

AMA Specifications – Passenger Car

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MANUFACTURER OLDSMOBILE	CAR NAME DYNAMIC 88 & NINETY EIGHT
MAILING ADDRESS LANSING, MICHIGAN	MODEL YEAR 1965
	ISSUED: 9-24-64
	REVISED (•)

NOTES:

- The Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.
- UNLESS OTHERWISE INDICATED:
 - Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - 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>Body Type</u>	<u>Passengers</u>	<u>Dynamic 88</u>	<u>Delta 88</u>	<u>Ninety Eight</u>
Hardtop Coupe (2 Dr.)	6	35637	35837	38437
Hardtop Sedan (4 Dr.)	6	35639	35839	38439
Convertible (2 Dr.)	5	35667	_____	38467
4 Door Sedan (4 Dr.)	6	35669	35869	38469
Luxury Sedan (4 Dr.)	6	_____	_____	38669

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.	35669	38469
Wheelbase (L101)		23	123	126
Tread	Front (W101)	22	62.5	62.5
	Rear (W102)	22	63.0	63.0
Maximum Overall Dimensions	Length (L103)	23	216.9	222.9
	Width (W103)	22	80.0	80.0
	Height (H101)	24	55.5	55.8
Transmission— (Specify trade name - opt., not available)	Manual	15	Std.	N. A.
	Overdrive	16	N. A.	N. A.
	Automatic	16	Opt.	Std.
Axle ratio	Manual	17	3.23	N. A.
	Overdrive	17	N. A.	N. A.
	Automatic	17	2.93	3.08
Tire size		18	8.25 x 14	8.55 x 14
Engine	Type, no. cyl., valve arr.	2	90° OHV V-8	
	Fuel system (Carb., other)	8	Carburetor	
	Bore and stroke	2	4.125 x 3.975	
	Piston displ., cu.in.	2	425	
	Std. compression ratio	2	10.25:1	
	Max. bhp at engine rpm	2	310 @ 4400	360 @ 4800
	Max. torque at rpm	2	450 @ 2400	470 @ 2800

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GENERAL SPECIFICATIONS — DIMENSIONS

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

MODEL	Ref. No.	35669	38469
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FRONT COMPARTMENT

Shoulder room	W3	62.3	62.2
Max. eff. leg room - accelerator	L34	41.4	41.3
Effective head room	H61	38.7	39.4
H Point to Heel point	H30	8.5	8.1
Upper body opening to ground	H50	44.4	44.9

REAR COMPARTMENT

Shoulder room	W4	61.4	61.4
H Point couple distance	L50	36.3	39.4
Minimum effective leg room	L51	39.2	40.2
Effective head room	H63	37.7	38.1

STATION WAGON—THIRD SEAT

Shoulder room	W85		
Effective leg room	L86		
Effective head room	H86		

NOT AVAILABLE

LUGGAGE COMPARTMENT

Usable luggage capacity (See Instr.)	V1	19.4	23.4
Liftover height	H195	27.9	25.9
Position of spare tire storage			
Method of holding lid open			

Trunk Incline

Counter Balance Torsion Bar

STATION WAGON—CARGO SPACE

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		NOT
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		AVAILABLE
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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ENGINE—GENERAL

Type, no. cyls., valve arr.	90° OHV V-8	
Bore and stroke (nominal)	4.125 x 3.975	
Piston displacement, c.u. in.	425	
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	
Compras. ratio (nominal)	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	40	
Taxable horsepower	54	
Published max. bhp* @ eng. RPM	310 @ 4400	360 @ 4800
Published max. torque* (lb. ft. @ RPM)	450 @ 2400	470 @ 2800
Recommended fuel regular - premium	Premium	
Idle speed (spec. neutral or drive)	Manual	550
	Automatic	500

ENGINE—PISTONS

Material	Aluminum Alloy	
Description and finish	Autothermic, Cam Grind Tin Plate, Steel Strut	
Weight (piston only) oz.	23.460	
Clearance (limits)	Top land	.0275 - .0325
	Skirt	Top .0010 - .0025
		Bottom .0010 - .0015
Ring groove depth	No. 1 ring	.2125 - .2195
	No. 2 ring	.2125 - .2195
	No. 3 ring	.2025 - .2095
	No. 4 ring	

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

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(Dynamic 88 & Ninety-Eight)

POWER TEAMS

(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
Dynamic 88 Delta 88 Standard	425	2 bbl.	10.25	310 @ 4400	450 @ 2400	3 Sp. Synchromesh 4 Sp. Synchromesh Turbo Hydra-Matic	3.23 3.23 2.93
Ninety-Eight Standard	425	4 bbl.	10.25	360 @ 4800	470 @ 2800	Turbo Hydra-Matic	3.08
Dynamic 88 Delta 88 Option	425	2 bbl.	9.00	300 @ 4400	430 @ 2400	3 Sp. Synchromesh 4 Sp. Synchromesh Turbo Hydra-Matic	3.23 3.23 2.73
	425	4 bbl.	10.25	360 @ 4800	470 @ 2800	3 Sp. Synchromesh 4 Sp. Synchromesh Turbo Hydra-Matic	3.23 3.23 3.08
*	425	4 bbl.	10.50	370 @ 4800	470 @ 3200	Turbo Hydra-Matic	3.23

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ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.	Compression	
	No. 2, oil or comp.	Compression	
	No. 3, oil or comp.	Oil	
	No. 4, oil or comp.	None	
Compression	Description - material, type, coating, etc.	Cast Iron-Upper Ring-Chrome Plated O.D. Taper Face Garmotox Lower Ring: Taper Face	
	Width	#1 .0775 - .0780	#2 - .770 - .0780
	Gap	.013 - .023	
Oil	Description - material, type, coating, etc.	Two Rails - Spring Steel Chrome Plated Spacer: Cold Roll Spacer Steel	
	Width	Rails: .0235 - .0252	Spacer: .137 - .134
	Gap	Rails: .015 - .055	Spacer: .285
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		.075 to R. H. of Cylinder Bore Centerline	

ENGINE—CONNECTING RODS

Material		SAE #1140 Steel	
Weight (oz.)		31.08	
Length (center to center)		6.996 - 7.000	
Bearing	Material & Type		Moraine 400 (GM 3889M Aluminum) Steel Backed
	Overall length		.821 - .831
	Clearance (limits)		.0005 - .0026
	End play		(.004 - .009) Preferred .002 - .013 2 Rods per Crankpin

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ENGINE—CRANKSHAFT

Material		A. I. S. I #1049 Modified	
Vibration damper type		Tuned Rubber	
End thrust taken by bearing (No.)		Three	
Crankshaft end play		.004 - .008	
Main bearing	Material & type		Moraine 400 (G. M. 3889-M Aluminum) Steel Backed
	Clearance		1, 2, 3 & 4 .0005 - .0021 #5 .0020 - .0034
	Journal dia. and bearing overall length	No. 1	3.00 x .975
		No. 2	3.00 x .975
		No. 3	3.00 x 1.194
		No. 4	3.00 x .975
		No. 5	3.00 x 1.624
		No. 6	-
		No. 7	-
	Dir. & amt. cyl. offset		-
Crankpin journal diameter		2, 4988 - 2, 5003	

ENGINE—CAMSHAFT

Location	Center		
Material	GM 120 M Alloy Cast Iron		
Bearings	Material	Steel Backed Babbitt GM 4195 or CG B# F-11	
	Number	5	
Type of Drive	Gear or chain	Chain	
	Crankshaft gear or sprocket material	G. M. 85M, Sintered Iron ASTM B - 310 - 56T, SAE 1118, 1140, 1141, 1146	
	Camshaft gear or sprocket material	Diecast Aluminum SAE #308 - #101 Nylon Teeth Optional Cast Iron	
	Timing chain	No. of links	48
		Width	.875 Morse .844 Link Belt
		Pitch	.500

ENGINE—VALVE SYSTEM

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

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (°BTC)	21°	
		Closes (°ABC)	77°	
		Duration - deg.	278°	
	Exhaust	Opens (°BBC)	71°	
		Closes (°ATC)	31°	
		Duration - deg.	282°	
Valve opening overlap		52°		
Intake	Material		SAE #1041 SAE #1047 Steel	
	Overall length		4.677	
	Actual overall head dia.		2.000 - 1.990	
	Angle of seat & face		45° & 46°	
	Seat insert material		None	
	Stem diameter		.3432 - .3425	
	Stem to guide clearance		.0010 - .0027	
	Lift (@ zero lash)		.431	
	Outer spring press. and length	Valve closed (lb. @ in.)	76 - 84 - 1.670	
		Valve open (lb. @ in.)	180 - 194 - 1.270	
	Inner spring press. and length	Valve closed (lb. @ in.)	Damper	
		Valve open (lb. @ in.)	-	
	Exhaust	Material		GM #N82152 Steel
		Overall length		4.665
		Actual overall head dia.		1.629 - 1.619
		Angle of seat & face		45° & 46°
Seat insert material		None		
Stem diameter		.3427 - .3420		
Stem to guide clearance		.0015 - .0032		
Lift (@ zero lash)		.433		
Outer spring press. and length		Valve closed (lb. @ in.)	76 - 84 - 1.670	
		Valve open (lb. @ in.)	180 - 194 - 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

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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 5 W
Engine Service Requirement (MM, MS, etc.)	

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with Crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)	Reverse Flow with Separate Resonator
Exhaust pipe dia. (O.D. wall thickness)	2.25 x .076
Branch	2.25 x .076
Main	2.25 x .048
Tail pipe diameter (O.D. & wall thickness)	2.25 x .048

ENGINE—CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard	Positive Crankcase Ventilation
	Optional	None
Control unit	Make and model	AC Dual Valve
	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 & Air Cleaner
	Air inlet (breather cap, carburetor air cleaner, other)	Breather Cap
	Flame arrestor (screen, check valve, other)	Screw

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ENGINE—FUEL SYSTEM

(See Supplement to Page 8 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.		Carburetor
Fuel Tank	Capacity (gals.)	25
	Filler location	Behind License Plate Rear Bumper
Fuel Pump	Type (elec. or mech.)	Mechanical
	Locations	Right Front on Block
	Pressure range	7 3/4 - 9 PSI
Vacuum booster (std., optional, none)		None
Fuel Filter	Type	Sintered Bronze & Saran Type
	Locations	Carburetor & Fuel Tank
Carburetor	Choke type	Automatic
	Intake manifold heat control (exhaust or water)	Exhaust
	Air clnr. type	Paper
		None

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
Dynamic 88 STD	425	Syncromesh & Turbo Hydramatic	Rochester	2GC	1	1.69
Delta 88						
Dynamic 88 OPT	425	Syncromesh & Turbo-Hydramatic	Rochester	4 GC	1	Prim. 1.5 Sec. 1.69
Delta 88						
Ninety Eight STD	425	Turbo-Hydramatic	Rochester	4GC	1	Prim. 1.56 Sec. 1.69

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(Dynamic 88 & Ninety-Eight)

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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
	Starts to open at (°F)	180°
	Type (centrifugal, other)	Centrifugal
	GPM @ 1000 pump rpm	22
Water pump	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.)	17.5
	Without heater (qt.)	16.5
	Opt. equipment-specify (qt.)	18.0 Air Conditioning
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
	Upper	Inside diameter
		1.75
	By-pass	Number and type (molded, straight)
		1 Molded
Fan		Inside diameter
		1.50
		Number and type (molded, straight)
		1 Molded
		Inside diameter
		.7
	Number of blades & Spacing	4 @ 76°
	Diameter	18.00
	Ratio-fan to crankshaft rev.	.8486
	Fan cutout type	Clutch A/C Only
	Bearing type	Ball
*Drive belts (indicate belt used by letter)	Fan	50.82
	Generator	Same
	Water Pump	Same
	Power Steering	61.70
	Air Conditioning	64.05

* Drive Belt Dimensions

Angle of V

Nominal length (SAE)

Width

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MODEL **35669** **38469**

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model		1980570 Delco Remy	1980004
	Voltage Rtg. & Total Plates		12V - 66 Plates	12V - 78 Plates
	SAE Designation & Amp Hr. Rtg		35MA - 70 Amp Hr.	35MA - 73 Amp Hrs.
	Location		Engine Compartment - Front L. H. Side	
	Terminal grounded		Negative	
Generator	Make		Delco Remy	
	Model		1100699	
	Type		Diode Rectifying	
	Ratio—Gen. to Cr/s rev.		2.33	
	Gen. cut-in (hot)—engine rpm		Charge on Idle	
Regulator	Make		Delco Remy	
	Model		1119515	
	Type		Vibrating Contact	
	Cutout relay	Closing voltage @ generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.5 - 14.4	
		Current	One - 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		1107330 - T - 2446 (Halpin)	
	Rotation (drive end view)		Clockwise	
	Engine cranking speed		Not Specified	
	Test conditions		80 ° F	
	Lock test	Amps	Not Specified	
		Volts	Not Specified	
		Torque (lb. ft.)	Not Specified	
	No load test	Amps	70 - 105	
		Volts	10.6	
		RPM (min.)	3800	
Motor control	Switch (solenoid, manual)		Solenoid	
	Starting procedure		Turn Ignition Key Against Spring Load to Full Clockwise Position. Cars Equipped with Automatic Transmissions Must be in Park or Neutral to Start.	

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(Dynamic 88 & Ninety-Eight)

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ELECTRICAL—STARTING SYSTEM (cont.)

Motor Drive	Engagement type		Solenoid with Overrunning Clutch
	Pinion meshes (front, rear)		Front
	Number of teeth	Pinion	9
		Flywheel	166
		Flywheel tooth face width	

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy	
	Model		1115216 - T-3153-A	
	Amps	Engine stopped	6.0 at 12V (75° Winding Temp)	
		Engine idling	1.35	
Distributor	Make		Delco Remy	
	Model		1111042	
	Cent'fgal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0°-2° @ 650 RPM	
		Intermediate points deg. @ rpm	12°-16° @ 1800 RPM	
		Max deg. @ rpm	20°-24° @ 4000 RPM	
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	0° at 10" Hg.	
		Intermediate points, deg @ in Hg	2.5 - 10 @ 13"	
			7.5 - 15.5 @ 15" 16.5 - 20.25 @ 19"	
	Max. deg. in. Hg.		21.5 @ 22"	
	Breaker gap (in.)		.016	
Timing	Cam angle (deg.)		28°-32°	
	Breaker arm tension (oz.)		19-32	
	Crankshaft deg. @ rpm.		50° @ 850 RPM	
	Mark location		Pulley Hub	
	Cylinder numbering system (see page 2)		Right Bank 2-4-6-8 Left Bank 1-3-5-7	
Spark Plug	Firing order (see page 2)		1-8-4-3-6-5-7-2	
	Make and model		AC 44 S	
	Thread (mm)		14MM	
	Tightening torque (lb. ft.)		30	
	Gap		.030	
Cable	Conductor type		Resistance	
	Insulation type		Neoprene	
	Spark plug protector		Hypalon	

ELECTRICAL—SUPPRESSION

Locations & type	Resistance core sparkplug leads and coil leads. Bypass condensers at alternator, regulator and coil on radio equipped cars.
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(Dynamic 88 & Ninety-Eight)

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ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC
	Trip odometer (yes, no)	No
Charge indicator—type		Ind. Lamp
Temperature indicator—type		Ind. Lamp
Oil pressure indicator—type		Ind. Lamp
Fuel indicator—type		Gauge
Other		
Ignition switch	Identify positions in order and circuits controlled	1. Accessory On Ignition Off 2. Off - Lock Position 3. Ignition On - Ignition thru Resistor 4. Accessory Off - Ignition Direct, Solenoid On.
	Run	
	Start	
	Provision for illumination	No
	Location	Instrument Panel - Right of Steering Column
Main lighting switch	Identify positions and lamps controlled	1. Park, Instrument, Tail & License Lights 2. Headlights, Instrument, Tail & License Lights
	Rotate Control	Dims Instrument Lights
Other light switches	Locations and lamps controlled	
	Foot Dimmer Map & Courtesy Lights	L.H. Toe Pan - Controls Hi & Lo Beam Headlamps Right of Driver on Instrument Panel Overhang
Other switches	Locations and devices controlled	
	W/S Wiper Heater Power Top Electric Antenna	Left of Driver on Instrument Panel Right of Driver on Instrument Panel Instrument Panel Overhang - Right of Driver Instrument Panel Overhang - Right of Driver
Windshield wiper	Make	Delco Appliance
	Type	Electric 1 Speed Electric 2 Speed
	Vacuum booster provision	None
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	5.2 5.7

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ELECTRICAL—LAMP BULBS

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

Headlamps & arrangement	Dual Headlight	L4001 - L4002	2 Ea.
Headlamp beam indicator		1-194	
Parking		2-1157	
Tail		4-1157 *	
Stop		Same as *	
Direction signal	Front	2-1157A	
	Rear	2-1157	
	Indicator	2-194	
License Plate		1-97	
Oil pressure indicator		1-194	
Charge indicator		2-194	
Instrument		1-1893	
Clock		1-1893	
Radio			

Indicate also whether the following lamp assemblies are standard equipment, optional, or NA.

Ignition lock	1-1445
Back up	2-1156
Dome	1-1004
Glove compartment	1-1895
Prkg. brake signal	1-194
Luggage compartment	1-631
Underhood	1-631
Courtesy	2-90
Map	1-90
Gas Gauge	2-194
Temp Cold	1-194
Temp Hot	1-194
Heater Cont	1-1895
Ash Tray	2-1445

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ELECTRICAL—FUSE & CIRCUIT BREAKER DATA

Use trade number of fuse, e.g., SFE-10. Indicate circuit breaker by ampere capacity suffixed by letters "C.B.", e.g., 30 C.B. Where fuse or circuit breaker protects multiple circuits indicate first use by a letter and repeat the same letter for all units protected by the same fuse or circuit breaker, e.g., Parking lamp SFE-10 (a), Direction Indicator same as (a).

Headlamp	SFE-9 (A)
Headlamp beam indicator	Same as (A)
Parking lamp	Same as (A)
Tail lamp	SFE-9 (B)
Stop lamp	SFE-20
Direction indicator	Same as (A)
License plate lamp	Same as (A)
Instrument lamp	Same as (A)
Ignition lamp	Same as (A)
Back up lamp	Same as (A)
Dome lamp	SFE-20 (D)
Clock	Same as (D)
Clock lamp	Same as (A)
Radio	SFE 9
Glove compartment lamp	SFE 9 (E)
Underhood Lamp	Same as (E)
Cornering Lamp	Same as (E)
Heater	SFE 20
Air Conditioning	AGC 25 (F)
Rear Window Defroster	Same as (F)
Windshield Wiper	SFE 20
Electric antenna	SFE 20 (G)
Power Windows	Same as (G)
Cruise Control	Same as (G)
Power Seats	AGC 25
Courtesy & Cigar Lighter	Same as (D)
Rear Seat Lighters	AGC 25

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

Height above ground to center of bulb	Tail	Lowest	19.9	25.5
		Highest	28.8	-
	Stop		28.8 Upper 19.9 Lower	25.5
	Backup		15.5	15.5
	License, rear		21.3	22.1
	Directional	Front	18.0	18.0
		Rear	28.8 Upper 19.9 Lower	25.5
	Headlamp	Inside	25.8	25.8
		Outside*	25.8	25.8
	Distance from C/L of car to center of bulb	Tail	Inside	32.2
Outside			-	-
Stop		32.2	24.1	
Backup		12.9	12.9	
License, rear		0.0	0.0	
Directional		Front	14.4	14.4
		Rear	32.2	34.1
Headlamp		Inside	24.2	24.2
		Outside*	31.8	31.8

* If single headlamps are used enter here.

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MODEL	35669		38469			

DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type	Borg & Beck #1657		N. A.
Type pressure plate springs	Coil		
Effective plate pressure (lb.)	Net Plate Load 2558 #		
No. of clutch driven discs	One		
Clutch facing	Material	Woven Asbestos	
	Outside & inside dia.	10.5 x 6.5	
	Total eff. area (sq.in.)	100.6	
	Thickness	.135 Each Facing	
	Engagement cushioning method	Torband Plate	
Release bearing	Type & method of lubrication	Ball Permanent	
Torsional damping	Methods: springs, friction material	Coil Springs - Steel Friction	

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds	3		N. A.
Transmission ratios	In first	2.59	
	In second	1.60	
	In third	Direct	
	In fourth	-	
	In reverse	3.33	
Synchronous meshing, specify gears	2 & 3		
Shift lever location	Steering Column		
Lubricant	Capacity (pt.)	3.08	
	Type recommended	Multipurpose	
	SAE viscosity number	Summer	80 or 90
		Winter	80 or 90
		Extreme cold	80 or 90

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE

For transmission data see manual transmission section

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

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Turbo Hydra-Matic						
Type describe		3 Speed Torque Converter						
Method of Selection (Lever, Push Button or other)		Lever						
Selector Pattern		P	R	N	D	S	L	
		Park	Reverse	Neutral	Drive	Super	Low	
List gear ratios Selector Pattern and indicate which are used in each selector position		Drive		Super		Low		Reverse
		1st		2.48		2.48		2.07
		2nd		1.48		-		-
		3rd		Direct		-		-
Max. upshift speeds—drive range		1-2 40 MPH		2-3 75 MPH				
Max. kickdown speeds—drive range		2-1 18 MPH		3-2 66 MPH				
Torque converter	Number of elements	Three						
	Max. ratio at stall	1.80 High Angle 2.20 Low Angle						
	Type of cooling (air, water)	Water						
Lubricant	Capacity—refill (pt.)	23 Total		8 Refill				
	Type recommended	Type "A" Automatic Transmission Fluid Suffix A						
Special transmission features		Converter Has a Variable Stator Which Gives Better Top Gear Efficiency, with Increased Performance and Good Creep Characteristics.						

DRIVE UNITS—PROPELLER SHAFT

Number used		One	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	3.38 x 58.56 x .065	None
	Overdrive transmission	None	
	Automatic transmission	3.00 x 58.37 x .065	3.25 x 61.38 x .065

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

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DRIVE UNITS—PROPELLER SHAFT (cont.)

Inter-mediate bearing	Type (plain, anti-friction)		Anti-Friction
	Lubrication (fitting, prepack)		Prepack
Universal joints	Make		Saginaw Steering Gear & Spicer
	Number used		Two
	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 (see instructions)		Salisbury - Live - Hypoid - Semi-Floating		
Limited Slip differential, type		Multiple Plate Clutch		
Drive Pinion Offset		1.75		
No. of differential pinions		2		
Gear ratios (Std. equip.)	Manual transmission	3.23:1		N.A.
	Overdrive transmission	None		
	Automatic transmission	2.93:1		3.08:1
Ring gear O.D. (std. ratio)		8 7/8		
Pinion adjustment (shim, other)		Shim		
Pinion bearing adj. (shim, other)		Coll. Spacer		
Wheel bearing type		Ball		
Lubricant	Capacity (pt.)		4.63	
	Type recommended		Multipurpose Mil-L-2105B	
	SAE viscosity number	Summer	80-90	
		Winter	80-90	
		Extreme cold	80-90	

REAR AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		2.73	2.93	3.08	3.23	3.42
No. of teeth	Pinion	15	14	13	13	13
	Ring gear	41	41	40	40	42

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DRIVE UNITS—WHEELS

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

DRIVE UNITS—TIRES

Standard (List option below)	Size & ply	8.25 x 14	8.55 x 14
	Type - Nylon, etc.	Rayon	
Rev/mile at 50 mph.		760	742
Inflation press.(cold)	Front	24	
	Rear	24	
Optional tires - size and ply		8.55 x 14	8.85 x 14

BRAKES—SERVICE

Type (duo-servo, disc, balanced, etc.)			Duo Servo
Self adjusting (std., opt., N.A.)			Standard
Hydraulic system type (single, dual, etc.)			Single
Power brake make & type (remote, integral, etc.)			Moraine & Bendix (Integral)
Effective area (sq. in.)*			202.0 222.6
Gross lining area (sq. in.)**			208.6 229.2
Swept drum area (sq. in.)***			328.0 363.0
Percent brake effectiveness—front			56
Drum	Diameter	Front	11
		Rear	11
	Type and material		Centrifuse Cast Iron in Steel Shell
Wheel cyl- inder bore	Front	1 1/8	
	Rear	1"	
Master cylinder bore			1" Manual 1" Power
Available pedal travel			5.50 Manual 3.82 Power
Line pressure at 100 lb. pedal load			750 PSI Manual 670 PSI @ 40# Pedal
Shoe clearance adjustment			.015

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes

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

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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

Metallic Linings Optional D88 & 98

Type (dual-servo, disc, balanced, etc.)		Duo Servo
Self adjusting (std., opt., N.A.)		Standard
Hydraulic system type (single, dual, etc.)		Single
Power brake make & type (remote, integral, etc.)		Moraine & Bendix Integral
Effective area (sq. in.)*		145
Gross lining area (sq. in.)**		145
Swept drum area (sq. in.)***		328
Percent brake effectiveness—front		58.5 %
Drum	Diameter	Front 11
		Rear 11
	Type and material	Centrifuse Cast Iron in Steel Shell
Wheel cylinder bore	Front	1 3/16
	Rear	1
Master cylinder bore		7/8 Manual 7/8 Power
Available pedal travel		5.50 Manual 3.82 Power
Line pressure at 100 lb. pedal load		980 PSI Manual 875 @ 40# Pedal
Shoe clearance adjustment		.015

(Continued)

* Excludes rivet holes, grooves, chamfers, etc.

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

*** Total swept areas for four brakes

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

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BRAKES—SERVICE (cont.)

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Marshall H 3144 Primary	
		Size (length x width x thickness)	Front wheel	10.75 x 2.75 x .20
			Rear wheel	9.00 x 2.00 x .20
		Segments per shoe	One	
	Rear Shoe	Material	Marshall H 3152 F	
		Size (length x width x thickness)	Front wheel	12.25 x 2.75 x .29
			Rear wheel	11.5 x 2.00 x .29
		Segments per shoe	One	
				9.00 x 2.50 x .20

BRAKES—PARKING

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

FRAME or UNITIZED CONSTRUCTION

Type and description

Channel Section Side Rails on 88 and Box Section on 98

SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)*

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

SUSPENSION—FRONT

Type and description	Independent Coil Springs
----------------------	--------------------------

* Air Suspension:
Air spring type
Compressor data
type
make
drive ratio

Normal operating pressures
spring rates
leveling data

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BRAKES—SERVICE (cont.)

METALLIC LINING OPTION

Brake lining	Bonded or riveted		Riveted	
	Front Shoe	Material	Moraine 705	
		Size (length x width x thickness)	Front wheel	6 Segments 4.92 x 2.75 x .200
			Rear wheel	6 Segments 6.00 x 2.00 x .200
		Segments per shoe		
	Rear Shoe	Material	Moraine 703	
		Size (length x width x thickness)	Front wheel	12 Segments 9.84 x 2.75 x .320
			Rear wheel	10 Segments 10.0 x 2.00 x .320
		Segments per shoe		

BRAKES—PARKING

Type of control	
Location of control	
Operates on	
If separate from service brakes	Type (internal or external)
	Drum diameter
	Lining size (length x width x thickness)

FRAME or UNITIZED CONSTRUCTION

Type and description

SUSPENSION—GENERAL (See Supplemental page 19 for details on Air Suspension)*

Provision for car leveling	
Provision for brake dip control	
Provision for acc. squat control	
Special provisions for car leveling	
Shocks front rear	Type
	Make
	Piston dia.
Other special features	

SUSPENSION—FRONT

Type and description

* Air Suspension:
Air spring type
Compressor data
type
make
drive ratio

Normal operating pressures
spring rates
leveling data

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SUSPENSION FRONT (cont.)

Spring	Type	Independent Coil Spring	
	Material	SAE 9260 or 5160	
	Size (coil design height & I.D.; bar length x dia.)	11" Design Height - 4.05 I. D. 165" Long .688 Dia	
	Spring rate (lb. per in.)	310	
	Rate at wheel (lb. per in.)	89	
	Design load (lb. @ design height)	2340 @ 11"	2410 @ 11"
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	SAE 1070 1.000	1.032

STEERING

Manual (std., opt., NA)				Standard		N. A.		
Power (std., opt., NA)				Optional		Standard		
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt Type Optional				
		(std., opt., NA)						
Wheel diameter		Manual		16.00				
		Power		16.00				
Turning diameter	Outside front	Wall to wall (l. & r.)		46.4				47.5
		Curb to curb (l. & r.)		43.6				44.5
	Inside rear	Wall to wall (l. & r.)		26.0				26.9
		Curb to curb (l. & r.)		26.7				27.4
Outside wheel angle with inside wheel at 20°				Manual 18.2° Power 17.6°				
Manual	Gear	Type		Ball Nut		N. A.		
		Make		Saginaw Steering Gear		N. A.		
		Ratios	Gear	24.0:1		N. A.		
			Overall	33.38:1		N. A.		
	No. wheel turns		5.5 Lock to Lock		N. A.			
Power	Type (coaxial, linkage, etc.)		Gear Integral					
	Make		Saginaw Steering Gear					
	Gear	Type		Ball Nut				
		Ratios	Gear	17.5:1				
			Overall	21.74:1				
			Pump driven by		Belt from Crank			
	Number wheel turns		3.5 Lock to Lock					
	Linkage	Type		Forged				
Location (front or rear of wheels, other)		Rear						
Drag link (trans. or longit.)		Transverse						
Tie rods (one or two)		2						

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STEERING (cont.)

Steering Axis	Inclination at camber (deg.)		10° at +1° Camber
	Bearings (type)	Upper	Ball Joint
		Lower	Ball Joint
		Thrust	Ball Joint
Wheel alignment (range and preferred)	Caster (deg.)		Range - 1/2° to - 1 1/2°
	Camber (deg.)		Range - 1/4° to + 1/2°
	Toe-in (outside tread-inches)		1/8 to 1/4
	Steering spindle & joint type		Ball Joint
Wheel spindle	Diameter	Inner bearing	1.2498 - 1.2493
		Outer bearing	.7498 - .7493
	Thread size		3/4 - 20
	Bearing type		Tapered Roller

SUSPENSION—REAR

Type and description			4 Link Coil Spring		
Drive and torq. taken through (see page 17)			Arms		
Spring	Type		Coil		
	Material		SAE #5160 or 9260		
	Size (length x width, coil design height and I.D.; bar length & dia.)		9.00 Design Height - 5.50 I. D. 125" Long .586 Dia. 148" Long .580 Dia.		
	Spring rate (lb. per in.)		125 100		
	Rate at wheel (lb. per in.)		130 105		
	Design load (lb. at design height)		1040 @ 9" 1080 @ 9"		
	Mounting insulation type		Rubber		
	If leaf	No. of leaves		-	
		Inserts	Type and size	-	
			Material	-	
Shackle (comp. or tens.)		-			
Stabilizer	Type (link, linkless, frameless)		None		
	Material		None		
Track bar type			None		

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WEIGHTS

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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 (Serial) No. Location		L.H. Front Pillar Post
Engine No. Location		None
Theft protection - type		Key Type Starting
Vent window control method (crank, friction pivot)	Front	Crank
	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
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved One Piece
Side glass type (i.e., curved - tempered plate)		Curved
Side glass exposed surface area		1513.6 1863.7
Windshield glass exposed surface area		1532.2 1532.2
Backlight glass exposed surface area		1248.4 1095.0
Total glass exposed surface area		4294.2 4490.9

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

Power windows	Side Windows	Optional **
	Vent Windows	N.A. Optional
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		Optional - 4 Way or 6 Way Power
Reclining front seat back		N.A.
Front seat headrest		N.A.
Radios (specify type as well as availability)		Deluxe, Super Deluxe and AM-FM *
Rear seat speaker		Optional
Power Antenna		Optional
Clock		Optional Standard
Air Conditioner (specify type and availability)		Optional

* Optional

** 98 Series - Standard Electric 4 Windows on All Except 4 Door Sedan

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Cooling System	9	Speedometer	12
Crankcase Ventilation	7	Springs – Front & Rear Suspension	20, 21
Crankshaft	5	Valve, Engine	6
Cylinders and Cylinder Head	2	Stabilizer (Sway Bar) – Front & Rear	20, 21
Distributor – Ignition	11	Starting Motor	10
Electrical System	10, 11, 12, 13, 14	Steering	20, 21
Engine		Suppression – Ignition, Radio	11
Bore, Stroke, Displacement, Type	1, 2	Suspension – Front & Rear	19, 20, 21
Compression Ratio	1, 2	Switches	12
Firing Order, Cylinder Numbering	2, 11	Tailpipe	7
General Information, H.P. & Torque	1, 2	Thermostat, Cooling	9
Lubrication	6, 7	Timing, Engine & Valve	5, 6, 11
Power Teams	3	Tires	1, 18
Exhaust System	7	Toe in	21
Equipment Availability	22	Torque Converter	16
Fan, Cooling	9	Torque – Engine, Rated	1, 2, 3
Filters – Engine Oil, Fuel System	7, 8	Transmission – Types	1, 3, 8, 15, 16
Frame	19	Automatic	1, 3, 8, 15, 16
Front Suspension	19, 20	Manual & Overdrive	1, 3, 8, 15, 16
Fuel, Fuel Pump, Fuel System	1, 2, 8	Ratios	15, 16
Fuel Injection	1, 8	Tread	1
Fuses, Circuit Breakers	14	Trunk Luggage Capacity	1a
Generator and Regulator	10	Turning Diameter	20
Glass	22	Unitized Construction	19
Height (Lamps)	14	Universal Joints, Propeller Shaft	16, 17
Headroom – Body	1a	Valves – Intake & Exhaust	5, 6
Heights – Overall	1	Vibration Damper	5
Horns	12	Voltage Regulator	10
Horsepower – Brake	1, 2, 3	Water Pump	9
Ignition System	11	Weights – Shipping, Curb	23
Inflation – Tires	18	Wheel Alignment	21
Instruments	7, 12	Wheelbase	1
Kingpin (Steering Axis)	21	Wheels & Tires	18
Lamp Bulbs	13	Wheel Spindle	21
Lamp Height & Spacing	14	Widths – Car & Body	1
Legroom	1a	Windshield	22
Lengths – Overall	1	Windshield Wiper	12
Lifters, Valve	5		