

AMA Specifications—Passenger Car

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MANUFACTURER OLDSMOBILE	CAR NAME F-85 and Cutlass	
MAILING ADDRESS Lansing, Michigan	MODEL YEAR 1967	ISSUED: REVISED (●)

NOTES:

1. The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.

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BODY—TYPES AND STYLE NAMES—	Body type, number of passenger & style names; use manufacturer's code for series & body style.					
		L6		V8		
Body Type	Standard	Cutlass	Standard	Cutlass	Supreme	
Club Coupe	33307	---	33407	---	33807	
4 Dr. Sedan	33369	33569	33469	33669	33869	
4 Dr. Hardtop Sedan	---	33539	---	33639	33839	
Station Wagon (2 Seat)	33335	33535	33435	33635	---	
Hardtop Coupe	---	33517	---	33617	33817	
Convertible	---	33567	---	33667	33867	
Vista-Cruiser Station Wagon - see separate AMA						

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	<u>L6</u> 33369	33469	33869
Wheelbase (L101)			115.0	115.0	115.0
Track	Front (W101)		58.0	58.0	58.0
	Rear (W102)		59.0	59.0	59.0
Maximum Overall Dimensions	Length (L103)		204.2	204.2	204.2
	Width (W103)		76.0	76.0	76.0
	Height (H101)		54.4	54.4	54.4
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15	Standard	Standard	Standard
	Manual - 4 speed	15	Optional	Optional	Optional
	Overdrive	15	N.A.	N.A.	N.A.
	Automatic	16	Optional	Optional	Optional
Axle ratio	Manual - 3 speed	17	3.08	3.08	3.23
	Manual - 4 speed	17	3.08	3.08	3.23
	Overdrive	17	N.A.	N.A.	N.A.
	Automatic	17	2.78	2.78	3.08
Tire size		18	7.75 X 14	7.75 X 14	7.75 X 14
Engine	Type, no. cyl., valve arr.	3	In-Line 6 OHV	90° OHV V-8	90° OHV V-8
	Fuel system (Carb., other)	10	Carburetor	Carburetor	Carburetor
	Bore and stroke	3	3.875 X 3.53	3.9375 X 3.385	3.9375 X 3.385
	Piston displ., cu. in.	3	250	330	330
	Std. compression ratio	3	8.5:1	9.0:1	10.25:1
	Max. bhp at engine rpm	3	155 @ 4200	250 @ 4800	320 @ 5200
	Max. torque at rpm	3	240 @ 2000	335 @ 2800	360 @ 3600

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.			
F-85	<u>16</u> 33369		33469	33869

FRONT COMPARTMENT

Shoulder room	W3	58.8	58.8
Hip room	W5	59.9	59.9
ax. eff. leg room - accelerator	L34	41.3	41.5
Effective head room	H61	38.1	38.1
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

Available luggage capacity	V1	20.1
Liftover height	H195	24.4
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
Effective head room	H86	
Seat facing direction		

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	33435
Minimum distance between wheel houses at floor level	W201	44.7
Rear end opening width at belt	W204	52.6
Floor length from back of front seat at floor level to inside of closed tail gate	L202	92.0
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	81.0
Maximum height - floor covering to headlining at centerline of rear axle	H201	30.9
Maximum height of rear opening - tail and lift gates open	H202	28.1
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	85.2

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MODEL	F-85		33469		33869

ENGINE—GENERAL

Type, no. cyls., valve arr.	L6 OHV In Line		90° OHV V-8	
Bore and stroke (nominal)	3.875 x 3.53		3.9385 x 3.385	
Piston displacement, cu. in.	250		330	
Bore spacing (C/L to C/L)	4.40		4.625	
No. system (front to rear)	L. Bank	1-2-3-4-5-6	1-3-5-7	
	R. Bank	(In Line)	2-4-6-8	
Firing order	1-5-3-6-2-4		1-8-4-3-6-5-7-2	
Compres. ratio (nominal)	8.5:1		9.00:1	10.25:1
Cylinder Head Material	Cast Iron		Cast Iron	
Cylinder Block Material	Cast Iron		Cast Iron	
Cylinder Sleeve-Wet, dry, none	None		None	
Number of mounting points	Front	Two	Two	
	Rear	One	One	
Engine installation angle	3° 54'		4° 37'	
Taxable horsepower	Dia ² xNo.Cyl. 2.5	36.04	49.6	
Publishing max. bhp* @ eng. RPM	155 @ 4200		250 @ 4800	320 @ 5200
Publishing max. torque* (lb. ft. @ RPM)	240 @ 2000		335 @ 2800	360 @ 3600
Recommended fuel regular - premium	Regular		Regular	Premium
Idle speed(spec. neutral or drive)	Manual	500 in Neutral	600 in Neutral	
	Automatic	500 in Drive	500 in Drive	

ENGINE—PISTONS

Material	Aluminum Alloy				
Description and finish	Flat, notched head, slipper skirt. Autothermic cam grind tin plate, steel strut.				
Weight (piston only) oz.	20.80		20.670		
Clearance (limits)	Top land	.0345 - .0435		.0275 - .0325	
	Skirt	Top	.0005 - .0011 (xx)		.00075 - .00225
		Bottom			.00075 - .00125
Ring groove depth	No. 1 ring	.2153 - .2218		.2035 - .2105	
	No. 2 ring	.2153 - .2218		.2035 - .2105	
	No. 3 ring	.2093 - .2158		.1955 - .2025	
	No. 4 ring	None		None	

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

(xx) Measured at 2.44 from top of Piston.

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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 Std. 33500 Std.	250	1 Bbl.	8.50	155 @ 4200	240 @ 2000	Fully Synchronized 3-Speed Jetaway	2.78:1 2.78:1
33400 Std. 33600 Std.	330	2 Bbl.	9.00	250 @ 4800	335 @ 2800	Fully Synchronized 3-Speed 4-Speed Jetaway	3.08:1 3.08:1 2.78:1
33800 Std. 33400 Opt. 33600 Opt.	330	4 Bbl.	10.25	320 @ 5200	360 @ 3600	Fully Synchronized 3-Speed 4-Speed Jetaway	3.23:1 3.23:1 3.08:1
33800 Opt. 33400 Opt. 33600 Opt.	330	4 Bbl.	9.00	310 @ 5200	340 @ 3600		
33800 Std. *	400	2 Bbl.	10.50	300 @ 4600	425 @ 3000	Turbo- Hydra-Matic	2.41:1 2.56:1

* Available on Turnpike Cruising Package only.

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression	Compression
	No. 2, oil or comp.	Compression	Compression
	No. 3, oil or comp.	Oil	Oil
	No. 4, oil or comp.	None	None
Compression	Description - UPPER material, coating, etc.	Cast Alloy Iron Chrome Plate	Chrome Plated O.D. Taper Face
	LOWER	Cast Alloy Wear Resistance Coating	Parco Lubrified Taper Face
	Width	.0620-.06251	#1-.0775-.0780 #2-.0770-.0780
	Gap	.010-.020	.010-.020
Oil	Description - material, coating, etc.	Multi-piece (2 rails & 1 spacer exp). 2 rails: spr. steel chr. plated Spacer expander-steel (stainless). . . Spacer: stainless steel Rails-stain. steel chr. plated O.D.	
	Width	.1840-.1880 (assy.)	Rail: .0235-.0250; Spacer: .137-.139
	Gap	.015-.0251	.015-.055
Expanders		In Oil Ring Assembly	None

ENGINE—PISTON PINS

Material	Chromium Steel	Steel SAE #1019	
Length	2.990-3.010	3.126	
Diameter	.9270-.9273	.9803-.9807	
Type	Locked in rod, in piston, floating, etc.	Locked in Rod	Pressed in Rod
	Bushing	In rod or piston Material	None --
Clearance	In piston	.00015-.00025	.0003-.0005
	In rod	None	.0008-.0016 Press
Direction & amount offset in piston	Major Thrust Side .060	.060 to R.H. of Cylinder Bore	

ENGINE—CONNECTING RODS

Material	Drop Forged Steel	Steel SAE #1140	
Weight (oz.)	12.50	24.45	
Length (center to center)	5.699-5.701	6.000	
Bearing	Material & Type	Copper Lead Alloy Sentered Copper Nickel Backed Babbit Steel	Moraine 100 Babbit Steel Backed
	Overall length	.807	.821-.831
	Clearance (limits)	.0007-.0027	.0009-.0030
	End play	.009-.013	(.004-.009 Prefer) .002-.013 3 Rods per Crank Pin

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 MODEL F-85 L6 33369 33469 33869

ENGINE—CRANKSHAFT

Material	Cast Nodular		A.I.S.I. #1049 Modified	
Vibration damper type	Rubber Mounted Inertia		None Rubber Absorption	
End thrust taken by bearing (No.)	7		3	
Crankshaft end play	.002-.006		.004-.008	
Main bearing	Material & type		Copper Lead Alloy or Sintered Copper Nickel Backed Babbitt	
	Clearance		Moraine 100 Babbitt Steel Backed	
	Journal dia. and bearing overall length	No. 1	.0003-.0029	#1-2-3-4: .0005-.0031; #5: .0013-.003
		No. 2	2.3004 x .752	2.50 x .975
		No. 3	2.3004 x .752	2.50 x .975
		No. 4	2.3004 x .752	2.50 x 1.010
		No. 5	2.3004 x .752	2.50 x .975
		No. 6	2.3004 x .752	2.50 x 1.624
No. 7		2.3004 x .752	None	
Dir. & amt. cyl. offset	None		None	
Crankpin journal diameter	1.999-2.000		2.12	

ENGINE—CAMSHAFT

Location	Above and to right of crk/sh.		Center	
Material			Cast Alloy	
Bearings	Material	Steel Backed Babbitt		
	Number	4	5	
Type of Drive	Gear or chain		Gear Chain	
	Crankshaft gear or sprocket material		S.A.E. 1118, 1140, 1141, 1146; G.M. 85M Steel or A.S.T.M. 3-310 Sintered Iron	
	Camshaft gear or sprocket material		S.A.E. Aluminum with Nylon Teeth Optional Cast Iron	
	Timing chain	No. of links	None	48
		Width	None	.750
		Pitch	None	.500

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)	Standard		Standard
Valve rotator, type (intake, exhaust)	None		None
Rocker ratio	1.75:1		1.60:1
Operating tappet clearance (indicate hot or cold)	Intake	Zero	None
	Exhaust	Zero	None
Timing marks on flywheel, damper, other	Torsional Damper		Pulley Hub or Vibration Damper

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	62°	12°	21°	
		Closes (°ABC)	94°	58°	77°	
		Duration-deg.	336°	250°	278°	
	Exhaust	Opens (°BBC)	92° 30'	60°	71°	
		Closes (°ATC)	63° 30'	24°	31°	
		Duration-deg.	336°	264°	282°	
Valve opening overlap		125° 30'	36°	52°		
Intake	Material		Alloy Steel	SAE 1041, 1047 Steel		
	Overall length		4.902 - 4.922	4.740		
	Actual overall head dia.		1.715 - 1.725	1.875		
	Angle of seat & face		46° (Seat) 45° (Face)	45° (Seat) 46° (Face)		
	Seat insert material		None	None		
	Stem diameter		.3410 - .3417	.3432 - .3425		
	Stem to guide clearance		.0010 - .0027	.0010 - .0027		
	Lift (@ zero lash)		.3880	.389	.433	
	Outer spring press. and length	Valve closed (lb. @ in.)	56 - 64 @ 1.66	80 @ 1.670		
		Valve open (lb. @ in.)	180 - 192 @ 1.27	187 @ 1.270		
	Inner spring press. and length	Valve closed (lb. @ in.)	None	Damper		
		Valve open (lb. @ in.)	None	--		
	Exhaust	Material		High Alloy Steel	G.M. N 82152 Steel	
		Overall length		4.913 - 4.933	4.728	
Actual overall head dia.		1.495 - 1.505	1.562			
Angle of seat & face		46° (Seat) 45° (Face)	45° (Seat) 46° (Face)			
Seat insert material		None	None			
Stem diameter		.3410 - .3417	.3427 - .3420			
Stem to guide clearance		.0010 - .0027	.0015 - .0032			
Lift (@ zero lash)		3.880	.390	.433		
Outer spring press. and length		Valve closed (lb. @ in.)	56 - 64 @ 1.66	80 @ 1.670		
		Valve open (lb. @ in.)	180 - 192 @ 1.27	187 @ 1.270		
Inner spring press. and length	Valve closed (lb. @ in.)	None	Damper			
	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	Nozzle Pressure
	Cylinder walls	Con Rod Bearing Throw Off Pressure

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ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type		Gear
Normal oil pressure (lb. @ engine rpm)	30 - 45 @ 1500 RPM	30 - 45 @ 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	4
Oil grade recommended (SAE viscosity and temperature range)	Above 32°F - SAE 20, SAE 20W, SAE 10W30. Below 30°F - SAE 10, SAE 10W30. Below 0°F - SAE 5W, SAE 5W10, SAE 5W20.	
Engine Service Requirement (MM, MS, etc.)		MS or MG

ENGINE—EXHAUST SYSTEM

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

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard Optional	Ventilates to Induction System	Positive Crankcase Ventilator
Control Unit	Make and model		A/C Dual Action
	Location	Rear Rocker Cover	Valve Cover
	Energy source (manifold vacuum, carburetor air stream, other)	Manifold Vacuum	Manifold Vacuum and Carburetor Air
	Control method (variable orifice, fixed orifice, other)	Variable	Fixed Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)	Intake Manifold	Intake Manifold and Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap	Breather Cap
	Flame arrestor (screen, check valve, other)	Check Valve	Screw

* Dual Exhaust available with 4 barrel high compression engine on 33407, 33469, 33617, 33669, 33807, 33817, 33839, 33867 and 33869.

L.H. Exhaust - 2.25 x .076.

L.H. Tail Pipe - 2.00 x .048.

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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	600	
	Drive		
	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		
Timing - Crank degrees @ rpm			
Cooling System (describe changes)			
Exhaust System (describe changes)			

Carburetor - Distributor and same time as Standard Car.

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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)
	Filler location	Behind 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
	Locations	Sintered Bronze and Saren Type Fuel Tank and Carburetor
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	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 and 33500	250	Fully Synchro 3-Speed 4-Speed Jetaway	Rochester	1 BV	One Single Barrel	1.56
			Carter (Air Pump)	YF		
33400 and 33600 (Standard)	330	Fully Synchro and Jetaway	Rochester	2 GC	One	Primary 1 11/16
33400 and 33600 (Optional) 33800 (Standard)	330	Fully Synchro and Jetaway	Rochester	4 MV	One	Primary 1 3/8 Secondary 2 1/4

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure	
Radiator cap relief valve pressure			15 PSI	
Circulation thermostat	Type (choke, bypass)	Choke	By Pass	
	Starts to open at (°F)	177° - 183° F.	180° F.	
Water pump	Type (centrifugal, other)		Centrifugal	
	GPM @ 1000 pump rpm	60 @ 4400	22	
	Number of pumps		One	
	Drive (V-belt, other)		V Belt	
	Bearing type		Lubricated Double Row Ball	
By-pass recirculation type (internal, external)	Internal		External	
Radiator core type (cellular, tube and fin, other)			Tube and Center	
Cooling system capacity	With heater (qt.)	11.7	15.2	
	Without heater (qt.)	11	14.5	
	Opt. equipment-specify (qt.)	11.7 A/C	15.7 A/C	
Water jackets full length of cylinder (yes, no)	Yes		Yes	
Water all around cylinder (yes, no)	Yes		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	One Molded
		Inside diameter	None	.73
Fan	Number of blades & spacing	4 Staggered	4 @ 76	
	Diameter	17.62	17.25	
	Ratio-fan to crankshaft rev.	.949:1	.85:1	
	Fan cutout type	None	Clutch A/C Only	
	Bearing type	Double Row Ball	Ball	
*Drive belts (indicate belt used by letter)	Fan	A	36° x 49.62 x .380	
	Generator or alternator	A	Same Belt	
	Water Pump	A	Same Belt	
	Power Steering	B	36° x 59.5 x .380	
	Air Conditioning	C	36° x 58.5 x .380	

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	T0	42°								
Nominal length (SAE)	39.00	49.50	54.75								
Width	.380	.380	.380								

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ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		Delco - 1980032	Delco - 1980030
	Voltage Rtg. & Total Plates		12V - 54 Plates	12V - 66 Plates
	SAE Designation & Amp Hr. Rtg.		44 AMP HR. @ 20 HR.-Rate	61-AMP HR.
	Location		Rt. Frt. Engine Compartment	Front Left Side
	Terminal grounded			Negative
Generator or Alternator	Make			Delco Remy
	Model			1100767
	Type and rating		Diode Rectified 9-37 AMPS	Self Rectifying 37 AMPS
	Output at engine idle (neutral)			
	Ratio—Gen. to Cr/s rev.		2.46:1	2.33
Regulator	Make			Delco Remy
	Model			1119515
	Type		Vibrator	Vibrating Contact
	Cutout relay	Closing voltage @ generator rpm		None
		Reverse current to open		None
	Regu- lated	Voltage	13.8 - 14.8 @ 85°F	13.5 - 14.4
		Current		None - Self Regulating
	Voltage test conditions	Temperature	Operating	120°F
Load		3 - 8 AMP	Less than 10 AMP	
Other		None	Upper Contacts	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make			Delco Remy
	Model		1107399	1107298 1107330
	Rotation (drive end view)			Clockwise
	Engine cranking speed			150 RPM
	Test conditions		Engine at Operating Temp.	80°F
	No load test	Amps	49 - 76	110 to 140
		Volts	10 - 6	10 - 6
RPM (min)		6200 - 9400	3900	
Motor control	Switch (solenoid, manual)			Solenoid
	Starting procedure		3-speed and 4-speed - place gear shift in neutral and depress clutch to floor. Jetaway - place control lever in park. Initial start - depress gas pedal to floor to set choke turn ignition to start; release as soon as engine starts.	

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with over running dutch		
	Pinion meshes (front, rear)		Front		
	Number of teeth	Pinion	9		
		Flywheel	Manual	153	166
	Auto.		153	166	
	Flywheel tooth face width	Manual	.4010-.4130	.438	
Auto.		.4010-.4130	.438		

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		N.A.			
	Make		Delco Remy			
	Model		1115184	1115216		
	Amps	Engine stopped	4.0			
Engine idling		1-8	2.0			
Distributor	Make		Delco Remy			
	Model		1110351	1111029	1111048	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	900	0°-2° @ 650 RPM		
		Intermediate points deg. @ rpm.	15 1/2°-19 1/2° @ 2050 RPM			
			15°-19° @ 2000 RPM			
	Max. deg. @ rpm.	30° @ 3200 RPM	28°-32° @ 4000 RPM	24°-28° @ 4250 RPM		
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	6	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 in. Hg.			
Max. deg. in. Hg.	21° @ 14.5	21.5° @ 25 in. Hg.				
Breaker gap (in.)		.016				
Cam angle (deg.)		31°-36°	28°-32°			
Breaker arm tension (oz.)		19-23 oz.				
Timing	Crankshaft deg. @ rpm.		4° ± 1° @ 500	7 1/2° @ 850		
	Mark location		Torsional Damper	Pulley Hub	Vibration Damper	
Spark Plug	Make		A.C. Spark Plug			
	Model		AC-46N	AC-45S	AC-44S	
	Thread (mm)		14 mm			
	Tightening torque (lb. ft.)		25	30		
	Gap		.033-.038	.030		
Cable	Conductor type		Linen Core Impregnated Resistance			
	Insulation type		Rubber/Neoprene Jacket Neoprene			
	Spark plug protector		Neoprene	Hypalon		

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ELECTRICAL—SUPPRESSION

Locations & type	Resistance core spark plug lead and coil leads by-pass condenser at alternator.				
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ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	A/C	
	Trip odometer (yes, no)	No	
	Charge indicator—type	Tell-tale	Indicator Lamp
	Temperature indicator—type	Tell-tale	Indicator Lamp
	Oil pressure indicator—type	Tell-tale	Indicator Lamp
	Fuel indicator—type	Electric Gage	Gage
	Other		
	Brake	None	Indicator Lamp
	Make		Delco Appliance
	Type—Standard		2-Speed Electric
	Type—Optional		None
Windshield wiper	Vacuum booster provision		None
	Washer provision		Push Button - Standard
	Type		Vibrator
Horn	Number used		2
	Amp draw (each)	8.00 - 11.0 @ 12.5 Volts	5.2 - 5.7

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	3886126 Chevrolet Single Plate	Own Single Plate
Type pressure plate springs		Flat
Total spring load (lb.)	Net Load 1650 - 1850 Assy.	Net Load 1900 - 2200 Assy.
No. of clutch driven discs		One
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	9.12 x 6.12
	Total eff. area (sq. in.)	71.8
	Thickness	.135 Each
	Engagement cushioning method	Flat Spring
Release bearing	Type & method of lubrication	Ball - Permanent
Torsional damping	Methods: springs, friction material	Coil Springs - Steel Friction

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DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS — MANUAL TRANSMISSION

Number of forward speeds		3	3	4	
Transmission ratios	In first	2.85:1	2.54:1	2.52:1	
	In second	1.68:1	1.50:1	1.88:1	
	In third	1.00:1	1.00:1	1.46:1	
	In fourth	--	--	1.00:1	
	In reverse	2.95:1	2.63:1	2.60:1	
Synchronous meshing, specify gears		1-2-3	1-2-3	1-2-3-4	
Shift lever location		Steering Column	Steering Column	Floor	
Lubricant	Capacity (pt.)	3.50	3.50	2.25	
	Type recommended		Multipurpose		
	SAE viscosity number	Summer		80 or 90	
		Winter		80	
Extreme cold			80		

DRIVE UNITS— MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

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MODEL 35259 35669 38469

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Jetaway		Turbo Hydra-Matic									
Type describe	2 Speed Variable Vane Converter		3 Speed Torque Converter									
Method of Selection (Lever, Push Button or other)	Lever - Column Mounted		Lever - Column Mounted									
Selector Pattern	P	R	N	D	L	P	R	N	D	S	L	
	Park	Reverse	Neutral	Drive	Low	Park	Reverse	Neutral	Drive	Super	Low	
List gear ratios Selector Pattern and indicate which are used in each selector position	1st	2nd	Drive	Low	Reverse	1st	2nd	3rd	Drive	Super	Low	Reverse
	1.75	Direct	1.75	1.76	--	2.48	1.48	Direct	2.48	1.48	2.48	2.08
Max. upshift speeds—drive range	65		1-2 45-50 MPH		2-3 75-80 MPH							
Max. kickdown speeds—drive range	60		2-1 25-30		3-2 67-72 MPH							
Torque converter	Number of elements		3		3							
	Max. ratio at stall		2.45 Low 1.80 High		1.80 High Angle		2.20 Low Angle					
	Type of cooling (air, liquid)		Water		Water							
Lubricant	Capacity—refill (pt.)		19 Dry 5 Refill		23 Total		8 Refill					
	Type recommended		Type A Automatic Transmission Fluid AQ - A+F-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	3.25x59.50x.065	3.38x58.56x.065	N.A.
	Manual 4-speed transmission	3.25x59.50x.065	3.38x58.56x.065	N.A.
	Overdrive transmission	N.A.	N.A.	N.A.
	(2 Speed) Automatic transmission	3.25x59.69x.065	3.00x58.37.065	
(3 Speed) Automatic transmission	3.25x59.23x.065		3.25x61.38x.065	

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

(Continued)

35259 Turbo Hydra-Matic Same as 38469 Hydra-Matic
 Except - Max. Upshift Speed - Drive Range: 1-2 48 MPH 2-3 81 MPH
 Max. Kickdown Speed: 2-1 - N.A. 3-2 70 MPH

Torque Converter: Ratio at Stall: 1-9 High 2.5 Low

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate 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	Salisbury Type-Hypoid Semi-Floating		
Limited Slip differential, type	Multiple Plate Clutch "S" Shaped Pre-Load Spring		
Drive Pinion Offset	1.75		
No. of differential pinions	2		
Ring gear O.D. (std. ratio)	8.50		
Pinion adjustment (shim, other)	Shim		
Pinion bearing adj. (shim, other)	Coll. Spacer		
Wheel bearing type	Ball		
Lubricant	Capacity (pt.)	3.00 (B, P Diff.) 3.69 (O Diff.)	
	Type recommended	Multi purpose, GM 4654-M Std., GM 4744-M Limited Slip	
	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	3.42:1	3.23:1	3.91:1
No. of teeth	Pinion	14	13	12	13	11
	Ring gear	39	40	41	42	43

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DRIVE UNITS—WHEELS

Type & material		Welded Wheel
Rim (size and flange type)	Std.	14 x 5J
	Opt.	14 X 6JK
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	7.75 x 14
	Type - Nylon, etc.	Rayon
Rev/mile at 50 mph.		780
Inflation press. (cold)	Front	24
	Rear	24 (S.W. 28)
Optional tires - size and ply		7.75 x 14 4 Ply - 8 Ply Rating

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.)		Dual	
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		61.6	
Drum or Rotor	Diameter	Front	9 1/2
		Rear	9 1/2
	Type and material		Centrifugal Cast & Composit Opt. on Rear
	Rotor (vented or solid)		
No. pistons per caliper			
Wheel cylinder bore	Front	1 1/16 In.	
	Rear	7/8 In.	
Master cylinder bore		1.0 In.	
Available pedal travel		6.81 Manual 4.15 Power	
Line pressure at 100 lb. pedal load	710 PSI Manual	1180 PSI Power	
Shoe clearance adjustment		.015	

* 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.

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MODEL _____ 4-4-2

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

Type (duo-servo, disc, balanced, etc.)		Front Disc	Rear Drum
Self adjusting (std., opt., N.A.)			Self Adjusting-Standard
Hydraulic system type (single, dual, etc.)			Dual
Power brake make & type (remote, integral, etc.)			Delco-Moraine - Integral
Effective area (sq. in.) *		40.6	66.1
Gross lining area (sq. in.) **		44.8	69.4
Swept drum area (sq. in.) ***		206.4	142
Percent brake effectiveness—front		68	
Drum or Rotor	Diameter	Front 11.00	Rear 9.50
	Type and material	Rotor: Cast Iron	Drum: Composite
	Rotor (vented or solid)	Vented	
	No. pistons per caliper	2	
Wheel cylinder bore	Front	2.06	
	Rear		.81
Master cylinder bore		1.125	
Available pedal travel		4.15	
Line pressure at 100 lb. pedal load		960	
Shoe clearance adjustment		.000	.015 per shoe

* 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.

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BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Drum	
	Bonded or riveted		Riveted	
	Front Wheel	Material		Marshall H3144 Pri.-H3152F Sec.
		Size (length x width x thickness)	Prim. or out-board	7.48 x 2.50 x .166
			Second. or in-board	9.88 x 2.50 x .231
		Segments per shoe		1
	Rear Wheel	Material		Marshall H3144 Pri.-H3152F Sec.
		Size (length x width x thickness)	Prim. or out-board	7.48 x 2.00 x .166
			Second. or in-board	9.88 x 2.00 x .231
		Segments per shoe		1

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 frame, 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 and Travel	
	(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

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MODEL _____ 33455

BRAKES—SERVICE (cont.)

Brake lining	Drum or Disc		Disc Front	Drum Rear	
	Bonded or riveted		Riveted	Riveted	
	Front Wheel	Material		Johns-Manville 2000B-44	
		Size (length x width x thickness)	Prim. or out-board	6 x 1.83 x .38	
			Second. or in-board	6 x 1.83 x .38	
		Segments per shoe		One	
	Rear Wheel	Material		Marshall Pri-H3144: Sec-H3152F	
		Size (length x width x thickness)	Prim. or out-board	7.48 x 2.0 x .166	
			Second. or in-board	9.88 x 2.0 x .231	
		Segments per shoe		One	

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
	No. wheel turns	Gear
Overall		

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STEERING (cont.)

Power	Type (coaxial, linkage, etc.)		Gear Integral
	Make		Saginaw Steering Gear
	Gear	Type	Gear Integral
		Ratios	17.5:1 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 -1/4° to +1/2°
	Toe-in (outside track inches)		.12 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

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SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling		None
Provision for brake dip control		Counter Drive 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. 1.48" Long - .631 Dia.
	Spring rate (lb. per in.)	250 305
	Rate at wheel (lb. per in.)	77 95
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	.812 Dia. SAE 1070 .875 Dia.

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. 114" - .560 Dia.
	Spring rate (lb. per in.)	106 120
	Rate at wheel (lb. per in.)	95 108
	Mounting insulation type	Rubber
	If leaf	No. of leaves Shackle (comp. or tens)
Stabilizer	Type (link, linkless, frameless)	None
	Material	None
Track bar type		None

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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 Ident. 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			1107.1
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 *	25.34
		Lowest	25.26
	Tail	Highest	
		Lowest	
Distance from C/L of car to center of bulb	Headlamp	Inside	16.20
		Outside *	28.45
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

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CONVENIENCE EQUIPMENT

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

Power windows	Side Windows	N.A.	Optional on Cutlass & Cutlass Supreme
	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
Front seat headrest	Optional (Non Strato)		Optional ** (Strato)
Radios (specify type as well as availability)			AM-FM, 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			Optional
Speed control device			Optional
Ignition lock lamp			N.A.
Back up lamp			Standard
Dome lamp			Standard
Glove compartment lamp			Optional
Prkg. brake signal lamp			Standard
Luggage compartment lamp			Optional
Underhood lamp			N.A.
Courtesy lamp			Optional (Standard on 33867)
Map lamp			N.A.
Auto. trans. quad. lamp			N.A.
Emergency flasher lamp			Standard
Cornering light lamp			N.A.
Dual Brake Warning			Standard

* Available on all F-85's except Cutlass Supreme Coupes and Convertibles.

** Available only on Cutlass Supreme Coupes and Convertibles.

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