Specifications Form Passenger Car

1983

METRIC (U.S. Customary)

Manufacturer	Car Line	
CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	CHEVROLET	
Mailing Address CHEVROLET ENGINEERING CENTER 30003 VAN DYKE WARREN, MICHIGAN 48090	**Model Year** 1983	**Issued:** SEPTEMBER, 1982 **Revised (*)** FEBRUARY, 1983

Revised sheets- 3, 3A, 4A, 5, 5A, 8, 8A, 9, 9A, 10, 10A, 11, 11A, 12, 13, 17, 21, 23

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NOTE:
1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
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 linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds)
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*)

Car Models

Model Description	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No of Designated Seating Positions (Front/Rear)		Max Truck/Cargo Load—Kilograms (Pounds)
CHEVROLET		Model Number	Front/Rear - 3rd		
IMPALA 4-Door Sedan		1BL69	3	3	90.7 (200.0)
CAPRICE CLASSIC 4-Door Sedan		1BN69	3	3	90.7 (200.0)
4-Door Station Wagon, 3-Seat		1BN35	3	3-2	

NOTE: Any specifications on the following pages specific to California requirements are indicated accordingly.

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Power Teams (indicate whether standard or optional)

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

SERIES AVAILABILITY	ENGINE						TRANSMISSION	@ AXLE RATIO (std. first) (indicate A/C ratio)	
	Displ. Liters (in³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N - m (lb. ft.)	Exhaust System*		Base	Opt.
Base-All Exc. Calif. Sedans	V6 3.8 Liter (229 CID) LC3	2	8.6:1	110 @ 4000	190 @ 1600	S	Auto-'250c' - Base	2.56/ 2.73*#	3.23$
Base - Calif. Only Sedans	V6 3.8 Liter (231 CID) LD5	2	8.0:1	110 @ 3800	190 @ 1600	S	Auto-'350c' - Base	2.73	3.23
Avail. - All States Avail.-Sedans	V8 5.0 Liter (305 CID) LG4	4	8.6:1	150 @ 4000	240 @ 2400	S	Auto-'250c' - Base@	2.41#	3.08$
							Auto-700-R4 - Base %	2.73#	
Base - Station Wgns							Auto-700-R4 - Base	2.73#	3.08$
Avail. - All States Sedans	V8 5.7 Liter (350 CID) LF9	Fuel Inj. Die-sel	22.1:1	105 @ 3200	200 @ 1600	S	Auto-'350c' - Base	2.41¢	
							Auto 200-4R - Opt.	2.93¢	
Station Wagons							Auto-'350c' - Base	2.56	
							Auto 200-4R - Opt.	2.93¢	

* - 2.73:1 axle required with A/C, optional without A/C.
¢ - Air conditioning mandatory (RPO C60) when NA6 is ordered.
@ - 191 mm (7-1/2") ring gear for sedans; 222 mm (8-3/4") ring gear for wagons, SEO vehicles and limited slip axles.
# - NA5 meets high altitude standards, NA6 not released.
$ - Requires NA6.
% - '700-R4' transmission will replace '250c' transmission interim 1983.
# - Not available in California.

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Engine Description/Carb. Engine Code	3.8 LITER V6 (229 CID) 2-BBL CARBURETOR RPO LC3	3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5

ENGINE — GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.)		90° "V" - Front - Logitudinal Number of mounting points Two - front One - rear	
No. of cylinders		6	
Bore		94.92 (3.736)	96.5 (3.80)
Stroke		88.39 (3.48)	86.4 (3.40)
Bore spacing (c/l to c/l)		111.8 (4.40)	107.7 (4.24)
Cylinder block material		Cast alloy iron	
Cylinder block deck height		229.2 (9.025)	242.8 (9.56)
Deck clearance (minimum) (above or below block)		.635 (.025) below	1.91 below
Cylinder head material		Cast alloy iron	
Cylinder head volume (cm^3)			
Head gasket thickness (compressed)		.533 (.021)	
Minimum combustion chamber volume (cm^3)		58.9 (3.59)	87.65
Cyl. no. system (front to rear)*	L. Bank	1-3-5	
	R. Bank	2-4-6	
Firing order		1-6-5-4-3-2	
Recommended fuel (leaded, unleaded, diesel)		Unleaded	
Fuel antiknock index $\frac{(R+M)}{2}$		87	
Total dressed engine mass (wt) dry**		205.6 (453.2)	207.3 (457.0)

Engine — Pistons

Material	Cast aluminum alloy	
Mass, g (weight, oz.) — Piston Only	502 (17.71)	508 (17.92)

Engine — Camshaft

Location	In block above crankshaft		
Material (kg., weight, lbs.)	Cast alloy iron		
Mass (kg., weight, lbs.)	3.171 (6.99)	3.097 (6.83)	
Type of drive (chain or belt)	Width	15.87 (.625), Chain	22.23 (.875)
	Pitch	12.7 (.500)	9.53 (.375)

* Rear of engine — drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Dressed engine mass (weight) includes the following:

All those items necessary to make the engine a complete ready-to-run unit.

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Engine Description/Carb. Engine Code	5.0 LITER V8 (305 CID) 4-BBL. CARUBURETOR RPO LG4	5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9

ENGINE — GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, etc.)		90° "V" - Front - Longitudinal Number of mounting points. Two - front One - rear	
No. of cylinders		8	
Bore		94.92 (3.736)	103.05 (4.057)
Stroke		88.39 (3.48)	85.98 (3.385)
Bore spacing (c/l to c/l)		111.8 (4.40)	117.5 (4.625)
Cylinder block material		Cast alloy iron	
Cylinder block deck height		229.4 (9.025)	
Deck clearance (minimum) (above or below block)		.635 (.025) below	
Cylinder head material		Cast alloy iron	
Cylinder head volume (cm^3)			
Head gasket thickness (compressed)		.533 (.021)	
Minimum combustion chamber volume (cm^3)		58.9 (3.59)	
Cyl. 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	
Recommended fuel (leaded, unleaded, diesel)		Unleaded	Diesel #2 summer, #1 winter
Fuel antiknock index $\frac{(R+M)}{2}$		87	
Total dressed engine mass (wt) dry**		274.3 (605.0)	315.3 (695.0)

Engine — Pistons

Material	Cast aluminum alloy
Mass, g (weight, oz.) — Piston Only	502 (17.7)

Engine — Camshaft

Location		In block above crankshaft	
Material (kg., weight, lbs.)		Cast alloy iron	Cast iron conkorall
Mass (kg., weight, lbs.)		3.969 (8.75)	4.950 (10.91)
Type of drive (chain or belt)	Width	15.87 (.625) Chain	14.48 (.570)
	Pitch	12.7 (.500)	12.7 (.500)

* Rear of engine — drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Dressed engine mass (weight) includes the following:

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Engine Description/Carb. Engine Code	3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3	3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5

Engine — Valve System

Lifters (std., opt., n.a.)	Hydraulic	Standard
	Solid	Not available

Engine — Connecting Rods

Material & mass (kg., weight, lbs.)	1037 or 1038 steel .600 (1.323)	Cast arma steel .680 (1.500)

Engine — Crankshaft

Material (kg., weight, lbs.)	Nodular cast iron	
Mass (kg., weight, lbs.)	17.576 (38.75)	15.980 (35.23)
End thrust taken by bearing (no.)	4	2

Engine — Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	345-488 (50-65) @ 2000	310 (45)
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full flow	
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)	

Engine — Diesel Information

Glow plug current drain at 0°F		
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Supplementary vacuum source (type)		

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[illegible]	5.0 LITER V8 (305 CID) 4-BBL. CARBURETOR RPO LG4	5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9

Engine — Valve System

Lifters (std., opt., n.a.)	Hydraulic	Standard
	Solid	Not available

Engine — Connecting Rods

Material & mass (kg., weight, lbs.)	1037 or 1038 steel .662 (1.460)	SAE 1140 steel .880 (1.940)

Engine — Crankshaft

Material (kg., weight, lbs.)	Nodular cast iron	
Mass (kg., weight, lbs.)	23.360 (51.50)	26.333 (58.05)
End thrust taken by bearing (no.)	5	3

Engine — Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	345-448 (50-65) @ 2000	207-310 (30-45) @ 1500
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part., other)	Full flow	
Capacity of c/case, less filter-refill-L (qt.)	4.5 (5.0)	7.1 (7.5)

Engine — Diesel Information

Glow plug current drain at 0°F		18 amps
Injector nozzle	Type	Poppet
	Opening pressure (kPa (psi))	8450+/-690 (1225+/-100 PSI)
Pre-chamber design		Side exit
Fuel injection pump	Manufacturer	Stanadyne/cav
	Type	High pressure rotary
Supplementary vacuum source (type)		V-Belt driven pump

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Engine Description/Carb. Engine Code	3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3	3.8 LITER V6 (231 CID) 2-BBL CARBURETOR RPO LD5

Engine — Fuel System (See supplemental page for details of Fuel injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			Carburetor	
Carburetor	Mfgr.		Rochester	
	Choke (type)		Electric	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Not Available	
			--	
		Automatic	2200 RPM (Park or Neutral)	
			(Fast idle speed)	
Idle A/F mix.			Preset-no adjustment provided	
Fuel injection	Point of injection (no.)		--	
	Constant, pulse, flow		--	
	Control (electronic, mech.)		--	
	System pressure (kPa (psi))		--	
Intake manifold heat control (exhaust or water) thermostatic or fixed			Exhaust	
Air cleaner type	Standard		Replaceable paper element, single snorkel	
	Optional		--	
Fuel pump	Type (elec or mech.)		Mechanical	Electric
	Location (eng., tank)		Lower right front	Lower left front
	Pressure range (kPa (psi))		31-41 (4.5-6.0)	29-40 (4.25-5.75)

Fuel Tank

Capacity (refill L (gallons))		95 (25.0) sed (A); 83.3 (22.0) - s.w. (approximately)
Location (describe)		Underbody behind rear axle
Attachment		Two straps to underbody
Material		Steel
Filler pipe	Location & material	Rear - sedans; L.R. quarter panel - station wagon
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		
Return line (material)		
Vapor line (material)		Steel
Extended range tank	Opt., n.a.	
	Capacity (L (gallons))	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	
	Capacity (L (gallons))	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

(A) - Diesel sedan - 98.4 (26.0)

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Engine — Fuel System (See supplemental page for details of Fuel injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			Carburetor	Fuel Injection
Carburetor	Mfgr.		Rochester	
	Choke (type)		Electric	
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	Not available	
			--	
		Automatic	500 RPM (Drive)	
			--	
Idle A/F mix.			Preset-no adjustment provided	
Fuel injection	Point of injection (no.)		--	Cylinder head, pre-chamber
	Constant, pulse, flow		--	Pulse
	Control (electronic, mech.)		--	Mechanical
	System pressure [kPa (psi)]		--	6900 kPa+/-690 (100+/-100)
Intake manifold heat control (exhaust or water) thermostatic or fixed			Exhaust	
Air cleaner type	Standard		Replaceable paper element, single snorkel	
	Optional		--	
Fuel pump	Type (elec or mech.)		Mechanical	
	Location (eng., tank)		Lower right front	
	Pressure range [kPa (psi)]		38.0-48.5 (5.5-7.0)	38-45 (5.5-6.5)

Fuel Tank

Capacity [refill L (gallons)]		95 (25.0) sed. (A); 83.3 (22.0)-s.w. (approximately)
Location (describe)		Underbody behind rear axle
Attachment		Two straps to underbody
Material		Steel
Filler pipe	Location & material	Rear - sedans; L.R. quarter panel - station wagon
	Connection to tank	Solder
Fuel line (material)		Steel
Fuel hose (material)		
Return line (material)		
Vapor line (material)		Steel
Extended range tank	Opt., n.a	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a	
	Capacity [L (gallons)]	
	Location & material	
	Attachment	
	Selector switch or valve	
	Separate fill	

(A) - Diesel sedan - 98.4 (26.0)

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Engine – Cooling System

Coolant recovery system (std., opt., n.a.)			Standard	
Coolant fill location (rad., bottle)			Bottle	
Radiator cap relief valve pressure [kPa (psi)]			103.4 (15.0)	
Circulation thermostat	Type (choke, bypass)		Choke	
	Starts to open at °C (°F)		91 (195)	
Water pump	Type (centrifugal, other)		Centrifugal	
	GPM 1000 pump rpm		14	
	Number of pumps		One	
	Drive (V-belt, other)		V-belt	
	Bearing (type)		Sealed double row ball	
By-pass recirculation [type (inter., ext.)]			Internal	External
Radiator core [type (cross-flow vertical cellular tube and fin, other) and material]			Cross flow	
Cooling system capacity	With heater—L(qt.)		13.46 (14.23)	11.16 (11.80)
	With air cond.—L(qt.)		13.40 (14.16)	11.08 (11.71)
	Opt. equipment [specify—L(qt.)]		13.46 (14.23) H.D. Radiator	11.14 (11.77) H.D. Radiator
Water jackets full length of cyl. (yes, no)			Yes	
Water all around cylinder (yes, no)			Yes	
Radiator core	Standard	Width	528.3 (20.8)	
		Height	431.0 (17.0)	
		Thickness	31.5 (1.24)	
		Fins per inch	4.65	
	A/C	Width	528.3 (20.8)	
		Height	431.0 (17.0)	429.7 (16.9)
		Thickness	31.5 (1.24)	25.0 (.98)
		Fins per inch	4.55	6.35
	Heavy duty	Width	528.3 (20.8)	
		Height	431.0 (17.0)	
		Thickness	31.5 (1.24)	
		Fins per inch	6.2	
Fan (standard)	Number of blades & type (flex, solid, material)		Four (4), staggered	Five (5) staggered
	Diameter & projected width		483 (19.0)	508 (20.0)
	Ratio (fan to crankshaft rev.)		1.09 (1.43 H/D Alternator	1.14
	Fan cutout type		None	
	Drive [type (direct, remote)]		V-belt - one	
	Fan shroud (material)			
Fan (electric)	Diameter & projected width			
	RPM at idle			
	Motor rating (wattage)			
	Motor switch (type & location)			
	Switch point (temp., pressure)			
	Fan shroud (material)			
Fan (optional)	No. of blades and spacing		Five (5) staggered	
	Diameter & projected width		508 (20.0)	
	Ratio (fan to crankshaft rev.)		1.09 (1.43 H/D alternator)	1.14
	Fan cut-out (type)		Thermostatically controlled clutch	clutch
	Drive (type, direct, remote)		V-belt - one	

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Engine — Cooling System

Coolant recovery system (std., opt., n.a.)			Standard	
Coolant fill location (rad., bottle)			Bottle	
Radiator cap relief valve pressure [kPa (psi)]			103.4 (15.0)	
Circulation thermostat	Type (choke, bypass)		Choke	Bypass
	Starts to open at °C (°F)		91 (195)	
Water pump	Type (centrifugal, other)		Centrifugal	
	GPM 1000 pump rpm		14	
	Number of pumps		One	
	Drive (V-belt, other)		V-belt	
	Bearing (type)		Sealed double row ball	
By-pass recirculation [type (inter., ext.)]			Internal	External
Radiator core [type (cross-flow vertical cellular tube and fin, other) and material]			Cross flow	
Cooling system capacity	With heater—L(qt.)		14.64 (15.47)	17.13 (18.11)
	With air cond.—L(qt.)		14.57 (15.4)	17.26 (18.24)
	Opt. equipment [specify—L(qt.)]		15.33 (16.2)	17.32 (18.31)
Water jackets full length of cyl. (yes, no)			Yes	
Water all around cylinder (yes, no)			Yes	
Radiator core	Standard	Width	668.0 (26.3)	718.8 (28.3)
		Height	429.7 (16.9)	429.7 (16.9)
		Thickness	25.0 (0.98)	40.2 (1.58)
		Fins per inch	6.35	8.47
	A/C	Width	--	--
		Height	--	--
		Thickness	--	--
		Fins per inch	--	--
	Heavy duty	Width	668.0 (26.3)	
		Height	429.7 (16.9)	
		Thickness	40.2 (1.58)	
		Fins per inch	6.35	
Fan (standard)	Number of blades & type (flex., solid, material)		Four (4), staggered	
	Diameter & projected width		483 (19.0)	
	Ratio (fan to crankshaft rev.)		1.09 (1.43 with H/D alternator)	--
	Fan cutout type		None	
	Drive [type (direct, remote)]		V-belt - one	
	Fan shroud (material)			
Fan (electric)	Diameter & projected width			
	RPM at idle			
	Motor rating (wattage)			
	Motor switch (type & location)			
	Switch point (temp., pressure)			
	Fan shroud (material)			
Fan (optional)	No. of blades and spacing		Five (5), staggered	Five (5), staggered
	Diameter & projected width		508 (20.0)	483 (19.0)
	Ratio (fan to crankshaft rev.)		1.09 (1.43 with H/D alternator)	--
	Fan cut-out (type)		Thermostatically controlled clutch	Clutch
	Drive (type, direct, remote)		V-belt - one	

(a) - S.W. w/RPO LG4 engine in Calif.
- 40.2 (1.58)

(c) - 7 blade with RPO V08 heavy duty radiator

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Engine Description/Carb. / Engine Code	3.8L V6 229 CID RPO LC3	3.8L V6 231 CID RPO LD5	5.0L V8 305 CID RPO LG4	5.7L V8 350 CID RPO LE9
Vehicle Emission Control				
Exhaust Emission Control — Type (air injection, engine modifications, other)	Air injection w/computer command control			
Air injection — Pump (type)	vane			
Air injection — Driven by	V-belt			
Air injection — Air distribution (head, manifold, etc.)	Manifold Converter	Cyl. Heads & Cat. Converter	Manifold Converter	
Air injection — Point of entry	Exh. Manifold	Intake Manif.	Exh. Manifold	
Exhaust Gas Recirculation — Type (controlled flow, open orifice, other)	Pulse width modulated (#)			
Exhaust Gas Recirculation — Exhaust source	Manifold exhaust crossover			
Exhaust Gas Recirculation — Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold			
Catalytic Converter — Type	Dual Bed (b)	Single Bed (b)	Dual Bed (b)(c)	
Catalytic Converter — Number of	One			
Catalytic Converter — Location(s)	Beneath underbody			
Catalytic Converter — Volume [L (in^3)]	2.78 (169.8)	4.13 (252)	2.78 (169.8)	
Catalytic Converter — Substrate type	Monolith	Pellets	Monolith (c)	
Crankcase Emission Control — Type (ventilates to atmosphere, induction system, other)	Induction system			
Crankcase Emission Control — Energy source (manifold vacuum, carburetor, other)	Manifold vacuum			
Crankcase Emission Control — Discharges (to intake manifold, other)	Inlet manifold			
Crankcase Emission Control — Air inlet (breather cap, other)	Carburetor air cleaner			
Evaporative Emission Control — Vapor vented to (crankcase, canister, other) — Fuel tank	Canister			
Evaporative Emission Control — Vapor vented to (crankcase, canister, other) — Carburetor	Canister			
Evaporative Emission Control — Vapor Storage provision (crankcase, canister, other)	Canister			

Engine — Exhaust System	LC3 Engine	LD5 Engine
Type (single, single with cross-over, dual, other)	Single w/crossover	
Muffler no. & type (reverse flow, straight thru, separate resonator)	One, reverse flow	
Resonator no. & type	None	
Exhaust pipe — Branch o.d. wall thickness	50.8 x 1.14 (2.0 x .045)	
Exhaust pipe — Main o.d. wall thickness	57.15 x 1.8 (2.25 x .071)	
Exhaust pipe — Material	(a)	
Intermediate pipe — o.d. & wall thickness	57.15 x 1.4 (2.25 x .055)	
Intermediate pipe — Material	Aluminum coated steel tubing	
Tail pipe — o.d. & wall thickness	50.8 x 1.1 (2.0 x .043	
Tail pipe — Material	Aluminum coated tubing	

(#) - LD5 Engine, controlled flow
(a) - Laminated tubing - steel inner, stainless steel outer
(b) - Oxidizing and reducing
(c) - Single bed pellets for California

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Engine Description/Code. Engine Code	3.8L V6 229 CID RPO LC3	3.8L V6 231 CID RPO LD5	5.0L V8 305 CID RPO LG4	5.7L V8 350 CID RPO LF9

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		SEE PAGE 7.
	Air injection	Pump (type)	
		Driven by	
		Air distribution (head, manifold, etc.)	
		Point of entry	
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	
		Exhaust source	
		Point of exhaust injection (spacer, carburetor, manifold, other)	
	Catalytic Converter	Type	
		Number of	
		Location(s)	
		Volume (L (in^3))	
		Substrate type	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		
	Energy source (manifold vacuum, carburetor, other)		
	Discharges (to intake manifold, other)		
	Air inlet (breather cap, other)		
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	
		Carburetor	
	Vapor Storage provision (crankcase, canister, other)		

Engine — Exhaust System		LG4 Engine	LF9 Engine
Type (single, single with cross-over, dual, other)		Single w/crossover	
Muffler no & type (reverse flow, straight thru, separate resonator)		One, reverse flow	
Resonator no & type		None	
Exhaust pipe	Branch o.d., wall thickness	50.8 x .86 (2.0 x .034) (a)	50.8 x 1.07 (2.0 x .042)
	Main o.d., wall thickness	57.15 x 1.8 (2.25 x .071) (b)	63.5 x 1.09 (2.5 x .043)
	Material	(a) (b)	Laminated steel tubing
Intermediate pipe	o.d. & wall thickness	57.15 x 1.4 (2.25 x .055)	
	Material	Aluminum coated steel tubing	
Tail pipe	o.d. & wall thickness	(c)	57.15 x 1.09 (2.25 x .043)
	Material	Aluminum coated steel tubing	

(a) - Laminated tubing - steel inner, stainless steel outer.
(b) - Stainless steel tubing
(c) - 57.15 x 1.4 (2.25 x .055) for sedan with 3.08 axle and for wagons;
50.8 x 1.1 (2.0 x .043) for sedan with 2.73 axles.

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Passenger Car
METRIC (U.S. Customary)

Car Line CHEVROLET

Model Year 1983 Issued 7-23-82 Revised (*)

Engine Description/Carb. Engine Code	3.8L V6 229 CID RPO LC3	3.8L V6 231 CID RPO LD5	5.0L V8 305 CID RPO LG4	5.7L V8 350 CID RPO LF9

Electrical – Supply System

Battery	Voltage rtg (V & total plates)	12 V			
	Minimum reserve cranking	70 minutes (base), 90 minutes (optional)			90 Minutes (A)
	SAE capacity (amps)	355 (base), 500 (optional)			500 (base) 550 (optional
	Location	Engine compartment Right front			Engine Comp. one on each side
Generator or alternator	Type and rating	37	42	55	63
	Ratio (alt crank/rev.)	2.73:1	2.36:1	2.73:1	2.73:1
	Optional (type & rating)				
Regulator	Type	Integral with distributor			

(A) - Two (2) batteries required; connected in parallel, 115 minutes (optional)

Electrical – Starting System

Start motor	Current drain at 0°F				
Motor drive	Engagement type	Positive shift solenoid			
	Pinion engages from (front, rear)	Rear	Front	Rear	Rear

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Model Year 1983 Issued 7-23-82 Revised (*)

Engine Description/Cert. Engine Code				
	3.8L V6 229 CID RPO LC3	3.8L V6 231 CID RPO LD5	5.0L V8 305 CID RPO LG4	5.7L V8 350 CID RPO LF9

Electrical — Ignition System

Type	Conventional (std., opt., n.a.)		--			
	Transistorized (std., opt., n.a.)		--			
	Other (specify)		High Energy Ignition. (H.E.I.)			
Coil	Make		Delco Remy			
	Model		Integral with Distributor			
	Current	Engine stopped — A	--			
		Engine idling — A	--			
Spark plug	Make		AC			
	Model		R45TS	R45TS8	R45TS	Glow plug
	Thread (mm)		14 x 1.25			
	Tightening torque (N-m (lb. ft.))		--			
	Gap		1.143(.045)	2.032(.080)	1.143(.045)	
Distributor	Make		Delco Remy			
	Model		1110584			

Electrical — Suppression

Locations & type	Internal alternator capacitor, non-metallic high-tension cables, resistor spark plugs, ignition coil by-pass capacitor, internal AC blower motor by-pass capacitor & A/C compression diode, with radio provisions; hood grounding clip engine to dash panel ground strap, fuse block capacitor and on "heater only" blower motors and coax capacitor.

Electrical — Instruments and Equipment

Speedometer	Type	Rectangular dial with pointer
	Trip odometer (std., opt., n.a.)	Optional
EGR maintenance indicator		Not available
Charge indicator	Type	Tell-Tale (gauge optional)
	Warning device	Not available
Temperature indicator	Type	Tell-Tale (gauge optional)
	Warning device	Not available
Oil pressure indicator	Type	Tell-Tale (gauge optional)
	Warning device	Not available
Fuel indicator	Type	Electric Gauge
	Warning device	Not available
Windshield wiper	Type (standard)	Electric, Two-Speed
	Type (optional)	Intermittent control type
	Blade length	457.2 (18.0 in)
	Swept area (cm^2 ($in.^2$))	Sedans & Wagons 6107 (946.8 in^2)
Windshield washer	Type (standard)	Push button*
	Type (optional)	Not available
	Fluid level indicator	Not available
Horn	Type	Vibrator
	Number used	Dual-1BN00 models; one (low note) on 1BL00 models
Other		Restraint system warning light and buzzer. Parking brake and brake failure warning light. Fuel economy (vacuum) and coolant temperature gauges tripodometer in optional package.

* Fluidic type standard

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Engine Description/Carb. Engine Code	3.8L V6 229 CID RPO LC3	3.8L V6 231 CID RPO LD5	5.0L V8 305 CID RPO LG4	5.7L V8 350 CID RPO LF9

Transmissions

Manual 3-speed (std., opt., n.a.)	Not available			
Manual 4-speed (std., opt., n.a.)	Not available			
Manual 5-speed (std., opt., n.a.)	Not available			
Manual overdrive (std., opt., n.a.)	Not available			
Automatic (std., opt., n.a.)	Standard			
Automatic overdrive (std., opt., n.a.)	Not available	Not available	Standard	Optional

Manual Transmission

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

Clutch (Manual Transmission)

Make & type		Not
Type pressure plate springs		Available
Total spring load (N (lb))		--
No. of clutch driven discs		--
Clutch facing	Material	--
	Manufacturer	--
	Part number	--
	Rivets/plate	--
	Rivet size	--
	Outside & inside dia.	--
	Total eff. area (cm^2 (in^2))	--
	Thickness	--
	Engagement cushion method	--
Release bearing	Type & method of lubrication	--
Torsional damping	Method springs, friction material	--

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Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*) 2-83

Engine Description/Code. Engine Code	3.8L V6 (229 CID) 2-BBL. CARBURETOR RPO LC3	3.8L V6 (231 CID) 2-BBL. CARBURETOR RPO LD5

Automatic Transmission (See Power Teams for transmission usage)

Trade name		3-Speed Automatic	
Type (describe)		Torque converter with planetary gears '250c'/'350c'	
Selector	Location	Steering column	
	Ltr /No designation	P-R-N-D-2-1	
Gear ratios	R	1.93	
	D	1.00	
	2	1.52	
	1	2.52	
	Overdrive	Not available	
Max upshift speed - drive range (km/h (mph))		125.5 (78.0), 117.5 (73.0)	96.6 (60.0)
Max kickdown speed - drive range (km/h (mph))		119.1 (74.0), 111.0 (69.0)	91.8 (57.0)
Min overdrive speed (km/h (mph))		Not available	
Torque converter	Number of elements	3	
	Max ratio at stall	2.2	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	298 (11.75)	
Lubricant	Capacity (refill L (pt))	2.8 (6.0)	3.0 (6.3)
	Type recommended	Dexron II	
Special transmission features		Torque Converter Clutch 3rd gear	

Axle or Front Wheel Drive Unit

Type (front, rear)		Rear	
Description		Semi-floating axle, overhung hypoid drive pinion & ring gear	
Limited slip differential (type)		Disc clutch	
Drive pinion offset		7.50" R.G.-38.1 (1.50); 8.75" R.G., - 44 (1.75)	
Drive pinion (type)		Hypoid gear	
No of differential pinions		Two	
Pinion adjustment (shim, other)		Shim	
Pinion bearing adj (shim, other)		Collapsible sleeve	
Driving wheel bearing (type)		Direct or single row cylindrical	
Lubricant	Capacity (L (pt))	7.50" R.G.-1.6 (3.5); 8.75" R.G. 2.6 (5.4)	
	Type recommended	GL-5 gear lubricant	
	SAE viscosity number — Summer	80W or 80W-90	
	SAE viscosity number — Winter	80W or 80W-90	
	SAE viscosity number — Extreme cold	80W or 80W-90	

Axle or Transaxle Ratio and Tooth Combinations (See "Power Teams" for axle ratio usage)

Axle ratio or overall ratio (:1)		2.56	2.73	3.23
No of teeth	Pinion	17	15	15
	Ring gear or gear	41	41	41
Ring gear o d mm (in)		191 (7.50) (a)		222 (8.75)
Transaxle	Transfer gear ratio	--		
	Final drive ratio	--		

(a) Limited slip differential-222 (8.75)

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Passenger Car
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Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*) 2-83

Engine Description/Carb. Engine Code	5.0 LITER V8 (305 CID) 4-BBL. CARBURETOR RPO LG4	5.7 LITER V8 (350 CID) FUEL INJECTION DIESEL RPO LF9

Automatic Transmission (See Power Teams for Transmission Usage)

Trade name		3-Speed Automatic		
Type (describe)		Torque converter with planetary gears '350c'	'200-4R'	'700-R4'
Selector	Location	Steering column		
	Ltr /No designation	P-R-N-D-2-1	P-R-N-D-3-2-1	
Gear ratios	R	1.93	2.07	2.29
	D	1.00	1.00	1.00
	2	1.52	1.57	1.63
	1	2.52	2.74	3.06
	Overdrive	Not available	.67	0.70
Max upshift speed - drive range (km/h (mph))		132.0 (82.0)	72.4(45.0),128.8(80.0)	104.6 (65.0)
Max kickdown speed - drive range (km/h (mph))		125.5 (78.0)	56.3(35.0),125.5(78.0),136.8(85.0)	98.2 (61.0)
Min overdrive speed (km/h (mph))		Not available	61 (38)	64.4 (40.0)
Torque converter	Number of elements	3		
	Max ratio at stall	1.9	1.9 - 2.2 Diesel	1.9
	Type of cooling (air, liquid)	Liquid		
	Nominal diameter	298 (11.75)		
Lubricant	Capacity (refill L (pt))	3.0 (6.0)		
	Type recommended	Dexron II		
Special transmission features	Torque Converter Clutch Lock-Up	3rd gear	3rd & 4th gear	

Axle or Front Wheel Drive Unit

Type (front, rear)			Rear
Description			Semi-floating axle, overhung hypoid drive pinion and ring gear
Limited slip differential (type)			Disc clutch
Drive pinion offset			7.50" R.G. - 38.1 (1.50); 8.75" R.G. - 44 (1.75)
Drive pinion (type)			Hypoid gear
No of differential pinions			Two
Pinion adjustment (shim, other)			Shim
Pinion bearing adj (shim other)			Collapsible sleeve
Driving wheel bearing (type)			Direct or single row cylindrical
Lubricant	Capacity (L (pt))		7.5" R.G. 1.5 (3.5); 8.75" R.G. - 2.4 (5.4)
	Type recommended		GL-5 Gear lubricant
	SAE viscosity number	Summer	80W or 80W-90
		Winter	80W or 80W-90
		Extreme cold	80W or 80W-90

Axle or Transaxle Ratio and Tooth Combinations (See "Power Teams" for axle ratio usage)

Axle ratio or overall ratio		2.41	2.56	2.73	3.08	2.93
No of teeth	Pinion	17		15	13	
	Ring gear or gear	41		41	40	
Ring gear o.d		191(7.50)(a)	222(8.75)	191(7.50)(b)		
Transaxle	Transfer gear ratio					
	Final drive ratio					

(a) - Limited slip differential - 222 (8.75)
(b) - Limited slip and wagon - 222 (8.75)

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Car Line CHEVROLET
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Engine Description/Carb. Engine Code	3.8 LITER V6 (229 CID) 2-BBL. CARBURETOR RPO LC3	3.8 LITER V6 (231 CID) 2-BBL. CARBURETOR RPO LD5

Propeller Shaft — Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight tube	
Outer diam. x length* x wall thickness	Manual 3-speed trans.		Not available	
	Manual 4-speed trans.		Not available	
	Manual 5-speed trans.		Not available	
	Overdrive		Not available	
	Automatic transmission		(1)	(2)
Intermediate bearing	Type (plain, anti-friction)		None	
	Lubrication (fitting, prepack)		--	
Slip yoke	Type		Yoke	
	Number of teeth		27	
	Spline o.d.		29.858-29.883 (1.1755-1.1765)	
Universal joints	Make and mfg. no	Front	Saginaw 44	
		Rear	--	
	Number used		Two	
	Type (ball and trunnion, cross)		Cross	
	Rear attach (u-bolt, clamp, etc.)		Strap and Bolt	
	Bearing — Type (plain, anti-friction)		Anti-friction	
	Bearing — Lubric. (fitting, prepack)		Prepack	
Drive taken through (torque tube, arms or springs)			Control arm	
Torque taken through (torque tube, arms or springs)			Control arm	

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

(1) 69.9x1484.9x1.65mm (2.75x58.46x.065 in) without Limited Slip Differential.
76.2x1464.3x1.65mm (3.0x57.65x.065 in) with Limited Slip Differential.

(2) 82.6x1464.3x1.65mm (3.25x57.65x.065 in) 2.73 axle with Limited Slip Differential.
3.23 axle with and w/o Limited Slip Differential.
82.6x1484.9x1.65mm (3.25x58.46x.065 in) 2.73 axle without Limited Slip Differential.

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Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*) 2-83

Engine Description/Code. Engine Code	5.0 LITER V8 (305 CID) 4-BBL. CARBURETOR RPO LG4	5.7 LITER V8 (350 CID) DIESEL FUEL INJECTION RPO LF9

Propeller Shaft — Conventional Drive

Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight tube	
Outer diam x length* x wall thickness	Manual 3-speed trans		Not available	
	Manual 4-speed trans		Not available	
	Manual 5-speed trans		Not available	
	Overdrive		Not available	
	Automatic transmission		(3)	(4)
Intermediate bearing	Type (plain, anti-friction)		None	
	Lubrication (fitting, prepack)		--	
Slip yoke	Type		Yoke	
	Number of teeth		27	
	Spline o.d		29.858-29.883 (1.1755-1.1765)	
Universal joints	Make and mfg no	Front	Saginaw 44	
		Rear	--	
	Number used		Two	
	Type (ball and trunnion, cross)		Cross	
	Rear attach (u-bolt, clamp, etc.)		Strap and bolt	
	Bearing	Type (plain, anti-friction)	Anti-friction	
		Lubric. (fitting, prepack)	Prepack	
Drive taken through (torque tube, arms or springs)			Control arm	
Torque taken through (torque tube, arms or springs)			Control arm	

* Centerline to centerline of universal joints, or to centerline of rear attachment

(3) 76.2x1410.7x1.65mm (3.0x55.54x.065 in) 2.73 axle without Limited Slip Differential.
76.2x1384.0x1.65mm (3.0x54.49x.065 in) 2.73 axle with Limited Slip Differential.
3.08 axle with and w/o Limited Slip Differential.
76.2x1464.3x1.65mm (3.0x57.65x.065 in) All Canadian usage.
(4) Prints are not available.

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Car Line [illegible]
Model Year 1983 Issued 7-23-82 Revised (•)

Engine Description/Carb. Engine Code	SEDAN	STATION WAGON:

Tires And Wheels (Standard)

			SEDAN	STATION WAGON:
Tires	Size (load range, ply)		P205/75R15 (B/W, W/W*)	P225/75R15 (B/W, W/W*)
	Type (bias, radial, etc.)		Steel belted radial	
	Inflation pressure (cold) for *recommended* max. vehicle load	Front [kPa (psi)]	240 (35)	165 (24)
		Rear [kPa (psi)]	240 (35)	222 (32)
	Rev./mile—at 70 km/h (45 mph)		478 (769)	458 (738)
Wheels	Type & material		Short spoke disc, steel	
	Rim (size & flange type)		15x6	15x7
	Wheel offset		12.7 (0.50)	7.5 (0.30)
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	120.6 (4.75)	127.0 (5.00)
		Number & size	5-7/16-20 UNF-2B hex nuts	5-1/2-20 UNF-2B hex nuts
Spare	Tire and wheel (same, if other describe)		16x4 compact spare, T125/80D16 (without positraction) 16x4 compact spare, T145/80D16 (with Positraction and wagons)	
	Storage position & location (describe)		Sedans-horizontal front center of trunk compartment. Station wagon, vertical right rear quarter panel.	

*Sealant tire option available with w/w tire.

Tires And Wheels (Optional)

	SEDAN	STATION WAGON:
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Size (load range, ply)	P225/70R15 (w/w) (+)	
Type (bias, radial, etc.)	Steel belted radial	
Wheel (type & material)	Short spoke disc. steel	
Rim (size, flange type and offset)	15x7; 7.5 (0.30)	
Size (load range, ply)		
Type (bias, radial, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

Brakes — Parking

Type of control		Foot pedal application; "T" handle release
Location of control		Under instrument panel; left of steering column
Operates on		Rear service brake
If separate *from* service brakes	Type (internal or external)	--
	Drum diameter	--
	Lining size (length x width x thickness)	--

+ - Requires RPO F41 sport suspension.

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Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*)

Body Type And/Or *Engine Displacement*	SEDAN	STATION WAGON

Brakes — Service

Description				
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc	
	Rear (disc or drum)		Drum	
Self-adjusting (std., opt., n.a.)			Standard	
Special valving	Type (proportion, delay, metering, other)		Metering and Proportioning	
Power brake (std., opt., n.a.)			Standard	
Booster type (remote, integral, vac., hyd., etc.)			Integral low - vacuum warning switch (a)	
Anti-skid device type (std., opt., n.a.)			Not available	
Effective area [$cm^2(in^2)$]*			648 (100.5)	717 (111.1)
Gross lining area [$cm^2(in^2)$]**			717 (111.1)	792 (122.9)
Swept area [$cm^2(in^2)$]***			2127 (329.8)	2420 (375.1)
Rotor	Outer working diameter	F	279.1 (11.0)	301.2 (11.86)
		R	--	--
	Inner working diameter	F	177.8 (7.0)	197.4 (7.77)
		R	--	--
	Thickness	F	26.2 (1.03)	
		R	--	--
	Material & type (vented/solid)	F	Cast iron, vented	
		R	--	
Drum	*Diameter* (nominal)	F	--	
		R	241.3 (9.5)	279.4 (11.0)
	Type and material		Cast iron finned	
Wheel cylinder bore	Front		74.7 (2.94)	
	Rear		22.22 (.875)	23.81 (.9374)
Master cylinder	Bore		28.6 (1.13)	
	Stroke		39.6 (1.56)	
Pedal arc ratio			3.5:1	
Line pressure at 445 N (100 lb.) pedal load [kPa (psi)]				
Lining clearance per shoe	Front		Self-adjusting	
	Rear		Self-adjusting	
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Riveted; 8	
		Rivet size	5.33 x 9.12 (.210 x .359)	
		Manufacturer	Delco Moraine	
		Lining code		
		Material	Molded asbestos	
		**** Primary or out-board	137 x 48.8 x 11.81 (5.40 x 1.92 x 0.465)	
		Size Secondary or in-board	137 x 48.8 x 11.81 (5.40 x 1.92 x 0.465)	
		Shoe thickness (no lining)	Inboard 15.75 (.620); outboard 14.0 (.550)	
	Rear wheel	Bonded or riveted (rivets/seg.)	Riveted; 10-primary, 12-secondary	
		Manufacturer	Inlite	
		Lining code		
		Material	Molded asbestos	
		**** Primary or out-board	192.5x50.8x4.98(7.58x2.0x196)	225x50.8x5.6(8.86x2.0x0.22)
		Size Secondary or in-board	249.7x50.8x6.73(9.83x2.0x.265)	291x50.8x6.6(11.5x2.0x0.2
		Shoe thickness (no lining)	Pri-7.6(.30);sec-9.4(.370)	Pri-8.3(.330);sec.-9.1(.370

(a)-Hydraulic booster on station wgn. with RPO LF9 diesel engine.

* Excludes rivet holes, grooves, chamfers, etc.

** Includes rivet holes, grooves, chamfers, etc

*** Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.) (Disc brake: Square of Outer Working Dia minus Square of Inner Working Dia multiplied by Pi/2 for each brake.)

**** Size for drum brakes includes length x thickness

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Car Line CHEVROLET
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Body Type And/Or Engine Displacement	SEDAN	STATION WAGON

Steering

Manual (std., opt., n.a.)					Not available	
Power (std., opt., n.a.)					Standard and includes quick prime feature	
Adjustable steering wheel (tilt, swing, other)		Type and description			Tilt - universal jointed steering shaft at base of steering wheel - 6 position	
		(Std., opt., n.a.)			Optional	
Wheel diameter		Manual			--	
		Power			387 (15.25)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)			13.6 (44.6)	13.8 (45.3)
		Curb to curb (l. & r.)			11.8 (38.7)	12.1 (39.7)
	Inside rear	Wall to wall (l. & r.)			--	
		Curb to curb (l. & r.)			--	
Manual	Gear	Type			Not available	
		Make			--	
		Ratios	Gear		--	
			Overall		--	
	No. wheel turns (stop to stop)				--	
Power	Type (coaxial, linkage, etc.)				Integral gear with power piston & vane type pump	
	Make				Saginaw Steering Gear	
	Gear	Type			Semi-reversible recirculating ball nut	
		Ratios	Gear		14:1 (a)	13/16:1 (b)
			Overall		18:1	18.8:1 on center
	Pump (drive)				'V' belt	
	No. wheel turns (stop to stop)				3.16	3.3
Linkage	Type				Parallelogram	
	Location (front or rear of wheels, other)				Front	
	Drag links (trans. or longit.)				None	
	Tie rods (one or two)				Two	
Steering axis	Inclination at camber (deg.)				9.785 @1	
	Bearings (type)	Upper			Ball stud with non-metallic surfaces	
		Lower			Ball stud with non-metallic surfaces	
		Thrust			None	
Steering spindle & joint type					--	
Wheel spindle	Diameter	Inner bearing			31.7 (1.25)	
		Outer bearing			19.0 (0.75)	
	Thread (size)				3/4-20	
	Bearing (type)				Tapered roller	

(a) V8 sedans
(b) V6 sedans, V8 wagons

MVMA Specifications Form
Passenger Car
(METRIC (U.S. Customary)

Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*)

Body Type And/Or Engine Displacement	SEDAN	STATION WAGON

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+2° to +4°
		Camber (deg.)	0° to +1.6°
		Toe-in [outside track-mm (in.)]	+0.5° to +0.25° (1/16" to +1/4")
	Service reset*	Caster	+3° +/- 0.5°
		Camber	+0.8° +/- 0.5°
		Toe-in	+.15 +/- .05° (+1/8" +/- 1/16")
	Periodic M.V. inspection	Caster	+1° to +5°
		Camber	-0.7° to +2.3°
		Toe-in	-0.15° to +0.55° (-3/16" to +9/16")
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	
		Toe-in [outside track-mm (in.)]	
	Service reset*	Camber	
		Toe-in	
	Periodic M.V. inspection	Camber	
		Toe-in	

* Indicates pre-set, adjustable, trend set or other.

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Passenger Car
METRIC (U.S. Customary)

Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*) 2-83

Body Type And/Or Engine Displacement			SEDAN	STATION WAGON
Suspension — General				
Car leveling	Std /opt /n.a		Optional, for station wagons only (rear only)	
	Type (air, hyd., etc.)		Air	
	Manual/auto controlled		Manual	
Provision for brake dip control			Front suspension geometry	
Provision for accl squat control			Rear suspension geometry	
Special provisions for car jacking			Side lift frame jack body bolt access holes on each side of frame about 2 feet from each wheel centerline	
Shock absorber (front & rear)	Type		Direct, double acting, hydraulic	
	Make		Delco	
	Piston diameter		25 (1.0)	
Other special features			None	
Suspension — Front				
Type and description			Independent - SLA	
Travel	Full jounce		90.3mm (3.56 in)	
	Full rebound		107.7mm (4.24 in)	
Spring	Type (coil, leaf, other)		Coil	
	Material		Steel alloy	
	Size (coil design height & i.d., bar length x dia.)		241.3x102.9x3347x15.8 (9.5x4.05x131.7x0.622)	241.3x114.3x2743.2x26.8 (9.5x4.50x108.0x0.660)
	Spring rate (N/mm (lb /in))	V6-47.0(268.0)V8-52.5(300.0)	All exc. LF9-64.0(366.0)w/LF9-70.0(400.0	
	Rate at wheel (N/mm (lb /in))	V6-13.8(79.0)V8-15.5(88.0)	All exc. LF9-18.7(107.0)w/LF9-20.0(114.0	
Stabilizer	Type (link, linkless, frameless)		Link	
	Material & bar diameter		Steel-26(1.0); 29(1.14)(a)	Steel-28 (1.1)
Suspension — Rear				
Type and description			Salisbury 4-link	
Drive and torque taken through			Control arms	
Travel	Full jounce		123.0mm (4.8 in)	105.0mm (4.1 in)
	Full rebound		114.0mm (4.5 in)	108.0mm (4.2 in)
Spring	Type (coil, leaf, other)		Coil	
	Material		Steel alloy	
	Size (length x width, coil design height & i.d., bar length & dia.)		254x139.7x2961.3x13.44 (10.0x5.5x116.6x0.529)	254x139.7x2585.7x15.5 (10.0x5.5x101.8x0.069)
	Spring rate (N/mm (lb /in))		17.5(100.0),w/F40&41-27.1(155.0)	28.9(165.0),w/F40-36.8(210.0)
	Rate at wheel (N/mm (lb /in))		19.4(110.0),w/F40&41-27.2(155.0)	29.9(171.0),w/F40-35.3(202.0)
	Mounting insulation (type)		--	
	If leaf: No. of leaves		--	
	If leaf: Shackle (comp or tens.)		--	
Stabilizer	Type (link, linkless, frameless)		Link	None
	Material & bar diameter		Steel - 21.8 (0.86)(b)	--
Track bar (type)			None	

(a) Available only on station wagons
(b) Used with RPO F41 sport suspension

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*)

Body Type	SEDAN	STATION WAGON

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)			Lacquer
Hood	Hinge location (front, rear)		Rear
	Type (counterbalance, prop)		4-link type with spiral spring
	Release control (internal, external)		Internal
Trunk lid	Type (counterbalance, other)		Counterbalance
	Internal release control (elec., mech., n.a.)		Electric
Bumper front	Bar material & mass (wt.)		Steel 13.622 (30.0)
	Reinforcement material & mass (wt.)		Aluminum 5.244 (11.6)
Bumper rear	Bar material & mass (wt.)		Steel sedan 12.333 (27.2), Station wagon 11.850 (26.1)
	Reinforcement material & mass (wt.)		Aluminum sedan 4.950 (10.9), steel wagon 16.158 (35.6)
Vent window control (crank, friction, pivot, power)		Front	None
		Rear	None
Seat cushion type		Front	Formed full foam pad
		Rear	Formed full foam pad
		3rd seat	Formed full foam pad
Seat back type		Front	Formed full foam pad
		Rear	Formed full foam pad
		3rd seat	Formed full foam pad
Vehicle ident. no. location			Top left hand instrument panel pad

Passive Restraint System

Inflatable restraint system	Standard/ optional	Not Available
	Type of charging system	--
	Location (stg. whl., instru. panel, other)	--
Passive seat belts	Standard/ optional	Not Available
	Power/ manual	--
	2 or 3 point	--
	Knee bar/ lap belt	--

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Perimeter type, two crossmembers

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Model Year 1983 Issued 7-23-82 Revised (*)

Body Type	4-DOOR SEDAN	4-DOOR STATION WAGON

Convenience Equipment

Power windows	Side windows	Optional (door windows only)	
	Vent windows	Not available	
	Backlight or tailgate	Not available	standard
Power seats (specify type as well as availability)		Optional - 6 way 50/50 power bench (left only), All models - 6 way power bench, All models	
Reclining front seat back (r-l or both)		50/50 seat, passenger seat only	
Radio (specify type as well as availability)		AM, AM-FM, AM-FM Stereo, AM-FM Stereo Cassette. All optional.	
Premium sound system (specify)		Not available	
Rear seat speaker		Dual rear speakers optional with manual, included with stereo	
Power antenna		Optional	
Clock - quartz analog*		Standard 1BN00 models, Optional 1BL00 model	
Air conditioner (specify type)		Optional - Four season manual control	
Speed warning device		Not available	
Speed control device		Optional	
Ignition lock lamp		Not available	
Dome lamp		Standard	
Glove compartment lamp		Standard	
Luggage compartment lamp		Standard	Rear dome standard
Underhood lamp		Optional	
Courtesy lamp		Standard 1BN00 models, Optional 1BL00 model	
Map lamp		Optional (2) in dome - lamp	
Cornering lamp		Optional	
Rear window defroster electrically heated		Optional	
Rear window defogger		Not available	
T-bar roof (describe)		Not available	
Sun roof (describe)		Not available	
Theft protection—type		Lock mounted on steering column; locks steering wheel, transmission shift levers and ignition.	

* Digital clock optional for all models

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (•) _____

FEATURE HIGHLIGHTS

(Manufacturers selected list of special vehicle features, indicate if new or model year introduced)

BODY:

CHASSIS:

ENGINE:

ELECTRICAL:

OTHER:

MVMA Specifications Form
Passenger Car
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Car Line CHEVROLET
Model Year 1983 Issued 9-82 Revised (*) 2-83

Model	Vehicle Mass (weight)							
	CURB MASS, kg (weight, lb)*			% PASS MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb)**
				Pass in Front		Pass in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
Impala								
4-Door Sedan 1BL69 (a)	851.6 (1877)	732.5 (1615)	1584.1 (3492)					1522.9 (3357)
Caprice Classic								
4-Door Sedan 1BN69 (a)	862.3 (1901)	743.5 (1639)	1605.8 (3540)					1544.6 (3405)
4-Door, 3-Seat (b) Station Wagon 1BN35	879.5 (1938)	971.0 (214)	1850.5 (4079)					1797.7 (3963)

(a) With V6 - 229 CID 3.8 Liter Engine

(b) With V8 - 305 CID 5.0 Liter Engine

Curb Weight - The calculated weight of a vehicle with standard equipment only as designed with the additional load of oil, lubes, coolants, and fuel all filled to capacity.

Shipping Weight - Same as base curb weight, except 3 gallons of gasoline.

* Reference — SAE J1100a, Motor vehicle dimensions, curb weight definition.
** Shipping mass (weight) definition —

MVMA Specifications Form
Passenger Car
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Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg (weight, lb.) Front	Rear	Total	Remarks
Air Conditioning 4-Season	34.2 (+75.4)	1.6 (+3.5)	35.8 (+78.9)	1BL69 & LC3, V6
	33.2 (+73.2)	1.6 (+3.5)	34.8 (+76.7)	1BN69 & LC3, V6
	27.0 (+59.5)	1.6 (+3.5)	28.6 (+63.0)	1BL00 & LD5, V6
	26.0 (+57.3)	1.6 (+3.5)	27.6 (+60.8)	1BN00 & LD5, V6
	27.0 (+59.5)	1.6 (+3.5)	28.6 (+63.0)	1BL00 & LG4, LE9, V8
	26.0 (+57.3)	1.6 (+3.5)	27.6 (+60.8)	1BN00 & LG4, LE9, V8
Electric Door Locks	1.8 (+4.0)	1.4 (+3.1)	3.2 (+7.1)	4-Door Models
Power Front Seat 6-Way	2.6 (+5.7)	3.2 (+7.1)	5.8 (+12.8)	Used with AG1 or A42
Floor Mats Front & Rear	2.0 (+4.4)	1.2 (+2.7)	3.2 (+7.1)	
Carpet - Load Floor	-0.4 (-0.9)	2.6 (+5.7)	2.2 (+4.8)	1BN35
Vinyl Roof Cover	1.2 (+2.7)	2.2 (+4.8)	3.4 (+7.5)	
Power Windows	2.4 (+5.3)	2.6 (+5.7)	5.0 (+11.0)	4-Door Models
Wheel Trim Covers	0.6 (+1.3)	0.8 (+1.8)	1.4 (+3.1)	1BL00 Model

* Also see Engine — General Section for dressed engine mass (weight).

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CHEVROLET
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Optional Equipment Differential Mass (weight)*

Equipment	MASS kg (weight, lb)			Remarks
	Front	Rear	Total	
Covers - Simulated Wire Wheel	3.6 (+7.9)	3.6 (+7.9)	7.2 (+15.8)	
Covers - Deluxe Wheel Trim	4.2 (+7.3)	4.0 (+8.8)	8.2 (+18.1)	1BL69
	3.4 (+7.5)	3.4 (+7.5)	6.8 (+15.0)	1BN69
	1.0 (+2.2)	1.0 (+2.2)	2.0 (+4.4)	1BN35
Bumper Impact Strips	0.8 (+1.8)	0.8 (+1.8)	1.6 (+3.5)	
Bumper Guards	1.2 (+2.7)	1.2 (+2.7)	2.4 (+5.4)	1BL69, 1BN69
	1.2 (+2.7)	1.0 (+2.2)	2.2 (+4.9)	1BN35
Radio AM Push buttom	3.2 (+7.1)	0.6 (+1.3)	3.8 (+8.4)	
Radio AM/FM Pushbuttom	3.8 (+8.4)	0.6 (+1.3)	4.4 (+9.7)	
Radio AM/FM Stereo	5.0 (+11.0)	2.2 (+4.8)	7.2 (+15.8)	
Radio AM/FM Stereo & 8-Track Tape	5.6 (+12.4)	2.2 (+4.8)	7.8 (+17.2)	
Radio AM/FM Stereo with Cassette Tape	5.2 (+11.5)	2.2 (+4.8)	7.4 (+16.3)	

* Also see Engine — General Section for dressed engine mass (weight).

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Car Line CHEVROLET
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Optional Equipment Differential Mass (weight)*

Equipment	MASS, kg (weight, lb.)			Remarks
	Front	Rear	Total	
Auxiliary Speaker	0	1.0	1.0	
	(0)	(+2.2)	(+2.2)	
Speakers Rear Dual	0	0.8	0.8	
	(0)	(+1.8)	(+1.8)	
Roof Luggage Carrier	0	8.8	8.8	1BN35
	(0)	(+19.4)	(+19.4)	
Sport Suspension Equipment	3.0	11.4	14.4	
	(+6.6)	(+25.1)	(+31.7)	
Engine V8 305 CID RPO-LG4	43.6	3.4	47.0	1BL69, 1BN69
	(+96.1)	(+7.5)	(+103.6)	
	-8.0	-0.8	-8.8	1BN35
	(-17.6)	(-1.8)	(-19.4)	
Engine Diesel V8 350 CID RPO LF9	149.4	22.6	172.0	1BL69
	(+329.4)	(+49.8)	(+379.2)	
	149.2	22.6	171.8	1BN69
	(+328.9)	(+49.8)	(+378.7)	
	97.0	11.6	108.6	1BN35
	(+213.8)	(+25.6)	(+239.4)	

* Also see Engine — General Section for dressed engine mass (weight)

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET
Model Year 1983 Issued 9-82 Revised (*) 2-83

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice.
J1100a "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	4-Door Sedans 1BL69 1BN69	4-Door Station Wagon 1BN35
Width			
Tread (front)	W101	1568 (61.8)	1578 (62.2)
Tread (rear)	W102	1542 (60.8)	1628 (64.1)
Vehicle width	W103	1914 (75.3)	2014 (79.3)
Body width at Sg RP (front)	W117	1910 (75.2)	
Vehicle width (front doors open)	W120	3291 (129.6)	3291 (129.6)
Vehicle width (rear doors open)	W121	3470 (136.6)	3426 (134.9)
Length			
Wheelbase	L101	2945 (116.0)	
Vehicle length	L103	5386 (212.2)	5464 (215.1)
Overhang (front)	L104	1030 (40.6)	
Overhang (rear)	L105	1411 (55.6)	1489 (58.6)
Upper structure length	L123	2366 (91.3)	3506 (138.0)
Rear wheel C/L "X" coordinate	L127	2475 (97.5)	
Cowl point "X" coordinate	L125	236 (9.3)	235 (9.2)
Height **			
Passenger distribution (frt/rear)	PD1.2.3	**	
Trunk/cargo load		**	
Vehicle height	H101	1433 (56.4)	1475 (58.1)
Cowl point to ground	H114	1000 (39.4)	1007 (39.6)
Deck point to ground	H138		
Rocker panel-front to ground	H112	233 (9.2)	240 (9.4)
Bottom of door closed-front to grd	H133	295 (11.6)	
Rocker panel-rear to ground	H111	242 (9.5)	250 (9.9)
Bottom of door closed-rear to grd	H135	297 (11.7)	304 (12.0)
Ground Clearance **			
Front bumper to ground	H102	307 (12.1)	312 (12.3)
Rear bumper to ground	H104	364 (14.3)	300 (11.8)
Bumper to ground (front at curb mass (wt))	H103	333 (13.1)	
Bumper to ground (rear at curb mass (wt))	H105	382 (15.0)	311 (12.2)
Angle of approach	H106	16.7°	17.0°
Angle of departure	H107	16.5°	18.0°
Ramp breakover angle	H147	16.3°	14.3°
Rear axle differential to ground	H153	192 (7.5)	194 (7.6)
Min running ground clearance	H156	162 (6.4)	170 (6.7)
Location of min run grd clear		Rear shock absorber bracket	

All linear dimensions are in millimeters (inches) and all mass (weight) specifications are in kilograms (pounds)

** *All Vehicle Height And Ground Clearances Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.*

EPA LOADED VEHICLE WEIGHT Is The Base Vehicle Weight Plus All Coolant And Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET

Model Year 1983 Issued 7-23-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	4-Door Sedans 1BL69	4-Door Sedans 1BN69	4-Door Station Wagon 1BN35
Front Compartment				
Sg RP front, "X" coordinate	L31	1078 (42.4)		
Effective head room	H61	1003 (39.5)	997 (39.2)	1005 (39.6)
Max. eff leg room (accelerator)	L34	1072 (42.2)		
Sg RP (front to heel)	H30	220 (8.7)		
Design H-point front travel	L17	163 (6.4)		
Shoulder room	W3	1536 (60.5)	1546 (60.9)	1546 (60.9)
Hip room	W5	1398 (55.0)		1400 (55.1)
** Upper body opening to ground	H50	--		
Steering wheel angle	H18	19.0°		
Back angle	L40	26.5°		
Rear Compartment				
Sg RP Point couple distance	L50	882 (34.7)		844 (33.2)
Effective head room	H63	971 (38.2)	965 (38.0)	999 (39.3)
Min. effective leg room	L51	992 (39.1)		959 (37.8)
Sg RP (second to heel)	H31	292 (11.5)		307 (12.1)
Knee clearance	L48	91 (3.6)		51 (2.0)
Compartment room	L3	734 (28.9)		720 (28.4)
Shoulder room	W4	1537 (60.5)	1546 (60.9)	1548 (60.9)
Hip room	W6	1405 (55.3)		1398 (55.0)
** Upper body opening to ground	H51			
Luggage Compartment				
Usable luggage capacity (L (cu. ft.))	V1	592L (20.9 cu. ft.)		--
** Liftover height	H195	827 (32.6)		--

All linear dimensions are in millimeters (inches)

*** EPA Loaded Vehicle Weight, Loading Conditions*

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP)____mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET
Model Year 1983 Issued 7-23-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	
		Station Wagon - 3 Seat 1BN35

Station Wagon — Third Seat

Shoulder room	W85	1240 (48.8)
Hip room	W86	1109 (43.7)
Effective leg room	L86	782 (30.8)
Effective head room	H86	948 (37.3)
Effective T-point head room	H89	948 (37.3)
Seat facing direction	SD1	Rearward

Station Wagon — Cargo Space

Cargo length (open front)	L200	2790 (109.8)
Cargo length (open second)	L201	1907 (75.1)
Cargo length (closed front)	L202	2290 (90.2)
Cargo length (closed second)	L203	1407 (55.4)
Cargo length at belt (front)	L204	2129 (83.8)
Cargo length at belt (second)	L205	1222 (48.1)
Cargo width (wheelhouse)	W201	1224 (48.2)
Rear opening width at floor	W203	1238 (48.7)
Opening width at belt	W204	1224 (48.2)
Max. rear opening width above belt	W205	988 (38.9)
Cargo height	H201	755 (29.7)
Rear opening height	H202	729 (28.7)
Tailgate to ground height	H250	767 (30.2)
Front seat back to load floor height	H197	--
Cargo volume index — L (cu.ft.)	V2	2488L (87.9 cu. ft.) *
Hidden cargo volume — L (cu. ft.)	V4	

Hatchback — Cargo Space

Front seat back to load floor height	H197	--
Cargo length at front seat back height	L208	Not applicable
Cargo length at floor (front)	L209	--
Cargo volume index — L (cu.ft.)	V3	--
Hidden cargo volume — L (cu. ft.)	V4	--

A printed or computer tape supplement containing additional car and body dimensions and/or drawings (based in part on SAE J1100a "Motor Vehicle Dimensions") may be available from the manufacturer.

All dimensions are in millimeters (inches).

* V10 - Station wagon cargo volume index - second seat-up
1BN35 - 1428 (50.4).

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET

Model Year 1983 Issued 7-23-82 Revised (*)

METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Body Type	4-Door Sedans		4-Door Station Wagon
	1BL69	1BN69	1BN35

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location	
Front		X - Fiducial marks to vertical base grid line-front, measured horizontally from the base grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt. Y - Fiducial mark to centerline of car-front, width measurement made from centerline of car to fiducial mark located on top of the front seat adjuster mounting bolt. Z - Fiducial mark to horizontal base grid line-front, measured vertically from base grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.	
Rear		X - Fiducial mark to vertical base grid line-rear measured horizontally from base grid line to the rear fiducial mark located on rear underbody crossbar. Y - Fiducial mark to centerline of car-rear, width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar. Z - Fiducial mark to horizontal base grid line-rear, measured vertically from base grid line to the rear fiducial mark located on rear underbody crossbar.	
Fiducial Mark Number			
Front	W21	564 (22.2)	
	L54	2754 (108.4)	
	H81	509 (20.0)	
	H161	348 (13.7)	349 (13.7)
**	H163	325 (12.8)	332 (13.1)
Rear	W22	254 (10.0)	302 (11.9)
	L55	5533 (217.8)	5440 (214.2)
	H82	586 (23.1)	466 (18.2)
	H162	449 (17.7)	331 (13.0)
**	H164	431 (17.0)	319 (12.6)

* Reference – SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks – September, 1973
All linear dimensions are in millimeters (inches)

** *EPA Loaded Vehicle Weight, Loading Conditions*

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line CHEVROLET
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Car and Body Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	4-Door Sedans		4-Door Station Wagon
		1BL69	1BN69	1BN35
Glass				
Backlight slope angle (deg.)	H121	41.5°		32.5°
Windshield slope angle (deg.)	H122	53.5°		
Tumble-Home (deg.)	W122	23.0°		24.5°
Windshield glass exposed surface area [cm^2($in.^2$)]	S1	8619 (1335.9)		
Side glass exposed surface area [cm^2($in.^2$)]	S2	12004 (1860.6)		19948 (3091.9)
Backlight glass exposed surface area [cm^2($in.^2$)]	S3	5278 (818.1)		4661 (722.5)
Total glass exposed surface area [cm^2($in.^2$)]	S4	25901 (4014.7)		33228 (5150.3)
Windshield glass (type)		Curved - Laminated Plate		
Side glass (type)		Curved - Tempered Plate		
Backlight glass (type)		Curved - Tempered Plate		
Lamps and Headlamp Shape*				
Height above ground to center of bulb or marker — Headlamp (H127)	Highest**	705.6 (27.8)		705.9 (27.8)
	Lowest	706.5 (27.8)		705.0 (27.7)
Taillamp (H128)	Highest**	707.1 (27.8)		727.5 (28.6)
	Lowest	--		
Sidemarker	Front	665.0 (26.2)		664.4 (25.4)
	Rear	699.0 (27.5)		588.7 (23.2)
Distance from C/L of car to center of bulb — Headlamp	Inside	562.0 (22.1)	566.0 (22.3)	
	Outside**	737.2 (29.0)	741.2 (29.2)	
Taillamp	Inside	419.0 (16.5)	370.0 (14.6)	906.6 (35.7)
	Outside**	775.0 (30.5)	779.0 (30.7)	916.0 (36.1)
Directional	Front	721.0 (28.4)		
	Rear	775.0 (30.5)	779.0 (30.7)	916.0 (36.1)
Headlamp shape		Rectangular		

* Measured at curb mass (weight)
** If single lamps are used enter here.

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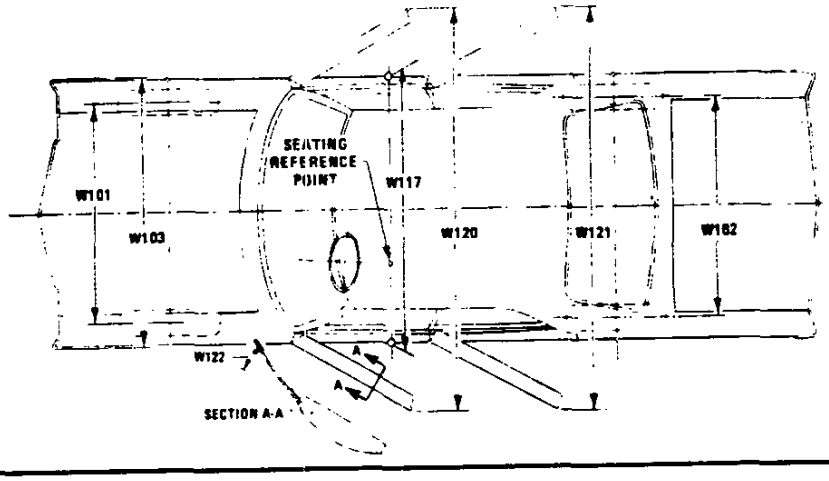
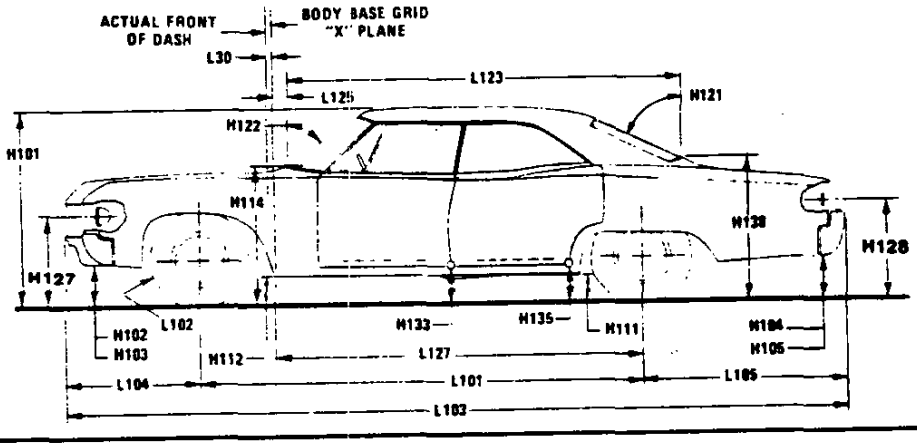
Exterior Car And Body Dimensions – Key Sheet

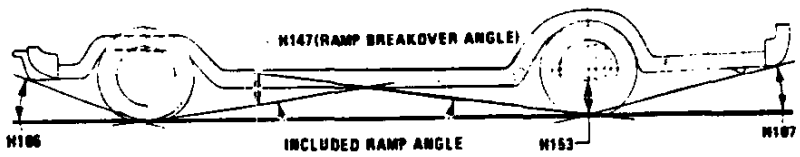
Exterior Width



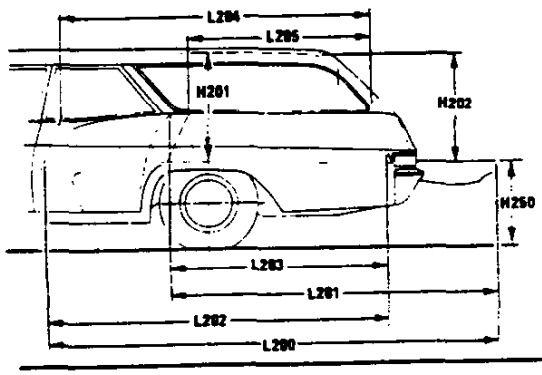
Exterior Length & Height



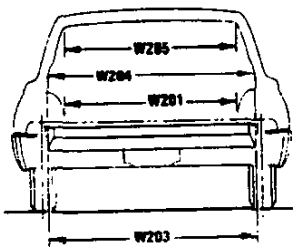
Exterior Ground Clearance

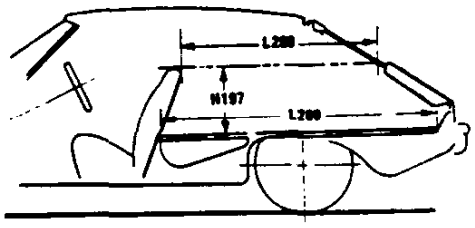


Cargo Space



Station Wagon

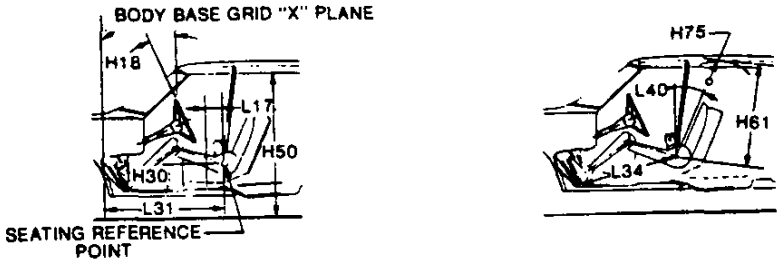




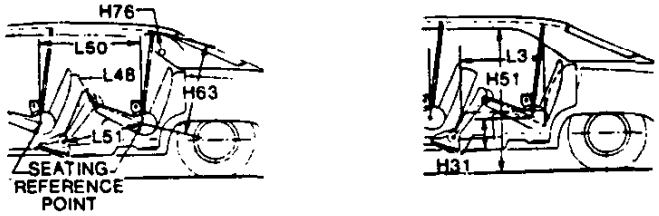
Hatchback

Interior Car And Body Dimensions – Key Sheet

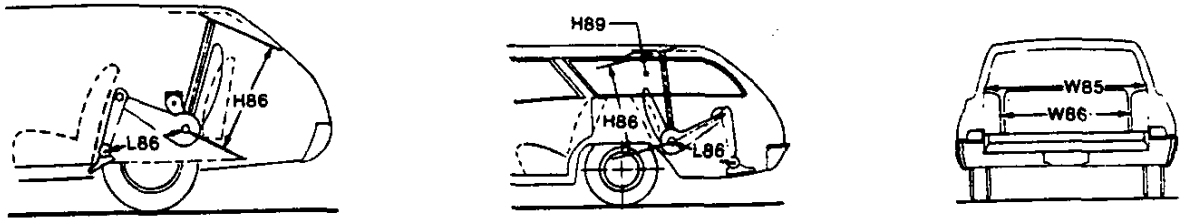
Front Compartment



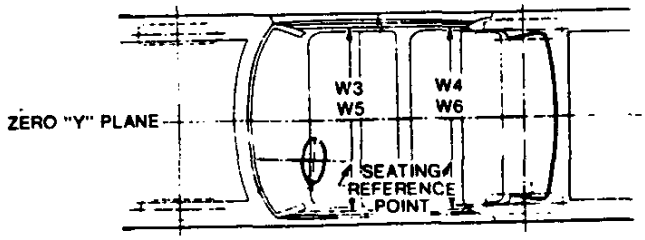
Rear Compartment



Third Seat



Interior Width



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Exterior Car And Body Dimensions — Key Sheet
Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which —
(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
(b) Has coordinates established relative to the design vehicle structure;
(c) Simulates the position of the pivot center of the human torso and thigh; and
(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Manikins for Use in Defining Vehicle Seating Accommodations," November 1962.

Width Dimensions

W101 TREAD—FRONT. The dimension measured between the tire centerlines at the ground

W102 TREAD—REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels the dimension will be measured to the centerline of tire and wheel assemblies.

W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.

W117 BODY WIDTH AT SgRP—FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques

W120 VEHICLE WIDTH—FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.

W121 VEHICLE WIDTH—REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.

W122 TUMBLE HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

L30 FRONT OF DASH "X" COORDINATE. A minus (-) dimension indicates actual front of dash in forward of the zero "X" plane.

L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.

L102 TIRE SIZE. As specified by the manufacturer.

L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L104 OVERHANG—FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and/or rub strips, if standard equipment.

L105 OVERHANG—REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle, including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.

L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be in the midpoint of the distance between the rear axle centerlines.

L125 COWL POINT "X" COORDINATE.

Height Dimensions

H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.

H114 COWL POINT TO GROUND. Measured at zero "Y" plane.

H138 DECK POINT TO GROUND. Measured at zero "Y" plane.

H112 ROCKER PANEL—FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.

H132 BOTTOM OF DOOR OPEN—FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground

H111 ROCKER PANEL—REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.

H134 BOTTOM OF DOOR OPEN—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum hold-open position, to ground

H135 BOTTOM OF DOOR CLOSED—REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.

H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield are running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in.) long drawn from the lower DLO to the intersecting point on the windshield

H127 HEADLAMP TO GROUND—CURB MASS (WT.). The dimensional measured vertically from the centerline of the lowest headlamp lens to ground.

H128 TAILLAMP TO GROUND—CURB MASS (WT.) The dimension measured vertically from the centerline of the upper bulb to ground.

Ground Clearance Dimensions

H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment

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Dimensions Definitions

H103 FRONT BUMPER TO GROUND CURB MASS (WT.). Measured in the same manner as H104.

H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.

H105 REAR BUMPER TO GROUND—CURB MASS (WT.). Measured in the same manner as H104.

H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius are the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.

H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius are the initial point of structural interference rearward of the rear tire to ground: The limiting component shall be designated.

H147 REAR BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.

H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.

H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Front Compartment Dimensions

PD1 PASSENGER DISTRIBUTION—FRONT.

L31 SgRP—FRONT "X" COORDINATED.

H61 EFFECTIVE HEAD ROOM—FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP—front to the headlining plus 102 mm (4.0 in.).

H75 EFFECTIVE T-POINT HEAD ROOM—FRONT. The minimum radius from the T-point to the headlining plus 762 mm (30 in.).

L34 MAXIMUM EFFECTIVE LEG ROOM—ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP—front plus 254 mm (10.0 in.) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.

H30 SgRP—FRONT TO HEEL. The dimension measured vertically from the SgRP—front to the accelerator heel point.

L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat trace positions.

W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within the belt line and 254 mm (10.0 in.) above the SgRP—front.

W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP—front and 76 mm (3.0 in.) fore and aft the SgRP—front.

H150 UPPER BODY OPENING TO GROUND—FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP—front "X" plane.

H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel

L40 BACK ANGLE—FRONT. The angle measured between a vertical line through the SgRP—front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.

Rear Compartment Dimensions

PD2 PASSENGER DISTRIBUTION—SECOND

L50 SgRP COUBLE DISTANCE. The dimension measured horizontally from the driver SgRP—front to the SgRP—second.

H63 EFFECTIVE HEAD ROOM—SECOND The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.)

H76 EFFECTIVE T-POINT HEAD ROOM—SECOND Measured in the same manner as H75

L51 MINIMUM EFFECTIVE LEG ROOM—SECOND The dimension measured along a line from the ankle pivot center to the SgRP—second plus 254 mm (10.0 in.)

H31 SgRP—SECOND TO HEEL The dimension measured vertically from the SgRP—second to the two dimensional device heel point on the depressed floor covering

L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot to the back of front seatback minus 51 mm (2.0 in.).

L3 COMPARTMENT ROOM—SECOND The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the SgRP—second within 254-406 mm (10.0-16.0 in.) above the SgRP—second.

W6 HIP ROOM—SECOND. Measured in the same manner as W5.

H51 UPPER BODY OPENING TO GROUND—SECOND The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP—second.

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY—Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.

H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Station Wagon — Third Seat Dimensions

PD3 PASSENGER DIRECTION—THIRD.

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W5.

W86 HIP ROOM— THIRD. Measured in the same manner as W5.

L86 EFFECTIVE LEG ROOM—THIRD. The dimension measured along a line from the ankle pivot center to the SgRP—third plus 254 mm (10.0 in.)

H86 EFFECTIVE HEAD ROOM—THIRD. The dimension measured along a line 8 deg. from the SgRP—third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).

H89 EFFECTIVE T-POINT HEAD ROOM—THIRD Measured in the same manner as H75

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Station Wagon — Cargo Space Dimensions

L200 CARGO LENGTH—OPEN—FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L201 CARGO LENGTH—OPEN—SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.

L202 CARGO LENGTH—CLOSED—FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L203 CARGO LENGTH—CLOSED—SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.

L204 CARGO LENGTH AT BELT—FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab back panel at the height of the belt, on the zero "Y" plane.

L205 CARGO LENGTH AT BELT—SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.

W201 CARGO WIDTH—WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure the sheet metal.

W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.

W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box

W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.

H201 CARGO HEIGHT. The dimension measured vertically from the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinated on the zero "Y" plane.

H202 REAR OPENING HEIGHT The dimension measured vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

H250 TAILGATE TO GROUND (CURB MASS WT.) The dimension measured vertically from the top of the undepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.

V2 STATION WAGON
Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = ft.^3$$

Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = m^3 \text{(cubic meter)}$$

V4 HIDDEN CARGO VOLUME As specified by the manufacturer.

Hatchback — Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position (For electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane

L209 CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane

V3 HATCHBACK.
Measured in inches.

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = ft.^3$$

Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = m^3 \text{(cubic meter)}$$

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Car Line _____

Model Year _____ Issued _____ Revised (•) _____