CHEVROLET

NOVA

Specifications Form

1986

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NOTE:

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

Car Line NOVA
Model Year 1986 Issued _____ Revised (*) _____

Car Models

Model Description & Drive (FWD/RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfgr's Model Code)	No. of Designated Seating Positions (Front/Rear)	Max. Trunk/Cargo Load—Kilograms (Pounds)
4-Door Sedan Base		AE82L-FEMDCA	2/3	45 (100)
4-Door Sedan Base		AE82L-FEHDCA	2/3	45 (100)
4-Door Sedan CL		AE82L-FEMNCA	2/3	45 (100)
4-Door Sedan CL		AE82L-FEHNCA	2/3	45 (100)
5-Door Liftback Base		AE82L-FLMDCA	2/3	45 (100)
5-Door Liftback Base		AE82L-FLHDCA	2/3	45 (100)
5-Door Liftback CL		AE82L-FLMNCA	2/3	45 (100)
5-Door Liftback CL		AE82L-FLHNCA	2/3	45 (100)

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Power Teams (Indicate whether standard or optional)
SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg/100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE						TRANSMISSION TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in^3)	Carb. (Barrels, Fl. etc.)	Compr. Ratio	SAE Net at RPM kW (bhp)	SAE Net at RPM Torque N•m (lb. ft.)	Exhaust S/D		
		Barrels		kW/rpm	N·m/rpm			
AE82L-FEMDCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FEHDCA	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.421
AE82L-FEMNCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FEHNCA	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.421
AE82L-FLMDCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FLHDCA	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.421
AE82L-FLMNCA	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FLHNCA	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.421

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Engine Description/Carb. Engine Code	4A-LC

ENGINE – GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sonic, conc, conv, hemi, wedge, pre-camber, etc.)		Type = In-line Chamber = Wedge Location = Front (Transverse) Cam & valve = SOHC
Manufacturer		TOYOTA Motor Corporation
No. of cylinders		4
Bore		81.0 mm
Stroke		77.0 mm
Bore spacing (C. L. to C. L.)		87.5 mm
Cylinder block material & mass kg (lbs.)		Gray cast iron 30.8 kg
Cylinder block deck height		191.0 mm
Deck clearance (minimum) (above or below block)		0.00 mm
Cylinder head material & mass kg (lbs.)		Aluminum alloy 7.0 kg
Cylinder head volume (cm^3)		32.5
Head gasket thickness (compressed)		1.20 mm
Minimum combustion chamber total volume (cm^3)		49.9
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 (weight, lbs.))		Aluminum alloy 1.5 kg
Exhaust manifold material & mass (kg (weight, lbs.))		Gray cast iron 5.8 kg
Recommended fuel (leaded, unleaded, diesel)		Unleaded
Fuel antiknock index	(R + M) / 2	87
Total dressed engine mass (wt) dry**		111 kg (Manual), 102 kg (Automatic)

Engine – Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 268 g

Engine – Camshaft

Location		Over head
Material & mass kg (weight, lbs.)		Gray cast iron 2.2 kg
Drive type	Chain / belt	Belt
	Width / pitch	19.05/9.525 mm

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

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

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Engine Description/Carb. Engine Code	4A-LC

Engine – Valve System

Hydraulic lifters (std., opt., NA)		N.A.
Valves	Number intake - exhaust	4/4
	Head O.D. intake / exhaust	36 mm/31 mm

Engine – Connecting Rods

Material & mass (kg., (weight, lbs.))	Carbon steel, 0.46 kg

Engine – Crankshaft

Material & mass (kg., (weight, lbs.))		Spheroidal graphite cast iron 9.4 kg
End thrust taken by bearing (no.)		#3
Number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	Rubber, 1 piece
	Rear	Rubber, 1 piece

Engine – Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	235 kPa 2000 rpm
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full-flow
Capacity of crcase, less filter-refill-L (qt.)	3.0L

Engine – Diesel Information

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

Turbo charger - manufacturer	N.A.
Super charger - manufacturer	N.A.
Charge cooler	N.A.

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Engine Description/Carb. Engine Code	4A-LC

Engine – Cooling System

Coolant recovery system (std., opt., n.a.)		Std.
Coolant fill location (rad., bottle)		Radiator
Radiator cap relief valve pressure (kPa (psi))		88.3 kPa
Circulation thermostat	Type (choke, bypass)	Bypass type
	Starts to open at °C (°F)	82°
Water pump	Type (centrifugal, other)	Centrifugal type
	GPM 1000 pump rpm	6.0 gal/min
	Number of pumps	1
	Drive (V-belt, other)	V-ribbed belt
	Bearing type	Sealed type, roller & ball bearing
	Impeller material	Steel
	Housing material	Aluminum alloy
By-pass recirculation (type (inter., ext.))		External
Cooling system capacity	With heater–L (qt.)	6L
	With air cond.–L (qt.)	6L
	Opt. equipment (specify–L (qt.))	N.A.
Water jackets full length of cyl. (yes, no)		Yes
Water all around cylinder (yes, no)		No
Water jackets open at head face (yes, no)		Yes
Radiator core	Std., A/C, HD	Std., Opt. N.A.
	Type (cross-flow, etc.)	Vertical flow
	Construction (fin & tube mechanical, braze, etc.)	Corrugated fin
	Material, mass kg (wgt. lbs.)	Brass and copper, 2.5 kg (Manual) 2.8 kg (Automatic)
	Width	666.4 mm
	Height	325 mm
	Thickness	16 mm
	Fins per inch	16.9 (Manual) 22.6 (Automatic)
Radiator end tank material		Resin
Fan	Std., elec., opt.	Electric type
	Number of blades & type (flex., solid, material)	5 solid
	Diameter & projected width	290 mm x 41 mm
	Ratio (fan to crankshaft rev.)	–
	Fan cutout type	–
	Drive (type (direct, remote))	–
	RPM at idle (elec.)	1900
	Motor rating (wattage) (elec.)	50
	Motor switch (type & location) (elec.)	Water temperature, Water inlet housing
	Switch point (temp., pressure) (elec.)	90°C
	Fan shroud (material)	Resin

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Engine Description/Carb. Engine Code	4A-LC

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

Induction type: carburetor, fuel injection system, etc.			Carburator
Carburetor	Mfgr.		Aisan Industry Co., Ltd.
	Choke (type)		Automatic (Electric heating type)
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	650
		Automatic	750
Idle A/F mix.			Preset at manufacturer
Fuel injection	Point of injection (no.)		–
	Constant, pulse, flow		–
	Control (electronic, mech.)		–
	System pressure (kPa (psi))		–
Intake manifold heat control (exhaust or water thermostatic or fixed)			Exhaust type
Air cleaner type	Standard		Dry type, 1 elememt with HAI
	Optional		N.A.
Fuel pump	Type (elec. or mech.)		Mechanical diaphragm type
	Location (eng., tank)		Cylinder head, Rear
	Pressure range (kPa (psi))		24.5 kPa

Fuel Tank

Capacity (refill L (gallons))		50L
Location (describe)		Under rear seat floor
Attachment		Band type
Material & Mass (kg (weight lbs))		Steel plate, 10.2 kg (22.5 lbs)
Filler pipe	Location & material	Left wheel house, Steel
	Connection to tank	Rubber hose
Fuel line (material)		Steel pipe
Fuel hose (material)		Rubber
Return line (material)		Steel pipe
Vapor line (material)		Steel pipe
Extended range tank	Opt., n.a.	N.A.
	Capacity (L (gallons))	–
	Location & material	–
	Attachment	–
Auxiliary tank	Opt., n.a.	N.A.
	Capacity (L (gallons))	–
	Location & material	–
	Attachment	–
	Selector switch or valve	–
	Separate fill	–

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Engine Description/Carb. Engine Code	4A-LC

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EGR+AS+Oxygen Sensor+TWC+OC, EGR+AS+Oxygen Sensor+TWC*
	Air injection	Pump or pulse	Reed valve
		Driven by	N.A.
		Air distribution (head, manifold, etc.)	Catalytic converter, Exhaust manifold*
		Point of entry	Between TWC and OC, #3 branch*
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	Controlled flow
		Exhaust source	Exhaust manifold
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold
	Catalytic Converter	Type	3-way + Oxidation, 3-way*
		Number of	1
		Location(s)	Forward under floor area
		Volume (L (in³))	(1.3+0.7)L 1.3L*
		Substrate type	Monolith
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
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister
		Carburetor	Canister
	Vapor storage provision		Canister
Electronic system	Closed loop (yes/no)		Yes
	Open loop (yes/no)		No

*....California spec.

Engine – Exhaust System

Type (single, single with cross-over, dual, other)		Single
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))		1, Reverse flow
Resonator no. & type		-
Exhaust pipe	Branch o.d., wall thickness	-
	Main o.d., wall thickness	42.7 mm, 2.0 mm
	Material & Mass (kg (weight lbs))	Stainless steel
Intermediate pipe	o.d. & wall thickness	42.7 mm x 1.6 mm 42.7 mm x 1.2 mm
	Material & Mass (kg (weight lbs))	Aluminum-coated steel
Tail pipe	o.d. & wall thickness	42.7 mm x 1.2 mm
	Material & Mass (kg (weight lbs))	Aluminum-coated steel

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Engine Description/Carb. Engine Code	4A-LC

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	-
Manual 4-speed (std., opt., n.a.) (mfr.)	-
Manual 5-speed (std., opt., n.a.) (mfr.)	Std.
Manual overdrive (std., opt., n.a.) (mfr.)	-
Automatic (std., opt., n.a.) (mfr.)	Std.
Automatic overdrive (std., opt., n.a.) (mfr.)	-

Manual Transmission/Transaxle

Number of forward speeds			5
Transmission ratios	In first		3.545
	In second		1.904
	In third		1.233
	In fourth		0.885
	In fifth		0.725
	In overdrive		-
	In reverse		3.250
Synchronous meshing (specify gears)			All forward gears (1st, 2nd, 3rd, 4th, and 5th)
Shift lever location			Floor
Lubricant	Capacity (L (pt.))		2.6L
	Type recommended		Multi purpose API GL-4
	SAE viscosity number	Summer	SAE 75W-90
		Winter	SAE 75W-90
		Extreme cold	SAE 75W-90

Clutch (Manual Transmission)

Make, type, engagement (describe) – (hydraulic, cable, rod)		Aisin Seiki Co., Ltd., Dry single plate-hydraulic
Assist (yes, no, percent)		No
Type pressure plate springs		Diaphragm spring
Total spring load (N (lb.))		3432N
No. of clutch driven discs		1
Clutch facing	Material	Semi-mold
	Manufacturer	Nissin spinning Co., Ltd.
	Part number	31256-01010
	Rivets plate	16
	Rivet size	ϕ4 mm
	Outside & inside dia.	200 mm x 140 mm
	Total eff. area (cm^2/($in.^2$))	160 cm^2
	Thickness	3.5 mm
	Engagement cushion method	Cushion spring
Release bearing	Type & method of lubrication	Single row ball bearing, Sealed grease
Torsional damping	Method: springs, friction material	Rubber

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Engine Description/Carb. Engine Code	4A-LC

Automatic Transmission/Transaxle

Trade name		A131L
Type and special features (describe)		Hydraulic pressure controlled planetary gear
Selector	Location	Floor
	Ltr. No. designation	PRND2L
Gear ratios	R	2.810
	D	1.549
	L_3	1.000
	L_2	2.296
	L_1	-
Max. upshift speed - drive range (km/h (mph))		1 → 2: 59 km/h 2 → 3: 108 km/h
Max. kickdown speed - drive range (km/h (mph))		2 → 1: 45 km/h 3 → 2: 105 km/h
Min. overdrive speed (km/h (mph))		-
Torque converter	Number of elements	3
	Max. ratio at stall	2.100
	Type of cooling (air, liquid)	Water-cooled
	Nominal diameter	230 mm
Lubricant	Capacity (refill L (pt.))	5.5L
	Type Recommended	ATF Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)		

Axle or Front Wheel Drive Unit

Type (front, rear)			Front wheel drive
Description			Helical gear
Limited slip differential (type)			N.A.
Drive pinion offset			-
Drive pinion (type)			Helical gear
No. of differential pinions			2
Pinion / differential adjustment (shim, other)			-
Pinion / differential bearing adjustment (shim, other)			N.A., Collapsible Sleeve*
Driving wheel bearing (type)			Double row, angular ball bearing
Lubricant	Capacity (L (pt.))		2.6L, 1.4L*
	Type recommended		Multi purpose API GL-4, ATF Dexron II*
	SAE viscosity number	Summer	SAE 75W-90, - *
		Winter	SAE 75W-90, - *
		Extreme cold	SAE 75W-90, - *

*...Automatic transmission models

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

Axle ratio (or overall top gear ratio)		3.722, 3.421*
No. of teeth	Pinion	18, 19*
	Ring gear or gear	67, 65*
Ring gear o.d.		-
Transaxle	Transfer gear ratio	-
	Final drive ratio	-

*...Automatic transmission models

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Engine Description/Carb. Engine Code	4A-LC

Axle Shafts – Front Wheel Drive

Number used				2
Type (straight, solid bar, tubular, etc.)			Left	Solid shaft
			Right	Hollow shaft
Outer diam. x length* x wall thickness	Manual transmission		Left	23.8 mm x 338.0 mm
			Right	38.0 mm x 627.6 mm x 5.0 mm
	Automatic transmission		Left	23.8 mm x 338.0 mm
			Right	38.0 mm x 627.6 mm x 5.0 mm
	Optional transmission		Left	
			Right	
Slip yoke	Type			–
	Number of teeth			–
	Spline o.d.			–
Universal joints	Make and mfg. no.		Inner	GM S.S.G. make, 43403-01010
			Outer	GM S.S.G. make, 43405-01010
	Number used			4
	Type, size, plunge		Inner	Tripot (plunging)
			Outer	Rzeppa (fixed)
	Attach (u-bolt, clamp, etc.)			Snap ring
	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 attachment.

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Body Type And/Or Engine Displacement	All models

Suspension – General

Car leveling	Std., opt., n.a.	N.A.
	Type (air, hyd., etc.)	–
	Manual/auto. controlled	–
Provision for brake dib control		–
Provision for accl. squat control		–
Provisions for car jacking		–
Shock absorber (front & rear)	Type	Double-acting telescopic tube
	Make	Front: DELCO Rear: Kayaba
	Piston diameter	Front: 32 mm Rear: 25 mm
	Rod diameter	Front: 20 mm Rear: 18 mm

Suspension – Front

Type and description		MacPherson strut
Drive and torque taken through		
Travel	Full jounce	80 mm
	Full rebound	85 mm
Spring	Type (coil, leaf, other) & material	Coil
	Insulators (type & material)	SUP7 NV
	Size (coil design height & i.d., bar length x dia.)	M/T: 375mm x 117.9mm, 383.5mm x 118.2mm (Air conditioned) A/T: 383.5mm x 118.2mm, 392mm x 117.7mm (Air conditioned)
	Spring rate (N/mm (lb./in.))	17.6 N/mm
	Rate at wheel (N/mm (lb./in.))	18.6 N/mm
Stabilizer	Type (link, linkless, frameless)	N.A.
	Material & bar diameter	–

Suspension – Rear

Type and description			MacPherson strut
Drive and torque taken through			–
Travel	Full jounce		85 mm
	Full rebound		100 mm
Spring	Type (coil, leaf, other) & material		Coil SUP7
	Size (length x width, coil design height & i.d., bar length & dia.)		Sedan: 325.5 mm x (88.8 - 118.8) mm Lift back: 331 mm x (88.7 - 118.7) mm
	Spring rate (N/mm (lb./in.))		18.6 N/mm
	Rate at wheel (N/mm (lb./in.))		20.6 N/mm
	Insulators (type & material)		Insulator (top and bottom)
	If leaf	No. of leaves	–
		Shackle (comp. or tens.)	–
Stabilizer	Type (link, linkless, frameless)		N.A.
	Material & bar diameter		–
Track bar (type)			N.A.

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Body Type And/Or Engine Displacement	All models

Brakes - Service

Description			
Brake type (std., opt., n.a.)	Front (disc or drum)		Disc, Std.
	Rear (disc or drum)		Drum, Std.
Self-adjusting (std., opt., n.a.)			Std.
Special valving	Type (proportion. delay, metering, other)		Proportioning valve
Power brake (std., opt., n.a.)			Std.
Booster type (remote, integral, vac., hyd., etc.)			Direct vacuum
Vacuum source (intake, pump, etc.)			
Vacuum reservoir (volume in.³)			
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			
Anti-skid device type (std., opt., n.a.) (F-R)			N.A.
Effective area (cm²(in.²))*			Front: 164 cm² Rear: 232 cm²
Gross lining area (cm²(in.²))**(F-R)			Front: 164 cm² Rear: 232 cm²
Swept area (cm²(in.²))***(F-R)			Front: 1076 cm² Rear: 377 cm²
Rotor	Outer working diameter	F-R	243 mm/N.A.
	Inner working diameter	F-R	147 mm/N.A.
	Thickness	F-R	13.5 mm/N.A.
	Material & type (vented/solid)	F-R	Cast iron, Solid/N.A.
Drum	Diameter & width	F-R	N.A./200.0 mm
	Type and material	F-R	Cast iron
Wheel cylinder bore			Front: 51.10 mm Rear: 17.46 mm
Master cylinder Bore-stroke		F-R	Front: 22.22mm Rear: 22.22mm Front: 14.00mm Rear: 14.00mm
Pedal arc ratio			4.15
Line pressure at 445 N(100 lb.) pedal load (kPa (psi))			9273 kPa
Lining clearance		F-R	Self adjusting/Self adjusting
Brake lining — Front wheel	Bonded or riveted (rivets/seg.)		Bonded
	Rivet size		-
	Manufacturer		Bendix
	Lining code*****		-
	Material		Resin molded
	Size — Primary or out-board		102 mm x 42 mm x 10 mm
	Size — Secondary or in-board		102 mm x 42 mm x 10 mm
	Shoe thickness (no lining)		5.0 mm
Brake lining — Rear wheel	Bonded or riveted (rivets/seg.)		Bonded
	Manufacturer		Nissin Spinning Co., Ltd.
	Lining Code*****		-
	Material		Resin molded
	Size — Primary or out-board		192 mm x 30 mm x 4 mm
	Size — Secondary or in-board		192 mm x 30 mm x 4 mm
	Shoe thickness (no lining)		1.6 mm

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

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Body Type And/Or Engine Displacement	4A-LC

Tires And Wheels (Standard)

Tires	Size (load range, ply)		P155/80 R13
	Type (bias, radial, etc.)		Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	193 kPa
		Rear (kPa (psi))	193 kPa
	Rev./mile—at 70 km/h (45 mph)		913
Wheels	Type & material		Wide rim with deep bottom, Steel
	Rim (size & flange type)		5-Jx13
	Wheel offset		45 mm
	Attachment	Type (bolt or stud)	Nut
		Circle diameter	100 mm
		Number & size	4, 12P-1.5
Spare	Tire and wheel (same, if other describe)		Tire: T115/70D14 Wheel: 4-Tx14
	Storage position & location (describe)		Trunk room

Tires And Wheels (Optional)

Size (load range, ply)	P175/70 R13
Type (bias, radial, etc.)	Radial
Wheel (type & material)	Aluminum
Rim (size, flange type and offset)	5-Jx13
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position	Tire: T115/70D14 Wheel: 4-Tx14

Brakes – Parking

Type of control		–
Location of control		–
Operates on		–
If separate from service brakes	Type (internal or external)	N.A.
	Drum diameter	N.A.
	Lining size (length x width x thickness)	N.A.

Car Line NOVA
Model Year 1986 Issued _____ Revised (•) _____

Body Type And/Or Engine Displacement	All models

Steering

Manual (std., opt., n.a.)				Std.
Power (std., opt., n.a.)				Opt.
Adjustable steering wheel (tilt, swing, other)		Type and description		Tilt
		(Std., opt., n.a.)		Std. for CL models only
Wheel diameter (W9) SAE J1100		Manual		380 mm
		Power		380 mm
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)		10.2 mm
		Curb to curb (l. & r.)		9.4 mm (manual) 9.6 mm (power)
	Inside rear	Wall to wall (l. & r.)		5.0 mm (manual) 5.3 mm (power)
		Curb to curb (l. & r.)		5.3 mm (manual) 5.5 mm (power)
Scrub Radius*				
Manual	Gear	Type		Rack and pinion
		Make		Toyota Motor Corporation
		Ratios	Gear	∞
			Overall	22.67
	No. wheel turns (stop to stop)			4.07
Power	Type (coaxial, linkage, etc.)			Integral
	Make			Toyota Motor Corporation
	Gear	Type		Rack and pinion
		Ratios	Gear	∞
			Overall	18.97
	Pump (drive)			V-ribbed belt
	No. wheel turns (stop to stop)			3.35
Linkage	Type			Accar man
	Location (front or rear of wheels, other)			Rear of wheels
	Tie rods (one or two)			2
Steering axis	Inclination at camber (deg.)			12°35'
	Bearings (type)	Upper		Ball bearing
		Lower		Ball joint
		Thrust		-
Steering spindle & joint type				
Wheel spindle	Diameter	Inner bearing		38 mm
		Outer bearing		74 mm
	Thread (size)			M19 x 1.5 mm
	Bearing (type)			Double row, angular ball bearing

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

Car Line NOVA

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Body Type And/Or Engine Displacement	All models

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	0°53' ± 45'
		Camber (deg.)	-15' ± 45'
		Toe-in (outside track-mm (in.))	1 ± 4 mm
	Service reset*	Caster	0°53' ± 30'
		Camber	-15' ± 30'
		Toe-in	1 ± 1 mm
	Periodic M.V. inspection	Caster	0°53' ± 45'
		Camber	-15' ± 45'
		Toe-in	1 ± 4 mm
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-31' ± 45'
		Toe-in (outside track-mm (in.))	3.8 ± 4 mm
	Service reset*	Camber	-31' ± 30'
		Toe-in	3.8 ± 2 mm
	Periodic M.V. inspection	Camber	-31' ± 45'
		Toe-in	3.8 ± 4 mm

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

Electrical – Instruments and Equipment

Speedometer	Type	Analogue, Round
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		Non
Charge indicator	Type	Electrical
	Warning device	Lamp
Temperature indicator	Type	Electrical gauge
	Warning device	Non
Oil pressure indicator	Type	Electrical
	Warning device	Lamp
Fuel indicator	Type	Electrical guage
	Warning device	Std.
Windshield wiper	Type (standard)	Motor, 2-Speed
	Type (optional)	Motor, 3-Speed
	Blade length	Driver's side: 450 mm Passenger's side: 425 mm
	Sweet area (cm^2(in.^{2}))	5880 cm^2
Windshield washer	Type (standard)	Motor
	Type (optional)	-
	Fluid level indicator	-
Horn	Type	Electrical, Disc type
	Number used	1
Other		

Engine Description/Carb. Engine Code	4A-LC

Electrical – Supply System

Battery	Make	Delco Remy
	Model, std., (opt.)	
	Voltage	12V
	Amps at 0°F cold crank	310A
	Minutes-reserve capacity	90 minutes
	Amp/hrs. - 20 hr. rate	60
	Location	Left front in engine compartment
Generator or alternator	Type and rating	Alternating, 60A
	Ratio (alt. crank/rev.)	1:2.36
	Optional (type & rating)	-
Regulator	Type	Integrated circuit type

Electrical – Starting System

Start. motor	Current drain at 0°F	-
Motor drive	Engagement type	Shift type
	Pinion engages from (front, rear)	Right

Electrical – Ignition System

Type	Electronic (std., opt., n.a.)		Std.
	Other (specify)		N.A.
Coil	Make		Nippondenso Co., Ltd.
	Model		-
	Current	Engine stopped – A	0
		Engine rating – A	0.9
Spark plug	Make		Nippondenso Co., Ltd., NGK Spark Plug Co., Ltd.
	Model		W16EXR-U11, W14EXR-U11*, BPR5EY11, BPR4EY11*
	Thread (mm)		M14 x 19.0
	Tightening torque (N•m (lb. ft))		N·m 17.7
	Gap		1.1 mm
	Number per cylinder		1
Distributor	Make		Nippondenso Co., Ltd.
	Model		-

* except California

Electrical – Suppression

Locations & type	Resistive cord, Resistive spark plug

Car Line NOVA
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Body Type	All models

Body

Structure	Mono-cock
Bumper system front - rear	Front... Bar → Urethane (cover), PE (honeycomb) Reinforcement → Steel Rear ... Bar → Urethane (cover), PE (honeycomb) Reinforcement → Steel
Anti-corrosion treatment	Adoption of galvannealed steel seat Application of adhesive & PVC sealer to the Hemming area Application of PVC undercoat CATHODIC ED Stone guard COAT Full dipping pretreatment

Body – Miscellaneous Information

Type of finish (lacquer, enamel, other)		Acryl
Hood	Hinge location (front, rear)	Rear
	Type (counterbalance, prop)	Prop
	Release control (internal, external)	Internal
Trunk lid	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	N.A. (Base), Mechanical (CL)
Hatch-back lid	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	N.A. (Base), Mechanical (CL)
Vent window control (crank, friction, pivot, power)	Front	–
	Rear	–
Seat cushion type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Panel frame + Foam pad
	Rear	Wire frame + Foam pad
	3rd seat	
Seat back type (e.g., 60/40, bucket, bench, wire, foam etc.)	Front	Tubler frame + Spring + Foam pad
	Rear	Board frame + Foam pad *1 Panel frame + Foam pad *2
	3rd seat	

*1 ... Sedan
*2 ... Liftback

Car Line NOVA
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Body Type	All models

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: 3-point ELR type 2 pcs Rear: 2-point ALR type 2 pcs & Non retoractor type 1 pc
	Location	
Passive seat belts	Standard/optional	N.A.
	Power/manual	N.A.
	2 or 3 point	N.A.
	Knee bar/lap belt	N.A.

Frame

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

Glass	SAE Ref. No.		
Windshield glass exposed surface area [cm^2(in.^{2})]	S1	8750 cm^2	
Side glass exposed surface area [cm^2(in.^{2})] - total 2-sides	S2	12395 cm^2 (Sedan)	13060 cm^2 (Lift back)
Backlight glass exposed surface area [cm^2(in.^{2})]	S3	6560 cm^2 (Sedan)	9340 cm^2 (Lift back)
Total glass exposed surface area [cm^2(in.^{2})]	S4	27705 cm^2 (Sedan)	31150 cm^2 (Lift back)
Windshield glass (type)		Laminated glass	
Side glass (type)		Tempered glass	
Backlight glass (type)		Tempered glass	

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Body Type	All models

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

Air conditioning (manual, auto. temp control)		Opt.
Clock (digital, analog)		N.A.
Compass / thermometer		N.A.
Console (floor, overhead)		Std. (only floor)
Defroster, elec. backlight		Opt.
Electronic	Diagnostic warning (integrated, individual)	N.A.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
	Trip minder (avg. spd., fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	-
Fuel door lock (remote, key, electric)		Key (Base models), remote (CL models)
Lamps	Auto head on / off delay, dimming	N.A.
	Cornering	N.A.
	Courtesy (map, reading)	N.A.
	Door lock, ignition	N.A.
	Engine compartment	N.A.
	Fog	N.A.
	Glove compartment	N.A.
	Trunk	N.A. (base models) Std. (CL models)
	Other	-
Mirrors	Day/night (auto, man.)	Std.: man.
	L.H. (remote, power, heated)	Std.: remote
	R. H. (convex, remote, power, heated)	Opt.: convex
	Visor vanity (RH / LH, illuminated)	N.A. (base models) Std. (CL models RH)
Parking brake-auto release (warning light)		Std.
Power equipment	Door locks / deck lid - specify	Opt.: Door locks
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	N.A.
	Side windows	N.A.
	Vent windows	N.A.
	Rear window	N.A.
Radio systems	Antenna (location, whip, windshield, power)	Opt.
	AM, FM, stereo, tape; CB	Opt.
	Speaker (number, location) Premium sound	-
Roof open air/fixed (flip-up, sliding, "T")		N.A.
Speed control device		Opt.
Speed warning device (light, buzzer,etc.)		N.A.
Tachometer (rpm)		N.A.
Theft protection-type		Steering lock

Car Line NOVA

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See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	All models
Width		
Tread (front)	W101	1425 mm
Trear (rear)	W102	1405 mm
Vehicle width	W103	1635 mm
Body width at Sg RP (front)	W117	1625 mm
Vehicle width (front doors open)	W120	3275 mm
Vehicle width (rear doors open)	W121	3150 mm
Front fender overall width	W108	1635 mm
Rear fender overall width	W107	1635 mm
Tumble-home (deg.)	W122	20.8°
Length		
Wheelbase	L101	2430 mm
Vehicle length	L103	4225 mm
Overhang (front)	L104	845 mm
Overhang (rear)	L105	950 mm
Upper structure length	L123	2475 mm (Sedan) 2795 mm (Lift back)
Rear wheel C/L "X" coordinate	L127	2430 mm
Cowl point "X" coordinate	L125	395 mm
Front end length at centerline	L126	1140 mm
Rear end length at centerline	L129	410 mm (Sedan) 80 mm (Lift back)
Height*		
Passenger distribution (front/rear)	PD1,2,3	Front: 2 Rear: 1
Trunk/cargo load		0 kg
Vehicle height	H101	1340 mm
Cowl point to ground	H114	895 mm
Deck point to ground	H138	960 mm
Rocker panel-front to ground	H112	195 mm
Bottom of door closed-front to grd.	H133	275 mm
Rocker panel-rear to ground	H111	190 mm
Bottom of door closed-rear to grd.	H135	275 mm
Windshield slope angle	H122	56.8°
Backlight slope angle	H121	57°
Ground Clearance*		
Front bumper to ground	H102	380 mm
Rear bumper to ground	H104	350 mm
Bumper to ground (front at curb mass (wt.))	H103	395 mm
Bumper to ground (rear at curb mass (wt.))	H105	400 mm
Angle of approach (degrees)	H106	19.0°
Angle of departure (degrees)	H107	17.0°
Ramp breakover angle (degrees)	H147	14.5°
Axle differential to ground (front / rear)	H153	–
Min. running ground clearance	H156	135 mm
Location of min. run. grd. clear.		Federal: Air suction pipe California: Convertor

* All vehicle height and ground clearances are made at the Manufacturer's Design Load Weight, unless otherwise specified.
Manufacturers Design Load Weight is defined with indicated passenger distribution and trunk/cargo load.

Car Line NOVA

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See Key Sheets for definitions

Body Type	SAE Ref. No.	All models

Front Compartment

Sg RP front, "X" coordinate	L31	1350 mm
Effective head room	H61	963 mm
Max. eff. leg room (accelerator)	L34	1078 mm
SgRP to heel point	H30	278 mm
SgRP to heel point	L53	868 mm
Back angle	L40	21°
Hip angle	L42	96.5°
Knee angle	L44	129°
Foot angle	L46	80.5°
Design H-point front travel	L17	LH 209 mm, RH 194 mm
Normal driving & rearward seat track trvl.	L23	LH 209 mm, RH 194 mm
Shoulder room	W3	1366 mm
Hip room	W5	1273 mm
Upper body opening to ground	H50	1235 mm
Steering wheel maximum diameter	W9	
Steering wheel angle	H18	25°
Accel. heel pt. to steer. whl. ctr	L11	433.5 mm
Accel. heel pt. to steer. whl. ctr	H17	658 mm
Steering wheel to C/L of thigh	H13	90.5 mm (w/Tilt steering)
Steering wheel torso clearance	L7	405 mm
Headlining to roof panel (front)	H37	14 mm
Undepressed floor covering thickness	H67	11 mm

Rear Compartment

Sg RP Point couple distance	L50	695 mm
Effective head room	H63	928 mm (Sedan) 903 mm (Lift back)
Min. effective leg room	L51	812 mm
Sg RP (second to heel)	H31	321 mm
Knee clearance	L48	-34 mm
Compartment room	L3	604 mm
Shoulder room	W4	1366 mm (Sedan) 1361 mm (Lift back)
Hip room	W6	1312 mm (Sedan) 1209 mm (Lift back)
Upper body opening to ground	H61	1245 mm
Back angle	L41	27°
Hip angle	L43	87°
Knee angle	L45	75.5°
Foot angle	L47	105.5°
Headlining to roof panel (second)	H38	14 mm
Depressed floor covering thickness	H73	9.5 mm

Luggage Compartment

Usable luggage capacity (L (cu. ft.))	V1	0.39 m^3
Liftover height	H195	585 mm (Sedan) 590 mm (Lift back)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		-
Interior volume index (cu. ft.)		-
Trunk/cargo index (cu. ft.)		-

Car Line NOVA
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See Key Sheets for definitions

Body Type	SAE Ref. No.	5-Door Lift back

Station Wagon – Third Seat

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

Station Wagon – Cargo Space

Cargo length (open front)	L200	–
Cargo length (open second)	L201	–
Cargo length (closed front)	L202	–
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	–
Max. 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^3/$ft.^3$)	V2	–
Hidden cargo volume (m^3/$ft.^3$)	V4	–
Cargo volume, index-rear of 2-seat	V10	–

Hatchback – Cargo Space

Cargo length at front seatback height	L208	1465 mm
Cargo length at floor (front)	L209	1637 mm
Cargo length at second seatback height	L210	676 mm
Cargo length at floor (second)	L211	940 mm
Front seatback to load floor height	H197	476 mm
Second seatback to load floor height	H198	516 mm
Cargo volume index (m^3/$ft.^3$)	V3	1.005 m^3
Hidden cargo volume (m^3/$ft.^3$)	V4	–
Cargo volume index-rear of 2-seat	V11	0.567 m^3

Aerodynamics*

Wheel ht to ground, front	
Wheel ht to ground, rear	
Frontal area (m^2/ft^2)	
Drag coefficient (Cd)	

* EPA Loaded Vehicle Weight, Loading Conditions

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Body Type	All models

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front		Center of the installation hole (front floor cross-member x seat track outer), both sides
Rear		Center of the front installation hole (rear floor rear seatbelt x retractor), both sides
Fiducial Mark Number		
Front	W21	W5 + 79 mm
	L54	L20 mm
	H81	H10 + 86 mm
	H161	275 mm
	H163	305 mm
Rear	W22	W5 + 3 mm
	L55	L30 + 35 mm
	H82	H11 + 23 mm
	H162	315 mm
	H164	360 mm

* Reference – SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

All linear dimensions are in millimeters (inches).

Body Type	SAE Ref. No.	4-Door Sedan	5-Door Lift back

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	630 mm	
		Lowest	-	
	Taillamp (SAE - H128)	Highest**	840 mm	685 mm
		Lowest	-	
	Sidemarker	Front	625 mm	
		Rear	655 mm	
Distance from C.L. of car to center of bulb	Headlamp	Inside	415 mm	
		Outside**	592 mm	
	Taillamp	Inside	560 mm	505 mm
		Outside**	-	
	Directional	Front	527 mm	
		Rear	668 mm	698 mm

Halogen headlamp (sig., dot., n.a.)	Lo beam	60W
	Hi beam	40 + 50W
	Replaceable bulb	N.A.
	Shape	Rectangular, 4 lamps
Headlamp other than above	Lo beam	60W
	Hi beam	40 + 50W
	Replaceable	N.A.
	Shape	Rectangular, 4 lamps
	Type	Lo beam: 4652, Hi beam: 4651

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

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Vehicle Mass (weight)

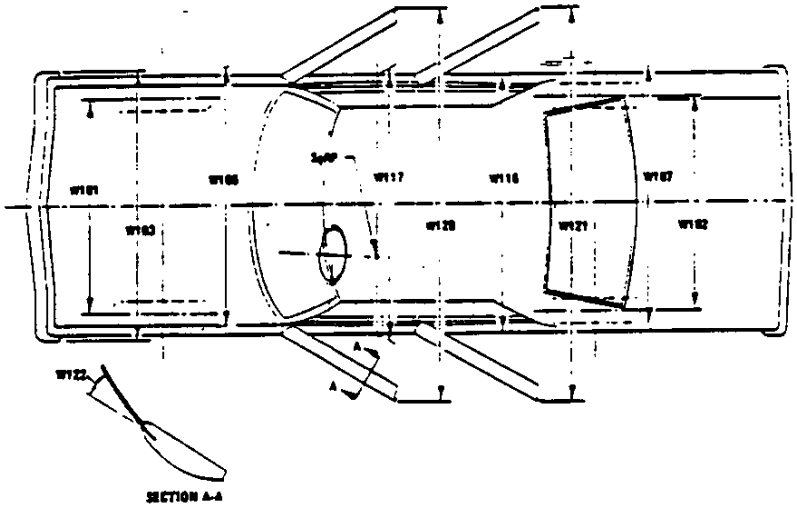
Model	CURB MASS, kg. (weight, lb.)*			% PASS. MASS DISTRIBUTION				SHIPPING MASS, kg (weight, lb.)**
				Pass in Front		Pass in Rear		
	Front	Rear	Total	Front	Rear	Front	Rear	
AE82L-FEMDCA	597	384	981	45	55	16	84	954
AE82L-FEHDCA	611	384	995	45	55	16	84	978
AE82L-FEMNCA	603	388	991	45	55	16	84	974
AE82L-FEHNCA	616	388	1004	45	55	16	84	987
AE82L-FLMDCA	591	409	1000	45	55	16	84	983
AE82L-FLHDCA	604	409	1013	45	55	16	84	996
AE82L-FLMNCA	596	413	1009	45	55	16	84	992
AE82L-FLHNCA	609	413	1022	45	55	16	84	1005

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

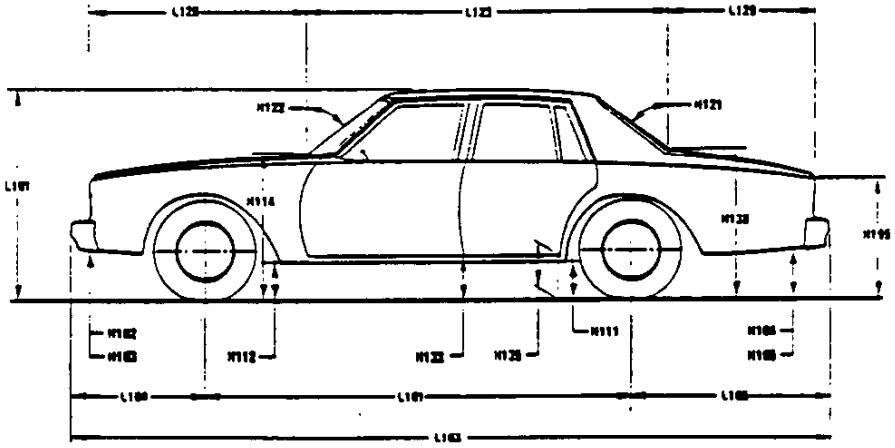
Optional Equipment Differential Mass (weight)*				
Equipment	MASS, kg. (weight, lb.)			Remarks
	Front	Rear	Total	
Air conditioner	22	0	22	
Power steering	8	0	8	
AM/FM multi 4-speaker w/cassette	2.9	1.7	4.6	
Electro-magnetic lock	0.5	1.1	1.6	
Cruise control	2.0	0	2.0	
Outer mirror (Right hand)	0.8	0.2	1.0	
Side protective moulding	0.2	0.5	0.7	"Base" grade models
Back window wiper	-0.3	2.2	1.9	Lift back

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

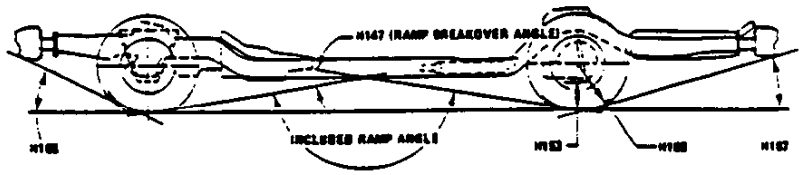
Exterior Width

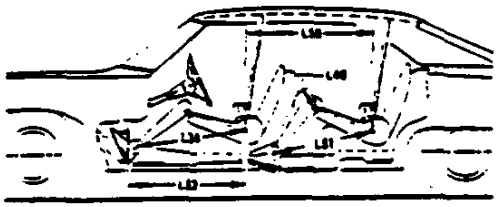


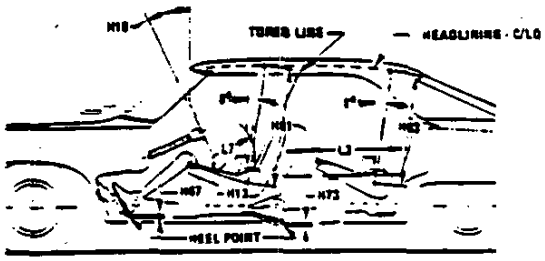
Exterior Length & Height

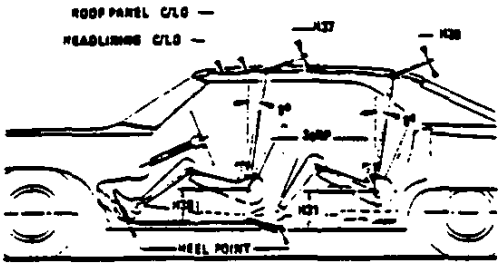


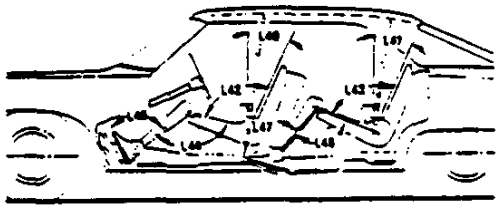
Exterior Ground Clearance






H18
TORSO LINE
HEADLINING C/L
H61
H63
L7
L3
H67
H72
HEEL POINT


ROOF PANEL C/L
HEADLINING C/L
H37
H38
H21
HEEL POINT


L40
L41
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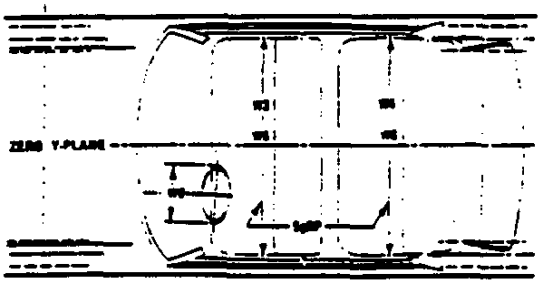
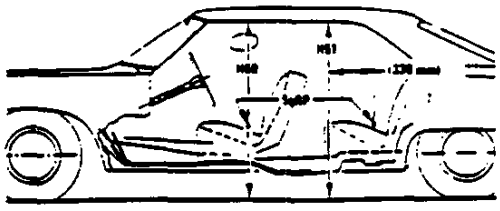
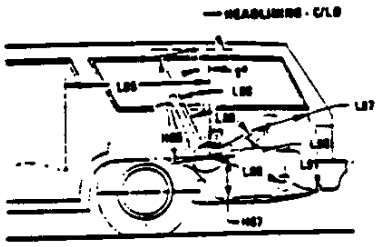
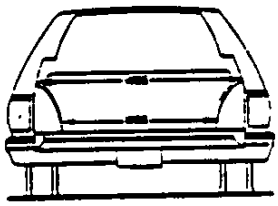
L48
L48


H3
H4
H5
H6
H6
H6

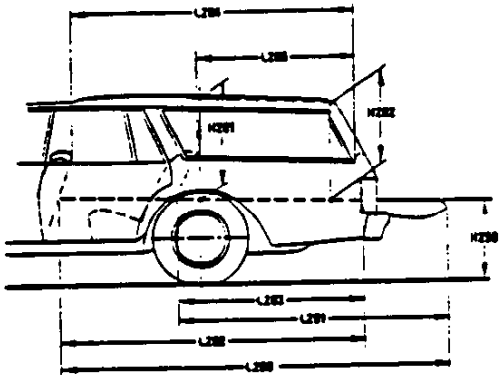

H51
H60

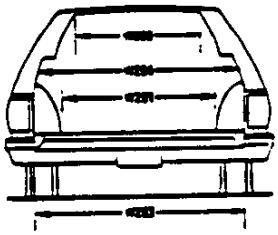
Third Seat



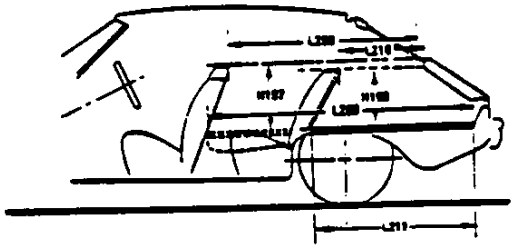


Cargo Space





Station Wagon



Hatchback

Seating Reference Point

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

(a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;

(b) Has coordinates established relative to the design vehicle structure;

(c) Simulates the position of the pivot center of the human torso and thigh; and

(d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

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

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

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

W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.

W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.

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

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

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

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

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

Length Dimensions

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

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

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

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

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

L125 COWL POINT "X" COORDINATE.

L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and or grills are integrated with the profile, measurement is made at the foremost point of front end contour.

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

L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

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

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

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

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

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

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

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

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

H133 BOTTOM OF DOOR CLOSED–FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.

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

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

Ground Clearance Dimensions

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

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

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

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

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

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

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

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

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

Glass Areas

S1 Windshield area.

S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.

S3 Backlight areas.

S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

Fiducial Mark – Number 1

L34 "X" coordinate.

W21 "Y" coordinate.

H61 "Z" coordinate.

H161 Height "Z" coordinate to ground at curb weight.

H163 Height "Z" coordinate to ground.

Fiducial Mark – Number 2

L55 "X" coordinate.

W22 "Y" coordinate.

W82 "Z" coordinate.

H162 Height "Z" coordinate to ground at curb weight.

H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.

L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel 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.

L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions.

L31 SgRP–FRONT, "X" COORDINATED.

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

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

L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.

L44 KNEE ANGLE–FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.

L46 FOOT ANGLE–FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.

L53 SgRP–FRONT TO HEEL. The dimension measured horizontally from the SgRP–front to the accelerator heel point.

W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front at height between the belt line and 254 mm (10.0 in.) above the SgRP–front, excluding the door assist strap and attaching parts.

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

W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.

H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.

H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.

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

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

H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.

H50 UPPER BODY OPENING TO GROUND–FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP–front "X" plane.

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

H67 FLOOR COVERING THICKNESS–UNDEPRESSED–FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.

PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

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

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 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 254mm (10.0 in).

W4 SHOULDER ROOM–SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP–second at height between 254-406 mm (10.0-16.0 in.) above the SgRP–second, excluding the door assist straps and attaching parts.

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

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

H38 HEADLINING TO ROOF PANEL–SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.

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

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

H73 FLOOR COVERING–DEPRESSED–SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.

P02 PASSENGER DISTRIBUTION–SECOND.

Luggage Compartment Dimensions

V1 USABLE LUGGAGE CAPACITY–Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100.

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

Interior Volumes (EPA Classification)

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

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

Station Wagon – Third Seat Dimensions

L85 SgRP COUPLE DISTANCE–THIRD. The dimension measured horizontally from the SgRP–second the the SgRP–third.

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

L87 KNEE CLEARANCE–THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in). With rear-facing third seat, dimension is measured to closure.

L88 BACK ANGLE–THIRD. Mesured in the same manner as L41.

L89 HIP ANGLE–THIRD. Measured in the same manner as L43.

L90 KNEE ANGLE–THIRD. Measured in the same manner as L45.

L91 FOOT ANGLE–THIRD. Measured in the same manner as L47.

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

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

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

P03 PASSENGER DISTRIBUTION–THIRD.

SD1 SEAT FACING DIRECTION–THIRD.

Station Wagon – Cargo Space Dimensions

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

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

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

L205 CARGO LENGTH AT BELT–SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to ne 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.

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.

V2 STATION WAGON
Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY–REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

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

Measured in mm:

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

V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = ft^3$$

Measured in mm:

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

V8 HIDDEN LUGGAGE CAPACITY–REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.

V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = ft^3$$

Measured in mm:

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

Hatchback – Cargo Space Dimensions

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

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

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

L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT–HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.

L211 CARGO LENGTH AT FLOOR–SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.

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

H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT: The dimension measured vertically from the second seat back to the undepressed floor covering.

V3 HATCHBACK.
Measured in inches:

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

Measured in mm:

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

V4 HIDDEN LUGGAGE CAPACITY–REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.

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

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = ft^3$$

Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = m^3 \text{ (cubic meter)}$$

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Widths – Car and Body	20
Windshield	18
Windshield Wiper and Washer	15

PERFORMANCE

		5-speed Manual	3-speed Automatic
Max. speed	km/h		
Max. cruising speed	km/h		
Acceleration			
0 - 100 km/h	sec		
0 - 400 m	sec		
Max. permissible speed			
1st	km/h	38	56
2nd	km/h	71	101
3rd	km/h	110	-
4th	km/h	153	-
5th	km/h	-	-