AMA–40A

AMA Specifications—Passenger Car

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MANUFACTURER	CAR NAME	
Cadillac Motor Car Division	Cadillac	
MAILING ADDRESS	MODEL YEAR	ISSUED: 10-15-68
2860 Clark	1969	REVISED (e)

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.

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

			Vehicle No.
69347	Eldorado	6 Passenger	H9100000

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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. 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.	69347 - Eldorado
WIDTH		
Track – Front	W101	63.5
Track – Rear	W102	63.0
Maximum overall car width	W103	79.9
Body width at No. 2 pillar	W117	
LENGTH		
Body "O" to front of dash	L 30	
Wheelbase	L101	120.0
Overall car length	L103	221.0
Overhang – front	L104	44.1
Overhang – rear	L105	56.9
Body upper structure length	L123	103.2
Body "O" line to ℄ of rear wheel	L127	95.6
Body "O" line to w/s cowl point	L130	5.1
HEIGHT		
Passenger Distribution (front & rear)		3 Pass. F & 3 Pass. R
Trunk/Cargo load (lbs.)		
Overall height	H101	53.7
Cowl height	H114	38.2
Deck height	H138	
Rocker panel – front: To ground	H112	
Rocker panel – front: From front wheel ℄	H112	
Rocker panel – rear: To ground	H111	
Rocker panel – rear: From rear wheel ℄	H111	
Windshield slope angle	H122	59 Degrees
GROUND CLEARANCE		
Bumper to ground – front	H102	10.6
Bumper to ground – rear	H104	12.6
Angle of approach	H106	16.0 Degrees
Angle of departure	H107	15.7 Degrees
Ramp breakover angle	H147	10.7
Min. running clearance (Specify)	H156	5.4

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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.	69347 - Eldorado
FRONT COMPARTMENT		
Effective head room	H61	37.8
Max. eff. leg room – accelerator	L34	40.9
H Point to Heel point	H30	
H Point travel	L17	
Shoulder room	W 3	57.3
Hip room	W 5	61.2
Upper body opening to ground	H50	
REAR COMPARTMENT		
H Point couple distance	L50	
Effective head room	H63	37.6
Min. effective leg room	L51	36.2
H Point to Heel point	H31	
Min. knee room	L48	
Rear Compartment room	L 3	
Shoulder room	W 4	55.8
Hip room	W 6	54.2
Upper body opening to ground	H51	
LUGGAGE COMPARTMENT		
Usable luggage capacity	V 1	
Liftover height	H195	
Position of spare tire storage		
Method of holding lid open		
STATION WAGON – THIRD SEAT		
Shoulder Room	W85	None Available
Hip room	W86	None Available
Effective leg room	L86	None Available
Effective head room	H86	None Available
Seat facing direction		None Available
STATION WAGON – CARGO SPACE		
Cargo length at floor – front seat	L202	None Available
Cargo length at belt – front seat	L204	None Available
Cargo width – Wheelhouse	W201	None Available
Opening width at belt	W204	None Available
Maximum cargo height	H201	None Available
Rear opening height	H202	None Available
Cargo volume index (cu. ft.) $\frac{W4 \times L204 \times H201}{1728}$	V2	None Available

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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		
69347 Frt. Wheel Drive Eldorado	472	4BBL	10.5:1	375 @ 4400	525 @ 3000	Hydramatic	3.07 Std. & A/C

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MODEL 69347 - Eldorado

ENGINE – GENERAL

Type, no. cyls., valve arr.		90 Degrees - V8 - O.V.
Bore and stroke (nominal)		4.30 X 4.06
Piston displacement, cu. in.		472
Bore spacing (℄ to ℄)		5.0
No. system (front to rear)	L. Bank	2 - 4 - 6 - 8
	R. Bank	1 - 3 - 5 - 7
Firing order		1 - 5 - 6 - 3 - 4 - 2 - 7 - 8
Compres. ratio (nominal)		10.5:1
Cylinder Head Material		Cast Iron
Cylinder Block Material		Cast Iron
Cyl. Sleeve-Wet,dry,none		None
Number of mtg. points	Front	2
	Rear	1
Engine installation angle		0 Degrees
Taxable horsepower $\frac{Dia^2 \times No.\ Cyl.}{2.5}$		59.2
Publishing max. bhp* @ eng. RPM		375 @ 4400
Publishing max. torque * (lb. ft. @ RPM)		525 @ 3000
Recommended fuel regular – premium		Premium

ENGINE – PISTONS

Material			Aluminum Alloy
Description and finish			Slipper Type Cam Ground Control Expansion
Weight (piston only) oz.			27.28 Oz.
Clearance (limits)	Top land		.031 - .039
	Skirt	Top	.0006 - .0010
		Bottom	-.0014 - + .0005
Ring groove depth	No. 1 ring		.210
	No. 2 ring		.210
	No. 3 ring		.195
	No. 4 ring		None

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

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ENGINE – RINGS

Function (top to bottom)	No. 1, oil or comp.	Comp.
	No. 2, oil or comp.	Comp.
	No. 3, oil or comp.	Oil
	No. 4, oil or comp.	None
Compression	Description - material, coating, etc.	#1 Molybdenum Filled Cast Iron #2 Phosphate Coated Cast Iron
	Width	.0770 - .0785
	Gap	.013 - .025
Oil	Description - material, coating, etc.	Multi-Piece Steel Chrome - Plated Rail
	Width	.1795 - .1880
	Gap	.015 - .055
Expanders		Yes

ENGINE – PISTON PINS

Material			SAE - 1018 Steel
Length			3.030
Diameter			.9994 - .9997
Type	Locked in rod, in piston, floating, etc.		Locked in Rod
	Bushing	In rod or piston	None
		Material	None
Clearance	In piston		.00005 - .00015
	In rod		Press Fit
Direction & amount offset in piston			.060 Toward Max. Thrust

ENGINE – CONNECTING RODS

Material		G.M. 84M Arma Steel
Weight (oz.)		28.86 Oz.
Length (center to center)		6.75
Bearing	Material & Type	M-400 Aluminum - Steel Backed
	Overall length	.826
	Clearance (limits)	.0005 - .0028
	End play	.008 - .016 (Total Two Rods)

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ENGINE – CRANKSHAFT

Material			Nodular Cast Iron
Vibration damper type			Rubber Absorption
End thrust taken by bearing (No.)			#3 Center Main
Crankshaft end play			.002-.012
Main bearing	Material & type		M-400 Aluminum Steel Backed
	Clearance		.0001-.0026
	Journal dia. and bearing overall length	No. 1	3.250-1.1925
		No. 2	3.250-1.0595
		No. 3	3.250-1.067 (Inside) 1.258 (Outside)
		No. 4	3.250-1.0595
		No. 5	3.250-1.1925
		No. 6	None
		No. 7	None
	Dir. & amt. cyl. offset		R.H. Forward .47 L.H. Rearward - .47
Crankpin journal diameter			2.500

ENGINE – CAMSHAFT

Location			Center of V
Material			G.M. 120M Cast Iron
Bearings	Material		Steel Backed Babbitt
	Number		5
Type of Drive	Gear or chain		Silent Chain
	Crankshaft gear or sprocket material		Sintered Iron G.M. 3884M
	Camshaft gear or sprocket material		Die Cast Aluminum - Nylon Gear
	Timing chain	No. of links	48
		Width	.750
		Pitch	.500

ENGINE – VALVE SYSTEM

Hydraulic lifters (Std., opt., NA)		Std.
Valve rotator, type (intake, exhaust)		None
Rocker ratio		1.65:1
Operating tappet clearance (indicate hot or cold)	Intake	Auto
	Exhaust	Auto

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ENGINE – VALVE SYSTEM (cont.)

Timing (based on top of ramp points)	Intake	Opens (°BTC)	18 Degrees	.001 Lift
		Closes (°ABC)	114 Degrees	.001 Lift
		Duration - deg.	312 Degrees	.001 Lift
	Exhaust	Opens (°BBC)	70 Degrees	.001 Lift
		Closes (°ATC)	58 Degrees	.001 Lift
		Duration - deg.	308 Degrees	.001 Lift
	Valve opening overlap			
Intake	Material		1041 Steel	
	Overall length		5.230	
	Actual overall head dia.		2.000	
	Angle of seat & face		Seat in Head 45 Degrees	Valve Face 44 Degrees
	Seat insert material		None	
	Stem diameter		.3412 - .3425	
	Stem to guide clearance		.0005 - .0025	
	Lift (@ zero lash)		.440	
	Outer spring press. & length	Valve closed (lb.@in.)	60-65 @ 1.946	
		Valve open (lb.@in.)	155 - 165 @ 1.496	
	Inner spring press. & length	Valve closed (lb.@in.)	None	
		Valve open (lb.@in.)	None	
Exhaust	Material		21-2 & GMR 241M	
	Overall length		5.245	
	Actual overall head dia.		1.625	
	Angle of seat & face		Seat 45 Degrees	Face 44 Degrees
	Seat insert material		None	
	Stem diameter		.3415 - .3420	
	Stem to guide clearance		.0010 - .0025	
	Lift (@ zero lash)		.454	
	Outer spring press. & length	Valve closed (lb.@in.)	60-65 @ 1.946	
		Valve open (lb.@in.)	155-165 @ 1.496	
	Inner spring press. & length	Valve closed (lb.@in.)	None	
		Valve open (lb.@in.)	None	

ENGINE – LUBRICATION SYSTEM

Type of lubrication (splash, pressure, nozzle)	Main bearings	Pressure
	Connecting rods	Pressure
	Piston pins	Splash
	Camshaft bearings	Pressure
	Tappets	Pressure
	Timing gear or chain	Metered Centrifugal Flow
	Cylinder walls	Splash

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ENGINE – LUBRICATION SYSTEM (cont.)

Oil pump type	Spur Gear
Normal oil pressure (lb. engine rpm)	35-40 @ 30 MPH
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.)	5 Qts. & 1 Qt. Filter
Oil grade recommended (SAE viscosity and temperature range)	+ 32°F. SAE 20W-10W30 0°- + 32° F. SAE 10W - 10W30 Below 0°F SAE 5W-5W20
Engine Service Reqmt. (MM, MS, etc.)	MS-G.M. 6031M

ENGINE – EXHAUST SYSTEM

Type (single, single with cross-over, dual, other)		Single with Crossover
Muffler No. & type (reverse flow, straight thru, separate resonator)		Reverse Flow Exhaust System
Exhaust pipe dia. (O.D., wall thick.)	Branch	Exhaust 2.24 - 2.50
	Main	Intermediate 2.50 .036 - .048 Laminated
Tail pipe dia. (O.D. & wall thickness)		

ENGINE – CRANKCASE VENTILATION SYSTEM

Type (ventilates to atmos., induction system, other)		Standard	Induction
		Optional	None
Control Unit	Make and model		AC Spark Plug Division
	Location		
	Energy source (manifold vacuum, carburetor air stream, other)		Manifold Vacuum
	Control method (variable orifice, fixed orifice, other)		Spring Loaded Valve - Variable Orifice
Complete system	Discharges (to intake manifold, carb. air intake, air cleaner intake, other)		Intake Manifold
	Air inlet (breather cap, carburetor air cleaner, other)		Air Cleaner
	Flame arrestor (screen, check valve, other)		Check Valve

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ENGINE – EXHAUST EMISSION CONTROL

Type (Air injection, engine modifications, other)			Air Injection Type
Air Injection Pump	Type		Saginaw Steering Gear
	Displacement		19.3 Cu. In.
	Drive ratio		1.2:1
	Drive type		Belt
	Relief valve (type)		None
	Filter (describe)		Centrifugal Seperator
Air Injection System	Air distribution (head, manifold, etc.)		Manifold
	Point of entry		Cylinder Head
	Injection tube I.D.		.579
	Check valve type		Diaphram (Delco)
	Backfire protection (type)		RPD Diverter & Integral Relief
Carburetor	Make		Rochester
	Model		4 BBL 4MV
	Barrel size		Pri. 1.375 Sec. 2.250
	Idle speed	Drive	550 Drive (A/C Off)
		Neutral	-
	Idle A/F mixture		-
Distributor	Aux. Adv. Systems (type)		None
	Make		Delco Remy
	Model		1111239
	Cent'fgal adv. in crank degrees @ eng. rpm	Start (rpm)	0° @ 600 RPM
		Intermed. points deg. @ rpm	14.5° - 18.5° @ 1950 RPM
		Max. deg. @ rpm	26 Degrees - 30 Degrees @ 4400
	Vacuum adv. in crank degrees @ eng. rpm	Start (in Hg) Intermed. points deg. @ in. Hg Max. deg. @ in.	Start 8" - 10" Int. 12° - 25.5° @ 13" 22.5° - 25.5° @ 16" Max. 25.5° @ 16"
	Vacuum Source		Carburetor
Timing - Crank degrees @ rpm			5 Degrees BTDC
Cooling System			-
Exhaust System			-

* A. Thermostatic Vacuum Adv. Switch Mounted in Cyl. Block water passages on all A/C equipped cars.

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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.)		Approx. 24
	Filler location		Back of License Plate
Fuel Pump	Type (elec. or mech.)		Mechanical
	Locations		Lower Left Side of Eng.
	Pressure range		5.25 - 6.50 @ 1800 RPM
Vacuum booster (std., optional, none)			None
Fuel Filter	Type		A.C.
	Locations		Front of Engine in Line at Outlet of Pump
Carburetor	Choke type		Remote Pocket in Manifold
	Intake manifold heat control (exhaust or water)		Exhaust
	Air cleaner type	Standard	Dry Pack Single Inlet
		Optional	-
	Idle speed (spec. neutral or drive)	Manual	-
		Automatic	550 Drive (A/C Off)
		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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ENGINE – COOLING SYSTEM

Type system (pressure, pressure vented, atmospheric, other)			Pressure
Radiator cap relief valve pressure			13.5 - 16.5
Circulation thermostat	Type (choke, bypass)		ByPass
	Starts to open at (•F)		192-199
Water pump	Type (centrifugal, other)		Centrifugal Dual Outlet
	GPM @ 1000 pump rpm		19
	Number of pumps		One
	Drive (V-belt, other)		V-Belt
	Bearing type		Double Row Ball Bearing
By-pass recirculation type (inter., ext.)			Internal
Radiator core type (cellular, tube and fin, other)			Tube & Center
Cooling system capacity	With heater (qt.)		21.3
	Without heater (qt.)		Heater Std. Equipment
	Opt. equipment-specify (qt.)		21.8 With 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)	1-Molded
		Inside diameter	1.50
	Upper	Number and type (molded, straight)	1-Molded
		Inside diameter	1.50
	By-pass	Number and type (molded, straight)	None
		Inside diameter	None
Fan	Number of blades & spacing		7 @ 54° - 50° - 45° - 40° - 48° - 64° - 59°
	Diameter		18"
	Ratio-fan to crankshaft rev.		1.1:1
	Fan cutout type		None
	Bearing type		None
*Drive belts (indicate belt used by letter)	Fan		A
	Generator or alternator		B
	Water Pump		A
	Power Steering		C
	Air Conditioning		D Matched Two Belts
			A

* Drive Belt Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	38°	38°	38°	38°							
Nominal length (SAE)	45.5	35.5	48.0	59.0							
Width	.460	.460	.380	.380							

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ELECTRICAL – SUPPLY SYSTEM

Battery	Make and Model		Delco Remy
	Voltage Rtg. & Total Plates		12 Volt - 15 Plate
	SAE Designation & Amp. Hr. Rtg.		74 Amp. Hrs. @ 20 Hr. Rate
	Location		Right Front Side - Underhood
	Terminal grounded		Negative
Generator or Alternator	Make		Delco Remy
	Model		1100734 1100803 A/C
	Type and rating		42 Amp. 55 Amp A/C
	Output at engine idle (neutral)		Change to Idle
	Ratio–Gen. to Cr/s rev.		2.75 2.85 A/C
Regulator	Make		Delco Remy
	Model		1119515
	Type		Double Contact
	Cutout relay	Closing voltage generator rpm	None
		Reverse current to open	None
	Regulated	Voltage	13.8 - 14.8 @ 100 Deg. (Adjust to 14.2)
		Current	None
	Voltage test conditions	Temperature	100 Degrees
		Load	10 Amps.
		Other	-

ELECTRICAL – STARTING SYSTEM

Starting Motor	Make			Delco Remy
	Model			1107389
	Rotation (drive end view)			Clockwise
Motor control	Switch (solenoid, manual)			Solenoid
	Starting procedure			Cold Start - Depress Acc. to Flow Turn Ign. Key to Start Position Warm Start - Depress Acc. Halfway-Hold-Turn Ign. Key to Start
Motor Drive	Engagement type			Spiral Spline & Over Running Clutch
	Pinion meshes (front, rear)			Front
	Number of teeth	Pinion		9
		Flywheel	Manual	N.A.
			Auto.	166
	Flywheel tooth face width		Manual	N.A.
			Auto.	.500

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ELECTRICAL – IGNITION SYSTEM

Type	Conventional – Std., Opt., N.A.		Std.
	Transistorized – Std., Opt., N.A.		N.A.
	Other (specify)		-
Coil	Make		Delco Remy
	Model		1115295
	Amps	Engine stopped	2.4
		Engine idling	1.25
Distributor	Make		Delco Remy
	Model		1111939
	Cent'fgal adv. in c/shaft degrees@ engine rpm (nominal)	Start (rpm)	0 Degrees @ 600 RPM
		Intermediate points deg.@rpm	14.5 Degrees - 18.5 Degrees @ 1950 RPM
		Max. deg.@rpm	26° - 30° @ 4400 PPM
	Vacuum adv. in c/shaft degrees@ in. Hg. (nominal)	Start (in. Hg.)	8" - 11"
		Intermediate points, deg.@in. Hg.	12° - 25.5° @ 13" 22.5° - 25.5° @ 16"
		Max. deg. in. Hg.	25.5° @ 16"
	Breaker gap (in.)		.016
	Cam angle (deg.)		28 Degrees - 32 Degrees
	Breaker arm tension (oz.)		19-23 oz.
Timing	Crankshaft deg.@rpm		5 Degrees BTDC
	Mark location		Crankshaft Pulley
Spark Plug	Make		A.C. Spark Plug Division
	Model		R-44N
	Thread (mm)		14MM
	Tightening torque (lb. ft.)		25 Lb. Ft.
	Gap		.035
Cable	Conductor type		Resistant Core
	Insulation type		Neoprene
	Spark plug protector		Neoprene

ELECTRICAL – SUPPRESSION

Locations & type	

Packard Electric - Dist. Resistance Wire
.3 MFD on Coil Feed Terminal
.5 MFD on Gen. Reg. Feed Terminal
Ground Straps - Trans. to Dash

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ELECTRICAL – INSTRUMENTS AND EQUIPMENT

Speed-ometer	Type	A.C. Spark Plug Division
	Trip odometer (yes,no)	Yes
Charge indicator – type		Tell-Tale
Temperature indicator – type		Gauge & Tell Tale
Oil pressure indicator – type		Tell-Tale
Fuel indicator – type		Gauge
Other		Trunk Warning Lite - Low Brake - Cruise
Wind-shield wiper	Type – Standard	Electric
	Type – Optional	-
Wind-shield washer	Type – Standard	Vacuum
	Type – Optional	-
Horn	Type	Solenoid Vibrating Diaphram
	Number used	3 + Lo "D" Opt.
	Amp draw (each)	4.5 - 5.5

DRIVE UNITS – CLUTCH (Manual Transmission)

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

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MODEL	69347 - Eldorado

DRIVE UNITS – TRANSMISSIONS

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

DRIVE UNITS – MANUAL TRANS.

Number of forward speeds			Not Available
Transmission ratios	In first		
	In second		
	In third		
	In fourth		
	In reverse		
Synchronous meshing, specify gears			
Shift lever location			
Lubricant	Capacity (pt.)		
	Type recommended		
	SAE viscosity number	Summer	
		Winter	
		Extreme cold	

DRIVE UNITS – MANUAL 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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DRIVE UNITS – AUTOMATIC TRANSMISSION

Trade name		Turbo Hydramatic
Type describe		3 Element Fixed Converter W/Step Gear Shift
Selector location		Indicator in Cluster Above Steering Column
List gear ratios Selector Pattern and indicate which are used in each selector position		Lo Gear 2.48 P-R-N-'D' - L Intermediate Gear 1.48 High Gear 1.00 Reverse 2.09
Max. upshift speed–drive range		89
Max. kickdown speed–drive range		79
Torque convertor	Number of elements	3
	Max. ratio at stall	2.03
	Type of cooling (air, liquid)	Liquid Water - To Oil
	Nominal diameter	
Lubricant	Capacity–refill (pt.)	Approx. - 5 1/2 Qts
	Type recommended	Fluid Type - Dexron
Special transmission features		Driven through a Chain from Eng. Mounted Converter

DRIVE UNITS – PROPELLER SHAFT

Number used		Two (1 Piece Right and Left)
Type (straight tube, tube-in-tube, internal-external damper, etc.)		Exposed
Outer diam. x length* x wall thickness	Manual 3-speed trans.	N.A.
	Manual 4-speed trans.	N.A.
	Overdrive transmission	N.A.
	Automatic transmission	1.25 X 17.05 - Solid

* 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)		"
Slip Yoke	Type		"
	Number of teeth		"
	Spline O.D.		"
Universal joints	Make and Mfg. No.		Saginaw
	Number used		4 Joints
	Type (ball and trunnion, cross)		(2) Tri-Pot Ball & Trunnion (2) Rzeppa (Outboard)
	Rear attach. (u-bolt, clamp, etc.)		
	Bearing	Type (plain, anti-friction)	Ball
		Lubric. (fitting, prepack)	Pre-Packed (Permanent)
Drive taken through (torque tube or arms, springs)			Frt. Suspension Arms
Torque taken through (torque tube or arms, springs)			Eng. Supports

DRIVE UNITS – AXLE

Type (front, rear)			Front
Description			
Limited Slip differential, type			Not Available
Drive Pinion Offset			None
No. of differential pinions			2
Pinion adjustment (shim, other)			Shim
Pinion bearing adj. (shim, other)			Shim
Wheel bearing type			Not Applicable
Lubricant	Capacity (pt.)		.563 Gal.
	Type recommended		Extreme Pressure Mineral Oil
	SAE viscosity number	Summer	90
		Winter	90
		Extreme cold	90

AXLE RATIO TOOTH COMBINATIONS

(See page 3 for axle ratio usage)

Axle ratio		3.07
No. of teeth	Pinion	14
	Ring gear	43
Ring Gear O.D.		

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DRIVE UNITS – WHEELS

Type & material			Rim & Spider (SAE - 1010)
Rim (size & flange type)		Std.	15 X 6 JK
		Opt.	N.A.
Attachment	Type (bolt or stud)		Stud
	Circle diameter		5.00 In
	Number and size		5 1/2 X 20

MODEL

DRIVE UNITS – TIRES

Standard	Size, ply rating, & ply		9.00 X 15 Black
	Type (bias, radial, etc.)		
	Full rated Inflation Press.	Front	714
		Rear	24
	Rev./Mile at 50 MPH		24
Optional	Size, ply rating, & ply		9.00 X 15 White Opt.

BRAKES – PARKING

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

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BRAKES – SERVICE

Type (drum) or (disc & no. of pistons)					Disc Frt. - Single - Drum R.
Self adjusting (std., opt., N.A.)					Std.
Special Valving	Type (proportion, delay, metering, other)				Metering / Proportioning
Power brake make & type (remote, int., etc.)		Std.			Delco Tandem
		Opt.			-
Effective area (sq. in.) *					38.36F / 80R
Gross lining area (sq. in.) **					42.28F / 84 R
Swept area (sq. in.) ***					224 F / 138 R
Front to Rear Effectiveness Relationship					62-69%
Drum	Diameter (nominal)	Front			
		Rear			11.0
	Type and material				Full Cast Iron Finned Drum
Rotor	Outer working diameter				11.0
	Inner working diameter				6.91
	Working width				1.205
	Material & type (vented/solid)				Full Cast Iron - Vented
Wheel cylinder bore	Front				2 15/16
	Rear				7/8
Master Cylinder	Bore				1.125
	displacement distribution	Front	%		73.6%
		Rear	%		26.4%
Pedal arc ratio					3.28:1
Line pressure at 100 lb. pedal load					1350 PSI Disc
Shoe Clearance	Front				None
	Rear				.015
Brake lining	Bonded or riveted				Riveted
	Front Wheel	Material			DM 5470 Molded Asbestos
		Size (length x width x thickness)	Prim. or outboard		5.4 X 1.93 X .41
			Second. or inboard		5.34 X 1.93 X .43
		Segments per shoe			1
	Rear Wheel	Material			Marshall M3144 Pri. & M 3152F Sec. Molded Asbestos
		Size (length x width x thickness)	Prim. or outboard		9.00 X 2.00 X .20
			Second. or inboard		12.00 X 2.00 X .20
		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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STEERING

Manual (std., opt., NA)				N.A.
Power (std., opt., NA)				Std.
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt & Telescope
		(std., opt., NA)		Opt.
Wheel diameter		Manual		N.A.
		Power		15.5
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		44.7
		Curb to curb (l. & r.)		41.3
	Inside rear	Wall to wall (l. & r.)		23.3
		Curb to curb (l. & r.)		23.9
Manual	Gear	Type		N.A.
		Make		
		Ratios	Gear	
			Overall	
	No. wheel turns (stop to stop)			
Power	Type (coaxial, linkage, etc.)			Linkage - Variable Ratio Hydra-Pwr.
	Make			Saginaw Steering Gear
	Gear	Type		Rack Piston Convantric Valve
		Ratios	Gear	12.4 - 16.1 - 12.4
			Overall	
	Pump driven by			Belt
	No. wheel turns (stop to stop)			2.7
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Front
	Drag link (trans. or longit.)			Transverse
	Tie rods (one or two)			2
Steering Axis	Inclination at camber (deg.)			
	Bearings (type)	Upper		Spherical Joints
		Lower		Spherical Joints
		Thrust		Spherical Joints
Whl. Align. (range at curb wt. & preferred)	Caster (deg.)			
	Camber (deg.)			
	Toe-in (outside track inches)			
Steering spindle & joint type				Spherical Joints
Wheel Spindle	Diameter	Inner bearing		
		Outer bearing		
	Thread size			
	Bearing type			

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SUSPENSION – GENERAL

(See Supplement page for details on Air Suspension)

Provision for car leveling		Frt. - Torsion Bar Adj. Rear Auto Level Control
Provision for brake dip control		Anti-Dive Design of Suspension
Provision for acc. squat control		No Torque at Rear Wheels
Special provisions for car jacking		Bumper Type
Shock absorber front & rear	Type	Direct Action
	Make	Delco
	Piston dia.	1"
Other special features		

SUSPENSION – FRONT

Type and description		Independent Torsion Bar
Spring	Type	Torsion Bar
	Material	SAE 5160 H
	Size (coil design height & I.D. bar length x dia.)	1.062 Dia. X 54.71 Long
	Spring rate (lb. per in.)	438 In. Lb./Deg.
	Rate at wheel (lb. per in.)	115
Stabilizer	Type (link, linkless, frameless)	Link
	Material & bar diameter	SAE 1070 1 1/16 Dia.

SUSPENSION – REAR

Type and description			Single Leaf Spring - 4 Shock Absorber
Drive and torque taken through			Frt. Wheel Drive
Spring	Type		Single Leaf
	Material		SAE 5160 Steel
	Size (length x width, coil design height & I.D.; bar length & dia.)		3" Dia. X 63.25
	Spring rate (lb. per in.)		95 Lbs/In
	Rate at wheel (lb. per in.)		95 Lbs/In
	Mounting insulation type		Rubber Bushing Shackles & Rubber Insulator
	If leaf	No. of leaves	One
		Shackle (comp. or tens.)	Compression
Stabilizer	Type (link, linkless, frameless)		None
	Material		None
Track bar type			None

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FRAME

Type and description (Separate frame, unitized frame, partially - unitized frame)	Boxed Perimeter Frame Extending to Rear of Passenger Compartment. Integral Construction Rear of Passenger Compartment.

BODY – MISCELLANEOUS INFORMATION

Drs. hinged (front, rr.)	Front doors	Front
	Rear doors	-
Type of finish (lacquer, enamel, other)		Acrylic
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		External
Vehicle Indent. No. location		Windshield Lwr. Frame - Left Side - Trans. & Eng.
Engine No. location		Rear Upper Portion of Cyl. Block - L. Side of Trans.
Theft protection - type		Ign. Key Start With Steering Lock. Door Lock & Ign. Warning Buzzer
Vent window control method (crank, friction pivot)	Front	None
	Rear	None
Seat cushion type	Front	Zig Zag Spring
	Rear	Zig Zag Spring
	3rd seat	-
Seat back type	Front	Zig Zag Spring
	Rear	Zig Zag Spring
	3rd seat	-
Windshield glass type (i.e., single curved - laminated plate)		Compound Curve - Laminated
Side glass type (i.e., curved - tempered plate)		Curved Tempered
Backlight glass type (i.e., compound curved - tempered plate, three piece)		Curved Tempered
Windshield glass exposed surface area		1372.6
Side glass exposed surface area		1757.6
Backlight glass exposed surface area		844.0
Total glass exposed surface area		3974.2

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CONVENIENCE EQUIPMENT

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

Power windows	Side windows	Std.
	Vent windows	N.A.
	Backlight or tailgate	N.A.
Power seats (specify type as well as availability)		Std. 6-Way Power (Opt. 4-Way Bucket Seat)
Reclining front seat back (R-L or both)		Opt. on Bucket Seat - Pass. Only
Front seat head restrainer (R-L or both)		Both
Radios (specify type as well as availability)		Delco Radio AM - AM/FM - FM Stereo
Rear seat speaker		With Radio Option
Power antenna		With Radio Option
Clock		Std.
Air conditioner (specify type and availability)		Auto Climate Control - Optional
Speed warning device		N.A.
Speed control device		Opt.
Ignition lock lamp		N.A.
Dome lamp		Std.
Glove compartment lamp		Std.
Luggage compartment lamp		Std.
Underhood lamp		N.A.
Courtesy lamp		Std.
Map lamp		Std.
Auto. trans. quad. lamp		Std.
Cornering light lamp		Std.
Heater & Defroster Lamp		Std.
Rear Window Defogger		Opt.

LAMP HEIGHT AND SPACING

Height above ground to center of bulb or marker	Headlamp	Highest *	25.54
		Lowest	
	Tail	Highest	28.14
		Lowest	
	Sidemarker	Front	18.33
		Rear	23.46
Distance from C/L of car to center of bulb	Headlamp	Inside	20.37
		Outside *	26.76
	Tail	Inside	33.25
		Outside	-
	Directional	Front	34.48
		Rear	33.25

* If single headlamps are used enter here.

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WEIGHTS

	CURB WEIGHT * POUNDS			% PASS. WEIGHT DISTRIBUTION				LIQUID WEIGHT	
				Pass. In Front		Pass. In Rear			
	Front	Rear	Total	Front	Rear	Front	Rear	Fuel	Coolant
Model									
69347	2816	1912	4728					146.4	44.4

Accessories & Equipment Differential Weights				Remarks
Air Conditioning	122.5	2.5	125.0	
Radio	11.0	4.2	15.2	AM
	11.4	4.2	15.6	AM-FM
	14.5	5.0	19.5	AM-FM-Stereo
Door Locks	8.5	3.3	11.8	
6-Way Seat	7.7	4.2	11.9	
Power Trunk	-	8.0	8.0	
Cruise Control (Vac)	5.0	.5	5.5	
Padded Roof	1.4	5.6	7.0	

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

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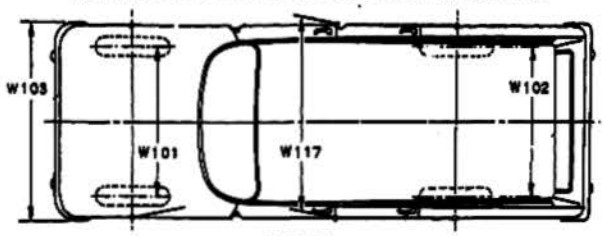
CAR AND BODY DIMENSIONS
KEY SHEET

EXTERIOR CAR AND BODY DIMENSIONS



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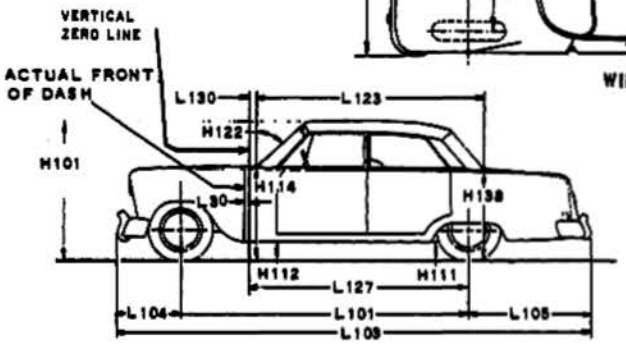
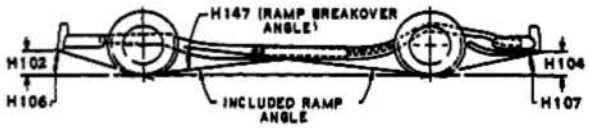
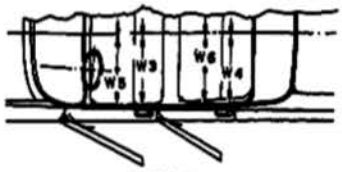


LENGTH & HEIGHT



GROUND CLEARANCE

INTERIOR CAR AND BODY DIMENSIONS



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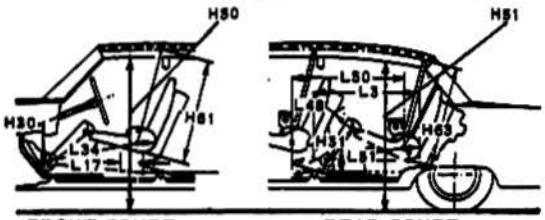
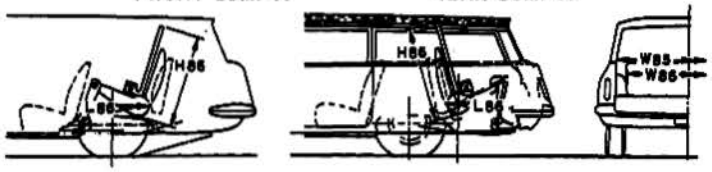
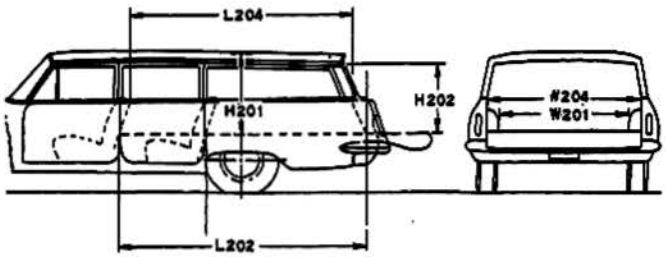


FRONT COMPT. REAR COMPT.



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 rocker 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 an 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 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.

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.

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 Point 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 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 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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