



1988
CHEVROLET
NOVA



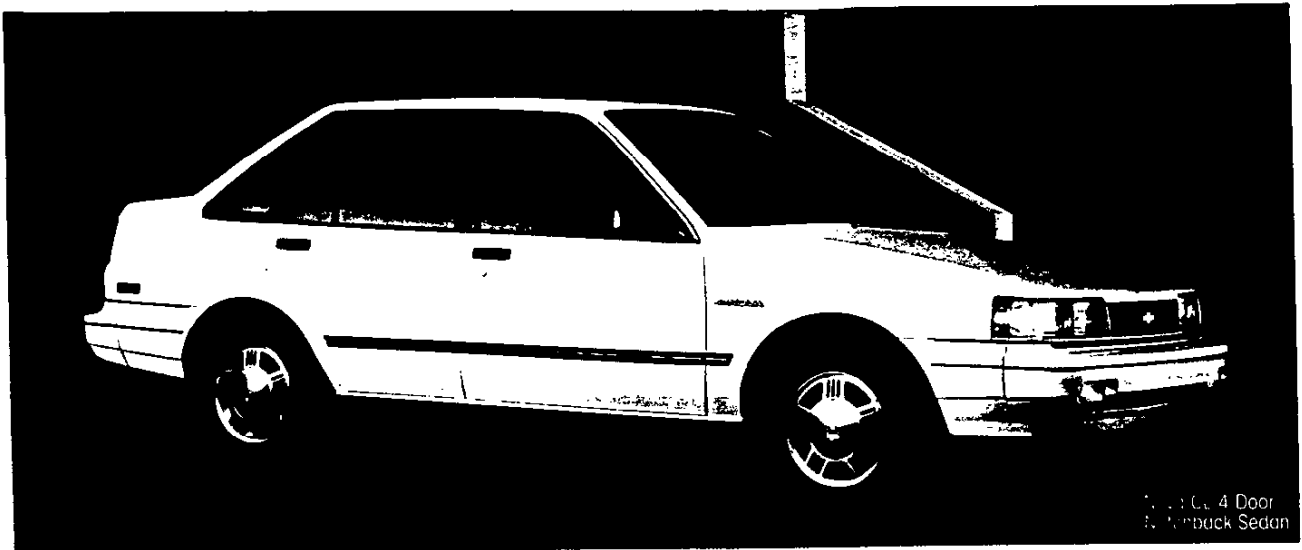
NOVA FOR 1988

NOVA
4-Door Notchback Sedan
5-Door Hatchback Sedan

MODEL NUMBER
1SK19
1SK68

PASSENGER CAPACITY
All models

5



1 SK19, 4-Door
1 SK68, 5-Door Notchback Sedan

NEW FEATURES

- Nova Twin Cam package available featuring 16-valve L4 with Electronic Fuel Injection (EFI), 4-wheel disc brakes, performance suspension, P175/70HR-13 Eagle GT tires, specific Black Metallic exterior paint, specific exterior accents and emblems, Medium Gray base interior with specific Twin Cam features.
- Rear-seat shoulder belts added for outer positions.
- AM/FM stereo radio with Seek and Scan and digital clock now included in all option packages (may be deleted for credit on base Nova).
- Amber turn signal bulbs behind clear lens replace amber lens.
- Grille accents put new emphasis on horizontal lines.

STANDARD FEATURES

- Transverse-mounted 1.6 Liter Overhead Cam 4-Cyl. Engine.
- 5-speed manual transmission with fourth and fifth gear overdrive.
- Front drive.
- Power front disc/rear drum brake system.
- P155/80R-13 all-season steel-belted radial ply blackwall tires.
- Tinted glass.
- Temporary spare tire.
- MacPherson-strut front and rear suspension.
- Low-pressure gas rear shock absorbers.
- Rack-and-pinion steering.
- Unitized construction.
- 5-MPH bumpers.
- Rear window defogger.
- Cold weather package.
- Center high-mounted stop lamp.

EQUIPMENT AVAILABILITY

	4-Door Sedan	5-Door H/B	4-Door Sedan CL	5-Door H/B CL
Body side molding	S	S	S	S
Body side striping	NA	NA	S	S
Remote patch-mounted OSRV mirror	S	S	S	S
Remote trunk lid opener	NA	NA	S	S
Remote fuel filler door opener	NA	NA	S	S
Quad rectangular headlamps	S	S	S	S
Clear lens with amber bulb turn signals	S	S	S	S
Black applique panel on trunk	NA	NA	S	NA
Center high-mounted stop lamp	S	S	S	S
Body-color door frames and rocker panels	S	S	NA	NA
Black painted door frames and rocker panels	NA	NA	S	S
Cut-pile carpeting	S	S	S	S
Passenger side visor vanity mirror	NA	NA	S	S
Passenger assist grips	NA	NA	S	S
Tilt wheel	NA	NA	S	S
Day/night inside rearview mirror	S	S	S	S
Rear compartment security cover	NA	S	NA	S
Luggage area lamp	NA	NA	S	S
AM/FM stereo radio with Seek and Scan and clock	S*	S*	S*	S*
Lumbar support and vertical adjustment on driver seat	NA	NA	S	S
Split flat-folding rear seat	NA	S	NA	S
Cloth and vinyl seat trim	S	S	NA	NA
All-velour upholstery	NA	NA	S	S
Side window defoggers	S	S	S	S
Windshield wipers with mist cycle	S	S	S	S
Nova Twin Cam 16-valve package	EC	NA	NA	NA

S—Standard NA—Not Available EC—Extra Cost.
*May be deleted for credit from base package only.

Refer to Dealer Order Guide for option availability and application.

NOVA OPTIONS

NOVA 4-DOOR NOTCHBACK OPTION PACKAGE CONTENT

■ INCLUDED IN PACKAGE

NOTE: NOT TO BE USED FOR ORDERING. REFER TO CURRENT DEALER ORDER GUIDE FOR USAGE AND AVAILABILITY.

• AVAILABLE INDIVIDUAL OPTION

	NOVA				NOVA CL				NOVA TWIN CAM					
	PKG. 1 BASE	PKG. 2	PKG. 3	PKG. 4	PKG. 5	PKG. 6	PKG. 7	PKG. 8	PKG. 1	PKG. 2	PKG. 3	PKG. 4	PKG. 5	PKG. 6
RADIO EQUIPMENT														
AM/FM Stereo w/Seek and Scan and Clock	■	■	■	■					■	■	■	■		
AM/FM Stereo w/Seek and Scan, Cassette and Clock					■	■	■	■					■	■
OPTIONS														
Base Twin Cam									■	■	■	■	■	■
CL Custom Feature Package					■	■	■	■	■	■	■	■	■	■
Manual 5-Speed Transmission	■		■		■	■	■	■	■				■	■
Automatic 3-Speed Transmission		■		■						■				■
Automatic 4-Speed Transmission										■		■	■	■
Air Conditioning			■	■	■	■	■	■	■	■	■	■	■	■
Power Steering		■	■	■	■	■	■	■	■	■	■	■	■	■
Electronic Speed Control w/Intermittent Wiper System						■	■	■			■	■	■	■
Power Door Locks							■	■					■	■
Power Windows							■	■					■	■
Tachometer					■		■	■	■	■	■	■	■	■
Halogen Headlamps					■	■	■	■	■	■	■	■	■	■
Floor Mats—Front	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Floor Mats—Rear	●	●	●	●	●	●	●	●	●	●	●	●	●	●
WHEELS/TIRES														
Aluminum Wheels							■	■	■	■	■	■	■	■
P175/70HR-13 Blackwall Tires							■	■	■	■	■	■	■	■
P175/70SR-13 Blackwall Tires					■	■	■	■						

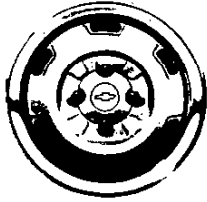
NOVA 5-DOOR HATCHBACK OPTION PACKAGE CONTENT

	NOVA				NOVA CL			
	PKG. 1 BASE	PKG. 2	PKG. 3	PKG. 4	PKG. 5	PKG. 6	PKG. 7	PKG. 8
RADIO EQUIPMENT								
AM/FM Stereo w/Seek and Scan and Clock	■	■	■	■				
AM/FM Stereo w/Seek and Scan, Cassette and Clock					■	■	■	■
OPTIONS								
CL Custom Feature Package					■	■	■	■
Manual 5-Speed Transmission	■		■		■	■	■	■
Automatic 3-Speed Transmission		■		■	■	■	■	■
Air Conditioning			■	■	■	■	■	■
Power Steering		■	■	■	■	■	■	■
Electronic Speed Control w/Intermittent Wiper System						■	■	■
Power Door Locks							■	■
Power Windows							■	■
Tachometer					■	■	■	■
Halogen Headlamps					■	■	■	■
Rear Window Washer/Wiper							■	■
Floor Mats—Front	●	●	●	●	●	●	●	●
Floor Mats—Rear	●	●	●	●	●	●	●	●
WHEELS/TIRES								
Aluminum Wheels						■	■	■
P175/70SR-13 Blackwall Tires					■	■	■	■

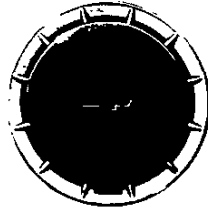
See your dealer for latest ordering information.

Refer to Dealer Order Guide for option availability and application.

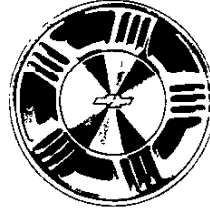
WHEEL TRIM



Standard argent-color Styled Steel Wheel with center cap and bright trim ring.



Nova CL Full Wheel Cover available with specific Nova CL option packages.



Nova CL Aluminum Wheel available with specific Nova CL option packages, included with Twin Cam Nova package.

RADIOS



Standard electronically tuned AM/FM stereo radio with Seek and Scan and digital clock (may be deleted for credit from base package only).



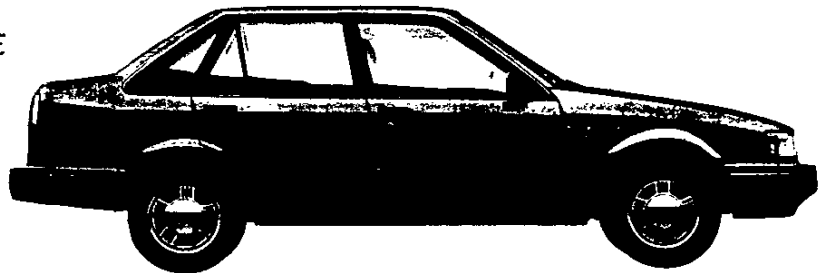
Optional AM/FM stereo radio with Seek and Scan, cassette and digital clock (RPO UM6).

Appearance of radios may vary by car model.

EXTERIOR DECOR

CUSTOM FEATURE PACKAGE

Includes wide body side moldings, bright roof drip and door belt moldings, black rear applique, body-colored bumpers, body pin striping plus specific interior features (requires CL Custom Cloth interior).



All illustrations and specifications in this brochure are based on the latest product information available at the time of publication approval. The right is reserved to make changes at any time, without notice, in colors, materials, specifications and models, and also to discontinue models. Chevrolet Motor Division, General Motors Corporation, Warren, Michigan 48090.



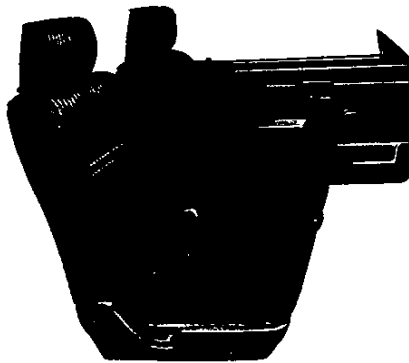
Refer to Dealer Order Guide for option availability and application.

INTERIORS

NOVA CL CUSTOM CLOTH SEAT TRIM



Custom Cloth seat trim available in Dark Blue, Brown or Medium Gray.

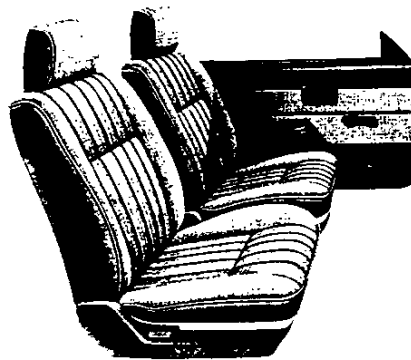


CL Custom Cloth reclining bucket seats with adjustable lumbar support and vertical adjustment on driver's seat.

NOVA CLOTH SEAT TRIM



Standard cloth seat trim available in Dark Blue, Brown or Medium Gray.



Standard cloth reclining bucket seats with adjustable head restraints.

Refer to Dealer Order Guide for option availability and application.

ALPHABETICAL OPTION INDEX

(Not for ordering purposes)

Option Number	Description
B34	FLOOR COVERING: Carpeted Mats, Color- Keyed, Front Only
B35	FLOOR COVERING: Carpeted Mats, Color- Keyed, Rear Only
LC9	ENGINE: 1.6 Liter 2 BBL L4
LW0	ENGINE: 1.6 Liter M.F.I. Twin Cam
NA5	EMISSION SYSTEM: Standard Emission Equipment
YF5	EMISSION SYSTEM: California Emission Requirements

COLOR AND TRIM SELECTION

PLEASE NOTE: AS INDICATED ON THE SMALL CARS QUICK-SPEC WORKSHEET, PRIMARY AND SECONDARY EXTERIOR/INTERIOR COLOR CHOICES MUST BE SPECIFIED. THE EXTERIOR/INTERIOR COLOR COMBINATIONS SHOWN BELOW ARE THE ONLY COMBINATIONS THAT ARE AVAILABLE. NO SUBSTITUTIONS ARE PERMITTED.

— **IMPORTANT** —

SINCE THE NOVA TWIN CAM MODEL IS AVAILABLE IN ONLY ONE COLOR COMBINATION COLOR 82 82 MUST ALWAYS BE SHOWN AS "SECONDARY" CHOICE.

CONCERNING INTERIOR TRIM CHOICE:
AQQ2 MUST ALWAYS BE SHOWN AS "PRIMARY" AND "SECONDARY" TRIM CHOICES.

Interior Trim Color		Med Gray
MODEL	SEAT TYPE	
1SL19	Cloth Bucket	N.C. AQQ2

SOLID PAINT APPLICATION

Exterior Paint Color	Color Code 1	Color Code 2	Med Gray
Black (Met)	14	14	●

POWER TEAMS (Refer to next page for option availability and application)

ENGINE OPTION CONDITION	RATIO	
	2.96	4.31
WITH NA5 STANDARD EMISSIONS		
LW0 5-SPEED MANUAL TRANSMISSION	—	Std
AUTOMATIC TRANSMISSION	Std	—
WITH YF5 CALIFORNIA EMISSIONS		
LW0 5-SPEED MANUAL TRANSMISSION	—	Std
AUTOMATIC TRANSMISSION	Std	—

NOVA TWIN CAM NOTCHBACK

REFER WEEKLY STOPS/LATEST UPDATE

MODEL:

11705.00 1SL19 Nova 4-Door Twin Cam Notchback

PERSONAL PREFERENCE CATEGORY:

ENGINE: (MUST ORDER)

N.C. LWO 1.6 Liter M.F.I. Twin Cam

EMISSION: (MUST ORDER ONE)

N.C. NA5 Standard Emission Equipment

N.C. YF5 California Emission Requirements

TWIN CAM PACKAGE

Includes:

Body Color Bumpers

Wide Body Side

Moldings (Body Color)

Passenger Assist Grips

Leather-Wrapped Steering Wheel

Leather-Wrapped Manual Shift Knob

Body Color Grille

4-Wheel Disc Brakes

Engine Oil Cooler

Black Roof Drip and Door Belt

Moldings

Black Out Door and Window Frames

Sport Suspension

— Specific Shock Tuning

— Stabilizer Bars Front and Rear

OPTION PACKAGES:

NOTE: AS INDICATED ON THE SMALL CARS QUICK-SPEC WORKSHEET, A PRIMARY AND SECONDARY QUICK-SPEC MUST BE INDICATED WHEN ORDERING.

DELETIONS FROM QUICK-SPECS ARE NOT PERMITTED. FEATURES BELOW ARE AVAILABLE ONLY IN THE QUICK-SPECS SHOWN.

	N L A 1	N L A 2	N L A 3	N L A 4	N L A 5	N L A 6
N.C. Option Package (1SA) Transmission: 5-Speed Manual Transmission: Automatic Tires, P175/70 HR-13 High Performance Steel Belted Radial Blackwall Radio, Electronically Tuned AM/FM Stereo w/Seek-Scan and Digital Clock Steering, Power Tachometer Wheels, Aluminum	x x x x x x x x	x x x x x x x	x x x x x x x	x x x x x x x	x x x x x x x	x x x x x x x
790.00 Option Package (1SB) Air Conditioning		x				
675.00 Option Package (1SC)				x	x	x
1485.00 Option Package (1SD)					x	
1370.00 Option Package (1SE) Door Lock System, Power Speed Control, Electronic: With Resume Speed Windows, Power W/S Wiper System: Intermittent						x x x x x
2160.00 Option Package (1SF)						x

INDIVIDUAL OPTION LISTING

(Please Review Option Restrictions Before Ordering. Additions MUST Be Shown As "" ' On Orders)

- 25.00 B34 Floor Covering: Carpeted Mats, Color-Keyed, Front only
- 15.00 B35 Floor Covering: Carpeted Mats, Color-Keyed, Rear only

COLOR AND TRIM SELECTION

PLEASE NOTE: As Indicated on the Small Cars Quick-Spec Worksheet, Primary and Secondary Exterior/Interior Color Choices Must be Specified. The Exterior/Interior Color Combinations shown below are the only Combinations that are Available. No Substitutions are Permitted.

CONCERNING SECONDARY EXTERIOR/INTERIOR COLOR CHOICE:
Any Specific Available Color and Trim Combination May be Indicated as a Secondary Choice. As a Further Alternative, Secondary Choice Can Reflect a Willingness to Accept a Vehicle with Any Available Color and Trim Combination. (See Alternative Secondary Color and Trim Below.)

Interior Trim Color		Dk Blue	Brown	Med Gray	
MODEL	SEAT TYPE				
1SK19	Cloth Bucket	N.C.	ADD2	AWW2	AQQ2
	#CL Custom Cloth Bucket	N.C.	#BDD2	#BWW2	#BQQ2

#Available only with Quick-Specs NVA5 and NVA8

SOLID PAINT APPLICATION

Blue, Dark	26	26	●		
Blue, Light (Met)	22	22	●		
Brown, Light (Met)	33	33		●	
Brown, Medium (Met)	65	65		●	
Gray, Medium (Met)	84	84			●
Red	75	75			●
Silver (Met)	13	13			●
White	11	11	●		

ALTERNATIVE SECONDARY COLOR AND TRIM

If One of the Specific Color Trim Combinations Above is not Selected as a Secondary Choice, the Broader Alternative Shown Below May be Specified.

Exterior Paint Color	Color Code 1	Color Code 2	TRIM
Any Paint	AN	Y3	ANY3

CL PIN STRIPING COLOR

Blue, Dark	26	26	Med Silver/Blue		
Blue, Light (Met)	22	22	Med Silver/Blue		
Brown, Light (Met)	33	33		Med Brown/Red	
Brown, Medium (Met)	65	65		Lt Brown/Red	
Gray, Medium (Met)	84	84			Med Silver/Red
Red	75	75			Silver/Red
Silver (Met)	13	13			Med Blue/Gray
White	11	11	Med Silver/Blue		

POWER TEAMS (Refer to next page for option availability and application)

ENGINE OPTION CONDITION	AXLE RATIO
	3.72
WITH NA5 STANDARD EMISSIONS	
LC9 5-SPEED MANUAL TRANSMISSION	Std
AUTOMATIC TRANSMISSION	Std
WITH YF5 CALIFORNIA EMISSIONS	
LC9 5-SPEED MANUAL TRANSMISSION	Std
AUTOMATIC TRANSMISSION	Std

NOVA NOTCHBACK SEDAN
REFER WEEKLY STOPS/LATEST UPDATE

MODEL:
9105.00 1SK19 Nova 4-Door Notchback Sedan

PERSONAL PREFERENCE CATEGORY:

ENGINE: (MUST ORDER)

N.C. LC9 1.6 Liter 2 BBL L4

EMISSION: (MUST ORDER ONE)

N.C. NA5 Standard Emission Equipment
N.C. YF5 California Emission Requirements

*** CUSTOM CL FEATURE PACKAGE (AVAILABLE ONLY WHEN B**2 CUSTOM CLOTH BUCKET IS SPECIFIED)**

Includes:

Custom Cloth Interior	Console with Storage Box and Armrest	Bright Roof Drip and Door Belt Moldings	Right Side Visor Vanity Mirror
Tilt Steering Column	Body-Colored Bumpers	Full Wheel Covers	Soft Steering Wheel
Driver's Seat with Lumbar Support and Vertical Adjustment	Remote Trunk Lid and Fuel Filler Door Opener	Wide Body Side Moldings	Passenger Assist Grips
	Luggage Compartment Floor Carpet and Lamp	Body Side Stripes	

OPTION PACKAGES:

NOTE: AS INDICATED ON THE SMALL CARS QUICK-SPEC WORKSHEET, A PRIMARY AND SECONDARY QUICK-SPEC MUST BE INDICATED WHEN ORDERING.

DELETIONS FROM QUICK-SPECS ARE NOT PERMITTED. FEATURES BELOW ARE AVAILABLE ONLY IN THE QUICK-SPECS SHOWN.

		* NOVA CL					
		N V A 1	N V A 2	N V A 3	N V A 4	N V A 5	N V A 6
N.C.	Option Package (1SA) Transmission: 5-Speed Manual Transmission: Automatic Tires, P 155/80 R-13 All-Seasons Steel Belted Radial Ply Blackwall Radio, Electronically Tuned AM/FM Stereo w/Seek-Scan and Digital Clock	x		x		x	x
645.00	Option Package (1SB) Steering, Power		x		x	x	x
900.00	Option Package (1SC) Air Conditioning			x		x	x
1515.00	Option Package (1SD) Door Lock System, Power				x	x	x
2119.00	CL Option Package (1SE) Speed Control, Electronic: With Resume Speed Tires, P175/70 R-13 All-Seasons Steel Belted Radial Ply Blackwall W/S Wiper System: Intermittent					x	x
2539.00	CL Option Package (1SF)						x

INDIVIDUAL OPTION LISTING

(Please Review Option Restrictions Before Ordering. Additions MUST Be Shown As "" ' On Orders)

- 25.00 B34 Floor Covering: Carpeted Mats, Color-Keyed, Front only
- 15.00 B35 Floor Covering: Carpeted Mats, Color-Keyed, Rear only

COLOR AND TRIM SELECTION

PLEASE NOTE: As Indicated on the Small Cars Quick-Spec Worksheet, Primary and Secondary Exterior/Interior Color Choices Must be Specified. The Exterior/Interior Color Combinations shown below are the only Combinations that are Available. No Substitutions are Permitted.

CONCERNING SECONDARY EXTERIOR/INTERIOR COLOR CHOICE:
Any Specific Available Color and Trim Combination May be Indicated as a Secondary Choice. As a Further Alternative, Secondary Choice Can Reflect a Willingness to Accept a Vehicle with Any Available Color and Trim Combination. (See Alternative Secondary Color and Trim Below.)

Interior Trim Color		Dk Blue	Brown	Med Gray	
MODEL		SEAT TYPE			
1SK68	Cloth Bucket	N.C.	ADD2	AWW2	AQQ2

SOLID PAINT APPLICATION

Blue, Dark	26	26	●		
Blue, Light (Met)	22	22	●		
Brown, Light (Met)	33	33		●	
Brown, Medium (Met)	65	65		●	
Gray, Medium (Met)	84	84			●
Red	75	75			●
Silver (Met)	13	13			●
White	11	11	●		

ALTERNATIVE SECONDARY COLOR AND TRIM

If One of the Specific Color Trim Combinations Above is not Selected as a Secondary Choice, the Broader Alternative Shown Below May be Specified.

Exterior Paint Color	Color Code 1	Color Code 2	TRIM
Any Paint	AN	Y3	ANY3

POWER TEAMS (Refer to next page for option availability and application)

ENGINE OPTION CONDITION	AXLE RATIO
	3.72
WITH NA5 STANDARD EMISSIONS	
LC9 5-SPEED MANUAL TRANSMISSION	Std
AUTOMATIC TRANSMISSION	Std
WITH YF5 CALIFORNIA EMISSIONS	
LC9 5-SPEED MANUAL TRANSMISSION	Std
AUTOMATIC TRANSMISSION	Std

NOVA HATCHBACK SEDAN

REFER WEEKLY STOPS/LATEST UPDATE

MODEL:

9360.00 1SK68 Nova 5-Door Hatchback Sedan

PERSONAL PREFERENCE CATEGORY:

ENGINE: (MUST ORDER)

N.C. LC9 1.6 Liter 2 BBL L4

EMISSION: (MUST ORDER ONE)

N.C. NA5 Standard Emission Equipment

N.C. YF5 California Emission Requirements

OPTION PACKAGES:

NOTE: AS INDICATED ON THE SMALL CARS QUICK-SPEC WORKSHEET, A PRIMARY AND SECONDARY QUICK-SPEC MUST BE INDICATED WHEN ORDERING.

DELETIONS FROM QUICK-SPECS ARE NOT PERMITTED. FEATURES BELOW ARE AVAILABLE ONLY IN THE QUICK-SPECS SHOWN.

	N H A 1	N H A 2	N H A 3	N H A 4
N.C. Option Package (1SA) Transmission: 5-Speed Manual Transmission: Automatic Tires, P155/80 R-13 All-Seasons Steel Belted Radial Ply Blackwall Radio, Electronically Tuned AM/FM Stereo w/Seek-Scan and Digital Clock	x x x x x	x	x	x x x x
645.00 Option Package (1SB) Steering, Power		x	x	x
900.00 Option Package (1SC) Air Conditioning			x	x
1515.00 Option Package (1SD) Door Lock System, Power				x x

INDIVIDUAL OPTION LISTING

(Please Review Option Restrictions Before Ordering. Additions MUST Be Shown As " " On Orders)

- 25.00 B34 Floor Covering: Carpeted Mats, Color-Keyed, Front only
- 15.00 B35 Floor Covering: Carpeted Mats, Color-Keyed, Rear only

NOVA

1988 VEHICLES WITH STANDARD EQUIPMENT

Tentative prices shown are effective with initial shipments of 1988 model motor vehicles

Description	Model Number	Body Code	Wheel Base	Dealer Invoice Amount*	Dealer Price	Factory D&H(a)	List Price	Mfr's Suggested Retail Price*	Group Number
◆ 4-Cylinder Engine									
Nova 4-Door Notchback Sedan ..	1SK19		95.7"	7941.89	7678.04	N.A.	8795.00	8795.00	11
Nova Twin Cam Notchback Sedan ..	1SL19		95.7"	10289.69	9947.84	N.A.	11395.00	11395.00	11
Nova 5-Door Hatchback Sedan ..	1SK68		95.7"	8172.15	7900.65	N.A.	9050.00	9050.00	11

★ Manufacturer's Suggested Retail Prices do not include applicable destination charges, state and local taxes, license fees, optional equipment or special items or services.

◆ Refer to Dealer Order Guide for California Requirements.

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Tentative prices shown are effective with initial shipments of 1988 model motor vehicles

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H(a)	List Price	Mfr's Suggested Retail Price◇
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Interior Trim: (One of the following trim codes must be specified)						
A**2 Cloth Bucket Seats					NO ADDITIONAL CHARGE
B**2 CL Custom Cloth Bucket Seats. Included with Nova CL Option Package 5 or 6					NO ADDITIONAL CHARGE
Exterior Color: Paint. Solid						
.....					NO ADDITIONAL CHARGE
Emission Systems:						
California Emission Requirements. Includes all testing, equipment and /or certification necessary for registration in State of California						
.....	YF5					NO ADDITIONAL CHARGE
Standard Emission Equipment						
.....	NA5					NO ADDITIONAL CHARGE
Floor Covering: Mats. Color-Keyed						
Carpeted Mats. Front only	834	21.25	20.50	N.A.	25.00	25.00
Carpeted Mats. Rear only	835	12.75	12.30	N.A.	15.00	15.00
Nova Option Package 1: Included with model. Includes:						
1.6 Liter L4 Engine						
5-Speed Transmission						
P155/80R-13 All Seasons Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
.....	1SA					NO ADDITIONAL CHARGE
Nova Option Package 2: Includes:						
1.6 Liter L4 Engine						
Automatic Transmission						
P155/80R-13 All Seasons Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering	1SB	548.25	528.90	N.A.	645.00	645.00
Nova Option Package 3: Includes:						
1.6 Liter L4 Engine						
5-Speed Transmission						
P155/80R-13 All Seasons Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Air Conditioning	1SC	765.00	738.00	N.A.	900.00	900.00
Nova Option Package 4: Includes:						
1.6 Liter L4 Engine						
Automatic Transmission						
P155/80R-13 All Seasons Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Air Conditioning						
Power Door Locks	1SD	1287.75	1242.30	N.A.	1515.00	1515.00

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.

(a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.

◇ State and local taxes not included.

NOVA

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Tentative prices shown are effective with initial shipments of 1988 model motor vehicles

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H(a)	List Price	Mfr's Suggested Retail Price◇
REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION						
Nova CL Option Package 5. 1SK19 only: Includes:						
1.6 Liter L4 Engine						
5-Speed Transmission						
P175/70R-13 All Seasons Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Air Conditioning						
Custom CL Feature Package						
Speed Control, Electronic, with resume feature						
Intermittent Wipers						
Power Door Locks	1SE	1801.15	1737.58	N.A.	2119.00	2119.00
Nova CL Option Package 6. 1SK19 only: Includes:						
1.6 Liter L4 Engine						
Automatic Transmission						
P175/70R-13 All Seasons Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Air Conditioning						
Custom CL Feature Package						
Speed Control, Electronic, with resume feature						
Intermittent Wipers						
Power Door Locks	1SF	2158.15	2081.98	N.A.	2539.00	2539.00
Nova Twin Cam Option Package 1. 1SL19 only:						
Included with model.						
1.6 Liter L4 Twin Cam Engine						
5-Speed Transmission						
P175/70HR-13 High Performance Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Tachometer						
Aluminum Wheels	1SA					NO ADDITIONAL CHARGE
Nova Twin Cam Option Package 2. 1SL19 only:						
Includes:						
1.6 Liter L4 Twin Cam Engine						
Automatic Transmission						
P175/70HR-13 High Performance Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Tachometer						
Aluminum Wheels	1SB	671.50	647.80	N.A.	790.00	790.00
Nova Twin Cam Option Package 3. 1SL19 only:						
Includes:						
1.6 Liter L4 Twin Cam Engine						
5-Speed Transmission						
P175/70HR-13 High Performance Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Tachometer						
Aluminum Wheels						
Air Conditioning	1SC	573.75	553.50	N.A.	675.00	675.00
Nova Twin Cam Option Package 4. 1SL19 only:						
Includes:						
1.6 Liter L4 Twin Cam Engine						
Automatic Transmission						
P175/70HR-13 High Performance Blackwall Tires						
Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock						
Power Steering						
Tachometer						
Aluminum Wheels						
Air Conditioning	1SD	1245.25	1201.30	N.A.	1465.00	1465.00

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.

(a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.

◇ State and local taxes not included.

NOVA

OPTIONS WHEN INSTALLED BY GENERAL MOTORS

Tentative prices shown are effective with initial shipments of 1988 model motor vehicles

Description	Option Number	Dealer Invoice Amount*	Dealer Price	Factory D&H(a)	List Price	Mfr's Suggested Retail Price◇
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REFER TO DEALER ORDER GUIDE FOR OPTION AVAILABILITY AND APPLICATION

Nova Twin Cam Option Package 5. 1SL19 only:

Includes:

- 1.6 Liter L4 Twin Cam Engine
- 5-Speed Transmission
- P175/70HR-13 High Performance Blackwall Tires
- Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock
- Power Steering
- Aluminum Wheels
- Air Conditioning
- Speed Control, Electronic, with resume feature
- Intermittent Wipers
- Power Door Locks
- Power Windows
- Tachometer

	1SE	1164.50	1123.40	N.A.	1370.00	1370.00
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Nova Twin Cam Option Package 6. 1SL19 only:

Includes:

- 1.6 Liter L4 Twin Cam Engine
- Automatic Transmission
- P175/70HR-13 High Performance Blackwall Tires
- Electronically Tuned AM/FM Stereo Radio with Seek and Scan and Digital Clock
- Power Steering
- Tachometer
- Aluminum Wheels
- Air Conditioning
- Speed Control, Electronic, with resume feature
- Intermittent Wipers
- Power Door Locks
- Power Windows

	1SF	1836.00	1771.20	N.A.	2160.00	2160.00
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Note: Nova CL Option Package 5 and 6 also includes the following features which are incorporated in the Custom CL Feature Package: 1SK19 only. Custom cloth interior, wide body side moldings, body side stripes, bright roof drip and door belt moldings, black rear applique, body-colored bumpers, full wheel covers, luggage compartment floor carpet and lamp, console with storage box and armrest, tilt steering column, remote trunk lid and fuel filler door opener, right side visor vanity mirror, passenger assist grips, soft steering wheel and driver's seat with lumbar support and vertical adjustment

Note: Nova Twin Cam Option Packages also includes the following features: Wide body color side moldings, black roof drip and door belt moldings, black out door and window frames, passenger assist grips, leather wrapped steering wheel and shift knob, body-colored bumpers and grille, 4 wheel disc brakes, engine oil cooler, front and rear stabilizer bars and tuned shocks

* Dealer Invoice Amount includes 3% Holdback Amount retained for dealer's account.
 (a) D & H Charges on vehicle and optional equipment include reimbursement to ordering Division for any tax that it has paid, incurred or agreed to pay thereon.
 ◇ State and local taxes not included.



MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC (U.S. Customary)

1988

Manufacturer Toyota Motor Corporation 4-18 Koraku 1-Chome Bunkyo-Ku, Tokyo, Japan	Vehicle Line NOVA	
Mailing Address Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060	Issued June, 1987	Revised September, 1987

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 Motor Vehicle Manufacturers Association of the United States, Inc.

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.



Motor Vehicle Manufacturers Association
of the United States, Inc.

Blank Forms Provided by Technical Affairs Division

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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.

Vehicle Line NOVA
 Model Year 1988 issued _____ Revised (e) _____

Vehicle Models

Model Description & Drive (FWD/RWD)	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)
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)
4-Door Sedan Base		AE82L-FEMDCK	2/3	45 (100)
4-Door Sedan Base		AE82L-FEHDCK	2/3	45 (100)
4-Door Sedan CL		AE82L-FEMNCK	2/3	45 (100)
4-Door Sedan CL		AE82L-FEHNCK	2/3	45 (100)
5-Door Liftback Base		AE82L-FLMDCK	2/3	45 (100)
5-Door Liftback Base		AE82L-FLHDCK	2/3	45 (100)
5-Door Liftback CL		AE82L-FLMNCK	2/3	45 (100)
5-Door Liftback CL		AE82L-FLHNCK	2/3	45 (100)
4-Door Sedan Twin cam		AE82L-FEMQFA	2/3	45 (100)
4-Door Sedan Twin cam		AE82L-FEPQFA	2/3	45 (100)

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					E x h a u s t S/D	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, Fl, etc.)	Compr. Ratio	SAE Net at RPM				
				Power kW (bhp)	Torque N·m (lb. ft.)			
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	3.722
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	3.722
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	3.722
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	3.722
AE82L-FEMDCK	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FEHDCK	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.722
AE82L-FEMNCK	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FEHNCK	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.722
AE82L-FLMDCK	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FLHDCK	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.722
AE82L-FLMNCK	1.587	2	9.0	55/ 5200	116/ 2800	S	5-Speed Manual	3.722
AE82L-FLHNCK	1.587	2	9.0	55/ 5200	116/ 2800	S	3-Speed Automatic	3.722
AE82L-FEMQFA	1.587	F1	9.4	82/ 6600	133/ 4800	S	5-Speed Manual	4.312
AE82L-FEPQFA	1.587	F1	9.4	82/ 6600	133/ 4800	S	4-Speed Automatic	2.962

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Engine Description/Carb.
 Engine Code

4A-LC	4A-GEL
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ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	Type = In-line Chamber = Wedge Location = Front(Traverse) Cam & valve = SOHC	Type = In-line Chamber = Pentroof Location = Front(Traverse) Cam & valve = DOHC
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.) (machined)	Gray cast iron 31.3 kg	
Cylinder block deck height	191.0 mm	
Cylinder block length	391.5 mm	
Deck clearance (minimum) (above or below block)	0.00 mm	
Cylinder head material & mass kg (lbs.)	Aluminum alloy 7.0 kg	Aluminum alloy 11.1 kg
Cylinder head volume (cm ³)	32.5 cm ³	36.0 cm ³
Cylinder liner material	Gray cast iron	
Head gasket thickness (compressed)	1.20 mm	
Minimum combustion chamber total volume (cm ³)	49.9 cm ³	47.20 cm ³
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.))**	Aluminum alloy 1.5 kg	Aluminum alloy 4.8 kg
Exhaust manifold material & mass (kg (lbs.))**	Gray cast iron 5.8 kg	Spheroidal graphite cast iron 6.0 kg
Recommended fuel (leaded, unleaded, diesel)	Unleaded	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt) dry***	114 kg(M/T), 105 kg(A/T)	120 kg(M/T), 113 kg(A/T)

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	Aluminum alloy, 268 g	Aluminum alloy, 310 g
--	-----------------------	-----------------------

Engine - Camshaft

Location	Over head	Over cylinder head
Material & mass kg (weight, lbs.)	Gray cast iron 2.38 kg	Alloy cast iron, NO.1(IN) 1.66 kg NO.2(EX) 1.65 kg
Drive type	Chain / belt	Belt
	Width / pitch	19.1/9.525 mm

* 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:

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Engine Description/Carb.
 Engine Code

4A-LE	4A-GEL
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Engine - Valve System

Hydraulic lifters (std., opt., NA)	N.A.	
Valves	Number intake / exhaust	4/4 8/8
	Head O.D. intake / exhaust	36 mm/31 mm 30.5 mm/25.5 mm

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	Carbon steel, 0.46 kg	Carbon steel, 0.526 kg
--	-----------------------	------------------------

Engine - Crankshaft

Material & mass (kg., (weight, lbs.))*	Spheroidal graphite cast iron 9.4 kg	Carbon steel 12.4 kg
End thrust taken by bearing (no.)	#3	#3
<input checked="" type="checkbox"/> Length & number of main bearings	20 mm 5 pcs	20 mm 5 pcs
Seal (material, one, two piece design, etc.)	Front	Acrylate, one piece
	Rear	Silicone, one piece
		Acrylate, one piece
		Silicone, one piece

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	235 kPa/2000 rpm	392 kPa/600 rpm
Type oil intake (floating, stationary)	Stationary	Stationary
Oil filter system (full flow, part, other)	Full flow	Full flow
Capacity of c/case, less filter-refill-L (qt.)	3.0L	w/filter 3.7L, w/o filter 3.4L

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.

*Finished State

1988 Format Change

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Engine Description/Carb.
 Engine Code

-4A-LC	4A-GEL
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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		Std.		
Coolant fill location (rad., bottle)		Radiator	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	7.9 gal/min	
	Number of pumps	1		
	Drive (V-belt, other)	V-ribbed belt		
	Bearing type	Sealed type, roller & ball bearing		
	Impeller material	Steel	SUS	
Housing material		Aluminum alloy		
By-pass recirculation (type (inter., ext.))		External		
Cooling system capacity	With heater-L(qt.)	6.0L		
	With air cond.-L(qt.)	6.0L		
	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)		No		
Radiator core	Std., A/C, HD	Std., Opt., N.A.		
	Type (cross-flow, etc.)	Vertical flow		
	Construction (fin & tube mechanical, braze, etc.)	Corrugated fin	Corrugated fin, Soldered, 1 row	
	Material, mass (kg (wtg. lbs.))	Copper & Brass, M/T: 3.5 kg, A/T 4.0 kg		
	Width	666 mm		
	Height	326.3 mm		
	Thickness	16 mm		
	Fins per inch	15.9(M/T) 21.2(A/T)		
Radiator end tank material		Resin		
Fan	Std., elec., opt.	Electric type		
	Number of blades & type (flex, solid, material)	5, solid	4, solid	
	Diameter & projected width	280 mm x 41 mm	300 x 80 mm(M/T), 300 x 88 mm(A/T)	
	Ratio (fan to crankshaft rev.)	-		
	Fan cutout type	-		
	Drive type (direct, remote)	-		
	RPM at idle (elec.)	1900	M/T: 1900, A/T: 2100	
	Motor rating (wattage) (elec.)	50 W	M/T: 45 W, A/T: 80 W	
	Motor switch (type & location) (elec.)	Water temperature, Water inlet housing		
	Switch point (temp., pressure) (elec.)	90°C		
Fan shroud (material)	Resin	Steel		

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Engine Description/Carb.
 Engine Code

4A-LC	4A-GEL
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Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		Carburetor	Fuel injection system
Manufacturer		Aisan Industry Co., Ltd.	-
Carburetor	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.)	-	4
	Constant, pulse, flow	-	Pulse
	Control (electronic, mech.)	-	Electronic
	System pressure (kPa (psi))	-	284 kPa
Intake manifold heat control (exhaust or water thermostatic or fixed)		Exhaust gas	-
Air cleaner type	Standard	Dry type, 1 element with HAI	Dry type, 1 element
	Optional	N.A.	N.A.
Fuel pump	Type (elec. or mech.)	Mechanical diaphragm type	Electromagnetic
	Location (eng., tank)	Cylinder head, Rear	Fuel tank
	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) Steel plate, 10.3 kg(22.7 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		-

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Engine Description/Carb.
 Engine Code

4A-LC	4A-GEL
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Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		EGR+AS+Oxygen Sensor+TWC+OC, EGR+AS+Oxygen Sensor+TWC*	EFI+EGR+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)	Ex. back pressure		
		Exhaust source	Exhaust manifold		
		Point of exhaust injection (spacer, carburetor, manifold, other)	Intake manifold		
	Catalytic Converter	Type	3-way + Oxidation, 3-way*	3-way	
		Number of	1		
		Location(s)	Forward under floor area		
		Volume (L (in ³))	(1.3+0.7)L 1.3L*	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	Throttle body	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	Canister		
		Carburetor	Canister	N.A.	
	Vapor storage provision		Canister		
Electronic system	Closed loop (yes/no)		Yes		
	Open loop (yes/no)		No		

Engine - Exhaust System

*...California spec.

Type (single, single with cross-over, dual, other)	Single	Semi dual			
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass (kg (weight lbs))	1, Reverse flow	1, Straight flow 1, Reverse flow			
Resonator no. & type	-	N.A.			
Exhaust pipe	Branch o.d., wall thickness	-			
	Main o.d., wall thickness	ø42.7, t=2.0		ø42.7, t=1.5 ø48.6, t=1.5	
	Material & Mass (kg (weight lbs))	Stainless steel			
Inter- mediate pipe	o.d. & wall thickness	ø42.7, t=1.6	ø42.7, t=1.2	ø48.6, t=1.6	ø42.7, t=1.6
	Material & Mass (kg (weight lbs))	Aluminum-coated steel			
Tail pipe	o.d. & wall thickness	ø42.7, t=1.2		ø60.5, t=1.2	
	Material & Mass (kg (weight lbs))	Aluminum-coated steel		Stainless steel	

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (#) _____

Engine Description/Comb.
 Engine Code

4A-LC	4A-GEL
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Transmissions/Transaxle (Std., Opt., N.A.)

Manual 3-speed (manufacturer/country)	-
Manual 4-speed (manufacturer/country)	-
Manual 5-speed (manufacturer/country)	Std.
Automatic (manufacturer/country)	-
Automatic overdrive (manufacturer/country)	Std.
	-

Manual Transmission/Transaxle

Number of forward speeds		5	
Gear ratios	1st	3.545	3.166
	2nd	1.904	
	3rd	1.233	1.310
	4th	0.885	0.969
	5th	0.725	0.815
	Reverse	3.250	
Synchronous meshing (specify gears)		All forward gears (1st, 2nd, 3rd, 4th, and 5th)	
Shift lever location		Floor	
Trans. case mat'l. & mass kg (lbs)*			
Lubricant	Capacity (L (pt.))	2.6L	
	Type recommended	Multi purpose API GL-4	

Clutch (Manual Transmission)

Clutch manufacturer		AISIN SEIKI Co., Ltd.	
Clutch type (dry, wet; single, multiple disc)		Dry single	
Linkage (hydraulic, cable, rod, lever, other)		Hydraulic	
Max. pedal effort (nom. spring load, new) N (lbs)	Depressed		
	Released		
Assist (spring, power/percent, nominal)			
Type pressure plate springs		Diaphragm spring	
Total spring load (nominal, new) N (lbs)		3920 N	
Clutch facing	Facing mfg. & material coding		
	Facing material & construction	Semi-mold	
	Rivets per facing	ø4 mm	
	Outside x inside dia. (nominal)	200 mm x 140 mm	
	Total eff. area (cm ² (in. ²))	160 cm ²	
	Thickness (pressure plate side/ fly wheel side)	3.5 mm	
	Rivet depth (pressure plate side/ fly wheel side)	-	
	Engagement cushion method	Cushion spring	
Release bearing type & method lub.		Single row ball bearing, Sealed grease	
Torsional damping method, springs, hysteresis		Rubber	

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

1988 Format Change

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Engine Description/Carb.
 Engine Code

4A-LC	4A-GEL
-------	--------

Automatic Transmission/Transaxle

Trade name	A131L	A240E	
Type and special features (describe)	Hydraulic pressure controlled planetary gear		
Selector	Location	Floor	
	Ltr./No. designation	PRND2L	
Gear ratios	1st	2.810	3.643
	2nd	1.549	2.008
	3rd	1.000	1.296
	4th	-	0.892
	Reverse	2.296	2.977
Max. upshift speed - drive range (km/h (mph))	1-2: 55 km/h 2-3: 100 km/h	*1	
Max. kickdown speed - drive range (km/h (mph))	2-1: 41 km/h 3-2: 97 km/h	*2	
Min. overdrive speed (km/h (mph))	-	23	
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	7.9L
	Type Recommended	ATF Dexron II	ATF Dexron II
Oil cooler (std., opt., NA, internal, external, air, liquid)	N.A.		
Transmission case material & mass kg (lbs)*	Case: Al Mass: 12 kg	Case: Al Mass: 10 kg	

*1 1-2 (N)51 km/h (P)63 km/h 2-3 (N) 99 km/h (P)114 km/h 3-4 (N)151 km/h (P)183 km/h *2 2-1 (N)46 km/h (P)46 km/h 3-2 (N) 92 km/h (P)107 km/h 4-3 (N)142 km/h (P)175 km/h

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 (shim, other)	-			
Pinion / differential (shim, other)	Collapsible sleeve			
Driving wheel bearing (type)	-			
Lubricant	Capacity (L (pt.))	1.4L	Included in capacity of A/T	
	Type recommended	ATF Dexron II	-	
	SAE viscosity number	Summer	-	
		Winter Extreme cold	-	

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

Axle ratio (or overall top gear ratio)	3.722 x 0.945 (countergear ratio)	2.962	
No. of teeth	Pinion	18	27
	Ring gear or gear	67	80
Ring gear o.d.	-	-	
Transaxle	Transfer gear ratio	-	-
	Final drive ratio	-	-

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

1988 Format Change

MVMA Specifications Form

Vehicle Line _____
 Model Year _____ Issued _____ Revised (e) _____

METRIC (U.S. Customary)

Engine Description/Carb.
 Engine Code

--

Axle Shafts – Front Wheel Drive

Manufacturer and number used		
Type (straight, solid bar, tubular, etc.)	Left	
	Right	
Outer diam. x length* x wall thickness	Manual transmission	Left
		Right
	Automatic transmission	Left
		Right
	Optional transmission	Left
		Right
Slip yoke	Type	
	Number of teeth	
	Spline o.d.	
Universal joints	Make and mfg. no.	Inner
		Outer
	Number used	
	Type, size, plunge	Inner
		Outer
	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 attachment.

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Body Type And/Or
 Engine Displacement

4A-LC	4A-GEL
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Suspension - General

Car leveling	Std./opt./n.a.	N.A.	
	Type (air, hyd., etc.)	-	
	Manual/auto. controlled	-	
Provision for brake dip control		-	
Provision for acct. squat control		-	
Provisions for car jacking		Rocker panel	
Shock absorber (front & rear)	Type	Double-acting telescopic tube	
	Make	Front: DELCO, Rear: Kayaba	Front: TOYOTA, Rear: Kayaba
	Piston diameter	Front: 32 mm, Rear: 25 mm	Front: 32 mm, Rear: 25 mm
	Rod diameter	Front: 20 mm, Rear: 18 mm	Front: 22 mm, Rear: 18 mm

Suspension - Front

Type and description		MacPherson strut	
Travel	Full jounce	80 mm	71 mm
	Full rebound	85 mm	94 mm
Spring	Type (coil, leaf, other) & material	Coil, SUP7NV	
	Insulators (type & material)	Insulator (top and bottom), Rubber	
	Size (coil design height & i.d., bar length x dia.)	N/T: 375 mm x 117.9 mm M/T: 383.5 mm x 117.8 mm (Air conditioned) A/T: 383.5 mm x 117.8 mm A/T: 392 mm x 117.7 mm (Air conditioned)	N/T: 344.5 mm x 127.3 mm M/T: 351 mm x 127.1 mm (Air conditioned) A/T: 351 mm x 127.1 mm A/T: 358 mm x 127 mm (Air conditioned)
	Spring rate [N/mm (lb./in.)]	17.6 N/mm	22.1 N/mm
	Rate at wheel [N/mm (lb./in.)]	18.6 N/mm	24.0 N/mm
Stabilizer	Type (link, linkless, frameless)	N.A.	Link
	Material & bar diameter	N.A.	STKM 15A, ϕ 23

Suspension - Rear

Type and description		MacPherson strut		
Travel	Full jounce	85 mm		
	Full rebound	100 mm	80 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 (88.8~118.7) mm	310.5 mm x (88.4~118.4) mm	
	Spring rate [N/mm (lb./in.)]	18.6 N/mm	22.5 N/mm	
	Rate at wheel [N/mm (lb./in.)]	20.6 N/mm	24.5 N/mm	
	Insulators (type & material)		Insulator (top and bottom), Rubber	
	if leaf	No. of leaves	-	
	Shackle (comp. or tens.)	-		
Stabilizer	Type (link, linkless, frameless)	N.A.	Link	
	Material & bar diameter	N.A.	SUP6, ϕ 16	
Track bar (type)		N.A.		

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Body Type And/Or
 Engine Displacement

4A-LC	4A-GEL
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Brakes - Service

Description					
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc, Std.			
	Rear (disc or drum)	Drum, Std.	Disk, 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 (inline, pump, etc.)		N.A.			
Vacuum reservoir (volume in. ³)		N.A.			
Vacuum pump-type (elec. gear driven, belt driven, if other so state)		N.A.			
Anti-lock device type (std., opt., n.a.) (F/R)		N.A.			
Effective area [cm ² (in. ²)]*		Fr.: 164 cm ² Rr.: 232 cm ²	Fr.: 164 cm ² Rr.: 132 cm ²		
Gross lining area [cm ² (in. ²)]**(F/R)		Fr.: 164 cm ² Rr.: 232 cm ²	Fr.: 164 cm ² Rr.: 132 cm ²		
Swept area [cm ² (in. ²)]**(F/R)		Fr.: 1076 cm ² Rr.: 377 cm ²	Fr.: 1076 cm ² Rr.: 923 cm ²		
Rotor	Outerworking diameter	F/R 243 mm/N.A.	243 mm/242 mm		
	Inner working diameter	F/R 147 mm/N.A.	147 mm/166 mm		
	Thickness	F/R 13.5 mm/N.A.	18 mm/9 mm		
	Material & type (vented-solid)	F/R Cast iron, Solid/N.A.	Cast iron, Vented/Solid		
Drum	Diameter & width	F/R N.A./200.0 mm	N.A./N.A.		
	Type and material	F/R Cast iron	N.A./N.A.		
Wheel cylinder bore		Fr.: 51.10 mm Rr.: 17.46 mm	Fr.: 51.10 mm Rr.: 31.75 mm		
Master cylinder	Bore:stroke	F/R Fr.: 22.22 mm Rr.: 22.22 mm	Fr.: 14.00 mm Rr.: 14.00 mm		
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	Nissin Spinning Co., Ltd.
		Lining code*****		-	
		Material		Resin molded	
		****	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		
	Rear wheel	Bonded or riveted (rivets/seg.)		Bonded	
		Manufacturer		Nissin Spinning Co., Ltd.	
		Lining Code*****		-	
		Material		Resin molded	
		****	Primary or out-board	192 mm x 30 mm x 4 mm	95 mm x 34 mm x 10 mm
		Size	Secondary or in-board	192 mm x 30 mm x 4 mm	95 mm x 34 mm x 10 mm
Shoe thickness (no lining)		1.6 mm	5.5 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 formulation designation and coefficient of friction classification

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Body Type And/Or
 Engine Displacement

4A-LC	4A-GEL
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Tires And Wheels (Standard)

Tires	Size (load range, ply)		P155/80R13(DX)	P175/70R13(CL)	P175/70HR13
	Type (bias, radial, steel, nylon, etc.)		Radial		
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	200 kPa	179 kPa	220 kPa
		Rear (kPa (psi))	200 kPa	179 kPa	220 kPa
	Rev./mile—at 70 km/h (45 mph)		913	954	909
Wheels	Type & material		Wide rim with deep bottom steel		Wide rim with deep bottom steel, Aluminum wheel
	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 size, if other describe)		Tire: T115/70D14 Wheel: 4-Tx14		
	Storage position & location (describe)		Trunk room		

Tires And Wheels (Optional)

Tire size (load range, ply)		P175/70R13
Type (bias, radial, steel, nylon, etc.)		Radial
Wheel (type & material)		Wide rim with deep bottom Aluminum
Rim (size, flange type and offset)		5-Jx13
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
Type (bias, radial, steel, nylon, etc.)		
Wheel (type & material)		
Rim (size, flange type and offset)		
Tire size (load range, ply)		
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)		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)	
	Drum diameter	
	Lining size (length x width x thickness)	

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Body Type And/Or
 Engine Displacement

4A-LC	4A-GEL
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Steering

Manual (std., opt., n.a.)		Std.	N.A.
Power (std., opt., n.a.)		Opt.	Std.
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt	N.A.
	Manufacturer	TOYOTA Motor Corporation	N.A.
	(Std., opt., n.a.)	Std. for CL models only	N.A.
Wheel diameter** (W9) SAE J1100	Manual	380 mm	N.A.
	Power	380 mm	384 mm
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	10.2 m
		Curb to curb (l. & r.)	9.4 m (manual) 9.6 m (power) 9.6 m
	Inside rear	Wall to wall (l. & r.)	5.0 m (manual) 5.3 m (power) 5.3 m
		Curb to curb (l. & r.)	5.3 m (manual) 5.5 m (power) 5.5 m
Scrub Radius*			
Manual	Gear	Type	Rack and pinion N.A.
		Manufacturer	TOYOTA Motor Corporation N.A.
		Ratios	Gear ∞ N.A. Overall 22.67 N.A.
	No. wheel turns (stop to stop)	4.07	N.A.
	Type (coaxial, linkage, etc.)		Integral
Power	Manufacturer		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	4.1
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 hub	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.
 **See Page 21.

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Body Type And/Or
 Engine Displacement

4A-LC	4A-GEL
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Wheel Alignment

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

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

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analogue, Round
	Trip odometer (std., opt., n.a.)	Std.
EGR maintenance indicator		Non
Charge indicator	Type	Electrical
	Warning device (light, audible)	Lamp
Temperature indicator	Type	Electrical gauge
	Warning device (light, audible)	Non
Oil pressure indicator	Type	Electrical
	Warning device (light, audible)	Lamp
Fuel indicator	Type	Electrical gauge
	Warning device (light, audible)	Lamp
Windshield wiper	Type (standard)	Motor, 2-speed
	Type (optional)	Motor, 3-speed
	Blade length	Driver's side: 450 mm Passenger's side: 425 mm
	Swept area (cm ² (in. ²))	5880 cm ²
Windshield washer	Type (standard)	Motor
	Type (optional)	-
	Fluid level indicator (light, audible)	-
Rear window wiper, wiper/washer (std., opt., n.a.)		Opt.
Horn	Type	Electrical, Disc type
	Number used	1
Other		Tacometer - Std.

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Engine Description/Carb.
 Engine Code

4A-LC	4A-GEL
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Electrical - Supply System

Battery	Manufacturer	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	
Alternator	Manufacturer		
	Rating (idle/max. rpm)		
	Ratio (alt. crank/rev.)	1:2.36	1:2.17
	Output at idle (rpm, park)		
	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 idling - A	0.9	
Spark plug	Make	Nippondenso Co., Ltd., NGK Spark Plug Co., Ltd.	Nippondenso Co., Ltd. NGK Spark Plug Co., Ltd.	
	Model	W16EXR-U11, W14EXR-U11*, BPR5EY11, BPR6EY11*	PQ16R, BCPR5EP11	
	Thread (mm)	M14 x 19.0 mm		
	Tightening torque (N·m (lb. ft))	17.7 N·m		
	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	Distributor with frame coating, rotor, Resistive spark plug, Resistive cord
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Ø 1988 Format Change

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Body Type

All models

Body

Structure	Monocoque
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 galvanized steel seat Application of adhesive & PVC sealer to the Hemming are. 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, Twin cam), Mechanical (CL)
Hatch-back lid	Type (counterbalance, other)	Counterbalance
	Internal release control (elec., mech., n.a.)	N.A. (Base), Mechanical (CL)
☐ Tailgate	Type (drop, lift, door)	
	Internal release control (elec., mech., n.a.)	
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	

☐ 1988 Format Change

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

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Body Type

All models

Restraint System

Active restraint system	Standard/optional	Standard
	Type and description	Front: 3-point ELR type 2 cps Rear : 3-point ALR type 2 cps & 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	

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Body Type

All models

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

Air conditioner	Opt.	
Clock (digital, analog)	N.A.	
Compass / thermometer	N.A.	
Console (floor, overhead)	Std. (only floor)	
Defroster, elec. backlight	Opt.	
Electronic	Diagnostic monitor (integrated, individual)	N.A.
	Instrument cluster (list instruments)	N.A.
	Keyless entry	N.A.
	Trip/finder (avg. spd., fuel)	N.A.
	Voice alert (list items)	N.A.
	Other	-
Fuel door lock (remote, key, electric)	Key (Base, Twin cam), Remote (CL)	
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)
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	Opt.
	Vent windows	N.A.
	Rear window	N.A.
Radio systems	Antenna (location, whp, w shield, 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.	
Telephone system - mobile		
Theft protection-type	Steering lock	

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

SAE Ref. No.	4A-1C	4A-GEL
Body Type		
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	W106	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	190 mm
Bottom of door closed-front to grd.	H133	275 mm
Rocker panel-rear to ground	H111	195 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	365 mm
Rear bumper to ground	H104	350 mm	355 mm
Bumper to ground (front at curb mass (wt.))	H103	395 mm	385 mm
Bumper to ground (rear at curb mass (wt.))	H105	400 mm	405 mm
Angle of approach (degrees)	H106	19.0°	18.5°
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	130 mm
Location of min. run. grd. clear.		Federal: Air suction pipe California: Converter	Flexible exhaust pipe

* All vehicle height and ground clearances are measured at the Manufacturer's Design Load Weight.
 Manufacturer's Design Load Weight is defined with indicated passenger distribution and trunk/cargo load, unless otherwise specified.
 All linear dimensions are in millimeters (inches) unless otherwise noted.

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (e) _____

Vehicle Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	All models
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Front Compartment

Sg RP front, "X" coordinate	L31	1350 mm
Effective head room	H61	963 mm
Max. eff. leg room (accelerator)	L34	1078 mm
Sg RP to heel point	H30	278 mm
Sg RP 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 & riding 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. cntr	L11	433.5 mm
Accel. heel pt. to steer. whl. cntr	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	H51	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.)	Compact	
Interior volume index (cu. ft.)	100.0 (Sedan)	105.1 (Lift back)
Trunk/cargo index (cu. ft.)	13.7 (Sedan)	20.0 (Lift back)

* See page 14.

Vehicle Dimensions See Key Sheets for definitions

Body Type	SAE Ref. No.	5-Door Lift back
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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	--
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 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 lip to ground, front	
Wheel lip to ground, rear	
Frontal area (m ² (ft. ²))	
Drag coefficient (Cd)	

* EPA Loaded Vehicle Weight, Loading Conditions

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Body Type

All models

Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location										
Front	The center of outer installation hole for seat track of front floor cross member (both sides)										
Rear	The center of front installation hole for rear seat belt retractor of rear floor (both sides)										
Front	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">W21*</td> <td style="width: 90%;">W5 + 79 mm</td> </tr> <tr> <td>LS4*</td> <td>L20 mm</td> </tr> <tr> <td>H81*</td> <td>H10 + 86 mm</td> </tr> <tr> <td>H161*</td> <td>275 mm</td> </tr> <tr> <td>H163*</td> <td>305 mm</td> </tr> </table>	W21*	W5 + 79 mm	LS4*	L20 mm	H81*	H10 + 86 mm	H161*	275 mm	H163*	305 mm
W21*	W5 + 79 mm										
LS4*	L20 mm										
H81*	H10 + 86 mm										
H161*	275 mm										
H163*	305 mm										
Rear	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">W22*</td> <td style="width: 90%;">W5 + 3 mm</td> </tr> <tr> <td>LS5*</td> <td>L30 + 35 mm</td> </tr> <tr> <td>H82*</td> <td>H11 + 23 mm</td> </tr> <tr> <td>H162*</td> <td>315 mm</td> </tr> <tr> <td>H164*</td> <td>360 mm</td> </tr> </table>	W22*	W5 + 3 mm	LS5*	L30 + 35 mm	H82*	H11 + 23 mm	H162*	315 mm	H164*	360 mm
W22*	W5 + 3 mm										
LS5*	L30 + 35 mm										
H82*	H11 + 23 mm										
H162*	315 mm										
H164*	360 mm										

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

Vehicle Line NOVA
 Model Year 1988 Issued _____ Revised (*) _____

Body Type	4-Door Sedan (4A-LC)	5-Door Lift back	4-Door Sedan (4A-GEL)
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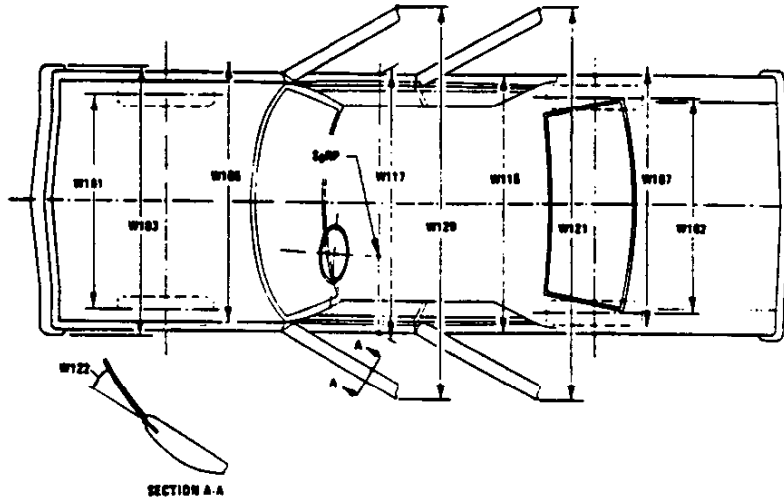
Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	630 mm		620 mm	
		Lowest	-			
	Taillamp (SAE - H128)	Highest**	855 mm	675 mm	860 mm	
		Lowest	835 mm	-	840 mm	
	Sidemarker	Front	625 mm		615 mm	
		Rear	655 mm		660 mm	
Distance from C/L of car to center of bulb	Headlamp	Inside	415 mm			
		Outside**	592 mm			
	Taillamp	Inside	535 mm	580 mm		
		Outside**	668 mm	687 mm		
	Directional	Front	527 mm			
		Rear	668 mm	687 mm		
Halogen headlamp (std., opt., 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				

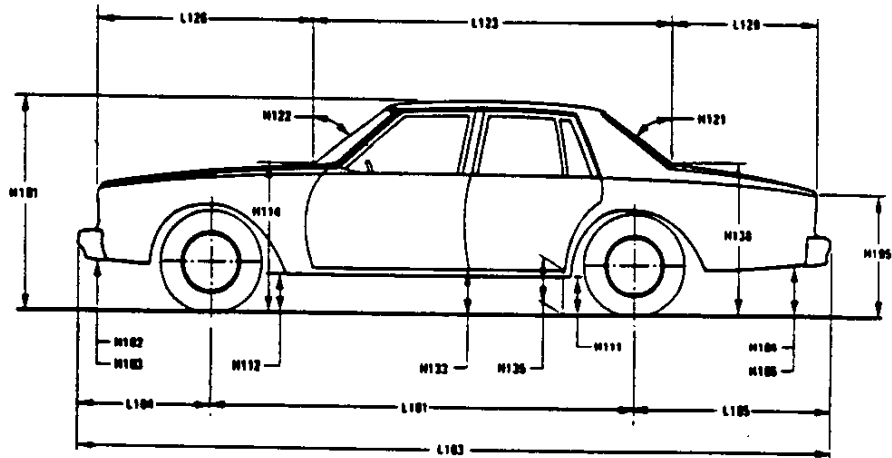
* Measured at curb mass (weight).
 ** If single lamps are used enter here.

Exterior Vehicle And Body Dimensions - Key Sheet

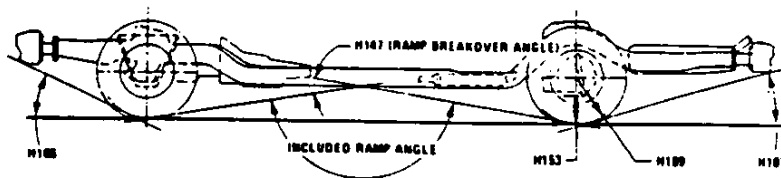
Exterior Width



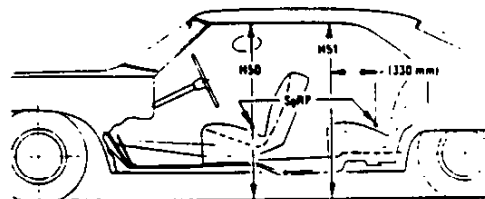
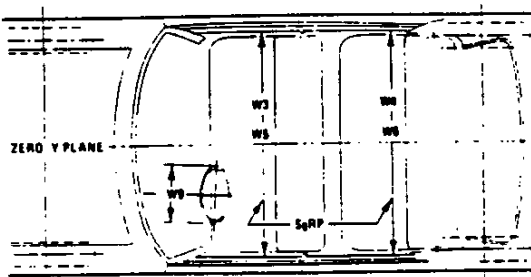
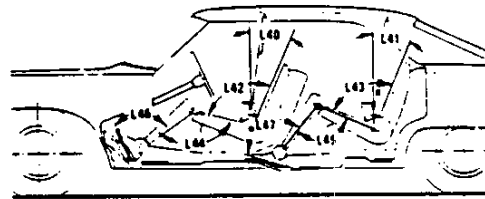
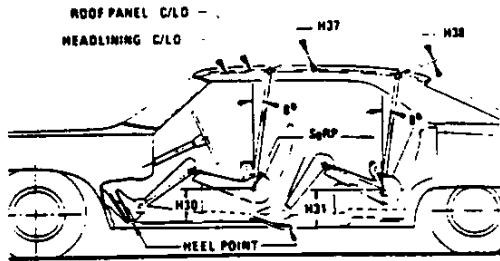
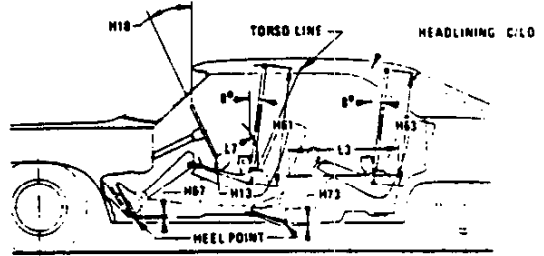
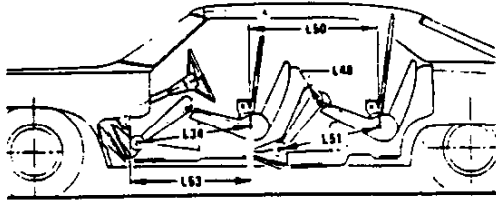
Exterior Length & Height



Exterior Ground Clearance

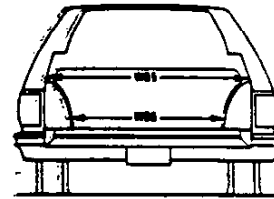
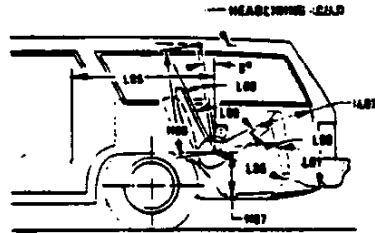


Interior Vehicle And Body Dimensions – Key Sheet

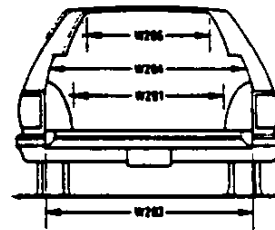
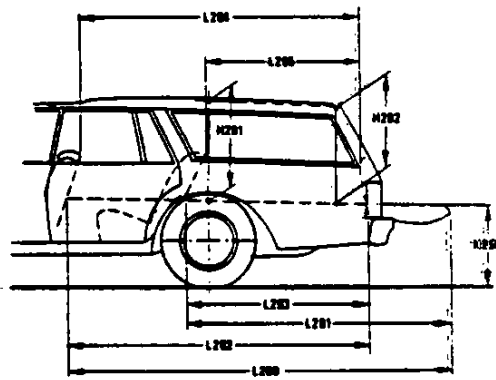


Interior Vehicle And Body Dimensions—Key Sheet

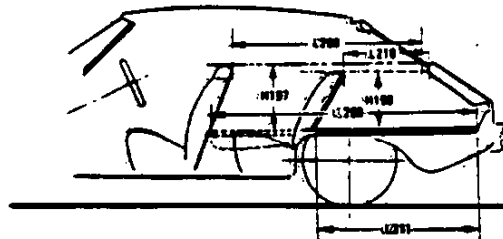
Third Seat



Cargo Space



Station Wagon



Hatchback

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.
- 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.
- H136 DECK POINT TO GROUND. Measured at zero "Y" plane
- H109 STATIC LOAD-TIRE RADIUS-REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

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

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

H104	REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.	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.
H105	REAR BUMPER TO GROUND - CURB MASS (WT.). Measured in the same manner as H104.	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.
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.	L42	HIP ANGLE-FRONT. The angle measured between torso line and thigh centerline.
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.	L44	KNEE ANGLE-FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
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.	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.
H153	REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.	L53	SgRP-FRONT TO HEEL. The dimension measured horizontally from the SgRP-front to the accelerator heel point.
H156	MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.	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.
Glass Areas			
S1	Windshield area.	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.
S2	Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.	W9	STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
S3	Backlight areas.	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.
S4	Total area. Total of all areas (S1 + S2 + S3).	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.
Fiducial Mark Dimensions			
Fiducial Mark - Number 1			
L54	"X" coordinate.	H18	STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
W21	"Y" coordinate.	H30	SgRP-FRONT TO HEEL. The dimension measured vertically from the SgRP-front to the accelerator heel point.
H81	"Z" coordinate.	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.
H161	Height "Z" coordinate to ground at curb weight.	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.
H163	Height "Z" coordinate to ground.	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.).
Fiducial Mark - Number 2			
L55	"X" coordinate.	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.
W22	"Y" coordinate.	PD1	PASSENGER DISTRIBUTION-FRONT.
W82	"Z" coordinate.	Rear Compartment Dimensions	
H162	Height "Z" coordinate to ground at curb weight.	L3	COMPARTMENT ROOM-SECOND. The dimension measured horizontally from the back of the front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.
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. (See SAE J1100)		
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. (See SAE J1100)		
L31	SgRP-FRONT. "X" COORDINATED.		

Interior Vehicle And Body Dimensions – Key Sheet
Dimensions Definitions

- L-41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the 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.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements – head room, shoulder room, hip room, and leg room – for the front and 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 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 51mm (2.0 in.). 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.
- PD3 PASSENGER DISTRIBUTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

Station Wagon – Cargo Space Dimensions

- L200 CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front 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 taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to 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 wheelhouseings at floor level. For any vehicle not trimmed, measure to the sheet metal.

**Interior Vehicle And Body Dimensions – Key Sheet
Dimensions Definitions**

- W203** REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- 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:
$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$

Measured in mm:
$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4** HIDDEN LUGGAGE CAPACITY—REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5** TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:
$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$

Measured in mm:
$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6** TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:
$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$

Measured in mm:
$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- 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:
$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$

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

Hatchback – Cargo Space Dimensions

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

- L208** CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209** CARGO LENGTH AT FLOOR—FRONT—HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- 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:
$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$

Measured in mm:
$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4** HIDDEN LUGGAGE CAPACITY—REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11** HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:
$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$

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

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