# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

**METRIC( U.S. Customary)** 

Passenger Car

1986

Manufacturer		Car Line		
	Chevrolet Motor Division General Motors Corporation	Cavalier		
Mailing Address	Engineering Center	Cavarre	:1	
	General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued July, 1985	Revised September, 1985	

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.

Blank Forms Provided by Technical Affairs Division

Motor Vehicle Manufacturers Association of the United States, Inc.

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#### **NOTE:**

- 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).
- 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.

Model Year\_\_\_

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CAVALIER

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## Car Models

		Car Mode	ls ·	•
Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designate Seating Position (Front/Rear)	
FRONT WHEEL DRIVE	-	MODEL NUMBER	FRONT/RE	AR
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		1JD77	2 3	72.0 (158 <b>.7</b> )
4-Door Notchback Sedan		1JD69	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)
4-Door Notchback Sedan		1JE69	2 3	61.8 (136.2)
4-Door Station Wagon		1JE35	2 3	92.7 (204.4)
2-Door Convertible Coupe		1JE67	2 2	48.2 (106.3)
CAVALIER Z24 2-Door Notchback Coupe		1JF27	2 3	60.0 (132.3)
2-Door Hatchback Coupe		1JF77	2 3	72.0 (158.7)

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

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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.

			ENGINE			E		Drive Ra	tios (:1)
SERIES	Displ.	Carb.	<u> </u>	SAE Ne	t at RPM	h a	TRANSMISSION	Axle ( Overal	
AVAILABILITY	Liters (in <sup>3</sup> )	(Barrels, FI, etc.)	Compr. Ratio	kW (bhp)	Torque N•m (lb.ft.)	u s t S'D	TRANSAXLE	Veh. Base Drive	Veh.
Base - All States	L-4 2.OLiter 121 CID) LQ5		9.0:1	85 @ 4800	110 @ 2400	S	Man 4-Speed 3.53 Low Base (M19) 27,69 Models	3.320 2.69	3.65#* 2.96
							Man 5-Speed 3.73 Low Base (MR3) 35,67,77 Model	3.65 2.96 s	<del>-</del>
							Man 5-Speed 3.73 Low Avail (MR3)	3.83 2.83	
							Auto '125c' Avail (MD9)	3.18 3.18\$	3.43\$* 3.43
Convertible	V6 2.8Lite 173 CID) LB6		8. <b>5</b> :1	120 @ 4800	155 @ 3600		Man 4-Speed 3.31 Low Base (MX6)	3.65 3.28	
and Z24 Models only							Auto '125c' Avail. (MD9)	3.18\$ 3.18	
+ - Electronic % - (2.8 Multi- 0 - Without A/C # - With A/C * - Optional Ax \$ - Axle Ratio	Port FI	)	:	ferent	ial Dr	ive	Ratio		
· · · · · ·									

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Engine Description/Carb. Engine Code

2.0 Liter L-4 (121 C10)	(2.8 Liter V6 (173 CID)
Electronic Fuel Injection	(2.8 Multi-Port FI)
RPO LQ5	RPO LB6

#### **ENGINE - GENERAL**

Type & description (inline,		In line			
flat, location, front, mid, rear, transverse, longitudinal, soho, doho,					
ohv, hemi, wedge, pre-can		Front			
		Transverse, front of engine faces right side of vehicle			
Manufacturer		Chevrolet			
No. of cylinders		4	6		
Bore		89 (3.50)	89 (3.50)		
Stroke		80 (3.15)	76 (2.99)		
Bore spacing (C/L to C/L)		99 (3.90)	111.8 (4.40)		
Cylinder block material & r	nass kg (ibs.)	Cast Iron/32.050 (70.7)	Cast Iron/41.731 (91.9)		
Cylinder block deck height		215.55 (8.49)	224 (8.819)		
Deck clearance (minimum (above or below block)	)	0.15 (.006) below	0.12 (.005) below		
Cylinder head material & r	nass kg (lbs.)	Cast Iron/16.103 (35.50)	Cast Iron/11.227 (24.8)		
Cylinder head volume (cm	3)	Not Applicable			
Head gasket thickness					
(compressed)		1.1 (.043)	0.838 (0.033)		
Minimum combustion chair	nber	1			
total volume (cm³)		59.988 (3.66)@	59.8481 (3.6515)@		
Cyl. no. system	L. Bank	1-2-3-4	2-4-6		
(front to rear)*	R. Bank		1-3-5		
Firing order		1-3-4-2	1-2-3-4-5-6 /2.675 (5.9) Ctr		
Intake manifold material &	mass (kg (weight, lbs.))	Aluminum Cast/2.700 (5.9)	Aluminum Cast/3.810 (8.4) Lwr		
Exhaust manifold material	& mass [kg (weight, fbs.)]	Stainless Steel/4.100 (9.0)	Iron Cast/2.200 (4.9) L.H.		
Recommended fuel (leaded, unleaded, diesel)		Unleaded .	2.948 (6.5) R.H.		
Fuel antiknock index	R + M)				
1 oes anunioch mook	2	87			
Total dressed engine mas	s (wt) dry**	150.9 (332.6) Auto	186.2 (410.6) Auto		
Engine - Pistons		159.5 (351.6) Man	197.1 (434.6) Man		
Material & mass, g					
(weight, oz.) - piston only		Aluminum Alloy, .430 (15.2)	Aluminum Alloy, .467 (16.5)		
Engine – Camsha	ft				
Location		In cylinder block, right side	In block above crankshaft		
Material & mass kg (weig	ht, lbs.}	Cast Iron 3.098 (6.83)	Cast Iron/3.098 (6.83)		
Drive type	Chain / belt	Chain	Chain		
Sino type	Width / pitch	19.3 (0.76)/9.53 (0.38)	19.4 (.764)/9.53 (.375)		

<sup>\*</sup> Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

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

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

<sup>\*\*</sup> Dressed engine mass (weight) includes the following:

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**Engine - Vaive System** 

Hydraulic lifters (std., opt., NA)		Standard	Standard			
	Number intake / exhaust	4/4	6/6			
Valves	Head O.D. intake / exhaust	40.64 (1.60)/35.00 (1.38)	43.64 (1.72/36.20 (1.43)			

## Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]	Cast Steel, .335 (.738)	Cast Steel, .399 (0.880)

## Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]		Nodular Cast Iro	n/13.100(28.88) Nodular	Cast Iron/14.170(31.2)
End thrust taken by bearing (no.)		5	3	
Number of main bea	arings		. 4	
Seal (material, one, two piece	Front		•	
	Poor			<u> </u>

#### Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	435-530 (63-77) @ 1200	345-450 (50-65) @ 1200
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)	3.8 (4.0)

## **Engine - Diesel Information**

Diesel engine	manufacturer	
Glow plug, cu	rrent drain at 0°F	Not
Injector	Туре	Applicable
nózzle	Opening pressure [kPa (psi)]	
Pre-chamber	design	
Fuel in-	Manufacturer	
jection pump	Туре	
Fuel injection	pump drive (belt, chain, gear)	
Supplementa	y vacuum source (type)	
Fuel heater (y	es/no)	
Water separa (std., opt.)	tor, description	
Turbo manufa	cturer	
Oil cooler-type oil to ambient	e (oil to engine coolant; air)	
Oil filter		

### **Engine** – Intake System

Turbo charger - manufacturer	Not	
Super charger - manufacturer	Applicable	
Charge cooler	•	

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Engine	Description/Carb.
Engine	Code

2.0 Liter L4 (121 CID)
Electronic Fuel Injection
RPO LQ5

		Kro LQ3				
M4						
Engine -	- Cooling System					
Coolant reco	overy system (std., opt., n.a.)	Standard				
Coolant fill lo	ocation (rad., bottle)	Bottle, coolant recovery				
Radiator cap	relief valve pressure [kPa (psi)]	103.4 (15)				
Circulation	Type (choke, bypass)	Choke				
thermostat	Starts to open at °C (°F)	91 (195°)				
	Type (centrifugal, other)	Centrifugal, with aluminum die cast body				
	GPM 1000 pump rpm	7.3 @ 1000 pump RPM				
	Number of pumps	One				
Water	Drive (V-belt, other)	V-belt				
pump	Bearing type	Sealed, ball-roller				
	Impeller material					
	Housing material					
By-pass reci	rculation [type (inter,. ext.)]	Internal				
Cooling	With heater-L(qt.)	8.19 (8.6) Auto, 8.29 (8.8) Man				
system capacity	With air condL(qt.)	8.23 (8.7) Auto, 8.33 (8.8) Man				
capacity	Opt. equipment [specify-L(qt.)]	8.37 (8.8) Auto, 8.37 (8.8) Man				
Waterjacket	ts full length of cyl. (yes, no)	Yes				
Water all aro	und cylinder (yes, no)	Yes				
Water jacket	s open at head face (yes, no)					
_	Std., A/C, HD Auto Sto	. Auto A/C Auto HD Auto AC&HD Man Std Man A/C Man HD Man AC&H				
)	Type (cross-flow, etc.)	Cross-flow				
	Construction (fin & tube					
Radiator	mechanical, braze, etc.)					
core '	Material, mass [kg (wgt, lbs.)]	Copper-brass, high efficiency radiator				
	Width 430.0	10000				
	Height 387.5	387.5 387.5 387.5 303.2 303.2 387.5 387.5				
	Thickness 25.0					
	Fins per inch 3.5	* 3.5* 3.5* 3.5* 4.5* 3.5* 3.5* 3.5*				
Radiator end	tank material					
	Std., elec., opt.	Electric				
•	Number of blades & type (flex, solid, material)	Std 4, flex, plastic (opt 5, flex, plastic)				
	Diameter & projected width	Std 291.0 (opt 354.0)				
	Ratio (fan to crankshaft rev.)	Not Applicable				
Fan	Fan cutout type	CM controlled				
, <u> </u>	Drive type (direct, remote)	Direct				
	RPM at idle (elec.)	2200-2400 (constant)				
	Motor rating (wattage) (elec.)	96				
	Motor switch (type & location) (elec.)	Coolant switch, engine cylinder head				
	Switch point (temp., pressure) (elec.)	110°F				

<sup>\* -</sup> Distance between top of fins.

Plastic

Fan shroud (material)

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Engine Description/Carb. Engine Code

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

Engine -	Cooling	System
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Coolantrec	overy system (std., opt., n.a.)	Standard	
Coolant fill location (rad., bottle)		Bottle, coolant recovery	
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15)	
Circulation	Type (choke, bypass)	Choke	
thermostat	Starts to open at °C (°F)	91 (195°)	
	Type (centrifugal, other)	Centrifugal, with aluminum die cast body	
	GPM 1000 pump rpm	•-	
	Number of pumps	One .	
Water	Drive (V-belt, other)	V-belt .	
pump	Bearing type	Sealed, ball-roller	
	Impetler material		
	Housing material		
By-pass rec	irculation [type (inter,. ext.)]	Internal	
Cooling	With heater-L(qt.)	10.71 (11.3) Auto, 10.75 (11.4) Man	
system	With air condL(qt.)	10.67 (11.3) Auto, 10.71 (11.3) Man	
capacity	Opt. equipment [specify-L(qt.)]	10.71 (11.3) Auto, 10.71 (11.3) Man	
Waterjacket	ts full length of cyl. (yes, no)	Yes	
Water all arc	ound cylinder (yes, no)	Yes	
Water jacket	ts 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	
Radiator	Construction (fin & tube mechanical, braze, etc.)		
core	Material, mass [kg (wgt, lbs.)]	Copper-brass, high efficiency radiator	
	Width	599.5	
	Height	360.4	
	Thickness	34.0	
	Fins per inch	4.0* 3.5* 4.0* 4.0*	
Radiator end	d tank material		
	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	
Fan	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	

<sup>\* -</sup> Distance between top of fins.

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**METRIC (U.S. Customary)** 

Engine Description/Carb. Engine Code 2.0 Liter L-4 (121 CID)
Electronic Fuel Injection
RPO LQ5

Fngine _	Fuel Systen	1 /See sunn	lemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)
	e: carburetor, fuel	*	Fuel Injection CCC controlled
	Mfgr.		None
	Choke (type)		None
Carbure- tor	Idle spdrpm	Manual	
	(spec. neutral or drive and propane if used)	Automatic	
Idle A/F mix.	<u> </u>	<u> </u>	Preset - no adjustment provided
	Point of injection	n (no.)	Throttle body
Fuel	Constant, pulse		Pulse
injection	Control (electro		Electronic
	System pressu		68.95-82.74 (10-12)
Intake manife	old heat control (e		
or water then	mostatic or fixed)		Water
Air cleaner	Standard		Replaceable paper element single snorkel
type	Optional		None
Fuel	Type (elec. or r	mech.)	Electric
pump	Location (eng., tank)		Tank
	Pressure range	(kPa (psi)	Not Applicable
Fuel Tan	k		
Capacity [ref	fil L (gallons)]		51.5 (13.6)
Location (de:			Underbody - rear center
Attachment	<del></del>		Underbody strap
Material & M	ass (kg (weight lb	s)l	Steel
	Location & mat		R.H. rear quarter
Filler pipe	Connection to	ank	Solid solder
Fuel line (ma	•		Steel
Fuel hose (m			Rubber
Return line (			Steel
Vapor line (n	<u> </u>		Steel
	Opt., n.a.		Not Available
Extended range	Capacity [L (ga	ilons)]	II .
tank	Location & mat		11
	Attachment		II .
	Opt., n.a.		u u
	Capacity [L (ga	illons)]	ll ll
Auxiliary tank	Location & mat		"
tank	Attachment	<del> </del>	"
	<del></del>	or valve	H
	Selector switch or valve Separate fill		<u> </u>

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<b>Engine</b>	Description/Carb.
Engine	Code

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

Induction typinjection sys	pe: carburetor, fuel stem, etc.		Multi-Port Fuel Injection	
Mfgr.		•	None	
	Choke (type)		None	
Carbure-	Idle spdrpm	Manual		,
or	(spec. neutral			
	or drive and propane if used)	Automatic		
dle A/F mix	<del>, l</del>	L	Preset - no adjustment provided	•
	Point of injectio	n (no.)	Fuel Injectors at inlet ports	
Fuel	Constant, pulse	, flow	Pulse	
njection	Control (electro	nic, mech.)	Electronic	
	System pressu	re [kPa (psi)]	Not Available	
	fold heat control (e: rmostatic or fixed)	khaust	Water	
Air cleaner	Standard		Replaceable paper element single snorkel	
уре	Optional		None	
	Type (elec. or r	nech.)	Electric	
Fuel pump	Location (eng., tank)		Tank	
	Pressure range [kPa (psi)]		Not Applicable	
Fuel Tar	nk			
Capacity [re	fill L (gallons)]		51.5 (13.6)	-
ocation (de	<del></del>		Underbody - rear center	· -
Attachment		<del> </del>	Underbody strap	<u>.</u>
Material & N	fass [kg (weight lbs	5)]	Steel	- "
Filler	Location & mate	erial	R.H. rear quarter	
pipe	Connection to t	ank	Solid solder	
uel line (m	aterial)		Steel	
uel hose (r	naterial)		Rubber	
Return line (	(material)		Steel	· · ·
Vapor line (material)			Steel	-
/apor line (r	T		Not Available	
<u> ,</u>	Opt., n.a.			
xtended	Opt., n.a. Capacity [L (ga	llons)]		
xtended ange	·- · · · · · · · · · · · · · · · · · ·	<del></del>	11	
xtended ange	Capacity [L (ga	<del></del>		
xtended ange	Capacity [L (ga Location & mate	<del></del>	41	
xtended ange	Capacity [L (ga Location & mate Attachment	erial	ti ti	•
Extended ange ank	Capacity [L (ga Location & mate Attachment Opt., n.a.	erial	11 11	
Extended range ank	Capacity [L (ga Location & mate Attachment Opt., n.a. Capacity [L (ga	erial	11 U U U U U U U U U U U U U U U U U U	
Vapor line (i Extended range lank	Capacity [L (ga Location & mate Attachment Opt., n.a. Capacity [L (ga Location & mate	erial (lons)] erial		

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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 LQ5 RPO LB6

#### **Vehicle Emission Control**

	Type (air in modification	jection, engine ns, other)	CCC control with fuel	injection
		Pump or pulse	None	None
	İ	Driven by		None ·
	Air Injection	Air distribution (head, manifold, etc.)		None
		Point of entry		None
xhaust	Exhaust	Type (controlled flow, open orifice, other)	Controlled flow	Not available
mission ontrol	Gas Recircula-	Exhaust source	Exhaust manifold	Not available
Ziniioi	tion	Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet manifold	Not available
		Туре	Single bed, oxidizing &	reducing
		Number of	One	
	Catalytic Converter	Location(s)	Mounted to center underbody	
		Volume [L (in <sup>3</sup> )]	2.78 (170)	
		Substrate type	Monolith	
	Type (ventilates to atmosphere, induction system, other)		Induction system	
Crankcase mission	Energy source (manifold vacuum, carburetor, other)		Manifold vacuum	
Control	Discharges (to intake manifold, other)		Intake manifold	
	Air inlet (bre	eather cap, other)	Air cleaner	
vapora-	Vapor vente		Canister	
ve Imission	canister, ot			
Control	Vapor stora	ge provision	Canister	
lectronic	Closed loop	(yes/no)	Yes	
ystem	Open loop (	(yes/no)	No	

#### Engine - Exhaust System

Type (single, single with cross-over, dual, other)  Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]  Resonator no. & type		Single (with dual tailpipes 2	-doors only)
		One, reverse flow	
		None	
	Branch o.d., wall thickness	<b>4-</b>	
Exhaust pipe	Main o.d., wall thickness	44.5 x 0.94 (1.75 x .037)*	$50.8 \times 0.94 (2.0 \times .037)$
	Material & Mass [kg (weight lbs)]	*	
nter-	o.d. & wall thickness	50.8 x 1.09 (2.0 x .043)	
nediate pipe	Material & Mass (kg (weight lbs))	Aluminum coated steel	
Tail pipe	o.d. & wall thickness	50.8 x 1.09 (2.0 x .043	$50.8 \times 1.09 (2.0 \times .043)$
	Material & Mass (kg (weight lbs))	Aluminum coated steel	

 <sup>+ -</sup> Laminated tubing - steel inner, stainless steel outer.

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**METRIC (U.S. Customary)** 

Engine	Description/Carb.
Engine	Code

2.0 Liter L4 (121 CID) Electronic Fuel Injection RPO LQ5

## 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 forward speeds			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)		All forwa	ard gears	
Shift lever lo	cation	-	Floor	
				2.8L (5.9 pts.), 5-Speed 2.55L (5.36 pts.)
Lubricant	Type recommended			5-Speed SAE 5W-30 Engine Oil SF, SF/CC or SF/CD
	SAE vis-	Summer		5-Speed SAE 5W-30 Engine Oil SF. SF/CC or SF/CD
	cosity	Winter		5-Speed SAE 5W-30 Engine Oil SF. SF/CC or SF/CD
	number	Extreme cold	4-Speed &	• • • • • • • • • • • • • • • • • • • •

## **Clutch (Manual Transmission)**

Make, type, engagement (describe) – (hydraulic, cable, rod)		Manual 4-Speed	Manual 5-Speed		
(riyoraulic,	Cable, roo)	Borg & Beck, dry disc	Isuzu, dry disc		
Assist (yes	s, no / percent)				
Type press	sure plate springs	Diaphragm	Diaphragm		
Total spring	g load [N (lb.)]	5516 (1240)	4609 (1036)		
No. of cluto	ch driven discs	One	One One		
	Material	Molded type asbestos	Not Available		
	Manufacturer	Borg & Beck	Isuzu		
	Part number	14079600	94253238		
	Rivets/plate	36	16		
Clutch	Rivet size	.143 x .213	Not Available		
facing	Outside & inside dia.	203.2 x 152.4 (8.0 x 6.0)	215.0 x 154.0 (8.46 x 6.06)		
	Total eff. area [cm²(in.²)]	142 (22.0)	176.6 (27.37)		
	Thickness	6.86-7.37 (.270290)	7.8 (.307)		
	Engagement cushion	Driven plate wave	Not Available -		
	method	spoke springs			
Release Type & method		Ball thrust -	Not Available		
	of lubrication	prepacked and sealed			
Torsional	Method: springs,	Coil springs and	Not Available		
damping	friction material	metal-to-metal friction	-		

Car Line	<u>CAVALIER</u>					
Model Year_	1986	ssued	7-85	_ Revise	ed (•)	

**METRIC (U.S. Customary)** 

Engine	Description/Carb.
Engine	Code

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

## Transmissions/Transaxle

Not Available	
Standard	
Not Available	
Not Available	
Optional	
Not Available	
	Standard Not Available Not Available Optional

## **Manual Transmission/Transaxle**

Number of fo	orward speeds	:	4
	In first		3.31
	In second		1.95
	In third		1.24
Transmis-	In fourth		0.90
sion ratios	In fifth		
	In overdrive		
	In reverse		3.42
Synchronous	s meshing (sp	ecify gears)	All forward gears
Shift lever lo	cation		Floor
	Capacity (L	(pt.)]	2.8L (5.9 pts.)
Lubricant	Type recommended		SAE 5W-30 Engine Oil SE, SE/CC or SE/CD
	SAE vis-	Summer	SAE 5W-30 Engine Oil SF, SF/CC or SF/CD SAE 5W-30 Engine Oil SF, SF/CC or SF/CD
	cosity	Winter	н
	number	Extreme cold	

## **Clutch (Manual Transmission)**

Make, type, (hydraulic, d	engagement (describe) cable, rod)	Borg & Beck, dry single plate	
Assist (yes,	no / percent)		
Type pressi	ure plate springs	Diaphragm	
Total spring	load [N (lb.)]	6227 (1400)	
No. of clutc	h driven discs	One	
	Material	Woven molded asbestos	
	Manufacturer	Borg & Beck	
	Part number	14085576	
	Rivets/plate	32	
Clutch	Rivet size	3.6 x 5.4 (.143 x .213)	
facing	Outside & inside dia.	232 x 155 (9,12 x 6,12)	
	Total eff. area [cm²(in.²)]	232 (35.9)	
	Thickness	7.49-8.00 (.295-,315)	
	Engagement cushion method	Driven plate wave spoke springs	
Release bearing	Type & method of lubrication	Ball thrust - prepacked and sealed	
Torsional damping	Method: springs, friction material	Coil springs & metal-to-metal friction	

Car Line	CAVALIER				
Model Year	1986	Issued	7-85	Revised (•)	 -

**METRIC (U.S. Customary)** 

Engine	Description/Carb.
Engine	Code

2.0 Liter L-4 (121 CID) Electronic Fuel Injection RPO LQ5	2.8 Liter V6 (173 CID) 2.8 Multi-Port FI RPO LB6
---	--

#### **Automatic Transmission/Transaxle**

Trade name	)	3-Speed Automatic				
Type and sp	pecial features (describe)	Torque converter with cluto	th 1250			
Selector Location		Floor				
	Ltr./No. designation	P-R-N-D-2-1				
	R	2.07				
Gear	D	1.00*				
ratios	2	1.60				
	1	2.84				
	Overdrive	Not Applicable				
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. overdri	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 (si external, air,	itd., opt., NA, internal, , liquid)	Standard, integral part of a converter clutch engage	radiator			

#### **Axle or Front Wheel Drive Unit**

Type (front, rear)			Front	Front		
Description			Front differential with helical gears and tapered roller bearings			
Limited slip	differential (ty	pe)	Not Available			
Drive pinion	offset		Not Available			
Drive pinion	(type)		Not Available			
No. of differ	No. of differential pinions		2			
Pinion / diffe	erential adjusti	ment (shim, other)	None			
Pinion / diffe	erential bearin	g adjustment (shim, o	ther) Shim	-		
Driving whe	el bearing (typ	е)	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 Extreme cold	Transmission lub. Transmission lub.	•		

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

Axle ratio (or	overall top gear ratio)	3.18	3.32	3,43	3,65	3.83
No. of	Pinion or drive ar.	33	25	33	23	
teeth	Ring gear or gear driven gr.	37	83	37	84	· ·
Ring gear o.c	or driven gr. o.d.	195.2				
Transaxle	Transfer gear ratio					
	Final drive ratio					

Car Line <u>CAVALIER</u>

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**METRIC (U.S. Customary)** 

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_LQ5	RPO LB6

#### Axle Shafts - Front Wheel Drive

Number use	ed		Two
Type (straig	ht, solid bar,	Left	Straight solid bar
tubular, etc.)	)	Right	Straight solid bar (a)
-	Manual transm	ission Left	23.91 x 355.40 (Base), 27.05 x 359.70 (Heavy Duty) (b) *
Outer diam. x		Right	23.91 x 698.40 (Base), 27.05 x 714.70 (Heavy Duty) (b)**
length* x wall	Automatic tran	smission Left	23.91 x 346.40 23.56 X 311 (b)
hick-		Right	23.91 x 398.40 23.56 X 364.3 (b)
ness	Optional transi	mission Left	None
		Right	None
	Туре		None
Slip	Number of tee		Hone
yoke	Number of tee	ın	None
	Spline o.d.		
	Spinic G.G.		None
	Make and mfg	no Inner	Saginaw
		Outer	Saginaw
	Number used		Two on each drive shaft
	Type, size, plu	nge Inner	TRI-POT (c) TRI-POT (d)
		Outer	Rzeppa - fixed
Universal	Attach (u-bolt,	clamp, etc.)	Splined
joints		Type (plain, anti-friction)	Anti-fraction
	Bearing	Lubrication	
		(fitting, prepack)	Prepacked
Drive taken arms or spri	through (torque tu ngs)	be,	Wishbone lower control arm: upper MacPherson strut
Torque take arms or spri	n through (torque ngs)	tube,	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

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 mm
 Manual, right(H.D.)=66.0 mm
 Automatic, left(Base)=61.0 mm
 Automatic, right(Base)=61.0mm

CAVALIER Model Year 1986 Issued 7-85 \_ Revised (●)

Body Type Engine Dis	e And/Or splacement	NOTCHBACK COUPE	HATCHBACK COUPE	CONVERTIBLE COUPE	NOTCHBACK SEDANS	LIFTGATE WAGONS	
Suspens	sion – General					•	
Car	Std:/opt./n.a.	Not Availa	ble		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
eveling	Type (air, hyd., etc.)	11	<del>= : =</del>			· · · · · · · · · · · · · · · · · · ·	
-	Manual/auto. controlled	()				•	
Provision fo	or brake dip control	Front susp	ension geom	etry		,	
rovision fo	or accl. squat control		nsion geome				
Provisions fo	or car jacking	Body picku	p at rocker	panels			
Shock	Туре			ont; double a	cting hydrau	ılic - rear	
sbsorber	Make	Delco				· · · · · · · · · · · · · · · · · · ·	
front & ear)	Piston diameter	32.0 (1.26	) Front. 25	.0 (.98) Rear	<u> </u>		
	Rod diameter			5 (.53) Rear			
Suspens	sion – Front					1	
·		MacPherson	with coil	springs, stam	ped lower co	ontrol	
Type and de	escription			steering knu		<del>-</del> •	
rive and to	orque taken through						
ravel	Full jounce	89.0 mm (3	.5 in)				
ravei	Full rebound	84.0 mm (3					
	Type (coil, leaf, other) & material						
	Insulators (type & material)	Coil, stee					
Spring	Size (coil design height & i.d., bar length x dia.)	406.6 (16.		(5.47 x 2932			
	Spring rate [N/mm (lb./in.)] 16.0 (91.0) Base, 24.0 (137.0) F40 & F41, 20.0 (114.3) L						
	Rate at wheel [N/mm (lb./in.)]	17.2 (98.0	<u>) Base, 19.</u>	<u>9 (114.0) F40</u>	8 F41, 16.6	5 (94.9) LB6	
Stabilizer	Type (link, linkless, frameless)	Link					
	Material & bar diameter	Steel, 24.0 (.94), 30.0 (1.18) w/215 Tires   28.0 (1.1)					
Suspens	sion – Rear						
ype and de	escription			mped control	arms and ope	en .	
•			<u>ansverse be</u>			-	
rive and to	orque taken through		<u>ansverse_be</u>	am		<del> </del>	
ravel	Full jounce	111.0 (4.3	<del>- · • · · · · · · · · · · · · · · · · · </del>	<del></del>			
	Full rebound	91.0 (3.58) Progressive rate coil. HR steel					
	Type (coil, leaf, other) & material	<u> </u>	<u>e rate coil</u>	, HK STEET		.,,	
	Size (length x width, coil design height & i.d., bar length & dia.)	290 (11.42	) x 105 (4.	13) x 2626 (1	103.4) x 13.6	5 (.54)	
Sorina	į.	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(a					
pring	Spring rate [N/mm (lb./in )]	[ CO( 10 110 a2					
Spring	Spring rate [N/mm (lb./in )] Rate at wheel [N/mm (lb./in.)]		se,F40&F41-	<u>16.7(95)</u> Sedan	<u> </u>	(102)Base Wag	
<b>Spring</b>		14.6(83)Ba	se,F40&F41- op & bottom		is&Cpes 17.9		
Spring	Rate at wheel [N/mm (lb./in.)] Insulators (type & material)	14.6(83)Ba	op & bottom		is&Cpes 17.9		
Spring	Rate at wheel [N/mm (lb./in.)] Insulators (type & material)	14.6(83)Ba Rubber - t	op & bottom		is&Cpes 17.9(		
Spring .	Rate at wheel [N/mm (lb./in.)] Insulators (type & material)  No. of leaves	14.6(83)Ba Rubber - t Not Applic	op & bottom able unction per	formance by a	axle beam	(102)Base Wag	
	Rate at wheel [N/mm (lb./in.)] Insulators (type & material)  If No. of leaves leaf Shackle (comp. or tens.)	14.6(83)Ba Rubber - t Not Applic	op & bottom able unction per		axle beam	(102)Base Wag	
tabilizer	Rate at wheel [N/mm (lb./in.)] Insulators (type & material)  If No. of leaves Shackle (comp. or tens.)  Type (link, linkless, frameless) Material & bar diameter	14.6(83)Ba Rubber - t Not Applic " Linkless f Steel, 13m	op & bottom able unction per m (.51) w/V	formance by a 6, 15mm (.59) n: 30 (1.18)	axle beam w/F41-w/of	(102)Base Wag	
	Rate at wheel [N/mm (lb./in.)] Insulators (type & material)  If No. of leaves Shackle (comp. or tens.)  Type (link, linkless, frameless) Material & bar diameter	14.6(83)Ba Rubber - t Not Applic " Linkless f Steel, 13m	op & bottom able unction per m (.51) w/V beam desig	formance by a 6, 15mm (.59) n; 30 (1.18) PC1. (**)	axle beam	(102)Base Wag	

**CAVALIER** Model Year \_\_1986\_ \_ Issued \_ 7-85 Revised (\*)

**METRIC (U.S. Customary)** 

Body Type And/Or Engine Displacement

NOTCHBACK HATO	CHBACK NOTCHBACK SEDANS		LIFTGATE WAGONS
00012   0001	E SEDANS	_ COUPE	WAGUNS

Brakes -	Servi	ce			
Description		-			Single caliper disc front, duo-servo drum rear
Broke time			Front (disc or dru	m)	Disc
Brake type (std., opt., n.a.) Rear (disc or drum)			<del></del>	<u> </u>	Drum
Self-adjustin	g (std., o	pt., n.a.)	(0.00 (0.00 0.00 0.00 0.00 0.00 0.00 0.	···/	Standard
Special valving	Туре	(proportion,	delay, metering, ot	her)	Proportioning. Diagonal split circuit.
Power brake	(std., op	t., n.a.)			Standard
Booster type	(remote	, integral, v	ac., hyd., etc.)		Single or tandem vacuum depending on mass
Vacuum sou	rce (inlin	e, pump, et	c.)		Inline (intake manifold)
Vacuum res	ervoir (vo	lume in.3)		_	None
Vacuum pun if other so st	np-type ( ate)	elec, gear d	lriven, belt driven,		n
Anti-skid dev	rice type	(std., opt., r	n.a) (F/R)		Not Available
Effective are	a [cm²(in	ı.²)]'			309 (47.9)
Gross lining	area [cm	<sup>2</sup> (in. <sup>2</sup> )}**(F/	R)		381 (59.1)
Swept area	[cm²(in.²)	]****(F/R)		•	1624 (251.8)
	Outer	working dia	meter	F/R	247 (9.72) /
Rotor	Inner	working diameter F/R		F/R	/
	Thick	ness		F/R	22.4 (0.88) /
	Mater	ial & type (v	rented/solid)	F/R	Cast iron, vented /
Drum	Diame	eter & width		F/R	/ 200 x 45 (7.87 x 1.77)
	Туре	and materia	11	F/R	/ Cast iron, non-finned
Wheel cyling	ler bore				57 (2.24) / 16 (.63) All exc. wagon, 17.5 (.69) wagon
Master cyline	der	Bore/stro	ke	F/R	22 (.866) / 31.8 (1.25)
Pedal arc rat	tio				3.9:1
		N(100 lb.) p	edal load [kPa (psi)	<del></del>	Not Available
Lining cleara	ınce			F/R	Self adjusting
		_	r riveted (rivets/seg	.)	Riveted (6). In-board, outboard-integrally molded
•	ľ	Rivet size			7.92 x 5.33 (0.312 x 0.21)
		Manufact			Delco Moraine
	Front	Lining co	de'''' ****		122FE
	Wileel	Material	<del>.</del>		Semi-metallic
		<u>_</u> _	rimary or out-board	<del></del>	116.7 x 54.7 x 10.92 (4.594 x 2.157 x .430)
			econdary or in-boar	<u> </u>	125 x 59 x 10.2 (4.92 x 2.32 x 0.4)
Brake lining	ļ		kness (no lining)		4.72 IB, 3.14 OB (.186 IB, 0.123 OB)
······································			r riveted (rivets/seg	.)	Riveted. (8)
	Rear wheel	Manufact			Inland Division
			de**** ****		235 FE
		Material			Organic
		— <del>  [</del>	rimary or out-board		167.7 x 43.9 x 3.8 (6.60 x 1.73 x .15)
			econdary or in-boar	a .	167.7 x 43.9 x 4.8 (6.60 x 1.73 x .19)
	L	Shoe thic	kness (no lining)		2.75 (.11)

<sup>\*</sup>Excludes rivet holes,grooves, chamfers, etc.

<sup>&</sup>quot;Includes rivet holes, grooves, chamfers, etc.

<sup>\*\*\*</sup>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.)

<sup>\*\*\*\*</sup>Size for drum brakes includes length x width x thickness.

<sup>\*\*\*\*\*</sup>Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

 Car Line
 \_\_\_\_CAVALTER

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**METRIC (U.S. Customary)** 

Body Type And/Or Engine Displacement			Notchback Coupe	Hatchback Coupe	Convertible Coupe	Notchback Sedans	Liftback Wagons	
Tires And	Wheels (Sta	ndard)	IJC,		1JE00	1JF00		
	Size (load range,	ply)	P175/80R-	13 BW	P195/70R-13BW	P215/60	R14 BW	
	Type (bias, radial	<del></del>	Steel Bell	ted Radial		<u> </u>		
Fires	Inflation pres- sure (cold) for recommended	Front [kPa (psi)]	240 (35)			-		
	max. vehicle load	Rear [kPa (psi)]	240 (35) 540					
	Rev./mile-at 70 k	(m/n (45 mph)	Steel					
	Type & material				<u> </u>	114 6		
	Rim (size & flang	e type)	13x5.5			14 x 6		
Vheels	Wheel offset	1 = "	49.0 (1.93	<u> </u>				
İ		Type (bolt or stud)	Stud	141		<del></del>	*	
	Attachment	Circle diameter	100.0 (3.9	<i>!</i>	D (			
		Number & size	5-M12 x 1.	.5 - 6H, TH	D. (metric)			
pare	Tire and wheel (s other describe)	ame, if	T115/70D-	14, wheel d	ia. 14-width x	4. Inflati	on 415 (60)	
	Storage position (describe)	& location	Flat under	rear load	floor	· · · · · · · · · · · · · · · · · · ·		
ires And	Wheels (Opt	tional)	lJC,			1JE67,		
lize (load ran	ge, ply)		P175/80R-13 W.S. P215/60R14 WL					
ype (bias, ra	dial, etc.)		Steel Beli	ted Radial	•			
/heel (type &	material)		Steel Not Available				ble	
lim (size, flar	ge type and offset)	)	13 x 5.5			ii ii		
ize (load ran	ge, ply)	(+)		13 BW, WS,	WL	WL @		
ype (bias, ra	dial, etc.)		Steel Belt	ted Radial			_	
Vheel (type &	material)		Steel					
lim (size, flan	ige type and offset)	)	13 x 5.5					
ize (load ran	ge, ply)							
ype (bias, ra	dial, etc.)							
Vheel (type &	material)		Aluminum					
lim (size, flar	ige type and offset)	)	13 x 5.5			14 x 6.0		
ize (load ran	ge, ply)							
ype (bias, ra	dial, etc.)							
Vheel (type &	material)							
lim (size, flar	ige type and offset)	)						
Spare tire and	wheel		T125/70D-	14, wheel d	ia. 14-width x	4. inflate	s 415 (60)	
road tire or soptional spa	tion is different than wheel, describe re tire and/or whee torage position		Flat under	rear load	floor.			
Brakes –				<del>ired with s</del> lable on lJ	<del>port suspensio</del> EOO	n, RPO <b>F41.</b>		
ype of contro	)l		Grip hand	le				
Location of control				e between f	ront seats		1	
Operates on				ice brakes		·····		
	Type (internal or	external)	Neur 367 V	.cc brakes				
f separate	Drum diameter			··				
rom service		<del>  </del>	<del></del>					
rakes	Lining size (lengt) width x thickness							

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Car Line	CAVALIER					
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**METRIC (U.S. Customary)** 

Body Type And/Or Engine Displacement

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

Steering	)			
Manual (std.	, opt., n.a.)			Standard (1JC, 1JD00)
Power (std.,	opt., n.a.)			Standard (IJE, 1JF00, Optional IJC, IJD00, Required w/V-6 eng
Adjustable steering whe		Type and des	cription	Tilt
(tilt, swing, o	ther)	(Std., opt., n.:	a.)	Optional
Wheel diame (W9) SAE J1		Manual		@363.5 (14.3 in.) 1JD00, 368mm (14.5 in.) (1JE, 1JF00)
(Wa) SAES	100	Power		0363.5 (14.3 in.) 1JD00. 368mm (14.5 in.) (1JE, 1JF00)
	Outside	Wall to wall (i.	& 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 curb (	l. & r.)	u
Scrub Radiu	ıs*			h
		Туре		Rack and pinion w/center take-off tie rods - integral
	Gear	Make	t	Saginaw Steering Gear
Manual		Ratios	Gear	22.0:1
		L	Overall	Not Available
		turns (stop to s		4.04
		xial, linkage, et	c.)	Rack and pinion w/center take-off tie rods - integral
	Make	Make		Saginaw Steering Gear
Power		Туре		Rack and pinion w/center take-off tie rods - integral
, 00.	Gear	Ratios	Gear	16.0:1 with F41 - 14.0:1
			Overall	Not Available
	Pump (drive)			Belt off crankshaft pulley
	<del> </del>	I tums (stop to s	top)	2.88
	Туре		-	Center take-off tie rods, rack and pinion
Linkage	Location of wheels	(front or rear s, other)		
				Rear
	<del></del>	one or two)		TWO
	Inclination	n at camber (de	g.)	13.5°
Steering axis	Bearings	Upper		Ball bearing
u	(type)	Lower		Ball joint
	<u> </u>	Thrust		Not Available
Steering spi	ndle & joint typ	1	<del></del>	
Manage	Diameter	Inner bearing		<u> </u>
Wheel spindle	<u> </u>	Outer bearing	9	
	Thread (s			M20 x 1.5
	Bearing (1	type)		Integral double row ball, permanently lubricated

<sup>\*</sup>The horizontal distance in the front elevation between wheel segtedipe and kingpin (ball joint) exist at ground.

Vert. 362mm (14.25 in)

Horiz. 374mm (14.7 in)

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 Car Line
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**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.)]	.06° toe-out +/10°	
ront	Service	Caster	Not adjustable	
rheel at urb mass	reset*	Camber	+.85° +/65°	
vt.)		Toe-in	.06° toe-out +/10°	-
	Periodic	Caster	Not adjustable	
	M.V. in- spection	Camber		
	spection	Toe-in .		•
	Service	Camber (deg.)	Not Applicable	· · ·
ear	checking	Toe-in [outside track-mm (in.)]	10	
wheel at curb mass (wt.)	Service	Camber	"	
	reset*	Toe-in		
	Periodic M.V. in-	Camber	B .	
	spection	Toe-in	1)	,

<sup>\*</sup> Indicates pre-set, adjustable, trend set or other.

Electrical	- Instruments and Equipment	IJC, IJD, IJEOO	1JF00	
Speed-	Туре	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	Not Available	Not Available	
Temperature	Туре	Tell-Tale Warning Light	Gauge	
indicator	Warning device	Not Available	Not Available	
Oil pressure	Туре	Tell-Tale Warning Light	Gauge	
indicator	Warning device	Not Available	Not Available	
Fuel indicator	Туре	Electric gauge with pointer		
	Warning device	Not Available	<del></del>	
· · · · · ·	Type (standard)	Electric 2-speed		
Wind-	Type (optional)	Intermittent windshield wiper	system	
shield wiper	Blade length	430 (16.0)		
ĺ	Swept area [cm²(in.²)]	Coupes 4900 (759.7), sedan &	wagon 4937 (765.4)	
Wind-	Type (standard)	Sliding switch on RH instrume	nt cluster pod (1JE,1JF00)*	
shield washer	Type (optional)	Not Available		
11 431101	Fluid level indicator	ii		
Horn	Туре	Vibrator		
-	Number used	0ne		
Other		Parking brake warning light & brake failure warning ligh Restraint system warning light and buzzer, Odometer flag for converter service, "choke" malfunction tell-tale warning light - (California only) 'Service Engine Soon' light.		

<sup>\*</sup>Paddle on turn signal lever (1JC, 1JD00)

 Car Line
 CAVALIER

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**METRIC (U.S. Customary)** 

Engine	Description/Carb.
Engine	

2.0 Liter L4 (121 CID) Electronic Fuel Injection RPO LQ5	2.8 Liter V 6 (173 CID) (2.8 Multi-Port FI) RPO LB6
--	---

Electrical - Supply System

	Make	Delco Remy
	Model, std., (opt.)	70-525, 75-630 H.D.
	Voltage	12 Volt
Battery	Amps at 0°F cold crank	525, 630 H.D.
•	Minutes-reserve capacity	90 minutes base, 90 minutes H.D.
	Amp/hrs 20 hr. rate	**
	Location	
		Engine compartment
Senerator	Type and rating	Diode rectified, 42 amps
or 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	·- ·- ·	
Motor drive	Engagement type	Selenoid		
	Pinion engages from (front, rear)	Front		

**Electrical – Ignition System** 

Туре	Electronic (std., opt., n.a.)			
	Other (spe	icify)	High energy ignition syst	tem (H.E.T.)
	Make		Delco Remy	
Coil	Model		1115461	
	Current	Engine stopped – A	0	·
		Engine idling - A	5.5 Max	
	Make		AC spark plug	70 to
	Model		R42CTS	<del> </del>
Spark Ilug	Thread (mm)		M14x1.25	
lug	Tightening torque [N-m (lb, ft)]		9-20 (7-15)	
	Gap		.9 (.035)	1.14 (.045)
	Number per cylinder		One One	LAIT (AVIV)
Distributor	Make		Delco Remy	
	Model		1103579	

<u>Electrical – Suppression</u>

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.

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Body Type		NOTCHBACK COUPES	CONVERTIBLE COUPE	HATCHBACK COUPES	<u>e</u>		
Body							
Structure				construction includi fenders and hood	ng front end st	tructure	
•			·			-	
Bumper system front - rear			Bumper fascias are attached to steel impact bar and dual enersorbers for collision energy absorption. (Meets GM 5 mph impact standard). Bumper guards optional on all models except Z24 series.				
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 - M	iscellaneous	Information	body.				
	(lacquer, enamel, o		Acrylic lacquer or water base acrylic enamel				
	Hinge location (fr	ont, rear)	Rear				
Hood	Type (counterbal	lance, prop)	Prop rod				
<del></del>	Release control (	internal, external)	Internal				
Trunk	Type (counterbal	lance, other)	Torsion rods				
lid ————	Internal release o	control (elec., mech., n.a.)	Electrical-Opti	onal			
Hatch-	Type (counterbal	<del></del>			(A)	•	
back lid	Internal release o	control (elec., mech., n.a.)			Electrical-Or	)t	
						· · · · · · · · · · · · · · · · · · ·	
		Front	None			<del>,</del>	
friction, pivot,	control (crank, power)	Rear	II II				
		Front	Rucket %0 nolv	urethane padding		<u></u>	
Seat cushion type (e.g., 60/40, bucket, bench,		Bench @, polyur					
wire, foam et		3rd seat		contains padding			
		Front		t w/E-Z entry featu	re 0 nolvureth	ane padding	
	Seat back type (e.g., 60/40, bucket, bench, wire fnametc.)  Rear		Rench @ /full	folding on hatchbac	ke-enlit ont la	i <u>ane padu</u> my	
				TOTALINA OIL HALLIDAL	へっきつひょしん ひひしょうし	137111111111	
		3rd seat		<u> </u>			

<sup>(</sup>A) - Two-telescoping gas struts. 0 - Up-level design on 1JE67.

<sup>% -</sup> Low contour design ('Cavalier' & 'CS' series)
High contour design ('RS' & 'Z24' series)

METRIC (U.S. Customary)

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**NOTCHBACK** SEDANS

LIFTGATE STATION WAGONS

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). Bumper guards optional on all models except Z24 series.
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.

Type of fini	sh (lacquer, enamel,	other)	Acrylic lacquer or water base acrylic enamel
	Hinge location (f	front, rear)	Rear
Hood	Type (counterba	alance, prop)	Prop rod
	Release control	l (internal, external)	Internal
Trunk	Type (counterba	alance, other)	Torsion rods (A)
lid	Internal release	control (elec., mech., n.a.)	Electrical-Optional
Hatch-	Type (counterba	alance, other)	
back lid	Internal release	control (elec., mech., n.a.)	
	ow control (crank,	Front	None
friction, piv	ot, power)	Rear	None
Seat cushic	on type	Front	Bucket %, polyurethane padding
(e.g., 60/40	), búcket, bench,	Rear	Bench polyurethane padding
wire, foam	HC.)	3rd seat	None
Seat back t	huna	Front	Reclining bucket, polyurethane padding
(e.g., 60/40, bucket, bench,		Rear	Bench (full folding on station wagons-split opt)poly. padding
wire, foam			None None

<sup>(</sup>A) - Lift gate, two-telescoping gas struts.
% - Low contour design ('Cavalier' & 'CS' series)
High contour design ('RS' & 'Z24' series)

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Body Type		•	NOTCHBACK COUPE	CONVERTIBLE	HATCHBACK COUPE
Restrali	nt System			<u> </u>	<u>:</u>
Active	Standard/optional	_	Standard		:
restraint system	Type and description	า	Front-Seat belt and should Rear-Seat belt system (3-	der belt system with a	retractor e)(2-convertible)
	Location		Rear-Seat belt system (3- Front-Belt and shoulder belt in lower lock pillar.	pelt attached to lock per per per per per per per per per per	oillar with inerti
	Standard/optional		Not Available	belts atta	ached to underbody
Passive seat belts	Power/manual		11		
	2 or 3 point		11		
	Knee bar/lap belt		U		
Frame					
Type and de unitized fran	escription (separate fram ne, partially-unitized fran	e, ne)	Body-frame integral with	bolt-on power train cr	radle
Glass		SAE Ref. No.			
Windshield s surface area	glass exposed a [cm²(in.²)]	S1	7487 (1160.5)	· · · · · ·	
Side glass exposed surface area [cm²(in.²)] - total 2-sides		S2	10912 (1691.4)		11478 (1779.1
Backlight glass exposed S3 surface area [cm²(in.²)]		S3	5154 (798.9)	3393 (525.9)	8685 (1346.2)
Total glass exposed surface S4 area [cm²(in.²)]		S4	23551 (3650.8)	21792 (337.8)	27650 (4285 <b>.</b> 8
Windshield glass (type)			Curved - Laminated Pl	ate	· .
Side glass (type)			Curved - Tempered Pla	te	ŧ
Backlight glass (type)			Curved - Tempered Pla	te	i

Car Line	<u>CAVALIER</u>					
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MEIR	c (U.S. Custon	iary)		·			
Body Typ	•		NOTCHBACK COUPE	LIFTGATE STATION WAGON			
Restrai	nt System						
Active	Standard/optional		Standard				
restraint system	Type and description	on .	Front-Seat belt and shoulder belt system with retractor(2) Rear-Seat belt system (3)				
	Location		Front-Belt and shoulder be reel in lower lock pillar.	elt attached to lock pillar with inertia Frt buckle attached to underbody. Rr			
	Standard/optional		Not Available	belts attached to underbody.			
Passive seat belts	Power/manual		u .				
	2 or 3 point		n				
·	Knee bar/lap belt		0				
Frame							
Type and d unitized fra	lescription (separate fran me, partially-unitized fra	ne, me)	Body-frame integral with b	oolt-on power train cradle			
Glass		SAE Ref. No.					
Windshield surface are	glass exposed ea [cm²(in.²)]	S1	7487 (1160.5)				
Side glass of area [cm²(i	exposed surface in.2)] - total 2-sides	S2	11532 (1787.5)	16954 (2627.9)			
Backlight g surface are	lass exposed ea [cm²(in.²)]	S3	5691 (882.1)	4892 (758.3)			
Total glass area [cm²(i	exposed surface in. <sup>2</sup> )]	S4	24710 (3830.0)	29333 (4546.6)			
Windshield	iglass (type)		Curved - Laminated Pla	ite			
Side glass	(type)	_	Curved - Tempered Plat	:e			
Backlight g	lass (type)		Curved - Tempered Plat	:e			

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**METRIC (U.S. Customary)** 

MVMA-C-86

R.H. (convex, remote. power. heated)  Visor vanity (RH LH. illuminated)  Parking brake-auto release (warning light)  Door locks deck tid-specify  Seat (2-4-6 way) heated (driver, pass. other) lumbar. hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)  Side windows  Vent windows  Rear window  Rear window  Optional, all except convertible, standard on convertible.  Attack (functional optional)  Rear window  Optional, all except convertible, standard on convertible.	Body Type	•	NOTCHBACK COUPES	HATCHBACK COUPES	CONVERTIBLE COUPE	NOTCHBACK SEDANS	LIFTBACK STATION WGNS.
ando temp configure processing processing and processing processing and processing proce	Conveni	ence Equipment (standard, opti-	onal, n.a.)		<del></del>		
Concess the monometer Not Available Consected floor, overhead) Standard, floor (full, IJC, IJBDO and cockpit IJE, IJFDO) Dehoster, which beauting the convertible Standard, floor (full, IJC, IJBDO and cockpit IJE, IJFDO) Dehoster, which beauting the convertible Convertib			Optional (	manual cont	trol)		
Consider (Note, overhead)  Demoter value (Convertible)  Standard, Tidor (Tull, IJC, IJD00 and cockpit IJE, IJF00)  Demoter value (pages verning (integrated, individual)  Instrument cluster (wit internumens)  Instrument (with the convertible)  Instrument (with the convertible	Clock (digital	i. analog)	Digital(in	teg.w/ste.	rad. K avai	W/AM wad	10 00 13E 13E0
Consider (Note) Debugger   Standard, Floor (Full, IJC, IJD00 and cockpit IJE, IJF00)	Compass : th	ermometer	Not Availa	ble	· dd. d dvdi	W/Alti rau	TO ON THE, THE
Desposits warming (integrated, individual) Instrument cluster (et instruments) Instrument cluster (et	Console (floo	or, overhead)			. 1.10 1.1007	l and cocke	3.4   IE   11.000
Degroese verwing (megrated, individual)   Not Available	Defroster, ele	ec. backlight	Optional	except conv	ertible	did cock	710 TOE, TOPOU)
Electronic Trapminedriary and deep Trapminedriary and		Diagnostic warning (integrated, individual)	Not Availa	51e			
Electronic Trapminedriary and deep Trapminedriary and		Instrument cluster (list instruments)	Opt. Fuel,	tempoil p	resbattery	/ Charge di	mital cheedo/**
Topinios (average (average) (average)   Topinios (average (average) (average)   Topinios (a	<b>5</b> 1	Keyless entry	Not Availa	ole		7 LiFon	Standard (TIEDO
Fuel door lock (emotic kay, electric)  Auto head on / orf delay, dimming  Coursey (map, reading)  Door lock, ignition  Not Available  Lamps  Fige  Coursey (map, reading)  Door lock, ignition  Not Available  Fige  Fige  Not Available  Fige  Not Available  Convertible  Down purch (auto man)  Lith (remote power, heated)  Paring brake-atto relases (warming)  Visor vanny (RH LH illummated)  Not Available  Coursey (map readed (manual))  LH (remote power, heated)  Optional (remote)  R. H. (convex, remote, power, heated)  Optional, manual (convex) IJC, IJD, IJE27, 35, 69, 77. Standard—  Paring brake-atto relases (warming) (mpt)  Standard (manual)  Lith (remote power, heated)  Optional, manual (convex) IJC, IJD, IJE27, 35, 69, 77. Standard—  Paring brake-atto relases (warming) (mpt)  Standard (manual) release) lower area of speedometer  Door locks deck id-speedy  Paring brake-attories pass, other)  Not Available  Door locks deck id-speedy  Paring brake-attories pass, other)  Not Available  Door locks deck id-speedy  Paring brake-attories pass, other)  Not Available  Door locks deck id-speedy  Paring brake-attories pass, other)  Not Available  Door locks deck id-speedy  Optional, 6-way power seat  Manuel relaces (lock)  Anneans (location, whip, w shield, power)  Front fender-R.H., whip standard (exc. IJC00)  Anneans (location, whip, w shield, power)  Anneans (location, whip, w shield, power)  Anneans (location, whip, w shield, power)  Front fender-R.H., whip standard (exc. IJC00)  Anneans (location, whip, w shield, power)  Front fender-R.H., whip standard (exc. IJC00)  Anneans (location, whip, w shield, power)  Anneans (location, whip, w shield, power)  Front fender-R.H., whip standard (exc. IJC00)  Anneans (location, whip, w	Electronic	Tripminder (avg. spd., fuel)	N .			(10200,	Standard (10F00
Fuel door lock (remote key, electric)  Auto head on of diseley, dimming  Comeng  Comeng  Door lock ignition  Not Available  ** (Standard on Convertible)  Door lock ignition  Not Available  Engine compartment  **  Tounk  Day right (auto man.)  Limit (convex, remote power, healted)  Day right (auto man.)  Limit (convex, remote power, healted)  Participation  Very variny (RH Limit illimit passed)  Door lock oek ind specify  D		Voice alert (list items)	11				
Fuel door lock (remote May, electric)  Auto head on' off delay, dimming  Courtesy (map. reading)  Door lock (grider)  Registry (and the country of the count		Other	11	,	<del></del>		<del></del>
Antenna (Codeno, who we shall be performed to the standard on convertible)  Down (Courtey (map reading)			(**) Bar gi	aph tachom	eter		
Comeraging	Fuel door loci	k (remote, key, electric)					
Courtesy (map. reading):  * (Standard on Convertible)  Door lock, ignition	•	Auto head on / off delay, dimming	11			<del></del>	
Door lock ignation		Cornering	11				
Door lock ignation		Courtesy (map. reading)	* (Standard	on Conver	tible)	<del>-</del>	
Fog   Not Available		Door lock, ignition	Not Availat	e		<del></del>	
Giove compartment	1.0000	Engine compartment	*			<del> </del>	
Trunk	Lamps	Fog	Not Availab	le	<del></del>		
Other See * Note    Day night (auto man)   Standard (manual)		Glove compartment	*				
Day night (auto. man.)  LH. (remote. power. heated)  R. H. (convex. remote. power. heated)  Parking brake-auto release (warning light)  Door locks deck ld. speechy  Seat (2-4-6 way)  Indianometer (1-2 present. rectine)  Soe windows  Vent windows  American (coalion. whip. wishield. power)  AM. FM. stero. tape. CB  Speecker (number. location) Premium sound premium dual rear available on 1JE, 1JF00.  Door locks deck ld. speechy  Optional, all except convertible, standard on convertible.  AM. FM. stero. tape. CB  American (scalion. whip. wishield. power)  AM. FM. stero. tape. CB  Speecker (number. location) Premium sound premium dual rear available on 1JE, 1JF00.  Door locks deck ld. speechy  Optional (1-2 premium dual rear available on 1JE, 1JF00.  Dot locks steering wheel  Auto. TransLock mounted on steering column; locks steering wheel, Auto. and ignition. Manual TransLock mounted on steering column; locks steering wheel, and ignition. Manual TransLock mounted on steering column; locks steering wheel and ignition. Manual TransLock mounted on steering column; locks steering wheel and ignition. Manual TransLock mounted on steer locks and ignition. Manual TransLock mounted on steering column; locks steering door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC0, luggage compartment lamp (exc. 35 models). engine comp. lamp. alone comp. lamp. alone comp. lamp. comp. comp. la		Trunk	*				
Day night (auto man.)  LH. (remote power heated)  R. H. (convex. remote power heated)  Parking brake-auto release (warning light)  Door locks deck ld speech  Seat (2-4-6 way)  Indiano (1-2 press)  Seat (2-4-6 way)  Indiano (1-2 press)  Seat (2-4-6 way)  Indiano (1-2 press)  Indiano (1-2 press)  Seat (2-4-6 way)  Indiano (1-2 press)  Indiano (1-2 press)  Indiano (1-2 press)  Americano (non-convertible)  Americano (non-c		Other	See * Note			<del></del>	<del></del>
LH. (remote, power, heated) R.H. (convex, remote, power, heated) Qptional (remote) Qptional, manual (convex)lJC,lJD,lJE27,35,69,77.Standard-lock (manual release) lower area of speedometer    Door locks deck lid-speedy				-		<del></del>	<del></del>
LH. (remote, power, heated) R.H. (convex, remote, power, heated) Qptional (remote) Qptional, manual (convex)lJC,lJD,lJE27,35,69,77.Standard-lock (manual release) lower area of speedometer    Door locks deck lid-speedy		Day night (auto. man.)	Standard (m	ianua 1)			<u></u>
R.H. (convex. remote, power. heated) Visor vanny (RH LH, illuminated) Not Available  Standard (manual release) lower area of speedometer  Optional - both  Seat (2-4-6 way) Seat (2-4-6 way) Iumbar, ripp, thigh support (power, manual) rectining (drover, pass) Vent windows  Vent windows  Vent windows  Vent windows  Antenna (location, whip, wisheld, power)  AM, FM, stero, tape, CB  Speeker (number, location) Premium sound  AM, FM, stero, tape, CB  AM standard (exc. 1JC00)  AM, FM, stero, tape, CB  AM standard (exc. 1JC00), dual rear included w/stereo, premium dual rear available on 1JC, 1JD00, coaxial front & prem. dual rear avail. on 1JE, 1JF00.  Detional (removable) (27, 77, 69)  Optional  Poed control device  Optional  Auto. TransLock mpunted on steering column; locks steering wheel, Auto.  Anto, TransLock mpunted on steering column; locks steering wheel and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp  "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models). engine comm. Jamp, allows comp. Jamp.	Mirrors	L.H. (remote, power, heated)			<del></del>	· · · · · · · · · · · · · · · · · · ·	
Visor vanny (RH LH. Wilmmnated)		R. H. (convex, remote, power, heated)			vex 11.1C 1.1D	1 1527 25 66	77 C+25d25d
Door locks deck to specify  Door locks deck to specify  Standard (manual release) lower area of speedometer  Optional - both  Seat (2-4-6 way) heated (driver, pass, other) lombar, hp things support (power, manual) rectining (driver, pass) memory (17-gest, rectine)  Side windows  Vent windows  Vent windows  Amtenna (location, whip, wisheld, power)  AM, FM, stero, tape, CB  Speaker (number, location) Premium sound  Amtenna (fip-up, slicing, TT)  Optional (removable) (27, 77, 69)  Optional  Optional  Optional  Auto. TransLock mounted on steering column; locks steering wheel and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition, Plus: Anti-theft design door lock buttons.  *Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarer comp. lamp, glove, comp. lamp, g		Visor vanity (RH LH, illuminated)	<del></del>	le (son	· · · · ·	1022/ ,35,0	1 1567 1 1500
Door locks dock lid-specify   Optional - both	Parking brake-	auto release (warning light)			ase) lower as	rea of spo	IJEO/,IJFU(
Seat (2-4-6 way)   heated (nower, pass, other)   lumbar, hip, thigh support (power, manual) reclaining (giver, pass)   memory (1-2 press, tecline)   More in the pressure of	•	Door locks deck tid - specify	<u> </u>		asey tower a	rea or sper	<u>suome cer</u>
Vent windows   Not Available	ower .	heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass)			seat		
Antenna (location, whip, wishield, power)  Antenna (location, whip, wishield, power)  AM, FM, stero, tape, CB  Speaker (number, location) Premium sound  and front & prem, dual rear available on 1JC, 1JD00, coaxial front & prem, dual rear avail. on 1JE, 1JF00.  Deteror optional  pred device (light, buzzer, etc.)  Auto. TransLock mounted on steering column; locks steering wheel, Auto. Trans. shift lever locks steering wheel and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models). engine comp. lamp. clove. comp. lamp.	quipment		Optional, a	ll except o	onvertible	standard o	n convertible
Antenna (location, whip, w shield, power)  AM, FM, stero, tape, CB  Speaker (number, location) Premium sound  AM, FM, stero, tape, CB  Speaker (number, location) Premium sound  Cool open aur fixed (flip-up, sliding, Tr)  Deed control device  Deed control device  Deed warning device (light, buzzer,etc.)  Auto. TransLock mpunted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on lJCOO, luggage compartment lamp (exc. 35 models), engine comp. lamp. glove comp. lamp.		Vent windows	Not Availab	le	onite cibic;	J candara c	in convertible.
AM. FM. stero. tape. CB  Speaker (number, location) Premium sound  2-Standard (exc. 1JC00) Stereo optional  2-Standard, I.P.(exc. 1JC00), dual rear included w/stereo, premium dual rear available on 1JC, 1JD00, coaxial front & prem. dual rear avail. on 1JE, 1JF00.  Deed control device  Optional  Optional  Auto. TransLock mounted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp  "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine comp. lamp. glove comp. lamp.		Rear window					<del></del>
AM. FM. stero. tape. CB  Speaker (number, location) Premium sound  2-Standard (exc. 1JC00) Stereo optional  2-Standard, I.P.(exc. 1JC00), dual rear included w/stereo, premium dual rear available on 1JC, 1JD00, coaxial front & prem. dual rear avail. on 1JE, 1JF00.  Deed control device  Optional  Optional  Auto. TransLock mounted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp  "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine comp. lamp. glove comp. lamp.						<del></del>	
Speaker (number, location) Premium sound  2-Standard, I.P.(exc. 1JC00), dual rear included w/stereo, premium dual rear available on 1JC, 1JD00, coaxial front & prem. dual rear avail. on 1JE, 1JF00.  Deed control device  Deed control device (light, buzzer,etc.)  Auto. TransLock mounted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine comp. lamp. clove comp. lamp.	ladio	Antenna (location, whip, wishield, power)	Front fende	r-R.H. whi	n standard /	Avc 13000	<del>17 '</del>
2-Standard, I.P.(exc. 1JC00), dual rear included w/stereo, premium dual rear available on 1JC, 1JD00, coaxial front & prem. dual rear avail. on 1JE, 1JF00.  Deed control device (light, buzzer,etc.)  Auto. TransLock mounted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine comp. lamp. glove comp. lamp.	ystems	AM, FM, stero, tape, CB	AM standard	(exc. lJCC	00) Stereo o	ontional	<u></u>
Trans. Shift lever and ignition. Manual TransLock mounted on steering wheel, Auto.  Trans. Shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on lJC00, luggage compartment lamp (exc. 35 models), engine comp. lamp. glove.comp. lamp.		Speaker (number, location) Premium sound	2-Standard,	I.P.(exc.	1JC00), dual	rear inc	uded w/stereo,
Optional (removable) (27, 77, 69)  Deed control device   Optional		front & pror	n dual was	Table on Tuc	, 10000, 0	oaxial	
Optional  Deed warning device (light, buzzer.etc.)  Auto. TransLock mpunted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on IJCOO, luggage compartment lamp (exc. 35 models), engine compartment lamp alove compartment lamp.	loof open air fi:	xed (flip-up, sliding, "T")	Optional (nomewable) (07 77 60)				
Not Available  Optional (1JC, 1JD, 1JE00) Standard (1JF00)  Auto. TransLock mpunted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine compartment lamp alove compartment lamp.			Optional (7	emovable) (	27, 77, 69)		
Auto. TransLock mpunted on steering column; locks steering wheel, Auto.  Trans. shift lever and ignition. Manual TransLock mounted on strg. column; locks steering wheel and ignition. Plus: Anti-theft design door lock buttons.  *-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on lJCOO, luggage compartment lamp (exc. 35 models), engine compartment lamp alove compartment lamp.	peed warning	device (light, buzzer,etc.)		10			
*-Avail in optional lighting package only. Consists of following: headlamp "on" warning chimes, ash tray lamp & cigarette lighter on 1JC00, luggage compartment lamp (exc. 35 models), engine compartment lamp (exc. 35 models).					EOO\ Chandau	d /2.3500\	<del></del>
"on" warning chimes, ash tray lamp & cigarette lighter on 1JCOO, luggage compartment lamp (exc. 35 models), engine comparatment lamp (exc. 35 models).		locks steering whee	ounted on steam and ignition. I and ignition	ering colu Manual Tr An Pluse A	mn; locks st ansLock mo	eering whe	trg. column;
compartment lamp (exc. 35 models), engine comp. lamp. glove comp. lamp.	~-/	ון בווער וויי ייייי יייייי	io backade or	IIV. Inneie	ts of follow	ina, bosdl	200
compartment ramp (exc. 35 models), engine comp lamp alove comp lamp		on warning chimes, ash	trav lamn k	cidarette	lighter on 1	1000 1000	3.55
		Joinpar Linent Tailib (6XC. 35	) models), er	ነወገክፁ ሮስመከ	lamn olovo	COMP lam	

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

ons 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	SAE Ref. No.	NOTCHBACK COUPE	CONVERTIBLE COUPE	HATCHBACK COUPE
Width		· · · · · · · · · · · · · · · · · · ·	<del></del>	
read (front)	W101	1406 (55.4)		
rear (rear)	W102	1401 (55.2)		······································
/ehicle width	W103	1677 (66.0)		
ody width at Sg RP (front)	W117	1652 (65.0)		
/ehicle width (front doors open)	W120	3684 (145.0)		
/ehicle width (rear doors open)	W121	==		
ront fender overall width	W106	1652 (65.0)		
Rear fender overall width	W107	1677 (66.0)		
Tumble-home (deg.)	W122	21.5°	. , , , , , , , , , , , , , , , , , , ,	
	.4			
<u>-ength</u>	, <sub>1</sub>		<u></u>	
Vheelbase	L101	2571 (101.2)		
/ehicle 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)		
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)
leight ''				
Passenger distribution (front/rear)	PD1,2,3		18	
Frunk/cargo load			8.1	
/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			
Vindshield slope angle	H122	58.5°	58.8°	58.7°
Backlight slope angle	H121	51.0°	54.5°	69.0°
Ground Clearance **				
Front bumper to ground	H102	370 (14.6)		365 (14.4)
Rear bumper to ground	H104	266 (10.5)		1 707 (1747/
Bumper to ground [front at curb mass (wt.)]	H103	381 (15.0)		376 (14.8)
Bumper to ground (rear at curb mass (wt.))	H105	369 (14.5)	····	368 (14.5)
Angle of approach (degrees)	H106	26.5°		1 300 (1943)
Angle of departure (degrees)	H107	13.1°		
Ramp breakover angle (degrees)	H147	12.9°		
Axle differential to ground (front / rear)	H153	16.5		
Ain. running ground clearance	H156	115 (4.5)		

<sup>\*\*</sup>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.

 Car Line
 CAVALIER

 Model Year
 1986
 Issued
 7-85
 Revised (e)
 9-85

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.

Body Type Width	SAE Ref. No.	NOTCHBACK SEDANS	LIFTGATE STATION WAGONS
Tread (front)	W101	1406 (55.4)	
Trear (rear)	W102	1401 (55.2)	
Vehicle width	W103	1685 (66.3)	· · · · · · · · · · · · · · · · · · ·
Body width at Sg RP (front)	W117	1652 (65.0)	
Vehicle width (front doors open)	W120	3218 (126.7)	
Vehicle width (rear doors open)	W121	2832 (111.5)	
Front fender overall width	W106	1652 (65.0)	· · · · · · · · · · · · · · · · · · ·
Rear fender overall width	W107	1685 (66.3)	
Tumble-home (deg.)	W122	21.5°	22.0°
Length			
Wheelbase	L101	2571 (101.2)	
Vehicle length	L103	4428.0 (174.3)	4433.5 (174.5)
Overhang (front)	L104	896.5 (35.3)	1: 7700.0 (174.0)
Overhang (rear)	L105	960.5 ( 37.8)	966.0 ( 38.0)
Upper 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)
Front end length at centerline	L126	1291 (50.8)	246 ( 9.7)
Rear end length at centerline	L129	595 (23.4)	34 ( 1.3)
Helght **	1 2.23	393 (23.4)	34 ( 1.3)
Passenger distribution (front/rear)	PD1,2,3		**
Trunk/cargo load			**
Vehicle 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	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)	184 ( 7.2)
Bottom of door closed-rear to grd.	H135	283 (11.1)	259 (10.2)
Windshield slope angle	H122	55.0	
Backlight slope angle	H121	49.0	35.5
Ground Clearance **			-
Front bumper to ground	H102	370 (14.6)	367 (14.4)
Rear bumper to ground	H104	265 (10.4)	273 (10.7)
Bumper to ground (front at 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°
Axle differential to ground (front / rear)	H153	16.5	17.0
Min. running ground clearance	H156	115 (4.5)	132 (5.2)
YOUR LOCKING GLOGING CHARLANCH			1 (27 (6 7)

<sup>\*\*</sup>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.

**CAVALIER** Car Line 1986 7-85 Model Year\_ Issued Revised (\*)

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

**Body Type** 

SAE Ref. No.	NOTCHBACK COUPE	CONVERTIBLE COUPE	HATCHBACK COUPE
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Front Compartm	ent
----------------	-----

Front Compartment				
Sg RP front, "X" coordinate	L31	1113 (43.8)	1128 (44.4)	
Effective head room	H61	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	H30	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		
Hip angle	L42	96.0	99.0	96.0
Knee angle	L44	126.5	133.0	126.5
Foot angle	L46	87.0		
Design H-point front travel	L17	192 ( 7.6)		
Normal driving & riding seat track trvl.	L23	171 ( 6.7)		
Shoulder room	W3	1364 (53.7)	-	
Hip room	W5	1248 (49.1)	1230 (48.4)	1248 (49.1)
Upper body opening to ground	H50	1202 (47.3)		
Steering wheel maximum diameter	W9	375 (14.8)	368 (14.5)	375 (14.8)
Steering wheel angle	H18	20.0	18.5	20.0
Accel, heel pt. to steer, whi, cntr	L11	Not Available		
Accel, heel pt. to steer, whill cntr	H17	n n		
Steering wheel to C/L of thigh	H13	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)	H37	10 ( 0.4)		
Undepressed floor covering thickness	H67	16 ( 0.6)	17 ( 0.7)	16 ( 0.6)
Rear Compartment	•		Measured With The Seating Reference	
Sg RP Point couple distance	L50	720 (28.3)	705 (27.8)	715 (28.1)
	· · · · · · · · · · · · · · · · · · ·	001 /00 71	1 040 /27 43	00F /0C /\

Sg RP Point couple distance	L50 720 (28	.3) 705 (27.8)	715 (28.1)
Effective head room	н63 931 (36	.7) 949 (37.4)	925 (36.4)
Min. effective leg room	L51 807 (31	.8) 774 (30.5)	807 (31.8)
Sg RP (second to heel)	нзі 259 (10	.2)	252 ( 9.9)
Knee clearance	L48 -21 (-0	.8) -35 (-1.4)	-24 (-0.9)
Compartment room	L3 635 (25		652 (25.7)
Shoulderroom	w <sub>4</sub> 1335 (52	.6 964 (38.0)	1322 (52.0)
Hip room	we 1265 (49	.8) 964 (38.0)	1234 (48.6)
** Upper body opening to ground	H51		
Back angle	L41 25.0	19.0	25.0
Hip angle	L43 78.0		
Knee angle	L45 78.5	76.5	81.0
Foot angle	L47 115.5	114.0	116.5
Headlining to roof panel (second)	нзв 9 (0.4		10 (0.4)
Depressed floor covering thickness	нтз 18 (0.7	) 19 (0.7)	18 (0.7)

## Depressed floor covering thickness

Euggage Compartment					 
Usable luggage capacity [L (cu. ft.)]	V1	374 (	(13.2)	294 (10.4)	 
ss Liftover beight	H195	750 (	29 5)		 755 (29.7)

## Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)	Compact			
Interior volume index (cu. ft.)	85.0	77.1	84.1	
Trunk/cargo index (cu. ft.)	13.2	10.3	14.8	

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

· Car Line \_

Model Year 1986

CAVALLER

Revised (\*)

our and body	See Key Sileets to	i ueminor

			NOTCHBACK		I ) ICTCATE	
		SAE Ref.	SEDANS		LIFTGATE	
	Body Type	No.	1JC-1JD69	1 1560	STATION WAGONS	3 3505
•		<b>L</b>	100-10009	1JE69	1JC-1JD35	1JE35
	Front Compartment		e -		1	
	Sg RP front, "X" coordinate	L31	1113 (43.8)	1128 (44.4)	1113 (43.8)	1128 (44.4)
	Effective head room	H61	980 (38.6)	1008 (39.7)	973 (38.3)	1002 (39.4)
	Max. eff. leg room (accelerator)	L34	1072 (42.2)	1090 (42.9)	1072 (42.2)	1002 (39.4
	SgRP to heel point	H30	257 (10.1)	230 ( 9.1)	256 (10.1)	230 ( 9.1)
	SgRP to heel point	L53	866 (34.1)	897 (35.3)	866 (34.1)	
	Back angle	L40	25.0	031 (33.3)	1 000 (34.1)	897 (35.3)
	Hip angle	L42	98.0	99.0	98.5	00.0
	Knee angle	L44	127.0	132.0	127.5	99.0
	Footangle	L46	87.0	132.0	1 127.5	132.0
	Design H-point front travel	L17	192 ( 7.6)			
	Normal driving & riding seat track tryl.	L23	171 ( 6.7)	<del></del>	170 ( 6 7)	
	Shoulder room	W3	1363 (53.7)		170 ( 6.7)	
	Hip room	W5	1240 (48.8)	<del></del>	1 1241 (40.0)	
	Upper body opening to ground	H50	1202 (47.3)	<u> </u>	1241 (48.9)	***
	Steering wheel maximum diameter	W9	375 (14.8)	368 (14.5)	1219 (48.0)	200 (14 5)
	Steering wheel angle	H18	20.0		375 (14.8)	368 (14.5)
	Accel, heel pt. to steer, whi, cntr	L11		18.5	20.0	18.5
	Accel. heel pt. to steer, whil cntr	H17	Not Available	* *************************************		
	Steering wheel to C/L of thigh	H13	Not Available 86 (3.4)	100 (4.2)	1 00 ( 2.5)	300 (4.0)
	Steering wheel torso clearance	L7	377 (14.8)	108 (4.3)	88 ( 3.5)	108 (4.3)
	Headlining to roof panel (front)	H37		380 (15.0)	377 (14.8)	380 (15.0)
	Undepressed floor covering thickness	H67	10 ( 0.4) 16 ( 0.6)		13 ( 0.5)	
	or depression covering trickness	1,10,1		Are Meneured With The Co.	ating Reference Point (SgRP)	
	Rear Compartment	···	Adjuster Notch) Forward	Of Rearmost Seat Position	ning Hererence Point (SGHP)	mm (1 Seat
	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	
	Knee angle	L45	85.0	80.0	86.0	81.0
	Foot angle	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					
			<del></del>		1	· · · · · · · · · · · · · · · · · · ·
	Usable luggage capacity [L (cu. ft.)]	V1	386 (13.6)			

Compact 91.1 Interior volume index (cu. ft.) Trunk/cargo index (cu. ft.)

Vehicle class (subcompact, compact, etc.)

13.6

91.9

90.9

34.1

All linear dimensions are in millimeters (inches).

\*\* EPA Loaded Vehicle Weight, Loading Conditions

CAVALIER Model Year 1986 \_\_ Issued \_\_7<u>-85</u>\_ Revised (●)

Car and Body Dimensions			· ·			
Body Type	SAE Ref. No.	HATCHBACK COUPE		L I FTI WAGOI		
Station Wagon — Third Seat						
Sg RP couple distance	L85	Not				
Shoulderroom	W85	Applicable		·····	· · · · · · · · · · · · · · · · · · ·	
Hip room	W86					
Effective leg room	L86					<del></del>
Effective head room	H86		·	-		
Sg RP to heel point	H87					
Knee clearance	L87			<u> </u>	<del></del> ·	··· · · · · · · · · · · · · · · · · ·
Seat facing direction	SD1		<del></del>			
Back angle	L88					
Hip angle	L89					
Knee angle	L90	<del>                                     </del>				
Foot angle	L91	<b> </b>				
Station Wagon – Cargo Space					* <u>.</u> *	
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	<del></del>	,	764	(30.1)	· · · · · · · · · · · · · · · · · · ·
Tailgate to ground height	H250	<u>†                                      </u>		490	(19.3)	
Front seat back to load floor height	H197	†				
Cargo volume index [m³(ft.³)]	V2	-		18241	_ (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			·	· · · · · · · · · · · · · · · · · · ·	•	<u> </u>
Cargo length at front seatback height	L208	1107 (43.6)		Not		
Cargo length at floor (front)	L209	1617 (63.7)	)		icable	
Cargo length at second seatback height	L210	745 (29.3)	)			<del></del>
Cargo length at floor (second)	L211	906 (35.7				
Front seatback to load floor height	H197	602 (23.7		<del></del>	-	
Second seatback to load floor height	H198	384 (15.1				
Cargo volume index (m³(ft.³)]	V3	1084 (38.3		<del></del>		·
Hidden cargo volume [m³(ft.³)]	V4					
Cargo volume index-rear of 2-seat	V11	419 (14.8	)			
	<del> </del>		·			

		· · · · · · · · · · · · · · · · · · ·		<del></del> -	
Aerodynamics*		N/B Coupe   Convertible	H/B Coupe	Sedan	Wagon
Wheel lip to ground, front	H172	644 (25.4)			648 (25.5)
Wheel lip to ground, rear	H173	628 (24.7)		616 (24.3)	637 (25.1)
Frontal area [m²(tt²)]	FA	1.81 (0.071)		1.83 (0.072)	1.88 (0.074)
Drag coefficient (Cd)				<del>1. ··· · · · · · · · · · · · · · · · · ·</del>	

<sup>\*</sup> EPA Loaded Vehicle Weight, Loading Conditions

Car Line	CAVALIER		<del></del>		
Model Year	1986	Issued	7-85	Revised (•)	

**Body Type** 

NOTCHBACK	CONVERTIBLE	HATCHBACK	NOTCHBACK	LIFTBACK
COUPE	COUPE	COUPE	SEDANS	STATION WGNS. 1

## Vehicle Fiducial Marks

Fiduciál Mark Number*	Define Coordinate Location	•						
Front	X - Fiducial mark to vertical base grid line - front measure horizontally, from the base grid line to the front fidelic located on top of the front seat adjuster mounting books.	ducial mark						
· ••	Y - Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.							
	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.	easured located on top						
	· · · · · · · · · · · · · · · · · · ·							
Rear	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						
	Y - Fiducial mark to centerline of car - rear, width measure from centerline of car to fiducial mark located on the (compartment pan - longitudinal).	urement made e rail						
Fiducial Mark Number	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).	asured ark located on						
W21	504 ( 19.8)							
ront H81	(*) 746 ( 29.4) (#) -54 (-2.1)							
H161	Curb 293 (11.5)	300 (11.8)						
** H163	269 (10.6)	278 (10.9)						
W22	440 ( 17.3) (*)2900 (114.2) (*)2951 (1)	(6.2)						
Rear H82	(#) 62 ( 2.4)							
H162	Curb 413 (16.3) 381 (15.0)	429 (16.9) 401 (15.8)						
1		101-(12-0)						
	(*) Base Grid is 2000mm Line							

<sup>\*</sup> Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

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

CAVALIER Car Line \_\_\_\_ Model Year 1986 Issued 7-85 \_ Revised (•)

**Body Type** 

NOTCHBACK COUPE				LIFTBACK STATION WAGONS
--------------------	--	--	--	----------------------------

Lamps and	Headlamp Sh	ape*							
	Headlamp	Highest**	646(25.4)			647(25	.5)		
	(SAE - H127)	Lowest	646(25.4)			647(25			
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)						
	Inside Headlamp		424.5(16.7)						
		Outside**	600.0(23.6)						
Distance from C/L of car to	Taillamp	Inside							
center of bulb		Outside**	591.0(23.3)	678.0(26.7	) 591.0(23	3.3) 714	4.5(28.1)		
	Directional	Front	569.0(22.4)			·			
		Rear	591.0(23.3)	678.0(26.7	) 591.0(23	3.3) 714	1.5(28.1)		
	Lo beam		0-4		<del></del>		· · · · ·		
Halogen	Hi beam		Optional Optional						
headlamp (std., opt., n.a.)	Replaceabl	e bulb	Sealed beam entire unit replaced						
	Shape		Rectangular						
	Lo beam		Not Available						
Headlamp	Hi beam		Not Available						
other than above	Replaceabl	<u>e</u>	Not Available						
	Shape		Not Available						
	Туре		Not Available						

<sup>\*</sup> Measured at curb mass (weight).
\*\* If single lamps are used enter here.

Car Line	CAVALIER				
Model Year	1986	Issued	7-85	Revised (•)	

		4 (j')	2 +	Vehicle N	Aass (w	eight)		
	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING
Model				Pass	n Front	Pass I	n Rear	SHIPPING MASS, kg (weight, lb.)**
0	Front	Rear	Total	Front	Rear	- Front	Rear	. (Weight, 18.)
Cavalier		,				ļ <u>.</u>		<u> </u>
2-Door Notchback	514.9	528.1	1043.0					1012.0
Coupe 1JC27	(1135)	(1164)	(2299)				<del> </del>	(2231)
4 Doon Notobback	C24 C	527.0	1000 4		ļ		ļ	1001
4-Door Notchback Sedan 1JC69	524.5 (1156)	537.9 (1186)	1062.4			ļ	<del> </del>	1031.4
	(1130)	(1180)	(2342)					(2274)
4-Door Station	540.7	553.6	1094.3			·		1002 2
Wagon 1JC35	(1192)	(1220)			<u> </u>		<del>                                     </del>	1063.3
wagon: 10055	111321	(1220)	(2412)		<del></del> -	<del> </del> -	<del> </del>	(2344)
Cavalier 'CS'	<b> </b>					<del> </del>	<del> </del>	<del>                                     </del>
2-Door Hatchback	531.6	545.5	1077.1				<del>                                     </del>	1046.1
Coupe 1JD77	(1172)	(1203)				1	<del>                                     </del>	(2306)
	1	\ <u></u>						1 (2300)
4-Door Notchback	527.2	541.0	1068.2			<u> </u>		1037.2
Sedan 1JD69	(1162)					<del></del>		(2287)
		· · · · · · · · · · · · · · · · · · ·	<del></del>	-				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
4-Door Station	543.0	556.3	1099.3					1068.3
Wagon 1JD35	(1197)	(1226)						(2355)
								(2000)
Cavalier 'RS'								
2-Door Notchback	520.5	534.2	1054.7					1023.7
Coupe 1JE27	(1147)	(1178)	(2325)					(2257)
	1						<u> </u>	<b></b>
2-Door Hatchback	534.4	548.3	1082.7				<u> </u>	1051.7
Coupe 1JE77	(1178)	(1209)	(2387)			•	ļ	(2319)
A Door Notabback	F20 0	F42 0	1072 0	<del> </del>				1040
4-Door Notchback Sedan 1JE69	530.0 (1168)	543.8 (1199)	1073.8		*		<u> </u>	1042.8
Sedan 10E03	(1108)	(1199)	(2367)	1			<del> </del>	(2299)
4-Door Station	546.6	560.0	1106.6	-			<del> </del>	1075 6
Wagon 1JE35		(1235)						1075.6 (2371)
10200	12037	(1233)	(2440)				<del> </del>	(23/1)
2-Door Convertible	547.7	561.3	1109.0				†	1078.0
Coupe 1JE67			(2444)				<del> </del>	(2376)
.050,	1	1.207	,	_		<u> </u>	<del>                                     </del>	123707
Cavalier Z24								•
2-Door Notchback	563.8	579.0	1142.8					1111.8
Coupe 1JF27			(2519)					(2451)
2-Door Hatchback		593.1	1170.8					1139.8
Coupe 1JF77	(1274)	(1307)	(2581)					(2513)
			, ,					V
							1	
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	. <del>   </del>		. <u></u>				1	
	1			ll		L	<u> </u>	

<sup>\*</sup> Reference – SAE J1100 Motor vehicle dimensions, curb weight definition. \*\* Shipping mass (weight) definition –

Car LineCAVALIER			•	•	٠.
Model Year 1986	Issued	7-85	_ Revi	sed (•) _	

		0	ptional Equi	pment Differential Mass (weight)*
Equipment	М	ASS, kg. (weig	<del></del>	Remarks
	Front	Rear	Total	
Removable Sun Roof	3.4	3.8	7.2	All except station wagons and
RPO AD3	(7.5)	(8.4)	(15.9)	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)	
Power Door Lock System	<b>.</b> 6	1.0	1.6	2-Doors
RPO AU3	(1.3)	(2.2)	(3.5)	7-00013
	1.0	1.6	2.6	4-Doors
	(2.2)	(3.5)	(5.7)	
Power Liftgate Release RPO AU6	4 (-0_9)	1.6	(2.6)	Station Wagons
	i	` ′	. ,	
Power Trunk Opener RPO A90	2 (-0.4)	.8 (1.8)	.6 (1.4)	All 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 (7.0)	5.0 (11.0)	4-Doors
Floor Mats-Front Only Color keyed Carpet	1.2 (2.6)	(0)	(2.6)	
RPO B34	(2.0)	(0)	(2.0)	
Floor Mats-Rear Only	0	.8	.8	
Color keyed Carpet RPO B35	(0)	(1.8)	(1.8)	
Body Side Moldings	.8	1.0	1.8	'Cavalier' series
RPO B84	(1.8)	(2.2)	(4.0)	LUI AEI IEA
			;	
		-		

<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

Model Year 1986 Issued 7-85 Revised (•)

		O	ipment Differential Mass (weight)*		
	N	IASS, kg. (wei	ght, (b.)	B	
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	Station wagons and hatchbacks	
Washer RPO C25	(1.8)	(9.7)	(7.9)		
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)		(39.2)		
<u> </u>	21.4	-1.6	19.8	With Automatic Trans	
	(47.2)		(43.7)	RILLI GUILIMOLII II GUI	
Rear Window Louvers	8	8.6	7.8.	'RS' and '724' hatchback	
RPO DE 1	(1.8)	(18.9)	(17.1)		
Sport Mirrors-Left Hand	-4	Ω	4	Standard convertible & '724' series	
Remote, RH Manual	(0.9)	(0)	(0.9)	optional balance of models	
RPO 035					
Rear Compartment	4	2.8	2.4	Station wagons and hatchbacks	
Cargo Cover RPO D42	(-0.9)	(6.2)	(5.3)		
Rear Spoiler RPO D80	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	
		ļ			
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	+	<del> </del>			

<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

 Car Line
 CAVALIER

 Model Year
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(0.01 0.00 m.z.),						
		0	ptional Equip	ment Differential Mass (weight)*		
Equipment		IASS, kg. (weig		Remarks		
Sport Suspension	Front 2.8	Rear 4.4	7.2	ICavaliant ICCL coming and		
RPO F41	(6.2)	(9.7)	(15.9)	'Cavalier', 'CS' series and 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) RPO LB6	53.4	1.0	54.4 (119.9)	Optional convertible, standard Z24 series		
				ZZ4 Series		
Five-Speed Manual Transmission RPO MM5	5.0 (11.0)	(-0.9)	4.6 (10.1)	<del> </del>		
	(11.0)	(~0.9)				
Automatic Transmission	27.5	0 (0)	27.5			
RPO MX1	(60.6)	(0)	(60.6)			
Sport Steering Wheel	.2	0	.2	'Cavalier' and 'CS' series		
RPO NK3	(0.4)	(0)	(0.4)			
Comfortilt Steering	.8	-4	1.2			
Wheel RPO N33	(1.8)	(0.9)	(2.7)	<del>                                     </del>		
Power Steering	8.8	.4	9.2	Standard 'RS' and 'Z24' series		
Required with LB6 eng. RPO N40	(19.4)	(0.9)	(20.3)	optional 'Cavalier' and 'CS' series		
Crant Uhaal Cayana						
Sport Wheel Covers RPO PB2	(1.8)	(1.8)	1.6 (3.6)	'Cavalier', 'CS' and 'RS'		
Rally Wheels 14" RPO PC4	(3.5)	(3.5)	3.2 (7.0)	Standard 'Z24' series. Optional convertible.		
**						
Aluminum Wheels 14" RPO PD8	<del>                                     </del>			Z24 series		
Wheel Trim Rings RPO PO6	(0.9)	(0.9)	.8 (1.8)	Standard 'RS' series. Optional 'Cavalier' and 'CS' series		
Aluminum Wheels (13") RPO PX1	(0.9)	(0.9)	.8	'Cavalier', 'CS', and 'RS' series		
		(0.5)	(1.8)			
Heavy Duty Battery	2.8	4	2.4	All except L-4 engine with		
(Mandatory for Canada) RPO UA1	(6.2)	(-0.9)	(5.3)	automatic trans.		

<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

Car Line	CAVALIER				
Model Year_	1986	_ Issued _	7-85	Revised (•)	-

METRIC (U.S. Customary)

	Optional Equipment Differential Mass (weight)*				
Equipment	N	IASS, kg. (we	<del></del>	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	1		;	'Cavalier' series	
AM/FM Stereo Radio,	.8	.2	1.0	All except 'Cavalier' series	
Cassette Player-ETR	(1.8)	(0.4)	(2.2)	ATT EXCEPT CAVATTET SELLES	
(with seek scan, and	1 (1.0)	(0.4)	(2.2)		
clock) RPO UM6	2.2	.2	2.4	'Cavalier' series	
m o drio	(4.8)	(0.4)	(5.2)	Cavarier Series .	
				•	
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)	· · · · · · · · · · · · · · · · · · ·	
NFO OR4	1.0	.2	1.2	'Cavalier' series	
	(2.2)	(0.4)	(2.6)	OWIGITED DELINE	
AM/CM Character Co. L.			1 .		
AM/FM Stereo Radio.	.8	.2	1.0	All except 'Cavalier' series	
Cassette Player-ETR	(1.8)	(0.4)	(2.2)		
(w/seek and scan, clock	<del>                                     </del>		<del></del>		
and graphic equalizer)	2.2	10.2	2.4	'Cavalier' series	
RPO UX1	(4.8)	(0.4)	(5.2)		
Gage Package with	.4	0	.4	'Cavalier' and 'CS' series	
Tachometer (includes	(0.9)	(0)	(0.9)		
pushbutton trip					
odometer) RPO U21			,		
Gage Package (includes	.2	0	.2	'Cavalier' and 'CS' series	
new pushbutton trip	(0.4)	(0)	(0.4)		
odometer) RPO U22					
0:	<del> </del>				
Cigarette Lighter and	.2	0	.2	'Cavalier' series standard on	
Ash-Tray Lamp RPO U37	(0.4)	(0)	(0.4)	balance of models	
AM Radio	1.0	.4	1.4	'Cavalier' series standard on	
RPO U63	(2.2)	(0.9)	(3.1)	balance of models	
Dunanium Dunii Daare	1 1 4	1 1		10	
Premium Dual Rear	(3.1)	1.4	2.8	'Cavalier' and 'CS' series with	
Speakers RPO U66	13.11	(3.1)	(6.2)	stereo radios only (except UX1)	
Fixed Mast Antenna	.6	٥	-6	'Cavalier' series standard on	
RPO U73	(1.3)	(0)	(1.3)	balance of models	
	<del> </del>				
				-	
	<del> </del>				
	1	l	L	<u> </u>	

<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

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Car Line <u>CAVALIER</u>					
Model Year 1986	issued	7-85	_ Revis	sed (•)	9-85

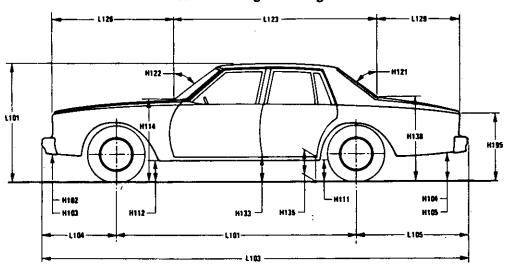
			0	ptional Equi	pment Differential Mass (weight)*
Equipment		MASS, kg. (weight, lb.)		ght, lb.)	Remarks
		Front	Rear	Total	
Coaxial Front and		.6	1.2	1.8	'RS' and 'Z24' series with stereo
Premium Rear Spe		(1.3)	(2.7)	(4.0)	radios only (except UX1)
	RPO 079				
Heavy Duty Radia	ator	2.0	4	1.6	'Cavalier', 'CS', and 'RS' with L-2
RPU VOT		(4.4)	(-0.9)	(3.5)	engine with 4 and 5-speed manual
·			· · · · · · · · · · · · · · · · · · ·		transmission and air conditioning
	·	1.6	2	1.4	With 4 and 5-speed manual
		(3.5)	(-0.4)	(3.1)	transmission and w/o air
	-			. —	conditioning
		1.6	2	1.4	With automatic transmission
		(3.5)	(-0.4)	$\frac{3.1}{3.1}$	and air conditioning
· <del></del>	<del></del>	(3.3)	(-0.4)	(3.1)	and an conditioning
		1.4	2	1.2	With automatic transmission
		(3.1)	(-0.4)	(2.7)	w/o air conditioning
<del></del>			,	<u> </u>	
Bumper Guards-F		.4	.4	.8	'Cavalier', 'CS', and 'RS' series
and Rear	RPO V30	(0.9)	(0.9)	(1.8)	
Roof Carrier	·	2.4	5.0	7.4	Station wagons
	RPO V55	(5.3)	(11.0)	(16.3)	
'CL' Custom Int	erior	50.2	12.2	62.4	All except convertible
02 00300111 1110	RPO Z12	110.7	(26.9)	137.6	711 CACCPO CONVENTIONE
	1110 212	11007	(2000)	.00	
		<del> </del>	<del>                                     </del>		
				· · · · · · · · · · · · · · · · · · ·	
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		<u> </u>			

<sup>\*</sup>Also see Engine - General Section for dressed engine mass (weight).

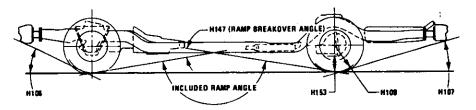
## Exterior Car And Body Dimensions – Key Sheet

# **Exterior Width** SECTION A.A

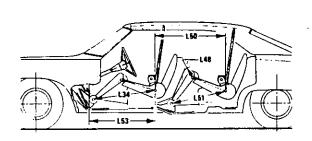
## Exterior Length & Height

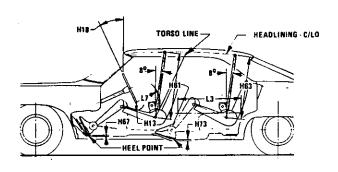


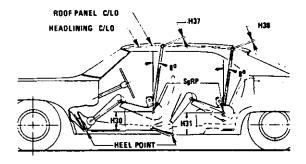
## **Exterior Ground Clearance**

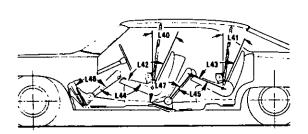


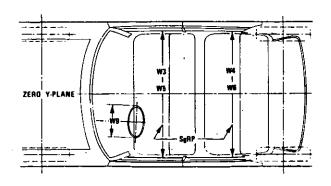
## Interior Car And Body Dimensions – Key Sheet

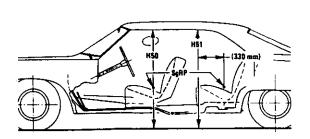






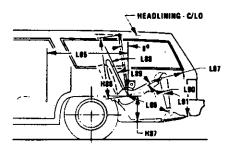


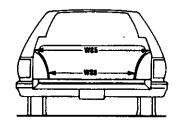




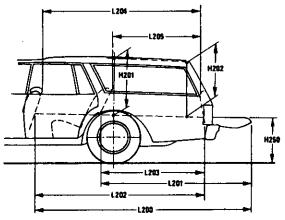
## Interior Car And Body Dimensions - Key Sheet

**Third Seat** 

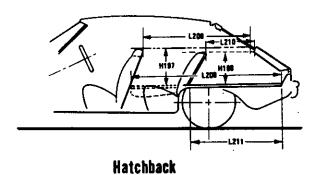




Cargo Space



Station Wagon



in E time (0.0. oddiomary)

Exterior Car And Body Dimensions – Key Sheet Dimensions Definitions

#### Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which –

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure:
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "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 rear door on only one side, this dimension is to the zero "Y" plane.

  W122 TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle
- W122 TUMBLE-HOME. STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.

  CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP

#### **Length Dimensions**

"X" plane.

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

#### **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

- L54 . "X" coordinate.
- W21<sup>^</sup> "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb 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.
- L23 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.
- 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 J826.
- 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 centerline.
- 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

- L41 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 cenerline.
- 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 1826)
- L48 KNEE CLEARANCE—SECOND. The minimum dimension measured from the knee pivot center to the back of front seat-back 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 SgRP—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.
- H51 UPPER BODY OPENING TO GROUND—SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in) forward of the SgRP—second.
- H63 EFFECTIVE HEAD ROOM—SECOND. The dimension measured along a line 8 deg rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension 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-J1100.
- 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 rear 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 the the SgRP-third.
- 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. Mesured in the same manner as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45.
- 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. rear from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- PD3 PASSENGER DISTRIBUTION-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 seat-back at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering 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.
- 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 seat-back 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

	<u> </u>
W203	REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of
W204	the rear opening at floor level.  REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of
<b>W20</b> 5	the rear opening at belt height or top of pick up box. REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interfer-
H197	ences of the rear opening above the belt height. FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to
H201	the top of the seatback to the undepressed floor covering. CARGO HEIGHT. The dimension measured vertically from 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 verti- cally from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door
H250	fully open. 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: W4 x H201 x L204
	1728 = ft <sup>3</sup> Measured in mm:
	$\frac{\text{W4 x H201 x L204}}{\text{10}^9} = \text{m}^3 \text{ (cubic meter)}$
.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:  L506 x W500 x H503
	1728 = ft <sup>3</sup> Measured in mm:  1 506 x W500 x H503
	$\frac{L506 \times W500 \times H503}{10^9} = m^3 \text{ (cubic meter)}$
V6	TRUCKS AND MPV'S WITH CLOSED AREA.  Measured in inches:  L204 x W500 x H505  ft <sup>3</sup>
	1728
•	Measured in mm: $\frac{L204 \times W500 \times H505}{10^9} = m^3 \text{ (cubic meter)}$
V8	HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the
V10	load floor rear of the second seat. STATION WAGON CARGO VOLUME INDEX. Measured in inches:
	$\frac{\text{H201} \times \text{L205} \times \frac{\text{W4} + \text{W201}}{2}}{2} = \text{ft}^3$
	1728 — " Measured in mm:
	H201 x L 205 x W4 + W201
	$\frac{2}{10^9} = m^3 \text{ (cubic meter)}$

## 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.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT—
  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.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK.
  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.
- V3 HATCHBACK.
  Measured in inches:

Measured in mm:

ed in mm:  

$$\frac{1208 + 1209}{2} \times W4 \times H197$$

$$= m^3 \text{ (cubic meter)}$$

- 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.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:

  Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{2} = ft^{3}$$

Measured in mm:

$$\frac{L210 + L211}{2} \times W4 \times H198$$

$$= m^{3} \text{ (cubic meter)}$$

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