE—CONNECTING RODS

Material		Drop Forged Steel
Weight (oz.)		12.50
Length (center to center)		5.699-5.701
Bearing	Material & Type	Copper lead alloy or sintered Copper nickel backed babbit on steel
	Overall length	.807
	Clearance (limits)	.0007-.0027
	End play	.009-.013

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL	33469	33869

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
Type of Drive	Gear or chain		Chain
	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 an flywheel, damper, other		Pulley Hub or Vibration Damper

(Cantinued)

AMA Specifications—Passenger Car

Page 6 A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL F-85 L-6 33369

ENGINE—CRANKSHAFT

Material			Cast Nodular Iron
Vibration damper type			Rubber mounted inertia
End thrust taken by bearing (No.)			7
Crankshaft end play			.002-.006
Main bearing	Material & type		Copper lead alloy or sintered copper nickel backed babbit on steel
	Clearance		.0003-.0029
	Journal dia. and bearing overall length	No. 1	2.3004 x .752
		No. 2	2.3004 x .752
		No. 3	2.3004 x .752
		No. 4	2.3004 x .752
		No. 5	2.3004 x .752
		No. 6	2.3004 x .752
		No. 7	2.3004 x .752
	Dir. & amt. cyl. offset		None
Crankpin journal diameter			1.999-2.000

ENGINE—CAMSHAFT

Location			Above and to right of crankshaft
Material			Cast alloy iron
Bearings	Material		Steel backed babbitt
	Number		4
Type of Drive	Gear or chain		Gear
	Crankshaft gear or sprocket material		Steel
	Camshaft gear or sprocket material		Bakelite & Fabric with steel hub
	Timing chain	No. of links	None
		Width	None
		Pitch	None

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.75:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero
	Exhaust	Zero
Timing marks on flywheel, damper, other		Torsional Damper

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*)

MODEL			33469	33869
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		45° (seat) 46° (face)	
	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		45° (seat) 46° (face)	
	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

Page 8

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL	33469	33869

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
Oil grade recommended (SAE viscosity and temperature range)	Above 32° F - SAE 10W30, SAE 20W Below 32° 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)		1.995 x .048	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 33407, 33469, 33617, 33639, 33669, 33807, 33817, 33839, 33867, 33869.

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

AMA Specifications—Passenger Car

Page 8A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL F-85 L-6 33369

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Gear
Normal oil pressure (lb. @ engine rpm)	30-45 PSI @ 1500 RPM
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.)	4.0
Oil grade recommended (SAE viscosity and temperature range)	Above 32°F - SAE 20W, SAE 20, SAE 10W30 Below 32°F - SAE 10W, SAE 10W30 Below 0°F - SAE 5W, SAE 5W10
Engine Service Requirement (MM, MS, etc.)	MS or DG

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single
Muffler No. & type (reverse flow, straight thru, separate resonator)		One, reverse flow
Exhaust pipe dia. (O.D., wall thickness)	Branch	
	Main	2.0 x .057-.071
Tail pipe diameter (O.D. & wall thickness)		1.85 x .062-.076

ENGINE— CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Ventilates to induction system
		Optional	
Control Unit	Make and model		
	Location		Rear rocker cover
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold vacuum
	Control method (variable orifice, fixed orifice, other)		Variable
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake Manifold
	Air inlet (breather cap, carburetor air cleaner, other)		Breather cap
	Flame arrestor (screen, check valve, other)		Check valve

AMA Specifications—Passenger Car

Page 9

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•) _____

MODEL	F-85 33469	Cutlass 33869

ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			Air Injection
Air Injection Pump	Type		Vane
	Displacement		19.3 Cu. In.
	Drive ratio		1.25 to 1
	Drive type		Belt
	Relief valve (type)		Spring Loaded Poppet
	Filter (describe)		Polyurethane
Air Injection System	Air distribution (head, manifold, etc.)		Air Manifold
	Point of entry		Cylinder Head Exhaust Port
	Injection tube I.D.		.257
	Check valve type		Diaphragm
	Backfire protection (type)		Manifold Air Bleed Valve
Carburetor	Make		
	Model		
	Barrel size		
	Idle speed	Drive	600
		Neutral	
Distributor	Aux. Adv. Systems (type)		
	Make		
	Model		
	Cent'fgal adv. in crank degrees @ eng. rpm.	Start (rpm)	
		Intermed. points deg. @ rpm	
		Max. deg.@rpm.	
	Vacuum adv. in. crank degrees@ eng. rpm	Start (in Hg) Intermed. points deg.@ in. Hg Max. deg.@ in.	
	Vacuum Source		Ported
Timing - Crank degrees @ rpm			
Cooling System (describe changes)			None
Exhaust System (describe changes)			None

Carburetor - Distributor and timing same as standard car.

AMA Specifications—Passenger Car

Page 10

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (•)

MODEL	33469	33869

ENGINE—FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Refill 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 cleaner type	Standard	Paper
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
33400 & 33600 Std.	330	Fully Synchronized & Jetaway	Rochester	2 GC	1	Primary 1 11/16
33400 & 33600 Opt. 33800 Std.	330	Fully Synchronized & Jetaway	Rochester	4 MV	1	Primary 1 3/8 Secondary 2 1/4

AMA Specifications—Passenger Car

Page 10 A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL F-85 L-6 33369

ENGINE—FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.			Carburetor
Fuel Tank	Refill capacity (gals.)		20 (24 on Station Wagons) approximately
	Filler location		Behind hinged rear license plate
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower right front of engine
	Pressure range		3.50-4.50 PSI
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		Fine mesh plastic strainer in gasoline tank
	Locations		and sintered bronze filter in carburetor inlet
Carburetor	Choke type		Automatic
	Intake manifold heat control (exhaust or water)		
	Air cleaner type	Standard	Oil-wetted polyurethane
		Optional	None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
33300 & 33500	250	Fully Synchro. (3 speed) (4 speed) Jetaway	Rochester	7026027 7026028	One; Single Barrel	1.56

AMA Specifications—Passenger Car

Page 11

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL	33469	33869

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 or alternator			Same belt
	Water Pump			Same belt
	Power Steering			36° x 59.5 x .380
	Air Conditioning			36° x 58.5 x .380

* Drive Belt Dimensians	A	B	C	D	E	F	G	H	I	J	K
Angle of V											
Naminal length (SAE)											
Width											

AMA Specifications—Passenger Car

Page 11A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL F-85 L-6 33369

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			15 ± 1 PSI
Circulation thermostat	Type (choke, bypass)		Choke
	Starts to open at (°F)		177°-183°F
Water pump	Type (centrifugal, other)		Centrifugal
	GPM @ 1000 pump rpm		60 @ 4400
	Number of pumps		One
	Drive (V-belt, ather)		V-belt
	Bearing type		Permanently lubricated double row ball
By-pass recirculation type (internal, external)			Internal
Radiator core type (cellular, tube and fin, other)			Tube on Center
Cooling system capacity	With heater (qt.)		12
	Without heater (qt.)		11
	Opt. equipment-specify (qt.)		12
Water jackets full length of cylinder (yes, no)			Yes
Water all around cylinder (yes, no)			Yes
Radiator hose	Lower	Number and type (molded, straight))	One, molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	One, molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing		4 staggered
	Diameter		17.62
	Ratio-fan to crankshaft rev.		.949:1
	Fan cutout type		None
	Bearing type		Double row ball
*Drive belts (indicate belt used by letter)	Fan		A
	Generator ar alternator		A
	Water Pump		A
	Power Steering		B
	Air Conditioning		C

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	to	42°								
Nominal length (SAE)	39.00	49.50	54.75								
Width	.380	.380	.380								

Form Rev. 4-65

AMA Specifications—Passenger Car

Page 12

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL			33469	33869

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1983506	
	Voltage Rtg. & Total Plates		12V - 66 Plates	
	SAE Designation & Amp Hr. Rtg.		25 MD - 61 AMP. HR	
	Location		Engine Compartment - Front Left Side	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco Remy	
	Model		1100705	
	Type and rating		Self Rectifying AC	
	Output at engine idle (neutral)			
	Ratio–Gen. to Cr/s rev.		2.33	
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		150 RPM	
	Test conditions		80°F	
	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 transmission must be in park or neutral to start.	

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL F-85 L-6 33369

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1983504
	Voltage Rtg. & Total Plates		12 Volts - 54 plates
	SAE Designation & Amp Hr. Rtg.		44 amp. hr. @ 20 Hr.-rate
	Location		Right front engine compartment
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100705
	Type and rating		Diode rectified 9-37 amps
	Output at engine idle (neutral)		
	Ratio—Gen. to Cr/s rev.		2.46:1
Regulator	Make		Delco Remy
	Model		1119515
	Type		Vibrator
	Cutout relay	Closing voltage @ generator rpm	
		Reverse current to open	
	Regulated	Voltage	13.8-14.8 @ 85°F
		Current	
	Voltage test conditions	Temperoture	Operating
		Load	3-8 Amperes
		Other	None

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco-Remy
	Model		1107374
	Rotation (drive end view)		Clockwise
	Engine cranking speed		
	Test conditions		Engine at operating temperature
	No lood test	Amps	49-76
		Volts	10-6
		RPM (min)	6200-9400
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		3 sp. & 4 sp. - Place gearshift lever in neutral & depress clutch to floor Jetaway - Place control lever in N or P position Initial Start - press accelerator pedal to floor once to set automatic choke, then release. Turn ignition to START - release as soon as engine starts. (Continued)

AMA Specifications—Passenger Car

Page 13

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL _____ 33469 33869

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type			Solenoid with Over-running Clutch
	Pinion meshes (front, rear)			Front
	Number of teeth	Pinion		9
		Flywheel	Manual	166
			Auto.	166
	Flywheel tooth face width		Manual	.438
			Auto.	.438

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.			N.A.
	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 RMP
		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
Timing	Crankshaft deg. @ rpm.			7 1/2° @ 850
	Mark location			Pulley Hub Vibration Damper
Spark Plug	Make			AC
	Model			AC45S AC44S
	Thread (mm)			14mm
	Tightening torque (lb. ft.)			30
	Gap			.030
Cable	Conductor type			Resistance
	Insulation type			Neoprene
	Spark plug protector			Hypalon

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL F-85 L-6 33369

ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type			Positive shift solenoid
	Pinion meshes (front, rear)			Rear
	Number of teeth	Pinion		9
		Flywheel	Manual	153
			Auto.	153
	Flywheel tooth face width		Manual	.4010-.4130
			Auto.	.4010-.4130

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		N.A.
	Make		Delco Remy
	Model		1115208
	Amps	Engine stopped	4.0
		Engine idling	1-8
Distributor	Make		Delco Remy
	Model		1110351
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900
		Intermediate points deg. @ rpm.	
		Max. deg. @ rpm.	30° @ 3200
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6
		Intermediate points, deg. @ in. Hg.	
		Max. deg. in. Hg.	21° @ 14.5
	Breaker gap (in.)		
	Cam angle (deg.)		31°-36°
	Breaker arm tension (oz.)		19-23 oz.
Timing	Crankshaft deg. @ rpm.		6° ± 1° @ 500
	Mark location		Torsional Damper
Spark Plug	Make		AC Spark Plug
	Model		AC-46N
	Thread (mm)		14
	Tightening torque (lb. ft.)		25
	Gap		.033-.038
Cable	Conductor type		Linen core impregnated with electrical conducting mtl.
	Insulation type		Rubber with neoprene jacket
	Spark plug protector		Neoprene

AMA Specifications—Passenger Car

Page 14

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL 33469 33869

ELECTRICAL—SUPPRESSION

Locations & type	Resistance core spark plug leads and coil leads, by pass condenser at alternator, regulator and coil on radio equipped cars.

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speedometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Indicator Lamp
Temperature indicator—type		Indicator Lamp
Oil pressure indicator—type		Indicator Lamp
Fuel indicator—type		Gage
Other Hi Beam		Indicator Lamp
Windshield wiper	Make	Delco Appliance
	Type—Standard	2 Speed Electric
	Type—Optional	
	Vacuum booster provision	No
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	5.2 - 5.7

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg & Beck, Single Plate
Type pressure plate springs		Flat
Total spring load (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

AMA Specifications—Passenger Car

Page 14A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL F-85 L-6 33369

ELECTRICAL—SUPPRESSION

Locations & type	Non-metallic High Ignition Cables

ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Tell-tale
Temperature indicator—type		Tell-tale
Oil pressure indicator—type		Tell-tale
Fuel indicator—type		Electric gage
Other		None
Windshield wiper	Make	Delco
	Type—Standard	Electric, two-speed
	Type—Optional	None
	Vacuum booster provision	None
	Washer provision	Push button-Standard
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	8.00-11.0 @ 12.5 Volts

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		Borg & Beck, Single Plate
Type pressure plate springs		Flat
Total spring load (lb.)		1750
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
	Engagement cushioning method	Flat Springs
Releose bearing	Type & method of lubrication	Ball Permanent
Torsional damping	Methods: springs, friction material	Coil Springs - Steel

AMA Specifications—Passenger Car

Page 15

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL	33469	33869

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	Optional

DRIVE UNITS— MANUAL TRANSMISSION

				Opt.
Number of forward speeds			3	4
Transmission ratios	In first		2.54:1	2.52:1
	In second		1.50:1	1.88:1
	In third		1.00	1.46:1
	In fourth		--	1.00:1
	In reverse		2.63:1	2.60:1
Synchronous meshing, specify gears			1-2-3	1-2-3-4
Shift lever location			Steering Column	Floor
Lubricant	Capacity (pt.)		2	2.25
	Type recommended		Multipurpose	Multipurpose
	SAE viscosity number	Summer	80 or 90	80 or 90
		Winter	80	80
		Extreme cold	80	80

DRIVE UNITS— MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Type (planetary or other)			
Manual lockout (yes, no)			
Downshift acelerator control (yes, no)			
Minimum cut-in speed			NOT
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		AVAILABLE
	Separate filler (yes, no)		
	Type recommended		
	SAE viscasity number	Summer	
		Winter	
		Extreme cold	

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*)

MODEL F-85 L-6 33369

DRIVE UNITS—TRANSMISSIONS

Manual 3-speed (std. or opt.)	Standard
Manual 4-speed (std. or opt.)	Optional
Manual with overdrive (std. or opt.)	N.A.
Automatic (std. or opt.)	Optional

DRIVE UNITS— MANUAL TRANSMISSION

				Opt.
Number of forward speeds			3	4
Transmission ratios	In first		2.85:1	2.52:1
	In second		1.68:1	1.88:1
	In third		1.00:1	1.46:1
	In fourth		--	1.00:1
	In reverse		2.95:1	2.60:1
Synchronous meshing, specify gears			1-2-3	1-2-3-4
Shift lever location			Steering Column	Floor
Lubricant	Capacity (pt.)		2	2.25
	Type recommended		Multipurpose	Multipurpose
	SAE viscosity number	Summer	80 or 90	80 or 90
		Winter	80	80
		Extreme cold	80	80

DRIVE UNITS— MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Type (planetary or other)			
Manual lockout (yes, no)			
Downshift acelerator control (yes, no)			
Minimum cut-in speed			NOT
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		AVAILABLE
	Separate filler (yes, no)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
		Extreme cold	

AMA Specifications—Passenger Car

Page 16

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (e)

MODEL	33469	33869

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 Park / R Reverse / N Neutral / D Drive / L Low	
List gear ratios Selector Pattern and indicate which are used in each selector position		First — Drive 1.76, Low 1.76, Reverse 1.76 Second — Direct	
Max. upshift speeds—drive range		60 (L6)	65 (V8)
Max. kickdown speeds—drive range		55 (L6)	60 (V8)
Torque convertor	Number of elements	3	
	Max. ratio at stall	2.75 Low 1.95 High (L6)	2.45 Low 1.80 High (V8)
	Type of cooling (air, liquid)	Water	
Lubricant	Capacity—refill (pt.)	19 Dry	5 Refill
	Type recommended	Type A Automatic trans. fluid AQ-ATF-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 3-speed transmission	3.25 Dia. x 60.00 x .065	
	Manual 4-speed transmission	3.25 Dia. x 60.00 x .065	
	Overdrive transmission	N.A.	
	Automatic transmission	3.25 Dia. x 60.00 x .065	

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

(Continued)

AMA Specifications—Passenger Car

Page 17

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•)

MODEL			33469	33869

DRIVE UNITS—PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None	
	Lubrication (fitting, prepack)		None	
Universal joints	Make		Saginaw Steering Gear	
	Number used		2	
	Type (ball and trunnion, cross, other)		Cross	
	Bearing	Type (plain, anti-friction)	Anti-Friction	
		Lubric. (fitting, prepack)	Prepack	
Drive taken through (torque tube or arms, springs)			Arms	
Torque taken through (torque tube or arms, springs)			Arms	

DRIVE UNITS—REAR AXLE

Description			Spicer Type - hypoid-semi floating	
Limited Slip differential, type			Cone clutch	
Drive Pinion Offset			1.50	
No. of differential pinions			2	
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 4 for axle ratio usage)

Axle ratio		2.78:1	3.08:1		3.23:1
No. of teeth	Pinion	14	13	12	13
	Ring gear	39	40	37	42

AMA Specifications—Passenger Car

Page 18

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (•)

MODEL	33469	33869

DRIVE UNITS—WHEELS

Type & material			Welded Wheel	
Rim (size and flange type)		Std.	14x5J	
		Opt.	15x5K	
Attachment	Type (bolt or stud)		Stud	
	Circle diameter		4.75"	
	Number and size		5 Stud 7/16" Dia.	

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	6.95 x 14 (L6)	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 (L6)	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.) ***			267.3
Percent brake effectiveness—front			55%
Drum or Rotar	Diameter	Front	9 1/2 in.
		Rear	9 1/2 in.
	Type and material		Centrifugal cast & composit option on rears
	Rotor (vented or solid)		
	No. pistons per caliper		
Wheel cylinder bore	Front		1 1/16 in.
	Rear		15/16 in.
Master cylinder bore			1.0 in.
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 in.

* Excludes rivet holes, grooves, chamfers, etc.

(Continued)

** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes:
Widest lining contact width for each brake x its drum circumference.

AMA Specifications—Passenger Car

Page 18 A

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

MODEL	33469	33869

DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

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

BRAKES—SERVICE

Heavy Duty Metallic Lining Option

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 or Rotor	Diameter	Front	9 1/2 in.	
		Rear	9 1/2 in.	
	Type and material		Centrifugal Cast	
	Rotor (vented or solid)			
	No. pistons per caliper			
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.

(Continued)

** Includes rivet holes, grooves, chamfers, etc.

*** Total swept area for four brakes:
Widest lining contact width for each brake x its drum circumference.

AMA Specifications—Passenger Car

Page 19

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*)

MODEL					33469	33869

BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc					
	Bonded or riveted					Riveted
	Front Wheel	Material				Marshall H 3144
		Size (length x width x thickness)	Prim. or out-board			7.48 x 2.50 x .166
			Second. or in-board			7.48 x 2.00 x .166
		Segments per shae				One
	Rear Wheel	Material				Marshall H 3152 F
		Size (length x width x thickness)	Prim. or out-board			9.88 x 2.50 x .231
			Second. or in-board			9.88 x 2.00 x .231
		Segments per shae				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
	Drum diameter		
	Lining size (length x width x thickness)		SEPARATE

FRAME

Type and description (Separate frame, unitized frome, partially - unitized frame)	"C" section with torque boxes

STEERING

Manual (std., opt., NA)				Standard
Power (std., opt., NA)				Optional
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt Away 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 Gear
		Ratios	Gear	24:1
			Overall	28.3:1
	No. wheel turns			5.56 Total

(Continued)

AMA Specifications—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (•) _____

MODEL	33469	33869

BRAKES—SERVICE (cont.)

	Drum or Disc				Metallic Lining Option
	Bonded or riveted				Welded
Brake lining	Front Wheel	Material			Delco Moraine 81
		Size (length x width x thickness)	Prim. or outboard		6 segments 1.64 x 1.25 x .175
			Second. or inboard		6 segments 1.64 x 1.00 x .175
		Segments per shoe			6
	Rear Wheel	Material			Delco Moraine 81
		Size (length x width x thickness)	Prim. or outboard		10 segments 1.64 x 1.25 x .285
			Second. or inboard		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

Type and description (Separate frame, unitized frame, partially - unitized frame)	

STEERING

Manual (std., opt., NA)				
Power (std., opt., NA)				
Adjustable steering wheel (tilt, swing, other)		Type and description		
		(std., opt., NA)		
Wheel diameter		Manual		
		Power		
Turning diameter	Outside front	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Outside wheel angle with inside wheel at 20°				
Manual	Gear	Type		
		Make		
		Ratios	Gear	
			Overall	
	No. wheel turns			

(Continued)

AMA Specifications—Passenger Car

Page 20

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL 33469 33869

STEERING (cont.)

Power	Type (coaxial, linkage, etc.)			Gear integral
	Make			Saginaw Steering Gear
	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)			Two
Steering Axis	Inclination at camber (deg.)			8° at +1° camber
	Bearings (type)	Upper		Ball joint
		Lower		Ball joint
		Thrust		Ball joint
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)			Range -1/2° to -2°
	Camber (deg.)			Range -1/2° to +1/2°
	Toe-in (outside track 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

AMA Specifications—Passenger Car

Page 21

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED REVISED (*)

MODEL	33469	33869

SUSPENSION—GENERAL

(See Supplemental page 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 in.
Other special features			None

SUSPENSION—FRONT

Type and description			Independent coil spring
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 (L6) 305 (V8) 305
	Rate at wheel (lb. per in.)		77 (L6) 95 (V8) 95
Stabilizer	Type (link, linkless, frameless)		Link
	Material & bar diameter		SAE 1070 (L6) .812 dia. .875 dia. (V8)

SUSPENSION—REAR

Type and description			4 link coil spring
Drive and torque taken through			Arms
Spring	Type		Coil
	Material		SAE 9260
	Size (length x width, coil design height & I.D.; bar length & dia.		8.52 design height - 5.50 I.D. 126"-.560 dia. (L6) 114"-.560 dia. (V8)
	Spring rate (lb. per in.)		106 (L6) 120 (V8)
	Rate at wheel (lb. per in.)		95 (L6) 109 (V8)
	Mounting insulation type		Rubber
	If leaf	No. of leaves	None
		Shackle (comp. or tens)	None
Stabilizer	Type (link, linkless, frameless)		None
	Material		None
Track bar type			None

AMA Specifications—Passenger Car

Page 22

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*)

MODEL	33469	33869

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Indent. 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	None
Seat back type	Front	Zig Zag
	Rear	Zig Zag
	3rd seat	None
Windshield glass type (i.e., single curved - laminated plate)		Compound Curve
Side glass type (i.e., curved - tempered plate)		Curved
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Compound Curve
Windshield glass exposed surface area		1164.7
Side glass exposed surface area		1435.6
Backlight glass exposed surface area		1123.8
Total glass exposed surface area		3724.1

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	26.06
		Lowest	26.00
	Tail	Highest	
		Lowest	
Distance from C/L of car to center of bulb	Headlamp	Inside	20.83
		Outside *	28.05
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

AMA Specifications—Passenger Car

Page 23

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

CONVENIENCE EQUIPMENT

(Indicate whether standard, optional or NA on each series)

		MODEL 33469	MODEL 33869
Power windows	Side Windows	N.A.	Optional on Deluxe & 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.	Optional ** (Pass. only)
Front seat headrest		Optional (Non Strato)	Optional ** (Strato Type)
Radios (specify type as well as availability)		Deluxe Radio Optional	
Rear seat speaker		Optional (except 33867)	
Power Antenna		Optional	
Clock		Optional	
Air Conditioner (specify type and availability)		Optional (Frigidaire)	
Speed warning device		N.A.	
Speed control device		Optional	
Ignition lock lamp		N.A.	
Back up lamp		Standard	
Dome lamp		Standard	
Glove compartment lamp		Optional	
Prkg. brake signal lamp		Optional	
Luggage compartment lamp		N.A.	
Underhood lamp		N.A.	
Courtesy lamp		Optional (Standard on 33867)	
Map lamp		N.A.	
Auto. trans. quad. lamp		N.A.	
Emergency flasher lamp		N.A.	
Cornering light lamp		N.A.	

* Available on all F-85's except Cutlass Coupes and Convertible

** Available only on Cutlass Coupes and Convertible

AMA Specifications—Passenger Car

Page 24

MAKE OF CAR OLDSMOBILE MODEL YEAR 1966 DATE ISSUED _____ REVISED (*) _____

WEIGHTS

Model	CURB WEIGHT - POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING WEIGHT
3307			3096					2951
3335			3391					3246
3369			3146					3001
3407			3312					3153
3435			3590					3431
3469			3345					3137
3517			3135					2990
3535			3418					3273
3539			3222					3077
3569			3168					3023
3617			3355					3196
3635			3612					3453
3639			3431					3272
3669			3369					3210
3807			3378					3219
3817			3402					3243
3839			3455					3296
3867			3508					3349
3869			3399					3240

Accessories & Equipment Differential Weights				Remarks
Air Conditioning			N.A.	33-3500 Series Models only
Air Conditioning			N.A.	34-36-3800 Series Models only
Automatic Trans.			13	33-3500 Series Models only
Automatic Trans.			18	34-36-3800 Series Models only
Power Steering			N.A.	33-3500 Series Models only
Power Steering			N.A.	34-36-3800 Series Models only
Power Brakes			N.A.	
Radio			N.A.	

AMA Specifications—Passenger Car

Page 25

INDEX