1972
AMA SPECIFICATIONS FORM
. . . Passenger Car

MANUFACTURER	CAR NAME	
OLDSMOBILE DIVISION, GMC	F-85 CUTLASS CUTLASS SUPREME	
MAILING ADDRESS	MODEL YEAR	ISSUED: 8-2-71
LANSING, MICHIGAN 48921	1972	REVISED (•) 10-15-71

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AMA Specifications Form—Passenger Car

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NOTES:

1. The General 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.
   c. All dimensions are in inches.

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

BODY MODEL	Body Series, Type and Number. (Use mfgr's. code for identification)	Number of Passengers (Indicate Front/Rear)
F-85		
D69 (33269)	Town Sedan	6 (3/3) Passengers
F87 (33287)	Cutlass Coupe	5 (2/3) Passengers
CUTLASS		
G69 (33669)	Town Sedan	6 (3/3) Passengers
G77 (33677)	Cutlass "S" Sports Coupe	5 (2/3) Passengers
G87 (33687)	Cutlass "S" Hardtop Coupe	5 (2/3) Passengers
CUTLASS SUPREME		
J39 (34239)	Hardtop Sedan	6 (3/3) Passengers
J57 (34257)	Hardtop Coupe	5 (2/3) Passengers
J67 (34267)	Convertible	5 (2/3) Passengers

The number in parenthesis is the 1971 model designation and is shown for clarification.

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for: 4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	F-85 4-Dr.Sedan 33269 (D69)	F-85 2-Dr.Hardtop 33287 (F87)	Cutlass 4-Dr.Sedan 33669 (G69)	Cutlass Coupe 33677 (G77)	Cutlass 2-Dr.Hardtop 33687 (G87)
WIDTH						
Track – Front	W101	59.3	59.3	59.3	59.3	59.3
Track – Rear	W102	59.0	59.0	59.0	59.0	59.0
Maximum overall car width	W103	76.3	76.3	76.8	76.8	76.8
Body width at No. 2 pillar	W117	74.1	--	74.1	--	--
Max. front doors open	W120	132.3	150.1	132.3	150.1	150.1
Max. rear doors open	W121	136.6	--	136.6	--	--
LENGTH						
Body "O" to front of dash	L 30	0	0	0	0	0
Wheelbase	L101	116.0	112.0	116.0	112.0	112.0
Overall car length	L103	207.6	203.6	207.6	203.6	203.6
Overhang – front	L104	42.1	42.1	42.1	42.1	42.1
Overhang – rear	L105	49.5	49.5	49.5	49.5	49.5
Body upper structure length	L123	103.8	103.6	103.8	103.6	103.6
Body "O" line to ℄ of rear wheel	L127	99.5	95.5	99.5	95.5	95.5
Body "O" line to w/s cowl point	L130	10.4	10.4	10.4	10.4	10.4
HEIGHT						
Passenger Distribution (front & rear)		2-3	2-3	2-3	2-3	2-3
Trunk/Cargo load (lbs.)		N.A.	N.A.	N.A.	N.A.	N.A.
Overall height	H101	53.5	52.9	53.5	52.9	52.9
Cowl height	H114	38.0	38.0	38.0	38.0	38.0
Deck height	H138	39.0	38.6	39.0	38.6	38.6
Rocker panel – front: To ground	H112	9.6	9.6	9.6	9.6	9.6
Rocker panel – front: From front wheel ℄	H112	29.7	29.7	29.7	29.7	29.7
Bottom of front door to ground	H133	12.1	12.0	12.1	12.0	12.0
Rocker panel – rear: To ground	H111	9.1	9.1	9.1	9.1	9.1
Rocker panel – rear: From rear wheel ℄	H111	-17.1	-17.1	-17.1	-17.1	-17.1
Bottom of rear door to ground	H135	11.9	--	11.9	--	--
Windshield slope angle	H122	53.0	53.0	53.0	53.0	53.0
GROUND CLEARANCE						
Bumper to ground – front	H102	11.5	11.5	11.5	11.5	11.5
Bumper to ground – rear	H104	12.3	12.3	12.3	12.3	12.3
Angle of approach	H106	21.41	21.41	21.41	21.41	21.41
Angle of departure	H107	15.42	15.42	15.42	15.42	15.42
Ramp breakover angle	H147	11.26	11.26	11.26	11.26	11.26
Rear axle differential to ground	H153	7.0	7.0	7.0	7.0	7.0
Min. running clearance (Specify)	H156	4.87 Exh.	4.87 Exh.	4.87 Exh.	4.87 Exh.	4.87 Exh.

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CAR AND BODY DIMENSIONS

See Pages 27, 28 for SAE Dimension Definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for: 4-Dr. Sedan, 2-Dr. H.T., 4-Dr. H.T., Convertible and Station Wagon.

MODEL	SAE Ref. No.	Cutlass Supreme 4-Dr.Hardtop 34239 (J39)	Cutlass Supreme 2-Dr.Hardtop 34257 (J57)	Cutlass Supreme Convertible 34267 (J67)
WIDTH				
Track – Front	W101	59.3	59.3	59.3
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	--	--
Max. front doors open	W120	132.3	150.1	150.0
Max. rear doors open	W121	136.6	--	--
LENGTH				
Body "O" to front of dash	L 30	0	0	0
Wheelbase	L101	116.0	112.0	112.0
Overall car length	L103	207.6	203.6	203.6
Overhang – front	L104	42.1	42.1	42.1
Overhang – rear	L105	49.5	49.5	49.5
Body upper structure length	L123	103.8	96.0	96.6
Body "O" line to ℄ of rear wheel	L127	99.5	95.5	95.5
Body "O" line to w.s cowl point	L130	10.4	10.4	10.4
HEIGHT				
Passenger Distribution (front & rear)		2-3	2-3	2-3
Trunk/Cargo load (lbs.)		N.A.	N.A.	N.A.
Overall height	H101	53.5	52.9	53.3
Cowl height	H114	38.0	38.0	38.0
Deck height	H138	39.0	38.2	38.3
Rocker panel – front – To ground	H112	9.6	9.6	9.6
Rocker panel – front – From front wheel ℄	H112	29.7	29.7	29.7
Bottom of front door to ground	H133	12.1	12.0	12.0
Rocker panel – rear – To ground	H111	9.1	9.1	9.1
Rocker panel – rear – From rear wheel ℄	H111	-17.1	-17.1	-17.1
Bottom of rear door to ground	H135	11.9	--	--
Windshield slope angle	H122	53.0	53.0	53.0
GROUND CLEARANCE				
Bumper to ground – front	H102	11.5	11.5	11.5
Bumper to ground – rear	H104	12.3	12.3	12.3
Angle of approach	H106	21.41	21.41	21.41
Angle of departure	H107	15.42	15.42	15.42
Ramp breakover angle	H147	11.26	11.26	11.26
Rear axle differential to ground	H153	7.0	7.0	7.0
Min. running clearance (Specify)	H156	4.87 Exh.	4.87 Exh.	4.87 Exh.

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CAR AND BODY DIMENSIONS

See Pages 27, 29 for SAE Dimension Definitions

MODEL	SAE Ref. No.	F-85 4-Dr.Sedan 33269 (D69)	F-85 2-Dr.Hardtop 33287 (F87)	Cutlass 4-Dr. Sedan 33669 (G69)	Cutlass Coupe 33677 (G77)	Cutlass 4-Dr.Hardtop 33687 (G87)
FRONT COMPARTMENT						
H Point to body "O" line	L31	42.9	42.9	42.9	42.9	42.9
Effective head room	H61	38.5	37.9	38.5	37.9	37.9
Max. eff. leg room – occelerator	L34	41.2	41.2	41.5	41.5	41.5
H Point to Heel point	H30	8.2	8.2	7.7	7.7	7.7
H Point travel	L17	4.8	4.8	4.8	4.8	4.8
Shoulder room	W 3	58.2	58.2	58.2	58.2	58.2
Hip room	W 5	59.6	59.6	59.6	59.6	59.6
Upper body opening to ground	H50	49.7	49.4	49.7	48.8	49.4
REAR COMPARTMENT						
H Point couple distance	L50	32.8	30.6	32.8	30.6	30.6
Effective head room	H63	37.1	36.3	37.1	36.3	36.3
Min. effective leg room	L51	34.1	32.5	34.0	32.3	32.3
H Point to Heel point	H31	10.8	10.2	10.7	10.1	10.1
Min. knee room	L48	2.3	0.6	2.3	0.7	0.7
Rear Compartment room	L 3	25.8	23.7	25.8	23.7	23.7
Shoulder room	W 4	57.3	55.7	57.3	55.7	55.7
Hip room	W 6	59.4	58.3	59.4	58.3	58.3
Upper body opening to ground	H51	49.0	--	49.0	--	--
LUGGAGE COMPARTMENT						
Usable luggage capacity (cu. ft.)	V 1	14.5	14.5	14.5	14.5	14.5
Liftover height	H195	21.3	21.3	21.3	21.3	21.3
Position of spare tire storage						
Method of holding lid open						
STATION WAGON – THIRD SEAT						
Shoulder Room	W85					
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					
Cargo length at belt – front seat	L204					
Cargo width – Wheelhouse	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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F-85
CUTLASS
CUTLASS SUPREME

POWER TEAMS

(Indicate whether standard or optional)

Gross bhp (brake horsepower) and gross torque corrected to 60° F and 29.92 in. Hg atmospheric pressure.
Net bhp (brake horsepower) and net torque corrected to 85° F and 29.38 in. Hg atmospheric pressure.

MODEL AVAILABILITY	ENGINE							TRANSMISSION	AXLE RATIO (Std. first) (Indicate A/C ratio)
	Displ. cu. in.	Carb.	Compr. Ratio	Gross @ RPM		Net @ RPM			
				BHP	Torque	BHP	Torque		
33200 (Std.) 33600 (Std.) 34200 (L32)	350	2 Bbl	8.50	N.A.	N.A.	160 @ 4000	275 @ 2400	3-Speed SMT * 4-Speed SMT * THM-350	3.23 3.23 2.73, 3.08, 3.23
					**	175 @ 4000	295 @ 2600		
34200 (Std.) 33600 (L34) 33200 (L34)	350	4 Bbl	8.50	N.A.	N.A.	180 @ 4000	275 @ 2800	3-Speed SMT * 4-Speed SMT * THM-350	3.23, 2.73, 3.08 3.23 2.73, 3.08, 3.23
					**	200 @ 4400	300 @ 3200		
33200 (L75) 33600 (L75) 34200 (L75)	455	4 Bbl	8.50	N.A.	N.A.	250 @ 4200	370 @ 2800	4-Speed SMT THM-400	3.23 2.73, 3.08, 3.23
33287 (L75) 33677 (L75) 33687 (L75) 34257 (L75) 34267 (L75)	455	4 Bbl	8.50	N.A.	N.A.	270 @ 4400	370 @ 3200	4-Speed SMT THM-400	3.23 2.73, 3.08, 3.23
33287 (L77) 33677 (L77) 33687 (L77) 34267 (L77)	455 (W30) *	4 Bbl	8.50	N.A.	N.A.	300 @ 4700	410 @ 3200	4-Speed SMT THM-400	3.42, 3.73 3.42, 3.73

* Not available in California.

** With Dual Exhaust (35N10).

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MODEL F-85 CUTLASS CUTLASS SUPREME 350 2 BBL. & 4 BBL. 455 4 BBL.

ENGINE – GENERAL

Type, no. cyls., valve arr.			90 OHV V8	
Bore and stroke (nominal)		4.057 x 3.385		4.126 x 4.250
Piston displacement, cu. in.		350		455
Bore spacing (℄ to ℄)			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	
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			4° 37'	
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$			N.A.	
Recommended fuel regular – premium			91 Octane Unleaded or Low Lead	
Cylinder Head Volume (cc)		60.58 Min.		69.75 Min.
Head Gasket Thickness (Compressed)			.023 - .027	
Head Gasket Volume (cc)			5.323 Min.	
Deck Clearance (minimum) (above or below block)			.002 Below Min.	
Minimum Combustion Chamber Volume (cc)		89.975 Min.		114.083 Min.

ENGINE – PISTONS

Material			Aluminum Alloy	
Description and finish			Autothermic, Cam Grind, Tin Plate, Steel Strut	
Weight (piston only) oz.		22.611		24.057
Clearance (limits)	Top land	.032 - .043		.033 - .044
	Skirt Top		--	
	Skirt Bottom		.00075 - .00125	
Ring groove diameter	No. 1 ring	.2085 - .2160		.2125 - .2195
	No. 2 ring	.2085 - .2160		.2125 - .2195
	No. 3 ring	.1995 - .2070		.2025 - .2095
	No. 4 ring		--	

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MODEL F-85 CUTLASS CUTLASS SUPREME

ENGINE – RINGS

		350 2 BBL. & 4 BBL.	455 4 BBL.
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.	*	**
	Width	.0775 - .0780	.0770 - .0780
	Gap	.010 - .020	.013 - .023
Oil	Description - material, coating, etc.	***	****
	Width	R .0235-.0260; S .137-.139	R .0235-.0252; S .137-.134
	Gap	R .015-.055; S Not Specified	R .015-.055; S .285 ± .041
Expanders		Spacer-601-75 Spring	Spacer-Cold Roll Steel

ENGINE – PISTON PINS

Material		Steel SAE #1019 or #1016	
Length		2.980	
Diameter		.9803 - .9807	
Type	Locked in rod, in piston, floating, etc.	Pressed in Rod	
	Bushing – In rod or piston	None	
	Bushing – Material	--	
Clearance	In piston	.0003 - .0005 Loose	
	In rod	.0008 - .0018 Press	
Direction & amount offset in piston		.060 to R.H. of Cylinder Bore Centerline	

ENGINE – CONNECTING RODS

Material		Steel SAE #1140	
Weight (oz.)		24.72	30.33
Length (center to center)		5.998 - 6.002	6.733 - 6.737
Bearing	Material & Type	Moraine 100 Babbitt Steel Backed	GM 3889M Aluminum Moraine 400 Steel Backed
	Overall length	.821 - .831	
	Clearance (limits)	.0004 - .0033	
	End play	.002 - .011 2 Rods Per Crankpin	.002 - .013 2 Rods Per Crankpin

* Upper-Cast Iron SPR 228K Crowned Chromium Plate O.D. Face
Cast Iron SPR 128.
Lower-With Tapered O.D. Face.

** Upper-Cast Iron with Crowned and Molybdenum Plated O.D. Face, Surface Treated with Graphitox.
Lower-Cast Iron with Tapered O.D. Face, Surface Treated with Graphitox.

*** Rails-1070 Spring Steel-Granoseal Processed-Chromium Plated I.D.

**** 2 Rails-Spring Steel-Black Oxide Finish-Chromium Plated O.D.

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F-85
CUTLASS

MODEL	CUTLASS SUPREME	350 2 BBL. & 4 BBL.	455 4 BBL.

ENGINE – CRANKSHAFT

Material			Nodular Iron (Std.) - A.I.S.I. #1049 Modified (Opt.)	
Vibration damper type			Tuned Rubber	
End thrust taken by bearing (No.)			#3 Center	
Crankshaft end play			.004 - .008	
Main bearing	Material & type		Moraine 100 Babbitt Steel Backed	GM 3889-M Aluminum Moraine 400 Steel Backed
	Clearance		*	**
	Journal dia. and bearing overall length	No. 1	2.50 x .975	3.00 x .975
		No. 2	2.50 x .975	3.00 x .975
		No. 3	2.50 x 1.194	3.00 x 1.194
		No. 4	2.50 x .975	3.00 x .975
		No. 5	2.50 x 1.624	3.00 x 1.624
		No. 6	None	
		No. 7	None	
	Dir. & amt. cyl. offset		R.H. Bank .469 to Rear and L.H. Back .469 Forward of ℄ of Engine	
	No. bolts/main brg. cap		2 Per Cap	
Crankpin journal diameter			2.1238 - 2.1248	2.4988 - 2.4998

ENGINE – CAMSHAFT

Location			Center
Material			GM 6016M Alloy Cast Iron
Bearings	Material		Moraine 100 Steel Backed Babbitt - GM 4167M
	Number		Five
Type of Drive	Gear or chain		Chain
	Crankshaft gear or sprocket material		SAE #1118, 1140, 1141, 1146, GM 85M Steel A.S.T.M. B-310 56T Sintered Iron or GM 3884M 1-B
	Camshaft gear or sprocket material		SAE #308 Aluminum with #101 Nylon Teeth Optional - Cast Iron
	Timing chain	No. of links	48
		Width	.720 - .750 .875 and .844
		Pitch	.500

* #1, 2, 3, 4 - .005 - .0021
#5 - .0015 - .0031

** #1, 2, 3, 4 - .005 - .0021
#5 - .0020 - .0034

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MODEL F-85 / CUTLASS / CUTLASS SUPREME

ENGINE – VALVE SYSTEM

			350 2 BBL. EXC. CALIF.		350 2 BBL. CALIF.
			350 4 BBL. AT EXC. CALIF.		350 4 BBL. AT CALIF.
Hydraulic lifters (Std., opt., NA)			Standard		
Valve rotator, type (intake, exhaust)			Helical Spring and Flat Washer Type - Intake and Exhaust		
Rocker ratio			1.6:1		
Operating tappet clearance (indicate hot or cold)	Intake		Zero		
	Exhaust		Zero		
Timing (based on top of ramp points)	Intake	Opens (°BTC)	16°		22°
		Closes (°ABC)	54°		60°
		Duration (deg.)	250°		262°
	Exhaust	Opens (°BBC)	64°		68°
		Closes (°ATC)	20°		26°
		Duration (deg.)	264°		274°
	Valve open overlap (deg.)		36°		48°
Intake	Material		Steel - SAE 1041, 1047 Federal and Silchrome I California		
	Overall length		4.740		
	Actual overall head dia.		1.880 - 1.870		
	Angle of seat & face (deg.)		45° Seat 46° Face		
	Seat insert material		None		
	Stem diameter		.3432 - .3425		
	Stem to guide clearance		.0010 - .0027		
	Lift (@ zero lash)		.400		.440
	Outer spring press. & length	Valve closed (lb. @ in.)	76 - 84 @ 1.670		76 - 84 @ 1.670
		Valve open (lb. @ in.)	180 - 194 @ 1.270		191 - 206 @ 1.230
	Inner spring press. & length	Valve closed (lb. @ in.)	None		
		Valve open (lb. @ in.)	--		
Exhaust	Material		Steel 21-2		
	Overall length		4.708 Federal and 4.728 California		
	Actual overall head dia.		1.622 Federal and 1.562 California		
	Angle of seat & face (deg.)		30° Federal - 45° Seat 46° Face California		
	Seat insert material		Silchrome XB (California Only)		
	Stem diameter		.3427 - .3420		
	Stem to guide clearance		.0015 - .0032		
	Lift (@ zero lash)		.400		.440
	Outer spring press. & length	Valve closed (lb. @ in.)	76 - 84 @ 1.670		76 - 84 @ 1.670
		Valve open (lb. @ in.)	180 - 194 @ 1.270		191 - 206 @ 1.230
	Inner spring press. & length	Valve closed (lb. @ in.)	Damper		
		Valve open (lb. @ in.)	--		

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MODEL F-85 CUTLASS CUTLASS SUPREME			350 4 BBL. SM (N.A. CALIF.)	455 4 BBL. (L75) 250 HP	
ENGINE – VALVE SYSTEM					
Hydraulic lifters (Std., opt., NA)					
Valve rotator, type (intake, exhaust)					
Rocker ratio					
Operating tappet clearance (indicate hot or cold)	Intake				
	Exhaust				
Timing (based on top of ramp points)	Intake	Opens (° BTC)	30°		
		Closes (° ABC)	75°		
		Duration (deg.)	285°		
	Exhaust	Opens (° BBC)	71°		
		Closes (° ATC)	36°		
		Duration (deg.)	287°		
	Valve open overlap (deg.)		66°		
Intake	Material		Steel - SAE 1041, 1047		
	Overall length		4.740	4.707	
	Actual overall head dia.		1.880 - 1.870	2.000 - 1.990	
	Angle of seat & face (deg.)		45° Seat 46° Face		
	Seat insert material		None		
	Stem diameter		.3432 - .3425		
	Stem to guide clearance		.0010 - .0027		
	Lift (" zero lash)		.472		
	Outer spring press. & length	Valve closed (lb. in.)	76 - 84 @ 1.670		
		Valve open (lb. in.)	199 - 214 @ 1.198		
	Inner spring press. & length	Valve closed (lb. in.)	Damper		
		Valve open (lb. in.)	--		
Exhaust	Material		Steel 21-2		
	Overall length		4.708	4.675	
	Actual overall head dia.		1.617 - 1.627	1.679 - 1.689	
	Angle of seat & face (deg.)		30°		
	Seat insert material		None		
	Stem diameter		.3427 - .3420		
	Stem to guide clearance		.0015 - .0032		
	Lift (" zero lash)		.472		
	Outer spring press. & length	Valve closed (lb. in.)	76 - 84 @ 1.670		
		Valve open (lb. in.)	199 - 214 @ 1.198		
	Inner spring press. & length	Valve closed (lb. in.)	Damper		
		Valve open (lb. in.)	--		

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MODEL F-85 CUTLASS CUTLASS SUPREME

ENGINE – VALVE SYSTEM			455 4 BBL. (L75) 270 HP	455 4 BBL. W30 (L77)
Hydraulic lifters (Std., opt., NA)				
Valve rotator, type (intake, exhaust)				
Rocker ratio				
Operating tappet clearance (indicate hot or cold)	Intake			
	Exhaust			
Timing (based on top of ramp points)	Intake	Opens (BTC)	44°	56°
		Closes (ABC)	84°	92°
		Duration (deg.)	308°	328°
	Exhaust	Opens (BBC)	84°	96°
		Clases (ATC)	44°	52°
		Duration (deg.)	308°	328°
	Valve open overlap (deg.)		88°	108°
Intake	Material		Steel - SAE #1041, 1047	
	Overall length		4.703	
	Actual overall head dia.		2.067 - .2077	
	Angle of seat & face (deg.)		30°	
	Seat insert material		None	
	Stem diameter		.3432 - .3425	
	Stem to guide clearance		.0010 - .0027	
	Lift (zero lash)		.474	.475
	Outer spring press. & length	Valve closed (lb. in.)	115 - 125 @ 1.670	115 - 125 @ 1.670
		Valve open (lb. in.)	281 - 308 @ 1.196	281 - 308 @ 1.195
	Inner spring press. & length	Valve closed (lb. in.)	Damper	
		Valve open (lb. in.)	--	
Exhaust	Material		Steel 21-2	
	Overall length		4.695	
	Actual overall head dia.		1.619 - 1.629	
	Angle of seat & face(deg.)		45° Seat 46° Face	
	Seat insert material		Silchrome XB	
	Stem diameter		.3427 - .3420	
	Stem to guide clearance		.0015 - .0032	
	Lift (zero lash)		.474	.475
	Outer spring press. & length	Valve closed (lb. in.)	115 - 125 @ 1.670	115 - 125 @ 1.670
		Valve open (lb. in.)	281 - 308 @ 1.196	280 - 308 @ 1.195
	Inner spring press. & length	Valve closed (lb. in.)	Damper	
		Valve open (lb. in.)	--	

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MODEL		
F-85 CUTLASS CUTLASS SUPREME	350 2 BBL. & 4 BBL.	455 4 BBL.

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings		Pressure
	Connecting rods		Pressure
	Piston pins		Spray
	Camshaft bearings		Pressure
	Tappets		Pressure
	Timing gear or chain		Spray
	Cylinder walls		Spray
Oil pump type			Gear
Normal oil pressure (lb. / engine rpm)		30 - 45 @ 1500	30 - 50 @ 1500
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)			Element
Capacity of c/case, less filter-refill (qt.)			4.0
Oil grade recommended (SAE viscosity and temperature range)			Above 20° F - 20W, 10W30, 10W40, 20W40 0° to 60° F - 10W, 5W30, 10W30, 10W40 Below 20° F - 5W, 5W20, 5W30
Engine Service Reqmt. (MM, MS, etc.)			SE

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single with Cross-over
Muffler No. & type (reverse flow, straight thru, separate resonator)		Muffler - One Reverse Flow
Exhaust pipe dia. (O.D., wall thick.)	Branch	None
	Main	2.00 x .075
Tail pipe dia. (O.D. & wall thickness)		2.00 x .060

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MODEL F-85 CUTLASS CUTLASS SUPREME

ENGINE – FUEL SYSTEM

			350 2 BBL.	350 4 BBL.
			(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.)		Gross - 20 - Usable - 19	
	Filler location		Rear Bumper (Behind License Plate)	
Fuel Pump	Type (elec. or mech.)		Mechanical	
	Locations		Right Front of Cylinder Block	
	Pressure range		5.50 - 6.50 PSI	
Vacuum booster (std., optional, none)			None	
Fuel Filter	Type		Paper and Saran Type	
	Locations		Carburetor and Fuel Tank	
Carburetor	Choke type		Automatic	
	Intake manifold heat control (exhaust or water)		Exhaust	
	Air cleaner type	Standard	Oil Wetted Paper Element (Temperature Controlled)	
		Optional	Same as Above with External Cold Air Intake	
	Idle speed (spec. neutral or drive)	Manual	750 N (N.A. Calif.)	750 N (N.A. Calif.)
		Automatic	650 DR	600 DR
		Idle A-F mix.	N.A.	

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		
33200 (Std.) 33600 (Std.) 34200 (L32)	350	3-Speed-SMT THM-350	Rochester	2GC	1	Prim.1-11/16
34200 (Std.) 33600 (L34) 33200 (L34)	350	3-Speed-SMT 4-Speed-SMT THM-350	Rochester	4MC	1	Prim.1-3/8 Sec. 2-1/4
33200 (L75 or L77) 33600 (L75 or L77) 34200 (L75 or L77)	455	4-Speed-SMT THM-400	Rochester	4MC	1	Prim.1-3/8 Sec. 2-1/4

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MODEL F-85 CUTLASS CUTLASS SUPREME

ENGINE – FUEL SYSTEM

(See supplemental page for Details of Fuel Injection, Supercharger, etc. if used)

Induction type: Carburetor, fuel injection, supercharger.				
Fuel Tank	Refill capacity (U.S. gals.)			
	Filler location			
Fuel Pump	Type (elec. or mech.)			
	Locations			
	Pressure range			
Vacuum booster (std., optional, none)				
Fuel Filter	Type			
	Locations			
Carburetor	Choke type			
	Intake manifold heat control (exhaust or water)			
	Air cleaner type	Standard		
		Optional		
	Idle speed (spec. neutral or drive)	Manual	750 (In Neutral)	750 (In Neutral)
		Automatic	600 (In Drive)	650 (In Drive)
		Idle A/F mix.		

CARBURETOR SUPPLEMENTARY INFORMATION

Model Usage	Engine Displ.	Transmission	Carburetors		No. Used and Type	Barrel Size
			Make	Model		

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85 CUTLASS CUTLASS SUPREME — 350 2 BBL. AND 4 BBL.

ENGINE – COOLING SYSTEM

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°
Water pump	Type (centrifugal, other)		Centrifugal
	GPM 1000 pump rpm		22
	Number of pumps		One
	Drive (V-belt, other)		V-Belt
	Bearing type		Ball
By-pass recirculation type (inter., ext.)			External
Radiator core type (cellular, tube and fin, other)			Tube and Fin
Cooling system capacity	With heater (qt.)		15.2
	Without heater (qt.)		N.A.
	Opt. equipment-specify (qt.)		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	1.56 and 1.81 (Tapered)
	Upper	Number and type (molded, straight)	One Molded
		Inside diameter	1.56
	By-pass	Number and type (molded, straight)	One Molded
		Inside diameter	.703 - .765
Fan	Number of blades & spacing		4 @ 76° (Std.) 6 Ransom Spaced (A/C)
	Diameter		19 Std. 19.50 (A/C)
	Ratio-fan to crankshaft rev.		.85:1 (Std.) 1.40:1 (A/C)
	Fan cutout type		Clutch (A/C)
	Bearing type		Ball
*Drive belts (indicate belt used by letter)	Fan		All Belts Drive Fan and Water Pump
	Generator or alternator		A (Std.), B (W/C49), C (H/D), D (H/D SM W/C49)
	~~Water Pump~~ Gen. or Alt.		E (A/C), F (A/C SM W/C49)
	Power Steering		G (Std.), H (A/C or H/D)
	Air Conditioning		I

* 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°		
Nominal length (SAE)	49.14	48.73	56.62	56.69	50.00	49.75	44.11	45.50	58.50		
Width	.380	.380	.380	.380	.380	.380	.380	.380	.380		

@ Cogged Construction.

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MODEL F-85 CUTLASS CUTLASS SUPREME 455 4 BBL.

ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			
Radiator cap relief valve pressure			
Circulation thermostat	Type (choke, bypass)		
	Starts to open at (°F)		
Water pump	Type (centrifugal, other)		
	GPM 1000 pump rpm		
	Number of pumps		
	Drive (V-belt, other)		
	Bearing type		
By-pass recirculation type (inter., ext.)			
Radiator core type (cellular, tube and fin, other)			
Cooling system capacity	With heater (qt.)		
	Without heater (qt.)		
	Opt. equipment-specify (qt.)		
Water jackets full length of cyl. (yes, no)			
Water all around cylinder (yes, no)			
Radiator hose	Lower	Number and type (molded, straight)	
		Inside diameter	
	Upper	Number and type (molded, straight)	
		Inside diameter	
	By-pass	Number and type (molded, straight)	
		Inside diameter	
Fan	Number of blades & spacing		4 @ 76° (Std.) 6 Random Spaced (W30 or A/C)
	Diameter		19.50
	Ratio-fan to crankshaft rev.		.85:1 (Std.) 1.40:1 (A/C)
	Fan cutout type		Clutch (W30 or A/C Only)
	Bearing type		Ball
*Drive belts (indicate belt used by letter)	Fan		All Belts Drive Fan and Water Pump
	Generator or alternator		A (Std.), B (C49), C (H/D), D (H/D SM W/C49)
	~~Generator~~ Gen. or Alt.		E (A/C), F (A/C SM W/C49)
	Power Steering		G (Std.), H (A/C or H/D)
	Air Conditioning		I (Std.)

* 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°		
Nominal length (SAE)	51.50	51.20	52.50	52.26	58.50	58.50	44.11	45.50	61.00		
Width	.380	.380	.380	.380	.380	.380	.380	.380	.380		

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MODEL F-85 CUTLASS CUTLASS SUPREME — 350 2 BBL. AND 4 BBL.

VEHICLE EMISSION CONTROL

Exhaust Emission Control	Type (Air injection, engine modifications, other)			* Engine Modification
	Air Injection Pump	Type		None
		Displacement		
		Drive ratio		
		Drive type		
		Relief valve (type)		
		Filter (describe)		
	Air Injection System	Air distribution (head, manifold, etc.)		None
		Point of entry		
		Injection tube i.d.		
		Check valve type		
		Backfire protection (type)		
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard	Positive Crankcase Vent. (Induction System)
			Optional	None
	Control Unit	Make and model		AC Vent Valve CV-679-C
		Location		Valve Cover
		Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
		Control method (variable orifice, fixed orifice, other)		Variable Orifice
	Complete system	Discharges (to intake manifold, other)		Intake Manifold and Air Cleaner
		Air inlet (breather cap, other)		Vent Filter Located on Valve Cover
		Flame arrestor (screen, other)		Check in Vent Valve
Evaporative Emission Control	Fuel Tank	Refill Capacity (U.S. gallons)		Gross - 20 - Usable - 19
		Thermal expansion volume (cu. ft.)		.401
		Pressure relief location (lbs.)		.903 - 1.265 in Cap
		Vacuum relief location (lbs.)		.181 - .506 in Cap
		Vapor-liquid separator type		Standpipe
		Vapor vented to (crankcase, cannister, other)		Canister
	Carburetor	Vapor vented to (crankcase, cannister, other)		Canister
	Vapor Storage	Storage provision (crankcase, cannister, other)		Canister
		Volume (cu. ft.) or capacity (grams)		.055 cu. ft.
		Control valve type		

* Exhaust emission is controlled by means of preheated air to carburetor, carburetor adjustment, engine timing control systems and fixed idle setting.

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MODEL	F-85 CUTLASS CUTLASS SUPREME	455 4 BBL. (L75 AT)	455 4 BBL. (L75 SM AND ALL W30)

VEHICLE EMISSION CONTROL

Exhaust Emission Control	Type (Air injection, engine modifications, other)				
	Air Injection Pump	Type			
		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)			
Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard	Positive Crankcase Ventilation (Induction System)	
			Optional	None	
	Control Unit	Make and model		AC Ventilation Valve CV-679C	
		Location		Valve Cover	Intake Manifold
		Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum	
		Control method (variable orifice, fixed orifice, other)		Variable Orifice	
	Complete system	Discharges (to intake manifold, other)		Intake Manifold & Air Cleaner	
		Air inlet (breather cap, other)		1 Vent Filter in Vlv.Cvr.	2 Vent Flts. in Vlv.
		Flame arrestor (screen, other)		Check in Vent. Vlv.	Cvr.
Evaporative Emission Cantrol	Fuel Tank	Refill Capacity (U.S. gallons)			
		Thermal expansion volume (cu. ft.)			
		Pressure relief location (lbs.)			
		Vacuum relief location (lbs.)			
		Vapor-liquid separator type			
		Vapor vented to (crankcase, cannister, other)			
	Carbu-retor	Vapor vented to (crankcase, cannister, other)			
	Vapor Storage	Storage provision (crankcase, cannister, other)			
		Volume (cu. ft.) ar capacity (grams)			
		Control valve type			

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MODEL		350 2 BBL. AND 4 BBL.	455 4 BBL.
	F-85 CUTLASS		
	CUTLASS SUPREME		

ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco Remy 1980145
	Voltage Rtg. & Total Plates		12V 66 Plate
	SAE Designation & Amp. Hr. Rtg.		61 Amp Hours
	Location		Engine Compartment - Left Hand Front
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1102440(Std.) 1102439(A/C AMT) 1102437(A/C SM)
	Type and rating		Diode Self Rectifying 37 Amp(Std.) 55 Amp(A/C)
	Output at engine idle (neutral)		11 Amp
	Ratio–Gen. to Cr/s rev.		2.514 Std. 3.198 A/C
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	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			1108386 1108387
	Rotation (drive end view)			Clockwise
Motor control	Switch (solenoid, manual)			Solenoid
	Starting procedure *			SM - Gear Shift Lever in Neutral and Depress Clutch to Floor. AM - Gear Shift Lever in Park.
Motor Drive	Engagement type			Solenoid with Overrunning Clutch
	Pinion meshes (front, rear)			Front
	Number of teeth	Pinion		Nine
		Flywheel	Manual	166
			Auto.	166
	Flywheel tooth face width		Manual	.438
			Auto.	.393 - .357

* Initial Start - Depress gas pedal to floor to set choke. Turn ignition to start position and release as soon as engine starts.

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MODEL F-85 CUTLASS CUTLASS SUPREME

ELECTRICAL – IGNITION SYSTEM – DISTRIBUTOR

		350 2 BBL.	350 4 BBL.
Breaker gap (in.)		.016	
Cam angle (deg.)		29 - 31	
Brkr. arm tension (oz.)		19 - 23	
Distributor	Manual	1112106	1112106
	Automatic	1112106	1112085
Timing	Manual	8° @ 1100 RPM	8° @ 1100 RPM
	Automatic	8° @ 1100 RPM	12° @ 1100 RPM

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1112085	0° @ 490 RPM	0° - 4° @ 810 RPM 15.5° - 19.5° @ 2050 RPM	28° - 32° @ 4000 RPM	0° - 3.5° @ 7 In. Hg.	22.5° - 26.5° @ 17.5 In. Hg.
1112106	0° @ 729 RPM	0° - 4° @ 971 RPM 17° - 21° @ 2000 RPM	28° - 32° @ 4000 RPM	0° - 3.5° @ 7 In. Hg.	22.5° - 26.5° @ 17.5 In. Hg.

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MODEL F-85 CUTLASS CUTLASS SUPREME

ELECTRICAL – IGNITION SYSTEM – DISTRIBUTOR

		455 4 BBL. (L75)	455 4 BBL. W30 (L77)
Breaker gap (in.)			
Cam angle (deg.)			
Brkr. arm tension (oz.)			
Distributor	Manual	1112033	1112036
	Automatic	1112033	1112034
Timing	Manual	10° @ 1100	10 @ 1100
	Automatic	8° @ 1100	10° @ 850

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Max.	Start	Max.
1112033	0° @ 725 RPM	0° - 4° @ 1080 RPM 10° - 14° @ 2000 RPM	18° - 22° @ 3600 RPM	0° - 6° @ 10 In. Hg.	22.5° - 28° @ 24 In. Hg.
1112034	0° @ 650 RPM	0° - 6° @ 850 RPM 12° - 16° @ 1250 RPM	24° - 28° @ 2900 RPM	0° - 6° @ 8 In. Hg.	22.5° - 29.5° @ 24 In. Hg.
1112036	0° - 725 RPM	0° - 4° @ 950 RPM 16° - 20° @ 1800 RPM	20° - 24° @ 4000 RPM	0° - 6.5° @ 8 In. Hg.	22.5° - 29.5° @ 24 In. Hg.

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL	F-85 CUTLASS CUTLASS SUPREME	350 2 BBL. AND 4 BBL. AT	350 4 BBL. SM

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Standard	
	Transistorized – Std., Opt., N.A.		N.A.	
	Other (specify)		None	
Coil	Make		Delco Remy	
	Model		1115292	
	Amps	Engine stopped	4.0	
		Engine idling	2.0	
Spark Plug	Make		AC	
	Model		R46S	R45S
	Thread (mm)		14MM	
	Tightening torque (lb. ft.)		30	
	Gap		.040	
Cable	Conductor type		Resistance	
	Insulation type		Neoprene	
	Spark plug protector		Hypalon	

ELECTRICAL – SUPPRESSION

Locations & type	

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	AC
	Trip odometer (std. opt., N.A.)	N.A.
Charge indicator – type		Indicator Lamp
Temperature indicator – type		Indicator Lamp
Oil pressure indicator – type		Indicator Lamp
Fuel indicator – type		Gage
Windshield wiper	Type – Standard	2-Speed Electric
	Type – Optional	None
Windshield washer	Type – Standard	Push Type
	Type – Optional	None
Horn	Type	Vibrator
	Number used	Two
	Amp draw (each)	5.2 - 5.7
Other		

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MODEL		455 4 BBL. (L75 AT)	455 4 BBL. (L75 SM AND W30)
F-85 CUTLASS CUTLASS SUPREME			

ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		
	Transistorized – Std., Opt., N.A.		
	Other (specify)		
Coil	Make		
	Model		
	Amps – Engine stopped		
	Amps – Engine idling		
Spark Plug	Make		
	Model	R46S	R45S
	Thread (mm)		
	Tightening torque (lb. ft.)		
	Gap		
Cable	Conductor type		
	Insulation type		
	Spark plug protector		

ELECTRICAL – SUPPRESSION

Locations & type	

ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speedometer	Type	
	Trip odometer (std. opt., N.A.)	
Charge indicator – type		
Temperature indicator – type		
Oil pressure indicator – type		
Fuel indicator – type		
Windshield wiper	Type – Standard	
	Type – Optional	
Windshield washer	Type – Standard	
	Type – Optional	
Horn	Type	
	Number used	
	Amp draw (each)	
Other		

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MODEL F-85 CUTLASS CUTLASS SUPREME 350 C.I.D.

DRIVE UNITS – CLUTCH (Manual Transmission)

Make & type		Chevrolet - Single Plate
Type pressure plate springs		Flat Belleville
Total spring load (lb.)		1900 - 2200 Assembly
No. of clutch driven discs		One
Clutch facing	Material	Woven Asbestos
	Outside & inside dia.	10.40 x 6.50
	Total eff. area (sq.in.)	103.4
	Thickness	.140
	Engagement cushioning method	Flat Spring
Release bearing	Type & method of lubrication	Ball - Permanent
Torsional damping	Methods: springs, friction material	Coil Springs - Steel Friction

DRIVE UNITS – TRANSMISSIONS

Manual 3-speed (std., opt. N.A.)	Standard
Manual 4-speed (std., opt. N.A.)	Optional
Automatic (std., opt. N.A.)	Optional

DRIVE UNITS – MANUAL TRANS.

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

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MODEL F-85 CUTLASS CUTLASS SUPREME — 350 C.I.D.

DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Turbo HydraMatic 350					
Type describe		3-Speed Fixed Stator					
Selector location		Column					
List gear ratios Selector Pattern and indicate which are used in each selector position		P Park	R Reverse	N Neutral	D Drive	S Super	L Low
		--	1.93	--	2.52	2.52	2.52
		--	--	--	1.52	1.52	--
		--	--	--	1.00	--	--
Max. upshift speed–drive range		1-2 45-55 MPH				2-3 75-80 MPH	
Max. kickdown speed–drive range		2-1 35-40 MPH				3-2 73-78 MPH	
Torque convertor	Number of elements	Three					
	Max. ratio at stall	2.25 Fixed Stator					
	Type of cooling (air, liquid)	Water					
	Nominal diameter	12.5					
Lubricant	Capacity–refill (pt.)	Six					
	Type recommended	Dexron					
Special transmission features		Part Throttle 3-2 Downshifts up to 50 MPH to Provide Additional Performance					

DRIVE UNITS – PROPELLER SHAFT

Number used		One	
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Straight Tube (SMT)	Tube-in-Tube (HMT)
Outer diam. x length* x wall thickness	Manual 3-speed trans.	3.00 x 55.14 x .065 *	3.25 x 59.15 x .065
	Manual 4-speed trans.	3.00 x 54.43 x .065 *	N.A.
	Overdrive transmission	N.A.	
	Automatic transmission	**	***

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

(Continued)

* Coupe
** 3.00 x 55.14 x .065 (2.25 x .095) *
*** 3.25 x 59.14 x .065 (2.25 x .095)

AMA Specifications Form—Passenger Car

MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85 CUTLASS CUTLASS SUPREME — 350 C.I.D.

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.		1.5025
Universal joints	Make and Mfg. No.		Saginaw Steering Gear
	Number used		Two
	Type (ball and trunnion, cross)		Cross
	Rear attach. (u-bolt, clamp, etc.)		Bolt and Strap
	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 – 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			Two
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Collapsing Spacer
Wheel bearing type			Roller
Lubricant	Capacity (pt.)		4.25
	Type recommended		Texaco TL-3450 (Std.) Mobile XRP 464 BD-M (L.S.)
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	90

AXLE RATIO TOOTH COMBINATIONS

(See page 4 for axle ratio usage)

Axle ratio		2.73	3.08	3.23
No. of teeth	Pinion	15	13	13
	Ring gear	41	40	42
Ring Gear O.D.		8.500	8.500	8.500

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MODEL F-85 / CUTLASS / CUTLASS SUPREME

DRIVE UNITS — TIRES AND WHEELS (STANDARD)

TIRES	Size, load range, ply		F78 x 14 B/2 + 2
	Type (bias, radial, etc.)		Bias Belted
	Normal max. load inflation pressure (cold)	Front	26
		Rear	28
	Rev./mile @ 45 mph		781/791
WHEELS	Type & material		Welded Steel
	Rim (size & flange type)		14 x 6JJ
	Attachment	Type (bolt or stud)	Stud
		Circle diameter	4.75
		Number & size	5 x 7/16 - 20
	Spare wheel (same or other)		

DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		G70 x 14 B/2 + 2
Type (bias, radial, etc.)		Bias Belted
Normal max. load inflation pressure (cold)	Front	26
	Rear	28
Rev./mile @ 45 mph		772/786
Wheel type & material		Welded Steel
Rim (size & flange type)		14 x 7JJ

DRIVE UNITS — TIRES AND WHEELS (OPTIONAL)

Size, load range, ply		G78 x 14 B/2 + 2
Type (bias, radial, etc.)		Bias Belted
Normal max. load inflation pressure (cold)	Front	26
	Rear	28
Rev./mile @ 45 mph		768/778
Wheel type & material		Welded Steel
Rim (size & flange type)		14 x 6JJ

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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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85 CUTLASS CUTLASS SUPREME

BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)					Drum
Self adjusting (std., opt., N.A.)					Std.
Special Valving	Type (proportion, delay, metering, other)				Warning
Power brake make & type (remote, int., etc.)		Std.			--
		Opt.			Delco Moraine Integral
Effective area (sq. in.) *					141.8
Gross lining area (sq. in.) **					149.8
Swept area (sq. in.) ***					268.8
Effectiveness		Front			65% Front
		Rear			
Drum	Diameter (nominal)	Front			9.5
		Rear			9.5
	Type and material				Front - Centrifugal Cast in Steel Shell Rear - Composite - Optional
Rotor	Outer working diameter				--
	Inner working diameter				--
	Thickness				--
	Material & type (vented/solid)				--
Wheel cylinder bore	Front				1.12
	Rear				.88
Master Cylinder	Bore				1.0
	Stroke				N.A.
Pedal arc ratio					6.23 to 1
Line pressure at 100 lb. pedal load					720
Shoe Clearance	Front				.015
	Rear				.015
Anti-skid device type (std., opt., N.A.)					N.A.
Brake lining	Bonded or riveted				Riveted
	Front Wheel	Material			Bendix H3140G - Primary, H3179 - Secondary
		Size (length x width x thickness)	Prim. or outboard		7.63 x 2.50 x .190
			Second. or inboard		9.91 x 2.50 x .270
		Segments per shoe			One
	Rear Wheel	Material			Bendix H3140G - Primary, H3179 - Secondary
		Size (length x width x thickness)	Prim. or outboard		7.63 x 2.00 x .190
			Second. or inboard		9.91 x 2.00 x .270
		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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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85 CUTLASS CUTLASS SUPREME

STEERING

Manual (std., opt., NA)				Std.
Power (std., opt., NA)				Option
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt-Away
		(std., opt., NA)		Option
Wheel diameter		Manual		15.50
		Power		15.50
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		46.63
		Curb to curb (l. & r.)		42.90
	Inside rear	Wall to wall (l. & r.)		26.07
		Curb to curb (l. & r.)		26.75
Manual	Gear	Type		Ball Nut
		Make		Saginaw Steering Gear
		Ratios	Gear	28.0:1
			Overall	32.8:1
	No. wheel turns (stop to stop)			6.20
Power	Type (coaxial, linkage, etc.)			Gear (Variable Ratio)
	Make			Saginaw Steering Gear
	Gear	Type		Ball Nut
		Ratios	Gear	16.0:13.0:1
			Overall	18.8:16.2
	Pump driven by			Belt from Crank
	No. wheel turns (stop to stop)			3.06
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 comber (deg.)			8° @ 1° Camber
	Bearings (type)	Upper		Ball Joint
		Lower		Ball Joint
		Thrust		Ball Joint
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			-1 1/4° Neg. ± 1°
	Camber (deg.)			1/4° Pos. L.H.; 1/4° Neg. R.H. ± 3/4°
	Toe-in (outside trock inches)			0° ± 1/8
Steering spindle & joint type				Ball Joint
Wheel Spindle	Diameter	Inner bearing		1.250
		Outer bearing		.750
	Thread size			3/4 - 20
	Bearing type			Tapered Roller

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85 CUTLASS CUTLASS SUPREME

SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		None
Provision for brake dip control		Anti-Dive Suspension Design
Provision for acc. squat control		Anti-Squat Rear Suspension
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 5160
	Size (coil design height & I.D.; bar length x dia.)	* 11.3 Design Height 3.60 I.D.
	Spring rate (lb. per in.)	*
	Rate at wheel (lb. per in.)	*
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE 1070 - .937 Dia.

SUSPENSION – REAR

Type and description			Four Link Coil Springs
Drive and torque taken through			Arms
Spring	Type		Coil
	Material		SAE 5160
	Size (length x width, coil design height & I.D.; bar length & dia.)		* 7.62 Design Height 5.50 I.D.
	Spring rate (lb. per in.)		*
	Rate at wheel (lb. per in.)		*
	Mounting insulotion type		Rubber
	If leaf	No. of leaves	None
		Shackle (comp. or tens.)	None
Stabilizer	Type (link, linkless, frameless)		None
	Material & bar diameter		None
Track bar type			None

* Computer selected according to vehicle weight and suspension options.

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85
CUTLASS
CUTLASS SUPREME

FRAME

Type and description (Separate frame, unitized frome, partially - unitized frame)	Channel Section Side Rail Four Cross Bars

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 pratection - type							Key Type Starting - Steering Column Lock
Vent window control method (crank, friction pivot)	Front						Crank (Except 112.0 Wheelbase Cars)
	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 expased surface area		1330.1	1290.4	1288.9	1330.1	1290.4	1290.4
Side glass exposed surface area		1908.7	1886.8	1890.4	1545.3	1597.0	2014.0
Backlight glass exposed surface area		1105.5	1022.4	655.7	1105.5	1481.4	1481.4
Total glass exposed surface area		4344.3	4199.6	3835.0	3980.9	4368.8	4785.8
		A	B	C	D	E	F

A - Hardtop Sedan - 39
B - Hardtop Coupe - 57
C - Convertible - 67
D - Town Sedan - 69
E - Sports Coupe - 77
F - Hardtop Coupe - 87

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

MODEL F-85 CUTLASS CUTLASS SUPREME

CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Option
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		Four Way Option
Reclining front seat back (R-L or both)		N.A.
Front seat head restrainer (R-L or both)		Standard
Radios (specify type as well as availability)		Deluxe AM, AM-FM Mono, AM-FM Stereo, Tape Combination Option
Rear seat speaker		Option
Power antenna		N.A.
Clock		Option
Air conditioner (specify type and availability)		Option
Speed warning device		Option
Speed control device		Option
Ignition lock lamp		N.A.
Dome lamp		Standard
Glove compartment lamp		Option
Luggage compartment lamp		Option
Underhood lamp		Option
Courtesy lamp		Option
Map lamp		Option
Auto. trans. quad. lamp		Option
Cornering light lamp		N.A.
Rear window defroster electrically heated		Option
Rear window defogger		N.A.
Dual Brake Warning		Standard
Hazard Warning		Standard
Anti-Theft Buzzer		Standard
Anti-Theft Lock		Standard

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp (H125)	Highest *	
		Lowest	
	Tail (H126)	Highest	
		Lowest	
	Sidemarker	Front	
		Rear	
Distance from C/L of car to center of bulb	Headlamp	Inside	
		Outside *	
	Tail	Inside	
		Outside	
	Directional	Front	
		Rear	

* If single headlamps are used enter here.

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•) 10-15-71

F-85
CUTLASS
CUTLASS SUPREME

VEHICLE WEIGHTS

Model	CURB WEIGHT* (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT** (Pounds)	
				Pass. In Front		Pass. In Rear			
	Front	Rear	Total	Front	Rear	Front	Rear		
D69	1975	1549	3524						
F87	1946	1537	3483						
G69	1992	1555	3547						
G77	1952	1539	3491						
G87	1968	1540	3508						
J39	2028	1606	3634						
J57	1964	1535	3499						
J67	2005	1627	3632						

*Reference – SAE Aerospace-Automotive drawing standards, Section E 1.02 (d).

**Shipping weight definition –

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MAKE OF CAR OLDSMOBILE MODEL YEAR 1972 DATE ISSUED 8-2-71 REVISED (•)

F-85
CUTLASS
CUTLASS SUPREME

OPTIONAL EQUIPMENT WEIGHTS

Equipment Differential Weights	WEIGHT (Pounds) Front	Rear	Total	Remarks
HMT			21	
Power Steering			29	
Power Brakes			10	
A/C			125	
Radio			7.8	
455 C.I.D.			92	
W30			159	

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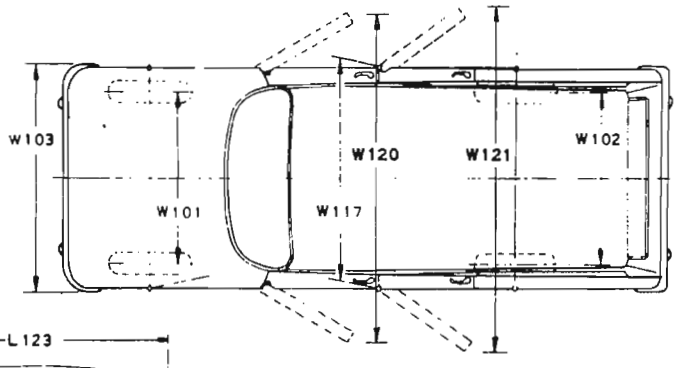
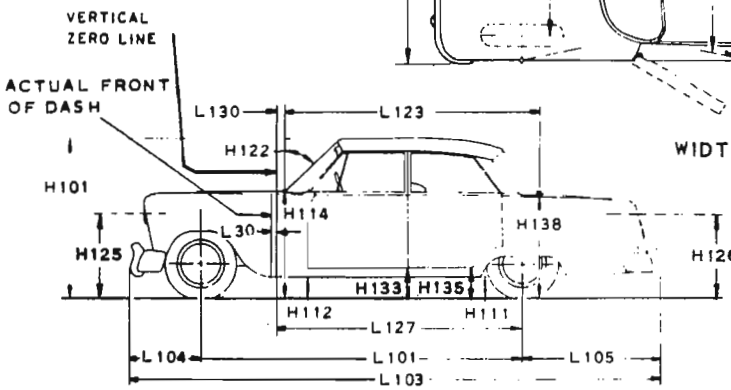
CAR AND BODY DIMENSIONS

KEY SHEET

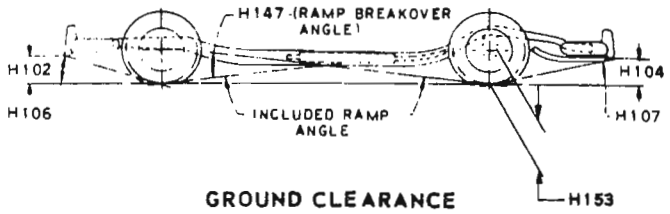
EXTERIOR CAR AND BODY DIMENSIONS



WIDTH

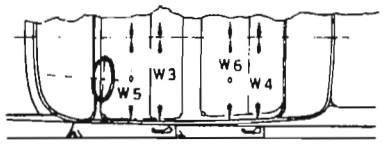


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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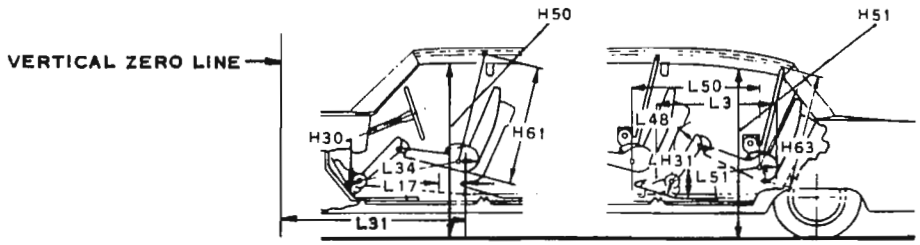
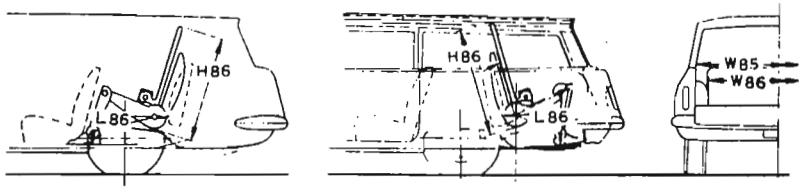
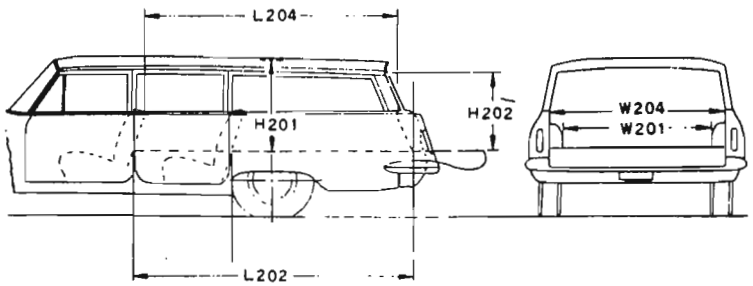




THIRD SEAT



CARGO SPACE

EXTERIOR CAR AND BODY DIMENSIONS
KEY SHEET
DIMENSION DEFINITIONS

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.

W120 MAXIMUM OVERALL CAR WIDTH, FRONT DOORS OPEN is measured to outside of sheet metal with front doors in maximum hold-open position.

W121 MAXIMUM OVERALL CAR WIDTH, REAR DOORS OPEN is measured in same manner as W120.

LENGTH DIMENSIONS.

L30 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.

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 rocker panel, excluding flanges. Measured to the outside of sheet metal at foremost point of rocker panel.

H133 BOTTOM OF DOOR TO GROUND, CLOSED – FRONT is the same point on the door as H132 dimension, with door closed.

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.

H135 BOTTOM OF DOOR TO GROUND, CLOSED – REAR is measured in same manner as H133.

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 an 18-inch chord.

H125 HEADLAMP CENTERLINE TO GROUND is measured vertically to the center of the upper lamp.

H126 TAILLAMP CENTERLINE is measured vertically from ground to the centerline of the upper bulb.

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 loaded 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.

H153 REAR AXLE DIFFERENTIAL SYSTEM TO GROUND is a minimum clearance.

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

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INTERIOR CAR AND BODY DIMENSIONS
KEY SHEET
DIMENSION DEFINITIONS

FRONT COMPARTMENT DIMENSIONS

L31 H POINT TO VERTICAL ZERO LINE – FRONT is a horizontal dimension.

H61 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.

L34 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 occelerator 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.

H30 H POINT TO HEEL POINT – FRONT. The vertical dimension from the H Point to the Acceleratar Heel Point.

L17 H POINT TRAVEL. The horizontal dimensian between the H Point in the most forward and rearward seat positians.

W3 SHOULDER ROOM – FRONT. The minimum lateral dimensions between the door garnish moldings or nearest interference, measured at the H Point station.

W5 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.

H50 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

L50 H POINT COUPLE DISTANCE. The horizontal dimension from the front seat H Point to the rear seat H Point.

H63 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.

L51 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.

H31 H POINT TO HEEL POINT – REAR. The vertical dimension from the H Point to the Manikin Heel Point on the depressed floor covering.

L48 MINIMUM KNEE ROOM – REAR. The minimum dimension from the Manikin knee pivot center to the back of the front seat back.

L3 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.

W4 SHOULDER ROOM – REAR. The minimum lateral dimension between the door garnish molding or nearest interference. Measured at H Paint station.

W6 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.

H51 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

V1 LUGGAGE CAPACITY – USABLE. The total luggage compartment luggage capacity in cubic feet with the tire and tools in place.

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

W85 SHOULDER ROOM – THIRD SEAT. The minimum lateral dimension between the door garnish moldings or nearest interference. Measured at H Point station.

W86 HIP ROOM – THIRD SEAT. The lateral dimension through H Point to trimmed surfaces.

L86 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.

H86 EFFECTIVE HEAD ROOM – THIRD SEAT. The dimension from 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 moximum 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.

V2 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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