

AMA Specifications—Passenger Car

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MANUFACTURER Cadillac Motor Car Division	CAR NAME Cadillac
MAILING ADDRESS 2860 Clark, Detroit, Michigan	MODEL YEAR 1966
	ISSUED: 10-14-65
	REVISED (a)

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.

<u>DESCRIPTION</u>	<u>NO. PASS.</u>	<u>STYLE NO.</u>	<u>VEHICLE IDENT. NO.</u>
Fleetwood Sixty Special Sedan	6	68069	M6100001
Fleetwood Brougham	6	68169	P6100001
Calais Hardtop Sedan	6	68239	N6100001
Calais Coupe	6	68257	G6100001
Calais Sedan	6	68269	K6100001
Hardtop Sedan De Ville	6	68339	B6100001
Coupe De Ville	6	68357	J6100001
De Ville Convertible	6	68367	F6100001
Sedan De Ville	6	68369	L6100001
Fleetwood Eldorado Convertible	6	68467	E6100001
Fleetwood Seventy-Five Sedan	9	69723	R6100001
Fleetwood Seventy-Five Limousine	9	69733	S6100001

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.:	60 Spec. & Brougham	Std. & DeVille Sedans	Coupes & Convertibles	Eldorado Convertible	75 Limousine
Wheelbase (L101)			133		129.5		149.8
Track	Front (W101)				62.5		
	Rear (W102)				62.5		
Maximum Overall Dimensions	Length (L103)		227.5		224.0		244.5
	Width (W103)				80.0		
	Height (H101)		56.7	55.6	54.6	55.6	57.4
Transmission (Specify trade name - opt., not available)	Manual - 3 speed	15			None		
	Manual - 4 speed	15			None		
	Overdrive	15			None		
	Automatic	16			Turbo-Hydrmatic		
Axle ratio	Manual - 3 speed	17			None		
	Manual - 4 speed	17			None		
	Overdrive	17			None		
	Automatic	17		2.94:1			3.21:1
Tire size	18	9:00x15 2 Ply-4 Ply				8.20 x 15 4 Ply-8 Ply Rat	
Engine	Type, no. cyl., valve arr.	3	O.V. - V8 - 90°				
	Fuel system (Carb., other)	10	Carburetor				
	Bore and stroke	3	4.130 - 4.000				
	Piston displ., cu. in.	3	429				
	Std. compression ratio	3	10.5:1				
	Max. bhp at engine rpm	3	340 @ 4600				
	Max. torque at rpm	3	480 @ 3000				

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GENERAL SPECIFICATIONS—DIMENSIONS

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

MODEL	SAE Ref. No.	680	681	682	683	682	683	682	683	683	684	75	75
		69	69	69	69	39	39	57	57	67	67	23	33

FRONT COMPARTMENT

Shoulder room	W3				59.7					59.5	60.0	59.7	59.2
Hip room	W5	61.8		61.9		61.9		62.0		62.0	61.8		61.8
Max. eff. leg room - accelerator	L34				41.0					40.5	40.7	41.0	40.2
Effective head room	H61		39.5				38.5			38.7	39.2	39.3	38.7
H Point to Heel point	H30				8.5					8.7	8.2	8.5	9.0

REAR COMPARTMENT

Shoulder room	W4	61.1	60.8	61.0	61.9	61.1	60.6	53.4	53.2		59.0		
Hip room	W6	62.4		62.5		62.7	55.0		55.1				57.5
Minimum effective leg room	L51	45.5	41.6	41.9	38.8	39.5	38.2	38.8	37.3	37.5			44.8
Effective head room	H63	38.2		38.4	37.6	37.5	37.6	37.5	38.0	37.6			37.9

LUGGAGE COMPARTMENT

Usable luggage capacity	V1		17.134						13.462			16.158	
Liftover height	H195	29.2				27.2				30.3		30.1	
Position of spare tire storage									Horizontal				
Method of holding lid open									Spring				

STATION WAGON—THIRD SEAT

Hip room	W86												N.A.
Effective leg room	L86												N.A.
Effective head room	H86												N.A.
Seat facing direction													N.A.

STATION WAGON—CARGO SPACE

MODEL	SAE Ref. No.	
		None Available
Minimum distance between wheel houses at floor level	W201	
Rear end opening width at belt	W204	
Floor length from back of front seat at floor level to inside of closed tail gate	L202	
Minimum horizontal distance from top rear of front seat back to inside of tail gate at belt	L204	
Maximum height - floor covering to headlining at centerline of rear axle	H201	
Maximum height of rear opening - tail and lift gates open	H202	
Cargo volume index (cu. ft.)	$\frac{W4 \times L204 \times H201}{1728}$	V2

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MODEL All

ENGINE—GENERAL

Type, no. cyls., valve arr.	90° - V-8 - O.V.	
Bore and stroke (nominal)	4.13 X 4.00	
Piston displacement, cu. in.	429	
Bore spacing (C/L to C/L)	4.562	
No. system (front to rear)	L. Bank	1 - 3 - 5 - 7
	R. Bank	2 - 4 - 6 - 8
Firing order	1 - 8 - 7 - 2 - 6 - 5 - 4 - 3	
Compres. ratio (nominal)	10.5:1	
Cylinder Head Material	Cast Iron	
Cylinder Block Material	Cast Iron	
Cylinder Sleeve-Wet, dry, none	None	
Number of mounting points	Front	2
	Rear	1
Engine installation angle	5° 55' 41"	
Taxable $\frac{\text{Dia}^2 \times \text{No. Cyl.}}{\text{horsepower}}$	2.5 54.6	
Publishing max. bhp* @ eng. RPM	340 @ 4600	
Publishing max. torque* (lb. ft. @ RPM)	480 @ 3000	
Recommended fuel regular - premium	Premium	
Idle speed (spec. neutral or drive)	Manual	N.A.
	Automatic	** 480 Drive

ENGINE—PISTONS

Material	Aluminum Alloy		
Description and finish	Slipper Type Cam Ground Control Expansion		
Weight (piston only) oz.	21.5		
Clearance (limits)	Top land	.033 - .038	
	Skirt	Top	.0008 - .0012
		Bottom	.000
Ring groove depth	No. 1 ring	.215	
	No. 2 ring	.215	
	No. 3 ring	.177	
	No. 4 ring	None	

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

** A/C System on

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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		
ALL	429	4BBL	10.5:1	340 @ 4600	480 @ 3000	Hydramatic	2.94:1 All except 75 Limo. 3.21:1 Std. in 75 Limo. & all A/C Cars

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MODEL All

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Comp.
	No. 2, oil or comp.	Comp.
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, coating, etc.	#1 Molybdenum Filled Cast Iron #2 Phosphate Coated Cast Iron
	Width	.0625
	Gap	.013 - .030
Oil	Description - material, coating, etc.	Multi-Piece Steel Chrome Plated - Notched ID Rail
	Width	.1875
	Gap	.015 - .061
Expanders		Yes

ENGINE—PISTON PINS

Material	1045		
Length	3.090		
Diameter	.9994 - .9997		
Type	Lacked in rod, in piston, floating, etc.	Locked in Rod	
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston	.00005 - .00015	
	In rod	Press Fit	
Direction & amount offset in piston	.062 Toward Max. Thrust Side		

ENGINE—CONNECTING RODS

Material	1041 Steel	
Weight (oz.)	19.36 Oz.	
Length (center to center)	6.50	
Bearing	Material & Type	M-400 Alum. - Steel Backed
	Overall length	.755 - .880
	Clearance (limits)	.0005 - .0021
	End play	.008 - .014 (Total Two Rods)

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Material		Pearlitic Malleable Iron	
Vibration damper type		Rubber Absorption	
End thrust taken by bearing (No.)		#3 Center Main	
Crankshaft end play		.001" - .007"	
Main bearing	Material & type	M400 Alum. - M100 Babbitt	
	Clearance	.0006" to .003	
	Journal dia. and bearing overall length	No. 1	3.000" X 1.120"
		No. 2	3.000" X 1.062"
		No. 3	3.000" X 1.138"
		No. 4	3.000" X 1.062"
		No. 5	3.000" X 1.120"
	No. 6	None	
	No. 7	None	
Dir. & amt. cyl. offset		See Piston	
Crankpin journal diameter		2.25	

ENGINE—CAMSHAFT

Location		Center of V	
Material		G.M. 120M Cast Iron	
Bearings	Material	Steel Backed Babbitt	
	Number	5	
Type of Drive	Gear or chain	Silent Chain	
	Crankshaft gear or sprocket material	Sintered Iron G.M. 3884M	
	Camshaft gear or sprocket material	Die Cast Alum. - Nylon Gear	
	Timing chain	No. of links	46
		Width	.750
Pitch		.500	

ENGINE—VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Std.
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.65:1
Operating tappet clearance (indicate hot or cold)	Intake	Auto
	Exhaust	Auto
Timing marks on flywheel, damper, other		Crankshaft Balancer

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Timing	Intake	Opens (°BTC)	34	
		Closes (°ABC)	102	
		Duration - deg.	290	
	Exhaust	Opens (°BBC)	89	
		Closes (°ATC)	63	
		Duration - deg.	332	
Valve opening overlap		97		
Intake	Material		1041 Alum. Steel	
	Overall length		4.794	
	Actual overall head dia.		1.875	
	Angle of seat & face		Seat in Head 45° Valve Face 44°	
	Seat insert material		None	
	Stem diameter		.3415 - .3425	
	Stem to guide clearance		.0005 - .0025	
	Lift (@ zero lash)		.427	
	Outer spring press. and length	Valve closed (lb. @ in.)	60-65 @ 1.946"	
		Valve open (lb. @ in.)	155 - 165 @ 1.496"	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		
		Overall length		4.815
Actual overall head dia.		1.500		
Angle of seat & face		Seat 45° Face 44°		
Seat insert material		None		
Stem diameter		.3415 - .3420		
Stem to guide clearance		.0010 - .0025		
Lift (@ zero lash)		.466		
Outer spring press. and length		Valve closed (lb. @ in.)	60-65 @ 1.946"	
		Valve open (lb. @ in.)	155 - 165 @ 1.496"	
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	Metered Centrifugal Flow
	Cylinder walls	Intermediate Jet

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MODEL All

ENGINE—LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear
Normal oil pressure (lb. @ engine rpm)	30-35 @ 30 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)	Element
Capacity of crankcase, less filter-refill (qt.)	4 Qts. - 1 Qt. Filter
Oil grade recommended (SAE viscosity and temperature range)	+32°F SAE 20W - IOW 30 0° to + 32 F SAE IOW - IOW 30 Below 0°F SAE 5W-5W20
Engine Service Requirement (MM, MS, etc.)	MS - 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)	Co-Axial Resonator Exhaust System
Exhaust pipe dia. (O.D., wall thickness)	Branch Main
Tail pipe diameter (O.D. & wall thickness)	Exhaust 2.00 - 2.50 Intermediate 2.24 2.25 - .0598

ENGINE— CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Induction System
	Optional	None
Make and model		AC
Location		Below Carburetor
Energy source (manifold vacuum, carburetor air stream, other)		Manifold Vacuum
Control method (variable orifice, fixed orifice, other)		Spring Loaded Valve Fixed Orifice
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

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MODEL All

ENGINE—EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)		Air Injection Type	
Air Injection Pump	Type	Saginaw Steering Gear	
	Displacement	19.3 Cu. In.	
	Drive ratio	1.5:1	
	Drive type	Belt	
	Relief valve (type)	Popett	
	Filter (describe)	Engine Air Cleaner	
Air Injection System	Air distribution (head, manifold, etc.)	Cylinder Head	
	Point of entry	Manifold	
	Injection tube I.D.	5/16	
	Check valve type	Diaphragm (Delco)	
	Backfire protection (type)	R.P.D. - Anti-Backfire	
Carburetor	Make	Carter	
	Model	4BBL Model APB	
	Barrel size	Pri. 1.4375 Sec. 1.6875	
	Idle speed	550 A/C off	
		Neutral	
		-	
Distributor	Aux. Adv. Systems (type)	None	
	Make	Same as Std. Car (See Page 13)	
	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		Same as Std. Car	
Cooling System (describe changes)		Same as Std. Car	
Exhaust System (describe changes)		Same as Std. Car	

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MODEL All

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.)	26
	Filler location	Back of License Plate
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Lower Left Side - Front of Eng.
	Pressure range	5.25 - 6.50 @ 1800 RPM
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	AC
	Locations	Top Center - Front of Eng. - Oil in Fuel Tank Integral
Carburetor	Choke type	Exhaust
	Intake manifold heat control (exhaust or water)	Exhaust
	Air cleaner type	Dry Pack Single Inlet
	Standard	
	Optional	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
All	429	Automatic	Rochester	<u>7026030</u>	One 4 BBL	Pri. 1.4375
				<u>7026031</u> with A/C	Downdraft	Sec. 1.6875
			Carter	<u>AFB 4168S</u>	"	"
				<u>AFB 4169S</u> with A/C		
			<u>AFB 4171S</u> Calif. Cars with A/C			

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MODEL All

ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure	
Radiator cap relief valve pressure		13.5 - 16.5	
Circulation thermostat	Type (choke, bypass)	Choke	
	Starts to open at (°F)	172° - 177°	
Water pump	Type (centrifugal, other)	Centrifugal Dual Outlet	
	GPM @ 1000 pump rpm	19	
	Number of pumps	One	
	Drive (V-belt, other)	V-Belt	
Bearing type		Double Row Ball Bearing	
By-pass recirculation type (internal, external)		Internal	
Radiator core type (cellular, tube and fin, other)		Tube & Center	
Cooling system capacity	With heater (qt.)	17.2 (Exc. 75 Limo. - A/C Std.)	
	Without heater (qt.)	-	
	Opt. equipment-specify (qt.)	18.2 A/C 20.7 - 75 Limo. A.C	
Water jackets full length of cylinder (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Radiator hose	Lower	Number and type (molded, straight)	(1) Molded
		Inside diameter	1.75
	Upper	Number and type (molded, straight)	(1) Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing		7 @ 54° - 50° - 45° - 40° - 48° - 64° - 59°
	Diameter		18"
	Ratio-fan to crankshaft rev.		1.1:1
	Fan cutout type		None
	Bearing type		Ball
*Drive belts (indicate belt used by letter)	Fan		A B 75 Limo.
	Generator or alternator		A B 75 Limo.
	Water Pump		A B 75 Limo.
	Power Steering		C Std. D A/C E 75 Limo.
	Air Conditioning		F Exc. Limo.

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°	38°	38°					
Nominal length (SAE)	38.08	53.10	49.94	50.24	50.62	56.0					
Width	.380	.460	.380	.460	.460	.460					

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Battery	Make and Model		Delco Remy
	Voltage Rtg. & Total Plates		12 Volt - 13 Plate
	SAE Designation & Amp Hr. Rtg.		73 Amp. Hrs. @ 20 Hr. Rate
	Location		Right Front Side - Under Hood
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100691 1100692 (75 & A/C)
	Type and rating		42 Amp. 55 (75 & A/C)
	Output at engine idle (neutral)		2.78:1
	Ratio—Gen. to Cr/s rev.		Charge @ Idle
Regulator	Make		Delco Remy
	Model		1119515
	Type		Double Contact
	Cutout relay	Closing voltage @ generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.8 - 14.8 @ 100° (Adjust to 14.2)
		Current	None
	Voltage test conditions	Temperature	120 Degrees
Load		10 Amps	
Other			

ELECTRICAL—STARTING SYSTEM

Starting motor	Make		Delco Remy
	Model		1107367 1107368 (75)
	Rotation (drive end view)		Clockwise
	Engine cranking speed		150-200 RPM
	Test conditions		-
	No load test	Amps	70-99
		Volts	10.6
RPM (min)		7800-12000	
Motor control	Switch (solenoid, manual)		Solenoid
	Starting procedure		<u>Cold Start</u> - Depress Acc. to Floor, Remove Foot, Turn Ign. Key Full Right to Start <u>Warm Start</u> - Depress Acc. Halfway Hold Until Engine Starts

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Spiral Spline & Over Running Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	Manual
	Auto.		166
	Flywheel tooth face width	Manual	N.A.
Auto.		.500	

ELECTRICAL—IGNITION SYSTEM

Coil	Transistorized - Std., Opt., N.A.		N.A.
	Make		Delco Remy
	Model		1115132
	Amps	Engine stopped	2.4
Engine idling		1.25	
Distributor	Make		Delco Remy
	Model		1111131
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0° - 1.5° @ 400 RPM
		Intermediate points deg. @ rpm.	4.5° - 6.25° @ 1200 RPM
		Max. deg. @ rpm.	7° - 9° @ 2000 RPM
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in. Hg.)	7.5 - 9.5"
		Intermediate points, deg. @ in. Hg.	3.25° - 5.75° @ 12" 8.50° - 12.00° @ 16"
		Max. deg. in. Hg.	10.50° - 12.00° @ 20"
	Breaker gap (in.)		.016"
	Cam angle (deg.)		28° - 32°
Breaker arm tension (oz.)		19 - 23 oz.	
Timing	Crankshaft deg. @ rpm.		5° BTDC
	Mark location		Crankshaft Balancer
Spark Plug	Make		AC
	Model		44
	Thread (mm)		14MM
	Tightening torque (lb. ft.)		25 Lb.Ft.
	Gap		.035
Cable	Conductor type		Resistant Core
	Insulation type		Neoprene
	Spark plug protector		Neoprene

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MODEL _____ All _____

ELECTRICAL—SUPPRESSION

Locations & type	Packard Electric - Dist. Resistance Wire .3 MFD on Coil Feed Terminal .5 MFD on Gen-Reg. Feed Terminal Two Ground Straps - Rear of Cylinder Head Two Ground Straps - Upper Control Arms
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ELECTRICAL—INSTRUMENTS AND EQUIPMENT

Speed-ometer	Make	A.C.
	Trip odometer (yes, no)	Yes
Charge indicator—type		Tell-Tale
Temperature indicator—type		Gauge
Oil pressure indicator—type		Tell-Tale
Fuel indicator—type		Gauge
Other		
		Trunk Warning Lite - Tell-Tale
Windshield wiper	Make	Delco
	Type—Standard	Electric
	Type—Optional	-
	Vacuum booster provision	-
	Washer provision	Yes
Horn	Type	Solenoid Vibrating Diaphragm
	Number used	3
	Amp draw (each)	4.5 - 5.5

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	None Available	
Type pressure plate springs		
Total spring load (lb.)		
No. of clutch driven discs		
Clutch facing	Material	
	Outside & inside dia.	
	Total eff. area (sq. in.)	
	Thickness	
	Engagement cushioning method	
Release bearing	Type & method of lubrication	
Torsional damping	Methods: springs, friction material	

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DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	None Available		
Transmission ratios	In first		
	In second		
	In third		
	In fourth		
	In reverse		
Synchronous meshing, specify gears			
Shift lever location			
Lubricant	Capacity (pt.)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
Extreme cold			

DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

Type (planetary or other)	None Available		
Manual lockout (yes, no)			
Downshift accelerator control (yes, no)			
Minimum cut-in speed			
Gear ratio			
Lubricant	Capacity (pt.) (Overdrive only)		
	Separate filler (yes, no)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
Extreme cold			

AMA Specifications—Passenger Car

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

MODEL _____ All

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name	Turbo-Hydramatic		
Type describe	Variable Vane Converter with Step Gear shifts		
Method of Selection (Lever, Push Button or other)	Lever		
Selector Pattern	P-R-N-DD-L		
List gear ratios Selector Pattern and indicate which are used in each selector position	Low Gear	2.48	Plus converter multiplicati of 2.00
	Intermediate Gear	1.48	
	High Gear	1.00	
	Reverse	2.07	
Max. upshift speeds—drive range	74-90		67-82 (75)
Max. kickdown speeds—drive range	82-64		75-58 (75)
Torque converter	Number of elements	3	
	Max. ratio at stall	2-1	
	Type of cooling (air, liquid)	Liquid - Water	
Lubricant	Capacity—refill (pt.)	Approx. - 6 Pints	
	Type recommended	Fluid Type "A" (Suffix A)	
Special transmission features			

DRIVE UNITS—PROPELLER SHAFT

Number used	1	2 (75)
Type (exposed, torque tube)	Exposed	
Outer diameter x length* x wall thickness	Manual 3-speed transmission	Not Available
	Manual 4-speed transmission	Not Available
	Overdrive transmission	Not Available
	Automatic transmission	4.00" X 64.33 X .065 3.50" X 60.83 X .065

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

(Continued)

2.75 & 2.25 X .083 - 37.80
2.75 & 2.25 X .083 - 43.65

75 Limo.

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MODEL All

DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		None on Std. Car	Roller Brg. (75)
	Lubrication (fitting, prepack)		Prepack	
Universal joints	Make		Saginaw	
	Number used	2		3 (75)
	Type (ball and trunnion, cross, other)		Cross - Double Cardon	
	Bearing	Type (plain, anti-friction)		Needle
Lubric. (fitting, prepack)			Prepack	
Drive taken through (torque tube or arms, springs)			Four Link Arm	
Torque taken through (torque tube or arms, springs)			Four Link Arm	

DRIVE UNITS—REAR AXLE

Description			
Limited Slip differential, type	Hypoid Cone Clutch		
Drive Pinion Offset	1.75		
No. of differential pinions	2		
Ring gear O.D. (std. ratio)	*		
Pinion adjustment (shim, other)	None		
Pinion bearing adj. (shim, other)	Collapsable Spacer		
Wheel bearing type	Ball		
Lubricant	Capacity (pt.)	5	
	Type recommended	Mil-L-2105B (Contr. Diff. Spec. Lub)	
	SAE viscosity number	Summer	90
		Winter	90
Extreme cold		90	

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio		2.94	3.21
No. of teeth	Pinion	47	45
	Ring gear	16	14
		Ring Gear O.D. 9.424	9.422

2.94 Std. All Series (Exc. 75)
 3.21 Std. on 75 Series
 Std. on All A/C Cars
 Opt. All Series Exc. 75 & A/C

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MODEL All

DRIVE UNITS—WHEELS

Type & material	Slotted Steel Disc	
Rim (size and flange type)	Std.	15-6JK
	Opt.	None
Attachment	Type (bolt or stud)	Stud
	Circle diameter	5"
	Number and size	20-5.5

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	9.00 2 Ply-4 Ply	Rating Black	8.20 4 Ply-8 Ply	Rating (75)
	Type - Nylon, etc.	Nylon			
Rev/mile at 50 mph.		714		713	
Inflation press. (cold)	Front	24		28	
	Rear	24		28	
Optional tires - size and ply		9.00 X 15 2 Ply 4 Ply Rating W/W		8.20 X 15 4 Ply 8 Ply Rating W/W	

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)	Hydraulic Duo-Servo		
Self adjusting (std., opt., N.A.)	Std.		
Hydraulic system type (single, dual, etc.)	Dual		
Power brake make & type (remote, integral, etc.)	Moraine & Bendix - Direct Hyd. Vacuum		
Effective area (sq. in.) *	203.60		
Gross lining area (sq. in.) **	233.50		
Swept drum area (sq. in.) ***	377.00		
Percent brake effectiveness—front	59%		
Drum or Rotor	Diameter	Front	12"
		Rear	12"
	Type and material		Composite Cast Iron Finned
	Rotor (vented or solid)		N.A.
No. pistons per caliper		N.A.	
Wheel cyl- inder bore	Front	1 3/16	
	Rear	1.00	
Master cylinder bore	1.00		
Available pedal travel	4.28		
Line pressure at 100 lb. pedal load	930 PSI		
Shoe clearance adjustment	.010-.030		

* 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

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Brake lining	Drum or Disc		Drum		
	Bonded or riveted		Riveted		
	Front Wheel	Material		Molded Asbestos	
		Size (length x width x thickness)	Prim. or out-board	11.00 X 2.5 X .26	
			Second. or in-board	11.00 X 2.5 X .24	11.00 X 2.5 X .26 (75)
		Segments per shoe		1	
	Rear Wheel	Material		Molded Asbestos	
		Size (length x width x thickness)	Prim. or out-board	12.36 X 2.5 X .28	
			Second. or in-board	12.36 X 2.5 X .26	12.36 X 2.5 X .28 (75)
		Segments per shoe		1	

BRAKES—PARKING

Type of control	Foot Operated - Vacuum Released	
Location of control	Left Side Below Inst. Panel	
Operates on	Rear Service Brakes	
If separate from service brakes	Type (internal or external)	N.A.
	Drum diameter	N.A.
	Lining size (length x width x thickness)	N.A.

FRAME

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

STEERING

Manual (std., opt., NA)		N.A.		
Power (std., opt., NA)		Std.		
Adjustable steering wheel (tilt, swing, other)	Type and description	Tilt & Telescope		
	(std., opt., NA)	Opt.		
Wheel diameter	Manual	N.A.		
	Power	16"		
Turning diameter	Outside front	Wall to wall (l. & r.)	47.9 (62-63) 48.9 (60-61)	
		Curb to curb (l. & r.)	44.7 (62-63) 45.8 (60-61)	
	Inside rear	Wall to wall (l. & r.)	26.5 (62-63) 27.4 (60-61)	
		Curb to curb (l. & r.)	27.1 (62-63) 28.0 (60-61)	
Outside wheel angle with inside wheel at 20°		18° - 10'		
Manual	Gear	Type	N.A.	
		Make	N.A.	
		Ratios	Gear	N.A.
			Overall	N.A.
	No. wheel turns	N.A.		

(Continued)

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MODEL All

STEERING (cont.)

Power	Type (coaxial, linkage, etc.)		Variable Ratio Hydraulic Power
	Make		Saginaw
	Gear	Type	Concentric Gear
		Ratios	Gear Overall
	Pump driven by		Belt
	Number wheel turns		3.7
Linkage	Type		Parallel Draglink
	Location (front or rear of wheels, other)		Rear
	Drag link (trans. or longit.)		Trans.
	Tie rods (one or two)		2
Steering Axis	Inclination at camber (deg.)		6° @ 0°
	Bearings (type)	Upper	Spherical Joints
		Lower	Spherical Joints
		Thrust	Spherical Joints
Wheel Alignment (range at curb weight and preferred)	Caster (deg.)		-1/2° to -1 1/2°
	Camber (deg.)		Left Side + 3/8° to - 1/8° Right Side + 1/8° to - 3/8°
	Toe-in (outside track inches)		3/16" to 1/4"
Steering spindle & joint type			Spherical
Wheel spindle	Diameter	Inner bearing	1.348 - 1.343
		Outer bearing	.8430 - .8435
	Thread size		3/4 - 20
	Bearing type		Tapered Roller

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MODEL All

SUSPENSION—GENERAL

(See Supplemental page for details on Air Suspension)*

Provision for car leveling		Auto. Level Control Std. on 60 Spec. & Eld.
Provision for brake dip control		In Frt. Susp. Design
Provision for acc. squat control		In Frt. Susp. Design
Special provisions for car jacking		Bumper Type
Shock absorber front & rear	Type	Direct Action
	Make	Delco
	Piston dia.	1"
Other special features		Nylon Piston Ring. Freon Envelope Eliminate Aeration of Oil

SUSPENSION—FRONT

Type and description	Independent - Coil		
Spring	Type	Coil	
	Material	9260	
	Size (coil design height & I.D.; bar length x dia.)	10.09"x4.00"x157.70x.680 (62 & 63)	10.44x4.00x163.50x.730 (75)
	Spring rate (lb. per in.)	335 (60 & 61)	325 (62-63-64) 425 (75)
	Rate at wheel (lb. per in.)	89 (60 & 61)	86 (62-63-64) 120 (75)
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	1085 Steel .815 (60-62-63) .875 (75)	

SUSPENSION—REAR

Type and description	4 Link Susp.		
Drive and torque taken through	Links		
Spring	Type	Coil	
	Material	9260 Steel	
	Size (length x width, coil design height & I.D.; bar length & dia.)	9.00" x 5.50" x 145.9" x .590	9.17" x 5.20" x 149.75" x .695 (75)
	Spring rate (lb. per in.)	95 (60 & 61)	115 (62-63-64) 250 (75)
	Rate at wheel (lb. per in.)	110 (60 & 61)	110 (62-63-64) 157 (75)
	Mounting insulation type	Rubber	
	If leaf	No. of leaves	N.A.
Shackle (comp. or tens)		N.A.	
Stabilizer	Type (link, linkless, frameless)	N.A.	
	Material	N.A.	
Track bar type	N.A.		

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	68069	68367	68269	68257	68239	75
	68169	68467	68369	68357	68339	
MODEL _____						

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front			
	Rear doors	Center			
Type of finish (lacquer, enamel, other)		Acrylic			
Hood counterbalanced (yes, no)		Yes			
Hood release control (internal, external)		External			
Vehicle Ident. No. location		R.H. Side Rail at #1 Crossmember			
Engine No. location		Rear Top Crankcase			
Theft protection - type		Ign. Key Start Door Lock			
Vent window control method (crank, friction pivot)	Front	60 & 68467	Eld. - Power Std.	All others crank	
	Rear	" "	" "		
Seat cushion type	Front	Zig-Zag Spring - 62 & 63		Coil Spring 60-61-75	
	Rear	Zig-Zag Spring - 62 & 63		Coil Spring 60-61-75	
	3rd seat	None			
Seat back type	Front	Zig-Zag Spring - 62 & 63		Coil Spring 60-61-75	
	Rear	Zig-Zag Spring - 62 & 63		Coil Spring 60-61-75	
	3rd seat	None			
Windshield glass type (i.e., single curved - laminated plate)		Compound Curve - Laminated			
Side glass type (i.e., curved - tempered plate)		Vent Window Curved - Laminated		Side Window Curved Tempered	
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Tempered Plate			
		CC	SC	CC	SC
Windshield glass exposed surface area	1532.2	1467.9	1532.2	1467.9	1532.2
Side glass exposed surface area	1959.6	1744.2	1865.7	1749.0	1769.2
Backlight glass exposed surface area	852.8	876.0	1095.0	908.4	496.8
Total glass exposed surface area	4344.8	4088.1	4492.9	4120.3	4145.5

LAMP HEIGHT AND SPACING

Height above ground to center of bulb	Headlamp	Highest *	29.98	30.08**	30.88
		Lowest	23.32	23.42**	24.22
	Tail	Highest	24.60	22.60**	23.40
		Lowest		-	
Distance from C/L of car to center of bulb	Headlamp	Inside		-	
		Outside *		34.75	
	Tail	Inside		-	
		Outside		34.75	
	Directional	Front		24.42	
		Rear		34.75	

* If single headlamps are used enter here.

** Eldorado - 68467 - Highest	29.48		
Lowest	22.82		Headlamp
Highest	25.7		Tail

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