

# MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

# 1996

Manufacturer	CHEVROLET MOTOR DIVISION GENERAL MOTORS CORPORATION	Vehicle Line	
Mailing Address	30007 VAN DYKE WARREN, MICHIGAN 48090-9065	CAVALIER	
		Issued	Revised
		SEPTEMBER, 1995	

Direct questions concerning these specifications to the manufacturer listed above.

The information contained herein is prepared, distributed by, and is solely the responsibility of the vehicle manufacturing company to whose products it relates. This specification form was developed by the vehicle manufacturing companies under the auspices of the American Automobile Manufacturers Association.

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

## AAMA

American Automobile Manufacturers Association

Blank Forms Provided by Technical Affairs Division

# AAMA Specifications

## METRIC (U.S. Customary)

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#### NOTE:

1. This form uses both SI Metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
  - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
  - b. Nominal design dimensions are used throughout these specifications.
  - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of compilation and are subject to change without notice or incurring obligation by the manufacturer.
4. Additional Vehicle Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (\*) \_\_\_\_\_

## METRIC (U.S. Customary)

### Vehicle Origin

Design & development (company)	General Motors Corporation, L.A.D. Lansing
Where built (country)	U.S.A
Authorized U.S. sales marketing representative	Chevrolet Motor Divisions

### Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
CAVALIER					
2-Door Notchback Coupe (FWD)	9-95	1JC37	2/3	60(132)	25/34
4-Door Notchback Sedan (FWD)	9-95	1JC69	2/3	60(132)	25-34
CAVALIER "LS"					
2-Door Convertible (FWD)	9-95	1JF67	2/3	60(132)	25/34
4-Door Sedan (FWD)	9-95	1JF69	2/3	60(132)	25/34
CAVALIER "Z24"					
2-Door Notchback Coupe	9-95	1JF37	2/3	60(132)	23/33

\* FWD - Front Wheel Drive RWD - Rear Wheel Drive AWD - All Wheel Drive 4WD - Four Wheel Drive

# AAMA Specifications

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 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

### Power Teams

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

		A	B	C	D	E	
<b>E N G I N E</b>	Engine Code	LN2	LN2	LN2	LD9	LD9	
	Displacement Liters (in <sup>3</sup> )	2.2L (133) 4L	2.2L (133) 4L	2.2L (133) 4L	2.4L (146) 4L	2.4L (146) 4L	
	Induction system (FI, Carb, etc.)	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	Sequential Fuel Injection	
	Compression ratio	9.0:1	9.0:1	9.0:1	9.5:1	9.5:1	
	SAE Net at RPM	Power kW (bhp)	90(120) @ 5200	90(120)@5200	90(120)@5200	112(150)@ 5200	112(150)@5200
		Torque N • m (lb. ft.)	176(130) @ 4000	176(130) @ 4000	176(130) @ 4000	203(150) @ 4400	203(150) @4400
Exhaust single, dual		Single	Single	Single	Single	Single	
<b>T R A N S</b>	Transmission/ Transaxle	MK7-Manual Transaxle 5-Speed	MN4-Automatic Transaxle 4-Speed	MD9-Manual Transaxle 3-Speed	MJ1-Manual Transaxle 5-Speed	MN4-Automatic Transaxle 4-Speed	
	Effective Final Drive / Axle Ratio (std. first)	3.58	3.63	3.18	3.94	3.91	

Model	Series Availability Code	Power Teams (A - B - C - D)	
		Standard	Optional
<b>CAVALIER</b>			
2-Door Notchback Coupe	1JC37	A	B,C
4-Door Notchback Sedan	1JC69	A	B,C
<b>CAVALIER "LS"</b>			
2-Door Convertible	1JF67	B	D,E
4-Door Notchback Sedan	1JF69	B	E
<b>CAVALIER "Z24"</b>			
2-Door Notchback Coupe	1JF37	D	E

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description **2.2 LITER L4 (133 CID)**  
 Engine Code **SEQUENTIAL FUEL INJECTION RPO LN2**

### Engine - General

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Inline Front, Transverse-OHV	
Manufacturer	General Motors Powertrain Division	
No. of cylinders	4	
Bore	89.0 mm ( 3.50 in.)	
Stroke	88.0 mm (3.46 in.)	
Bore Spacing (C / L to C / L)	99.0 mm (3.90 in.)	
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron, 42 (93), w/o Caps	
Cylinder block deck height	216.65 m (8.53 in.)	
Cylinder block length	443 mm (17.44 in.)	
Deck clearance (minimum) (above or below block)	.6 mm (.024 in.) Below	
Cylinder head material & mass kg. (lbs.)	Aluminum 9.7 kg (21.3 lbs)	
Cylinder head volume cm <sup>3</sup> (inches <sup>3</sup> )	32.8 (2.00)	
Cylinder liner material	No Liner	
Head gasket thickness (compressed)	1.50 (0.059)	
Minimum combustion chamber total volume cm <sup>3</sup> (inches <sup>3</sup> )	67.34 (4.11)	
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	-
Firing order	1-3-2-4	
Intake manifold material & mass kg. (lbs.)**	Aluminum 3.9 kg (8.6 lbs)	
Exhaust manifold material & mass kg. (lbs)**	Cast Iron 4.5 kg (10 lbs)	
Knock sensor (number & location)	One, Right Side Of Block	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine Mounts	Quantity	3-Automatic, 4-Manual
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	(2) Elastomeric (1) Hydrolastic - Automatic (3) Elastomeric (1) Hydrolastic - Manual
	Added isolation (sub-frame, crossmember, etc.)	No
Total dressed engine mass (wt) dry***	Automatic 138.50 (Dry) 142.20 (With Oil)	Manual 149.31 (Dry) 153.01 (With Oil)

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum 328 (11.57)
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### Engine - Camshaft

Location	In Block, Right Side	
Material & mass kg (weight, lbs.)	Assembled Steel	
Drive type	Chain / belt	Chain
	Width / pitch	19.3 x 9.5 mm (.76 x .37)

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

\*\* Finished state.

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

A/C Compressor Brackets & Bolts Radiator Pipe, Air Cleaner ASM., Ducts & Bolts Generator Brackets, Bolts & ACC Belt Starter Motor & Bolts Transaxle Brace, Flywheel Cover & Bolts, Exhaust Down pipe w/ Converter & Bolts EVAP EMIS Canister w/ Hoses, Module Powertrain Control

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description	2.4 LITER L4 (146 CID)
Engine Code	SEQUENTIAL FEUL INJECTION RPO LD9

### Engine - General

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	Inline, Front Transverse, DOHC Pent Roof	
Manufacturer	General Motors Powertrain	
No. of cylinders	4	
Bore	90 mm (3.54 in.)	
Stroke	94 mm (3.70 in.)	
Bore Spacing (C / L to C / L)	100 mm (3.94 in.)	
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron 52-16 kg (115 lbs)	
Cylinder block deck height	221.9 mm (8.74 in.)	
Cylinder block length	499.5 mm (19.66 in.)	
Deck clearance (minimum) (above or below block)	0	
Cylinder head material & mass kg. (lbs.)	Aluminum 8.96 kg (19.8 lbs)	
Cylinder head volume cm <sup>3</sup> (inches <sup>3</sup> )	59.5 cm <sup>3</sup> /Chamber (3.63 in <sup>3</sup> )	
Cylinder liner material	N/A	
Head gasket thickness (compressed)	1.2 mm (0.047 in.)	
Minimum combustion chamber total volume cm <sup>3</sup> (inches <sup>3</sup> )	130.09 cm <sup>3</sup> (7.94 in <sup>3</sup> )	
Cyl. no. system (front to rear)*	L. Bank	1-2-3-4
	R. Bank	
Firing order	1-3-4-2	
Intake manifold material & mass kg. (lbs.)**	Nylon 6-6 33% Glass Filled 1.29 (2.85 lbs)	
Exhaust manifold material & mass kg. (lbs)**	High Silicon Moly Cast Iron 6.35 kg (14 lbs)	
Knock sensor (number & location)	One -Side Rear of Block	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine Mounts	Quantity	3-Automatic 4- Manual
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	(2) Elastomeric (1) Hydolastic - Automatic; (3) Elastomeric (1) Hydrolastic -Manual
	Added isolation (sub-frame, crossmember, etc.)	No
Total dressed engine mass (wt) dry***	Automatic 186.65 (Dry) 190.75 (With Oil)	Manual 197.29 (Dry) 201.39 (With Oil)

### Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Hyper Eutectic 281.1 Alloy 345 g (12-17 oz)
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### Engine - Camshaft

Location	Dual Overhead Cams	
Material & mass kg (weight, lbs.)	Cast Iron 2.85 kg (6.28 lbs)	
Drive type	Chain / belt	Chain
	Width / pitch	3/8" Pitch Inverted Tooth 4x4

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

\*\* Finished state.

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

A/C Compressor Brackets & Bolts Radiator Pipe, Air Cleaner ASM., Ducts & Bolts Generator Brackets, Bolts & ACC Belts Starter Motor & Bolts, Transaxle Brace, Flywheel Cover & Bolts, , Exhaust Downpipe w/ Converter & Bolts , EVAP EMIS Canister w/ Hoses, And Module Powertrain Control

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95

## METRIC (U.S. Customary)

Engine Description **2.2 LITER L4 (133 CID)**  
 Engine Code **SEQUENTIAL FUEL INJECTION RPO LN2**

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard
Valves	Number intake / exhaust
	Head O.D. intake / exhaust

### Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel, .540 kg (1.91 lbs.)
Length (axes C/L to C/L)	141.95 mm (5.59 in.)

### Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Nodular Cast Iron, 14.4 kg (31.7 lbs.)
End thrust taken by bearing (no.)	4
Length & number of main bearings	5, 20.72 mm (.82 in.)
Seal (material, one, two piece design, etc.)	Front
	Rear

### Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	12-20 @ 3000
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 l (4.0 qt.)

### Engine - Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0°F.		
Injector nozzle	Type	
	Opening pressure kPa (psi)	
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant, oil to ambient air)		
Oil filter		

### Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

\* Finished State

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.4 LITER L4 (146 CID)  
 SEQUENTIAL FUEL INJECTION RPO LD9

### Engine - Valve System

Hydraulic lifters (std., opt., n.a.)		Standard	
Valves	Number intake / exhaust	2/2 per Cylinder	8/8 Total
	Head O.D. intake / exhaust	35.5 mm (1.4 in.)	29.0 mm (1.14 in.)

### Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Steel 0.662 kg (1.46 lbs)
Length (axes C/L to C/L)	145 mm

### Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Cast Iron	19 kg (41.9 lbs)
End thrust taken by bearing (no.)	3	
Length & number of main bearings	#1,2,4,5 - 28.6 mm (1.13 in.)#3 27.25 (1.09 in.)	
Seal (material, one, two piece design, etc.)	Front	One Piece Viton
	Rear	One Piece Viton

### Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	207 kPa (30 psi)	2000 RPM
Type oil intake (floating, stationary)	Stationary	
Oil filter system (full flow, part, other)	Full Flow	
Capacity of c/case, less filter-refill-L (qt.)	3.75 l (4 qt.)	

### Engine - Diesel Information (NOT APPLICABLE)

Diesel engine manufacturer		
Glow plug, current drain at 0°F.		
Injector nozzle	Type	
	Opening pressure kPa (psi)	
Pre-chamber design		
Fuel Injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant, oil to ambient air)		
Oil filter		

### Engine - Intake System (NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

\* Finished State



# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description **2.4 LITER L4 (146 CID)**  
 Engine Code **SEQUENTIAL FUEL INJECTION RPO LD9**

### Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Standard	
Coolant fill location (rad., bottle)		Surge Tank	
Radiator cap relief valve pressure kPa (psi)		15 PSI	
Circulation thermostat	Type (choke, bypass)	Wax	
	Starts to open at °C (°F)	82°C (180°F)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GMP 1000 pump rpm	8.0	
	Number of pumps	1	
	Drive (V-belt, other)	Chain	
	Bearing type	Double Row Ball Bearing	
	Impeller material	Steel	
Housing material		Cast Aluminum	
By-pass recirculation type (inter., ext.)		External	
Cooling System capacity	With heater - L (qt.)	9.2 L (9.72 qt.)	
	With air conditioner - L (qt.)	9.2 L (9.72 qt.)	
	Opt. equipment specify - L (qt.)		
Water jackets full length of cyl. (yes, no)		Yes	
Water all around cylinder (yes, no)		Yes	
Water jackets open at head face (yes, no)		Yes	
Radiator core	Std., A/C, HD	Standard A/C + Manual	Standard or A/C + Automatic
	Type (cross-flow, etc.)	Cross-Flow	
	Construction (fin & tube mechanical, braze, etc.)	Tube & Fin/Blazed Auminum	
	Material, mass kg (wgt., lbs.)	2.84 kg (6.3 lbs) Manual	3.14 kg (6.9 lbs) Automatic
	Width	660 mm (25.9 in)	
	Height	383 mm (15.1 in)	
	Thickness	16 mm (.63 in)	
	Fins per inch	20	20
Radiator end tank material		Plastic	
Fan	Std., elec., opt.	Elect	Electric, A/C
	Number of blades & type (flex, solid, material)	6 Solid Plastic	7, Solid Plastic
	Number & location (front, rear of radiator)	1 Rear	1 Rear
	Diameter & projected width	316	371
	Rabo (fan to crankshaft rev.)	Not Applicable	
	Fan cutout type	ECM Controlled	
	Drive type (direct, remote)	Direct-Electnc Motor	
	RPM at idle (elec.)	1800	
	Motor rating (wattage/elec.)	100 Watts	150 Watts
	Motor switch (type & location/elec.)	Engine Block	
	Switch point (temp./pressure/elec.)	On At 106° Deg C, Off At 103° C	
Fan shroud (material)	Bracket	Plastic	

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

**2.2 LITER L4 (133 CID)  
 SEQUENTIAL FUEL INJECTION RPO LN2**

### Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		A/C Rochester Products
Carburetor no. of barrels		None
Idle A/F mix.		Computer Controlled
Fuel injection	Point of injection (no.)	Entering Cylinder Head (Four)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	294 - 306 (43 - 44 )
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	Computer Controlled
	Automatic	Computer Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		None
Air cleaner type		Single Snorkel
Fuel filter (type/location)		Replaceable/ Inline Rear Of Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Fuel Tank
	Pressure range kPa (psi)	Depends on Flow Rate and System Voltage
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	62.4 (16.5) @ 300 (51)

### Fuel Tank

Capacity refill L (gallons)		57.5 L (15.2 gal.)
Location (describe)		Rear Center Underside, R. H. Rear Quarter Panel
Attachment		Underbody Strap
Material & Mass kg. (weight lbs.)		Steel
Filler pipe	Location & material	Right Rear Quarter Panel - Steel
	Connection to tank	Hoses
Fuel line (material)		Steel / Multi-Layer Nylon 12
Fuel hose (material)		Rubber
Return line (material)		Steel / Multi-Layer Nylon 12
Vapor line (material)		Steel / Nylon 12
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

**2.4 LITER L4 (146 CID)  
 SEQUENTIAL FUEL INJECTION RPO LD9**

### Engine - Fuel System (See Supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used.)

Induction type: carburetor, fuel injection system, etc.		Fuel Injection
Manufacturer		Dephi Automotive Systems
Carburetor no. of barrels		N/A
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Injectors (4)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	300 kPa (43.5 psi)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	900 RPM
	Automatic	600 RPM
Intake manifold heat control (exhaust or water thermostatic or fixed)		N/A
Air cleaner type		Replacement Paper Element
Fuel filter (type/location)		Inline/Replacement
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	Depend On Flow Rate And System Voltage
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	62.4 (16.5) @ 300 (51)

### Fuel Tank

Capacity refill L (gallons)		57.6 L (15.2 gal)
Location (describe)		Rear Center Underside, R.H. Rear Quarter Panel
Attachment		Underbody Strap
Material & Mass kg. (weight lbs.)		Steel
Filler pipe	Location & material	Right Rear Quarter Panel - Steel
	Connection to tank	Hoses
Fuel line (material)		Steel/ Multi-Layer Nylon 12
Fuel hose (material)		Rubber
Return line (material)		Steel/ Multi-Layer Nylon 12
Vapor line (material)		Steel/ Nylon 12
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	
	Location & material	
	Attachment	
	Selector switch or valve	
Separate fill		

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.2 LITER L4 (133 CID)  
 SEQUENTIAL FUEL INJECTION RPO LN2

### Vehicle Emission Control

Type (air injection, engine modifications, other)		CCC Control	
Exhaust Emission Control	Air injection	Pump or pulse	Not Applicable
		Driven by	"
		Air distribution (head, manifold, etc.)	"
		Point of entry	"
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Negative Back Pressure EGR Valve with Integral Transducer And Single Shaft Cross Hole
		Exhaust source	#4 Cylinder At Cylinder Head
		Point of exhaust injection (spacer, carburetor, manifold, other)	Inlet Manifold
	Catalytic Converter	Type	3 - Way Monolith
		Number of	1
		Location(s)	Mounted To Center Underbody
Volume L (in³)		1.8 (110)	
Substrate type		Monolith - Ceramic	
	Noble metal type	Platinum (Pt.), Palladium (Pd), Rhodium (Rh.)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Induction System
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		Intake Manifold
	Air inlet (breather cap, other)		Air Cleaner Outlet Duct
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel Tank	Canister
		Carburetor	—
	Vapor storage provision		Charcoal
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

### Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single
○	Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.)	409 Aluminized Stainless Steel Muffler ASM = 9.7 kg (21.3 lbs) 1, Reverse Flow
○	Resonator no., type, & volume (liters)	None
Exhaust pipe	Branch o.d., wall thickness	None
	Main o.d., wall thickness	41.3, 1.42 mm (1.6, .056 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel 3.64 kg (8.02 lbs)
Intermediate pipe	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in.)
	Material & Mass kg. (weight lbs.)	Stainless Steel 409 (MASS See Muffler ASM)
Tail pipe	o.d. & wall thickness	44.5 x 1.1 mm (1.75 x .043 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel 409 Aluminized (MASS See Muffler ASM)

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.4 LITER L4 (146 CID)  
 SEQUENTIAL FUEL INJECTION RPO LD9

### Vehicle Emission Control

Type (air injection, engine modifications, other)		Engine Modifications	
Exhaust Emission Control	Air injection	Pump or pulse	N/A
		Driven by	N/A
		Air distribution (head, manifold, etc.)	N/A
		Point of entry	N/A
	Exhaust Gas	Type (controlled flow, open orifice, other)	Controlled Flow EGR Valve
		Exhaust source	#4 Clinder Exhaust Runner
	Recirculation	Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold
		Catalytic Converter	Type
	Number of		One
	Locations(s)		Underfloor
Volume L (in <sup>3</sup> )	2.67 L (163 in <sup>3</sup> )		
Substrate type	Monolith - Ceramic		
	Noble metal type	Platinum (Pt), Palladium (Pd.), Rhodium (Rh)	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		Positive Vent System w/ Orifice Metering to Intake
	Energy source (manifold vacuum, carburetor, other)		Manifold Vacuum
	Discharges to (intake manifold, other)		Intake
	Air inlet (breather cap, other)		N/A
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel Tank	Canister
		Carburetor	N/A
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	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), Muffler volume (liters), Material & Mass kg. (weight lbs.)	409 Aluminized Stainless Steel Muffler ASM = 10.9 kg (24.0 lbs) 1, Reverse Flow
○	Resonator no., type, & volume (liters)	1, Bottle w/Baffle
Exhaust pipe	Branch o.d., wall thickness	None
	Main o.d., wall thickness	44.45, 1.90 mm (1.75, .075 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel
Intermediate pipe	o.d. & wall thickness	50.8 x 1.37 mm (2.0 x .054 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel - 409 (MASS see Muffler ASM)
Tail pipe	o.d. & wall thickness	50.8 x 1.1 mm (2.0 x .043 in)
	Material & Mass kg. (weight lbs.)	Stainless Steel - 409 Aluminized (MASS See Muffler ASM)

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.2 LITER L4 (133 CID)  
 SEQUENTIAL FUEL INJECTION RPO LN2

## Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Standard Isuzu/Japan (MK7)
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	Optional, General Motor Powertrain/ USA
Automatic overdrive (manufacturer/country)	MD9 = 3 Speed      MN4 = 4 Speed

## Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.91
	2nd	2.18
	3rd	1.45
	4th	1.03
	5th	0.74
	6th	
	Reverse	3.58
Synchronous meshing (specify gears)		1-5
Shift lever location		Floor
Trans. case material & mass kg. (lbs.)*		Aluminum 36.5 kg (80.5 lbs)
Lubricant	Capacity L (pt.)	1.9 L (4.0 pt.)
	Type recommended	Synchromesh Transmission Fluid (STF)

## Clutch (Manual Transmission)

Clutch manufacturer		Daikin
Clutch type (dry, wet, single, multiple disc)		Dry Disc, Single
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	133.4 (30.0)
	Released	115.6 (26.0)
Assist (spring, power/percent, nominal)		Over Center Spring
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		5688 (1279)
Clutch facing	Facing mfr. & material coding	Valeo F202
	Facing material & construction	F202
	Rivets per facing	16
	Outside x inside dia. (nominal)	215.0 x 150.0 (8.46 x 5.91)
	Total eff. area cm <sup>2</sup> (in. <sup>2</sup> )	186.3 (28.8)
	Thickness (pressure plate side/fly wheel side)	3.5 (.14) Pressure Plate Side, 3.2 (.13) Flywheel Side
	Rivet depth (pressure plate side/fly wheel side)	1.3 (0.05)/ 1.2 (0.05)
Engagement cushion method		Driven Plate Wave Spoke Springs
Release bearing type & method lub.		Self Centering, Angular Contact Ball Bearing - Prepacked & Sealed
Torsional damping method, springs, hysteresis		Coil Springs With Non - Metal Friction Control

\* Includes shift linkage, lubricant, and clutch housing. If other specify.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.4 LITER L4  
 SEQUENTIAL FUEL INJECTION RPO LD9

### Transmissions/Transaxle (Std., Opt., N.A.)

Manual 4-speed (manufacturer/country)	
Manual 5-speed (manufacturer/country)	Isuzu/ Japan MJ1
Manual 6-speed (manufacturer/country)	
Automatic (manufacturer/country)	
Automatic overdrive (manufacturer/country)	

### Manual Transmission/Transaxle

Number of forward speeds		5
Gear ratios	1st	3.73
	2nd	2.18
	3rd	1.33
	4th	.92
	5th	.74
	6th	
	Reverse	3.58
Synchronous meshing (specify gears)		All Forward
Shift lever location		Floor
Trans. case material & mass kg. (lbs.)*		Aluminum 36.5 kg (80.5 lbs)
Lubricant	Capacity L (pt.)	4
	Type recommended	SFT

### Clutch (Manual Transmission)

Clutch manufacturer		Daikin
Clutch type (dry, wet, single, multiple disc)		Dry Disc Single
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	133.4 (30.0)
	Released	115.6 (26.0)
Assist (spring, power/percent, nominal)		Over Center Spring
Type pressure plate springs		Diaphragm
Total spring load (nominal) N (lbs.)		5888 1279
Clutch facing	Facing mfr. & material coding	Valoe F202
	Facing material & construction	F202
	Rivets per facing	16
	Outside x inside dia. (nominal)	225.0 x 150.0
	Total eff. area cm <sup>2</sup> (in. <sup>2</sup> )	221
	Thickness (pressure plate side/fly wheel side)	3.5 (.14) Pressure Plate Side, 3.2 (.13) Flywheel Side
	Rivet depth (pressure plate side/fly wheel side)	1.3 (.05)/ 1.2 (.05)
Engagement cushion method		Driven Plate Wave Spoke Springs
Release bearing type & method lub.		Self Centering Angular Contact Ball Prepacked & Sealed
Torsional damping method, springs, hysteresis		Coil Springs with Non-Metal Friction Control

\* Includes shift linkage, lubricant, and clutch housing. If other specify.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description 2.2 LITER L4 (133 CID)  
 Engine Code SEQUENTIAL FUEL INJECTION RPO LN2

### Automatic Transmission/Transaxle

Trade Name		GMPT 3T40 Transaxle Assembly (MD9)
Type and special features (describe)		3 Speed Front Wheel Drive Automatic Transaxle with Torque Converter Clutch
Shift mechanics		Hydraulic
Gear selector	Location (column, floor, other)	Floor
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	Yes
Gear ratios	1st	2.84
	2nd	1.60
	3rd	1.00 (Converter Clutch Engagement)
	4th	Not Applicable
	5th	"
	6th	"
	Reverse	2.07
	Final drive ratio	2.84; Effective Final Drive Ratio = 3.18
Max. upshift vehicle speed - drive range km/h (mph)		2 - 3 = 143 (89)
Max. upshift engine speed RPM		6200
Max. kickdown speed - drive range km/h (mph)		3 - 2 = 143 (85)
Min. overdrive speed km/h (mph)		Depends On Axle Application
Torque converter	Type	Lock-Up
	Torus design	Yes
	Number of elements	3
	Max. ratio at stall	2.48
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 (9.8)
	Capacity factor "K"	203
Pump type		Positive Variable Displacement Vane
Lubricant	Capacity refill L (pt.)	8.5 L (17.85 pt.) Dry Transmission, Original Filling
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard Integral Part Of Radiator
Transmission mass kg (lbs.) & case material**		65.7 kg (144.54 lbs.) Dry Weight

### All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

\* Input speed +  $\sqrt{\text{torque}}$

\*\* Dry weight including torque converter. If other, specify.



# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description **2.4 LITER L4**  
 Engine Code **SEQUENTIAL FUEL INJECTION RPO LD9**

### Automatic Transmission/Transaxle

Trade Name		4T40E Transaxle Assembly (MN4)	
Type and special features (describe)		4-Speed Front Wheel Drive Electronically Controlled Transaxle with Torque Converter Clutch	
Shift mechanics		Hydraulic Clutches/ Electronic Controls	
Gear selector	Location (column, floor, other)	Floor	
	Ltr./No. designation (e.g. PRND21)	P-R-N- <b>D</b> -D-2-1	
	Shift interlock (yes, no, describe)	Yes	
Gear ratios	1st	2.96	
	2nd	1.63	
	3rd	1.0	
	4th	.68	
	5th		
	6th		
	Reverse	2.13	
Final drive ratio		3.29 Effective Final Drive = 3.91	
Max. upshift vehicle speed - drive range km/h (mph)		168 (104.5)	
Max. upshift engine speed RPM		6500	
Max. kickdown speed - drive range km/h (mph)		103.0 (174)	
Min. overdrive speed km/h (mph)		(30 mph) 50	
Torque converter	Type	Lock-Up	
	Torus design	Yes	
	Number of elements	3	
	Max. ratio at stall	2.48	
	Type of cooling (air, liquid)	Liquid	
	Nominal diameter	245mm (9.8)	
Capacity factor "K"		203K	
Pump type		Variable Displacement Vane	
Lubricant	Capacity refill L (pt.)	7L (14.7pt.)(Bottom Pan Service) 10L (21pt.) Complete Overhaul	
	Type recommended	Dexron III	
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard Integral W/Radiator	
Transmission mass kg (lbs.) & case material**		74.7 kg (164.68 lbs) Dry 85.0kg (187.38 lbs) Wet	

### All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

\* Input speed +  $\sqrt{\text{torque}}$

\*\* Dry weight including torque converter. If other, specify.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description	2.2 LITER L4 (133 CID)
Engine Code	SEQUENTIAL FUEL INJECTION RPO LN2

### Automatic Transmission/Transaxle

Trade Name	4T40E Transaxle Assembly (MN4)	
Type and special features (describe)	4 Speed Automatic w/ Overdrive & Torque Converter Clutch	
Shift mechanics	Hydraulic Clutches/ Electronic Controls	
Gear selector	Location (column, floor, other)	Floor
	Ltr./No. designation (e.g. PRND21)	P-R-N-D-2-1
	Shift interlock (yes, no, describe)	Yes
Gear ratios	1st	2.96
	2nd	1.63
	3rd	1.0
	4th	.68
	5th	
	6th	
	Reverse	2.13
	Final drive ratio	3.05 Effective Final Drive = 3.63
Max. upshift vehicle speed - drive range km/h (mph)	145 (90)	
Max. upshift engine speed RPM	6500	
Max. kickdown speed - drive range km/h (mph)	137 (85)	
Min. overdrive speed km/h (mph)	45 (28)	
Torque converter	Type	Lock Up
	Torus design	Yes
	Number of elements	3
	Max. ratio at stall	2.48
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm (9.8)
Capacity factor "K"	203 K	
Pump type	Variable Displacement Vane	
Lubricant	Capacity refill L (pt.)	7L (14.7 pt) (Bottom Pan Service) 10 L (21pt) Complete Overhaul
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)	Standard Integral w/ Radiator	
Transmission mass kg (lbs) & case material	74.7 kg (164.64 lbs) Dry 85.0 kg (187.38 lbs) Wet	

### All Wheel / 4 Wheel Drive (NOT APPLICABLE)

Description & type (part-time, full-time, 2/4 shift while moving, mechanical, elect., chain/gear, etc.)		
Transfer case	Manufacturer and model	
	Type and location	
Low-range gear ratio		
System disconnect (describe)		
Center differential	Type (bevel, planetary, w or w/o viscous bias, torsen, etc.)	
	Torque split (% front/rear)	

\* Input speed +  $\sqrt{\text{torque}}$

\*\* Dry weight including torque converter. If other, specify.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

2.2 LITER L4 (133 CID)  
 SEQUENTIAL FUEL INJECTION RPO LN2

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

Effective final drive ratio (or overall top gear ratio)		MK7 (5 Speed Manual)	MN4 4T40E (4-Speed Automatic)	MD9
Transfer ratio and method (chain, gear, etc.)				
Front drive unit	Ring gear o.d.			
	No. of teeth	Pinion		
		Ring gear		

### Front Drive Unit

Description (integral to trans., etc.)		Planetary Final Drive - Integral with Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	-
	Offset	-
No. of differential pinions		2
Pinion / differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	-
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	See Automatic Transmission Spec.
	Type recommended	-

### Axle Shafts - Front Wheel Drive

Manufacturer and number used		Delphi Saginaw Automotive Engineering		
Type (straight, solid bar, tubular, etc.)	Left	Straight - Solid		
	Right	Straight - Solid		
Outer diam. x length* x wall thickness	Manual Transaxle	Left	23.9 x 335.0 mm	
		Right	23.9 x 694.6 mm	
	Automatic transaxle	Left	27.1 x 313.0 mm	23.9 x 320.0 mm
		Right	27.1 x 313.0 mm	23.9 x 389.6 mm
	Optional transaxle	Left		
		Right		
Slip yoke	Type			
	Number of teeth			
	Spline o.d.			
Universal joints	Make and mfg. no.	Inner	Delphi Saginaw	
		Outer	Delphi Saginaw	
	Number used		Inboard & Outboard On Each Half Shaft Assembly	
	Type, size, plunge	Inner	Tripot - 61.0mm Stroke	Free - Motion - 61.0 mm Stroke
		Outer	Rzeppa - Fixed Center	
	Attach (u-bolt, clamp, etc.)		Inboard Joint - Retaining Ring / Outboard Joint - Washer & Nut	
Bearing	Type (plain, anti-friction)	Inner - Ball & Roller Outer - Ball		
	Lubrication (fitting, prepack)	Prepacked		
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm - Upper Mac Pherson		
Torque taken through (torque tube, arms or springs)		Engine Mounting System		

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

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (\*) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description  
 Engine Code

**2.4 LITER L4 (146 CID)  
 SEQUENTIAL FUEL INJECTION RPO LD9**

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

Effective final drive ratio (or overall top gear ratio)		MJ1 (5 Speed Manual)	
Transfer ratio and method (chain, gear, etc.)			
Front drive unit	Ring gear o.d.		
	No. of teeth	Pinion	
		Ring gear	

### Front Drive Unit

Description (integral to trans., etc.)		Planetary Final Drive Integral with Transmission
Limited slip differential (type)		Not Applicable
Drive pinion	Type	
	Offset	
No. of differential pinions		2
Pinion / differential	Adjustment (shim, etc.)	Not Applicable
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	See Automatic Transmission Spec.
	Type recommended	

### Axle Shafts - Front Wheel Drive

Manufacturer and number used		Delphi Saginaw Automotive Engineering	
Type (straight, solid bar, tubular, etc.)	Left	Straight - Solid	
	Right	Straight - Solid	
Outer diam. x length* x wall thickness	Manual Transaxle	Left	27.1 x 331.0 mm
		Right	27.1 x 331.0 mm
	Automatic transaxle	Left	
		Right	
	Optional transaxle	Left	
		Right	445.3
Slip yoke	Type		
	Number of teeth		
	Spine o.d.		
Universal joints	Make and mfg. no.	Inner	Delphi Saginaw
		Outer	Delphi Saginaw
	Number used		Inboard and Outboard on Each Halfshaft Assembly
	Type, size, plunge	Inner	Free Motion - 61.0 Stroke
		Outer	Rzeppa - Fixed Center
	Attach (u-bolt, clamp, etc.)		Inboard Joint - Retaining Ring/ Outboard Joint - Washer and Nut
	Bearing	Type (plain, anti-friction)	Inner - Ball and Roller Outer - Ball
Lubrication (fitting, prepack)		Prepacked	
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm - Upper Mac Pherson	
Torque taken through (torque tube, arms or springs)		Engine Mounting System	

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

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description 2.2 LITER L4 (133 CID)  
 Engine Code SEQUENTIAL FUEL INJECTION RPO LN2

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

Axle ratio (or overall top gear ratio)		
Ring gear o.d.		
No. of teeth	Pinion	
	Ring gear	

### Rear Axle Unit (NOT APPLICABLE)

Description		
Limited slip differential (type)		
Drive pinion	Type	
	Offset	
No. of differential pinions		
Pinion / differential	Adjustment (shim, etc.)	
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	
	Type recommended	

### Propeller Shaft - Rear Wheel Drive (NOT APPLICABLE)

Manufacturer		
Type (straight tube, tube-in-tube, internal-external damper, etc.)		
Outer diam. x length* x wall thickness	Manual 4-speed transmission	
	Manual 5-speed transmission	
	Manual 6-speed transmission	
	Overdrive	
	Automatic transmission	
Intermediate bearing	Type (plain, anti-friction)	
	Lubrication (fitting, prepack)	
Slip yoke	Type	
	Number of teeth	
	Spine o.d.	
Universal joints	Make and mfg. no.	Front
		Rear
	Number used	
	Type (ball and trunnion, cross)	
	Rear attach (u-bolt, clamp, etc.)	
	Bearing	Type (plain, anti-friction)
Lubrication (fitting, prepack)		
Drive taken through (torque tube, arms or springs)		
Torque taken through (torque tube, arms or springs)		

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

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Engine Description 2.4 LITER L4 (146 CID)  
 Engine Code SEQUENTIAL FUEL INJECTION RPO LD9

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

Axle ratio (or overall top gear ratio)		
Ring gear o.d.		
No. of teeth	Pinion	
	Ring gear	

### Rear Axle Unit (NOT APPLICABLE)

Description		
Limited slip differential (type)		
Drive pinion	Type	
	Offset	
No. of differential pinions		
Pinion / differential	Adjustment (shim, etc.)	
	Bearing adjustment	
Driving wheel bearing (type)		
Lubricant	Capacity L (pt.)	
	Type recommended	

### Propeller Shaft - Rear Wheel Drive (NOT APPLICABLE)

Manufacturer		
Type (straight tube, tube-in-tube, internal-external damper, etc.)		
Outer diam. x length* x wall thickness	Manual 4-speed transmission	
	Manual 5-speed transmission	
	Manual 6-speed transmission	
	Overdrive	
Intermediate bearing	Automatic transmission	
	Type (plain, anti-friction)	
Slip yoke	Lubrication (fitting, prepack)	
	Type	
	Number of teeth	
Universal joints	Spline o.d.	
	Make and mfg. no.	Front
		Rear
	Number used	
	Type (ball and trunnion, cross)	
	Rear attach (u-bolt, clamp, etc.)	
Bearing	Type (plain, anti-friction)	
	Lubrication (fitting, prepack)	
Drive taken through (torque tube, arms or springs)		
Torque taken through (torque tube, arms or springs)		

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

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

ALL

### Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available	N/A	
	Manual/automatic control	N/A	
	Type (air/hydraulic)	N/A	
	Primary/assist spring	N/A	
	Rear only/4 wheel leveling	N/A	
	Single/dual rate spring	N/A	
	Single/dual ride heights	N/A	
	Provision for jacking	Body Jack & Pads On Rockers	
Shock absorber damping controls	Standard/option/not available	N/A	
	Manual/automatic control	N/A	
	Number of damping rates	N/A	
	Type of actuation (manual/electric motor/air, etc.)	N/A	
	Sensors	Lateral acceleration	N/A
		Deceleration	N/A
Acceleration		N/A	
Road surface		N/A	
Shock absorber (front & rear)	Type	Front - MacPherson Strut; Rear - Double Acting Hydraulic	
	Make	Dephi Chassis Systems	
	Piston diameter	Front: 32 (1.26) Rear: 25 (.98)	
	Rod diameter	Front 22 (.87) Rear: 13 (51)	

### Suspension - Front

Type and description		MacPherson Strut With Coil Spring			
Travel	Full jounce (define load condition)	85 (3.2) (Max Effective From Curb)			
	Full rebound	83 (3.1) (Max Effective From Curb)			
Spring	Type (coil, leaf, other & material)	Coil, Steel			
	Insulators (type & material)	Top & Bottom - Rubber			
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Spring Computer Selected - Varies With Option Content Design Hgt      Body I.D.      Bar dia Range      Bar Length Range 191.6 mm (7.5)      88-123.5 mm (4.8)      13.5 0 14.2 mm (.55)      2510-2630 mm (103.5)			
	Spring rate N/mm (lb./in.)	27 mm (1.06) & 29 mm (1.14) Base		31 mm (1.22) Uplevel	
	Rate at wheel N/mm (lb./in.)	31 (1.2) N/mm			
Stabilizer	Type (link, linkless, frameless)	Link			
	Material & O.D. bar/tube, wall thickness	Steel: 18.0 mm (0.74) Base		22.0 mm (0.79) Uplevel	

### Suspension - Rear

Type and description		Trailing Tubular Control Arms With Twist Beam				
Travel	Full jounce (define load condition)	110 mm (4.3) From Curb				
	Full rebound	78 mm (3.1) From Curb				
Spring	Type (coil, leaf, other & material)	Coil, Steel				
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	Spring Computer Selected - Varies With Option Content Design Hgt      Body I.D.      Bar dia Range      Bar Length Range 191.8 mm (7.5)      105 mm (4.1)      11.4-12.6 mm (.49)      2500-2700 mm (106.2)				
	Spring rate N/mm (lb./in.)	19 (.74) N/mm & 21 (.82) N/mm (Base)				
	Rate at wheel N/mm (lb./in.)	22 (.86) N/mm (Base)				
	Insulators (type & material)	Top - Rubber				
	If leaf	No. of leaves	-			
		Shackle (comp. or tors.)	-			
Stabilizer	Type (link, linkless, frameless)	Linkless				
	Material & O.D. bar/tube, wall thickness	None (Base)		18MM Solid (Uplevel)		
Track bar (type)		-				

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/Description And/Or  
 Engine Code/Description

ALL

### Brakes - Service

Description		Power Assisted Hydraulic Brakes	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Standard - Disc	
	Rear (disc or drum)	Standard - Drum	
Valving type (proportion, delay, metering, other)		Proportioning, Diagonal Split Circuit	
Power brake (std., opt., n.a.)		Standard	
Booster type (remote, integral, vac., hyd., etc.)		Tandem Vacuum	
Vacuum	Source (inline, pump, etc.)	Inline	
	Reservoir (volume in. <sup>3</sup> )	None	
	Pump-type (elec., gear or belt driven)	Not Applicable	
Traction assist	Operational speed range	All Speed Rangest	
	Type (engine or brake intervention)	Powertrain Management	
Antilock device	Front/rear (std., opt., n.a.)	Standard	
	Manufacturer	Delphi Chassis Division - ABS VI	
	Type (electronic, mech.)	Electronic	
	Number sensors or circuits	4	
	Number antilock hydraulic circuits	3	
	Integral or add-on system	Add On	
	Yaw control (yes, no)	Yes	
Hyd. power source (elec., vac., mtr., pwr., strg.)		Electric Motor For Each Circuit	
Effective area cm <sup>2</sup> (in. <sup>2</sup> )*		204 (31.7) Front	324.1 (50.2) Rear
Gross Lining area cm <sup>2</sup> (in. <sup>2</sup> )** (F/R)		204 (31.7) Front	324.1 (50.2) Rear
Swept area cm <sup>2</sup> (in. <sup>2</sup> )** (F/R)		1175 (182.2) Front	556 (86.2) Rear
Rotor	Outer working diameter	F/R	Front - 259.5 (10.2)
	Inner working diameter	F/R	Front - 149.6 (5.9)
	Thickness	F/R	Front - 20 (.79)
	Material & type (vented/solid)	F/R	Front Vented Cast Iron
Drum	Diameter & width	F/R	Rear - 200 x 45 mm (7.87 x 1.77 in.)
	Type and material	F/R	Cast Iron
Wheel cylinder bore		Front - 57 mm (2.24 in.)	Rear - 17.5 (.69 in.)
Master cylinder	Bore/stroke	F/R	Bore - 22.2 mm (.874 in.) Stroke - 35.7 mm (1.41 in.)
Pedal arc ratio		3.00:1	
Line press. at 445 N (100 lb.) pedal load [kPa (psi)]		1600 PSI Max	
Lining clearance		F/R	Both - Self Adjusting
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)	Integrally Molded - Inboard And Outboard
		Rivet Size	Not Applicable
		Manufacturer	Delphi Chassis Division
		Lining code *****	130 EE
		Material	Semi-Metallic
		Size	Primary or out-board 124 x 46 x 8.68mm (4.88 x 1.81 x 0.34 in.) Secondary or in-board 124 x 46x 9.68mm (4.88 x 1.81 x 0.38 in.)
	Shoe thickness (no lining)	4.85mm (0.19 in)	
	Rear wheel	Bonded or riveted (rvts/seg.)	Riveted
		Manufacturer	Delphi Chassis Division
		Lining code *****	234 FE
		Material	Organic
		Size	Primary or out-board 167.9 x 44.2 x 6.6 mm (6.602 x 1.728 x .236 in.) Secondary or in-board 198.8 x 44.2 x 7.2 mm (7.638 x 1.728 .28 in.)
		Shoe thickness (no lining)	2.75 mm (.11 in.)

\* Excludes rivet holes, grooves, chamfers, etc. \*\* Includes rivet holes, grooves, chamfers, etc.  
 \*\*\* Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)  
 (Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)  
 \*\*\*\* For drum brakes includes length x width x thickness. \*\*\*\*\*Manufacturer I.D., catalog for formulation designation and coefficient of friction classification.



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ALL

### Tires And Wheels (Standard)

Tires	Size (service description)		P195/70R14
	Type (bias, radial, steel, nylon, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	210 kPa (30 psi)
		Rear kPa (psi)	210 kPa (30 psi)
Rev./mile at 70 km/h (45 mph)		842	
Wheels	Type & material		Stamped/Steel
	Rim (size & flange type)		14 x 6J
	Wheel offset		47
	Attachment	Type (bolt or stud & nut)	Stud
		Circle diameter	100 mm
Number & size		5-12 mm	
Spare	Tire and wheel		T115/70D14 Wheel Diameter 14 x 4, Inflation 420 kPa (60 psi)
	Storage position & location (describe)		Under Deck Of Luggage Compartment

### Tires And Wheels (Optional)

Tire size (service description)		P195/65R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		15 x 6J x 47
Tire size (service description)		P205/55R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Aluminum
Rim (size, flange type and offset)		16 x 6J x 47
Tire size (service description)		P195/65R15
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Stamped/Steel
Rim (size, flange type and offset)		15 x 6J x 47
Tire size (service description)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Spare tire and wheel size		
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)		

### Brakes - Parking

Type of control		Hand Lever Asm - Self Adjust
Location of control		Between Front Seats
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	Not Applicable
	Drum diameter	-
	Lining size (length x width x thickness)	-

# AAMA Specifications

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## METRIC (U.S. Customary)

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ALL

### Steering

Manual (std., opt., n.a.)		Not Applicable		
Power (std., opt., n.a.)		Standard		
Speed-sensitive (std., opt., n.a.)				
4-wheel steering (std., opt., n.a.)				
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt (Optional)		
	Manufacturer	Delphi Saginaw Steering System		
	(std., opt., n.a.)	Optional		
Wheel diameter** (W9) SAE J1100	Manual	None		
	Power			
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)	10.85 (35.6)	
	Inside rear	Wall to wall (l. & r.)		
		Curb to curb (l. & r.)		
Scrub Radius*		-4.23 (14" Tires)		
Manual	Gear	Type	Not Applicable	
		Manufacturer		
	Ratios	Gear		
		Overall		
No. wheel turns (stop to stop)				
Power	Type (coaxial, elec. hyd., etc.)		Hydraulic	
	Manufacturer		Delphi Saginaw Steering Systems	
	Gear	Type	Rack & Pinion	
		Ratios	Gear	-
			14.7:1 (Base)	15.7:1 (Uplevel)
	Pump (drive)		Belt Off Crankshaft Pulley (LN2)	Direct Drive Off Crankshaft (LD9)
No. wheel turns (stop to stop)		2.6 Base	2.8 (Uplevel)	
Linkage	Type		End Take - Off Tie Rods, Rack & pinion	
	Location (front or rear of wheels, other)		Rear	
	Tie rods (one or two)		2	
Steering axis	Kingpin inclination (deg.)		12.0°	
	Bearings (type)	Upper	Ball Bearings	
		Lower	Ball Joint	
		Thrust	Incorporated In Upper Bearing	
Steering spindle/knuckle & joint type				

\* The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.  
 \*\* See Page 23.

# AAMA Specifications

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Model Code/Description And/Or  
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ALL

### Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	Not Adjustable
		Camber (deg.)	-2° (+/-) .7 Cross Car Must Be Within 1.0
		Toe-in outside track mm (in.)	.10° (+/-) .20° Sum (0 mm (+/-) 1.5 mm) 0° +/- .2 (LD2/FE2 & Convertible)
	Service reset*	Caster (deg.)	Not Adjustable
		Camber (deg.)	-2° (+/-) .7 Cross Car Must Be Within 1.0
		Toe-in mm (in.)	.10° (+/-) .20° Sum (0 mm (+/-) 1.5 mm) 0° +/- .2 (LD2/FE2 & Convertible)
	Periodic M.V. inspection	Caster (deg.)	Not Adjustable
		Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-.25° +/- .25°
		Toe-in outside track mm (in.)	.20° +/- .35°
	Service reset*	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable
	Periodic M.V. insp.	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable

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

### Electrical - Instruments and Equipment Gage

Speedometer	Type (analog, digital, std., opt.)	Analog Electric (Standard)	
	Trp odometer (std., opt., n.a.)	Gage Only (Optional)	
Head-up display	Standard, optional, not available		Not Available
	Type	Secondary, opto-electronic	Not Available
	Speedometer	Digital	Not Available
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges	Not Available
	Brightness control	Day / night mode, adjustable	Not Available
EGR maintenance indicator		Not Available	
Charge indicator	Type	Tell - Tale Warning Lamp	
	Warning device (light, audible)	Lamp	
Temperature indicator	Type	Gauge	
	Warning device (light, audible)	Ck Gauge Light	
Oil pressure indicator	Type	Tell - Tale Warning Lamp	
	Warning device (light, audible)	Lamp	
Fuel indicator	Type	Gauge	
	Warning device (light, audible)	Ck Gauge Tell - Tale	
Windshield wiper	Type (standard)	Electric 2-Speed w/ Fixed Delay Pulse	
	Type (optional)	Pulse Wiper Variable Delay (CD4)	
	Blade length	6890.0 (1068.0) CPE	
	Swept area cm <sup>2</sup> (in. <sup>2</sup> )	6856.9 (1062.8) SDN	
Windshield washer	Type (standard)	Electric Pump MTD. On Reservoir Bottle, Wet Arm	
	Type (optional)	None	
	Fluid level indicator (light, audible)	None	
Rear window wiper, wiper/washer (std., opt., n.a.)		Not Available	
Horn	Type	Electro-Mechanical (Air Column)	
	Number used	1 (F Note)	
Other	(UH8) Uplevel Gage Cluster Includes, Tachometer, Tell-Tale Includes, Parking Brake And Brake Failure, Fasten Belt, Upshift, Check Engine, Low Coolant, High Beam, Left And Right Turn, ABS, Airbag, Check Oil, and Theft System		

# AAMA Specifications

Vehicle Line CAVALIER  
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## METRIC (U.S. Customary)

Engine Code/Description 2.2 LITER L4 (133 CID)  
SEQUENTIAL FUEL INJECTION RPO LN2

### Electrical - Supply System

Battery	Manufacturer	Delphi - E	
	Model, std., (opt.)	Standard - 19000670	Optional - 19000672
	Voltage	12	
	Amps at 0° F. cold crank	525	600
	Minutes-reserve capacity	90	
	Amps/hrs. -20 hr. rate	54	
	Location	Under Hood Front	
Alternator	Manufacturer	Delphi - E	
	Rating (idle/max. rpm)	42/105	
	Ratio (alt. crank/rev.)	2.64:1	
	Output at idle (rpm, park)	38 Amps @ 93°C - 600 RPM	
	Optional (type & rating)	None	
Regulator	Type	Integral To Alternator	

### Electrical - Starting System

Motor	Manufacturer	Delco Remy	
	Current drain _____ °C (°F)	329 Amps	
	Power rating kw (hp)	1.4 kw (1.9 hp.)	
Motor drive	Engagement type	Solenoid Operated Shift Lever	
	Pinion engages from (front, rear)	Front	

### Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Elect-Direct Ignition (Std) - Cntl Mod w/2 Integral Coils & 1 Remt. Timing Sen		
	Other (specify)	--		
Coil	Manufacturer	Delco Remy		
	Model	1103902		
	Current	Engine stopped - A	Less Than 100 ma	
		Engine idling - A	Less Than 1.5 AMP (Average)	
Spark plug	Manufacturer	AC Spark Plug		
	Model	41-908		
	Thread (mm)	14 mm (.550 in.)		
	Tightening torque N-m (lb. ft.)	9-20 (7-15)		
	Gap	1.52 (0.060)		
	Number per cylinder	1		
Distributor	Manufacturer	Not Applicable		
	Model	Not Applicable		

### Electrical - Suppression

Locations & type	Not Available
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# AAMA Specifications

Vehicle Line CAVALIER  
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## METRIC (U.S. Customary)

Engine Code/Description

2.4 LITER L4 (146 CID)  
 SEQUENTIAL FUEL INJECTION RPO LD9

### Electrical - Supply System

Battery	Manufacturer	Delphi - E
	Model, std., (opt.)	Standard - 19000672
	Voltage	12
	Amps at 0° F. cold crank	600
	Minutes-reserve capacity	90
	Amps/hrs. -20 hr. rate	54
	Location	Underhood - Front
Alternator	Manufacturer	Delphi - E
	Rating (idle/max. rpm)	42/105
	Ratio (alt. crank/rev.)	2.77
	Output at idle (rpm, park)	40 Amps @600 RPM 93°C
	Optional (type & rating)	None
Regulator	Type	Internal

### Electrical - Starting System

Motor	Manufacturer	Delco Remy of America
	Current drain _____ °C (°F)	350 Amps
	Power rating kw (hp)	1.4 kw (1.87 hp.)
Motor drive	Engagement type	Soleniod with Positive Shift
	Pinion engages from (front, rear)	Front

### Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Electronic Standard	
	Other (specify)	Up Integrated Direct Ignition	
Coil	Manufacturer	Delphi Automotive Systems	
	Model	1104014	
	Current	Engine stopped - A	Less Than 100 mA
		Engine idling - A	Less Than 1.0 A
Spark plug	Manufacturer	Delphi Automotive Systems	
	Model	41-910	
	Thread (mm)	14 mm	
	Tightening torque N-m (lb. ft.)	18.0 Nm (13.28 lb ft)	
	Gap	1.5 mm (0.060 in)	
	Number per cylinder	One	
Distributor	Manufacturer	N/A	
	Model	N/A	

### Electrical - Suppression

Locations & type	
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# AAMA Specifications

Vehicle Line CAVALIER  
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## METRIC (U.S. Customary)

Model Code/Description

ALL

### Body

Structure	Unitized Body Construction Including Front End Structure With Bolted - On Fenders And Hood
Bumper system front - rear	Bumper Fascias Are Attached To Steel Impact Bar And Guideflex Or EPP Foam Absorbers For Collision Energy Absorption. Meets 5 MPH Corporate Bumper Labeling Requirements
Anti-corrosion treatment	Metal Body Uses Double Side Galvanized Metal On All Exposed Metal Surfaces. The Paint Shop Process Includes Phosphate, ELPO, Sealers, Anti-Chip, Primers And Topcoat.

### Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	High Or Low Solids Base Coat/Clear Coat Enamel	
Hood	Material & mass	Steel Z24/SMC
	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop Rod - Single Pivot Hinge
	Release control (internal, external)	Internal
Trunk lid	Material & mass	Steel/Sedan 10.5 (.41) Coupe 10.5 (.41)
	Type (counterbalance, other)	Torque Rods On Rods On Coupe And Sedan
	Internal release control (elec., mech., n.a.)	Mechanical (Optional) (A59)
Hatchback lid	Material & mass	
	Type (counterbalance, other)	
	Internal release control (elec., mech., n.a.)	
Tailgate	Material & mass	N/A
	Type (drop, lift, door)	N/A
	Internal release control (elec., mech., n.a.)	N/A
Vent window control (crank, friction, pivot, power)	Front	Not Applicable
	Rear	"
Window regulator type (cable, tape, flex drive, etc.)	Front	Cross Arm
	Rear	Single Arm
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Foam
	Rear	Foam
	3rd seat	Not Applicable
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Foam
	Rear	Foam
	3rd seat	Not Applicable

### Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Frame
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# AAMA Specifications

Vehicle Line CAVALIER  
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## METRIC (U.S. Customary)

Model Code/Description

ALL

### Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)		Lap/Shoulder Belt	N/A	Lap/Shoulder Belt
	Standard / Optional	Second seat	Lap/Shoulder Belt	Lap Belt	Lap/Shoulder Belt
		Third seat			
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	Air Bag - Knee Bolster	N/A	Air Bag - Knee Bolster
	Standard / Optional	Second seat	N/A	N/A	N/A
		Third seat			
<b>Glass</b>		SAE Ref.No.	37	67	69
Windshield glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )		S1	10,940 cm <sup>2</sup>	10,940 cm <sup>2</sup>	11,400 cm <sup>2</sup>
Side glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> ) - total 2 sides		S2	11,144 cm <sup>2</sup>	10,262 cm <sup>2</sup>	11,684 cm <sup>2</sup>
Backlight glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )		S3	10,650 cm <sup>2</sup>	2887 cm <sup>2</sup>	8873 cm <sup>2</sup>
Total glass exposed surface area cm <sup>2</sup> (in. <sup>2</sup> )		S4	32,734 cm <sup>2</sup>	24,089 cm <sup>2</sup>	31,957 cm <sup>2</sup>
Windshield glass (type/thickness)			Curved-Laminated Float 5.4 mm	Curved-Laminated Float 5.4 mm	Curved-Laminated Float 5.4 mm
Side glass (type/thickness)			Curved-Tempered Float QTR WDO 3.5 mm Door Glass 4.0 mm	Curved-Tempered Float QTR WDO 5 mm Door Glass 5 mm	Curved-Laminated Float Door Glass 4.0 mm
Backlight glass (type/thickness)			Curved-Tempered Float 3.5 mm	Curved-Tempered Float 3.5 mm	Curved-Tempered Float 3.5 mm
Tinted (yes/no, location)			All Glass Tinted	All Glass Tinted	All Glass Tinted
Solar control (yes/no, coated/batched, location)					

### Headlamps

Description (sealed beam, halogen, replaceable bulb, etc.)	Replaceable Bulb - 2 Lamps - 2 Bulbs Each
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	HB4
Quantity	2 (High And Low Combination 2 Bulbs per Car)
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	HB3
Quantity	2 (High And Low COmbination 2 Bulbs Per Car)

# AAMA Specifications

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## METRIC (U.S. Customary)

Engine Code/Description

ALL

### Climate Control System

Air conditioning (std., opt., man., auto.)		Optional
Condenser	Type	Header Tube And Center
	Eff. face area (sq. mm.)	258,163.2
	Fins per inch	2.5 K
Evaporator	Type	3-5-5 Parrallel Rib S Flow
	Eff. face area (sq. mm.)	45,050
	Fins per inch	14
Heater core	Material	Aluminum
	Eff. face area (sq. mm.)	29,210
	Fins per inch	38
Compressor	Type	Five Cylinder - Variable Displacement
	Displacement (cc.)	9.5 cu. in. = 151 cc.
	Manufacturer	Delphi Harrison Thermal Systems
	A/C pulley ratio	LD2 1.29:1 LN2 1.24:1
Accumulator	Type	Tapered Full - Size Single "O" Ring R-134a
	Height (mm.)	8" = 206
	Diameter (mm.)	93.5 (Top Shell) 88.8 (Bottom Shell)
Receiver	Type	None
	Height (mm.)	None
	Diameter (mm.)	None
Refrigerant control (CCOT, TVS, etc.)		VDOT
Heater water valve (yes / no)		No
Refrigerant (R - 12, R - 134a, etc.)		R134a
Charge level (lbs. - oz.)		1.50
Cold engine lockout switch (yes / no)		No
Wide open throttle cutout switch (yes / no)		No



# AAMA Specifications

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## METRIC (U.S. Customary)

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### Convenience Equipment (standard, optional, n.a.)

	Clock (digital, analog)	Part Of Radio Package
	Compass / thermometer	N/A
	Console (floor, overhead)	(DO6) Standard
	Defroster, electric windshield	N/A
	Defroster, electric backlight	(C49) Optional
Electronic	Diagnostic monitor (integrated, individual)	N/A
	Instrument cluster (list instruments)	(UH7) Standard, Speed, Fuel, Temp, Season Odo. (UW8) Optional, Speed, Tach, Fuel, Temp, Season And Trip Odo.
	Keyless entry	(AU0) Optional
	Tripminder (avg. spd., fuel)	N/A
	Voice alert (list items)	N/A
	Other	Key Left In/Head Lights On/Warning - Standard
	Fuel door lock (remote, key, electric)	Manual Fuel Door
Integrated Child Seating	Std./opt. & location in vehicle	N/A
	Number of occupants	N/A
	Occupant weight/height (min. & max.)	N/A
	Restraint system description (3 or 5-point belts/booster seat capability)	N/A
Lamps	Auto head on/off delay, dimming	N/A
	Cornering	N/A
	Courtesy (map, reading)	Center Dome Standard; Center Dome/Reading (OPT C95)
	Door lock, ignition	N/A
	Engine compartment	N/A
	Fog	(N/A - Base) STD On JF37
	Glove compartment	Standard
	Trunk	Standard
	Illuminated entry system (list lamps, activation)	Courtesy, Front Door Handle Activated - Standard
	Other	N/A
Mirrors	Day / night (auto., man.)	Option (DC4) Is Standard w/CF5
	L.H. (remote, power, heated)	Standard (D35), Optional (DG7), N/A
	R.H. (convex, remote, power, heated)	Standard (D35), Rh Manual, Optional (DG7), N/A
	Visor vanity (RH / LH, illuminated)	Standard No Mirror, Optional RH/LH On Light Standard No Mirror, (Base vehicles) (Opt. DD2) Standard (DD2) (JF Styles) L & R Side Covered No Lamps
	Navigation system (describe)	N/A
	Parking brake-auto release (warning light)	Standard - Manual Release

# AAMA Specifications

Vehicle Line CAVALIER  
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## METRIC (U.S. Customary)

Model Code/Description

ALL

### Convenience Equipment (standard, optional, n.a.)

Power equipment	Deck lid (release, pull down)		(A59) Optional Manual Release (Standard On Uplevel)
	Door locks (manual, automatic, describe system)		(AU4) Standard Automatic Door Lock/Unlock (AU3) Optional Electric
	Seats	2 - 4 - 6 way, etc.	N/A
		Reclining (R.H., L.H.)	N/A
		Memory (R.H., L.H., preset recline)	N/A
		Support (lumbar, hip, thigh, etc.)	N/A
		Heated (R.H., L.H., other)	N/A
	Side windows		(A31) Optional
	Vent windows		N/A
Rear windows		N/A	
Radio systems	Antenna (location, whip, w/shield, power)		(US6) Standard Fixed RH Rear Fender (U74) Antenna Delete Std. on JC
	Standard	AM, FM, stereo, tape, compact disc, graphic equalizer, theft deterrent, radio prep package, headphone jacks, etc.	(UL5) Radio Delete Std. On Base Coupe/Sedan Only (UM7) AM/FM Stereo, Seek/Scan, Clock & Compact Disc
	Optional		(UM6) AM/FM Stereo, Seek/Scan, Clock, ETR & Cassette (U1C) AM/FM Stereo, Seek/Scan, Clock & Compact Disc
	Speaker (number, location)		(UQ9) Speaker Delete (Std. On JC) (UX7) Standard 4, Dual Front Door Mtd. Dual Rear Shelf (Std. JF Only)
Roof: open air or fixed (flip-up, sliding, "T")			(AD3) Optional Hinged Coupe Only
Speed control device			(K34) Optional
Speed warning device (light, buzzer, etc.)			N/A
Tachometer (rpm)			(UH8) Standard JF
Telephone system (describe)			N/A
Theft deterrent system			Available JF37 Only w/MN4

### Trailer Towing

Towing capable	Yes / No	Yes
Engine / transmission / axle	Std. / Opt.	LD9 Option w/ MN4 4-Speed Automatic
Tow class (I, II, III)*	Std. / Opt.	
Max. gross trailer wgt. (lbs.)	Std. / Opt.	1000 lbs.
Max. trailer tongue load (lbs.)	Std. / Opt.	100 lbs.
Towing package available	Yes / No	No

\* Class I - 2,000 lbs.    Class II - 3,500 lbs.    Class III - 5,000 lbs.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary) Vehicle 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 vehicle line. SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Model Code/Description	SAE Ref. No.	COUPE	SEDAN	CONVERTIBLE
<b>Width</b>				
Tread (front)	W101	1462 (57.6)		
Tread (rear)	W102	1442 (56.8)		
Vehicle width	W103	1744 (68.7)	1725 (67.9)	1744 (68.7)
Body width at SgRP (front)	W117	1712 (67.4)	1710 (67.3)	1709 (67.3)
Vehicle width (front doors open)	W120	3844 (151.3)	3247 (127.8)	3844 (151.3)
Vehicle width (rear doors open)	W121	N/A	3520 (138.6)	N/A
Tumble-home (degrees)	W122	26.5°	29.0°	27.0°
Outside mirror width	W410	1916 (75.4)	1916 (75.4)	1916 (75.4)

### Length

Wheelbase	L101	2644 (104.1)	2644 (104.1)	2644 (104.1)
Vehicle length	L103	4580 (180.3)	4580 (180.3)	4580 (180.3)
Overhang (front)	L104	982(38.7)	982(38.7)	982(38.7)
Overhang (rear)	L105	953(37.5)	953(37.5)	953(37.5)
Upper structure length	L123	2766 (108.9)	2767 (108.9)	2766 (108.9)
Rear Wheel C/L "X" coordinate	L127	260 (10.2)	260 (10.2)	260 (10.2)

### Height \*\*

Passenger distribution (front/rear)	PD1, 2,3	2/3* **		
Trunk/cargo load		**		
Vehicle height	H101	1351 (53.2)	1394 (54.9)	1369 (53.9)
Cowl point to ground	H114	921 (36.3)	921 (36.3)	920 (36.3)
Deck point to ground	H138	1024 (40.3)	1024 (40.3)	1024 (40.3)
Rocker panel-front to ground	H112	219 (8.6)	219 (8.6)	218 (8.6)
Rocker panel-rear to ground	H111	223 (8.8)	223 (8.8)	223 (8.8)
Windshield slope angle (degrees)	H122	63.0°	61.5°	63.0°
Backlight slope angle (degrees)	H121	71.0°	63.0°	67.0°

### Ground Clearance \*\*

Front bumper to ground	H102	245.4 (9.7)	265.1 (10.4)	244.5 (9.6)
Rear bumper to ground	H104	322.7 (12.7)	314.0 (12.4)	322.6 (12.7)
Bumper to ground front at curb mass (wt.)	H103	256.6 (10.1)	256.6 (10.1)	256.6 (10.1)
Bumper to ground rear at curb mass (wt.)	H105	341.8 (13.5)	341.8 (13.5)	341.8 (13.5)
Angle of approach (degrees)	H106	13.5°		
Angle of departure (degrees)	H107	15.5°		
Ramp breakover angle (degrees)	H147	13°		
Axle differential to ground (front/rear)	H153	N/A		
Min. running ground clearance	H156	146 (5.7)	146 (5.7)	146 (5.7)
Location of min. running ground clear.		Exhaust System		

\*\* All Vehicle Height And Ground Clearance 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.

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary) Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description

COUPE                      SEDAN                      CONVERTIBLE

### Front Compartment

SAE  
 Ref.  
 No.

SgRP front, "X" coordinate	L31	3150 (124.0)	3150 (124.0)	3150 (12.4)
Effective head room	H61	956 (37.6)	989 (38.9)	968 (38.1)
Max. effective leg room (accelerator)	L34	1066 (41.9)	1066 (41.9)	1070 (42.1)
SgRP to heel point	H30	247 (9.7)	247 (9.7)	242 (9.5)
SgRP to heel point	L53	861 (33.9)	861 (33.9)	868 (34.2)
Back angle (degrees)	L40	25.5°	25.5°	25.5°
Hip angle (degrees)	L42	97.0°	97.0°	97.0°
Knee angle (degrees)	L44	125.5°	125.5°	126.0°
Foot angle (degrees)	L46	87.0°	87.0°	87.0°
Design H-point front travel	L17	208 (8.2)	208 (8.2)	208 (8.2)
Normal driving & riding seat track trvl.	L23	188 (7.4)	188 (7.4)	188 (7.4)
Shoulder room	W3	1368 (53.9)	1387 (54.6)	1368 (53.9)
Hip room	W5	1270 (50)	1290 (50.8)	1270 (50)
*** Upper body opening to ground	H50	1236 (48.7)	1271 (50)	1243 (48.9)
Steering wheel maximum diameter**	W9	375 (14.8)	375 (14.8)	375 (14.8)
Steering wheel angle (degrees)	H18	20.7°	20.7°	20.7°
Accel. heel pt. to steer. whl. cntr.	L11	481.7 (19.0)	481.7 (19.0)	488.7 (19.2)
Accel. heel pt. to steer. whl. cntr.	H17	633.3 (24.9)	633.3 (24.9)	627.2 (24.7)
Undepressed floor covering thickness	H67	13 (.51)	15 (.59)	21 (.83)

Front Compartment Interior Dimensions are Measured with the Seating Reference Point (SgRP) \_\_\_\_\_ mm forward and \_\_\_\_\_ mm Upward of Rearmost Position.

### Rear Compartment

SgRP point couple distance	L50	731 (28.8)	767 (30.2)	731 (28.8)
Effective head room	H63	929 (36.6)	946 (37.2)	955 (37.6)
Min. effective leg room	L51	831 (32.7)	873 (34.4)	829 (32.6)
SgRP (second to heel)	H31	253 (9.9)	268 (10.6)	249 (9.8)
Knee clearance	L48	1 (.04)	22 (.87)	2 (.08)
Shoulder room	W4	1394 (54.9)	1370 (53.9)	1196 (47.1)
Hip room	W6	1258 (49.5)	1285 (50.6)	1214 (47.8)
*** Upper body opening to ground	H51	N/A	1293 (50.9)	N/A
Back angle (degrees)	L41	28.0°	28.0°	28.0°
Hip angle (degrees)	L43	81.0°	85.0°	80.5°
Knee angle (degrees)	L45	78.0°	85.0°	78.0°
Foot angle (degrees)	L47	118.5°	121.5°	120.0°
Depressed floor covering thickness	H73	21 (.83)	22 (.87)	26 (1.02)

### Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	373 (13.20 cu. ft.)	385 (13.6 cu. ft.)	297 (10.5 cu. ft.)
*** Lifter height	H195	672 (26.5)	672 (26.5)	704 (27.7)

### Interior Volumes (EPA Classification)

Vehicle class	Compact	Compact	Subcompact
Interior volume index including trunk/cargo (cu. ft.)**	100.34	105.1	93.3
Trunk/cargo index (cu. ft.)	13.20 cu. ft.	13.6 cu. ft.	10.5 cu. ft.

\* See page 14.

\*\* See definition page 33.

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

\*\*\* EPA Loaded Vehicle Weight, Loading Conditions

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

### Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description

2 DOOR NOTCHBACK

Station Wagon/MPV\*  
 -Third Seat

SAE  
 Ref.  
 No. (NOT APPLICABLE)

Seat facing direction	SD1	
SgRP couple distance	L85	
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
SgRP to heel point	H87	
Knee clearance	L87	
Back angle (degrees)	L88	
Hip angle (degrees)	L89	
Knee angle (degrees)	L90	
Foot angle (degrees)	L91	

### Station Wagon/MPV\* - Cargo Space (NOT APPLICABLE)

Cargo length (open front)	L200	
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Min. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V2	
Hidden cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V4	
Cargo volume index-rear of 2-seat	V10	
Cargo volume index*	V6	
Cargo width at floor*	W500	
Maximum cargo height*	H505	

### Hatchback - Cargo Space (NOT APPLICABLE)

Cargo length at front seatback height	L208	
Cargo length at floor (front)	L209	
Cargo length at second seatback height	L210	
Cargo length at floor (second)	L211	
Front seatback to load floor height	H197	
Second seatback to load floor height	H198	
Cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V3	
Hidden cargo volume index m <sup>3</sup> (ft. <sup>3</sup> )	V4	
Cargo volume index - rear of 2-seat	V11	

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

\* MPV - Multipurpose Vehicle

\*\* EPA Loaded Vehicle Weight, Loading Conditions

# AAMA Specifications

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

## METRIC (U.S. Customary)

Model Code/ Description	COUPE	SEDAN	CONVERTIBLE
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### Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location			
Front	X	Fiducial mark to vertical zero grid line - front measured horizontally, from the zero grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.		
	Y	Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.		
	Z	Fiducial mark to horizontal zero grid line - front, measured vertically from zero grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.		
Rear	X	Fiducial mark to vertical zero grid line - rear, measured horizontally from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)		
	Y	Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal.)		
	Z	Fiducial mark to horizontal zero grid line - rear, measured vertically from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)		
NOTE: Provide 3 of 4 Fiducial Mark Locations				
Front	W21**	505 (19.9)	505 (19.9)	505 (19.9)
	L54**	2761 (108.7)	2761 (108.7)	2761 (108.7)
	H81**	251 (9.9)	251 (9.9)	251 (9.9)
	H161**	253.5 (9.9)	253.5 (9.9)	253.5 (9.9)
	H163**	237.3 (9.3)	235.7 (9.3)	235.7 (9.3)
Rear	W22**	440 (17.3)	440 (17.3)	440 (17.3)
	L55**	4953 (195)	4953 (195)	4953 (195)
	H82**	363 (14.3)	363 (14.3)	364 (14.3)
	H162**	416.6 (16.4)	416.6 (16.4)	416.6 (16.4)
	H164**	393.2 (15.5)	390.8 (15.4)	390.8 (15.4)

\* Reference - SAE Recommended Practice, J182a, Motor Vehicle Fiducial Marks.  
 \*\* Reference - SAE Recommended Practice J1100 - Motor Vehicle Dimensions.  
 \*\*\* EPA Loaded Vehicle Weight, Loading Conditions  
 All linear dimensions are in millimeters (Inches) unless otherwise noted.



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

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

Code	Equipment	Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
		MASS, kg. (lb.)			
		Front	Rear	Total	
A31	Power Windows	.9 (2.0)	.6 (1.3)	1.5 (3.3)	Coupe
AF5	Seat Adj.	0.8 (1.8)	0.8 (1.8)	1.6 (3.6)	
A31	Power Windows	2.5 (5.5)	1.5 (3.3)	4.0 (8.8)	Sedan
B37	Mats, Front & Rear	1.6 (3.5)	1.2 (2.6)	2.8 (6.2)	
C49	Defogger (Rear)	0.0 (0.0)	.1 (.2)	.1 (.2)	
CF5	Elect. Sunroof	6.6 (14.5)	6.6 (14.5)	13.2 (29.0)	
A59	Remote Trunk Lock	.1 (.2)	.2 (.4)	.3 (.6)	
C60	Air Conditioning	15.0 (33.0)	0.0 (0.0)	15.0 (33.0)	
B84	Body Side Mldg.	1.0 (2.2)	1.2 (2.7)	2.2 (4.9)	
K34	Cruise Control	1.5 (2.2)	.0 (.0)	1.5 (2.2)	
CD4	Pulse Wiper	.2 (.4)	0 (0)	.2 (.4)	
DD2	Covered Sunshade	.2 (.4)	0 (0)	.2 (.4)	
K62	Generator (Dual Int. Fan)	1.0 (2.2)	0.5 (1.1)	1.5 (3.3)	
KO5	Engine Block Heater	.4 (.9)	0 (0)	.4 (.9)	
MDg	3 Speed Auto. Trans.	30.0 (66.1)	-1.5 (-3.3)	28.5 (62.8)	
MJ1	Manual Trans.	-41.0 (-90.4)	5.0 (11.0)	-36.0 (-79.4)	1JF67 - 69
N33	Tilt Steering Wheel	1.2 (2.6)	.7 (1.5)	1.9 (4.1)	

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



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

Vehicle Line CAVALIER  
 Model Year 1996 Issued 9-95 Revised (●) \_\_\_\_\_

		Optional Equipment Differential Mass (weight)*			Remarks Restrictions, Requirements
Code	Equipment	MASS, kg. (lb.)			
		Front	Rear	Total	
QPD	195/65 R15	2.4 (5.3)	2.4 (5.3)	4.8 (10.6)	
DG7	Mirror	0.8 (1.8)	0.0 (0.0)	0.8 (1.8)	
MN4	Auto Trans. 4 Speed	43.4 (95.7)	-2.4 (-5.3)	41.0 (90.4)	
PF7	15" Wheel	-1.2 (-2.6)	-1.2 (-2.6)	-2.4 (-5.7)	1JC00
UM6	Radio - Cass	1.8 (4.0)	.2 (.4)	2.0 (4.4)	
PG1	15" Wheel	1.7 (3.7)	1.7 (3.7)	3.4 (7.4)	
UM7	Radio	1.2 (2.6)	0.0 (0.0)	1.2 (2.6)	
UNO	Radio Seek/Scan C.D.	2.0 (4.4)	.2 (.4)	2.2 (4.8)	
UX7	Speakers	.8 1.8	0.0 0	.8 1.8	
VH4	Mud Flaps	.2 (.4)	.2 (.4)	.4 (.8)	
VK3	Lic Plate Mount	.2 (.4)	.2 (.4)	.4 (.8)	
W27	Appearance Pkg.	0.3 (0.7)	0.2 (0.4)	0.5 (1.1)	
AU3	Power Locks	0.6 (1.3)	1.0 (2.2)	1.6 (3.5)	Coupe
AU3	Power Locks	1.0 (2.2)	1.6 (3.5)	2.6 (5.7)	Sedan
PF7	15" Wheel	-2.8 (6.2)	-2.8 (6.2)	-5.6 (12.4)	JF67-69
U79	Speakers	1.0 (2.2)	1.0 (2.2)	2.0 (4.4)	
T43	RR Spoiler	1.9 (4.2)	1.8 (4.2)	3.7 (8.4)	

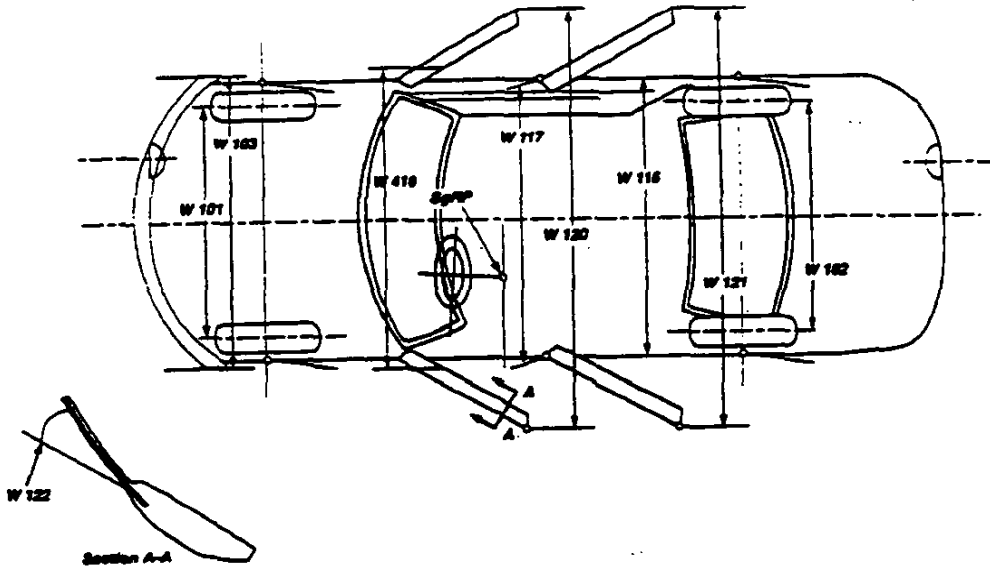
\* Also see Engine - General Section for dressed engine mass (weight.)



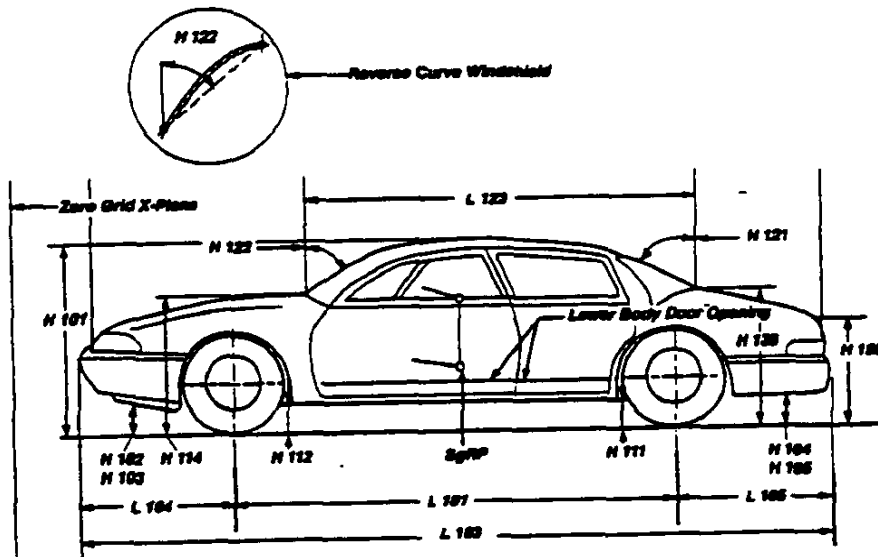
**AAMA Specifications**  
**METRIC (U.S. Customary)**

**Exterior Vehicle And Body Dimensions - Key Sheet**

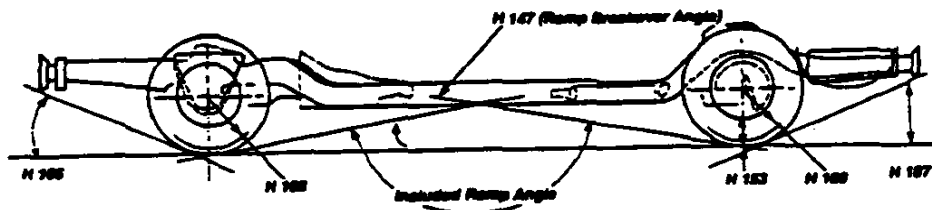
*Exterior Width Dimensions*



*Exterior Length & Height Dimensions*



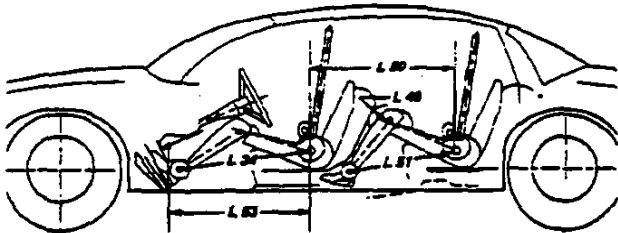
*Ground Clearance Dimensions*



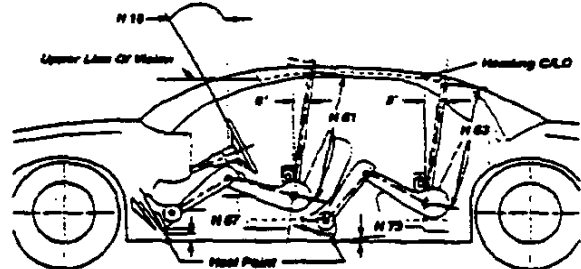
# AAMA Specifications METRIC (U.S. Customary)

## Interior Vehicle And Body Dimensions - Key Sheet

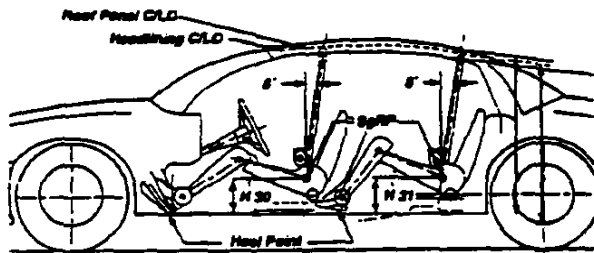
Interior Length Dimensions



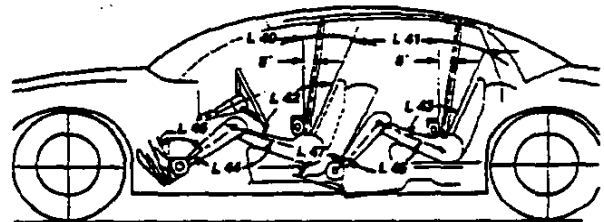
Interior Height Dimensions



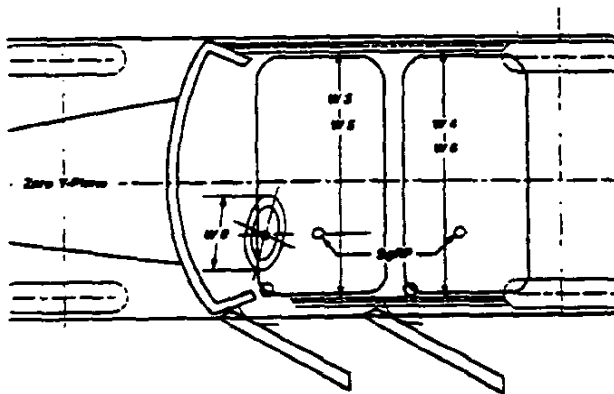
Interior Height Dimensions



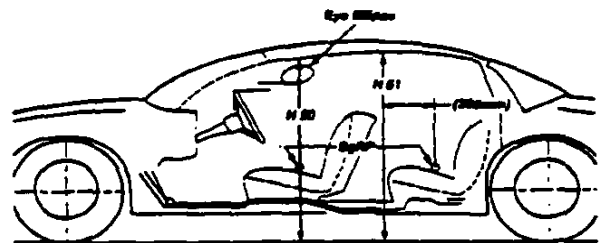
Interior Length Dimensions



Interior Width Dimensions



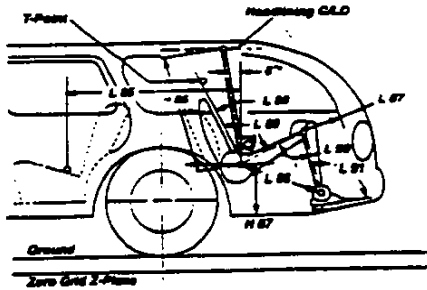
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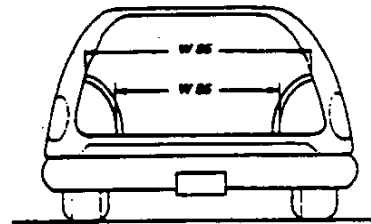
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**METRIC (U.S. Customary)**

**Interior Vehicle And Body Dimensions - Key Sheet**

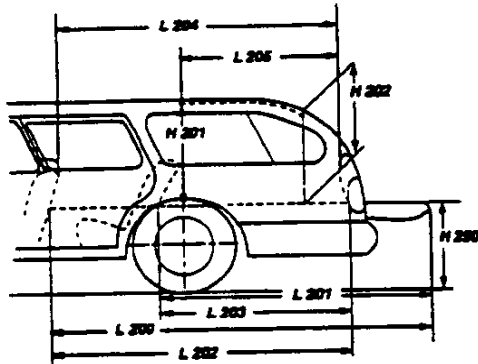
*Interior Dimensions, Seated Height Third Seat*



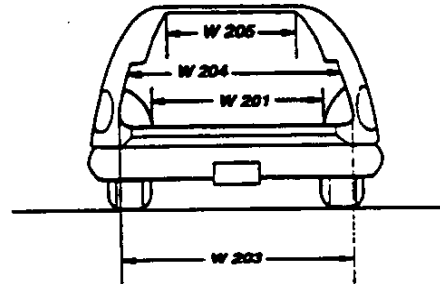
*Interior Dimensions*



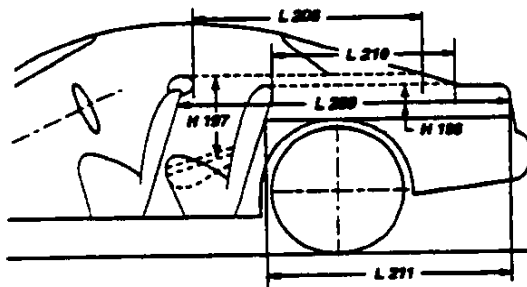
*Cargo Space Dimensions*



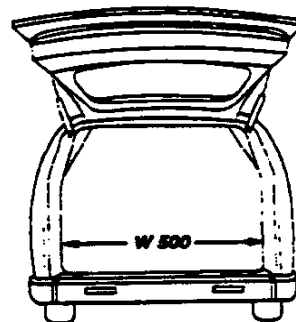
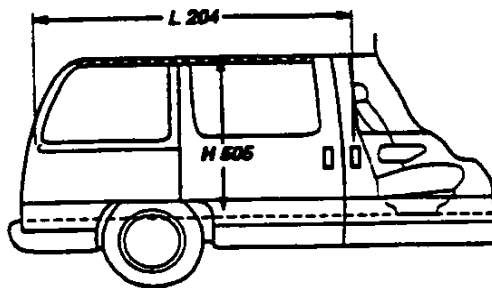
*Cargo Space Dimensions*



*Cargo Space Dimensions*



*Multipurpose Vehicle Cargo Space*



# AAMA Specifications

## METRIC (U. S. Customary)

### Exterior Vehicle 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.
- 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 rear doors in maximum hold-open position.
- W121 VEHICLE WIDTH-REAR DOORS OPEN.** The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE-HOME. STRAIGHT SIDE GLASS.** The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
- CURVED SIDE GLASS.** The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.
- W410 OUTSIDE MIRROR WIDTH:** The dimension between the widest point on the outside mirrors. The standard right and left mirror adjusted for normal driving will be shown unless otherwise noted. When only one outside mirror is standard, the dimension will be to the zero "Y" plane.

#### Length Dimensions

- L101 WHEELBASE (WB).** The dimension measured longitudinally between front and rear wheel centerline. 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 hook and/or rub strips, if standard equipment.
- L105 OVERHANG-REAR.** The dimension measured longitudinally from the centerline of the rear wheels; or in the case of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.
- L123 UPPER STRUCTURE LENGTH.** The dimension measured longitudinally from the cowl point to the deck point.

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

#### 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.
- H138 DECK POINT TO GROUND.** Measured at zero "Y" plane.
- H109 STATICLOAD-TIRE RADIUS-REAR.** Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

#### Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND.** The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPERTO GROUND-CURBMASS(WT.).** Measured in the same manner as H102.
- 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.

# AAMA Specifications

## METRIC (U. S. Customary)

### Interior Vehicle And Body Dimensions - Key Sheet

#### Dimensions Definitions

#### 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 "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.  
 H82 "Z" coordinate.  
 H162 Height "Z" coordinate to ground at curb weight.  
 H164 Height "Z" coordinate to ground.

#### Front Compartment Dimensions

- L11 ACCELERATOR WHEEL 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 rim.  
 L17 DESIGN-H-POINT-FRONT TRAVEL. The dimension measured horizontally between the design H-point-front in the foremost and rearmost seat track positions. (See SAE J1100)  
 L23 NORMAL DRIVING AND RIDING SEAT TRACK TRAVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100).  
 L31 SgRP-Front. "X" Coordinated.  
 L34 MAXIMUM EFFECTIVE LEG ROOM-ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP-front plus 254 mm (10.0 in.) measured with right foot on the underdepressed 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.  
 H7 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.  
 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 underdepressed floor covering to the underbody sheet metal at the accelerator heel point.

#### Rear Compartment Dimensions

- 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 centerline.  
 L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.  
 L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).  
 L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).  
 L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.  
 L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254 mm (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.  
 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.

# AAMA Specifications

## METRIC (U. S. Customary)

### Interior Vehicle And Body Dimensions - Key Sheet

#### Dimensions Definitions

#### Luggage Compartment Dimensions

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

#### Interior Volumes (EPA Classification)

The Interior 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 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/MPV - Third Seat Dimensions

L85 **SgRP COUPLE DISTANCE-THIRD.** The dimension measured horizontally from the SgRP-second to 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 51 mm (2.0in.). With rear-facing third seat, dimension is measured to closure.

L88 **BACK ANGLE-THIRD.** Measured 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. from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).

H87 **SgRP-THIRD TO HEEL POINT**

SD1 **SEAT FACING DIRECTION-THIRD.**

#### Station Wagon/MPV - Cargo Space Dimensions

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

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

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

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

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

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

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

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

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

W500 **CARGO WIDTH AT FLOOR.** The maximum dimension measured laterally between the limiting interferences at the floor level. This dimension shall include ribs and pillars, but will exclude wheelhouses.

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

H201 **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 vertically from the top of the undepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.

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

H505 **MAXIMUM CARGO HEIGHT.** The maximum vertical dimension rear of the front seat from the cargo floor to roof bow or headlining at the zero "Y" plane.



# AAMA Specifications

## METRIC (U. S. Customary)

### Interior Vehicle And Body Dimensions - Key Sheet

#### Dimensions Definitions

<p>V2 STATION WAGON Measured in inches:</p> $\frac{W4 \times H201 \times L204}{1728} = \text{ft.}^3$ <p>Measured in mm:</p> $\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3(\text{cubicmeter})$	<p>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.</p> <p>L209 CARGO LENGTH AT FLOOR-FRONT. 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.</p> <p>L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is towed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "X" plane.</p>
<p>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.</p> <p>V5 TRUCKS AND MPV'S WITH OPEN AREA. Measured in inches:</p> $\frac{L506 \times W505 \times H503}{1728} = \text{ft.}^3$ <p>Measured in mm:</p> $\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3(\text{cubicmeter})$	<p>L211 CARGO LENGTH AT FLOOR-SECOND SEATBACK. 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.</p> <p>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.</p> <p>H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seatback to the undepressed floor covering.</p>
<p>V6 TRUCKS AND MPV'S WITH CLOSED AREA. Measured in inches:</p> $\frac{L204 \times W500 \times H505}{1728} = \text{ft.}^3$ <p>Measured in mm:</p> $\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3(\text{cubicmeter})$	<p>V3 HATCHBACK. Measured in inches:</p> $\frac{\frac{L208+L209}{2} \times W4 \times H197}{1728} = \text{ft.}^3$ <p>Measured in mm:</p> $\frac{\frac{L208+L209}{2} \times W4 \times H197}{10^9} = \text{m}^3(\text{cubicmeter})$
<p>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 load floor rear of the second seat.</p> <p>V10 STATION WAGON CARGO VOLUME INDEX. Measured in inches:</p> $\frac{H201 \times L205 \times \frac{W4+W201}{2}}{1728} = \text{ft.}^3$ <p>Measured in mm:</p> $\frac{H201 \times L205 \times \frac{W4+W201}{2}}{10^9} = \text{m}^3(\text{cubicmeter})$	<p>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.</p> <p>V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor: Measured in inches:</p> $\frac{\frac{L210+L211}{2} \times W4 \times H198}{1728} = \text{ft.}^3$ <p>Measured in mm:</p> $\frac{\frac{L210+L211}{2} \times W4 \times H198}{10^9} = \text{m}^3(\text{cubicmeter})$

#### 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 electronically adjusted seats, see the manufacturer's specifications for Design "H" Point).

# AAMA Specifications

## METRIC (U. S. Customary)

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