1976
MVMA
Specifications Form

Passenger Car

Manufacturer	Car Line	
Chevrolet Motor Division General Motors Corporation	CHEVROLET	
Mailing Address Chevrolet Engineering Center 30003 Van Dyke Warren, Michigan 48090	Model Year 1976	Issued: September, 1975 Revised (•) January, 1976

Revised Pages-3-19-21

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

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Car Models

Model Description	Make, Car line, Series, Body Type (Mfgr's Model Code)	Max. Number of Passengers (Front/Rear)		
IMPALA				
4-door Sport Sedan	1BL39	3	3	
2-door Custom Coupe	1BL47	3	3	
4-door Sedan	1BL69	3	3	
CAPRICE CLASSIC				
4-door Sport Sedan	1BN39	3	3	
2-door Custom Coupe	1BN47	3	3	
4-door Sedan	1BN69	3	3	
STATION WAGONS				
Impala, 4 door, 2 seat	1BL35	3	3	
Impala, 4 door, 3 seat	1BL45	3	3	2
Caprice Estate, 4 door, 2 seat	1BN35	3	3	
Caprice Estate, 4 door, 3 seat	1BN45	3	3	2

NOTE: ANY SPECIFICATIONS ON THE FOLLOWING PAGES THAT ARE SPECIFIC TO CALIFORNIA REQUIREMENTS ARE INDICATED ACCORDINGLY.

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Car and Body Dimensions See Key Sheets, Pgs. 30-33

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.

	SAE Ref. No.	Body Type: 4-door Sedan	2-Door Coupe	4-Door Spt. Sedan	Station Wagons: 2-Seat	Station Wagons: 3-Seat
Width						
Tread - Front	W101	64.1				
Tread - Rear	W102	64.0				
Maximum overall car width	W103	79.5				
Body width at No. 2 pillar	W117	79.5	--	79.5	79.5	
Max. front doors open	W120	145.5	166.8	145.5	145.5	
Max. rear doors open	W121	142.4	--	142.4	148.4	
Length						
Body C/L to front of dash	L 30	-0.5				
Wheel base	L101	121.5			125.0	
Overall car length	L103	222.7(a)			228.4(a)	
Overhang - front	L104	42.3(a)				
Overhang - rear	L105	58.9(a)			61.1(a)	
Body upper structure length	L123	110.5	100.9	109.5	147.8	
Seating C/L to C/L of rear wheel	L127	100.5			104.0	
Seating C/L line to w/s cowl point	L130	4.5				
Height						
Passenger Distribution (front & rear)	*	2-3			2-3(b)	
Trunk cargo load (lbs.)	*	0			0	
Overall height	H101	54.7	53.9	54.1	58.1	57.4
Cowl height	H114	38.6			39.0	38.9
Deck height	H138					
Rocker panel - front: To ground	H112'	8.4			8.8	8.7
Rocker panel - front: From front wheel C/L	H112'	--			--	--
Opening of front door to ground	H133	9.9	9.8	9.9	10.7	10.1
Rocker panel - rear: To ground	H111	7.8			8.7	8.0
Rocker panel - rear: From rear wheel C/L	H111	--			--	--
Bottom of rear door to ground	H135	9.7	--	9.7	10.6	9.8
Windshield slope angle	H122	59.0°				

(b)3-Seat Wagon 2-3-2

Ground Clearance

Minimum to ground - front	H102	12.1			12.1	12.5
Minimum to ground - rear	H104	12.1			12.6	11.2
Angle of approach	H106	20.36			20.11	20.18
Angle of departure	H107	14.36			14.14	13.17
Breakover angle	H147	14.15			14.07	13.58
Minimum differential to ground	H153	7.3			7.8	7.7
Minimum ground clearance (Specify)	H156	5.8*			6.4*	6.2*

* Catalytic Converter

All measurements are made at the stated passenger and trunk/cargo loadings

(a) With Impact Strips

	Sedans & Coupes	Wagons
Length	223.3	229.0
Width	42.6	42.6
Height	59.1	61.4

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Car And Body Dimensions See Key Sheets, Pgs. 30-33

	SAE Ref. No.	Body Type: 4-Door Sedan	2-Door Coupe	4-Door Spt. Sedan	Station Wagons: 2-Seat	Station Wagons: 3-Seat
Front Compartment						
H Point to body "O" line	L31			42.3		
Effective head room	H61	38.5	37.6	37.9		39.7
Effective T Point head room	H75	38.8	37.9	38.2		39.9
Max. eff. leg room - accelerator ●	L34			42.4		
H Point to Heel point ●	H30			8.5		
H Point travel	L17			5.8		
Shoulder room	W3			64.0 (a)		
Hip room	W5			59.4		59.2
Upper body opening to ground	H50	50.1	50.0	50.1	50.4	50.5
Steering Wheel Angle Vertical	H-18			20.4°		26.4°
Back Angle Front	L-40			26.5°		
Rear Compartment						
H Point couple distance	L50	36.1	33.1	36.1	36.6	34.6
Effective head room	H63	37.8	36.6	37.1	39.9	39.8
Effective T Point head room	H76	37.6	36.7	37.1		39.7
Min. effective leg room	L51	38.5	35.8	38.5	39.2	37.2
H Point to Heel point	H31	11.0	10.6	11.0		12.0
Min. knee room	L48	3.6	1.2	3.6	3.7	1.9
Rear Compartment room	L3	28.9	26.5	28.9	29.5	27.4
Shoulder room	W4	63.1	62.4	63.1		63.1
Hip room	W6	59.6	56.0	59.6		58.9
Upper body opening to ground	H51	49.1	-	48.8	50.6	49.7
Luggage Compartment						
Usable luggage capacity (cu. ft.) (+)	V1	18.9	18.1	18.9	----	
Liftover height	H195		28.7		23.6	22.2
Position of spare tire storage		Sedans and Coupes front center of trunk compartment (*)				
Method of holding lid open		Torsion rods				

(a) 63.7-1BN69 & 1BN39.

(*) Station Wagons-vertical right rear quarter panel.

(+) Corporation "H" (Shoe Box) method of measurement is used.

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Car And Body Dimensions See Key Sheets, Pgs. 30-33

	SAE Ref. No.	Body Type: STATION WAGON
Station Wagon — Third Seat		
Shoulder Room	W85	48.4
Hip room	W86	44.4
Effective leg room	L86	35.3
Effective head room	H86	37.8
Effective T Point head room	H89	37.3
Seat facing direction		Front
Station Wagon — Cargo Space		
Cargo length at floor - front seat	L202	99.8
Cargo length at belt - front seat	L204	91.3
Cargo width - Wheelhouse	W201	48.8
Opening width at belt	W204	42.0
Maximum cargo height	H201	29.5
Rear opening height	H202	27.7
Cargo volume index (cu ft) $\frac{W4 \times L204 \times H201}{1728}$	V2	98.4
Hatchback — Cargo Space		
Front Seat Back to Load Floor Height	H197	
Cargo Length at Front Seat Back Height	L208	
Cargo Length at Floor - Front Seat	L209	
Cargo volume index (cu. ft.) $\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728}$	V3	NOT APPLICABLE

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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. cu. in.	Carb.	Compr Ratio	SAE Net @ RPM BHP	SAE Net @ RPM Torque	Exhaust System*		A	B	C
Sedans & Coupes Base-all states except Calif.	350 V8 (5.7ℓ) (L65)	2-bbl	8.5:1	145 @ 3800	250 @ 2200	S	3-Speed Automatic	3.08	2.73	--
Sedans & Coupes Optional-all states	350 V8 (5.7ℓ) (LM1)	4-bbl	8.5:1	165 @ 3800	260 @ 2400	S	3-Speed Automatic	2.73	--	3.08
Sedans & Coupes Optional-all states	400 V8 (6.6ℓ) (LT4)	4-bbl	8.5:1	175 @ 3600	305 @ 2000	S	3-Speed Automatic	2.73	2.56	--
Station wagons Base-all states								3.08	2.73	--
All Models Optional-all states except California	454 V8 (7.4ℓ) (LS4)	4-bbl	8.25:1	225 @ 3800	360 @ 2400	D	3-Speed Automatic	2.73	--	--

- 'Base' and 'Optional' refer to engine
* - Positraction available optionally for all ratios
** - Same ratios available with Air Conditioning
A - Base
B - Highway option
C - High Altitude option

*S — Single D — Dual

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	Engine Displacement			
	V8-350 C.I. L65	V8-350 C.I. LM1	V8-400 C.I. LT4	V8-454 C.I. LS4
Engine — General				
Type no cyls., valve arr.	90° V-8 OHV			
Bore and stroke (nominal)	4.00 x 3.48		4.125 x 3.75	4.251 x 4.00
Piston displacement, cu. in	350		400	454
Bore spacing (C/L to C/L)	4.40			4.84
No. system (front to rear) L. Bank	1-3-5-7			
No. system (front to rear) R. Bank	2-4-6-8			
Firing Order	1-8-4-3-6-5-7-2			
Cylinder Head Material	Cast iron alloy			
Cylinder Block Material	Cast iron alloy			
Cyl. sleeve-Wet, dry, none	None			
Number of mtg. points Front	Two			
Number of mtg. points Rear	One			
Engine installation angle	4°46'			
Recommended fuel regular — premium	Unleaded			
Cylinder Head Volume (cc)	75.47		75.47	118.53
Head Gasket Thickness (Compressed)	.021		.039	.028
Head Gasket Volume (cc)	4.58		4.58	7.01
Deck Clearance (minimum) (above or below block)	.025 (below)		.025 (below)	.028 (below)
Minimum Combustion Chamber Volume (cc)	74.47		74.47	117.06

Engine — Pistons					
Material	Cast aluminum alloy				
Description and finish	Sump head; closed, slipper skirt				Flat head; valve cutout
Weight (piston only) oz.	21.33		22.88		26.40
Clearance limits: Top land	.0235 - .0325		.0365 - .0455		.0350 - .0410
Clearance limits: Skirt Top	.0007 - .0017 (a)		.0014 - .0024 (a)		.0014 - .0024 (a)
Clearance limits: Skirt Bottom	----------				
Ring groove diameter No. 1 ring	3.541 - 3.556		3.649 - 3.659		3.770 - 3.780
Ring groove diameter No. 2 ring	3.541 - 3.556		3.649 - 3.659		3.770 - 3.780
Ring groove diameter No. 3 ring	3.577 - 3.592		3.678 - 3.688		3.803 - 3.813

(a) Measured 1.56 from top of piston
Measured 1.65 from top of piston

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Engine Displacement			
V8-350 C.I. L65	V8-350 C.I. LM1	V8-400 C.I. LT4	V8-454 C.I. LS4

Engine - Piston Rings

Function (top to bottom)	No. 1, oil or comp.	Compression		
	No. 2, oil or comp.	Compression		
	No. 3, oil or comp.	Oil		
Compression	Description - material, coating, etc. Upper	Cast alloy iron, barrel face (a)		
	Description - material, coating, etc. Lower	Cast alloy iron, inside bevel, tapered face (b)		
	Width	(c)	.0770 - .0780	.0770 - .0775
	Gap	(d)	.010-.020	.010 - .020
Oil	Description - material, coating, etc.	Multi-piece (2 rails and 1 spacer expander) Rails - steel, chrome plated OD; expander - stainless steel		
	Width (Assembled)	.1850 - .1870	.1850 - .1870	.1845 - .1865
	Gap	.015 - .055	.010 - .035	.010 - .025
Expanders		In oil ring assembly		

Engine - Piston Pins

Material		Chromium steel		
Length		2.990 - 3.010		2.930 - 2.950
Diameter		.9270 - .9273		.9895 - .9898
Type	Locked in rod, in piston, floating, etc.	Locked in rod		
	Bushing - In rod or piston	None		
	Bushing - Material	-----		
Clearance	In piston	.00025 - .00035		.00030 - .00040
	In rod	-----		
Direction & amount offset in piston		Major thrust side .060		

Engine - Connecting Rods

Material		Drop forged steel		
Weight (oz.)		13.70	21.44	27.84
Length (center to center)		5.695 - 5.705	5.560 - 5.570	6.130 - 6.140
Bearing	Material & Type	Premium aluminum		
	Overall length	.797		.847
	Clearance (limits)	.0013 - .0025		.0009 - .0025
	End Play	.006 - .016	.008 - .014	.0015 - .023

(a) Chrome plated on V8-350; wear resistant coating and molybdenum inlay on V8-400 and V8-454; also graphite impregnated on V8-454.
(b) Wear resistant coating and chrome plating on V8-400 and V8-454
(c) Upper .0775 - .0780; lower .0770 - .0775
(d) Upper .010 - .020; lower .013 - .025

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V8-350 C.I.		V8-400 C.I.	V8-454 C.I.
L65	LM1	LT4	LS4

Engine—Crankshaft

Material			Cast nodular iron		
Vibration damper type			Rubber mounted inertia		
End thrust taken by bearing (No.)			5		
Crankshaft end play			.002 - .007		.006 - .010
Main bearing	Material & type		Steel backed insert with copper lead alloy or premium aluminum lining selected for specific application.		
	Clearance		(a)		(b)
	Journal d.a. and bearing overall length	No. 1	2.4502 x .752	2.6503 x .752	2.7504 x .992
		No. 2	2.4502 x .752	2.6503 x .752	2.7504 x .992
		No. 3	2.4502 x .752	2.6503 x .752	2.7504 x .992
		No. 4	2.4502 x .752	2.6503 x .752	2.7504 x .992
		No. 5	2.4508 x 1.180	2.6509 x 1.181	2.7505 x 1.256
		No. 6	None		
		No. 7	None		
	Dir & amt cyl. offset		None		
	No bolts/main brg. cap		10 bolts/5bearing caps		
Crankpin journal diameter			2.098-2.100		2.199-2.200

Engine—Camshaft

Location			In block above crankshaft		
Material			Cast iron alloy		
Bearings	Material		Steel backed babbitt		
	Number		5		
Type of Drive	Gear or chain		Chain		
	Crankshaft gear or sprocket material		Steel sprocket		
	Camshaft gear or sprocket material		Nylon teeth with aluminum hub		
	Timing chain	No. of links	46		50
		Width	.625		.750
		Pitch	.500		.500

(a) No. 1 - .0008 - .0020
No. 2, 3 & 4 - .0011 - .0023
No. 5 - .0017 - .0033

(b) No. 1, 2, 3 & 4 - .0013 - .0025
No. 5 - .0019 - .0035

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Engine—Valve System

			Engine Displacement		
			V8-350 C.I. L65 / LM1	V8-400 C.I. LT4	V8-454 C.I. LS4
Hydraulic lifters (Std., opt., NA)			Standard		
Valve rotator type (intake, exhaust)			Exhaust		
Push rods (dia., length, material)			.3125 x 7.724 Steel welded tubing		See note below
Rocker ratio			1.50:1		1.70:1
Operating tappet clearance (indicate hot or cold)	Intake		Zero		
	Exhaust		Zero		
Timing (based on top of ramp points)	Intake	Opens (°BTC)	28°		42°
		Closes (°ABC)	72°		94°
		Duration (deg.)	280°		316°
	Exhaust	Opens (°BBC)	78°		93°
		Closes (°ATC)	30°		61°
		Duration (deg.)	288°		334°
	Valve open overlap (deg.)		58°		103°
Intake	Material		Alloy steel, aluminized face on V8-400 & 454 (a)		
	Overall length		4.870-4.889		5.215-5.235
	Actual overall head dia.		1.935-1.945		2.060-2.070
	Angle of seat & face (deg.)		46° seat, 45° face		
	Seat insert material		None		
	Stem diameter		.3410 - .3417		.3715 - .3722
	Stem to guide clearance		.0010-.0027		
	Lift (@ zero lash)		.3900		.3983
	Outer spring press & length	Valve closed (lb. @ in.)	76 - 84 @1.70		84-96 @1.80
		Valve open (lb @ in.)	194 - 206 @1.25		210-230 @1.40
	Inner spring press & length	Valve closed (lb. @ in.)	Spring damper		
		Valve open (lb @ in.)	Spring damper		
Exhaust	Material		High alloy steel, aluminized face (also head on V8-454)		
	Overall length		4.910 - 4.930		5.345 - 5.365
	Actual overall head dia.		1.495 - 1.505		1.715 - 1.725
	Angle of seat & face (deg.)		46° seat, 45° face		
	Seat insert material		None		
	Stem diameter		.3410 - .3417		.3713 - .3720
	Stem to guide clearance		.0010 - .0027		
	Lift (@ zero lash)		.4100		.4300
	Outer spring press & length	Valve closed (lb @ in.)	76 - 84 @1.61		84 - 96 @ 1.80
		Valve open (lb. @ in.)	194 - 206 @1.16		210 - 230 @1.40
	Inner spring press & length	Valve closed (lb @ in.)	Spring damper		
		Valve open (lb @ in.)	Spring damper		

Note: Welded steel tubing with hardened steel inserts -Inlet .3125 x 8.215
(a) Head also aluminized on V8-454. -Exhaust .3125 x 9.185

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V8-350 C.I.		V8-400 C.I.	V8-454 C.I.
L65	LM1	LT4	LS4

ngine — Lubrication System

ype of brica- sh, ssure zer	Main bearings	Pressure			
	Connecting rods	Pressure			
	Piston pins	Splash			
	Camshaft bearings	Pressure			
	Tappets	Pressure			
	Timing gear or chain	Centrifugally oiled from camshaft bearing			
	Cylinder walls	Pressure jet cross sprayed			
ump type		Gear			
il pressure (lb. @ engine rpm)		32 - 40 @2000 RPM		42-46 @2000 RPM	
ss sending unit (elect. or mech.)		Electric			
oil intake (floating, stationary)		Stationary			
er system (full flow, part., other)		Full flow			
replacement (element, complete)		Complete			
acity of c/case, less filter-refill (qt.)		4			
grade recommended (SAE viscosity temperature range)		20° F and above - 20W-20, 10W-30, 10W-40, 20W-40, 20W-50 0° to 60°F - 10W, 5W-30, 10W-40, 10W-30 Below 20° F - 5W20, 5W-30			
service reqmt. (SD, SE, etc.)		SE			

ine — Exhaust system

gle, single with cross-over, ner)		Single exhaust - converter with crossover		Dual exhaust single converter with crossover	
No. & type (reverse flow, nt thru, separate resonator)		One	One; reverse flow and one resonator	Two; reverse flow and two resonators	
ator No. & type		None	One straight through	Two straight through	
(a)	Branch O. D., wall thickness	2.00 x .079 *		2.25 x .079*	
(b)	Main O. D., wall thickness	2.50 x .080 * (c)		2.50 x .071	
	Material	Stainless steel tubing -- -- -- --			
(e)	O. D. & wall thickness	2.00x.056	2.25x.056 2.25x.062	2.00 x .062 (d)	
	Material	Seamless steel, aluminum coating			

Laminated

(a) - Crossover (Exhaust pipe to converter 2.50)

(b) - Converter to muffler

( ) ller to resonator - LMI - 2.25 x .056
- LT4 - 2.25 x .062 (.085 Station Wagons)
- LS4 - Coupes & Sedans 2.00 x .062
- LS4 - Station Wagons 2.25 x .085

ation Wagon - LS4 - 2.25 x .056

Tail pipe expanded
L65 - 2.25
LMI - 3.00
LT4 - 3.00

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L65	LMI	LT4	LS4

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.)		Approximately 26; Station Wgn. 22		
	Filler location		Behind hinged rear license plate (a)		
Fuel Pump	Type (elec. or mech.)		Mechanical		
	Locations		Lower right front of engine		
	Pressure range		7.50-9.00 (b)		
Vacuum booster (std., optional, none)			None		
Fuel Filter	Type		Fine mesh plastic strainer in gas tank		
	Locations		and paper filter element in carburetor inlet		
Carburetor	Choke type		Automatic		
	Intake manifold heat control (exhaust or water)		Exhaust		
	Air cleaner type	Standard	Thermostatically controlled; oil wetted paper element		
		Optional			
	Idle speed (spec neutral or drive)	Manual	Not available		
		Automatic	600	600	600
	Idle A/F mix.		Not specified		

Carburetor Supplementary Information

Model Usage	Piston Displ.	Transmission	Carburetors Make	Carburetors Model	No. Used and Type	Barrel Size
Refer to Power Team Line-up (Page 5) for model application	350 L65	Automatic	Rochester	17056114	One; 2-bbl	1.69
	350 LMI	Automatic	Rochester	17056204 (17056504)	One; 4-bbl	1.38 Prim. 2.25 Sec.
	400 LT4	Automatic	Rochester	17056228 (17056528)	One; 4-bbl	1.38 Prim. 2.25 Sec.
	454 LS4	Automatic	Rochester	17056200	One; 4-bbl	1.38 Prim. 2.25 Sec.

NOTE: Data bracketed ( ) pertains to engine application specific to California.

(a) Left quarter panel on Station Wagons
(b) 1800 RPM at pump outlet

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V8-350 C.I.		V8-400 C.I.	V8-454 C.I.
L65	LMI	LT4	LS4

Engine — Cooling System

Type system (pressure, pressure vented, atmospheric, other)		Pressure - vented thru coolant recovery system			
Radiator cap relief valve pressure		15 PSI			
Circulation thermostat	Type (choke, bypass)	Choke			
	Starts to open at (°F)	192°-198°			
Water pump	Type (centrifugal, other)	Centrifugal			
	GPM 2000 rpm	22.7	23.3	25.8	
	Number of pumps	One			
	Drive (V-belt, other)	V-belt			
	Bearing type	Permanently lubricated double row ball			
By-pass recirculation type (inter., ext.)		Internal		External	
Radiator core type (cross-flow, vertical, cellular, tube and fin, other)		Cross flow; tube and center			
Cooling system capacity	With heater (qt.)	18	18	23	
	Without heater (qt.)	-	-	-	
	Opt. equipment-specify (qt.)	18	18	23	
Water jackets full length of cyl. (yes, no)		Yes			
Water all around cylinder (yes, no)		Yes	No	Yes	
Radiator hose	Lower — Number and type (molded, straight)	One, molded			
	Lower — Inside diameter	1.75			
	Upper — Number and type (molded, straight)	One, molded			
	Upper — Inside diameter	1.50			
	By-pass — Number and type (molded, straight)	None		One, molded	
	By-pass — Inside diameter	None		.690 - .750	
Fan	Number of blades & spacing	4-blade, staggered		7-blade	
	Diameter	19.00		19.50	
	Ratio-fan to crankshaft rev.	.949:1		1.25:1	
	Fan cutout type	Thermo-modulated clutch on V8-454 only			
	Bearing type	Double row ball			
Drive (see note)	Fan	A	B (C)	B (C)	D
	Generator or alternator	A	B (C)	B (C)	D
	Water Pump	A	B (C)	B (C)	D
		E	(E)	E (E)	F
		G	(G)	G (G)	H
			(C)	(C)	D

Used with California engines - ( ) - bracketed

Dimensions	A	B	C	D	E	F	G	H	I	J	K
Angle of V	← 34°-38° →										
Nominal length (SAE)	44.50	47.00	48.00	50.00	36.00	46.50	54.50	58.00			
	.380	.380	.380	.440	.380	.440	.380	.380			

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Passenger Car

Car Line CHEVROLET
Model Year 1976 Issued 9/75 Revised (●)

Engine Displacement	
V8-350 C.I. (L65 & LMI) V8-400 (LT4) All states, except Calif.	V8-350 (LMI) Calif. only V8-400 (LT4) Calif. only V8-454 (LS4) except Calif.

Vehicle Emission Control

			Engine modifications	Air injection
Exhaust Emission Control	Air Injection Pump	Type		Semi-articulated vane type
		Displacement		19.3 Cubic inch
		Drive ratio		1.33:1
		Drive type	Controlled	Crankshaft pulley
		Relief valve (type)		Diverter valve
		Filter (describe)		Centrifugal air cleaner
	Air Injection System	Air distribution (head, manifold, etc.)	Combustion	Manifold or exhaust pipe
		Point of entry		Manifold or exhaust pipe
		Injection tube i.d.	System	.2700
		Check valve type		Pressure plate system
		Backfire protection (type)		Diverter valve
	Exhaust Gas Recirculation System	Type (controlled flow, open orifice, other)	Controlled flow	
		Valve type	Vacuum modulated shut-off and metering valve	
		Valve location	V8-350 & 400 right rear, V8-454 left front of inlet mani	
		Control energy source	Carburetor vacuum	
		Exhaust source	Manifold exhaust crossover	
		Exhaust cooler type	None	
		Orifice no. and size	One; .030 (a)	
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold	
	Catalytic Converter System	Catalyst Type	Platinum-palladium	
		Catalyst Volume	260 cu. in.	
		Substrate type	Alumina	
		Container location	Beneath right front underbody	
	Other	Carburetor Hot Air	Thermostatically controlled air cleaner regulates and mixes heated air with incoming cold air to reduce hydrocarbon emission.	

(a) LT4 California engine-Dual diaphragm, single orifice

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Car Line CHEVROLET
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Engine Displacement

V8-350, 400 & 454

Vehicle Emission Control (Continued)

Crankcase Emission Control	Type (ventilates to atmos., induction system, other)		Standard	Induction System
			Optional	--
	Control Unit	Make and model		AC Spark Plug 6487778
		Location		Left front rocker cover
		Energy source (manifold vacuum, carburetor, other)		Manifold vacuum
		Control method (variable orifice, fixed orifice, other)		Variable orifice
	Complete System	Discharges (to intake manifold, other)		Intake manifold
		Air inlet (breather cap, other)		Carburetor air cleaner
		Flame arrestor (screen, other)		Screen
Evaporative Emission Control	Fuel Tank	Thermal expansion volume (cu. ft.)		Approximately 10% of refill capacity
		Relief pressure (psi) and location		1.1 PSI
		Vacuum relief (psi) and location		.7 PSI
		Vapor-liquid separator type		Integral with fuel tank
		Vapor vented to (crankcase, canister, other)		Canister

	Carburetor	Vapor vented to (crankcase, canister, other)		Internally vented
				---
	Vapor Storage	Storage provision (crankcase, canister, other)		Canister
				---
		Volume (cu. ft.) or capacity (grams)		Approximately 50 grams storage capacity
		Control valve type		Controlled by orifices and carburetor throttle body and throttle blade position.

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Engine Displacement			
V8-350 C. I. L65 | LMI		V8-400 C. I. LT4	V8-454 C. I. LS4

Electrical — Supply System

Battery	Make and Model		Delco Remy 1980240	1980204
	Voltage Rtg. & Total Plates		12 volts (3200 watts) 66 plates	12 (4000w) 78 plts.
	SAE Designation No. and/or capacity		Cold cranking rating 0°-350 amps;-20° -270 amps. 80 minutes reserve capacity	0°-445 amps;-20°-375 amps 125 min. res. cap.
	Location		Right side of engine compartment	
	Terminal grounded		Negative	
Generator or Alternator	Make		Delco Remy	
	Model		1102394	
	Type and rating		Diode rectified 37 amps.	
	Output at engine idle (neutral)		12-20 amps.	
	Ratio—Gen. to Cr/s rev.		2.73:1	3.12:1
Regulator	Make		Delco Remy	
	Model		---	
	Type		Micro circuit unit; integral with alternator	
	Cutout relay	Closing voltage @ generator rpm	None	
		Reverse current to open	None	
	Regulated	Voltage	13.8-14.8 @85° F	
		Current	---	
	Voltage test conditions	Temperature	Operating	
		Load	3-8 amperes	
		Other	None	

Electrical — Starting System

Starting Motor	Make		Delco Remy	
	Model		1108776	
	Rotation (drive end view)		Clockwise	
Motor Drive	Engagement type		Positive shift solenoid	
	Pinion engages from (front, rear)		Rear	
	Number of teeth	Pinion	9	
		Flywheel Manual	----	
		Flywheel Auto.	168	
	Flywheel tooth face width	Manual	----	
		Auto.	.4100-.4220	

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Engine Displacement

V8-350 C.I.		V8-400 C.I.	V8-454 C.I.
L65	LM1	LT4	LS4

Electrical — Ignition System — Distributor

Breaker gap (in.)		Not applicable			
Cam angle (deg.)		Not applicable			
Brkr. arm tension (oz.)		Not applicable			
Distributor	Manual	Not available			
	Automatic	1112880	1112888 (1112905)	1103203 (1112882)	1112886
Timing	Manual	Not available			
	Automatic	6° @ 600	8° @ 600 (6° @ 600)	8° @ 600	12° @ 550

Distributor Model	CENTRIFUGAL ADVANCE Crankshaft Degrees at Engine RPM			VACUUM ADVANCE Crankshaft Deg. at In. of Mercury	
	Start	Intermediate	Maximum	Start	Maximum
1112880	0° @1200	12 @2000	22 @4200	0° @4	18° @12
1112882	0° @1000	8 @1600	15 @2800	0° @8	15° @15
1112888	0° @1100	11 @1600	22 @4200	0° @5	18° @12
1112905	0° @1200	12 @2000	22 @4200	0° @6	15° @12
1103203	0° @1000	8 @1600	15 @2800	0° @6	15° @12
1112886	0° @1300	- 0 -	12 @4200	0° @4	18° @7

Note: Items bracketed are specific to California engines.

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Car Line CHEVROLET
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	Engine Displacement	
	V8-350 & 400 C. I.	V8-454 C. I.

Electrical—Ignition System

Type	Conventional - Std., Opt., N.A.		--
	Transistorized - Std., Opt., N. A.		--
	Other (specify)		High energy ignition system (H. E. I.)
Coil	Make		Delco Remy
	Model		Integral with distributor
	Current	Engine stopped	
		Engine idling	
Spark Plug	Make		AC Spark Plug
	Model		R45TS / R45TSX
	Thread (mm)		14
	Tightening torque (lb. ft.)		25 (original) / 15 (replacement)
	Gap		.045 / .060
Cable	Conductor type		Fiberglass core impregnated with electrical conducting mat'l.
	Insulation type		Rubber with silicone jacket
	Spark plug protector		Silicone rubber

Electrical—Suppression

Locations & type	Non-metallic high tension ignition cables

Electrical—Instruments and Equipment

Speed-ometer	Type	In-line with pointer
	Trip odometer (std. opt., N. A.)	NA
EGR maintenance indicator		NA
Charge Indicator	Type	Tell-Tale
	Warning divice	NA
Temperature Indicator	Type	Tell-Tale (gauge-optional)
	Warning device	NA
Oil pressure Indicator	Type	Tell-Tale
	Warning device	NA
Fuel Indicator	Type	Electric gauge
	Warning device	NA
Wind-shield Wiper	Type - standard	Electric, two-speed
	Type - optional	Intermittent control type optional
	Blade length	18.0"
	Swept area	886.8
Wind-shield Washer	Type - standard	Push-button
	Type - optional	None
	Fluid level indicator	NA
Horn	Type	Vibrator
	Number used	Dual-1BN00 Models, One (low note) on 1BL00 Models.
	Current draw (A) per hom	4.5-6.5 @12.5
Other		Restraint system warning light and buzzer. Parking brake and brake failure warning light. Fuel economy (vacuum) and coolant temperature gauges in optional package.

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Engine Displacement

Drive Units—Clutch (Manual Transmission)

...ear & type	
Type pressure plate springs	
...al spring load (lb.)	
...of clutch driven discs	
Material	
Manufacturer	
Part Number	
Rivets/Plate	
Rivet size	
Outside & inside dia.	
Total eff. area (sq. in.)	
Thickness	
Engagement cushioning method	
Type & method of lubrication	
Methods' springs, friction material	

NOT AVAILABLE

Drive Units—Transmissions

...ear 3-speed (std., opt., N.A.)	NOT AVAILABLE
... 4-speed (std., opt., N.A.)	NOT AVAILABLE
...matic (std., opt., N.A.)	STANDARD

...ed Units — Manual Trans.

...er of forward speeds	
In first	
In second	
In third	
In fourth	
In reverse	
...meshing, specify gears	
...lever location	
Capacity (pt.)	
...mer	
...ter	
Extreme cold	

NOT AVAILABLE

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Engine Displacement		
V8-350 L65	V8 - 350 (LM1) V8-400 (LT4)	V8 - 454 LS4

Drive Units—Automatic Transmission

Trade name		Turbo Hydra - matic		
Type (describe)		3-speed torque converter		
Selector location		Lever, steering column		
Gear Ratios	P	Park		Park
	R	1.94		2.08
	N	Neutral		Neutral
	D	2.52 - 1.52 - 1.00		2.48 - 1.48 - 1.00
	L2	2.52 - 1.52		2.48 - 1.48
	L1	2.52		2.48
Max. upshift speed - drive range		77	87	83
Max. kickdown speed - drive range		81	91	79
Torque Converter	Number of elements	3		
	Max. ratio at stall	2.00		2.10
	Type of cooling (air, liquid)	Water		
	Nominal diameter	11.75		12.20
Lubricant	Capacity - refill (pt.)	8		9
	Type recommended ●	Dexron II		
Special transmission features				

Drive Units—Axle

Type (front, rear)		Rear	
Description		Semi-floating axle shafts; overhung hypoid drive pinion and ring gear	
Limited Slip differential, type		Multiple disc	
Drive Pinion Offset		1.75	
No. of differential pinions		Two	
Pinion adjustment (shim, other)		None	
Pinion bearing adj. (shim, other)		Shim	
Wheel bearing type		Taper roller	
Lubricant ●	Capacity (pt.)	4.25 (8-1/2 ring gear); 4.9 (8-7/8 ring gear)	
	Type recommended	Meeting military specs MIL-L-2105B	
	SAE viscosity number — Summer	SAE 80 - 90	
	SAE viscosity number — Winter	SAE 80 - 90	
	SAE viscosity number — Extreme cold	SAE 80 - 90	

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

Axle ratio		2.56	2.73	3.08	2.73	3.08
No. of teeth	Pinion	16	15	13	15	13
	Ring gear	41	41	40	41	40
Ring Gear O. D.		8.50			8.875	

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Car Line CHEVROLET
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			Engine Displacement	
			Sedans & Coupes	Station Wagons

Drive Units—Propeller Shaft

Number used				
Type (straight tube, tube-in-tube, internal-external damper, etc.)			Straight tube	Swaged tube; internal damper
Outer diam. x length* x wall thick-ness	Manual 3-speed trans.		Not available	
	Manual 4-speed trans.		Not available	
	Automatic transmission		2.75x56.49x0.065	3.25x59.74x0.065
Inter-mediate bearing	Type (plain, anti-friction)		None	
	Lubrication (fitting, prepack)		---	
Slip Yoke	Type		Yoke	
	Number of teeth		27 & 32	
	Spline O. D.		1.176	
Universal joints	Make and Mfg. No		Saginaw Steering Gear S44	
	Number used		Two (2)	
	Type (ball and trunnion, cross)		Constant Velocity-rr.;cross-frt.	Cross
	Rear attach. (u-bolt, clamp, etc.)		Flange	
	Bearing	Type (plain, anti-friction)	Anti-friction	
		Lubric. (fitting, prepack)	Pre-pack	
Drive taken through (torque tube or arms, springs)			Control arms	Rear leaf springs
Torque taken through (torque tube or arms, springs)			Control arms	Rear leaf springs

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

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	Body Type And/Or Engine Displacement, Etc.	
	All Models except Station Wagons	Station Wagons

Drive Units — Tires And Wheels (Standard)

TIRES	Size, load range, ply		HR78 x 15B	LR78 x 15C
	Type (bias, radial, etc.)		Steel belted radial	
	Inflation pressure (cold) for *recommended* max. vehicle load	Front (a)	28	28
		Rear (a)	30	30
	Rev/mile @ 45 mph		745	719
WHEELS	Type & material		Short spoke disc, steel	
	Rim (size & flange type)		15 x 6	
	Wheel offset		0.34	
	Attachment	Type (bolt or stud)	Stud	
		Circle diameter	5.00	
		Number & size	5; 1/2 - 20 UNF - 2B hex nuts	
	Spare wheel (same or other)		Same	

Drive Units — Tires And Wheels (Optional) — IMPALA "S" OPTION

Size, load range, ply	G78 X 15B	L78X15C	
Type (bias, radial, etc.)	Bias	Bias	
Wheel type & material ●	Short spoke disc, steel		
Rim (size, flange type, and offset) ●	15 x 6 -- 0.34		
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			
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)			

Brakes — Parking

Type of control		Foot pedal apply "T" handle release
Location of control		Left of steering column under instrument panel
Operates on		Rear service brakes
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

(a) Full rated pressures shown, selective tire pressures are contingent on weight and loading of vehicle.

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Car Line CHEVROLET
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			Body Type And/Or Engine Displacement	
			Sedan & Coupes	Station Wagons
Brakes — Service				
Brake Type (std., opt., N.A.)	Drum	Front	--	
		Rear	Standard	
	Disc	Front	Standard	
		Rear	--	
Self adjusting (std., opt., N.A.)			Standard	
Special Valving	Type (proportion, delay, metering, other)		Metering & Proportioning	Proportioning
Power Brake (std., opt., N.A.)			Standard	
Booster Type (remote, integral, etc.)			Integral	
Effective area (sq. in.)*			111.2	120.1
Gross lining area (sq. in.)**			116.8	125.8
Swept area (sq. in.)***			374.74	386.7
Drum	Diameter (nominal)	Front		
		Rear	11.0	12.0
	Type and material		Cast iron finned	
Rotor	Outer working diameter		11.86	
	Inner working diameter		7.90	
	Thickness		1.28	
	Material & type (vented/solid)		Cast iron, vented	
Wheel cylinder bore	Front		--	
	Rear		.9375	1.00
Master Cylinder	Bore		1.125	
	Stroke		1.41	
Pedal arc ratio			3.50:1	
Line pressure at 100 lb. pedal load			773	
Shoe Clearance	Front		Self-adjusting	
	Rear		Self-adjusting	
Anti-skid device type (std., opt., N.A.)			Not available	
Brake lining	Bonded or riveted, rivets/seg.		Riveted	
	Rivet size		Front .210 x .379 Rear .143 x .250	
	Manufacturer		Delco Moraine	
	Part number		Frt. 18000222 Rr. 18000181	Frt. 18000222 Rr. 5471666
	Front Wheel — Material		Molded asbestos	
	Front Wheel — Size (length x width x thickness)	Prim. or outboard	5.40 x 1.92 x 0.465	
		Second. or inboard	5.40 x 1.92 x 0.465	
	Front Wheel — Segments per shoe		One	
	Front Wheel — Shoe thickness		Inboard .620;	Outboard .550
	Rear Wheel — Material		Molded asbestos	
	Rear Wheel — Size (length x width x thickness)	Prim. or outboard	8.87 x 2.0 x 0.25	9.81 x 2.0 x 0.25
		Second or inboard	11.12 x 2.0 x 0.29	12.77 x 2.0 x 0.32
	Rear Wheel — Segments per shoe		One	
	Rear Wheel — Shoe thickness		Primary-.305; Secondary .365	

* 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 π/2 for each brake.)

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Steering

Manual (std., opt., NA)				Not available
Power (std., opt., NA)				Standard
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt; Universally jointed steering shaft at base of steering wheel; 5-inch vertical travel range; 6 positions
		(std., opt., NA)		Optional
Wheel diameter		Manual		--
		Power		Oval - 15.25 x 14.75
Turning diameter (feet)	Outside front	Wall to wall (l. & r.)		45.2 - sedan and coupe; 46.2 - station wagon
		Curb to curb (l. & r.)		41.7 - sedan and coupe; 42.8 - station wagon
	Inside rear	Wall to wall (l. & r.)		---
		Curb to curb (l. & r.)		---
Manual	Gear	Type		---
		Make		---
		Ratios	Gear	---
			Overall	---
	No. wheel turns (stop to stop)			---
Power	Type (coaxial, linkage, etc.)			Integral gear and power piston with vane type pump
	Make			Saginaw Steering
	Gear	Type		Semi-reversible, recirculating ball nut
		Ratios	Gear	15.0:1 on center to 13.0:1
			Overall	16.2:1 on center to 14.6:1
	Pump driven by			Crankshaft pulley belt drive
	No. wheel turns (stop to stop)			3.06
Linkage	Type			Parallelogram
	Location (front or rear of wheels, other)			Front
	Drag link (trans. or longit.)			None
	Tie rods (one or two)			Two
Steering Axis	Inclination at camber (deg.)			9.11 @1°
	Bearings (type)	Upper		Ball stud with non-metallic bearing surface
		Lower		Ball stud with non-metallic bearing surface
		Thrust		None
Whl. Align. (range at curb wt & preferred)	Caster (deg.)			P 1 1/2° ± 1/2
	Camber (deg.)			Left P1° ± 1/2; Right P 1/2° ± 1/16
	Toe-in (outside track inches)			1/16 ± 1/16
Steering spindle & joint type				Nodular iron knuckle with upper and lower spherical joints.
Wheel Spindle	Diameter	Inner bearing		1.37455
		Outer bearing		0.84325
	Thread size			3/4 - 20 UNEF - 3A (modified)
	Bearing type			Taper roller

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Car Line CHEVROLET
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Body Type And/Or Engine Displacement	
Sedans, Coupes	Station Wagons

Suspension — General

(See Supplement page for details on Air Suspension)

Provision for car leveling		Front stabilizer bar
Provision for brake dip control		Front suspension geometry
Provision for acc. squat control		Rear suspension geometry
Special provisions for car jacking		Position jack in bumper slot on lower face of front and rear bumpers
Shock absorber front & rear	Type	Direct double acting hydraulic
	Make	Delco
	Piston dia.	1.00
Other special features		

Suspension — Front

Type and description		Independent - SLA type with coil springs	
Travel	Full Jounce	2.65	
	Full Rebound	4.31	
Spring	Type (coil, leaf, other)	Coil	
	Material	Steel Alloy	
	Size (coil design height & I.D., bar length x dia.)	11.00 x 4.05 146.09 x .698	11.00 x 4.05 137.65 x .719
	Spring rate (lb. per in.)	365	440
	Rate at wheel (lb. per in.)	100.7	123.0
Stabilizer	Type (link, linkless, frameless)	Link	
	Material & bar diameter	H.R. Steel .097; with LS4-1.00	H.R. Steel 1.125

Suspension — Rear

Type and description		4 link type; 2 lower and 2 upper control arms	Multiple leaf springs
Drive and torque taken through		Control arms	Leaf springs
Travel	Full Jounce	3.38	3.05
	Full Rebound	5.62	5.29
Spring	Type (coil, leaf, other)	Coil	Multiple leaf
	Material	Steel alloy	
	Size (length x width; coil design height & I.D., bar length & dia.)	10.0 x 5.50 132.9 x .573	57.0 x 2.50
	Spring rate (lb. per in.)	115	182
	Rate at wheel (lb. per in.)	107.9	192
	[illegible] type	Natural rubber	
	[illegible] of leaves	---	Six
	[illegible] (comp. or tens.)	---	Compression
	[illegible]nk, linkless, frameless)	Link	---
	Material & bar diameter	HR Steel 0.875 (b); LS4-0.94	---
[illegible] bar type		----	

(a) For base equipped models. Springs for all models computer selected by size and rate according to vehicle weight including optional equipment.
(b) Standard Caprice Classic optional Impala.

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Car Line CHEVROLET
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Body Type			
4-Door Sedan	2-Door Coupe	4-Door Spt. Sedan	Station Wagon

Frame

Type and description (Separate frame, unitized frame, partially - unitized frame) Separate frame, perimeter type incorporating 3 cross members.

Body — Miscellaneous Information

Type of finish (lacquer, enamel, other)		Acrylic Lacquer
Hood counterbalanced (yes, no)		Yes
Hood release control (internal, external)		Internal
Vehicle Indent No. location		Top left of instrument panel pad.
Theft protection - type		Lock mounted on steering column; Locks steering wheel, transmission shift lever and ignition.
Vent window control method (crank, friction pivot, power)	Front	None
	Rear	None
Seat cushion type	Front	Formed foam pad
	Rear	Formed foam pad
	3rd seat	Formed foam pad
Seat back type	Front	Formed foam pad
	Rear	Formed foam pad
	3rd seat	Formed foam pad
Windshield glass type		Single curve - laminated plate
Side glass type		Curved - tempered plate
Backlight glass type		Compound curve - tempered plate, one piece

Windshield glass exposed surface area	1542.7	1511.4	1511.4	1542.7
Side glass exposed surface area	1386.1	1750.8	1847.5	3265.7
Backlight glass exposed surface area	1359.0	1025.2	1276.5	882.1
Total glass exposed surface area	4287.8	4287.4	4635.4	5690.5

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Car Line CHEVROLET
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Body Type	
Sedans, Coupes	Station Wagons 2 & 3 seat

Convenience Equipment

Power windows	Side windows	Optional	
	Vent windows	NA	
	Backlight or tailgate	NA	Standard
Power seats (specify type as well as availability)		Optional - 6 way 50/50 power bench seat (left only), all models. - 6 way power bench all models.	
Reclining front seat back (R-L or both)		Included in front seat 50/50 bench option (R)	
Radios (specify type as well as availability)		Optional-AM-Push-button, AM-FM push-button, AM-FM Stereo AM stereo w/ tape, AM-FM Stereo W/ Tape.	
Rear seat speaker		(1) Optional with AM &AM-FM, (2) included in stereo unit.	
Power antenna		Dealer Installed Accessory	
Clock		Standard 1BN models; optional 1BL models.	
Air conditioner (specify type and availability)		Optional-"Four Season," manual controls Optional-"Comfortron," automatic temperature control	
Speed warning device		NA	
Speed control device		Optional	
Ignition lock lamp		NA	
Dome lamp		Standard	
Glove compartment lamp		Standard	
Luggage compartment lamp		Standard	Opt. - Rear Compt.
Underhood lamp		Optional	
Courtesy lamp		Standard 1BN, optional 1BL models	
Map lamp		NA	
Cornering light lamp		NA	
Rear window defroster electrically heated		NA	
Rear window defogger		Optional	
Dome Reading Lamp		Optional	
Windshield antenna		Included with factory installed radio also available without radio.	
Trunk lid release - electric		Optional	— —

Lamp Height And Spacing*

				1BL Models 2-seat	1BL Models 3-seat	1BN Models 2-seat	1BN Models 3-seat
Height above ground to center of bulb or marker	Headlamp (H125)	Highest**	1BL Models 27.5, 1BN Models 27.0	27.6	27.9	27.0	27.4
		Lowest	1BL Models 27.4, 1BN Models 26.9	27.5	27.8	27.0	27.3
	Tail (H126)	Highest	1BL Modles 24.9, 1BN Models 25.2	28.2	26.9	28.2	26.9
		Lowest	1BL Models 24.9, 1BN Models 25.2	28.2	26.9	28.2	26.9
	Sidemarker	Front	All Models 16.5	16.6	16.9	16.6	16.9
		Rear	All Models 15.5	27.4	26.1	27.4	26.1
Lateral distance between inside edges of pair		Inside	1BL Models 24.1, 1BN Models 25.5	24.1		25.5	
		Outside**	1BL Models 30.8, 1BN Models 32.9	30.8		32.9	
Lateral distance between outside edges of pair		Inside	1BL Models 13.1, 1BN Models 14.0	--		--	
		Outside	1BL Models 30.9, 1BN Models 32.7	31.7		31.7	
Longitudinal distance between pair	Directional	Front	1BL Models 36.3, 1BN Models 30.7	36.3		30.7	
		Rear	1BL Models 30.9, 1BN Models 32.7	31.7		31.7	

*Measured with passenger load and trunk/cargo load specified in Car and Body Dimension section.

**If single headlamps are used enter here

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET
Model Year 1976 Issued 9/75 Revised (●) _____

Model	Vehicle Weights							
	CURB WEIGHT* (Pounds)			% PASS. WEIGHT DISTRIBUTION				SHIPPING WEIGHT ** (Pounds)
				Pass. In Front		Pass. In Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
IMPALA								
4-Door Sedan 1BL69	2304	2057	4361	47.3	52.7	18.0	82.0	4222
4-Door Sport Sedan 1BL39	2314	2070	4384	47.3	52.7	18.0	82.0	4245
2-Door Coupe 1BL47	2304	2010	4314	47.3	52.7	20.0	80.0	4175
CAPRICE CLASSIC								
4-Door Sedan 1BN69	2346	2078	4424	47.3	52.7	18.0	82.0	4285
4-Door Sport Sedan 1BN39	2357	2096	4453	47.3	52.7	18.0	82.0	4314
2-Door Coupe 1BN47	2346	2037	4383	47.3	52.7	20.0	80.0	4244
STATION WAGONS								
IMPALA								
4-Door, 2-seat 1BL35	2368	2665	5033	49.3	50.7	20.0	80.0	4912
4-Door, 3-seat 1BL45	2365	2728	5093	49.3	50.7	-8.0	108.0	4972
CAPRICE ESTATE								
4-Door, 2-seat 1BN35	2385	2684	5069	49.3	50.7	20.0	80.0	4948
4-Door, 3-seat 1BN45	2381	2747	5128	49.3	50.7	-8.0	108.0	5007

* Reference - SAE J1100, Passenger Car Dimension Definitions. Pg. 1, Base Curb Weight.

** Shipping weight definition -

MVMA Specification Form
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Optional Equipment Weights

Equipment Differential Weights	WEIGHT (Pounds) Front	Rear	Total	Remarks
Air Cond. Comfortron	+88	+ 4	+ 92	used with LM1, LT4, L65
	+95	+ 4	+99	used with LS4
Air Cond. 4-season	+83	+ 4	+87	used with LM1, LT4, L65
	+90	+ 4	+94	used with LS4
Electric door locks	+ 4	+ 3	+ 7	2-Door Models
	+ 8	+ 4	+12	4-Door Models
Power frt. bench seat	+11	+ 9	+20	
Power frt. 50/50 bench st.	+32	+ 34	+66	Models 1BL35, 39, 45, 69, 1BN35, 45
	+ 25	+ 26	+51	Models 1BN47
	+ 28	+ 29	+57	Models 1BN39, 69
Frt. & Rr. floor mats	+ 5	+ 5	+10	
Vinyl roof cover	+ 2	+ 5	+ 7	All exc. Station Wagons
	+ 3	+ 6	+ 9	Station Wagons
Power windows	+ 7	+ 4	+11	2-Door Models
	+ 10	+ 9	+19	4-Door Models
Special front & rear suspension	+ 1	+ 16	+17	1BL and 1BN 39, 47, 69
Wire Wheel Trim Covers	+ 10	+ 10	+20	1BN00
	+ 11	+ 11	+22	1BL00
Radio am push button	+ 4	+ 2	+ 6	
Radio am-fm push button	+ 6	+ 2	+ 8	
Radio am-fm stereo	+ 12	+ 3	+ 15	
Radio am push button/tape	+ 15	+ 5	+ 20	
Radio am-fm p. b. & tape	+ 16	+ 5	+ 21	
Bumper impact strips	+ 4	+ 3	+ 7	All exc. Station Wagons
	+ 4	+ 2	+ 6	Station Wagons
Bumper guards Frt & rear	+ 8	+ 4	+ 12	All exc. Station Wagons
	+ 8	+ 2	+ 10	Station Wagons
Roof Luggage Carrier	+ 0	+ 22	+ 22	Station Wagons
350 CU IN V8 engine LM1	+ 4	+ 8	+ 12	Sedans & Coupes
400 cu. in V8 engine LT4	+ 17	+ 13	+ 30	Sedans & Coupes
454 Cu. In. V8 engine LS4	+205	+ 78	+283	Sedans & Coupes
	+176	+ 39	+215	Station Wagons

MVMA Specifications Form
Passenger Car

Car Line CHEVROLET
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Body Type

Vehicle Fiducial Marks

Fiducial Mark Number *

Define Coordinate Location

Front

X - 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.

Y - Fiducial Mark to Vertical Body Zero Line - Front,
Measured horizontally from the body zero line to the front fiducial mark located on top of the front seat adjuster mounting bolt.

Z - Fiducial Mark to Horzontal Body Zero Line - Front,
Measured vertically from body zero line to the front fiducial mark located on top of the front seat adjuster mounting bolt.

Rear

X - Fiducial Mark to Centerline of Car - Rear,
Width measurement made from centerline of car to fiducial mark located on the rear underbody crossbar.

Y - Fiducial Mark to Vertical Body Zero Line - Rear,
Measured horizontally from body zero line to the rear fiducial mark located on the rear underbody crossbar.

Z - Fiducial Mark to Horizontal Body Zero Line - Rear,
Measured vertically from body zero line to the rear fiducial mark located on the rear underbody crossbar.

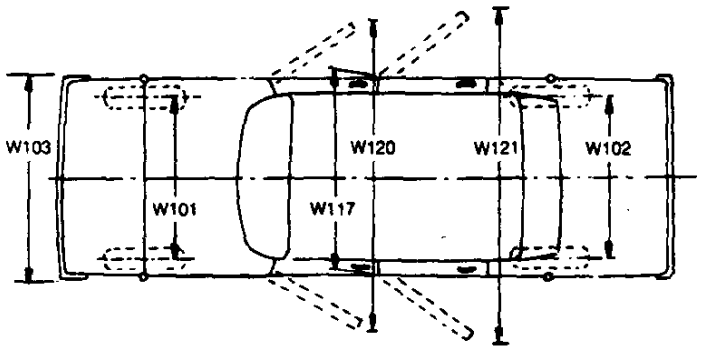
Fiducial Mark Number	Coordinate Location of Fiducial Mark X	Y	Z	Design	Fiducial Mark to Ground at Curb
Front	20.70	30.27	5.07	Coupes & Sedans	11.04
				Station Wagons	11.64
Rear	X	Y	Z		
Sedan & Coupe	22.25	142.93	9.32	Coupes & Sedans	14.97
Station Wagons	19.92	136.35	8.90	Station Wagons	15.87

* Reference — SAE Recommended Practice. J182

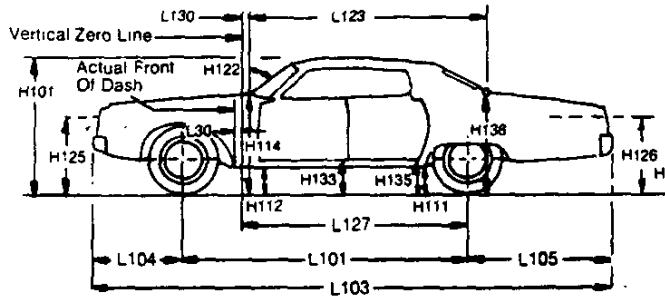
MVMA Specifications Form
Passenger Car

Exterior Car And Body Dimensions — Key Sheet

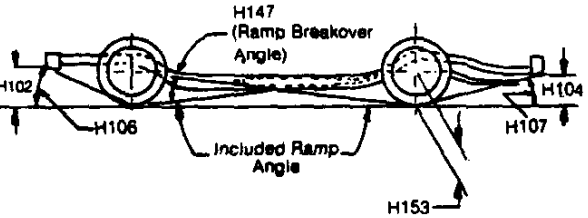
Width



Length & Height

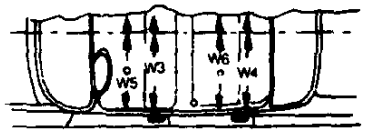


Ground Clearance

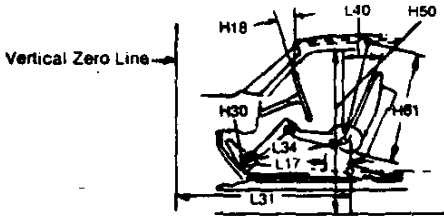


Interior Car And Body Dimensions — Key Sheet

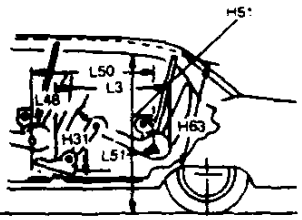
Width



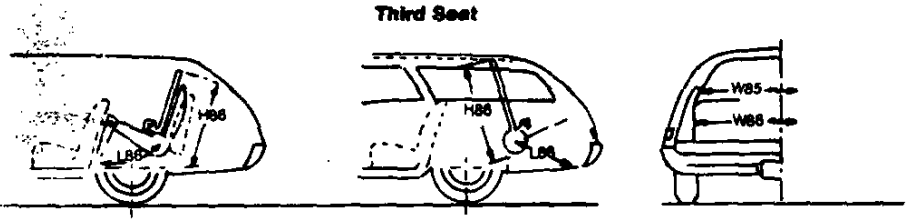
Front Compt.



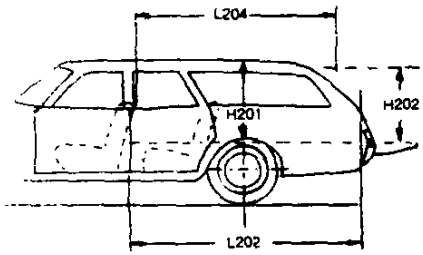
Rear Compt.

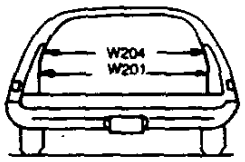


Third Seat

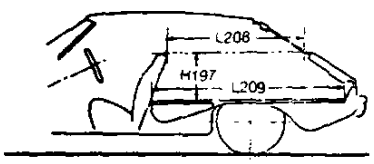


Cargo Space





Station Wagon



Hatchback

MVMA Specifications Form
Passenger Car

Exterior Car And Body Dimensions — Key Sheet
Dimension Definitions

Width Dimensions

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

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

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

W117 MAXIMUM BODY WIDTH AT NO. 2 PILLAR. Measured across body at No. 2 pillar, excluding hardware and applied moldings.

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

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

Length Dimensions

L30 VERTICAL ZERO LINE TO ACTUAL FRONT OF DASH. If actual Front of Dash is to the rear of Body Zero Line, it is identified by a minus (—) sign.

L101 WHEELBASE.

L103 OVERALL LENGTH. *Include bumper guards if standard* equipment.

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

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

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

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

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

Height Dimensions

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

H114 COWL POINT TO GROUND. Measured at vehicle centerline.

H138 DECK POINT TO GROUND. Measured at vehicle centerline.

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

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

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

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

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

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

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

Ground Clearance Dimensions

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

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

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

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

H147 RAMP BREAKOVER ANGLE. The supplement of included ramp angle (180° minus included ramp angle) over which car can pass without interference; measured with car sitting on a level surface, using lines tangent to arcs of front and rear static loaded radii and intersecting at point on underside of car which defines the smallest angle.

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

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

MVMA Specifications Form
Passenger Car

Interior Car And Body Dimensions — Key Sheet Dimension Definitions

Front Compartment Dimensions

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

H61 EFFECTIVE HEAD ROOM — FRONT. The dimension from H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

H75 EFFECTIVE T POINT HEADROOM — FRONT. The arc dimension from the T Point to the headlining plus 30 inches.

L34 MAXIMUM EFFECTIVE LEG ROOM — ACCELERATOR. Measured along a diagonal line from the Manikin ankle pivot center to the H Point plus a constant of 10.0 inches. For treadle type accelerator pedals, the leg room is measured with the Manikin's right foot on the acceleator pedal and the Manikin Heel Point at Accelerator Heel Point. All other types of accelerator pedals will be measured with the Manikin foot angle set at 87° and the shoe touching the pedal.

H30 H POINT TO HEEL POINT — FRONT. The vertical dimension from the H Point to the Accelerator Heel Point.

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

W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within the belt line to 10 inches above the H-point—front.

W5 HIP ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the H-point—front within 1.0 inches below and 3.0 inches above the H-point height and 3.0 inches fore and aft of the H-point.

H50 UPPER BODY OPENING TO GROUND — FRONT. The vertical dimension from a point on the trimmed body opening to the ground, measured at the H Point station.

H18 STEERING WHEEL ANGLE — VERTICAL. 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 H-Point-Front and the torso line.

Rear Compartment Dimensions

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

H63 EFFECTIVE HEAD ROOM — REAR. The dimension from the H Point to the headlining, plus a constant of 4.0 inches, measured along a line 8° to rear of vertical.

[illegible]OINT HEADROOM — REAR. Measured in the manner as H75.

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

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

L48 KNEE CLEARANCE. The minimum dimension measured from the knee pivot center to the back of front seatback minus 2.0 inches.

L3 REAR COMPARTMENT ROOM. The horizontal dimension from the back of front seat to front of rear seat back at height tangent to the top of rear seat cushion.

W4 SHOULDER ROOM—SECOND. The minimum dimension measured laterally between trimmed surfaces on the "X" plane through the H-point—second within 10.0-16.0 inches above the H-point—second.

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

H51 UPPER BODY OPENING TO GROUND — REAR. The vertical dimension from a point on the trimmed body opening to the ground, measured 13.0 inches forward of the H Point.

Luggage Compartment Dimensions

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

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

Station Wagon — Third Seat Dimensions

W85 SHOULDER ROOM—THIRD. Measured in the same manner as W4.

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

L86 EFFECTIVE LEG ROOM — THIRD SEAT. Measured along a diagonal line from ankle pivot center to H Point plus a constant of 10.0 inches. With rear-facing third seat, foot is positioned in foot well or to nearest interference with rear end or rear closure.

H86 EFFECTIVE HEAD ROOM — THIRD SEAT. The dimension from H Point to the headlining, plus a constant of 4.0 inches. Measured along a line 8° to rear of vertical.

H89 EFFECTIVE T POINT HEADROOM — THIRD SEAT. Measured in the same manner as H75.

MVMA Specifications Form
Passenger Car

Interior Car And Body Dimensions — Key Sheet
Dimension Definitions

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.

V2 CARGO VOLUME INDEX BEHIND FRONT SEAT. The total volume in cubic feet above the normal load floor and behind the front seat with the liftgate and tailgate closed.

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

Hatch Back — Cargo Space Dimensions

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

H197 FRONT SEAT BACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seat back to the undepressed floor covering.

L208 CARGO LENGTH AT FRONT SEAT BACK HEIGHT The horizontal dimension measured from the top rear of front seat back to the inside limiting interference of the hatch back door on the car centerline.

L209 CARGO LENGTH AT FLOOR — FRONT SEAT. The horizontal dimension measured at floor level from the rear of the front seat back to the normal limiting interference of the hatch back door on the car centerline.

V3 HATCH BACK — CARGO INDEX VOLUME. Hatch back cargo index volume is to be determined by the following formula, and expressed in terms of cubic feet.

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728}$$

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Passenger Car

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