MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1987

Manufacturer	Chevrolet Motor Division General Motors Corporation	Car Line
		Cavalier
Mailing Address	Chevrolet-Pontiac-Canada Group Engineering Center	
	General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued June, 1986 Revised September, 1986

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.

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MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

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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.
- Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

METRIC (U.S. Customary)

Car Line <u>CAVAL IFR</u>			•
Model Year1987	Issued	6-86	Revised (•).

Car Models

		Car Mode	IS		
Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Desi Seating Po (Front/R	sitions	Max. Trunk Cargo Load-Kilograms (Pounds)
FRONT WHEEL DRIVE		MODEL NUMBER	FRONT	/REAR	
CAVALIER 2-Door Notchback Sedan		1JC27	2	3	60.0 (132.3)
4-Door Notchback Sedan	·	1JC69	2	3	61.8 (136.2)
4-Door Station Wagon		1JC35	2	3	92.7 (204.4)
CAVALIER 'CS' 2-Door Hatchback Coupe		1J077	2	3	72.0 (158.7)
4-Door Notchback Sedan		lJD69	2	3	61.8 (136.2)
4-Door Station Wagon		1JD35	2 ·	3	92.7 (204.4)
CAVALIER 'RS' 2-Door Notchback Coupe		1JE27	2	3	60.0 (132.3)
2-Door Hatchback Coupe		1JE77	2	3	72.0 (158.7)
1-Door Notchback Sedan		1JE69	2	3	61.8 (136.2)
1-Door Station Wagon		1JE35	2	3	92.7 (204.4)
?-Door Convertible Coupe		1JE67	2	2	48.2 (106.3)
CAVALIER Z24 2-Door Hotchback Coupe		1JF27	2	3	60.0 (132.3)
?-Door latchback Coupe	,	1JF77	2	3	72.0 (158.7)

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

Car Line <u>CAVALIER</u>	·	
Model Year 1987 Issued	6-86 Revised (•) _	9_86

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Power Teams (Indicate whether standard or optional)

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

		E	NGINE			E		Dr	ive Ra		:1)
SERIES AVAILABILITY	Displ.	Carb.		SAE Ne	t at RPM] h a	TRANSMISSION/ TRANSAXLE		Axle. Overal		verall
	Liters (in ³)	(Barrels, FI, etc.)	Compr. Ratio	Power kW (bhp)	Torque N • m (lb. ft.)	s t S·D	ITANGAALE	ŀ	Veh. Drive	•	Veh. Drive
	L-4 2.OLiter 121 CID) LL8		9.0:1	(90 @ 5600)	(108 @ 3200)	S	Man 4-Speed 3.53 Low Base (M19) 27,69 Models	3.65	2.96	* *	
							Man 5-Speed 3.73 Low Base (MR3) 35,67,77 Mode	3.83 s	2.83		
							Auto '125c' Avail (MD9)	3.18	3.18\$	3.43\$	3.43
Convertible	V6 2.8Lite 173 CID) LB6	MFI r %	8.9:1	(125 @ 4500)	(160 @ 3600)		Man 5-Speed 3.50 Low Opt. (MG2)	3.61	2.60		
and Z24 Models only	-						Auto '125c' Avail. (MD9)	3.18	3.18		
+ - Electronic % - (2.8 Multi * - Optional A \$ - Axle Ratio	Port FI de Rati			ferent	ial D	ri ve	Ratio				
										:	

 Car Line
 _____CAVALIFR

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Engine Description/Carb. Engine Code 2.0 Liter L-4 (121 CID)
Electronic Fuel Injection
RPO LL8

2.8 Liter V6 (173 CID)
(2.8 Multi-Port FI)
RPO LB6

ENGINE-GENERAL

Type & description (flat, location, front, n transverse, longitud	nid, rear, inal, soho doho	In line	
ohv. hemi, wedge, p	re-camber, etc.)	Front	·
Manufacturer	· · · · · · · · · · · · · · · · · · ·	Transverse, front of engine	e faces right side of vehicle
No. of cylinders			To state of ventere
Bore		4	6
Stroke		89 (3.50)	89 (3.50)
Bore spacing (C / L to		80 (3.15)	76 (2.99)
	ial & mass kg (lbs.) (machined)	99 (3.90)	111.8 (4.40)
Cylinder block deck h	rai & mass kg (los.) (machined)	Cast Iron/32.050 (70.7)	Cast Iron/48.2 (106.3)
Cylinder block length		215.55 (8.49)	224 (8.819)
		443 (17.4)	435.5 (17.1)
Deck clearance (mini (above or below block	mum) ()		
Cylinder head materia	01.0	0.15 (.006) below	0.15 (.006) above
Cylinder head volume		Aluminum 9.740 (21.5)	Aluminum 5.300 (11.7)
Cylinder liner materia		43.3	28.0
		Not Available	
Head gasket thicknes (compressed)	s		
		1.1 (.043)	1.50 (.059)
Minimum combustion total volume (cm ³)	chamber		1.50 (.059)
		59.988 (3.66)@	50 9/91 /2 651510
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4	59.8481 (3.6515)@ 2-4-6
	. R. Валк		1-3-5
Firing order		1-3-4-2	1 0 0 4 5 5
Intake manifold materi		Aluminum Cast/3,870 (8.5)	1-2-3-4-5-6 /2.675 (5.9) Ctr
	erial & mass [kg (lbs.)]**	Stamped Steel/2.585 (5.7)	Aluminum Cast/3.810 (8.4) Lwr
Recommended fuel (leaded, unleaded, die	sel)	Unleaded	Stee1/2.200 (4.9) L.H. 2.615 (5.8) R.H.
Fuel antiknock index	(R + M)	onreaded	
	2	87	
Fotal dressed engine п	ass (wt) dry***	7.46	
		7,14,00	199.7 (440.3) Auto
Engine – Piston	S	162.4 (358.0) Man	215.0 (474.0) Man
Material & mass, g weight, oz.) - piston on			
	ly 	Aluminum Alloy 350 (12.3)	Aluminum All Ama day
ngine – Camsh	aft	7110 330 (12.3)	Aluminum Alloy, .474 (16.7)
ocation		In cylinder block	
laterial & mass kg (wei	oht the)	In cylinder block, right sid	e In block above crankshaft
	gin, iUS.)	Cast Iron 3.065 (6.8)	Cast Iron/3.098 (6.83)
			IVUSE ITUNIA, UMM IN XKI
rive type	Chain/belt	Chain	Chain

^{*}Rear of engine – drive takeoff. View from drive takeoff end to determine left & right side of engine.

**Finished state.

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

**Engine a complete ready-to-run unit.

^{@ -} Piston at TDC, spark plug and valves in place, and cylinder head torqued to specifications.

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	1		
Engine Description/Carb. Engine Code		2.0 Liter L-4 (121 CID) Electronic Fuel Injection RPO LL8	2.8 Liter V6 (173 CID) (2.8 Multi-Port FI) RPO LB6
Engine –	Valve System		
Hydraulic lifte	ers (std., opt., NA)	Standard	
	Number intake / exhaust	4/4	6/6
Valves _.	Head O.D. intake / exhaust	43.00 (1.69)/37.00 (1.46)	43.64 (1.72/36.20 (1.43)
Engine	Connecting Rods	:	
Material & ma	ass [kg., (weight, lbs.)]*	Cast Steel, .373 (.820)	Cast Steel399 (0.880)
Engine –	Crankshaft		,,
Material & ma	ass [kg., (weight, lbs.)]*	Nodular Cast Iron/13.360(29.5)	Nodular Cast Iron/14.170(31.2
End thrust ta	ken by bearing (no.)	5	3
Number of m	ain bearings	5	4
Seal (materia		Silicon, one	Viton/one piece
piece design,	, etc.) Rear	Silicon, one	Viton/one_piece
Engine -	Lubrication System		
Normal oil pr	essure (kPa (psi) at engine rpm]	435-530 (63-77) @ 1200	345-450 (50-65) @ 1200
	te (floating, stationary)	Stationary	
	em (full flow, part, other)	Full Flow	
Capacity of c	/case, less filter-refill-L (qt.)	3.8 (4.0)	13.8 (4.0)
Engine –	Diesel Information		
Diesel engine	manufacturer		
Glow plug, cu	urrent drain at 0°F	Not	
Injector	Туре	Applicable	
nozzie	Opening pressure [kPa (psi)]		
Pre-chamber	design		
Fuel in-	Manufacturer		
jection pump	Туре .		
Fuel injection	pump drive (belt, chain, gear)		
	ry vacuum source (type)		
•	itor, description		
(std., opt.) Turbo manufa	acturer		<u> </u>
	e (oil to engine coolant;		
Oil filter			
Engine –	Intake System		
	r - manufacturer	Not	* * · · · · · · · · · · · · · · · · · ·
	r - manufacturer	Applicable	· · · · · · · · · · · · · · · · · · ·
Charge coole	······································		
	le	<u> </u>	

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Car Line	CAVALIER		•	•	
Model Year	1987 Issued	6-86	Revised (•)	9-86

Engine Description/Carb. Engine Code 2.0 Liter L4 (121 CID)
Electronic Fuel Injection
RPO LL8

Engine	- Cooling System					
Coolantre	covery system (std., opt., n.a.)	Standard				
	location (rad., bottle)	Bottle, coolant recovery				
	ap relief valve pressure [kPa (psi)]	103.4 (15)				
Circulation	. Type (choke, bypass)	Choke				
thermostat	Starts to open at ℃(°F)	91 (195°)				
	Type (centrifugal, other)					
	GPM 1000 pump rpm	Centrifugal, with aluminum die cast body 7.3 @ 1000 pump RPM				
	Number of pumps	One				
Water	Drive (V-belt, other)	V-belt				
pump	Bearing type	Sealed, ball-roller				
	Impeller material	Cast Iron				
	Housing material	Aluminum				
By-pass rec	sirculation [type (inter,. ext.)]	Internal				
Cooling	With heater-L(qt.)	0.10.70.6				
system capacity	With air condL(gt.)	0.33 /0.33 Mail				
	Opt. equipment [specify-L(qt.)]	0.03 (0.00 (0.0) 11011				
Water jacke	ts full length of cyl. (yes, no)	8.37 (8.8) Auto, 8.37 (8.8) Man Yes				
	ound cylinder (yes, no)	Yes				
Water jacke	ts open at head face (yes, no)	No				
-						
}	Type (cross-flow, etc.)	Std. Auto A/C Auto HD Auto AC&HD Man Std Man A/C Man HD Man AC&HD Cross-flow				
Radiator	Construction (fin & tube mechanical, braze, etc.)					
core	Material, mass [kg (wgt, lbs.)]	High Efficiency Radiator				
		Copper-brass, high efficiency radiator				
		7 5 307 5 307 6 000.0 7 500.0 600.0 600.0 600.0				
		5.0 35.0 35.0 307.3 387.5 387.5				
	Fins per inch	3.5* 3.5* 25.0 25.0 25.0 25.0				
Radiator end	tank material	3.5* 3.5* 3.5* 3.5* 3.5* 3.5* 3.5* 3.5*				
	Std., elec., opt.	Electric				
	Number of blades & type (flex, solid, material)					
	Diameter & projected width	Std 4, flex, plastic (opt 5, flex, plastic)				
	Ratio (fan to crankshaft rev.)	$\frac{3t0 291.0 \text{ (opt.} - 354.0)}{291.0 \text{ (opt.} - 354.0)}$				
an [Fan cutout type	Not Applicable ECM controlled				
	Drive type (direct, remote)	Direct				
	RPM at idle (elec.)					
	Motor rating (wattage) (elec.)	2200-2400 (constant) 96				
İ	Motor switch (type & location) (elec.)					
	Switch point (temp., pressure) (elec.)	Coolant switch, engine cylinder head				
	Fan shroud (material)	014:				

^{* -} Distance between top of fins.

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Engine Doscription/Carb. Engine Code 2.8 Liter V6 (173 CID) (2.8 Multi-Port FI) RPO LB6

Engine - Cooling System

Fuðine-	- Cooling System					
Coolant rec	overy system (std., opt., n.a.)	Standard				
Coolant fill le	ocation (rad., bottle)	Bottle, coolant recovery				
Radiator ca	p relief valve pressure [kPa (psi)]	103.4 (15)				
Circulation	Type (choke, bypass)	Bypass				
thermostat	Starts to open at °C (°F)	91 (195°)				
	⁹ Type (centrifugal, other)	Centrifugal, with aluminum die cast body				
	GPM 1000 pump rpm					
	Number of pumps	One				
Water	Drive (V-belt, other)	Serpentine				
oump	Bearing type	Sealed, ball-roller				
	Impelier material	Cast Iron				
_	Housing material	Aluminum				
By-pass reci	rculation (type (inter,. ext.))	Internal				
Cooling	With heater-L(qt.)	10.71 (11.3) Auto, 10.75 (11.4) Man				
ystem apacity	With air cond.~L(qt.)	10.67 (11.3) Auto, 10.71 (11.3) Man				
- apacity	Opt. equipment [specify-L(qt.)]	10.71 (11.3) Auto, 10.71 (11.3) Man				
Vater jacket	s full length of cyl. (yes, no)	Yes				
Vater all aro	und cylinder (yes, no)	Yes				
Vater jacket	s open at head face (yes, no)					
Std., A/C, HD	Auto Std. Auto A/C Man. Std. Man. A/C					
	Type (cross-flow, etc.)	Cross-flow				
ladiátor	Construction (fin & tube mechanical, braze, etc.)	High Efficiency Radiator				
Ore	Material, mass [kg (wgt, lbs.)]	Aluminum, high efficiency radiator				
	Width	599.5				
	Height	360.4				
	Thickness	34.0				
	Finsperinch	4.0* 3.5* 4.0* 4.0*				
adiator end	tank material	Plastic				
	Std., elec., opt.	Electric				
	Number of blades & type (flex, solid, material)	Std 7, flex, plastic (opt. same - 7, flex, plastic)				
	Diameter & projected width	Std. and opt. same - 352.5 (13.86)				
	Ratio (fan to crankshaft rev.)	Not Applicable				
ŧn	Fan cutout type	ECM controlled				
	Drive type (direct, remote)	Direct				
	RPM at idle (elec.)					
	Motor rating (wattage) (elec.)					
	Motor switch (type & location) (elec.)					
	Switch point (temp., pressure) (elec.)	**				
	Fan shroud (material)	Plastic				

 $[\]star$ - Distance between top of fins.

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

2.0 Liter L-4 (121 CID)
Electronic Fuel Injection
RPO LL8

			RPO LL8
Engine	– Fuel Systen	n (See suor	plemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)
			Page 151 Octains of Fiber injection, Supercharger, Furbocharger, etc. (flused)
Induction ty injection sy	rpe: carburetor, fuel stem. etc.		Fuel Injection CCC continue
Manufactur	 		Fuel Injection CCC controlled
Manuactur			None
Carbura	Choke (type)	Г	None
Carbure- tor	Idle spdrpm (spec. neutral	Manual	Not Applicable
	or drive and		Not Applicable
	propane if used)	Automatic	Not Applicable
Idla ArE		<u> </u>	Not Applicable
Idle A/F mix			Preset - no adjustment provided
	Point of injectio		Throttle body
Fuel injection	Constant, pulse	 -	Pulse
ii joction	Control (electro		Electronic
	System pressur	e [kPa (psi)]	68.95-82.74 (10-12)
Intake mani or water the	fold heat control (ex rmostatic or fixed)	thaust	Water
Air cleaner	Standard		Replaceable paper element single snorkel
type	Optional		None
Fuel	Type (elec. or m	nech.)	Electric
pump	Location (eng., tank)		Tank
	Pressure range	[kPa (psi)]	Not Applicable
Fuel Tan	k		
Capacity [re	fill L (gallons)]		51.5 (13.6)
Location (de	scribe)		Underbody - rear center
Attachment			Underbody strap
Material & M	ass [kg (weight lbs	J	Steel 8.732 (19.3)
Filler	Location & mate	rial	R.H. rear quarter
oipe	Connection to ta	nk	Solid solder
uel line (ma	aterial)		Steel
uel hose (m	naterial)		Rubber
Return line (material)			Steel
Vapor line (material)			Steel
	Opt., n.a.		Not Available
Extended ange	Capacity [L (galle	ons))	
ank	Location & mater	rial	1)
	Attachment		ll .
	Opt., n.a.		
	Capacity [L (gallons)]		
luxiliary ank	Location & material		1
	Attachment		T
	Selector switch o	r valve	
	Separate fill		

Car-Line CAVALIER			
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	Engine	Description/Carb.
۰	Engine	Code

2.8 Liter=V6((173:CID) (2.8: Multi-Port:FI) (:RPO:LB6

Induction typinjection sys	e: carburetor, fuel tem, etc.	· .	-Multi-Port Fuel Injection
Manufacture	er		None
	Choke (type)		:None
Carbure-	Idle spdrpm	Manual	Not Applicable
tor .	· (spec. neutral		Not Applicable
	or drive and propane if	Automatic	Not Applicable
	-used)	<u> </u>	Not Applicable
Idle A/F mix.	<u> </u>	<u> </u>	Preset - no adjustment provided
[Point of injection	n (no.)	Fuel Injectors at inlet ports
í Fuel	Constant, pulse	, flow	Rulse
injection	Control (electro	nic, mech.)	Electronic
	System pressur	e [kPa (psi)]	Not Available
Intake manifo	old heat control (ex	thaust	
or water then	mostatic or fixed)		Water
Air cleaner	Standard		Replaceable paper element single snorkel
уре	Optional		None
Fuel	Type (elec. or m	iech.)	Electric
oump	Location (eng., tank)		Tank
Pressure range (kPa (psi))		(kPa (psi))	-Not Applicable
Fuel Tani			
Capacity (refi			51.5 (13.6)
ocation (des	cribe)		Underbody - rear center
Attachment			Underbody strap
vaterial & Ma	ss (kg (weight lbs)		Steel 8.732 (19.3)
Filler Sipe	Location & mate		R.H. rear quarter
<u> </u>	Connection to ta	nk .	Solid solder
uel line (mat			Steel
uel hose (ma			Rubber
Return line (material)			Steel
Vapor line (material)			Steel
xtended ·	Opt., n.a.		Not Available
ange i	Capacity L (gallo		11
	Location & material		II .
	Attachment		н
	Opt., n.a.		
	Capacity [L (gallons)]		16
uxiliary		 	
	Location & mater	ial	II .
uxiliary ank	Location & mater Attachment	-,	п
	Location & mater	-,	

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Engine Description/Carb. **Engine Code**

2.0 Liter L-4 (121 CID) 2.8 Liter V6 (173 CID) Electronic Fuel Injection 2.8 Multi-Port FI RPO LL8 RPO LB6

	Type (air ii modificatio	njection, engine ons, other)	CCC control with fuel	injection	
		Pump or pulse	None None		
		Driven by		None	
	Air Injection	Air distribution (head, manifold, etc.)		None	
	· <u>· </u>	Point of entry		None	
xhaust	Exhaust Gas	Type (controlled flow, open orifice, other)	Controlled flow	None None	
Emission Control	Recircula-	Exhaust source	Exhaust manifold	Not available	
	tion	Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold	Not available	
		Туре		Not available	
		Number of	Single bed, oxidizing & reducing One		
	Catalytic Converter	Location(s)			
		14 (Mounted to center under	rbody	
		Volume [L (in³)]	2.78 (170)		
	 	Substrate type	Monolith		
	Type (ventilates to atmosphere, induction system, other)		Induction system		
rankcase mission	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum		
Control	Discharges (to intake manifold, other)		Intake manifold		
	Air inlet (breather cap, other)		Air cleaner		
vapora-	Vapor vente	d to Fuel tank	Canister		
e mission	(crankcase, canister, oth	er) Carburetor			
ontrol	Vapor storage provision		Canister		
ectronic	Closed loop	(yes/no)	Yes		
stem	Open loop (yes/no)		No		

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single (with dual tailpipes 2-doors only)
Muffler no. separate re	& type (reverse flow, straight thru, sonator) Material & Mass [kg (weight lbs)]	One, reverse flow
Resonator no. & type		None
Exhaust pipe	Branch o.d., wall thickness	- NOTE
	Main o.d., wall thickness	$50.8 \times 0.94 (2.0 \times .037)$ * $50.8 \times 0.94 (2.0 \times .037)$
	Material & Mass [kg (weight lbs)]	50.8 x 0.94 (2.0 x .037)* 50.8 x 0.94 (2.0 x .037)
nter- nediate	o.d. & walf thickness	50.8 x 1.09 (2.0 x .043)
pipe	Material & Mass [kg (weight lbs)]	Aluminum coated steel
Tail pipe	o.d. & wall thickness	
	Material & Mass [kg (weight lbs)]	Aluminum coated steel 50.8 x 1.09 (2.0 x .043)

^{* -} Laminated tubing - steel inner, stainless steel outer.

- Purchased as unit: 9.000 (19.8)

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Engine Description/Carb. Engine Code

2.0 Liter L4 (121 CID)
Electronic Fuel Injection
RPO LL8

Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of f	orward speed	s	4	5
	In first		3.53	3.73
	In second		1.95	2.15
	In third		1.24	1.33
Transmis-	In fourth		0.81	0.92
sion ratios	In fifth			0.74
	In overdrive			
	In reverse		3.42	3.50
Synchronous meshing (specify gears)			ard gears	
Shift lever lo	cation		Floor	40 40013
	Capacity (L (pt.))			2.8L (5.9 pts.), 5-Speed 2.55L (5.36 pts.)
	Type recommended		4-Speed 8	
Lubricant	SAE vis- cosity number	Summer	4-Speed &	E Spood CAE Ell 20 E
		Winter	4-Speed &	E Chand CAE CH 30 E
		Extreme cold	4-Speed 8	5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD 5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD

Clutch (Manual Transmission)

	Rora & Rock dry dian	Manual 5-Speed
no / percent)	Borg & Beck, dry disc	Isuzu, dry disc
	<u> </u>	
		Diaphragm
		5391 (1212)
		0ne
		Non-asbestos
		Isuzu
		94167716
	- 	16
	3.6 x 5.4 (.143 x .213)	Not Available
	203.2 x 152.4 (8.0 x 6.0)	215.0 x 154.0 (8.46 x 6.06)
	232 (35.94)	176.6 (23.37)
Thickness	6.86-7.37 (.270290)	7.8 (.307)
Engagement cushion method	Driven plate.	Driven plate,
Type & method	Ball thrust -	wave spoke springs
of lubrication		(a)
i Method: springs	Chil chrings and	/1.\
friction material	motal to motal friction	(b)
lo	re plate springs load [N (lb.)] driven discs Material Manufacturer Part number 'Rivets plate Rivet size Outside & inside dia. Total eff area [cm²(in.²)] Thickness Engagement cushion method Type & method of lubrication Method: springs, friction material	Diaphragm Joad [N (lb.)] 5516 (1240) driven discs One Material Non-asbestos Manufacturer Valeo Part number F202 'Rivets plate 36 Rivet size 3.6 x 5.4 (.143 x .213) Outside & inside dia 203.2 x 152.4 (8.0 x 6.0) Total eff area [cm²(in.²)] 232 (35.94) Thickness 6.86-7.37 (.270290) Engagement cushion method Driven plate, cushion springs Type & method of lubrication Prepacked and sealed Method: springs, friction material metal-to-metal friction

(a) Self centering, angular contact ball bearing pre-packed and sealed.(b) Coil springs with non-metal friction control.

CAVALIER Car Line _ 1987 Issued ___ 6-86 Revised (•)

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

2.8 Liter V6 (173 CID)	
(2.8 Multi-Port FI)	
RPO LB6	

Transmissions/Transaxle

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

Manual Transmission/Transaxle

Number of f	orward speed	S	5	
	In first		3.50	
Transmis	In second		2.05	
	in third		1.38	
	In fourth		0.94	
sion ratios	In fifth		0.72	
	In overdrive			
	In reverse		3.41	
Synchronou:	s meshing (sp	ecify gears)	All forward gears	
Shift lever lo	cation		Floor	
	Capacity [L (pt.)]		2.55L (5.36 pts.)	
Lubricant	Type recommended		SAE 5W-30 Engine Oil SF, SF/CC or SF/CD	
	SAE vis-	Summer	SAE 5W-30 Engine Oil SF, SF/CC or SF/CD	
	cosity	Winter	" SPALL OF SPALL	
	number	Extreme cold	D .	

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)		
		LUK, dry single disc
	s, no / percent)	No
Type press	sure plate springs	Diaphragm
Total sprin	ig load [N (lb.)]	5698 (1281)
No. of clut	ch driven discs	One
	Material	Non-asbestos
	Manufacturer	LUK
	Part number	14073764
	Rivets/plate	32
Clutch	Rivet size	5.41 x 3.63 (0.213 x 0.143)
facing	Outside & inside dia.	232 x 155 (9.12 x 6.12)
	Total eff. area [cm²(in.²)]	232 (35.96)
	Thickness	7.50-8.00 (.295315)
	Engagement cushion method	
	method	Driven plate wave spoke springs
Release bearing		
Torsional	Method: springs,	(a)
damping	friction material	(<u>b</u>)

(a) Self centering, angular contact ball bearing pre-packed and sealed.(b) Coil springs with non-metal friction control.

Car LineCAVALIER		<u> </u>		
Model Year 1987	Issued <u>6-86</u>	. Revised (•) _	9-86	

METRIC (U.S. Customary)

Engine Description/Carb. Engine Code

2.0 Liter L-4 (121 CID) Electronic Fuel Injection 2.8 Liter V6 (173 CID) 2.8 Multi-Port FI RPO LL8 RPO LB6

Automatic	Transmission/Transaxle

Trade name)	3-Speed Automatic				
Type and sp	pecial features (describe)	Torque converter with clutch 125C				
Selector	Location	Floor				
	Ltr./No. designation	P-R-N-D-2-1				
	1st	2.84				
Gear	2nd	1.60				
ratios	3rd	1.00*				
	4th	Not Applicable				
	Reverse .	2.07				
Max. upshift speed - drive range (km/h (mph))		1-2=63(39), 2-3=111(69)	1-2=66(41), 2-3=117(73)			
Max. kickdo	wn speed - drive range [km/h (mph)]	3-2=100(62), 2-1=58(36)	3-2=111(69), 2-1=58(36)			
Min. overdriv	ve speed [km:h (mph)]	Not Available				
	Number of elements	3				
Torque	Max. ratio at stall	2.7 2.35				
converter	Type of cooling (air, liquid)	Liquid				
	Nominal diameter	245 (9.65)				
Lubricant	Capacity [refill L (pt.)]	5.5L				
Type Recommended		Dexron II				
Oil cooler (st external, air,	td., opt., NA, internat, liquid)	Standard, integral part of	radiator			

Axle or Front Wheel Drive Unit

Converter clutch engagement

Type (front, rear)			Front	
Description			Front differential with helical gears and tapered roller bearings	
Limited slip differential (type)		pe)	Not Available	
Drive pinion	offset		Not Available	
Drive pinion (type)			Not Available	· · · · · · · · · · · · · · · · · · ·
No. of differential pinions			2	
Pinion / differential adjustment (shim, other)		ment (shim, other)	None	
Pinion / differential bearing adjustment (shim, other)		g adjustment (shim, of	hor) Shim	
Driving whee	el bearing (typ	e)	Sealed ball bearings	
	Capacity [L (pt.)]		Part of auto. trans. lub.	
	Type recor	mmended	Transmission lub.	
Lubricant	SAE vis-	Summer	Transmission lub.	
	cosity number	Winter	Transmission lub.	
	, maniber	Extreme cold	Transmission lub.	

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

Axie ratio (o	r overall top gear ratio)	3.18	3.61	3.43	3.65	3 83	
No. of	Pinion or drive gr.			33	23	1 3.05	
teeth	Ring gear or gear driven gr.			37	84		
Ring gear o.	d or driven gr. o.d.	195.2			·		
Transaxle	Transfer gear ratio						
	Final drive ratio						

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METRIC (U.S. Customary)

Engine Description/Carb. **Engine Code**

Electronic Fuel Injection 2.8	Liter V6 (173 CID) Multi-Port FI LB6
-------------------------------	--

Manufacture	er and number us	ed		Two		
Type (straight, solid bar,			Left	Straight solid bar		
tubular, etc.)			Right	Straight solid bar (a)		
	Manual transmission		Left	23.91 x 355.40 (Base), 27.05 x 359.70 (Heavy Duty) (b)*		
Outer			Right	23.91 x 698.40 (Base), 27.05 x 714.70 (Heavy Duty) (b)**		
diam. x length* x	Automatic tran	smission	Left	23.91 x 346.40 23.56 x 311 (b)		
vall hickness			Right	23.91 x 398.40 23.56 x 364.3 (b)		
UIICKI ICSS	Optional trans	mission	Lett	None		
			Right	None		
	Туре			None		
Slip yoke	Number of teeth		-	None		
	Spline o.d.			None .		
	Make and mid	Make and mfg. no. Inner Outer		Saginaw		
	Wake and mig			Saginaw		
	Number used			Two on each drive shaft		
	Type, size, plu	Type, size, plunge Inner		TRI-POT (c) TRI-POT (d)		
	, , , , , , , , , , , , , , , , , , ,	5	Outer	Rzeppa - fixed		
Universal	Attach (u-bolt	clamp, etc.)	Splined		
joints		Type (plair anti-friction		Anti-fraction		
	Bearing Lubrication (fitting, prepack)			Prepacked		
Drive taken through (torque tube, arms or springs)				Wishbone lower control arm; upper MacPherson strut		
Torque taken through (torque tube, arms or springs)				Engine mounting system		

^{*} Centerline to centerline of universal joints, or to centerline of attachment.

- (a) Tubular R.H. shaft with manual transmission (46.5 mm x 698.40 mm)
- (b) Shaft Capacity = Base 2300 N.m.

Heavy Duty - 2700 N.m.

(c) - Plunge = Manual, Left (Base) - 24.84 Manual, Right (Base) - 33.29

Manual, Left (Heavy Duty) - 28.78 Manual, Right (Heavy Duty) - 25.23

Auto, Left - 24.51 Auto, Right - 23.36

* 27.05 x 313 (Heavy Duty) (b) ** 27.05 x 665 (Heavy Duty) (b) (d) Plunge (max) Manual, left (H.D.) = 66.0 mmManual, right (H.D.) = 66.0 mmAutomatic, left (Base) = 61.0 mm Automatic, right (Base) = 61.0 mm

 Car Line
 CAVALIER

 Model Year
 1987
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 6-86
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Suspension - General Car Std.ropt.ma Not Available Type (air. hydetc.) " Manual/auto. controlled " Provision for brake dip control Front suspension geometry Provisions for carl jacking Body pickup at rocker panels Type Shock absorber (tront Make Delco Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear Rod diameter 25.0 (.98) Front, 12.4 (.49) Rear Suspension - Front Type MacPherson with coil springs, stamped laring and nodular iron steering knuckles Travel Full jounce 89.0 mm (3.5 in)							
Car Std.opt.ma Type (air, hydetc.) " Manual/auto.controlled " Provision for brake dip control Front suspension geometry Provisions for carjacking Body pickup at rocker panels Type MacPherson strut - front; double acting absorber (front & Piston diameter Bod (1.26) Front, 25.0 (.98) Rear Suspension - Front Type and description MacPherson with coil springs, stamped larins and nodular iron steering knuckles arms arms and nodular iron steering knuckles arms arms arms arms arms arms arms arm							
Type (air, hyd., etc.) Imanual/auto. controlled Imanual/auto. controlled Imanual/auto. controlled Imanual/auto. control Imanual/auto. controlled Imanual/a							
Type (air, hyd., etc.) Imanual/auto. controlled Imanual/auto. controlled Imanual/auto. controlled Imanual/auto. control Imanual/auto. controlled Imanual/a							
Provision for brake dip control Provision for accl. squat control Provisions for car jacking Body pickup at rocker panels Type Shock absorber (front & Delco Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear Rod diameter 25.0 (.98) Front, 12.4 (.49) Rear Suspension - Front Type and description MacPherson with coil springs, stamped laring and nodular iron steering knuckles Rod Full jounce 89.0 mm (3.5 in)							
Provision for acci. squat control Provisions for car jacking Body pickup at rocker panels Type Shock absorber (tront & Piston diameter Rod diameter Rod diameter Rod description Type and description Type and description Make Delco Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear 25.0 (.98) Front, 12.4 (.49) Rear MacPherson with coil springs, stamped 1 arms and nodular iron steering knuckles 89.0 mm (3.5 in)							
Provision for acci. squat control Provisions for car jacking Body pickup at rocker panels Type Shock absorber (tront & Piston diameter Rod diameter Rod diameter Rod description Type and description Type and description Make Delco Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear 25.0 (.98) Front, 12.4 (.49) Rear MacPherson with coil springs, stamped 1 arms and nodular iron steering knuckles 89.0 mm (3.5 in)							
Provisions for car jacking Body pickup at rocker panels Type Shock absorber (front & Delco Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear Roddiameter 25.0 (.98) Front, 12.4 (.49) Rear Suspension – Front Type and description MacPherson with coil springs, stamped 1 arms and nodular iron steering knuckles Travel Fulljounce 89.0 mm (3.5 in)							
Shock absorber (front & Make Delco Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear Rod diameter 25.0 (.98) Front, 12.4 (.49) Rear Suspension - Front Type and description MacPherson with coil springs, stamped larms and nodular iron steering knuckles Travel Fulljounce 89.0 mm (3.5 in)							
Make Delco							
Piston diameter 32.0 (1.26) Front, 25.0 (.98) Rear 25.0 (.98) Front, 12.4 (.49) Rear							
Suspension - Front Type and description MacPherson with coil springs, stamped larms and nodular iron steering knuckles Travel Fullipounce 89.0 mm (3.5 in)							
Suspension - Front Type and description MacPherson with coil springs, stamped larms and nodular iron steering knuckles Travel Fullipounce 89.0 mm (3.5 in)							
Type and description MacPherson with coil springs, stamped larms and nodular iron steering knuckles Travel Fullipounce 89.0 mm (3.5 in)							
arms and nodular iron steering knuckles Travel Fullipounce 89.0 mm (3.5 in)	owen central						
Travel Fullipounce 89.0 mm (3.5 in)							
	1 .						
Full rebound 84.0 mm (3.3 in)							
Type (coil, leaf, other) & material Coil, steel							
Insulators (type & material)							
Spring Size (coil design height & r.d., bar length x dia.) 406.6 (16.0) x 139.0 (5.47 x 2932 (115.	4) x 12.9 (.5)						
Springrate [N/mm (lb./in.)] 16.0 (91.0) Base, 24.0 (137.0) F40 & F4							
Rate at wheel N/mm (tb./in.) 17.2 (98.0) Base, 19.9 (114.0) F40 & F4	1, 16.6 (94.9) LB6						
Stabilizer Type (fink, finkless, frameless) Link	· ·						
Material & bar diameter Steel, 24.0 (.94), 30.0 (1.18) w/215 Ti	Steel, 24.0 (.94), 30.0 (1.18) w/215 Tires 28.0 (1.1)						
Suspension – Rear	·						
Type and description Trailing arm with stamped control arms section transverse beam.	and open						
Travel Full jounce 99.0 (3.9)							
Full rebound 103.0 (4.5)							
Type(coil, leaf, other) & material Progressive rate coil, HR steel							
Size (léngth x width, coil design height & i.d., bartength & dia.) Spring 290 (11.42) x 105 (4.13) x 2626 (103.4)	x 13.6 (.54)						
	23(131)Base,F40&F41-28(160)Sedans&Coupes 31.0(177)Base Wag (#						
Rate at wheel (Nimm (lb. in.)) 14.6(83) Base, F40&F41-16, 7(95) Sedans&Cope	14.6(83)Base,F40&F41-16.7(95)Sedans&Coupes 37.0(177)Base Wag (#						
Insulators (type & material) Rubber - top & bottom							
11 No. of leaves							
leaf Shackle (comp. or tens.)							
Stabilizer Type (link, linkless, frameless) Linkless function performance by axle b	eam						
Material & bardiameter Steel, 13mm (.51) w/V6, 15mm (.59) w/F4	1 w/13" wheel						
rackbar (type) Not Available	THE THE THE THE TENT						
* 21mm (.82) w/F41 & 14" wheel (%) 27. (#) 31.							

CAVALIER Car Line _ 6-86 issued Revised (●)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

NOTCHBACK HATCHBACK CONVERTIBLE **NOTCHBACK** LIFTGATE **COUPES** COUPES COUPE **SEDANS** WAGONS

Brakes	- Ser	vice			
Descriptio	n				
					Single caliper disc front, duo-servo drum rear
Manufacturer and Front (disc or drum)			Front (disc or dr	um)	Disc Disc
	brake type (std., opt., n.a.) Rear (disc or drum)			nur)	Drum
Self-adjust	ting (std.	, opt., n.a.)			Standard
Special valving	Тур	e (proportion,	delay, metering, o	ther)	
Power bral	ke (std.,	opt., n.a.)			Proportioning. Diagonal split circuit. Standard
Booster typ	pe (remo	te. integral, va	ac., hyd., etc.)		Tandem vacuum
		line, pump, et	c.)		Inline (intake manifold)
Vacuum re	servoir (volume in. ³)			None None
Vacuum pu	ump-type state)	(elec, gear d	riven, belt driven,	•	11
Anti-lock d	evice typ	e (std., opt., i	n.a.) (F/R)		Not Available
Effective ar	ea [cm²((in.²)]*			309 (47.9)
Gross lining	g area [c	m²(in.²)]**(F.F	₹)		381 (59.1)
Swept area	(cm²(in.	²)]***(F/R)			1624 (251.8)
	Oute	erworking diar	neter	F/R	247 (9.72) /
Rotor	Inne	Inner working diameter F/R		F/R	/
	Thic	kness		F/R	22.4 (0.88) /
	Mate	erial & type (ve	ented/solid)	FR	Cast iron, vented /
Drum	Dian	neter & width	r & width F/R		/ 200 x 45 (7.87 x 1.77)
		and material		FR	/ Cast iron, non-finned
Wheel cyline	der bore				57 (2.24) / 16 (63) All over water 17 5 (60)
Master cylin		Bore/strok	e	FR	24 (.94)/35.59 (1.40)
Pedal arc ra					3.7:1
		N(100 lb.) pe	dal load [kPa (psi)]	Not Available
Lining clears	ance			F/R	Self adjusting
		Bonded or	riveted (rivets/seg.)	In-board, outboard-integrally molded
	.	Rivet size		_	Not Applicable
	1		Manufacturer Lining code*****		Delco Moraine
	Front	- <u> </u>			Not Available
	Winder	Material			Semi-metallic
	ľ		nary or out-board		$116.7 \times 54.7 \times 10.92 (4.594 \times 2.157 \times .430)$
			condary or in-board	<u></u>	$125 \times 59 \times 10.2 (4.92 \times 2.32 \times 0.4)$
Brake ining			ess (no lining)		4.72 IB. 3.14 OB (.186 IB. 0.123 OB)
9			riveted (rivets/seg.)		Riveted. (8)
	Rear wheel				Inland Division
	Wilder	Lining Code	****		235 FE
		Material			Organic
		Fili	nary or out-board		168.3 x 43.9 x 3.8 (6.62 x 1.73 x .15)
i			ondary or in-board		<u>199.8 x 43.9 x 4.8 (7.86 x 1.73 x 19)</u>
	L	Shoe thickni	ess (no lining)		1.98 (.07)

^{*}Excludes rivet holes,grooves, chamfers, etc.

[&]quot;Includes rivet holes, grooves, chamfers, etc.

[&]quot;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 width x thickness.

^{*****}Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

Car Line	CAVALIER				
Model Year	1987	Issued _	6-86	Revised (•)	

Body Type And/Or Engine Displacement		Notchback Coupe	Hatchback Coupe	Convertible Coupe	Notchback Sedans	Liftback Wagons		
Tires And	d Wheels (Sta	ndard)	1JC, 1JD00 1JE00			1 ปร	-00	
Size (load range, ply)			P175/80	R-13 BW	P195/70R-13BW	D235/60	DR14 BW	
	Type (bias, radia		Steel Belt		1133/10K-13DW	1 7213/00	JR 14 DW	
	Inflation pres-	Front [kPa (psi)]	JUCCI DETE	co nacrar	·			
Tires	sure (cold) for recommended	Trom (ki a (psr))	_ 240 (35)					
	max. vehicle	Rear [kPa (psi)]	240 (35)					
	Rev./mile_at 70 k	m/h (45 mph)	540					
	Type & material		Steel	· 				
	Rim (size & flang	e type)	13x5.5			14 x 6		
Wheels	Wheel offset		49.0 (1.93)				
		Type (balt or stud)	<u>Stud</u>			<u> </u>		
	Attachment	Circle diameter	100.0 (3.9					
	<u> </u>	Number & size	<u>5-M12 x 1.</u>	<u>5 - 6Н, ТНС</u>). (metric)			
Spare	Tire and wheel (s other describe)	ame, it	T115/70D-1	4, wheel di	ia. 14-width x	4. Inflatio	on 415 (60)	
	Storage position (describe)	& location	T115/70D-14, wheel dia. 14-width x 4. Inflation 415 (60) Flat under rear load floor					
Tires And Wheels (Optional)			1JC, 1			1JE67, 1	JF00	
Size (load ra	nge, ply)		P175/80R-13 W.S.			P215/60R14 WL		
Type (bias, ra	adial, etc.)		Steel Belted Radial			<u></u>		
Wheel (type	& material)		Steel			Not Availab	le	
Rim (size, fla	nge type and offset)		13 x 5.5			Ħ		
Size (load rai	nge, ply)	(+)	P195/70R-13 BW, WS, WL			WL - Availa	ble on 1JE00	
Type (bias, ra	adial, etc.)		Steel Belted Radial					
Wheel (type			Steel					
	nge type and offset)	·······	13 x 5.5			<u>Available o</u>	n 1JE00	
Size (load rai								
Type (bias, ra								
Wheel (type a			<u>Aluminum</u>					
Size (load rai	nge type and offset)	<u> </u>	13 x 5.5			14 x 6.0		
Type (bias, ra						·		
Wheel (type a								
	nge type and offset)							
Spare tire and			T125/70D 35 ubool die 14 uitte 4 161 17 (52)					
(if configuration is different than road tire or wheel, describe optional spare lire and/or wheel location & storage position		i	T125/70D-15, wheel dia. 14-width x 4. inflates 415 (60) Flat under rear load floor.					
Brakes – Parking			(+) Requi	red with sp	ort suspension	, RPO F41.		
Type of control			Grip handle	<u> </u>				
Location of control			In console between front seats					
Operates on			Rear servi		<u> </u>			
:	Type (internal or e	external)			<u> </u>			
If separate	Drum diameter							
from service brakes	Lining size (tength width x thickness)	ıx				<u></u>		

CAVALIER Car Line ____ 1987 6-86 Model Year_ _ Issued _ Revised (•) _

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement

NOTCHBACK **HATCHBACK** CONVERTIBLE NOTCHBACK LIFTGATE COUPES COUPES COUPE SEDANS **WAGONS**

Steerin	g			
Manual (st	d., opt., n.a.)			Standard (IJC, 1JD00)
Power (std	., opt., n.a.)			C+
Adjustable	Adjustable Type		<u> </u>	Standard (IJE, IJF00, Optional IJC, IJD00, Required w/V-6 eng
	eel/column	Manutactu	rer	
(tirt, telesco	pe, otner)	(Std., opt.,	n.a.)	Optional
Wheel dian (W9) SAE .		Manual		@363.5 (14.3 in.) 1JD00, 368mm (14.5 in.) (1JE, 1JF00)
(****) OAL (71100	Power		Same as manual
	Outside	Wall to wall	(l. & r.)	
Turning diameter	front	Curb to curb (l. & r.)		10.59 mm (34.74 ft.)
m (ft.)	Inside	Wall to wall	(i. & r.)	Not Available
	rear	Curb to cur	b (l. & r.)	
Scrub Radi	us"			
	-	Туре		Rack and pinion w/center take-off tie rods - integral
	Gear	Manufacture	er •	Saginaw Steering Gear Div. G.M.C.
Manual	1	Ratios	Gear	Not Applicable
•	ļ	<u> </u>	Overall	22.16:1 (on center)
	No. wheel turns (stop to stop)			3.96
•	Type (coaxial, linkage, etc.)		etc.)	Rack and pinion w/center take-off tie rods - integral
	Manufacturer		- ,	Saginaw Steering Gear Div. G.M.C.
Power		Туре		Rack and pinion w/center take-off tie rods - integral
	Gear	Ratios	Gear	NOT Applicable
	<u> </u>	<u> </u>	Overall	2.88, F41 2.50
	Pump (drive)			Belt off crankshaft pulley
	No. wheel turns (stop to stop)		stop)	2.88
	Туре			Center take-off tie rods, rack and pinion
,	Location (front or rear		
Linkage	of wheels.			
	Tip and t			Rear
		one or two)		Two
Steering	inclination	at camber (de	·g.)	13.5°
axis	Bearings	Upper		Ball bearing
	(type)	Lower		Ball joint
Steering spin	die & ioint tu			Not Available
otoo ing opin	Idio di Jonini ty			
Wheel	Diameter	Inner bearing		
spindle/hub	Thread (si	Outer bearing	-	
	Bearing (ty		-	M20 x 1.5
	_ souring (ty	he)		Integral double row ball, permanently lubricated

[&]quot;The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

[&]quot;See Page 21.

^{0- 1}JC00 models, oval wheel Vert. 362mm (14.25 in) Horiz. 374mm (14.7 in)

METRIC (U.S. Customary)

Body Type And/Or Engine Displacement NOTCHBACK HATCHBACK CONVERTIBLE NOTCHBACK LIFTGATE COUPES COUPE SEDANS WAGONS

Wheel Alignment

	Service	Caster (deg.)	Not adjustable
	checking	Camber (deg.)	+.85° +/65°
	,	Toe-in (outside track-mm (in.))	0° +/10° %
Front	Service	Caster	Not adjustable
wheel at curb mass	reset*	Camber	+.85° +/65°
(wt.)	<u> </u>	Toe-in	0° +/10° %
	Periodic M.V. in- spection	Caster	Not adjustable
		Camber	
		Toe-in	
	Service	Camber (deg.)	Not Applicable
Rear	checking	Toe-in [outside track-mm (in.)]	"
wheel at curb mass	Service	Camber	u
(wt.)	reset*	Toe-in	=
	Periodic M.V. in-	Camber	11
	spection	Toe-in	**

^{*}Indicates pre-set, adjustable, trend set or other. % - Z24 or convertible with V-6 engine, .06° toe-out +/- .10°

Electrical	- Instruments and Equipment	1JC, 1JD, 1JE00	1,1500			
Speed-	Type (analog, digital, std., opt.)	Circular dial with pointer	Digital			
ometer	Trip odometer (std., opt., n.a.)	Optional	Standard			
EGR mainten	ance indicator	Not Available	Not Available			
Charge	Туре	Tell-Tale Warning Light	Gauge			
indicator	Warning device (light, audible)	Not Available	Not Available			
Temperature	Туре	Tell-Tale Warning Light	Gauge			
indicator	Warning device (light, audible)	Not Available	Not Available			
Oil pressure	Туре	Tell-Tale Warning Light	Gauge			
indicator	Warning device (light, audible)	Not Available	Not Available			
Fuel	Туре	Electric gauge with pointer				
indicator	. Warning device (light, audible)	Not Available				
	Type (standard)	Electric 2-speed				
Wind- shield	Type (optional)	Intermittent windshield wiper system				
wiper	Blade length	430 (16.0)				
	Swept area [cm²(in.²)]	Coupes 4900 (759.7), sedan & w	agon 4937 (765.4)			
\Vind-	Type (standard)	Sliding switch on RH instrument cluster pod (IJE.]JF00)*				
shield washer	Type (optional)	Not Available				
W430161	Fluid level indicator (light, audible)	н				
Rear window	wiper, wiper/washer (std., opt., n.a.)					
Horn	Туре	Vibrator				
	Number used	0ne				
	Parking brake warning	light & brake failure warning 1	ight. Restraint system			
Other	warning light and buzz	er, Odometer flag for converter	service. "choke"			
	malfunction tell-tale	warning light - (California onl	v) 'Service Engine Soon'			
	light, low coolant war	ning light, manual trans ups	hift light.			

^{*}Paddle on turn signal lever (1JC, 1JD00)

 Car Line
 CAVALIER

 Model Year
 1987
 Issued
 6−86
 Revised (●)

METRIC (U.S. Customary)

Engine	Description/Carb.
Engine	Code

Electronic Fuel Injection (2.8 Multi-Port FI) RPO LL8 RPO LB6	·	1
---	---	---

Electrical – Supply System

	Manufacturer	Delco Remy
	Model, std., (opt.)	75-525, 75-630 H.D.
	Voltage	12 Volt
Battery	Amps at 0°F cold crank	525, 630 H.D.
	Minutes-reserve capacity	75 minutes base, 90 minutes H.D.
	Amp/hrs 20 hr. rate	*-
	Location	Engine compartment
	Manufacturer	Delco Remy
Alternator	Rating	Diode rectified, 42 amps
Alternator	Ratio (alt. crank/rev.)	2.3:1
	Optional (type & rating)	None
Regulator	Туре	Integral with alternator

Electrical – Starting System

Start, motor	Current drain at 0°F -20°F	305 @ -20°F	
	Engagement type	Selenoid	
Motor drive	Pinion engages from (front, rear)	Front	

Electrical – Ignition System

Туре	Electronic (std., opt., n.a.) Other (specify)				
			Computer controlled - co	il ignition (C3I)	
Coil	Make		Delco Remy	<u> </u>	
	Model		1115461		
	Current	Engine stopped – A	Not Available		
		Engine idling – A	11 11		
	Make		AC spark plug		
	Model		FR3LM	R43CTLSE	
Spark	Thread (mm)		M14x1.25		
Sperk olug	Tightening torque [N·m (lb, ft)]		9-20 (7-15)		
	Gap		0.89 (.035)	1.14 (.045)	
	Number per cylinder		One		
Distributor	Make		Not Applicable		
	Model		11 11		

Electrical - Suppression

Locations & type

Internal alternator capacitor, non-metallic high-tension ignition 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.

Car Line	CAVALIER				
Model Year _	1987	Issued ,	6-86	Revised (●)	

Body Type		NOTCHBACK COUPES	CONVERTIBLE COUPE	HATCHBACK COUPES				
D								
Body	·		,		· · · · · · · · · · · · · · · · · · ·			
Structure			Unitized body construction including front end structure with bolted-on fenders and hood					
Bumper sys front - rear	stem		Bumper fascias are attached to steel impact bar and dual enersorbers for collision energy absorption. (Meets GM 5 mph impact standard).					
Anti-corrosion treatment .			Special anticorrosion materials are used on interior and exterior metal panel surfaces. Materials include one and two-sided galvanized, zincrometal and zinc-iron alloy steels. Special metal conditioners, primers, protective waxes and sealers are used on interior surfaces. Chip resistant plastisol material is applied to exterior lower					
Body F	Miscellaneous	Information	body.					
			Acculic lacque	on water bace acryl	ic onemol			
Type of first	th (lacquer, enamel, on Hinge location (fr	 	Rear	r or water base acryl	ic enamer			
Hood	Type (counterbal		Prop rod					
		internal, external)	Internal					
Trunk	Type (counterbal		Torsion rods					
lid		control (elec , mech., n.a.)	Electrical-Opt	ional				
Hatch-	Type (counterbal	lance, other)			(A)			
back lid	Internal release o	control (elec., mech., n.a.)			Electrical-Opt.			
Station wagon	Station							
		Front	None					
friction, pive	ot, power)	+	11					
Seat cushio	in type-	-						
(e.g., 60/40 wire, foam e	, bucket, bench, etc.)	<u> </u>	Bench G, polyui	rethane padding	· · · · · · · · · · · · · · · · · · ·			
	<u> </u>	 			0 1 11 11 11 11 11 11 11 11 11 11 11 11			
Seat back ty	/pe							
wire, foam e	, oucket, bench, etc.)			<u>rolaing on hatchbacks</u>	<u>-spilt opt./poly. pad</u> ding			
	wire, foam etc.) 3rd seat							
Vent window control (crank, friction, pivot, power) Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.) Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)		Rear Front Rear 3rd seat Front Rear	Bucket @, polyu Bench @, polyu Reclining bucke		e @, polyurethane padding -split opt.)poly, padding			

⁽A) - Two-telescoping gas struts.0 - Up-level design on convertible.

METRIC (U.S. Customary)

Car Line	<u>CAVALIER</u>		_	•	•	
Model Year _	1987	Issued _	6-86	Revise	d (●)	

Body Type	NOTCHBACK SEDANS	LIFTGATE STATION WAGONS

Body	
Structure	Unitized body construction including front end structure with bolted-on fenders and hood.
Bumper system front - rear	Bumper fascias are attached to steel impact bar and dual enersorbers for collision energy absorption. (Meets G.M. 5 mph impact standard).
Anti-corrosion treatment	Special anticorrosion materials are used on interior and exterior metal panel surfaces. Materials include one and two-sided galvanized, zincrometal and zinc-iron alloy stee special metal conditioners, primers, protective waxes and sealers are used on interior surfaces. Chip resistant plastisol material is applied to exterior lower body.

ocation (front, rear) counterbalance, prop) control (internal, external) counterbalance, other) release control (elec., mech., n.a.) counterbalance, other) release control (elec., mech., n.a.)	Acrylic lacquer or water base acrylic enamel Rear Prop rod Internal Torsion rods Electrical-Optional
e control (internal, external) cunterbalance, other) release control (elec., mech., n.a.) cunterbalance, other)	Internal Torsion rods (A) Electrical-Optional
ounterbalance, other) release control (elec., mech., n.a.) ounterbalance, other)	Internal Torsion rods (A) Electrical-Optional
release control (elec., mech., n.a.) punterbalance, other)	Torsion rods (A) Electrical-Optional
ounterbalance, other)	Electrical-Optional
release control (elec., mech., n.a.)	
nk, Front	None
Rear	None
Front	Bucket, polyurethane padding
ch, Rear	Bench polyurethane padding
3rd seat	None
Front	Reclining bucket, polyurethane padding
ch, Rear	Rench (full folding on station washes and it and it
3rd seat	Bench (full folding on station wagons-split opt)poly. paddi None
	Front ch, Rear 3rd seat Front ch, Rear

(A) - Lift gate, two-telescoping gas struts.

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

Car Line	CAVAL I ER			-
Model Year _	1987	Issued 6-86	Revised (•) _	

Body Type			NOTCHBACK COUPE	CONVERTIBLE COUPE	HATCHBACK COUPES
Restrai	nt System				
Active	Standard/optiona	1	Standard		•
restraint system Type and description		tion	Front-Seat belt and shou Rear-Seat belt and should	der belt system at ou	ter nositions (2) *
	Location		Front-Belt and shoulder I reel in lower lock pilla	pelt attached to lock	pillar with inertia
	Standard/optiona		Not Available		
Passive seat belts	Power/manual		П		
	2 or 3 point				
	Knee bar/lap belt		11		·
Frame					
Type and de unitized fran	escription (separate fra ne, partially-unitized fr	ame, ame)	Body-frame integral with	bolt-on power train o	cradle
Glass		SAE Ref. No.			
Windshield g surface area	glass exposed 1[cm²(in.²)]	S1	7487 (1160.5)		
Side glass e area (cm² (in	xposed surface .²)] - total 2-sides	S2	10912 (1691.4)	·	11478 (1779.1)
Backlight gla surface area	ass exposed I [cm²(in.²)]	S3	5154 (798.9)	3393 (525.9)	8685 (1346.2)
Total glass e area [cm²(in	xposed surface	S4	23553 (3650.7)	21792 (337.8)	27650 (4285.8)
Windshield g	glass (type)		Curved - Laminated Pl		
Side glass (t	····		Curved - Tempered Pla	te	
3acklight gla	iss (type)		Curved - Tempered Pla	te	

^{*} Rear seat belt system at center position (1) (exc. convertible, convertible - TBD).
** Rear belts attached to underbody and rear package shelf (exc. convertible).

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

Car Line	CAVALIER		•	•	
Model Year _	1987	Issued _	6-86	_ Revised (•)	

Body Type

NOTCHBACK	LIFTGATE
SEDANS	STATION WAGON
JEDANS	STATION WAGON

Restraint System

	Standard/optional	
Active		Standard
restraint system	Type and description	Front-Seat belt and shoulder belt system with retractor (2). Rear-Seat belt and shoulder belt system at outer positions (2). *
	Location	Front-Belt and shoulder belt attached to lock pillar with inertia reel in lower lock pillar. Frt buckle attached to underbody. **
	Standard/optional	Not Available
Passive seat . belts	Power/manual	H
	2 or 3 point	п
	Knee bar/lap belt	

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)

Body-frame integral with bolt-on power train cradle

Glass	SAE Ref. No.		
Windshield glass exposed surface area [cm²(in.²)]	S1	7487 (1160.5)	
Side glass exposed surface area [cm²(in.²)] - total 2-sides	S2	11532 (1787.5)	16954 (2627.9)
Backlight glass exposed surface area [cm²(in.²)]	S3	5691 (882.1)	4892 (758.3)
Total glass exposed surface area [cm²(in.²)]	S4	24710 (3830.0)	29333 (4546.6)
Windshield glass (type)		Curved - Laminated Plate	•
Side glass (type)		Curved - Tempered Plate	
Backlight glass (type)		Curved - Tempered Plate	

^{*} Rear seat belt system at center position (1).

** Rear belts attached to underbody and rear package shelf.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car Line	CAVALIER		·		
Model Year	1987	Issued	6-86	Revised (●)	

1 Body Type

NOTCHBACK HATCHBACK CONVERTIBLE NOTCHBACK LIFTBACK COUPES COUPES COUPE **SEDANS** STAT: ION WGNS.

Air conditioninauto, temp co		Optional (manual control)		
	···	Digital (integ. w/stereo radio)		
Clock (digital,		Not Available		
Compass / the		Standard, floor (full, 100, 1000 and cockpit 10E, 10F00)		
Console (floor				
Defroster, ele-	·	Optional, except convertible Not Available		
	Diagnostic monitor (integrated, individual)			
	Instrument cluster (list instruments)	Fuel, temp., oil pres., battery charge, digital speedo *		
lectronic	Keyless entry	Not Available		
icon armo	Tripminder (avg. spd., fuel)	· · · · · · · · · · · · · · · · · · ·		
	Voice alert (list items)	- 4		
	Other			
	Headlamp on warning	Standard (chimes)		
uel door lock	(remote, key, electric)	Not Available		
	Auto head on / off delay, dimming	11		
	Cornering	II .		
	Courtesy (map, reading)	* (Standard on Convertible)		
	Door lock ignition	Not Available		
	Engine compartment	*		
mps	Fog	Not Available		
	Glove compartment	**		
	Trunk	'*		
	Other Ash Tray	Standard		
	Day/night (auto. man.)	Standard (manual)		
	L.H. (remote, power, heated)	Optional (remote)		
hrrors	R. H. (convex, remote, power, heated)	Opt., manual(convex) IJC, IJD, IJE27, 35, 69, 77. Std. IJE67, IJ		
	Visor vanity (RH / LH, illuminated)	Not Available		
arking brake	-auto release (warning light)			
ai king biake	Door locks / deck lid - specify	Standard (manual release) lower area of speedometer		
	Seat (2-4-6 way) heated (driver, pass, other)	Optional - both		
ower	lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2-preset, recline)	Optional, 6-way power seat		
quipment	Side windows	Optional all except convertible, standard on convertible		
	Vent windows	Not Available		
	Rear window	11		
adio	Antenna (location, whip, w/shield, power)	Front fender-R.H., fixed mast standard (exc. 1JC00)		
stems	- AM, FM, stero, tape, CB	AM standard (exc. 1JC00) Stereo optional		
	Speaker (number, location) Premium sound	2-Standard, I.P.(exc. 1JCOO), dual rear included w/stere		
ool open ain	fixed (flip-up, sliding, "T")	Optional (removable) (27, 77, 69)		
need control		Optional		
	g device (light, buzzer,etc.)	Not Available		
achometer (r	<u>`</u>	Optional (IJC, IJD, IJE00) Standard (IJF00)		
	stem - mobile	operation (100) 100) record actinual a (10100)		

Trans. shift lever and ignition. Manual Trans.-Lock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.

^{*-}Avail in optional lighting package only. **-Optional lJE00, Standard lJF00

CarLine <u>CAVALIER</u>

Model

Issued 6-86 Revised (•)

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 J1100 "Motor Vehicle Dimensions," unless otherwise specified.

	SAE	NOTCHBACK	CONVERTIBLE	НАТСНВАСК
Badu T	Ref.	COUPE	COUPE	COUPE
Body Type Width	No.		COOLE	COOL
Fread (front)	W101	1406 (55.4)		
Trear (rear)	W102	1400 (55.4)		
/ehicle width	W102	1677 (66.0)		
Body width at Sg RP (front)	W117	1652 (65.0)		
/ehicle width (front doors open)	W117			
/ehicle width (rear doors open)	W120	3684 (145.0)		
ront fender overall width	W106	1652 (65.0)		
Rear fender overall width	W107	1677 (66.0)		
Tumble-home (deg.)	W122	21.5°		
tumble-nome (deg.)	*****	[21.3		
Length				
Vheelbase	L101	2571 (101.2)	-	
Vehicle length	L103	4378.5 (172.4)		
Overhang (front)	L104	896.5 (35.3)		
Overhang (rear)	L105	911.0 (35.9)		
Jpper structure length	L123	2335 (91.9)	2340 (92.1)	2800 (110.2)
Rear wheel C/L "X" coordinate	L127	2354 (92.7)	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Cowl point "X" coordinate	L125	247 (9.7)		
ront end length at centerline	L126	1291 (50.8)		1361 (53.6)
Rear end length at centerline	L129	570 (22.4)	590 (23.2)	117 (4.6)
	1 2.23	570 (22.4)		117 (4.0)
Height "				·
Passenger distribution (front/rear)	PD1,2,3		8.5	
runk/cargo load			**	
/ehicle height	H101	1275 (50.2)	1339 (52.7)	1274 (50.2)
Cowl point to ground	H114	898 (35.4)		
Deck point to ground	H138			
Rocker panel-front to ground	H112	196 (7.7)		
Bottom of door closed-front to grd.	H133	247 (9.7)		
Rocker panel-rear to ground	H111	161 (6.3)		
Bottom of door closed-rear to grd.	H135			
Windshield slope angle	H122	58.5°	58.8°	58.7°
Backlight slope angle	H121	51.0°	54.5°	69.0°
	.L	1 3 4 3 0		
Ground Clearance "				
ront bumper to ground	H102	370 (14.6)	· · ·	365 (14.4)
Rear bumper to ground	H104	266 (10.5)		
Bumper to ground (front	† · · · · ·		 	
at curb mass (wt.)}	H103	381 (15.0)		376 (14.8)
Bumper to ground frear	 			
sumper to ground (rear at curb mass (wt.))	H105	369 (14.5)		368 (14.5)
Angle of approach (degrees)	H106	26.5		
Angle of departure (degrees)	H107	13.1°		
Ramp breakover angle (degrees)	H147	12.9°		
Axle differential to ground (front / rear)	H153		· · · · · · · · · · · · · · · · · · ·	
Min. running ground clearance	H156	115 (4.5)		
min, i pri i ming group no cical al ico	11130	Rear stabilizer		

^{**}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.

'n

METRIC (U.S. Customary)
Car and Body Dimensions

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 J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type Width	SAE Ref. No.	NOTCHBACK SEDANS	LIFTGATE STATION WAGONS
Tread (front)	W101 ·	1406 (55.4)	
Frear (rear)	W102	1401 (55.2)	
Vehicle width	W103	1685 (66.3)	
Body width at Sg RP (front)	W117	1652 (65:0)	
/ehicle width (front doors open)	W120	3218 (126.7)	
/ehicle width (rear doors open)	W121	2832 (1111.5)	
Front fender overall width	W106	1652 (65.0)	
Rear fender overall width	/W107	1685 (66.3)	
	W122	21.5°	' 22.0°
Tumble-home (deg.)	W122	[21.3	22.0
ength	1	T	
Vheelbase	- L101	:257.1 (101.2:)	100015 (1775-51
ehicle length '	1 L103	4428:0 (174.3)	4433.5 (174.5)
Overhang (front)	L104	896.5 (35.3)	
Overhang (rear) ,	· L105	960.5 (37.8)	966.0 (38.0)
Joper structure length	L123	2363 '('93.0)	2924 (115.1)
Rear wheel C/L "X" coordinate	L127	2354 (92.7.)	
Cowl point "X" coordinate	· L125	245 (9:6)	246 (9.7)
ront end length at centerline	L126	1291 (50.8)	
Rear end length at centerline	L129	595 (23.4)	34 (1.3)
Helght 13			
Passenger distribution (front/rear)	PD1.2,3		-11
runk/cargo loaid			100
/ehicle height	H101	1323 (52.1)	1342 (52.8)
Cowl point to ground	H114	898 (35.4)	905 (35:6)
Deck point to ground	H138		
Rocker panel-front to ground	¹ H112	196 (7.7)	205 (8.1)
Bottom of door closed-front to grd	H133	247 (9.7)	265 (10.4)
Rocker panel-rear to ground	H111	261 (10.3)	1184 (7.2)
Bottom of door closed-rear to grd.	H135	283 (11.1)	259 (10.2)
Vindshield slope angle	'H122	55.0	
Backlight slope angle	H121	49.0	35.5
Ground Clearance	1,1121		1) 33.3
	Luca	270 (/:14 -6)	267 (74 '4)
Front bumper to ground Rear bumper to ground	H102	370 (14:6) 265 (10:4)	367 (14.4) 273 (10.7)
Burnper to ground ffront			'
it curb mass (wt.)]	H103	381 (15.0)	382 (15:0)
Bumper to ground (rear at curb mass (wt.)]	H105	368 (14:5)	359 (14.1)
Angle of approach (degrees)	H106	26.5°	26.3°
Angle of departure (degrees)	' H107	13.9°	14.4°
Ramp breakover angle (degrees)	H147	12:9°	14.3°
xle differential to ground (front / rear)	H153		
Ain. running ground clearance	H156	115 (4.5)	, 132 (5.2)
. 33		Rear stabilizer brad	

^{**}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 Weight Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

METRIC (U.S. Customary) Car and Body Dimensions

See Key Sheets for definitions

Body Type

SAE Ref. No.	NOTCHBACK COUPE	CONVERTIBLE COUPE	HATCHBACK COUPE

Issued 6-86

Revised (•)

CAVALIER

1987

Profit Compartment			
Sg RP front, "X" coordinate	L31	1113 (43.8)	1

Sg RP front, "X" coordinate	L31 1113 (43.8)	1128 (44.4)	
Effective head room	н61 958 (37.7)	992 (39.1)	955 (37.6)
Max. eff. leg room (accelerator)	L34 1071 (42.2)	1090 (42.9)	1071 (42.2)
SgRP to heel point	нзо 233 (9.2)	230 (9.1)	233 (9.2)
SgRP to heel point	L53 872 (34.3)	897 (35.3)	872 (34.3)
Back angle	L40 25.0		0,2 (0,10)
Hip angle	L42 96.0	99.0	96.0
Knee angle	L44 126.5	133.0	126.5
Footangle	L46 87.0		
Design H-point front travel	L17 192 (7.6)		
Normal driving & riding seat track trvt.	L23 171 (6.7)		
Shoulder room	w ₃ 1364 (53.7)		
Hiproom	ws 1248 (49.1)	1230 (48.4)	1248 (49.1)
** Upper body opening to ground	ньо 1202 (47.3)		1 12 13 (13.17
Steering wheel maximum diameter	w ₉ 375 (14.8)	368 (14.5)	375 (14.8)
Steering wheel angle	н18 20.0	18.5	20.0
Accel, heel pt. to steer, whill criting	L11 Not Available		
Accel, heel pt. to steer, whil, cntr	H17		
Steering wheel to C/L of thigh	н13 97 (3.8)	108 (4.3)	97 (3.8)
Steering wheel torso clearance	L7 388 (15.3)	380 (15.0)	388 (15.3)
Headlining to roof panel (front)	нзт 10 (0.4)		1 000 (10.0)
Undepressed floor covering thickness	н67 16 (0.6)	17 (0.7)	16 (0.6)
Rear Compartment	All Interior Dimensions	Are Measured With The Seating Reference	

Rear Compartment	A

Adjuster Notch) Forward Of Rearmost Seat Position.

	Sg RP Point couple distance	L50	720 (28.3)	705 (27.8)	715 (28.1)
	Effective head room	H63	931 (36.7)	949 (37.4)	925 (36.4)
	Min. effective leg room	L51	807 (31.8)	791 (31.1)	803 (31.6)
	Sg RP (second to heel)	H31	259 (10.2)		252 (9.9)
	Knee clearance	L48	-21 (-0.8)	-36 (-1.4)	-27 (-1.1)
	Compartment room	L3	635 (25.0)	593 (23.3)	643 (25.3)
	Shoulder room	W4	1335 (52.6	964 (38.0)	1322 (52.0)
	Hiproom	W6	1265 (49.8)	964 (38.0)	1234 (48.6)
**	Upper body opening to ground	H51			1257 (10.0)
	Backangle	L41	25.0	19.0	25.0
	Hip angle	L43	78.0	73.0	78.0
	Knee angle	L45	78.5	79.5	81.0
	Foot angle	L47	115.5		116.5
	Headlining to roof panel (second)	H38	9 (0.4)		10 (0.4)
	Depressed floor covering thickness	H73	18 (0.7)	19 (0.7)	18 (0.7)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	374	(13.2)	294 (10.4)	<u> </u>
** Liftover height	H195	750	(29.5)		755 (29.7)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)	Compact		
Interior volume index (cu. ft.)	85.0	77.6	84.0
Trunk/cargo index (cu. ft.)	13.2	10.3	14.7

All linear dimensions are in millimeters (inches).
** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)
Car and Body Dimensions
See Key Sheets for definitions

-CAVAL'I ER Car'Line . 1987

·6-86 Model Year ¹issued

'Revised'(•)

	SAE	NOTCHBACK		LIFTGATE	
Body Type	Ref.	SEDANS		STATION WAGONS	
	No.	1JC-1JD69	1JE69	1JC-1JD35	1JE35

Front Compartment		· · · · · · · · · · · · · · · · · · ·			
Sg RP front, "X" coordinate	·L31	1113 (43.8)	1128 (44.4)	11.13 (43.8)	1128 (44.4)
· Effective head room	"H61	980 (38.6)	1008 (39.7)	973 (38.3)	910 (35.8)
Max. eff. leg room (accelerator)	-L34	1072 (42.2)	1090 (42.9)	1072 (42.2)	1089 (42.9)
SgRP to heel point	H30	257 (10.1)	230 (9.1)	256 (10.1)	230 (9.1)
SgRP to heel point	¹L53	866 (34.1)	897 (35.3)	866 (34.1)	897 (35.3)
8ack angle	1 L40	25.0			
Hip angle	L42	98.0	99.0	98.5	99.0
Knee angle	L44	127.0	132.0	127.5	132.0
Foot angle	L46	87.0			
Design H-point front travel	L17	192 (7.6)			
Normal driving & riding seat track trvl.	Ľ23	174 (6.7)		170 (6.7)	
Shoulder room	W3	1363 (53.7)			
Hip room	W5	1240 (48.8)	<u> </u>	1241 (48.9)	
Upper body opening to ground	H50	1202 (47.3)		1219 (48.0)	
Steering wheel maximum diameter	W9	375 (14.8)	368 (14.5)	375 (14.8)	368 (14.5)
Steering wheel angle	H18	20.0	18.5	20.0	18.5
Accel, heel pt. to steer, whi, cntr	L11	Not Available			
Accel, heel pt. to steer, whill cntr	H17	Not Available			
Steering wheel to C/L of thigh	H13	86 (3.4)	108 (4.3)	88 (3.5)	108 (4.3)
Steering wheel torso clearance	L7	377 (14.8)	380 (15.0)	377 (14.8)	380 (15.0)
Headlining to roof panel (front)	H37	10 (0.4)		13 (0.5)	
Undepressed floor covering thickness	H67	16 (0.6)		······································	
		1 1 1 1 1 1 1	Are Measured With The C	nation Pateronne Brinti/CoOD	

Undepressed floor covering (nickness	H6/	10 (0.0)					
Rear Compartment		All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.					
Sg RP Point couple distance	L50	758 (29.8)	743 (29.3)	741 (29,2)			
Effective head room	H63	964 (38.0)		986 (38.8)			
Min. effective leg room	L51	871 (34.3)	818 (32.2)	857 (33.7)	802 (31.6)		
Sg RP (second to heel)	H31	272 (10.7)		259 (10.2)			
Knee clearance	L48	9 (0.4)	-16 (-0.6)	2 (0.1)	-25 (-1.0)		
Compartment room	L3	657 (25.9)	622 (24.5)	660 (26.0)			
Shoulderroom	W4	1364 (53.7)					
Hip room	W6	1241 (48.9)		1244 (49.0)			
Upper body opening to ground	H51	1254 (49.4)		1254 (49.4)			
Back angle	L41	26.0		25.0			
Hip angle	L43	83.0		81.0	79.0		
Knee angle	L45	85.0	1 80.0	86.0	81.0		
Footangle	L47	118.0	116.5	121.0	117.0		
Headlining to roof panel (second)	H38	8 (0.3)		13 (0.5)			
Depressed floor covering thickness	·H73	18 (0.7)		20 (0.8)			

Luggage Compartment

Usable luggage capacity [L (cu./t.)]	V.1	386 (13.6)	
** Liftover height-	H195	755 (29.7)	490 (19.3)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)	Compact	
Interior volume index (cu. ft.)	91.1	90.9
Trunk/cargo index (cu. ft.)	13.6	34.1

All linear dimensions are in millimeters (inches). ** EPA Loaded Vehicle Weight, Loading Conditions

CAVALIER Car Line _ Model Year 1987 Issued 6-86

METRIC (U.S. Customary)
Car and Body Dimensions See Key Sheets for definitions

Body	Туре
	1 y p a

SAE Ref.	НАТСНВАСК	LIFTBACK
	COUPE	WAGONS
	<u> </u>	

Station Wagon - Third Seat

Sg RP couple distance	L85	Not	
Shoulder room	W85	Applicable	
Hip room	W86		
Effective leg room	L86		
Effective head room	H86		
Sg RP to heel point	H87		
Knee clearance	L87		
Seat facing direction	SD1		
Back angle	L88		,
Hip angle	L89		
Knee angle	L90		
Foot angle	L91		

Station Wagon - Cargo Space

			
Cargo length (open front)	L200		
Cargo length (open second)	L201		
Cargo length (closed front)	L202		1709 (67.3)
Cargo length (closed second)	L203	Not	980 (38.6)
Cargo length at belt (front)	L204	Applicable	1581 (62.2)
Cargo length at belt (second)	L205		837 (33.0)
Cargo width (wheelhouse)	W201		944 (37.2)
Rear opening width at floor	W203		1226 (48.3)
Opening width at belt	W204		1206 (47.5)
Max. rear opening width above belt	W205		970 (38.2)
Cargo height	H201		846 (33.3)
Rear opening height	H202		764 (30.1)
Tailgate to ground height	H250		490 (19.3)
Front seat back to load floor height	H197		
Cargo volume index [m³(ft,³)]	V2		1824L (64.4 cu. ft.)
Hidden cargo volume (m³(ft.³))	V4		
Cargo volume, index-rear of 2-seat	V10		966 (34.1)

Hatchback -- Cargo Space

Cargo length at front seatback height	L208	1106	(43.5)	Not
Cargo length at floor (front)	L209	1622	(63.9)	Applicable
Cargo length at second seatback height	L210	745	(29.3)	
Cargo length at floor (second)	L211	906	(35.7)	
Front seatback to load floor height	H197	602	(23.7)	
Second seatback to load floor height	H198	384	(15.1)	
Cargo volume index [m³(ft.³)]	V3	1085	(38.3)	
Hidden cargo volume [m³(ft.3)]	V4			
Cargo volume index-rear of 2-seat	V11	419	(14.8)	

Aerodynamics*		N/B	Coupe	Convertible	H/B Coupe	Sedan	Wagon
Wheel lip to ground, front	H172	644	(25.4)		7		648 (25.5)
Wheel lip to ground, rear	H173	628	(24.7)			616 (24.3)	637 (25.1)
Frontal area [m²(ft²)]	FA	1.84	(19.8)			1.90(20.4)	1.94(20.9)
Drag coefficient (Cd)						I	

^{*} EPA Loaded Vehicle Weight, Loading Conditions All linear dimensions are in millimeters (inches) unless otherwise noted.

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

Car Line	CAVALIER			
Model Year_		Issued	6-86	Revised (•)

Body Type

NOTCHBACK	CONVERTIBLE	HATCHBACK	NOTCHBACK	LIFTBACK
COUPE	COUPE	COUPE	SEDANS	STATION WGNS.

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location	
Front	X - Fiducial mark to vertical base grid line - front measured horizontally, from the base grid line to the front fidelic located on top of the front seat adjuster mounting bold.	lucial mark
TOTA	Y - Fiducial mark to centerline of car - front, width meas from centerline car to fiducial mark located on top of adjuster mounting bolt.	surement made the front seat
	Z - Fiducial mark to horizontal base grid line - front, me vertically from base grid line to front fiducial mark of the front seat adjuster mounting bolt.	
lear	X - Fiducial mark to vertical base grid line - rear, measured horizontally from the base grid line to rear fiducial the rail (compartment pan - longitudinal).	ured mark located on
ear	Y - Fiducial mark to centerline of car - rear, width measu from centerline of car to fiducial mark located on the (compartment pan - longitudinal).	rement made rail
fiducial Aark lumber	Z - Fiducial mark to horizontal base grid line - rear, mea vertically from the base grid line to rear fiducial ma the rail (compartment pan - longitudinal).	isured irk located on
W21	504 (19.8)	
L54	(*) 746 (29.4)	
ront H81 H161	(#) -54 (-2.1) -36 (-1.4) -54 (-2.1) Curb 293 (11.5)	300 (11.8)
** H163	269 (10.6)	278 (10.9)
W22	440 (17.3)	
L55	(*)2900 (114.2) (*)2951 (11	6.2)
Rear H82	(#) 62 (2.4)	405 135 -
H162	Curb 413 (16.3) 381 (15.0)	429 (16.9) 401 (15.8)
43 H164	301 (13.0)	1 401 (15.8)
	(*) Base Grid is 2000mm Line	
_	(#) Base Grid is 300mm Line	

^{*} Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

All linear dimensions are in millimeters (inches).
** EPA Loaded Vehicle Weight, Loading Conditions

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

Car Line	CAVALIER		•	•	
Model Year	1987	Issued	6-86	Revised	(•)

Body	Tyna
buuy	· ype

NOTCHBACK COUPE	CONVERTIBLE COUPE	l = - · - · ·		LIFTBACK STATION WAGONS
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Lamps and	Headlamp Sh	ape*	<u> </u>			<u> </u>
	Headlamp Highe		646(25.4)	647(25.5)		
	(SAE - H127)	Lowest	646(25.4)			647(25.5)
Height above ground to center of bulb	Taillamp	Highest**	748(29.4)	676(26.6)	748(29.4)	589(23.2)
or marker	(SAE - H128)	Lowest				, , , , , , , , , , , , , , , , , , , ,
	Sidemarker	Front	501(19.7)			503(19.8)
	*	Rear	526(20.7)			757(29.8)
	Headlamp	Inside	424.5(16.7)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		Outside**	600.0(23.6)			Married Till And
Distance from	C/L of car to					
center of bulb			591.0(23.3)	678.0(26.7	1 591 0/23	3) 714.5(28.1)
	Directional	Front	569.0(22.4)	10,000,000	2100110(201	271717.5(20,1)
		Rear	591.0(23.3)	678.0(26.7) 591.0(23.	3) 714.5(28.1)
	Lo beam		Optional			
lalogen eadlamp	Hi beam		Optional			
std., opt., n.a.) Replaceable builb		Sealed beam entire	unit replaced			
	Shape		Rectangular			
	Lo beam		Not available			
leadlamp	Hi beam		11 (1	***************************************		
ther than bove	Replaceabl	e	n u			
· · •	Shape		11 11			
	Туре		11 11			

^{*} Measured at curb mass (weight).

** If single lamps are used enter here.

All linear dimensions are in millimeters (inches) unless otherwise noted.

Car Line	CAVALIER				
Model Year	1987	Issued	6-86	Revised (•)	9-86

		·		Vehicle N	Aass (w	eight)		
Part Control of the C	CUF	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION			
Model		_	_	Pass	n Front	Pass In Rear		SHIPPING MASS, kg (weight, lb.)**
	Front	Rear	Total	Front	Rear	Front	Rear	(weight, ie.)
Cavalier		171 h	1042 7					1010-5
2-Door Notchback	672.6	371.1	1043.7					1012.7
Coupe 1JC27	(1483)	(818)	(2301)					(2233)
4-Door Notchback	678.8	385.3	1064.1	 			-	1033.1
Sedan 1JC69	(1496)	(849)	(2345)					(2278)
	(1123)	10.27		 				(22/0)
4-Door Station	669.9	419.6	1089.5		 			1058.5
Wagon 1JC35	(1477)	(925)	(2402)					(2333)
Cavalier 'CS'	676.0	202 6	1070 7		ļ. <u>.</u>			1,000
2-Door Hatchback	676.8	393.9	1070.7		ļ. <u></u>			1039.7
Coupe 1JD77	(1492)	(868)	(2360)				 	(2292)
4-Door Notchback	681.8	386.9	1068.7	-			-	1037.7
Sedan 1JD69	(1503)	(853)	(2356)	 	ļ	 	 	(2288)
70005	(1303)	(000)	\23307	- 	ļ	 	+	12200)
4-Door Station	672.8	421.3	1094.1					1063.1
Wagon 1JD35	(1483)	(929)	(2412)		†	1	1	(2344)
							1	
Cavalier 'RS'								
2-Door Notchback	690.7	380.6	1071.3					1040.3
Coupe 1JE27	(1523)	(839)	(2362)					(2293)
2-Door Hatchback	691.2	401.8	1093.0				-	1062.0
Coupe 1JE77	(1524)		(2409)					(2341)
Coape 10L77	(1324)	(000)	(2403)	 		 		12341)
4-Door Notchback	694.0	393.6	1087.6		 	<u> </u>		1056.6
Sedan 1JE69	(1530)		(2398)					(2329)
4-Door Station	686.6	429.7	1116.3					1085.3
Wagon 1JE35	(1514)	(947)	(2461)			ļ		(2393)
2 Dann Communitible	718.9	404 0	3142 0			 	-	1111.9
2-Door Convertible Coupe 1JE67	(1585)	424.0	1142.9 (2520)			 	-	(2451)
coupe 10207	(1363)	(333)	(2320)			-	1	(2431)
Cavalier Z24				<u> </u>			†	
2-Door Notchback	752.0	387.2	1139.2				1	1108.2
Coupe 1JF27	(1658)	(854)	(2512)					(2443)
2 D 11:1 11	750 5	400 0	-1161 -	1			ļ	
2-Door Hatchback	753.5	408.2	1161.7	<u> </u>			 	1130.7
Coupe 1JF77	(1661)	(900)	(2561)			 	-	(2493)
·				 			+	
				 			1	
	 	 -					 	-
						ļ	1	· · · · · · · · · · · · · · · · · · ·

[.] Reference – SAE J1100. Motor vehicle dimensions, curb weight definition. ** Shipping mass (weight) definition –

 Car Line
 CAVALIER

 Model Year
 1987
 Issued
 6-86
 Revised (●)

		Optional Equipment Differential Mass (weight)*				
Equipment		IASS, kg. (wei		Remarks		
Removable Sun Roof	Front 3.4	Rear 3.8	7.2			
RPO AD3	(7.5)	(8.4)	(15.9)	All except station wagons and convertible		
13.0 7.00	\ <u></u>	(0.17	(19.0)	Convertible		
Six Way Power Seat-Driver						
RPO AG9						
Split Folding RR Seatback	.2	1.0	1.2	Station wagons and hatchbacks		
RPO AM9	(0.4)	(2.2)	(2.6)	Station wayons and nateribacks		
		,				
Power Door Lock System	6	1.0	1.6	2-Doors		
RPO AU3	(1.3)	(2.2)	(3.5)			
	1.0	1.6	2.6	4-Doors		
	(2.2)	(3.5)	(5.7)			
Power Liftgate Release	4	1.6	1.2	Station Wagons		
RPO AU6	(-0.9)		(2.6)	- Augusta		
Power Trunk Opener	2	.8	.6	'CS', 'RS' & 'Z24' series,		
RPO A90	(-0.4)	(1.8)	(1.4)	except station wagons		
Power Windows RPO A31	1.0	1.8	2.8	2-Doors, std. on convertible		
	(2.2)	(4.0)	(6.2)			
	1.8	3.2	5.0	4-Doors		
	(4.0)	(7.0)	(11.0)			
Floor Mats-Front Only	1.2	0	1.2	Requires RPO B35		
Color keyed Carpet	(2.6)	(0)	(2.6)	Wedge West West State		
RPO B34						
loor Mats-Rear Only	0	.8	.8	Requires RPO B34		
Color keyed Carpet	(0)	(1.8)	(1.8)			
RPO B35						
Body Side Moldings	.8	1.0	1.8	'Cavalier' series		
RPO B84	(1.8)	(2.2)	(4.0)			
						

^{*}Also see Engine - General Section for dressed engine mass (weight).

Car Line CAVAL I ER			
1007		C 0.0	the second of the second of
Model Year 1907	_ Issued	0-00	Revised (•)

		0	ptional Equi	ipment Differential Mass (weight)*		
	MASS, kg. (weight, lb.)					
Equipment	Front	Rear	Total	Remarks		
Door Edge Guards	.2	0	.2	'RS' Series		
(Black) RPO B91	(0.4)	(0)	(0.4)			
Door Edge Guards	0	.2	.2	'Cavalier' and 'CS' Series		
(Bright) RPO B93	(0)	(0.4)	(0.4)			
Intermittent Windshield	.2	0	.2			
Wiper System RPO CD4	(0.4)	(0)	(0.4)			
Rear Window Wiper and	-,8	4.4	3.6	'RS' Station wagons and		
Washer RPO C25	(1.8)	(9.7)	(7.9)	'RS' & 'Z24' hatchbacks		
Electric Rear Window	0	.4	.4	All except convertible		
Defogger RPO C49	(0)	(0.9)	(0.9)			
Air Conditioning	19.2	-1.4	17,8	With 4 & 5-speed Manual Trans.		
RPO C60	(42.3)	(-3.1)	(39.2)			
	21.4	-1.6	19.8	With Automatic Trans		
	(47.2)	(-3.5)	(43.7)			
Rear Window Louvers	8	8.6	7.8	'RS' and 'Z24' hatchback		
RPO DE 1	(1.8)	(18.9)	(17.1)			
Sport Mirrors-Left Hand	.4	0	.4	Standard convertible & 'Z24' series		
Remote, RH Manual RPO D35	(0.9)	(0)	(0.9)	optional balance of models		
KPU U35	<u> </u>					
Rear Compartment	4	2.8	2.4	Station wagons and hatchbacks		
Cargo Cover RPO D42	(-0.9)	(6.2)	(5.3)			
Rear Spoiler RPO D52	8	3.5	2.7	"RS" and "Z24" hatchbacks		
	(-1.8)	(7.7)	(5.9)			
Heavy Duty Front and	2.0	0	2.0	All except station wagons and 'Z24'		
rear suspension RPO F40	(4.4)	(0)	(4,4)	series		
,						
			·			
	L					

^{*}Also see Engine - General Section for dressed engine mass (weight).

Car LineCAVALIER	·	•
Model Year 1987	Issued 6-86	Revised (•)

		0	ptional Equi	pment Differential Mass (weight)*
Equipment	MASS, kg. (weight, lb.)			
	Front	Rear	Total	Remarks .
Sport Suspension	2.8	4.4	7.2	'Cavalier', 'CS' series and
RPO F41	(6.2)	(9.7)	(15.9)	convertible
Engine Block Heater	.2	0	.2	
RPO KO5	(0.4)	(0)	(0.4)	
Electronic Speed Control	1.8	0	1.8	
with Resume Speed RPO K34	(4.0)	(0)	(4.0)	
2.8 Liter V6 (173 CID)	53.4	1.0	54.4	Optional convertible, standard
Engine RPO LB6	(117.7		(119.9)	724 series
Five-Speed Manual	5.0	- 4	4.6	
Transmission RPO MM5	(11.0)		(10.1)	
Automatic Transmission	27.5	0	27.5	
RPO_MX 1	(60.6)		(60.6)	
Comfortilt Steering	8	4	1.2	
Wheel RPO N33	(1.8)	(0.9)	(2.7)	
Power Steering	8.8	.4	9.2	Standard 'RS' and 'Z24' series
Required with V-6 engine RPO N40	(19.4)	(0.9)	(20.3)	optional 'Cavalier' and 'CS' series
Sport Wheel Covers				
Sport Wheel Covers RPO PB2	.8	.8	(3.6)	'Cavalier' and 'CS'
D.11. Ub. 1- 14H DOO DC4		· · · · · · · · · · · · · · · · · · ·		
Rally Wheels 14" RPO PC4	1.6 (3.5)	(3.5)	3.2 (7.0)	'RS' series.
Uhaal Tuis Dis				
Wheel Trim Rings RPO PO6	(0.9)	(0.9)	.8 (1.8)	'Cavalier' and 'CS' series
Aluminum Wheels (13") RPO PX1	(0.9)	(0.9)	.8 (1.8)	'RS' series
		(0.3)	_ (1.0)	
Heavy Duty Battery (Mandatory for Canada)	2.8	4	2.4	All except L-4 engine with
RPO UA1	(6.2)	(-0.9)	(5.3)	automatic trans, forced with L-4 and automatic trans.
				200000000000000000000000000000000000000
	·		:	
Iso see Engine - General Section for dressed engin	1			

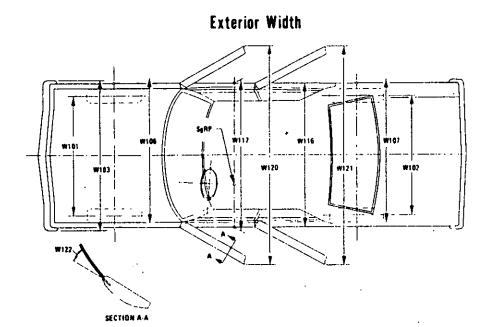
^{*}Also see Engine - General Section for dressed engine mass (weight).

Car Line <u>CAVALIER</u>	<u> </u>	and the state of t	المعمامين المايا
Model Year 1987	Issued 6-86	Revised (•)	

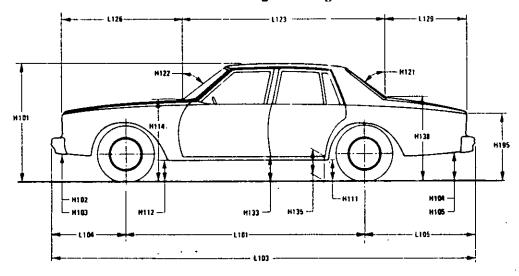
		C	ptional Equi	ipment Differential Mass (weight)*		
Equipment	M	MASS, kg (weight, fb.)		Remarks		
, ,	Front	Rear	Total			
Electronically Tuned AM/	1.0	.2	1.2	All except 'Cavalier' series		
FM Stereo Radio (w/seek	(2.2)	(0.4)	(2.6)			
scan and clock) RPO UM7	 	<u> </u>		'Cavalier' series		
AM/FM Stereo Radio,	.8	.2	1.0	All except 'Caralier' series		
Cassette Player-ETR	(1.8)	(0.4)	(2.2)			
(with seek scan, and			<u>-</u>	<u> </u>		
clock) RPO UM6	2.2	.2	2.4	'Cavalier' series		
	(4.8)	(0.4)	(5.2)			
AM/FM Stereo Radio-ETR	2	0	- 2	All except 'Cavalier' series		
(w/seek scan w/o clock) RPO UK4	(-0.4)	(0)	(-0.4)			
10 0 004	1.0	.2	1.2	'Cavalier' series		
	(2.2)	(0.4)	(2.6)			
AM/FM Stereo Radio,	8	.2	1.0	'RS' and 'Z24' series		
Cassette Player-ETR	(1.8)	(0.4	(2.2)			
(w/seek and scan, clock						
and graphic equalizer)						
RPO UX 1	ļ					
Gage Package (includes	.2	0	.2	'Cavalier' and 'CS' series		
trip odometer	(0.4)	(0)	(0.4)			
RPO U22	 					
AM Radio	1,0	.4	1,4	'Cavalier' series standard on		
RPO U63	(2.2)	(0.9)	(3.1)	balance of models		
Premium Dual Rear	1.4	1.4	2.8	'Cavalier' and 'CS' series with		
Speakers RPO U66	(3,1)	(3,1)	(6.2)	stereo radios only (except UX1)		
			, ,			
Fixed Mast Antenna	6	0 (0)	.6	'Cavalier' series standard on		
RPO_U73	(1.3)	(0)	(1.3)	balance of models		
Coaxial Front and	.6	1.2	1.8	'RS' and 'Z24' series with stereo		
Premium Rear Speakers	(1.3)	(2.7)	(4.0)	radios only (except UX1)		
						
Roof Carrier	2.4	5.0	7.4	Station_wagons		
RPO V55	(5.3)	(11.0)				
'CL' Custom Interior	50.2	12.2	62.4	All except convertible		
RPO 712	110.7	(26.9)				
				<u> </u>		

^{&#}x27;Also see Engine - General Section for dressed engine mass (weight).

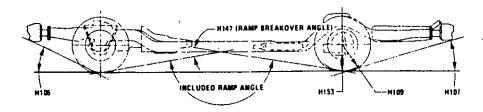
Exterior Car And Body Dimensions - Key Sheet



Exterior Length & Height

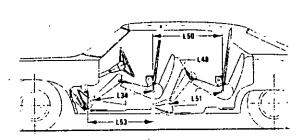


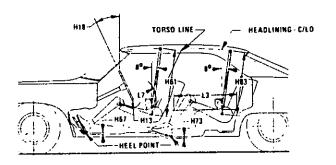
Exterior Ground Clearance

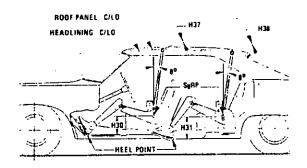


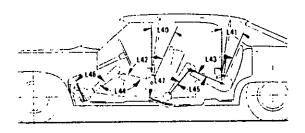
MVMA Specifications Form Passenger Car METRIC (U.S. Customary)

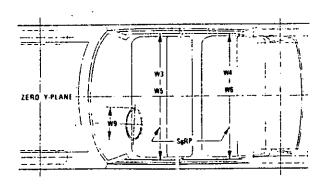
Interior Car And Body Dimensions – Key Sheet

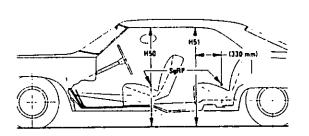








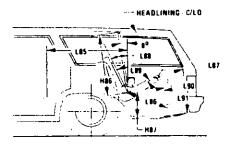


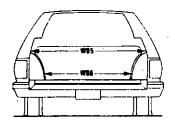


MVMA Specifications Form Passenger Car METRIC (U.S. Customary)

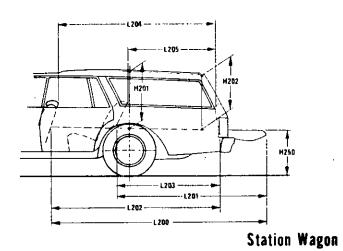
Interior Car And Body Dimensions – Key Sheet

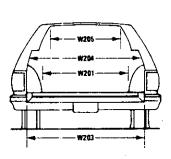
Third Seat

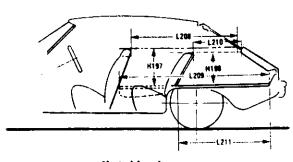




Cargo Space







Hatchback

METRIC (U.S. Customary)

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 pivol 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. "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

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.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- 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 real 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.

cal 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

- 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.
- 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.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and/or grills are integrated
 with the profile, measurement is made at the foremost
 point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body 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.
- 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.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- 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 arc 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 dimension 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.
- H133 BOTTOM OF DOOR CLOSED-FRONT 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.
- 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.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD-TIRE RADIUS-REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

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.
- H103 FRONT BUMPER TO GROUND-CURB MASS (WT.). Measured in the same manner as H102.

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

- 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 arc and 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 arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP 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.

Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark – Number 1 "X" coordinate.

- L54 "X" coordinate. W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at carb weight.
- H163 Height "Z" coordinate to ground: Fiducial Mark Number 2
- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel
- L17 DESIGN H-POINT—FRONT TRAVEL. The dimension measured horizontally between the design H-point—front in the foremost and rearmost seat track positions. (See SAE 11100)
- NORMAL DRIVING AND RIDING SEAT TRACK LEVEL.

 The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100)
- L31 SgRP-FRONT, "X" COORDINATED.

- 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.
- 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.
- L42 HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE—FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE-FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE 1826.
- L53 SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
- W3 SHOULDER ROOM—FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP—front at height between the belt line and 254 mm (10.0 in.) above the SgRP—front, excluding the door assist strap and attaching parts.
- 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 of the SgRP-front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL-FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND-FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP-front "X" plane.
- 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.).
- H67 FLOOR COVERING THICKNESS—UNDEPRESSED— FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- PD1 PASSENGER DISTRIBUTION-FRONT.

Rear Compartment Dimensions

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.

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

- L-41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SqRP-second plus 254mm (10.0 in.)
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND Measured in the same manner as W5.
- 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.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- HS1 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 SqRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. Far of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.)
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimesnion measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-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.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements – head room, shoulder room, hip room, and leg room – for the front and fear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment.

The Trunk Cargo Index is an estimate of the size of the trunk-cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-
- 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.).
- L87 KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same mannere as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as 1.45
- L91 FOOT ANGLE-THIRD. Measured in the same manner as L47
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. from the SgRP-third to the head-lining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SaRP-THIRD TO HEEL POINT.
- PD3 PASSENGER DIRECTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

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-OPÉN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on 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.
- ventional 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 backpanel 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 he 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 to the sheet metal.

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet **Dimensions Definitions**

- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- REAR OPENING WIDTH AT BELT. The minimum dimen-W204 sion measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- REAR OPENING WIDTH ABOVE BELT. The minimum di-W205 mension measured laterally between the limiting interferences of the rear opening above the belt height.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undepressed floor covering.
- CARGO HEIGHT. The dimension measured vertically from H201 the top of the undepressed floor covering to the headlining at the rear wheel "X" coordinate 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:

$$\frac{\text{W4 x H201 x L204}}{1728} = \text{ft}$$

Measured in mm:

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

- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA. Measured in inches:

$$\frac{L506 \times W500 \times H503}{1728} = ft^{3}$$

Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$$

V6 TRUCKS AND MPV'S WITH CLOSED AREA.

Measured in inches: L204 x W500 x H505

$$\frac{1728}{1728} = ft$$

Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$$

- HIDDEN LUGGAGE CAPACITY-REAR OF SECOND V8 SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- STATION WAGON CARGO VOLUME INDEX. V10 Measured in inches:

$$\frac{\text{H201} \times \text{L205} \times \frac{\text{W4} + \text{W201}}{2}}{2} = \text{ft}^3$$

Measured in mm:

$$\frac{\text{H201 x L205 x} \frac{\text{W4 + W201}}{2}}{10^9} = \text{m}^3 \text{(cubic meter)}$$

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).

- 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.
- CARGO LENGTH AT SECOND SEATBACK HEIGHT-L210 HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- CARGO LENGTH AT FLOOR-SECOND HATCHBACK. L211 The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- 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
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seat back to the undepressed floor covering.
- **V**3 HATCHBACK.

Measured in inches:

Measured in mm:

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

- **V**4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor: Measured in inches:

$$\frac{L210 + L211}{2} \times W4 \times H198 = H^{\circ}$$

Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198$$
= m³ (cubic meter)

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

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