AMA Specifications—Passenger Car

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MANUFACTURER	CAR NAME	
Oldsmobile	F-85, Cutlass, Cutlass Supreme	
MAILING ADDRESS	MODEL YEAR	ISSUED 6/1/67
Lansing	1968	REVISED (•)

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

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BODY – TYPES AND STYLE NAMES – Body type, number of passenger & style names; use manufacturer's code for series & body style.

	L-6		V-8		
Body Type	Standard	Cutlass	Standard	Cutlass	Supreme
Club Coupe	33177	33577	33277	33677	- - -
4 Dr. Sedan	33169	33569	33269	33269	34269
4 Dr. Hardtop	- - -	33539	- - -	33639	34239
Station Wagon (2 seat)	- - -	33535	- - -	33635	- - -
Hardtop Coupe	- - -	33587	- - -	33687	34287
Convertible	- - -	33567	- - -	33667	- - -

Vista Cruiser Station Wagon and 4-4-2 - see separate AMA

5 passengers with bucket seats.
6 passengers with bench seats.

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

All dimensions to ground are for comparative purposes only and are shown with vehicle load of two passengers in front and three in rear, except where otherwise noted.

MODEL		SAE Ref. No.	L6 33169	33269	34269
WIDTH					
Track – Front		W101	59.0	59.0	59.0
Track – Rear		W102	59.0	59.0	59.0
Maximum overall car width		W103	76.8	76.8	76.8
Body width at No. 2 pillar		W117	74.1	74.1	74.1
LENGTH					
Body "O" to front of dash		L 30	0.0	0.0	0.0
Wheelbase		L101	116	116	116
Overall car length		L103	205.6	205.6	205.6
Overhang – front		L104	41.0	41.0	41.0
Overhang – rear		L105	48.6	48.6	48.6
Body upper structure length		L123	NA	NA	NA
Body "O" line to ℄ of rear wheel		L127	99.6	99.6	99.6
Body "O" line to w/s cowl point		L130	NA	NA	NA
HEIGHT					
Overall height		H101	53.5	53.5	53.5
Cowl height		H114	NA	NA	NA
Deck height		H138	NA	NA	NA
Rocker panel – front	To zero **	H112	3.8	3.8	3.8
	From front wheel ℄				
Rocker panel – rear	To zero	H111	3.3	3.3	3.3
	From rear wheel ℄				
Windshield slope angle		H122	53.0	53.0	53.0
GROUND CLEARANCE					
Bumper to ground – front		H102	13.3	13.3	13.3
Bumper to ground – rear		H104	12.9	12.9	12.9
Angle of approach		H106	24°42'	24°42'	24°42'
Angle of departure		H107	18°45'	18°45'	18°45'
Ramp breakover angle		H147	12°6'	12°6'	12°6'
Min. running clearance (Specify)*		H156	5.32	5.32	5.32

* From low point on exhaust pipe to ground.

** Zero line to ground is 4.6".

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CAR AND BODY DIMENSIONS

See Pages 25, 26 for SAE Dimension Definitions

(All dimensions in inches unless otherwise indicated)

MODEL	SAE Ref. No.	33169	33269	34269
FRONT COMPARTMENT				
Effective head room	H61	38.9	38.9	38.9
Max. eff. leg room – accelerator	L34	42.8	42.8	42.8
H Point to Heel point	H30	8.1	8.1	8.1
H Point travel	L17	4.8	4.8	4.8
Shoulder room	W 3	58.3	58.3	58.3
Hip room	W 5	59.5	59.5	59.5
Upper body opening to zero	H50	44.3	44.3	44.3
REAR COMPARTMENT				
H Point couple distance	L50	32.8	32.8	32.8
Effective head room	H63	37.1	37.1	37.1
Min. effective leg room	L51	35.1	35.1	35.1
H Point to Heel point	H31	10.5	10.5	10.5
Min. knee room	L48	2.3	2.3	2.3
Rear Compartment room	L 3	26.1	26.1	26.1
Shoulder room	W 4	57.7	57.7	57.7
Hip room	W 6	59.4	59.4	59.4
Upper body opening to zero	H51	43.8	43.8	43.8
LUGGAGE COMPARTMENT				
Usoble luggage capacity	V 1	17.5	17.5	17.5
Liftover height to zero	H195	22.9	22.9	22.9
Position of spare tire storage		Lays Flat on Right Side of Trunk		
Method of holding lid open		Counter Balanced - Torsion Bar		
STATION WAGON – THIRD SEAT				
Shoulder Room	W85	NA		
Hip room	W86			
Effective leg room	L86			
Effective head room	H86			
Seat facing direction				
STATION WAGON – CARGO SPACE				
Cargo length at floor – front seat	L202	NA		
Cargo length at belt – front seat	L204			
Cargo width – wheelbase	W201			
Opening width at belt	W204			
Maximum cargo height	H201			
Rear opening height	H202			
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2			

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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		
33100 Std. 33500 Std.	250	1 Bbl.	8.50	155 @ 4200	240 @ 2000	Fully Synchronized 3-Speed (Std) Jetaway (Opt.)	2.78-3.08(a)-3.23(b) 2.78-3.08(a)-2.23(b)
33200 Std. 33600 Std. 34200 Opt.	350	2 Bbl.	9.00	250 @ 4400	355 @ 2600	Fully Synchronized 3-Speed (Std) 4-Speed (Opt) (d-c) Jetaway 33200 (Opt) 33600 & 34200 (Opt)	3.08 ( )-2.78 ( )-3.42-3.91 3.08 ( )-3.23( )-3.42 2.56-2.78(a)-3.08(b) 3.23(b)-3.42-3.91 2.78(a)-2.56-3.08(b) 3.23(b)-3.42-3.91
34200 Std. 33600 Opt. 33200 Opt.	350	4 Bbl.	10.25	310 @ 4800	390 @ 3200	Fully Synchronized 3-Speed (Std) 4-Speed (Opt) (d-c) Jetaway (Opt)	3.08-2.78-3.23-3.42 3.91 3.08-3.23-3.42 2.78(a)-2.56-3.08(b)-3.23(b)-3.42-3.91

(a) A/C - Std.
(b) A/C - Opt.
(c) 4-Speed close ratio -3.42-3.91 only, A/C not available
(d) 4-Speed wide ratio

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MODEL	L6 33169	33269	34269

ENGINE – GENERAL

Type, no. cyls., valve arr.		L6 OHV In Line	90° OHV V-8	
Bore and stroke (nominal)		3.875 x 3.53	4.057 x 3.385	
Piston displacement, cu. in.		250	350	
Bore spacing (℄ to ℄)		4.40	4.625	
No. system (front to rear)	L. Bank	1-2-3-4-5-6	1-3-5-7	
	R. Bank	In Line	2-4-6-8	
Firing order		1-5-3-6-2-4	1-8-4-3-6-5-7-2	
Compres. ratio (nominal)		8.5 : 1	9.00 : 1	10.25 : 1
Cylinder Head Material			Cast Iron	
Cylinder Block Material			Cast Iron	
Cyl. Sleeve-Wet, dry, none			None	
Number of mtg. points	Front		Two	
	Rear		One	
Engine installation angle		3°54'	4°37'	
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		36.04	52.67	
Publishing max. bhp* @ eng. RPM		155 @ 4200	250 @ 4400	310 @ 4800
Publishing max. torque * (lb. ft. @ RPM)		240 @ 2000	355 @ 2600	390 @ 3200
Recommended fuel regular – premium		Regular	Regular	Premium

ENGINE – PISTONS

Material			Aluminum Alloy	
Description and finish			Autothermic, Cam Grind, Tin Plate, Steel Strut	
Weight (piston only) oz.			20.28	22.61
Clearance (limits)	Top land		.0345-.0435	.033-.044
	Skirt	Top	.0005-.0016	.00125-.00275
		Bottom	.0005-.0011*	.00075-.00125
Ring groove depth	No. 1 ring		.2085-.1995	.2085-.2160
	No. 2 ring		.2085-.1995	.2085-.2160
	No. 3 ring		.2025-.1935	.1995-.2070
	No. 4 ring		--	--

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

* Measured at 2.44 from top of piston.

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MODEL		L6 33169	33269	34269
ENGINE – RINGS				
Function (top to bottom)	No. 1, oil or comp.	Compression		
	No. 2, oil or comp.	Compression		
	No. 3, oil or comp.	Oil		
	No. 4, oil or comp.	None		
Compression	Description - material, coating, etc. Upper	Cast Iron-GM-16M Chrome Plated Crowned Face		Chrome Plated O.D. Crowned Face Cast Iron SPR 228K
	Description - material, coating, etc. Lower	Cast Iron GM-15M Taper Face		Cast Iron SPR128 Taper Face
	Width	.0633-.0628		.0775-.0780
	Gap	.010-.020		.010-.020
Oil	Description - material, coating, etc.	Multi-piece (2 rails & 1 spacer) Spacer - Steel A is 1 201 or 301 Rails A is 1 1070 Steel chrome plated O.D.		2 rails - 107 spr. steel chrome plated - granoseal processed Spacer - 601-75 spring steel
	Width	.1885 Asm		Rails:.0235-.0260; Spacer:.137-.139
	Gap	Rails: .015 - .055		
Expanders		None		
ENGINE – PISTON PINS				
Material		ABl 5015, C1016 or C1018		Steel SAE #1019 or #1016
Length		2.990-3.010		2.980
Diameter		.9270-.0273		.9803-.9807
Type	Locked in rod, in piston, floating, etc.	Pressed in rod		
	Bushing - In rod or piston	None		
	Bushing - Material	- -		
Clearance	In piston	.00015-.00025 Loose		.0003-.0005 Loose
	In rod	.008-.0016 Press		.0008-.0018 Press
Direction & amount offset in piston		Offset .060 in opposite direction of engine rotation.		
ENGINE – CONNECTING RODS				
Material		Drop Forged Steele AISl-C1037 or C1038		Steel SAE #1140
Weight (oz.)		19.97		24.72
Length (center to center)		5.699-5.701		6.998-6.002
Bearing	Material & Type	Copper Lead Alloy Sintered Copper Nickel Backed Babbitt St.		Moraine 100 Babbit Steel Back
	Overall length	.807		.821-.831
	Clearance (limits)	.0007-.0027		.0004-.0033
	End play	.0085-.0135		.002-.013
				2 Rods per crank pin

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MODEL			L6 33169	33269	34269
ENGINE – CRANKSHAFT					
Material			Cast Nodular	Nodular iron (or) ASIS #1049 modified	
Vibration damper type				Tuned Rubber	
End thrust taken by bearing (No.)			7	3	
Crankshaft end play			.002-.006	.004-.008	
Main bearing	Material & type		Moraine 100 Babbit Steel Backed		
	Clearance		.0003-.0029	#1-2-3-4: .0005-.0021; #5:.0015-.0031	
	Journal dia. and bearing overall length	No. 1	2.2988X.802	2.4998-2.4988x.975	
		No. 2	2.2988X.802	2.4998-2.4988 X.975	
		No. 3	2.2988X.802	2.4998-2.4988 X1.194	
		No. 4	2.2988X.802	2.4998-2.4988 X1.624	
		No. 5	2.2988X.802	2.4995-2.4985	
		No. 6	2.2988X.802	None	
		No. 7	2.2988X1.008	None	
	Dir. & amt. cyl. offset		None	*	
Crankpin journal diameter			1.999-2.000	2.1238 2.1248	
ENGINE – CAMSHAFT					
Location			Above & to R. of Crk/Sh.	Center	
Material			Cast Iron Modified	GM601M Alloy Cast Iron	
Bearings	Material		Steel Backed Babbit		
	Number		4	5	
Type of Drive	Gear or chain		Gear	Chain	
	Crankshaft gear or sprocket material		Cast Iron Steel	Hardened Steel or Sintered Iron	
	Camshaft gear or sprocket material		Bakelite & Fabric Comp. Steel hub ABI B-1112	Aluminum with Nylon Teeth Cast Iron (apt.)	
	Timing chain	No. of links	None	48	
		Width	---	.6875	
		Pitch	---	.500	
ENGINE – VALVE SYSTEM					
Hydraulic lifters (Std., opt., NA)			Standard		
Valve rotator, type (intake, exhaust)				None	
Rocker ratio			1.75:1	1.60:1	
Operating tappet clearance (indicate hot or cold)	Intake		Zero	Zero	
	Exhaust		Zero	Zero	

(Continued)

* R. H. Bank .469 to Rear & L. H Bank .469 Fwd. ℄ of Eng.

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MODEL				L-6 33169	33269	34269
ENGINE – VALVE SYSTEM (cont.)						
Timing (based on top of ramp points)	Intake		Opens (°BTC)	16°		16°
			Closes (°ABC)	48°		54°
			Duration - deg.	244°		250°
	Exhaust		Opens (°BBC)	46° 30'		64°
			Closes (°ATC)	17° 30'		20°
			Duration - deg.	244°		264°
	Valve opening overlap			33° 30'		36°
Intake	Material			AISI-A3140, C-1041, C-1047		SAE 1041, 1047
	Overall length			4.902 - 4.922		4.740
	Actual overall head dia.			1.715 - 1.725		1.880 - 1.870
	Angle of seat & face			46° Seat 45° Face		45° Seat 46° Face
	Seat insert material			None		
	Stem diameter			.3410 - .3417		.3432 - .3425
	Stem to guide clearance			.0010 - .0027		
	Lift (@ zero lash)			.388		.435
	Outer spring press. & length	Valve closed (lb.@in.)		56 - 64 @ 1.66		76 - 84 @ 1.670
		Valve open (lb.@in.)		180 - 192 @ 1.27		180 - 194 @ 1.270
	Inner spring press. & length	Valve closed (lb.@in.)		None		Damper
		Valve open (lb.@in.)		None		- -
Exhaust	Material			ARMCO #21 - 4N (MS201)		G.M. - N82152 Steel
	Overall length			4.913 - 4.933		4.695
	Actual overall head dia.			1.495 - 1.505		1.629 - 1.619
	Angle of seat & face			46° Seat 45° Face		45° Seat 46° Face
	Seat insert material			None		
	Stem diameter			.3410 - .3417		.3427 - .3420
	Stem to guide clearance			.0010 - .0027		.0015 - .0032
	Lift (@ zero lash)			.388		.435
	Outer spring press. & length	Valve closed (lb.@in.)		56 - 64 @ 1.66		76 - 84 @ 1.670
		Valve open (lb.@in.)		180 - 192 @ 1.27		180 - 194 @ 1.270
	Inner spring press. & length	Valve closed (lb.@in.)		None		Damper
		Valve open (lb.@in.)		None		- -

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings		Pressure	
	Connecting rods		Pressure	
	Piston pins	Spray		Splash
	Camshaft bearings		Pressure	
	Tappets		Pressure	
	Timing gear or chain	Nozzle		Spray
	Cylinder walls	Con Rod Bearing Throw Off		Spray

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ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type		Gear	
Normal oil pressure (lb. engine rpm)		30-45 @1500 RPM	
Oil press. sending unit (elect. or mech.)		Electric	
Type oil intake (floating, stationary)		Stationary	
Oil filter system (full flow, part., other)		Full Flow	
Filter replacement (element, complete)		Complete	
Capacity of c/case, less filter-refill (qt.)		4.0	
Oil grade recommended (SAE viscosity and temperature range)		Above 32°F-SAE 20, SAE 20W, SAE 10W30 Below 32°F-SAE 10W, SAE 10W30 Below 0°F - SAE 5W, SAE 5W10, SAE 5W20	
Engine Service Reqmt. (MM, MS, etc.)		MS	

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single	Single	
Muffler No. & type (reverse flow, straight thru, separate resonator)		One Reverse Flow	One Reverse Flow	Muffler & Separate Resonator
Exhaust pipe dia. (O.D., wall thick.)	Branch		2.00 x .076	
	Main	2.00 x .060	2.25 x .076	
Tail pipe dia. (O.D. & wall thickness)		1.75 x .048	2.00 x .048	2.00 x .076 Int. 2.00 x .048 Tail

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)	Standard		PCV Induction System	
	Optional		None	
Control Unit	Make and model	AC Vent Valve CV-273-C	AC Vent Valve CV-679-C	
	Location		Valve Cover	
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold Vacuum	
	Control method (variable orifice, fixed orifice, other)		Variable 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)		Vent Filter located in Air Cleaner	
	Flame arrestor (screen, check valve, other)		Check in Vent Valve	

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ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modificatians, other)			* Engine Modifications
Air Injection Pump	Type		None
	Displacement		
	Drive ratio		
	Drive type		
	Relief valve (type)		
	Filter (describe)		
Air Injection System	Air distribution (head, manifold, etc.)		
	Point of entry		
	Injection tube I.D.		
	Check valve type		
	Backfire protection (type)		
Carburetor	Make		Standard
	Model		
	Barrel size		
	Idle speed	Drive	
		Neutral	
	Idle A/F mixture		
Distributor	Aux. Adv. Systems (type)		
	Make		
	Model		Standard
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	
		Intermed. points deg. @ rpm	
		Max. deg. @ rpm	
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg) Intermed. points deg. @ in. Hg Max. deg. @ in.	
	Vacuum Source		Ported
Timing - Crank degrees @ rpm			Standard
Cooling System (describe changes)			None
Exhaust System (describe changes)			None

* Exhaust emission is controlled by means of pre-heated air to carburetor, carburetion adjustment, engine timing and idle settings.

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MODEL			L-6 33169	33269	34269
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 (U.S. gals.)			20	
	Filler location			Behind Rear License Plate	
Fuel Pump	Type (elec. or mech.)			Mechanical	
	Locations		Lower R.F. of Engine	Right Front on Block	
	Pressure range		3.500-4.50 PSI	5 1/2 - 7 PSI	
Vacuum booster (std., optionol, none)				None	
Fuel Filter	Type		Sintered Bronze & Saran	Paper & Saran	
	Locations			Fuel Tank and Carburetor	
Carburetor	Choke type			Automatic	
	Intake manifold heat control (exhaust or water)			Exhaust	
	Air cleaner type	Standord		Oil Wetted Paper Element (Temp.Cont.)	
		Optional		None	
	Idle speed (spec. neutral or drive)	Manual		650 Neutral	
		Automatic		550 Drive	
		Idle A/F mix.		N.A.	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usoge	Engine Displ.	Tronsmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
33100 (Std) 33500 (Std.)	250	Fully Synchro 3 Speed (Std) Jetaway (Opt)	Rochester	1 BV	One Single Barrel	1.56
33200 (Std.) 33600 (Std.) 34200 (Opt.)	350	Fully Synchro 3 Speed (Std.) 4 Speed (Opt.) Jetaway (Opt.)	Rochester	2GC	One	Primary 1 11/16
34200 (Std.) 33200 (Opt.) 33600 (Opt.)	350	Fully Synchro 3 Speed (Std.) 4 Speed (Dpt.) Jetaway (Opt.)	Rochester	4MV	One	Primary 1 3/8 Secondary2 1/4

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ENGINE – COOLING SYSTEM

			L-6		
MODEL			33169	33269	34269
Type system (pressure, pressure vented, atmospheric, other)				Pressure	
Radiator cap relief valve pressure				15 PSI	
Circulation thermostat	Type (choke, bypass)			By Pass	
	Starts to open at (°F)			195° F.	
Water pump	Type (centrifugal, other)			Centrifugal	
	GPM @ 1000 pump rpm		10.1		22
	Number of pumps			One	
	Drive (V-belt, other)			V Belt	
	Bearing type			Ball	
By-pass recirculation type (inter., ext.)			Internal		External
Radiator core type (cellular, tube and fin, other)				Tube & Center	
Cooling system capacity	With heater (qt.)		12.2		15.2
	Without heater (qt.)		11.5		14.5
	Opt. equipment-specify (qt.)		12.2 A/C		15.7 A/C
Water jackets full length of cyl. (yes, no)				Yes	
Water all around cylinder (yes, no)				Yes	
Radiator hose	Lower	Number and type (molded, straight)		One Molded	
		Inside diameter		1.75	
	Upper	Number and type (molded, straight)		One Molded	
		Inside diameter		1.50	
	By-pass	Number and type (molded, straight)	None		One Molded
		Inside diameter	---	.765-.703	
Fan	Number of blades & spacing		5 Staggered (A/C)	4 @76° (Std.)	6 Staggered (A/C)
	Diameter		18" (A/C)	18" (Std.)	19" (A/C)
	Ratio-fan to crankshaft rev.		.949:1	.85:1	
	Fan cutout type			Clutch A/C only	
	Bearing type			Ball	
*Drive belts (indicate belt used by letter)	Fan		ABCD	G (Std.)	H (A/C)
	Generator or alternator		ABDE	G (Std.)	H (A/C)
	Water Pump		ABCD	G (Std.)	H (A/C)
	Power Steering		B (SM) C (AT)	I (Std.)	J (A/C)
	Air Conditioning		F	K	
	Air Pump (P/S)		36°X30.00X.380		

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	36°	36°	36°	36°	36°	36°	36°	36°	36°	36°	36°
Nominal length (SAE)	38.86	49.50	50.00	38.64	31.14	53.85	49.14	54.83	44.11	45.19	61.86
Width	.380	.380	.380	.380	.380	.380	.380	.380	.380	.380	.380

(A) SM-AT-(Std.) (B) AT with A/C & P/S - SM with A/C (C) SM with AC & P/S
(O) AT with A/C (E) SM with A/C

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MODEL				L-6 33169	33269	34269
ELECTRICAL – SUPPLY SYSTEM						
Battery	Make and Model			Delco 1980032	Delco 1980030	
	Voltage Rtg. & Total Plates			12V-54 Plates	12V-66 Plates	
	SAE Designation & Amp. Hr. Rtg.			44 AMP Hr. @ 20 AMP Hr. Rate	61 - AMP Hr.	
	Location			Right Front Engine Compartment	Front Left Side	
	Terminal grounded			Negative	Negative	
Generator or Alternator	Make			Delco Remy		
	Model			1100767		
	Type and rating			Diode Rectifying 37 AMPS		
	Output at engine idle (neutral)			9 AMPS		
	Ratio–Gen. to Cr/s rev.			2.56:1		
Regulator	Make			Delco Remy		
	Model			1119515		
	Type			Vibrating Contact		
	Cutout relay	Closing voltage generator rpm		None		
		Reverse current to open		None		
	Regulated	Voltage		13.5 - 14.4		
		Current		None - Self Regulating		
	Voltage test conditions	Temperature		120°F		
		Load		Less than 10 AMP		
		Other		Upper Contacts		
ELECTRICAL – STARTING SYSTEM						
Starting Motor	Make			Delco Remy		
	Model			1108365	1108349	1108348
	Rotation (drive end view)			Clockwise		
Motor control	Switch (solenoid, manual)			Solenoid		
	Starting procedure			3 and 4 speed - place gear shift in neutral. Jetaway - place control lever in park. *		
Motor Drive	Engagement type			Solenoid with Over Running Clutch		
	Pinion meshes (front, rear)			Front		
	Number of teeth	Pinion		9		
		Flywheel	Manual	153	166	
			Auto.	153	166	
	Flywheel tooth face width		Manual	.4010 - .4130	.438	
			Auto.	.4010 - .4130	.438	

* Initial start - depress gas pedal to floor to set choke, turn ignition to start and release as soon as engine starts.

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MODEL			L-6 33169	33269	34269
ELECTRICAL – IGNITION SYSTEM					
Type	Conventional – Std., Opt., N.A.			Standard	
	Transistorized – Std., Opt., N.A.			NA	
	Other (specify)				
Coil	Make			Delco Remy	
	Model		1115184	1115292	
	Amps	Engine stopped			
		Engine idling			
Distributor	Make			Delco Remy	
	Model		1110351	1111286	1111299
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	0°-2 1/2° @900	0°-2 1/2° @750	0°-2° @650
		Intermediate points deg.@rpm	5 1/2°-9 1/2° @1200 13°-17° @1600 21°-30° @2300	1°-6° @900 4°-8° @1000	12°-16° @1800
		Max. deg.@rpm	26° - 30° @2800	28°-32° @4000	20°-24° @4000
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	Not Specified	0°-3° @ 9in Hg	0°-0° @8 in. Hg.
		Intermediate points, deg.@in. Hg.	Not Specified	0°-5 1/2 @ 10 in Hg. 11 1/2-18° @15 in Hg. *	2°-7° @ 11 in. Hg. 10°-15 1/2 @15in Hg **
		Max. deg. in. Hg.	Not Specified	***	****
	Breaker gap (in.)			.016	
	Cam angle (deg.)		31°-34°	29°-31°	
	Breaker orm tension (oz.)			19-32	
Timing	Crankshaft deg.@rpm		4°(SM)or6°(AT)@500	5°@850	7 1/2°@850
	Mark locotion		Torsional Damper	Balancer Asm.	
Spark Plug	Make			AC	
	Model		AC-46N	AC 45S	AC 44S
	Thread (mm)			14 MM	
	Tightening torque (lb. ft.)		25	30	
	Gap		.033-.038	.030	
Cable	Conductor type			Rsistance	
	Insulation type			Neoprene	
	Spark plug protector		Neoprene	Hypalon	

ELECTRICAL – SUPPRESSION

Locations & type	

*19°-25 1/2° @ 18 1/2 in Hq. ** 15 1/2 - 20° @ 18.6 in Hq.
22 1/2°-25 1/2° @ 20 1/2 in. Hq. * 21 1/2° Max. @ 23 in Hq.

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MODEL		33169	33269	34269

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type		AC	
	Trip odometer (yes,no)		No	
Charge indicator – type		Tell-Tale		Indicator Lamp
Temperature indicator – type		Tell-Tale		Indicator Lamp
Oil pressure indicator – type		Tell-Tale		Indicator Lamp
Fuel indicator – type			Electric Gage	
Other	Brake		Indicator Lamp	
Wind-shield wiper	Type – Standard		2-Speed Electric	
	Type – Optional		None	
Wind-shield washer	Type – Standard		Push Button	
	Type – Optional		None	
Horn	Type		Vibrator	
	Number used		2	
	Amp draw (each)		5.2 - 5.7	

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		3886126 Chevrolet Single Plate		Own Single Plate
Type pressure plate springs				Flat
Total spring load (lb.)		1650-1850 Asem.		1900-2200 Assem.
No. of clutch driven discs			One	
Clutch facing	Material		Woven Asbestos	
	Outside & inside dia.	9.12 x 6.12		10.4 x 6.5
	Total eff. area (sq.in.)	71.8		103.4
	Thickness			.135
	Engagement cushioning method		Flat Spring	
Release bearing	Type & method of lubrication		Ball-Permanent	
Torsional damping	Methods: springs, friction material		Coil Springs - Steel Friction	

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DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std. or opt.)	Std.	Std.	Std.
Manual 4-speed (std. or opt.)	NA	Opt.	Opt.
Manual with overdrive (std. or opt.)	NA	NA	NA
Automatic (std. or opt.)	Opt.	Opt.	Opt.

DRIVE UNITS – MANUAL TRANS.

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

DRIVE UNITS – MANUAL TRANS. W/OVERDRIVE

(For transmission data see manual transmission section)

Type (planetary or other)			Not 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	

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MODEL	33169	33269	34269

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Jetaway				
Type describe		2-Speed with Fixed Stator				
Selector location		Column				
List gear ratios Selector Pattern and indicate which are used in each selector position		P Park --- ---	R Reverse 1.76 ---	N Neutral --- ---	D Drive 1.76 1.00	L Low 1.76 ---
Max. upshift speed–drive range		60			70	
Max. kickdown speed–drive range		55			65	
Torque convertor	Number of elements	3				
	Max. ratio at stall	2.5			2.2	
	Type of cooling (air, liquid)	Water				
	Nominal diameter	12.5				
Lubricant	Capacity–refill (pt.)	5				
	Type recommended	Dexron				
Special transmission features						

DRIVE UNITS – PROPELLER SHAFT

Number used		One
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Exposed
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.25 dia. x 60.00 x .065
	Manual 4-speed trans.	3.25 dia. x 60.00 x .065
	Overdrive transmission	N.A.
	Automatic transmission	3.25 dia. x 60.00 x .065

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

(Continued)

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DRIVE UNITS – PROPELLER SHAFT (cont.)

Intermediate bearing	Type (plain, anti-friction)		None
	Lubrication (fitting, prepack)		None
Slip Yoke	Type		Involute Spline
	Number of teeth		27
	Spline O.D.		1.1760
Universal joints	Make and Mfg. No.		Saginaw Steering Gear
	Number used		2
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		
	Bearing — Type (plain, anti-friction)		Anti-Friction
	Bearing — Lubric. (fitting, prepack)		Prepack
Drive taken through (torque tube or arms, springs)			Arms
Torque taken through (torque tube or arms, springs)			Arms

DRIVE UNITS – AXLE

Type (front, rear)			Rear
Description			Salisbury Type - Hypoid Semi-Floating
Limited Slip differential, type			Multiple Plate Clutch "S" Shaped Pre-load Spring
Drive Pinion Offset			1.75
No. of differential pinions			2
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Coll. Spacer
Wheel bearing type			Ball
Lubricant	Capacity (pt.)		3.69
	Type recommended		GM 4744 (Std.) Mobile XRP 464BD-M (L.S.)
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for oxle ratio usage)

Axle ratio	See Note	2.78	3.08	3.23	3.42	3.91
No. of teeth — Pinion		14	13	13	12	11
No. of teeth — Ring gear		39	40	42	41	43
Ring Gear O.D.		8.568	8.560	8.555	8.552	8.543

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MODEL			33169	33269	34269
DRIVE UNITS – WHEELS					
Type & material			Welded Wheel		
Rim (size & flange type)		Std.	14 x 5J		
		Opt.	14 x 6JK 15 x 6K		
Attachment	Type (bolt or stud)		Stud		
	Circle diameter		4.75		
	Number and size		5 Studs 7/16 Dia.		
MODEL					
DRIVE UNITS – TIRES					
Standard	Size, ply rating, & ply		7.75 x 14 2 Ply-4 Ply Rate		
	Type (bias, radial, etc.)		Bias		
	Full rated Inflation Press.	Front	24		
		Rear	24		
	Rev./Mile at 50 MPH		780		
Optional	Size, ply rating, & ply		7.75 x 14 4 Ply - 8 Ply Rate 205R14 Radial Ply		
BRAKES – PARKING					
Type of control			Suspended Pedal		
Location of control			Left Drivers Compartment		
Operates on			Rear Brakes		
If separate from service brakes	Type (internal or external)		Not separate		
	Drum diameter				
	Lining size (length x width x thickness)				

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BRAKES – SERVICE

MODEL				33169	33269	34269
Type (drum or disc)				Drum (Duo-Servo)		
Self adjusting (std., opt., N.A.)				Standard		
Power brake make & type (remote, int., etc.)			Std.	Opt.		
			Opt.	Integral		
Effective area (sq. in.)*				155.6		
Gross lining area (sq. in.)**				156.3		
Swept area (sq. in.)***				267.3		
Percent brake effectiveness – front				60.67		
Drum or Disc	Diameter (nominal)		Front	9.5		
			Rear	9.5		
	Type and material			Centrifugal Cast and Composite Option Rear		
	Disc (vented or solid)					
	No. pistons per caliper					
Wheel cylinder bore	Front			1 1/8		
	Rear			15/16		
Master Cylinder	Bore			1.00		
	displacement distribution		Front %	59		
			Rear %	41		
Disc Brk. Valve	Type (proportion, delay, metering, other)					
Pedal arc ratio				3.5		
Line pressure at 100 lb. pedal load				710 (Std.) 1180 (Power)		
Shoe clearance adjustment				.015 per Shoe		
Brake lining	Drum or Disc			Drum		
	Bonded or riveted			Riveted		
	Front Wheel	Material		Marshall 143144 Pri. H 3152F Sec.		
		Size (length x width x thickness)	Prim. or outboard	7.48 x 2.50 x .166		
			Second. or inboard	9.88 x 2.50 x .231		
		Segments per shoe		1		
	Rear Wheel	Material		Marshall H3144 Pri. H3152 F Sec.		
		Size (length x width x thickness)	Prim. or outboard	7.48 x 2.00 x .166		
			Second. or inboard	9.88 x 2.00 x .231		
		Segments per shoe		1		

* Excludes rivet holes, grooves, chamfers, etc. ** Includes rivet holes, grooves, chamfers, etc.
*** Total swept area for four brakes. (Widest lining contact width for each brake x its contact circumference.)

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MODEL 33169 33269 34269

BRAKES – SERVICE

Type (drum or disc)				Disc Front	Drum Rear
Self adjusting (std., opt., N.A.)				Standard	
Power brake make & type (remote, int., etc.)	Std.			Optional	
	Opt.			Delco Moraine - Integral	
Effective area (sq. in.)*				40.6	66.1
Gross lining area (sq. in.)**				44.8	69.4
Swept area (sq. in.)***				206.4	142
Percent brake effectiveness – front				67.56	
Drum or Disc	Diameter (nominal)	Front		11.00	
		Rear			9.50
	Type and material			Rotor Cast Iron	Drum Composite
	Disc (vented or solid)			Vented	
	No. pistons per caliper			One	
Wheel cylinder bore	Front			2.06	
	Rear				.81
Master Cylinder	Bore			1.125	
	displacement distribution	Front	%	75	
		Rear	%	25	
Disc Brk. Valve	Type (proportion, delay, metering, other)			Proportion	
Pedal arc ratio				3.5	
Line pressure at 100 lb. pedal load				960	
Shoe clearance adjustment				.001	.015 per Shoe
Brake lining	Drum or Disc			Disc Front	Drum Rear
	Bonded or riveted			Riveted	Riveted
	Front Wheel	Material		Johns-Manville 2000B-44	
		Size (length x width x thickness)	Prim. or outboard	6.0 x 1.83 x .38	
			Second. or inboard	6.0 x 1.83 x .38	
		Segments per shoe		One	
	Rear Wheel	Material			Marshall Pri.H3144;Sec.H3152F
		Size (length x width x thickness)	Prim. or outboard		7.48 x 2.0 x .166
			Second. or inboard		9.88 x 2.0 x .231
		Segments per shoe			One

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

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

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MODEL				33169	33269	34269
STEERING						
Manual (std., opt., NA)				Standard		
Power (std., opt., NA)				Optional		
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt-A-Way		
		(std., opt., NA)		Optional		
Wheel diameter		Manual		16.0		
		Power		16.0		
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		44.5		
		Curb to curb (l. & r.)		41.2		
	Inside rear	Wall to wall (l. & r.)		24.3		
		Curb to curb (l. & r.)		25.2		
Outside whl. angle with inside whl. at 20°				18.8°		
Manual	Gear	Type		Ball Nut		
		Make		Saginaw Steering Gear		
		Ratios	Gear	24.1		
			Overall	28.3		
	No. wheel turns			5.56 Lock to Lock		
Power	Type (coaxial, linkage, etc.)			Gear Integral		
	Make			Saginaw Steering Gear		
	Gear	Type		Gear Integral		
		Ratios	Gear	17.5		
			Overall	20.7		
	Pump driven by			Belt from Crank		
	Number wheel turns			4.3 Lock to Lock		
Linkage	Type			Parallelogram		
	Location (front or rear of wheels, other)			Front		
	Drag link (trans. or longit.)			Transverse		
	Tie rods (one or two)			Two		
Steering Axis	Inclination at camber (deg.)			9° at 1°		
	Bearings (type)	Upper		Ball Joint		
		Lower		Ball Joint		
		Thrust		Ball Joint		
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			Range -3/4 to -1 3/4		
	Camber (deg.)			Range -1/4 to +1/2		
	Toe-in (outside track inches)			.12 to .24		
Steering spindle & joint type				Ball Joint		
Wheel Spindle	Diameter	Inner bearing		1.2497-1.2492		
		Outer bearing		.7496-.7491		
	Thread size			3/4 - 20		
	Bearing type			Tapered Roller		

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MODEL		33169	33269	34269
SUSPENSION – GENERAL		(See Supplement page for details on Air Suspension)		
Provision for car leveling		None		
Provision for brake dip control		Counter Drive Design of Suspension		
Provision for acc. squat control		Rear Suspension Upper Control Arms		
Special provisions for car jacking		None		
Shock absorber front & rear	Type	Direct Acting		
	Make	Delco		
	Piston dia.	1.00		
Other special features		None		
SUSPENSION – FRONT				
Type and description		Independent Coil Spring		
Spring	Type	Coil		
	Material	SAE 9260		
	Size (coil design height & I.D. bar length x dia.)	11.3 Design Height - 3.60 I.D. 119.0 Long x .588 dia.		127.0 Long x .588 dia.
	Spring rate (lb. per in.)	250		280
	Rate at wheel (lb. per in.)	99.9		107.8
Stabilizer	Type (link, linkless, frameless)	Link		
	Material & bar diometer	SAE 1070-.812 dia.		SAE 1070-.875 dia.
SUSPENSION – REAR				
Type and description		Link Coil Spring		
Drive and torque taken through		Arms		
Spring	Type	Coil		
	Material	SAE 9260		
	Size (length x width, coil design height & I.D.; bar length & dia.)	7.62 Design Height - 5.50 I.D. 96.0 Long x .520 dia.		102.0 Long x .530
	Spring rate (lb. per in.)	106		
	Rate at wheel (lb. per in.)	95		
	Mounting insulation type	Rubber		
	If leaf: No. of leaves	None		
	If leaf: Shackle (comp. or tens.)	None		
Stabilizer	Type (link, linkless, frameless)	None		
	Material	None		
Track bar type		None		

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MODEL	33169	33269	34269
FRAME			
Type and description (Separate frame, [illegible] frame, partially - unitized frame)	"C" Section with Torque Boxes		

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	Front
Type of finish (lacquer, enamel, other)		Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Indent. No. location		Instrument Panel (L.H.)
Engine No. location		Left Front of Block
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)		All Single Curved - Laminated Plate
Side glass type (i.e., curved - tempered plate)		All Curved - Tempered Plate
Backlight glass type (i.e., compound curved - tempered plate, three piece)		All Compound Curved - Tempered Plate
Windshield glass exposed surface area		1330.1
Side glass exposed surface area		1545.3
Backlight glass exposed surface area		1105.5
Total glass exposed surface area		3980.9

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WEIGHTS

Model	CURB WEIGHT – POUNDS			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
33169	1759	1514	3273					3124
33177	1747	1501	3248					3099
33269	1930	1518	3448					3293
33277	1916	1506	3422					3267
33535	1735	1862	3597					3448
33539	1791	1564	3355					3206
33567	1776	1567	3343					3194
33569	1764	1527	3291					3142
33577	1754	1510	3264					3115
33587	1760	1524	3284					3135
33635	1903	1867	3770					3615
33639	1956	1567	3523					3368
33667	1947	1572	3519					3364
33669	1933	1533	3466					3311
33677	1925	1518	3443					3288
33687	1931	1532	3463					3308
34239	1966	1602	3568					3413
34269	1943	1546	3489					3334
34287	1939	1551	3490					3335

Accessories & Equipment Differential Weights				Remarks
Air Conditioning			+122	
Automatic Transmission			+ 9	
Power Steering			+ 35	
Power Brakes			+ 10	
Radio			+ 8	

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MODEL	33169	33269	34269

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	N.A.	Optional
	Vent windows		N.A.
	Backlight or tailgate		N.A.
Power seats (specify type as well as availability)			Optional
Reclining front seat back (R-L or both)			*
Front seat head restrainer (R-L or both)			Optional
Radios (specify type as well as availability)			Deluxe and AM-FM Optional
Rear seat speaker			Optional
Power antenna			Optional
Clock			Optional
Air conditioner (specify type and availability)			Optional
Speed warning device			Optional
Speed control device			Optional
Ignition lock lamp			N.A.
Dome lamp			Standard
Glove compartment lamp			Optional
Luggage compartment lamp			Optional
Underhood lamp			N.A.
Courtesy lamp			Optional
Map lamp			Optional
Auto. trans. quad. lamp			Optional
Cornering light lamp			N.A.
Dual Brake Warning			Standard
Anti Theft Warming			Standard
Hazard Flasher			Standard

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	24.90
		Lowest	24.80
	Tail	Highest	23.85
		Lowest	23.79
	Sidemarker	Front	22.20
		Rear	25.06
Distance from C/L of car to center of bulb	Headlamp	Inside	16.50
		Outside *	30.18
	Tail	Inside	19.36
		Outside	28.36
	Directional	Front	32.02
		Rear	- -

* If single headlamps are used enter here.

*Optional on passenger side of strato bucket only in Cutlass and Cutlass Supreme Coupes.

F-85, Cutlass, Cutlass Supreme, Cutlass Wagon

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MAKE OF CAR Oldsmobile MODEL YEAR 1968 DATE ISSUED 6-1-67 REVISED (•) Oct. 1, 1967

WEIGHTS

Model	CURB WEIGHT – POUNDS Front	Rear	Total	% PASS. WEIGHT DISTRIBUTION Pass. In Front Front	Pass. In Front Rear	Pass. In Rear Front	Pass. In Rear Rear	SHIPPING WEIGHT
33169	1739	1518	3257					3108
33177	1708	1494	3202					3053
33269	1936	1534	3470					3315
33277	1897	1517	3414					3259
33535	1667	1906	3563					3414
33539	1780	1570	3350					3201
33567	1753	1554	3307					3158
33569	1748	1532	3280					3131
33577	1712	1505	3217					3068
33587	1733	1526	3259					3110
33635	1871	1933	3804					3649
33639	1957	1572	3529					3374
33667	1932	1558	3490					3335
33669	1937	1543	3480					3325
33677	1905	1521	3426					3271
33687	1903	1534	3437					3282
34239	1970	1606	3576					3421
34269	1924	1557	3481					3326
34287	1922	1545	3467					3312

Accessories & Equipment Differential Weights				Remarks
Air Conditioning			+ 122	
Automatic Transmission			+ 9	
Power Steering			+ 35	
Power Brakes			+ 10	
Radio			+ 8	

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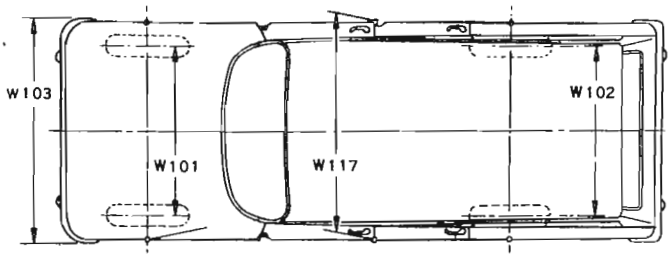
CAR AND BODY DIMENSIONS

KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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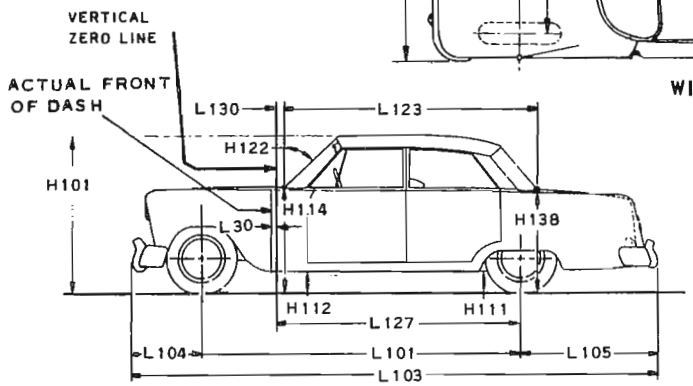
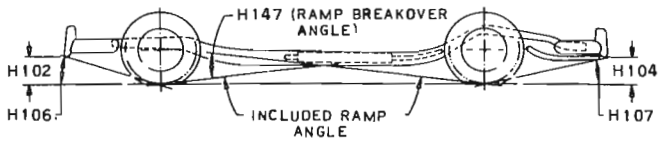
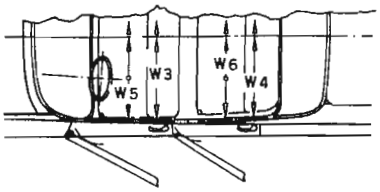


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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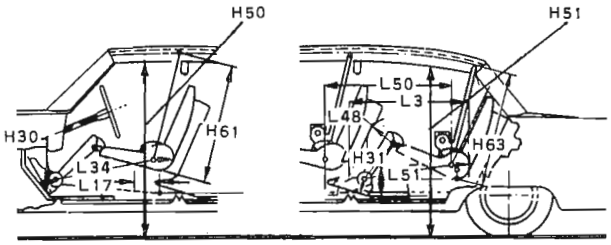
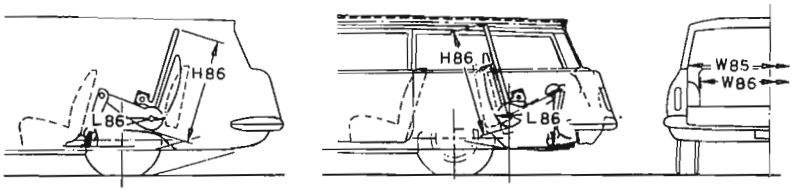
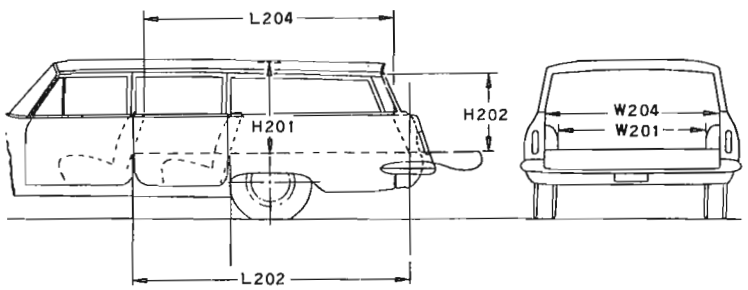


FRONT COMPT. REAR COMPT.



THIRD SEAT



CARGO SPACE

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CAR AND BODY DIMENSIONS

KEY SHEET

DIMENSION DEFINITIONS

EXTERIOR WIDTH DIMENSIONS

W101 WHEEL TREAD – FRONT. Measured at centerline of tires, with nominal camber, at ground.

W102 WHEEL TREAD – REAR. Measured at centerline of tires at ground.

W103 MAXIMUM OVERALL CAR WIDTH. Include bumpers, moldings, or sheet metal protrusions. Measured to outside of metal.

W117 MAXIMUM BODY WIDTH AT #2 PILLAR. Measured across body at #2 pillar, excluding hardware and applied moldings.

EXTERIOR LENGTH DIMENSIONS

L 30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (–) sign.

L101 WHEELBASE.

L103 OVERALL LENGTH. Include bumper guards if standard equipment.

L104 OVERHANG – FRONT. Measured from C/L of front wheels to front of car, including bumper guards if standard equipment.

L105 OVERHANG – REAR. Measured from C/L of rear wheels to rear of car, including bumper guards if standard equipment.

L123 BODY UPPER STRUCTURE LENGTH AT CAR CENTERLINE. The horizontal dimension from the Cowl Point to the Deck Point.

L127 VERTICAL ZERO LINE TO CENTERLINE OF REAR WHEELS. A horizontal dimension.

L130 VERTICAL ZERO LINE TO WINDSHIELD COWL POINT. The horizontal dimension from the vertical zero line to the theoretical intersection of extended windshield glass plane and normal cowl surface.

EXTERIOR HEIGHT DIMENSIONS

H101 OVERALL HEIGHT – DESIGN. Measured with the vehicle in Manufacturer's Design Weight attitude.

H114 COWL POINT TO GROUND. Measured at vehicle centerline.

H138 DECK POINT TO GROUND. Measured at vehicle centerline.

H112 ROCKER PANEL TO GROUND – FRONT. The vertical dimension from ground to bottom of racker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

H111 ROCKER PANEL TO GROUND – REAR. The vertical dimension from ground to bottom of rocker panel, excluding flanges. Measured to the outside of sheet metal at front of rear wheel opening.

H122 WINDSHIELD SLOPE ANGLE. The angle between a vertical line and the windshield surface at car centerline. On compound-curved windshields the chord of the arc is used and limited to that section of the windshield comprehended by on 18-inch chord.

GROUND CLEARANCE DIMENSIONS

H102 BUMPER TO GROUND – FRONT. Minimum dimension, includes bumper guards.

H104 BUMPER TO GROUND – REAR. Minimum dimension, includes bumper guards.

H106 ANGLE OF APPROACH. The angle between ground and a line tangent to the front tire static looded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H107 ANGLE OF DEPARTURE. The angle between ground and a line tangent to the rear tire static loaded radius arc and the first point of interference, i.e., bumper, guard, gravel deflector, tail pipe, fender or other component, excluding license plate. This dimension may be determined graphically for reporting purposes.

H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle. This dimension may be determined by calculation (see Design Standard DD 0.00 – 108) or graphically for reporting purposes.

H156 MINIMUM RUNNING GROUND CLEARANCE. Location of measurement on the car is to be clearly recorded.

FRONT COMPARTMENT DIMENSIONS

H 61 EFFECTIVE HEAD ROOM – FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 34 MAXIMUM EFFECTIVE LEG ROOM – ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the accelerator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.

H 30 H POINT TO HEEL POINT – FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.

L 17 H POINT TRAVEL. The horizontal dimension between the H Point in the most forward and rearward seat positions.

FRONT COMPARTMENT DIMENSIONS (Cont.)

W 3 SHOULDER ROOM – FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.

W 5 HIP ROOM – FRONT. The lateral dimension through the H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction if such construction exists.

H 50 UPPER BODY OPENING TO GROUND – FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

REAR COMPARTMENT DIMENSIONS

L 50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

H 63 EFFECTIVE HEAD ROOM – REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

L 51 MINIMUM EFFECTIVE LEG ROOM – REAR. Measured along a diagonal line from the ankle pivot center to the H Point plus a constant of 10.0 inches, with the foot positioned to the nearest interference between the seat structure and toe, instep or lower leg.

H 31 H POINT TO HEEL POINT – REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.

L 48 MINIMUM KNEE ROOM – REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.

L 3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.

W 4 SHOULDER ROOM – REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Point station.

W 6 HIP ROOM – REAR. The lateral dimension through H Point to trimmed body surfaces. Depress loose side wall cloth to trim foundation or other obstruction when such construction exists.

H 51 UPPER BODY OPENING TO GROUND – REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

LUGGAGE COMPARTMENT DIMENSIONS

V 1 LUGGAGE CAPACITY – USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place, determined in accordance with the Passenger Car Luggage Space Standard, DD 0.00 – 105.

H195 LIFTOVER HEIGHT. Vertical dimension from the highest point on the luggage compartment lower opening to ground, excluding corner radii.

STATION WAGON – THIRD SEAT DIMENSIONS

W 85 SHOULDER ROOM – THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W 86 HIP ROOM – THIRD SEAT. The lateral dimension through H Paint to trimmed surfaces.

L 86 EFFECTIVE LEG ROOM – THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.

H 86 EFFECTIVE HEAD ROOM – THIRD SEAT. The dimension fram H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

STATION WAGON – CARGO SPACE DIMENSIONS

L202 CARGO LENGTH AT FLOOR – FRONT SEAT. The horizontal dimension, measured at the floor level from the rear of the front seat back to the normal inside limiting interference on the tailgate, on the car centerline.

L204 CARGO LENGTH AT BELT – FRONT SEAT. The horizontal dimension measured from the top rear of front seat back to a vertical extension line from the normal inside limiting interference at the top of the tailgate, on the car centerline.

W201 CARGO WIDTH – WHEELHOUSE. The minimum horizontal dimension, measured between wheelhousings at floor level.

W204 OPENING WIDTH AT BELT. The minimum horizontal dimension, measured between the nearest normal inside limiting interferences of the rear opening at the top of the tailgate.

H201 MAXIMUM CARGO HEIGHT. The maximum vertical dimension, measured from the top of the floor covering to the headlining, on the car centerline.

H202 REAR OPENING HEIGHT. The vertical dimension measured from the top of the floor covering to the normal inside limiting interference at the top of the rear opening, on the car centerline, with both tail-and liftgates fully open.

V 2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

$$\frac{W4 \times L204 \times H201}{1728}$$

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