

AMA Specifications – Passenger Car

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MANUFACTURER OLDSMOBILE DIVISION, G. M. C.	CAR NAME OLDSMOBILE	
MAILING ADDRESS LANSING, MICHIGAN	MODEL YEAR Starfire Convertible	ISSUED: 10-26-60 REVISED (e)

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 the standard model without optional equipment. Significant deviations are noted.
 - b. Specifications apply basically to 4-door sedan or equivalent.
 - c. 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.

3667 - Starfire - Convertible Coupe

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GENERAL SPECIFICATIONS

(All dimensions in inches unless otherwise indicated)

MODEL		Additional Information Page No.	3667
Wheelbase (L-101)		23	123"
Tread	Front (W-101)	24	61"
	Rear (W-102)	24	61"
Maximum Overall Dimensions	Length (L-103)	23	212.0"
	Width (W-103)	24	77.2"
	Height (H-101)	22	55.3"
Transmission— (Specify trade name - opt., not available)	Manual	13	N. A.
	Overdrive	14	N. A.
	Automatic	14	Hydra-Matic
Axle ratio	Manual	15	N. A.
	Overdrive	15	N. A.
	Automatic	15	3.42:1
Tire size		16	8.50 x 14
Engine	Type, no. cyl., valve arr.	2	V-8
	Fuel system (Carb., other)	6	Carburetor
	Bore and stroke	2	4 1/8 x 3 11/16
	Piston displ., cu.in.	2	394
	Std. compression ratio	2	10.25:1
	Max. bhp at engine rpm	2	330 @ 4600
	Max. torque at rpm	2	440 @ 2800

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ENGINE—GENERAL

Type, no. cyls., valve arr.	90°V8 - OH
Bore and stroke (nominal)	4.125 x 3.688
Piston displacement, cu. in.	394
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	1-8-7-3-6-5-4-2
Compres. ratio (nominal)	10.25:1
Cylinder Head Material	Cast Iron
Cylinder Sleeve—Wet, dry, none	None
Number of mounting points	Front One Rear Two
Engine installation angle	4°30'
Taxable $\frac{\text{Dia.}^2 \times \text{No. Cyl.}}{\text{horsepower } 2.5}$	54
Published max. bhp* @ eng. RPM	330 @ 4600
Published max. torque* (lb. ft. @ RPM)	440 @ 2800
Recommended fuel regular - premium	Premium
Idle speed (spec. neutral or drive)	Manual 460 Automatic 460

ENGINE—PISTONS

Material	Aluminum Alloy
Description and finish	Auto-Thermic, Cam Grind, Tin Plate, Steel Strut
Weight (piston only) oz.	27.76 oz.

* Max. bhp (brake horsepower) and max. torque corrected as defined by SAE Engine Test Code.

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POWER TRAINS
(Indicate whether standard or optional)

MODEL AVAILABILITY	ENGINE					TRANSMISSION	AXLE RATIO (Std. first)
	Displ. cu. in.	Carburetor	Compr. Ratio	BHP @ RPM	Torque @ RPM		
Starfire	394	4 bbl.	10.25:1	330 @ 4600	440 @ 2800		41:12 (3.42)

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ENGINE PISTONS (Cont.)

Clearance limits)	Top land		.028 - .034
	Skirt	Top	.00075 - .00225
		Bottom	.00075 - .00125
Ring groove depth	No. 1 ring		.2125 - .2195
	No. 2 ring		.2125 - .2195
	No. 3 ring		.2045 - .2075
	No. 4 ring		None

ENGINE—RINGS

Function (top to bottom)	No. 1, oil or comp.		Compression
	No. 2, oil or comp.		Compression
	No. 3, oil or comp.		Oil
	No. 4, oil or comp.		None
Compression	Description - material, type, coating, etc.		Cast Iron - Upper Ring Chrome Plated O. D. - Taper Face. Lower Ring Parco Lubrite - Taper Face - Interrupted Scraper Groove
	Width		#1 - .0775 - .078 #2 - .0925 - .0935
	Gap		.013 - .023
Oil	Description - material, type, coating, etc.		Spring Steel - Two Rails - Chrome Plated O. D. Spacer - Black Oxide
	Width		Rails - .0235 - .0250 Each Spacer .177 - .182
	Gap		.015 - .055
Expanders		None	

ENGINE—PISTON PINS

Material			S. A. E. #1016 Special
Length			3.126
Diameter			.9803 - .9807
Type	Locked in rod, in piston, floating, etc.		Full Floating
	Bushing	In rod or piston	Rod
		Material	GM# 4077 - M Bronze
Clearance	In piston		.0003 - .0005 Loose
	In rod		.0003 - .0005 Loose
Direction & amount offset in piston			.090 to R. H. of Cylinder Bore Centerline

ENGINE—CONNECTING RODS

Material			Steel - S. A. E. #1139
Weight (oz.)			34.55 oz.
Length (center to center)			6.998
Working	Material & Type		Moraine 400 Aluminum with GM 3874 Babbitt Overlay - Steel Backed
	Overall length		.821 - .831
	Clearance (limits)		.0005 - .0025
	End play		(.004 - .009 Preferred) .002 - .011 (2 Rods Per Crankpin)

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ENGINE--CRANKSHAFT

Material	S. A. E. #1145 Modified or S. A. E. #1046		
Vibration damper type	Rubber Absorption		
End thrust taken by bearing (No.)	Rear Upper and Lower		
Crankshaft end play	.004 - .008		
Main bearing	Material & type	#1-2-3-4 Steel Backed Aluminum Moraine 400 with GM 3874-M Babbitt Overlay. #5 Rear Steel Backed Durex 100A with GM 4176-M Babbitt Over.	
	Clearance	#1 & 2 .0005-.0021 #3 & 4 .0008-.0024 #5 Rear .0020-.0034	
	Journal dia. and bearing overall length	No. 1	3.00 x 1.068
		No. 2	3.00 x .818
		No. 3	3.00 x .818
		No. 4	3.00 x .818
		No. 5	3.00 x 1.69
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset	None	
Crankpin journal diameter		2.50	

ENGINE--CAMSHAFT

Location	Center		
Material	Alloy Cast Iron		
Bearings	Material	Steel Backed GM 4195-M Babbitt	
	Number	5	
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		S. A. E. #1140, 1118, 1141, 1146, GM 85M Steel or A. S. T. M. B-310 Sintered Iron
	Camshaft gear or sprocket material		Cast Iron
	Timing chain	No. of links	48
		Width	.844
		Pitch	.500

ENGINE--VALVE SYSTEM

Hydraulic lifters (Std, opt, NA)		Standard
Valve rotator, type (intake, exhaust)		No
Rocker ratio		1.8 to 1
Operating tappet clearance (indicate hot or cold)	Intake	None
	Exhaust	None
Timing marks on flywheel, damper, other		Crankshaft Balance

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ENGINE—VALVE SYSTEM (cont.)

Timing	Intake	Opens (^o BTC)	13 ^o	
		Closes (^o ABC)	71 ^o	
		Duration - deg.	264 ^o	
	Exhaust	Opens (^o BBC)	55 ^o	
		Closes (^o ATC)	29 ^o	
		Duration - deg.	264 ^o	
	Valve opening overlap		42 ^o	
Intake	Material		Thompson S. A. E. #3140 Steel - Eaton S. A. E. #8645 Steel	
	Overall length		4.999	
	Actual overall head dia.		1.875	
	Angle of seat & face		45 ^o	
	Seat insert material		None	
	Stem diameter		.3432 - .3427	
	Stem to guide clearance		.0010 - .0025	
	Lift		.460	
	Outer spring press. and length	Valve closed (lb. @ in.)	90# @ 1.837	
		Valve open (lb. @ in.)	182# @ 1.437	
	Inner spring press. and length	Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	
	Exhaust	Material		Thompson & Eaton - GM N82152 Steel
		Overall length		4.999
		Actual overall head dia.		1.562
		Angle of seat & face		45 ^o
		Seat insert material		None
Stem diameter		.3945 - .3940		
Stem to guide clearance		.0015 - .0030		
Lift		.437		
Outer spring press. and length		Valve closed (lb. @ in.)	90# @ 1.837	
		Valve open (lb. @ in.)	182# @ 1.437	
Inner spring press. and length		Valve closed (lb. @ in.)	None	
		Valve open (lb. @ in.)	None	

ENGINE—LUBRICATION SYSTEM

Type of lubrication (splash, pressure, etc.)	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)	35-45 at 50 M. P. H.
Oil pressure sending unit (elect. or mech.)	Electric
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, partial, other)	Full Flow
Filter replacement (element, complete)	Complete
Capacity of crankcase, less filter-refill (qt.)	4 Quarts
Oil grade recommended (SAE viscosity and temperature range)	Not Lower Than 32° F - S. A. E. 20 or 20 W As Low as 0° F. - S. A. E. 10 W Lower Than 0° F. - S. A. E. 5W
Engine Service Requirement (MM, MS, etc.)	MS or DG

ENGINE—EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)	Single with Cross - Over (Dual Optional)
Muffler No. & type (reverse flow, straight thru, separate resonator)	Reverse Flow (Separate Resonator)
Exhaust pipe dia. (O.D. Branch wall thickness)	2.0" O.D. x .090
Main	2.25 " O.D. x .036 & .048 Laminated
Tail pipe diameter (O.D. & wall thickness)	2.25" O.D. x .054

ENGINE—FUEL SYSTEM

(See Supplement to Page 6 for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.	Carburetor
Fuel Tank Capacity (gals.)	20 Gallons
Filler location	Left Rear Quarter Panel
Fuel Pump Type (elec. or mech.)	Mechanical
Locations	Engine Front Cover
Pressure range	5 lbs. to 6 lbs. @ 16" Above outlet @ 1800 Camshaft R. P. M.
Vacuum booster (std., optional, none)	Optional
Fuel Filter Type	Accreted & Saran Type
Locations	Fuel Pump & Gas Tank
Carburetor Make & Model No.	Rochester 4 GC
Number of carbs., bbls. per carb. & type	Single Quad.
Barrel size	1.5625 Prim. - 1.6875 Sec'd.
Choke type	Automatic
Intake manifold heat control (exhaust or water)	Exhaust
Air clnr. type	Paper Element
Optional	None

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ENGINE—COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)		Pressure System		
Radiator cap relief valve pressure		15 Pounds		
Circulation thermostat	Type (choke, bypass)	Choke		
	Starts to open at (°F)	167° to 172°		
Water pump	Type (centrifugal, other)	Centrifugal		
	Number of pumps	One		
	Drive (V-belt, other)	V-Belt		
	Bearing type	Ball		
By-pass recirculation type (internal, external)		Internal		
Radiator core type (cellular, tube and fin, other)		Tube and Center		
Cooling system capacity	With heater (qt.)	20.25		
	Without heater (qt.)	19.25		
	Opt. equipment-specify (qt.)	1.65 Additional for Air Conditioned Cars		
Water jackets full length of cylinder (yes, no)		Yes		
Water all around cylinder (yes, no)		Yes		
Radiator hose	Lower	Number and type (molded, straight)	S. A. E. 20 R 4 Class R - Grade 1A Coolant Hose One - Molded Modified	
		Inside diameter	1.75	
	Upper	Number and type (molded, straight)	S. A. E. 20 R4 Class R - Grade 1A One-Molded-Modified	
		Inside diameter	1.50	
	By-pass	Number and type (molded, straight)	None	
		Inside diameter	None	
	Fan	Number of blades & Spacing		Four - 76° and 104° (Six-Air Conditioned Cars)
		Diameter		18 Inch (19 Inch - Air Conditioned Cars)
Ratio-fan to crankshaft rev.		.817 to 1 (1.133 to 1 Air Conditioned Cars)		
Fan cutout type		None (Fan Clutch-Air Conditioned Cars)		
Bearing type		Ball		
*Drive belts (indicate belt used by letter)	Fan		A	
	Generator		B	
	Water Pump		C	
	Power Steering		D	
	Air Conditioning		E	

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Drive Belt Dimensions	A	B	C	D	E
Angle of V	36°	36°	36°	36°	36°
Nominal length (SAE)	59.50	59.50	59.50	64.50	65.90
Width	.380	.380	.380	.380	.380

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 MODEL 32  35  38

ELECTRICAL—SUPPLY SYSTEM

Battery	Make and Model	Delco Remy 462	Delco Remy 562	Delco Remy 562
	Voltage Rtg. & Total Plates	12 V - 9 Plates	12 V 11 Plates	12V 11 Plates
	SAE Designation & Amp Hr. Rtg	3 KMA 62AH	3KMB 70 AH	3 KMB 70 AH
	Location	Engine Compartment, Front l. h. side		
	Terminal grounded	Negative		
Generator	Make	Delco Remy		
	Model	1102217		
	Type	Shunt Field		
	Ratio—Gen. to Cr/s rev.	2.24		
	Gen. cut-in (hot)—engine rpm	525		
Regulator	Make	Delco Remy		
	Model	1119253		
	Type	Current and Voltage Regulated		
	Cutout relay	Closing voltage @ generator rpm	11.8 to 13.5 Volts (Adjust to 12.8 Volts)	
		Reverse current to open	- Not Specified -	
	Regulated	Voltage	13.8 to 14.7 Volts	
		Current	32 to 37 Amps (Adjust to 35 Amps)	
	Voltage test conditions	Temperature	125° F	
		Load	1/4 OHM Res. in Series with Bat. Term.	
		Other	Run Engine for 15 Minutes 1600 RPM	

ELECTRICAL—STARTING SYSTEM

Starting motor	Make	Delco Remy	Delco Remy	Delco Remy
	Model	1107665	1107776	1107776
	Rotation (drive and view)	Clockwise		
	Engine cranking speed	150		
	Test conditions	80° F		
	Lock test	Amps	Not Specified	Not Specified
		Volts	" "	" "
		Torque (lb. ft.)	" "	" "
	No load test	Amps	65 to 100	80 to 120
		Volts	10.6	10.6
		RPM (min.)	3600	3900
Motor control	Switch (solenoid, manual)	Solenoid	Solenoid	Solenoid
	Starting procedure	Turn Ignition Key Against Spring Load, to Full Clockwise Position. Cars with Hydramatic Must Be On Park or Neutral to Start.		

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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		5

ELECTRICAL—IGNITION SYSTEM

Coil	Make		Delco Remy
	Model		
	Amps	Engine stopped	4.5
		Engine idling	2.0
Distributor	Make		Delco Remy
	Model		1110968
	Cent'gal adv. in crankshaft degrees @ engine rpm (nominal)	Start (rpm)	0 - 4° @ 800 RPM (Engine)
		Intermediate points deg. @ rpm	13.5 to 17.5 @ 2000 RPM (Engine) 16° to 20° @ 2400 RPM
		Max deg. @ rpm	22° to 26° @ 4400 RPM
	Vacuum adv. in crankshaft degrees @ in. Hg. (nominal)	Start (in Hg)	8" to 10" HG
		Intermediate points, deg @ in Hg	11° to 18° @ 16" HG
		Max. deg. in. Hg.	20.5 to 23.5° @ 21" HG
	Breaker gap (in.)		.016
	Cam angle (deg.)		28 to 32°
Timing	Breaker arm tension (oz.)		19 to 23 oz.
	Crankshaft deg. @ rpm.		5 BTC @ 850 RPM - Vacuum Line Disconnected
	Mark location		Vibration Dampener
	Cylinder numbering system (see page 2)		Right Bank 2-4-6-8: Left Bank 1-3-5-7 Front to Rear as Viewed from Drivers Seat
Spark Plug	Firing order (see page 2)		1-8-7-3-6-5-4-2
	Make and model		AC 44
	Thread (mm)		14 MM
	Tightening torque (lb. ft.)		23 - 28 Ft.
Cable	Gap		.030
	Conductor type		Cone
	Insulation type		Neoprene
	Spark plug protector		Silicone

ELECTRICAL—SUPPRESSION

Locations & type	Resistance Cone Spark Plug Leads and Coil Lead. By Pass Condensers at Generator, Regulator and Coil on Radio Equipped Cars.
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MODEL 3667

ELECTRICAL—INSTRUMENTS AND SWITCHES

Speed-ometer	Make	AC.
	Trip odometer (yes, no)	No
Charge indicator—type		Indicator Lamp
Temperature indicator—type		" "
Oil pressure indicator—type		" "
Fuel indicator—type		Gauge
Other		Tachometer (Electrical) Indicator Lamp
Ignition switch	Identify positions in order and circuits controlled	1 Accessory On, Ignition Off 2 All Off - Lock Position Run - 3 Accessory On, Ignition On through Resistor - Start - 4 Accessory Off, Ignition Direct, Solenoid On
	Provision for illumination	Yes
	Location	Instrument Panel Right of Driver
Main lighting switch	Identify positions and lamps controlled	1 Park, Tail, Instrument, License Lt. 2 Headlamps, Instrument, License Lt. Rotate Control Dims Instrument Lts. -
Other light switches	Locations and lamps controlled	Foot Dimmer On L. H. Toe Pan - Controls (Headlamps Hi and Lo Beam) Courtesy Lt. On Instrument Panel Overhang Dome Lt.
Other switches	Locations and devices controlled	
Windshield wiper	Make	Delco Appliance Div.
	Type	Two Speed
	Vacuum booster provision	No.
	Washer provision	Yes
Horn	Type	Vibrator
	Number used	2
	Amp draw (each)	8 - 10 - 11.5 Volts

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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.
Indicate accessories which are not standard equipment by an asterisk following the numbers.

Headlamps & arrangement		Dual Head Lt. 2-5948502 & 2-5948501
Headlamp beam indicator		57
Parking		2 - 1034
Tail		2 - 1034
Stop		2 - 1034
Direction signal	Front	2 - 1034
	Rear	2 - 1034
	Indicator	2 - 57
License plate		1 - 67
Instrument		7 - 57
Ignition lock		1 - 53
Back up		2 - 1073
Dome		N. A.
Clock		1 - 57
Radio		1 - 1893
Glove compartment		1 - 57
Upper Beam		1 - 53
Gen. Ind.		1 - 57
Oil "P" Ind.		1 - 57
Temp. Hi		1 - 57
Temp Lo		1 - 57
Ash Tray		1 - 53
Shift Ind.		1 - 53
Park Brake Lt.		1 - 57
Under Hood Lt.		1 - 89
Trunk Lite		1 - 89
Heat Cont.		2 - 57
Courtesy Lite ^o		2 - 68
Safety Sent.		1 - 53
Rear Courtesy Lts. (Convertible)		2 - 68

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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	20 CB (A)
Headlamp beam indicator	Same as (A)
Parking lamp	Same as (A)
Tail lamp	SFE 20 (B)
Stop lamp	AGC 25 (C)
Direction indicator	SFE 9 (D)
License plate lamp	Same as (B)
Instrument lamp	AGA 3 (E)
Ignition lamp	Same as (E)
Back up lamp	SFE 9 (F)
Dome lamp	Same as (C)
Clock	AGA 2
Clock lamp	Same as (E)
Radio	AGN 4 (7.5 on Super Deluxe Radio)
Glove compartment lamp	Same as (B)
Wiper	SFE 20
Cigar Ltr.	SFE 20
Ind. Lts.	Same as (F)
Fuel Gauge	Same as (F)
Park Brk. Lt.	Same as (F)
Under Hood Lt.	Same as (B)
Trunk Lt.	Same as (B)
Courtesy Lt.	Same as (C)
Heat Cont. Lt.	Same as (E)
Heater / AC	SFE 20

ELECTRICAL—LOCATION OF OUTSIDE LAMPS

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Height above ground to center of bulb	Tail	Lowest	24.88
		Highest	
	Stop		24.88
	Backup		14.56
	License, rear		18.28
	Directional	Front	16.21
		Rear	24.88
	Headlamp	Inside	26.11
		Outside*	26.07
Distance from C/L of car to center of bulb	Tail	Inside	28.70
		Outside	28.70
	Stop		28.70
	Backup		19.55
	License, rear		On C/L
	Directional	Front	27.52
		Rear	28.70
	Headlamp	Inside	22.33
		Outside*	30.45

* If single headlamps are used enter here.

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DRIVE UNITS—CLUTCH (Manual Transmission)

Make & type		N. A.
Type pressure plate springs		N. A.
Effective plate pressure (lb.)		N. A.
Dia. of clutch driven discs		N. A.
Clutch lining	Material	"
	Outside & inside dia.	"
	Total eff. area (sq.in.)	"
	Thickness	"
	Engagement cushioning method	"
Release bearing	Type & method of lubrication	"
Original siping	Methods: springs, friction material	"

DRIVE UNITS—TRANSMISSIONS

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

DRIVE UNITS—MANUAL TRANSMISSION

Number of forward speeds		N. A.
Transmission ratio	In first	
	In second	
	In third	
	In fourth	
	In reverse	
Synchronous meshing, specify gears		
Shift lever location		
Lubricant	Capacity (pt.)	
	Type recommended	Multipurpose
	SAE viscosity number	80
	Summer	80
	Winter	80
	Extreme cold	80

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DRIVE UNITS—MANUAL TRANSMISSION WITH OVERDRIVE N. A.

For transmission data see manual transmission section

Overdrive	Type (planetary or other)		
	Manual lockout (yes, no)		
	Downshift accelerator control (yes, no)		
	Minimum cut-in speed		
	Gear ratio		
	Lu- bri- cant	Capacity (pt.) (Overdrive only)	
		Separate filler (yes, no)	
		Type recommended	
		SAE viscosity number	Summer
			Winter
			Ext. cold

DRIVE UNITS—AUTOMATIC TRANSMISSION

Trade name		Hydra-Matic
Type describe		Controlled Coupling with Accel-A-Rotor
Method of Selection (Lever, Push Button or other)		Lever on Floor Console
Selector Pattern		P N D S L R
List gear ratios Selector Pattern and indicate which are used in each selector position		1st - 3.5581:1 (Gears 2.9677:1) Drive, Super & Low 2nd - 1.5645:1 D & S 3rd - Direct D & S R - 3.5314:1 (Gears 2.4857:1)
Max. upshift speeds—drive range		1 - 2 @ 36 MPH 2 - 3 @ 77 MPH
Max. kickdown speeds—drive range		2 - 1 @ 20 MPH 3 - 2 @ 65 MPH
Torque converter	Number of elements	None
	Max. ratio at stall	None
	Type of cooling (air, water)	Water
Lubricant	Capacity—refill (pt.)	11 Pints
	Type recommended	Type A Automatic Transmission Fluid with Suffix A
Special transmission features		Accel-A-Rotor Increases Starting Ratio in 1st & Reverse as Indicated.

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DRIVE UNITS—PROPELLER SHAFT

Number used		One	
Type (exposed, torque tube)		Exposed	
Outer diameter x length* x wall thickness	Manual transmission	None	
	Overdrive transmission	None	
	Automatic transmission	3.25 "Dia. x 55.58" x .065	
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	
	Leaning	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 - (Incl. limited slip differential)		
Drive Pinion Offset		1.75
No. of differential pinions		2
Gear ratio and No. of teeth	Manual transmission	N. A.
	Overdrive transmission	None
	Automatic transmission	3.42:1 (41:12)
Ring gear pitch diameter & O.D.		9.25
Pinion adjustment (shim, other)		Shim
Pinion bearing adj. (shim, other)		Coll. Spacer
Wheel bearing type		Prepack Ball
Lubricant	Capacity (pt.)	5.38
	Type recommended	Multi-Purpose
	SAE vis-cosity number	Summer
		90
		Winter
		90
	Extreme cold	90

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

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DRIVE UNITS—WHEELS

Type & material	Drop Center - Welded Wheels
Rim (size and flange type)	14 x 16K
Attachment	Type (bolt or stud) Stud
	Circle diameter 500
	Number and size 5 x 1/2

DRIVE UNITS—TIRES

8.50 x 14-4 Ply Star Streak Styling

Standard (List option below)	Size & ply	
	Type - Nylon, etc.	Rayon
Rev/mile at 30 mph.		735
Inflation press.(cold)	Front	22
	Rear	22

BRAKES—SERVICE

Type (duo-servo, balanced, self adjusting, etc.)	Duo - Servo
Power brake make & type (remote, integral, etc.)	Moraine & Bendix (Integral)
Effective area (sq. in.)*	156.8
Gross lining area (sq. in.)**	191.7
Swept drum area (sq. in.)***	310.0
Percent brake effectiveness—front	56%
Drum	Front 11.0
	Rear 11.0
Type and material	Centrifuse Cast Iron in Steel Shell
Bonded or riveted	Riveted
Material	Marshall 4641 Pri.
Front Shoe	Size (length x width x thickness) Front wheel 12 x 2.50 x .25
	Rear wheel 12 x 2.00 x .25
Segments per shoe	One
Rear Shoe	Material Marshall 9795 D
	Size (length x width x thickness) Front wheel 9 x 2.50 x .25
	Rear wheel 9 x 2.00 x .25
Segments per shoe	One
Wheel cyl-inder bore	Front 1 1/8
	Rear 1
Master cylinder bore	1 Power
Available pedal travel	3.6
Line pressure at 100 lb. pedal load	700 @ 50 lb. Pedal Load
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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BRAKES—PARKING

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

FRAME or UNITIZED CONSTRUCTION

Type and description	Box Section Side Rails and 4 Cross Bars (Guard-Beam Frame)
----------------------	---

SUSPENSION—GENERAL (See Supplemental page 17 for details on Air Suspension)* Same

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 air jacking	None
Shock absorber front & rear	Direct Acting
Type	Delco
Make	1 Inch
Piston dia.	
Other special features	None

SUSPENSION—FRONT

Type and description	Independent Coil Spring
----------------------	-------------------------

(Continued)

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Air Suspension:
Air spring type
Compressor data
type
make
drive ratio
Normal operating pressures
spring rates
leveling data

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MODEL

SUSPENSION FRONT (cont.)

Spring	Type	Independent Coil Spring
	Material	SAE 9260
	Size (coil design height & I.D.; bar length x dia.)	11" Design Height - 4.05 F. D. 181" Long .703 Dia.
	Spring rate (lb. per in.)	300
	Rate at wheel (lb. per in.)	100
	Design load (lb. @ design height)	2430 @ 11"
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	.906

STEERING

Mechanical (std., opt., NA)				N. A.	
Power (std., opt., NA)				Standard	
Wheel diameter				17.00	
Turning diameter	Outside front	Wall to wall (l. & r.)		48.0	
		Curb to curb (l. & r.)		45.5	
	Inside rear	Wall to wall (l. & r.)		28.5	
		Curb to curb (l. & r.)		29.4	
Outside wheel angle with inside wheel at 20°					
Mechanical	Gear	Type		N. A.	
		Make		N. A.	
		Ratios	Gear	"	
		Overall		"	
	No. wheel turns		"		
Power	Type (coaxial, linkage, etc.)		Gear Integral		
	Make		Saginaw Steering Gear		
	Trade name		Roto - Matic		
	Gear	Type		Ball Nut	
		Ratios	Gear	17.5	
			Overall	21.8	
	Pump driven by		Belt from Crank		
	Number wheel turns		3.5		
	Linkage	Type		Forge	
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	"
		Thrust	"
Wheel alignment (range and preferred)	Caster (deg.)		Range 0 to 1° Negative
	Camber (deg.)		Range - .250 to + .750
	Toe-in (outside tread-inches)		.0 to .125
	Steering spindle & joint type		Ball Joint
Wheel spindle	Diameter	Inner bearing	1.3736 / 1.3741
		Outer bearing	.8427 / .8432
	Thread size		13/16 - 16
	Bearing type		Ball and Cone

SUSPENSION—REAR

Type and description			4 Link Coil Spring			
Drive and torq. taken through (see page 15)			Arms			
Spring	Type		Coil			
	Material		SAE #5160			
	Size (length x width, coil design height and I.D.; bar length & dia.)		8.38 5.50 I.D. x 130.00 x .580			
	Spring rate (lb. per in.)		115#			
	Rate at wheel (lb. per in.)		115#			
	Design load (lb. at design height)		1090			
	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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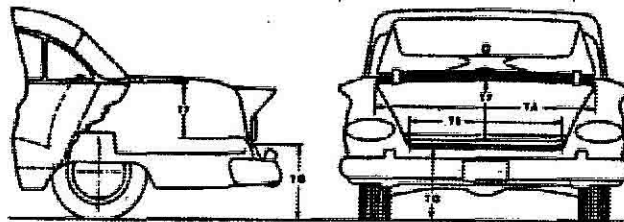
MAKE OF CAR OLDSMOBILE MODEL YEAR 1961 DATE ISSUED 10-26-60 REVISED _____

BODY—GENERAL DEFINITIONS

NOTE: Included in the dimension definitions listed on this and the following pages are those which have been adopted by S.A.E. These are indicated by a number following the type of dimension, e.g. L 3. Additional dimensions have been added by the AMA Specifications Body Subcommittee for inclusion in the Questionnaire. These are shown by an additional letter, e.g., HA. Symbol "a" added as suffix to SAE dimensions indicates an AMA modification. The dimensions are developed from the following basic points:

1. Body Dimensions are for all basic body models as indicated.
2. All interior dimensions are taken 15" outboard of car centerline (C/L) unless otherwise stated.
3. Front and rear seat free "A" points are taken 5" forward of vertical tangent to seat back 15" from center of body.
4. Depressed "A" point is the lowest point on the seat cushion depressed contour.
5. Front seat is in full down and normal rear position.
6. Unless otherwise specified all exterior height dimensions are taken with a full design load which consists of 5 passengers, 300 lbs. front, 450 lbs. rear; includes spare wheel, tire and tools, and full complement of gas, oil, water and tires to recommended pressure, etc.
7. DLO (Daylight opening - pages 22 & 24).
8. For further clarification of definitions see SAE Aeronautical—Automotive Drawing Standards, Section E-1.

BODY—TRUNK DIMENSIONS



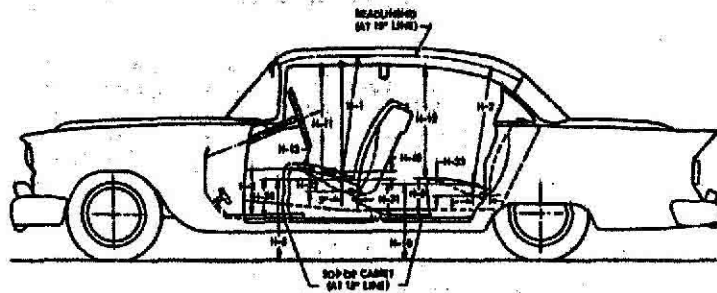
MODEL	3667
Usable trunk luggage capacity (See Section E-1 of SAE Automotive Drawing Standards)	14.342
Total trunk volume in cu. ft. with spare tire in place	28.7
TA—Width across the top	54.2
TB—Width across the bottom	44.2
TF—Vertical dimension at C/L from bottom to top of opening	8.9
TG—Vertical height from ground to trunk lower opening (normal surface of outside sheet metal - loaded)	26.0
Position of spare tire stowage	Horizontal
Method of holding lid open	Torque Rod Hinge

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BODY—HEIGHT DIMENSIONS—INTERIOR



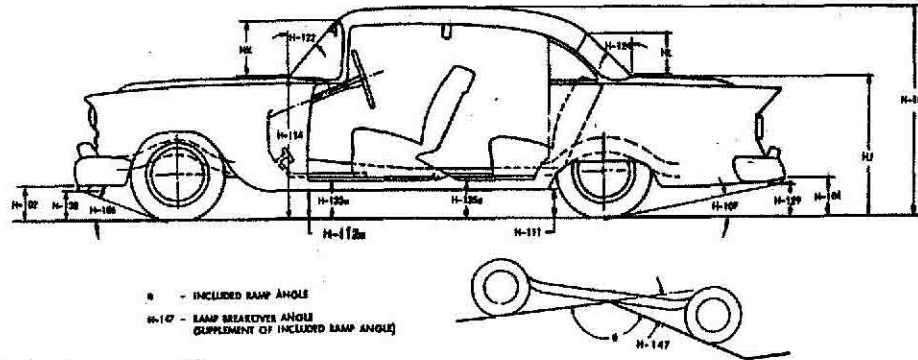
MODEL	3667
H1. Front headroom. Free "A" pt. to headlining at 8° back of vertical. (For "A" pt. see note 3, page 20)	34.0
H2. Rear headroom. Free "A" pt. to headlining at 8° back of vertical	33.4
H3. Front cushion height above floor carpet at front edge of cushion. (Ignore risers)	12.5
H5. Free "A" pt. to ground, front. Measured vertically	21.1
H8. Rear cushion height above floor carpet at front edge of cushion. (Ignore risers)	13.1
H10. Free "A" point to ground rear. Measured vertically	19.4
H11. Entrance, front. Free "A" point to bottom of windcord, vertical	27.9
H12. Entrance, rear. Top of cushion to bottom of windcord at front edge of rear seat	-
H13. Steering wheel clearance to seat cushion taken on arc (wheel turned for min. clearance)	4.4
H30. Free "A" point reference height, front. Vertical dimension to SAE horizontal reference line	11.3
H31. Free "A" point reference height, rear. Vertical dimension to SAE horizontal reference line	11.5
H32. Front seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	4.4
H33. Rear seat cushion deflection. Vertical dimension from free "A" point to depressed "A" point	5.0
H45. Front seat maximum vertical rise at free "A" point	0.5

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BODY—HEIGHT DIMENSIONS—EXTERIOR



NOTE: For dimensions to lamps see page 12.

MODEL	3667
H101. Overall height, full design load	55.3
HB. Overall height, curb weight	56.39
H102. Front bumper bottom to ground at normal section, min. height	11.76
H104. Rear bumper bottom to ground at normal section, min. height	10.97
H106. Angle of approach. To interfering point on bumper, guard, other	29° 5'
H107. Angle of departure. To interfering point on bumper, guard, other	12° 15'
H111. Body Sill to Ground-Rear. Vertical dimension measured from bottom of body sill (rocker panel), excluding any flanges, to ground at front of rear wheel opening.	8.5
H112a. Body Sill to Ground-Front. Measured vertically at foremost point of body sill (rocker panel), excluding flanges and front fender.	8.7
H114. Hood at rear to ground. Vertical dimension C/L, excluding molding, at hood opening line at cowl	38.1
H122. Windshield normal slope angle to vertical line on car C/L	54.7°
H124. Backlight normal slope angle to vertical line on car C/L	56° 30'
H128. Bottom of front bumper guard to ground	No Guard
H129. Bottom of rear bumper guard to ground	No Guard
H133a. Bottom of front door to ground, min. dimension	11.9
H135a. Bottom of rear door to ground, min. dimension	No Rear Door
H147. Ramp breakover angle	11° 30'
H153. Min. road clearance at rear axle	6.53
H156. Min. road clearance and location	5.84 **
HJ. Deck at rear window to ground	37.8
HK. Windshield DLO*. Vertical height at C/L	20.2
HL. Back light DLO*. Vertical height at C/L	11.7

* See Note, page 20

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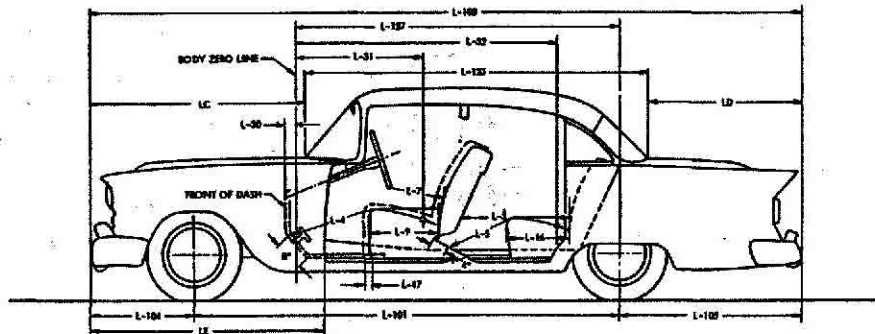
** Location: - Frame in Front of Right Rear Wheel

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BODY—LENGTH DIMENSIONS



MODEL		3667
interior	L3. Rear compartment room. Back of front seat back to front of rear seat back	27.0
	L4. Leg room, front. Ball of foot to top of seat to seat back	44.6
	L5. Leg room, rear. Ball of foot to top of seat to seat back	38.6
	L7. Steering wheel clearance to seat back taken on arc	13.6
	L9. Front seat depth. Front edge to vert. tan. of seat back	18.8
	L16. Rear seat depth. Front edge to vert. tan. of seat back	18.0
	L17. Maximum "A" point horizontal travel with normal seat adjustment	4.5
	L30. Vertical body zero line to actual front of dash. Measured horizontally*	.54
	L31. Vertical body zero line to free "A" point, front	40.6
	L32. Vertical body zero line to free "A" point, rear	74.0
Exterior	L101. Wheelbase	123.0
	L103. Overall length. Incl. bumper guards if standard equipment	212.0
	L104. Overhang, front. Include bumper guards if stand. eq.	32.6
	L105. Overhang, rear. Include bumper guards if stand. eq.	56.5
	L123a. Body upper structure length at C/L, excl. molding	105.2
	L127. Vertical body zero line to centerline of rear wheels	101.85
	LC. Front of car to base windshield, excl. molding	59.0
	LD. Rear of car to base of rear window or upper structure, excl. molding	49.5
	LE. Front of car to front edge of front door	69.31

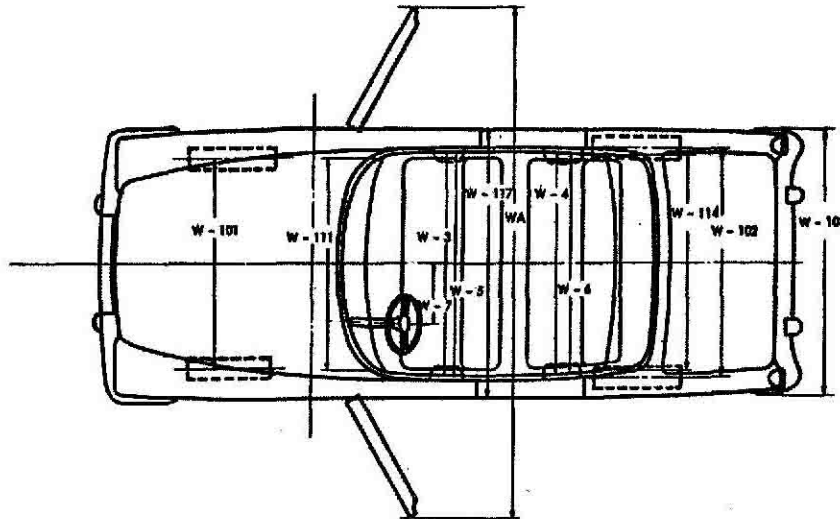
* Precede figure with minus sign if front of dash is to rear of body zero line.

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BODY—WIDTH DIMENSIONS



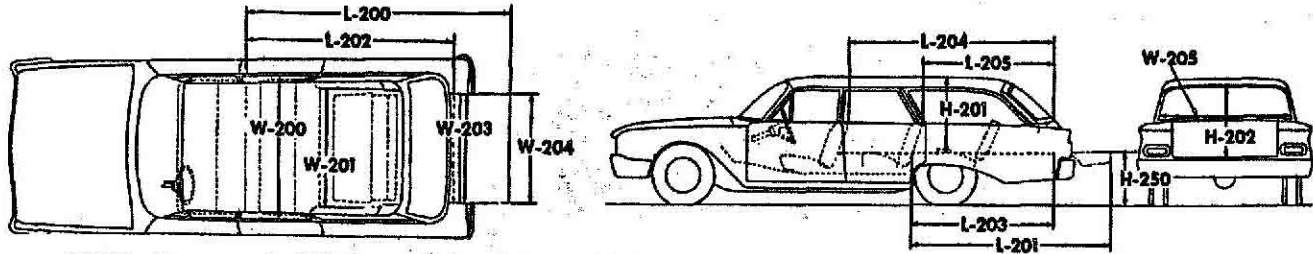
MODEL		3667
Interior	W3. Front shoulder room, at garnish molding height or nearest interference 5" forward of seat back	58.9
	W4. Rear shoulder room, at garnish molding height or nearest interference 5" forward of seat back	51.0
	W5. Front hip room, at top of seat 5" forward of vert. tan. to seat back	63.4
	W6. Rear hip room, at top of seat 5" forward of vert. tan. to seat back	51.5
	W7. Steering wheel center (on surface plane of wheel) to C/L of body	15.9
Exterior	W101. Front tread at ground	61.0
	W102. Rear tread at ground	61.0
	W103. Max. overall width of car incl. bumpers or moldings (specify location).	77.2
	WA. Max. overall width of car with doors open (2 & 4 door)	158.1
	W111. Windshield DLO, max. width	57.0
	W114. Back window DLO, max. width	51.75
	W116a. Maximum overall sheet metal width excl. hardware and applied molding (specify location)	76.3
	W117. Max. body width at center pillar, less hardware and applied moldings	No Center Pillar

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STATION WAGON—CARGO SPACE DIMENSIONS



NOTE: Front seat in full down and normal rear position for all measurements. Lengths and heights measured at car centerline.

MODEL	
L200	Floor length from back of front seat at floor level to end of lowered tail gate
L201	Floor length from back of second seat at floor level to end of lowered tail gate
L202	Floor length from back of front seat at floor level to inside of closed tail gate
L203	Floor length from back of second seat at floor level to inside of closed tail gate
L204	Minimum horizontal distance from top rear of front seat back to inside of top of tail gate
L205	Minimum horizontal distance from top rear of second seat back to inside of top tail gate
W200a	Maximum width of cargo space at floor, specify location
W201	Minimum distance between wheel houses at floor level
W203	Rear end opening width at floor
W204	Rear end opening width at top of tail gate
W205	Maximum width of rear opening above raised tail gate
H201	Maximum height, floor covering to headlining at centerline of rear axle
H202	Maximum height of rear opening, tail and lift gates open
H250	Platform height measured from ground to top of tail gate floor covering at rear most edge of tail gate, curb weight
Third Seat, facing direction	
Tail and lift gates or sliding glass	
Cargo volume index (cu. ft.) W4 (P. 24) X L204 X H201 1728	

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MODEL 3667

BODY—MISCELLANEOUS INFORMATION

Drs. hinged (front, rear)	Front doors	Front
	Rear doors	
Type of finish (lacquer, enamel, other)		Lacquer
Hood hinge location (front, rear)		Rear
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle (Serial) No. Location		Front Pillar Post
Engine No. Location		None
Theft protection - type		Key Type Starting System
Vent window control method (crank, friction pivot)	Front	Power
	Rear	Power
Seat cushion type	Front	Bucket Seat Zig - Zag
	Rear	Zig - Zag
Seat back type	Front	Zig - Zag
	Rear	Zig - Zag
Windshield type (single curved, compound curved, other)		Compound Curved
Rear window type (flat, curved, one piece, three piece)		Flat - 1 Piece
Side glass type (curved, flat)		Flat
Side glass exposed surface area		1212.6
Windshield glass exposed surface area		1525.6
Backlight glass exposed surface area		1218.8
Total glass exposed surface area		3957.0

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MAJOR OPTIONAL ITEMS - WEIGHTS

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