



1999 Chevrolet Venture



CHEVY VENTURE



Let's Go!



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Chevy Venture



Focus/Feature

Chevy Venture Extended Wheelbase LS Minivan with Preferred Equipment Group (PEG) 1SC (image above)

The Focus/Feature vehicle for 1999 is the Chevy Venture Extended Wheelbase LS Minivan and PEG 1SC. Important new features for 1999 include available 8-passenger seating, standard heated power outside mirrors and standard rear-window defogger. The Extended Wheelbase LS model represents the best opportunity for high volume Venture sales at your dealership.

Ordering recommendations:

Recommended Venture content, based on anticipated national sales volume, is listed below to assist your dealership in ordering.

LS with PEG 1SC includes:

- Electronic Speed Control
- Power Windows with Driver's Express-Down
- AM/FM Stereo with Cassette Player, Automatic Tone Control and Premium Coaxial Speakers
- Deep-Tinted Glass
- Overhead Roof Console with Driver Information Center
- Power Rear Vent Windows
- Remote Keyless Entry
- 15" Aluminum Wheels.

Popular Colors: Sandrift Metallic, Bright White, Dark Teal Metallic and Medium Redfire Metallic.

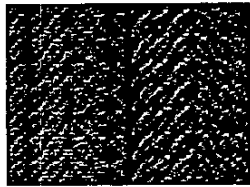
Chevy Venture Owners ... a Closer Look

Venture is the flexible, feature-packed front-wheel-drive minivan for families on the go. It appeals to active, time-challenged families who need ample cargo room but want the driveability of a car. The median age of a Venture buyer is 42.

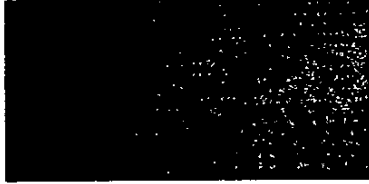
About Dealer Order Guide inserts

The Dealer Order Guide inserts are your first look at Chevy Truck models for 1999. This information is preliminary and is subject to change. Use these inserts to assist in ordering your initial shipments. Most of your volume should come from the Focus vehicle, which is the model chosen for its saleability. It is equipped with the product features that customers want most. (Model, PEG and optional equipment vary by region.) Refer to the Retail Sales Analysis (RSA) to verify or select your dealership's Focus vehicle content. There is also the Feature vehicle, which is the "image" model Chevrolet will profile most in its advertising. This vehicle is meant to capture attention and create consumer awareness.

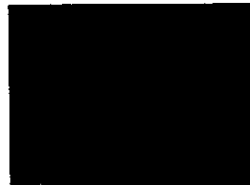
Trim Colors



Base cloth trim available in Medium Gray and Neutral.

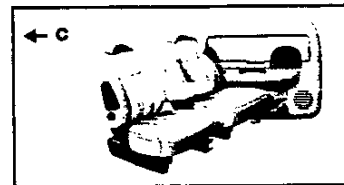
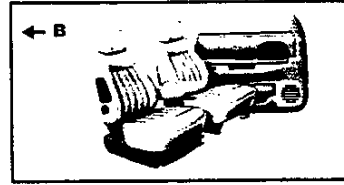
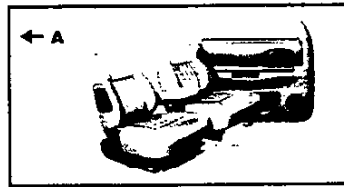


LS Custom Cloth trim available in Dark Teal, Medium Gray and Neutral.



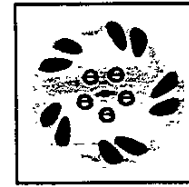
LT Custom Leather seating surfaces available in Light Gray and Light Neutral.

Seat Styles

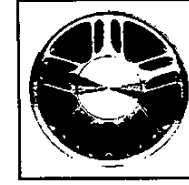


- A. Reclining front bucket seats — require Base model.
- B. Reclining front bucket seats with adjustable lumbar support and adjustable head restraints — require LS model.
- C. Reclining front bucket seats with driver and passenger six-way power adjustment — require LT model.

Wheels



Standard 15" bolt-on wheel cover.



(RPO PH3) Optional 15" cast-aluminum wheel with lock. Included with LS and LT, optional with PEG 1SB.

Most Popular Exterior Colors with Corresponding Interior Color Availability

Interior Material Colors

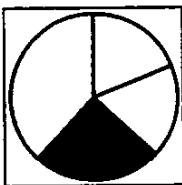
	Dark Teal	Light Gray	Light Neutral	Medium Gray	Neutral
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Exterior Colors

Sandrift Metallic	✓		✓		✓
Bright White	✓	✓	✓	✓	✓
Dark Teal Metallic	✓	✓	✓	✓	✓
Medium Redfire Metallic		✓	✓	✓	✓

See order guide for color availability by model.

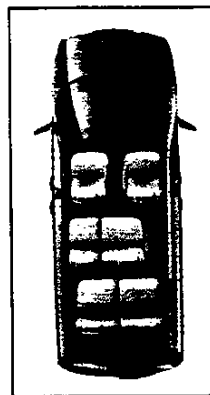
Most Popular Exterior Colors by Percentage



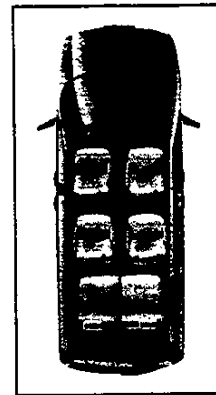
Clockwise, at left, are the four colors anticipated to be the most popular Chevy Venture choices for 1999, based on national sales volume. They are listed for reference only. To identify the top-selling colors in your area by model, use the Retail Sales Analysis (RSA).

Sandrift Metallic (#49)	19%
Bright White (#16)	18%
Dark Teal Metallic (#35)	15%
Medium Redfire Metallic (#72)	10%
Other colors	38%

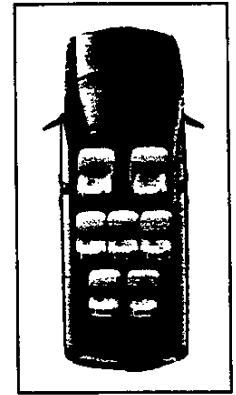
NOTE: New Chevy Venture exterior colors are Silvermist Metallic (#17), Medium Blue Metallic (#30), Medium Fernmist Green Metallic (#31) and Medium Redfire Metallic (#72). Silver Metallic (#13), Dark Granite Metallic (#32), Medium Malachite Metallic (#42) and Medium Lichen Green Metallic (#47) have been cancelled.



Standard 60/40 split-bench second-row and 50/50 split-bench third-row seats are easily folded or removed.



Available second-row captain's seats with three-passenger 50/50 third-row split-bench seat are available on LS model — required with LT model.



Optional seven-passenger modular seating on LS models includes removable bucket seats that can be arranged in up to 32 different seating configurations.

NOTE (not shown): Optional eight-passenger seating on LS model includes three removable bucket seats in the second row and 50/50 split-bench third-row seat.

Chevy Venture

P.D.S.E.I. (New-for-'99 features appear in green.)

P.D.S.E.I. is term used to help organize and explain key features and benefits in five major categories a customer needs and wants. Overall improvements, changes and deletions are highlighted. Please review the supplied information, keeping in mind that this material is provided to you before production start-up — and may change.



Chevy Venture

PERFORMANCE



- **FULLY ELECTRONICALLY CONTROLLED AUTOMATIC TRANSMISSION** — for virtually seamless shifts.
- **AVAILABLE TRACTION CONTROL** — can help minimize loss of traction on slippery surfaces.
- **STANDARD 3400 V6 ENGINE WITH SEQUENTIAL FUEL INJECTION** — provides impressive power, quiet performance and smooth operation. This engine delivers 185 horsepower, more standard power than most other minivans.
- **3,500 lb.-TOWING CAPACITY** — when properly equipped and with optional trailering provisions.
- **TIGHT TURNING DIAMETER** — only 37.4 ft. (Regular Wheelbase) or 39.7 ft. (Extended Wheelbase) for easy maneuvering in city traffic.

DURABILITY



- **LONG-LIFE AUTOMATIC TRANSMISSION FLUID** — scheduled to be changed for the first time at 100,000 miles under normal operating conditions.¹
- **NO NEED TO CHECK ENGINE TIMING EVER** — helps hold down maintenance costs.
- **PLATINUM-TIP SPARK PLUGS** — helps the 3400 V6 engine travel up to 100,000 miles before its first scheduled maintenance.¹
- **EXTENDED-LIFE ENGINE COOLANT** — has a first scheduled replacement interval of five years or 150,000 miles, whichever comes first.¹
- **BUMPER TO BUMPER WARRANTY** — a 3-year/36,000-mile, no deductible, limited warranty, 24-Hour Roadside Assistance via a toll-free hot line and Courtesy Transportation,² if the vehicle ever needs warranty work.

SAFETY



- **STANDARD REAR-WINDOW DEFOGGER** — helps improve driver's rearward visibility in inclement weather.
- **HEATED OUTSIDE MIRRORS** — enhance driver visibility in inclement weather.
- **NEXT GENERATION DRIVER AND RIGHT FRONT-PASSENGER AIR BAGS³** — designed to help protect against injury in certain moderate to severe frontal collisions.
- **STANDARD SIDE-IMPACT AIR BAGS⁴** — help reduce the chance of injury to driver and front passenger in certain moderate to severe side impacts.
- **4-WHEEL ANTI-LOCK BRAKE SYSTEM (ABS)** — standard on all models, helps reduce wheel lockup while braking hard on most slippery surfaces.
- **AVAILABLE INTEGRATED SINGLE OR DUAL CHILD SAFETY SEAT(S)⁵** — designed for use by children at least one year of age, who are between 22 and 40 lbs. and between 33.5 and 40 inches in height, and who are capable of sitting upright, alone.

EXTERIOR



- **FOUR NEW EXTERIOR COLORS** — Silvermist Metallic, Medium Blue Metallic, Medium Fernmist Green Metallic and Medium Redfire Metallic.
- **P215/70R-15 TIRES** — help enhance ride quality.
- **IMPROVED SOLAR-RAY SOLAR-CONTROL WINDSHIELD** — helps protect interior fabrics from fading and helps keep interior cool.
- **WINDSHIELD-INTEGRATED ANTENNA** — prevents antenna vandalism or damage from a car wash.
- **AVAILABLE DUAL SLIDING SIDE DOORS** — make entry and exit easy.
- **AVAILABLE POWER PASSENGER-SIDE SLIDING DOOR** — includes child security rear-door lock system, anti-jam feature, mechanical override and convenient driver-side operation.

INTERIOR



- **EIGHT-PASSENGER SEATING AVAILABLE ON LS MODELS** — includes three second-row removable bucket seats and third-row 50/50 split-bench seat.
- **SEVEN-PASSENGER SEATING WITH STANDARD 60/40 SPLIT-BENCH SECOND-ROW AND 50/50 SPLIT-BENCH THIRD-ROW SEATS** — includes two front bucket seats. Second- and third-row seats can be easily folded or removed to meet changing seating requirements.
- **AVAILABLE LT CUSTOM LEATHER SEATING SURFACES** — for a more luxurious interior.
- **FILTRETE™ STANDARD CHARCOAL ODOR AND PARTICLE FILTER** — helps minimize pollen and objectionable odors in the cabin air.
- **SCOTCHGARD™ PROTECTOR** — on seat fabrics, carpeting and floor mats makes cleanups quick and easy.
- **IMPRESSIVE CARGO SPACE** — 155.9 cu. ft. on Extended Wheelbase 4-Door model can accommodate 4' x 8' sheets of plywood with the tailgate closed.

¹ Maintenance needs vary with different uses and driving conditions. See owner's manual for details. ² At participating dealerships. ³ Always use safety belts and proper child restraints, even with Next Generation air bags. See owner's manual for more safety information. ⁴ Front-seat thoracic side-impact air bags on both the driver's and passenger's side work with the vehicle's body-side structure to help reduce the risk of injury to front-seat occupants' rib and chest areas in side impacts, such as those that occur in some intersection collisions. ⁵ Requires second-row split-bench or modular seating.

Key Competitors

- Dodge Grand Caravan
- Plymouth Grand Voyager
- Ford Windstar
- Mercury Villager
- Nissan Quest
- Toyota Sienna
- Mazda MPV
- Honda Odyssey

New for 1999

- The Venture 3400 V6 engine has five more horsepower than last year — 185 @ 5200 rpm.
- New LT trim level gives Venture buyers three trim levels from which to choose — Base, LS and LT.
- New LT model features durable Custom Leather seating surfaces with captain's seats.
- Heated outside mirrors and defoggers are now standard on Chevy Venture. These important safety features enhance driver visibility in inclement weather.
- Split-bench 60/40 second-row and 50/50 third-row seats are now standard in all Chevy Venture models for even greater seating flexibility.
- Charcoal has been added to the standard pollen filter for Chevy Venture. It helps minimize objectionable odors coming from outside the vehicle and into the passenger compartment.

Deletions

- Self-sealing touring radial tires are no longer included as part of the Safety and Security Package with the content theft-deterrent system. Each is an individual option available on LS and LT models.
- Four exterior colors have been deleted for 1999: Silver Metallic, Dark Granite Metallic, Medium Malachite Metallic and Medium Lichen Green Metallic and have been replaced by four new colors: Silvermist Metallic, Medium Blue Metallic, Medium Femmist Green Metallic and Medium Redfire Metallic.

Forecasted Percent of Mix

MODELS	
Chevy Venture Regular Wheelbase	20%
Chevy Venture Extended Wheelbase	80%
Total	100%
TRIM LEVELS	
Base	40%
LS	50%
LT	10%
Total	100%
ENGINES	
3400 V6 SFI	100%
Total	100%
TRANSMISSIONS	
4-Speed Electronically Controlled Automatic with Overdrive	100%
Total	100%

Other Significant Features

- Safety, a major concern for today's active families, is also one of the Chevy Venture strong suits. In addition to the standard driver and front-passenger air bags,* Venture boasts side-impact air bags.† These important safety features work with the vehicle's body-side structure to help reduce the risk of injury to front-seat occupants' rib and chest areas in side impacts, such as those that occur in some intersection collisions. Venture also surrounds passengers with an integrated, continuous structure design and ladder-frame construction, part of the uni-body structure itself. Side door beams provide added strength and security. Four-wheel anti-lock brakes, Daytime Running Lamps with Automatic Exterior Lamp Control, all-season tires, brake/transmission shift interlock, large exterior power heated mirrors and rear window defogger are also standard.

**Always use safety belts and proper child restraints, even with Next Generation air bags. See owner's manual for more safety information. Front-seat thoracic side-impact air bags on both the driver's and passenger's side work with the vehicle's body-side structure to help reduce the risk of injury to front-seat occupants' rib and chest areas in side impacts, such as those that occur in some intersection collisions.*

- Chevy Venture offers many major features not available on Dodge Grand Caravan or Plymouth Grand Voyager. Be sure to include these features in your walkaround when selling to current Dodge or Plymouth owners as well as Venture prospects:
 - 3400 V6 engine with 185 hp — more standard horsepower
 - Available eight-passenger seating
 - An important Venture exclusive:† Optional modular bucket seats can be arranged in up to 32 different seating configurations for flexibility not found on Dodge or Plymouth minivans. Modular seats weigh as little as 38 lbs. each
 - Center console storage bin (can be removed and locked in the glove box)
 - 8.3 Liter glove box (three times larger than Dodge or Plymouth glove boxes)
 - 2" wider sliding side door
 - Available power passenger-side sliding door on Chevy Venture Extended Wheelbase model.
 - 40/60 split-bench second-row and 50/50 split-bench third-row seats are now standard
 - Temperature control for available rear heating, venting and air conditioning
 - Available dual-mode sound system
 - Up to 26 convenient storage locations vs. 18 on Chrysler minivans
 - Up to 17 cup holders
 - Daytime Running Lamps
 - Scotchgard™ Protector on cloth seats, cloth trim panels and carpeted surfaces.

**Excludes other GM vehicles.*

VENTURE (PASSENGER VAN)

STANDARD EQUIPMENT SUMMARY

3DR REQ W/B IN AT STOP TARGET 142-61
 1UN06 1UN16 1UM16

CHASSIS

		1UN06	1UN16	1UM16
AXLE RATIO:	3.29	S	S	S
BATTERY:	RUN DOWN PROTECTION	S	S	S
BRAKES:	4-WHEEL ANTI-LOCK POWER FR DISC/REAR DRUM	S	S	S
ENGINE:	3400 V6 SFI	S	S	S
FUEL CAPACITY:	20 GALLON	S	S	-
	25 GALLON	-	-	S
GENERATOR:	105 AMP	S	S	S
STEERING:	POWER	S	S	S
SUSPENSION:	SMOOTH RIDE	S	S	S
TRANSMISSION:	4-SPEED AUTOMATIC	S	S	S
	BRAKE SHIFT INTERLOCK	S	S	S

INTERIOR

AIR BAGS:	NEXT GENERATION DRIVER AND PASSENGER, FRONTAL	S	S	S
	NEXT GENERATION DRIVER AND FRONT PASSENGER, SID	S	S	S
AIR CONDITIONING:	FRONT	S	S	S
ANCHORS:	CARGO	S	S	S
ASSIST HANDLES:	PILLAR MOUNTED (2 ON 4-DOOR MODELS)	S	S	S
CONSOLE:	VERTICAL INSTRUMENT PANEL	S	S	S
CONSOLETTA:	OVERHEAD	S	S	S
CUPHOLDERS:	1ST, 2ND, 3RD ROW	S	S	S
DEFOGGER:	REAR WINDOW ELECTRIC	S	S	S
FILTERS:	FILTRETE @ PARTICLE AND ODOR CABIN AIR	S	S	S
FLOOR MATS:	CARPETED FRONT AND REAR	S	S	S
GLASS:	TINTED, SOLAR FRONT, ALL WINDOWS	S	S	S
LIGHTING:	INTERIOR- GLOVE BOX, ASH TRAY, CONSOLETTA,			
	DOME AND REAR CARGO	S	S	S
	INTERIOR ROOF RAIL READING 3RD ROW	-	S	S
FABRIC PROTECTOR:	SCOTCHGARD INCLS SEATS, FLOOR COVERING AND	S	S	S
	DOOR TRIM			
MIRROR:	INSIDE DAY/NIGHT REARVIEW	S	S	S
PASSKEY:	THEFT DETERRENT	S	S	S
POWER POINT:	FRONT AND REAR AUXILIARY	S	S	S
<i>2007 to 10/12/11</i> <i>2-98.</i>	<u>RADIO:</u> AM/FM STEREO W/SEEK FEATURE AND DIGITAL CLOCK	S	S	S
	SEATING: (2) FRONT BUCKET			
	(2) PASSENGER 40/60 BENCH 2ND ROW			
	(3) PASSENGER 50/50 BENCH 3RD ROW	S	S	S
SENSORS:	LOW OIL, LOW COOLANT	S	S	S
STEERING COLUMN:	TILT TYPE	S	S	S
SUNVISOR:	RH/LH W/VANITY MIRROR AND MAP HOLDER	S	S	S
WARNING TONE:	TURN SIGNAL 'ON' REMINDER CHIME	S	S	S
WINDOWS:	MANUAL DRIVER/PASSENGER FRONT, MANUAL			
	SWINGOUT REAR QUARTER	S	S	S

VENTURE (PASSENGER VAN)

STANDARD EQUIPMENT SUMMARY

1UN06 1UN16 1UM16

EXTERIOR

ANTENNA:	WINDSHIELD INTEGRATED	S	S	S
BUMPER/FASCIA:	FRONT AND REAR BODY COLOR	S	S	S
EXHAUST SYSTEM:	STAINLESS STEEL	S	S	S
HEADLAMPS:	COMPOSITE HALOGEN W/AUTO HEADLIGHT CONTROL	S	S	S
LIGHTS:	AUTOMATIC DAYTIME RUNNING	S	S	S
LOCK:	CHILD SAFETY SLIDING DOORS	S	S	S
LOCKS:	POWER W/SLIDING DOOR DELAY (PROGRAMMABLE)	S	S	S
MIRRORS:	OSRV LH/RH BLACK POWER REMOTE HEATED	S	S	S
MOLDINGS:	BLACK, BODYSIDE	S	S	S
PAINT:	BASE COAT/CLEAR COAT	S	S	S
TAILGATE:	ONE-PIECE	S	S	S
TIRES:	P215/70R-15 ALS BW	S	S	S
	COMPACT SPARE W/UNDERBODY CARRIER W/HOIST	S	S	S
WEAR INDICATORS:	TIRE TREAD	S	S	S
WHEEL COVERS:	15" COMPOSITE BOLT-ON	S	S	S
WHEELS:	15 X 6 STEEL	S	S	S
WIPERS:	VARIABLE WINDSHIELD, REAR WINDOW W/FIXED/ DELAY/WASHER	S	S	S

VENTURE (PASSENGER VAN)

Model 1UN06/1UN16 (Regular Wheel Base)

MODEL AND BODY

DESCRIPTION	MODEL	WHEELBASE	DESCRIPTION	MODEL	WHEELBASE
3-DOOR REGULAR WHEELBASE			4-DOOR REGULAR WHEELBASE		
VENTURE.....	1UN06	112"	VENTURE.....	1UN16	112"

MATCH 1A7 STOP. TARGET STARTUP 11-2-93

PREFERRED VEHICLE

NO DELETIONS ALLOWED. ADDITIONAL OPTIONS/SUBSTITUTIONS (WHERE INDICATED)
MAY BE ORDERED FROM THE ADDITIONAL OPTIONS LISTINGS

MATCH 1A7 STOP - TARGET 11-2-93.

	1SA	1SB	1SC
Base Equipment Group	x	x	x
Preferred Equipment Group 1			
Deep Tinted Glass		x	x
Power Windows w/Driver Express Down		x	x
Remote Keyless Entry		x	x
Speed Control w/Resume Speed		x	x
Preferred Equipment Group 2 (1UN16 Only)			
LS Trim Package (Incls Front Custom Cloth Bucket Seats w/Driver and Front Passenger Adjustable Lumbar Support, Adjustable Head Rests, Custom Cloth Trim on Seats and Interior Trim Panels, Liftgate Cargo Net and Power Rear Vent Windows)			x
Aluminum Wheels			x
AM/FM Stereo Radio w/Cassette w/ATC and Premium Front and Rear Coaxial Speakers			x
Luggage Carrier			x
Overhead Roof Console w/Driver Info Center			x

ADDITIONAL OPTIONS

OPTION

ACKNOWLEDGMENTS:

- R8S Multiple Order Numbers
- R8T Preliminary Invoice
- VK3 **BRACKET:** License Plate, Front
- E58 **DOOR:** Power Sliding (Passenger Side) (w/1SB Includes Power Rear Quarter Vent Windows) (N/A 1SA)

VENTURE (PASSENGER VAN)

ADDITIONAL OPTIONS

OPTION

EMISSION: (MUST SPECIFY) (Refer Emission Requirements Tab Section)

- FE9 Federal Emission Requirements
- NG1 Connecticut, District Of Columbia, Delaware, Massachusetts, Maryland, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
- YF5 California Emission Requirements
- NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI, or VA Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)

K05 **HEATER:** Engine Block

V54 **LUGGAGE CARRIER:** (Incl w/1SC) (N/A 1SA)

RADIO EQUIPMENT:

- UL0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Cassette and Theft Lock (Incl w/1SC) (Incls Premium Front and Rear Coaxial Speakers)
- UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock and Cassette Tape (N/A 1SC)
- UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone Control, Compact Disc Player, Theft Lock and Speed Compensated Volume (Incls Premium Front and Rear Coaxial Speakers)
- UN7 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Cassette Tape w/Auto Reverse, Auto Tone Control, Digital Clock, Theft Lock, Speed Compensated Volume, Remote Compact Disc Player (Incls Premium Front and Rear Coaxial Speakers)

UK6 **REAR SEAT AUDIO CONTROLS:** (w/Earphone Jacks) (Reqs UL0, UN0 or UN7 Radio) (Reqs 1SC)

SEATING: (Must Specify)

- ZP7 7-Passenger Seating, 2nd Row 60/40 Split Bench and 3rd Row 50/50 Split Bench
- ZP8 8-Passenger Seating, 3 Bucket Seats 2nd Row and 3rd Row 50/50 Split Bench Seating (Reqs 1SC)

AG1 **SEATS POWER:** 6-Way Driver Side (Reqs 1SC)

SEATING ARRANGEMENTS:

- ABB 7-Passenger Rear Bucket Seats (Reqs 1SC and ZP7 Seating)
- ABD 7-Passenger 2nd Row Captain's Chairs and 3rd Row 50/50 Split Bench Seating (Reqs 1SC and ZP7 Seating)
- AN2 One Integral Child Seat (w/Bucket Seats Reqs ABB/ZP8 Seating) (N/A ABD Seating)
- AN5 Dual Integral Child Seats Available (w/Bucket Seats Reqs ABB/ZP8 Seating) (N/A ABD Seating)

UA6 **SECURITY SYSTEM:** (Content Theft Deterrent) (Reqs 1SC)

FE3 **SUSPENSION:** Touring (Reqs 1SC) (Incls Load Leveling Suspension w/Auxiliary Air Inflator and XPU Tires)

TIRES:

- XPU P215/70R-15 Touring Radial (Reqs 1SC)
- P42 P215/70R-15 Self Sealing Touring Radial (Incls XPU Tires) (Reqs 1SC)

NW9 **TRACTION CONTROL:** (Reqs 1SC)

V92 **TRAILERING PROVISIONS:** (Reqs 1SC and FE3 Suspension) (Incls H.D. Cooling w/Engine and Transmission Oil Cooling)

VENTURE (PASSENGER VAN)

Model 1UM16 (Extended Wheel Base)

MODEL AND BODY

DESCRIPTION	MODEL	WHEELBASE
4-DOOR EXTENDED WHEELBASE		
VENTURE.....	1UM16	120"

*material stop due to plant ramp start place
Ingrat start 11-298*

PREFERRED VEHICLE

NO DELETIONS ALLOWED. ADDITIONAL OPTIONS/SUBSTITUTIONS (WHERE INDICATED) MAY BE ORDERED FROM THE ADDITIONAL OPTIONS LISTINGS

	1SA	1SB	1SC	1SD
Base Equipment Group	x	x	x	x
Preferred Equipment Group 1				
Speed Control w/Resume Speed		x	x	x
Deep Tinted Glass		x	x	x
Power Windows w/Driver Express Down		x	x	x
Remote Keyless Entry		x	x	x
Preferred Equipment Group 2				
LS Trim Package (Incls Front Custom Cloth Bucket Seats w/Driver and Front Passenger Adjustable Lumbar Support, Adjustable Head Rests, Custom Cloth Trim on Seats and Interior Trim Panels, Liftgate Cargo Net and Power Rear Vent Windows)			x	
Aluminum Wheels			x	x
AM/FM Stereo Radio w/Cassette w/ATC w/Premium Front and Rear Coaxial Speakers			x	
Luggage Carrier			x	x
Overhead Roof Console w/Driver Info Center			x	x
Preferred Equipment Group 3 (Reqs Leather Trim)				
LT Trim Package (Incls 7-Passenger Custom Cloth Seating (2nd Row Captain's Seats and 3rd Row 50/50 Split Bench Seating) w/Driver and Front Passenger Adjustable Lumbar Support, Adjustable Head Rests, Liftgate Cargo Net and Power Vent Windows)				x
AM/FM Stereo Radio w/Seek-Scan, Cassette w/Auto Reverse, Auto Tone Control, Digital Clock, Theft Lock, Speed Compensated Volume, Remote Compact Disc Player, Front and Rear Coaxial Speakers				x
Front and Rear Air				x
Power Seat 6-Way (Driver and Passenger Side) <i>(also includes power passenger seat w/leather interior)</i>				x
Power Sliding Doors				x
Rear Seat Audio Controls				x
Security System				x
Touring Suspension				x
Traction Control				x

VENTURE (PASSENGER VAN)

ADDITIONAL OPTIONS

OPTION

- ACKNOWLEDGMENTS:**
- R8S Multiple Order Numbers
R8T Preliminary Invoice
C34 **AIR CONDITIONING:** Front and Rear (Incl w/1SD) (N/A 1SA)
VK3 **BRACKET:** License Plate, Front
E58 **DOOR:** Power Sliding (Passenger Side) (w/1SB Includes Power Rear Quarter Vent Windows)
(Incl w/1SD) (N/A 1SA)
EMISSION: (MUST SPECIFY) (Refer Emission Requirements Tab Section)
- FE9 Federal Emission Requirements
NG1 Connecticut, District Of Columbia, Delaware, Massachusetts, Maryland, New Hampshire,
New Jersey, New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
YF5 California Emission Requirements
NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI, or VA Emission Override (Reqs FE9 Emissions)
NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)
K05 **HEATER:** Engine Block
V54 **LUGGAGE CARRIER:** (Incl w/1SC/1SD) (N/A 1SA)
RADIO EQUIPMENT:
- UL0 Electronically Tuned AM/FM Stereo w/Seek-Scan, Digital, Clock, Automatic Tone Control,
Cassette and Theft Lock (Incls Premium Front and Rear Coaxial Speakers) (Incl w/1SC)
(N/A 1SA/1SD)
UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock and Cassette Tape
(N/A 1SC/1SD)
UN0 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock, Automatic Tone
Control, Compact Disc Player, Theft Lock and Speed Compensated Volume
(Incls Premium Front and Rear Coaxial Speakers) (N/A 1SD)
UN7 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Cassette Tape w/Auto Reverse,
Auto Tone Control, Digital Clock, Theft Lock, Speed Compensated Volume, Remote
Compact Disc (Incls Premium Front and Rear Coaxial Speakers) (Incl w/1SD)
UK6 **REAR SEAT AUDIO CONTROLS:** (w/Earphone Jacks) (Reqs UL0, UN0 or UN7 Radio)
(Incl w/1SD) (N/A 1SA/1SB)
SEATING: (Must Specify)
- ZP7 7-Passenger Seating, 2nd Row 60/40 Split Bench and 3rd Row 50/50 Split Bench
ZP8 8-Passenger Seating, 3 Bucket Seats 2nd Row and 3rd Row 50/50 Split Bench Seating
(Reqs 1SC/1SD and Custom Cloth Seating)
AG1 **SEATS POWER:** 6-Way Driver Side (N/A 1SA/1SB) (Incl w/1SD)
SEATING ARRANGEMENTS:
- ABB 7-Passenger Rear Bucket Seats (Reqs 1SC and ZP7 Seating)
ABD 7-Passenger 2nd Row Captain's chairs and 3rd Row 50/50 Split Bench Seating
(Incl w/1SD) (Reqs ZP7 Seating) (N/A 1SA/1SB)
AN2 One Integral Child Seat (w/Rear Bucket Seat Reqs ABB/ZP8 Seating) (N/A ABD Seating)
AN5 Dual Integral Child Seats (w/Bucket Seats Reqs ABB/ZP8 Seating) (N/A ABD Seating)
UA6 **SECURITY SYSTEM:** (Content Theft Deterrent) (Incl w/1SD) (N/A 1SA/1SB)
FE3 **SUSPENSION:** Touring (Incls Load Leveling Suspension w/Auxiliary Air Inflator and XPU Tires)
(Incl w/1SD) (N/A 1SA/1SB)
TIRES:
- XPU P215/70R-15 Touring Radial (Reqs 1SC)
P42 P215/70R-15 Self Sealing Touring Radial (Incls XPU Tires) (N/A 1SA/1SB)
NW9 **TRACTION CONTROL:** (Incl w/1SD) (N/A 1SA/1SB)
V92 **TRAILERING PROVISIONS:** (Reqs 1SC/1SD and FE3 Suspension) (Incls H.D. Cooling w/Engine
and Transmission Oil Cooling)

VENTURE (PASSENGER VAN)

INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations Available.

*37C, 142, 522 } (Material stop)
(Rapid stock plan)*

TRIM LEVEL	INTERIOR COLORS				
	Dk Teal	Med Gray	Neutral	Med Gray	Med Neutral
(a) Cloth Reclining Bucket	-	14B	52B	--	--
(b) Custom Cloth Reclining Bucket	(d) 37C	14C	52C	--	--
(c) Leather Reclining Bucket	-	-	-	142	522

2001 model →
11 (unavailable) →
2000 model →
2001 model →
2000 model →

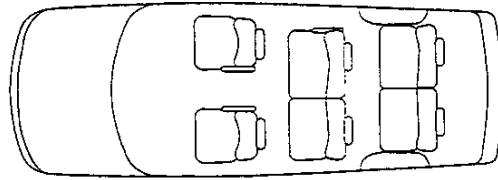
Exterior Colors Solid Paint	Color Code	RECOMMENDED INTERIOR TRIM COLORS				
		Dk Teal	Med Gray	Neutral	Med Gray	Med Neutral
Blue, Med (Met)	30U		x	x	x	x
Green, Fernmist Med (Met)	31U		x	x	x	x
Red, Carmine	09U		x	x	x	x
Redfire, Med (Met)	72U		x	x	x	x
Sandrift (Met)	49U	x		x		x
Sapphire, Dk (Met)	28U		x	x	x	x
Silvermist (Met)	17U	x	x		x	
Teal, Dk (Met)	35U	x	x	x	x	x
White, Bright	16U	x	x	x	x	x

- (a) N/A "LS/LT" Trim Level
- (b) Reqs "LS/LT" Trim Level
- (c) Reqs 1SD and ZP7 Seating
- (d) N/A 1SD

VENTURE (PASSENGER VAN)

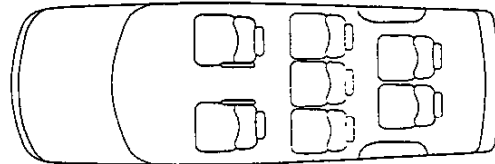
AVAILABLE SEATING ARRANGEMENTS

(See Additional Options for Restrictions)

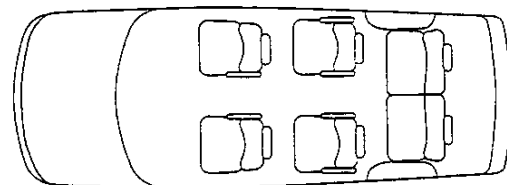


(Base)

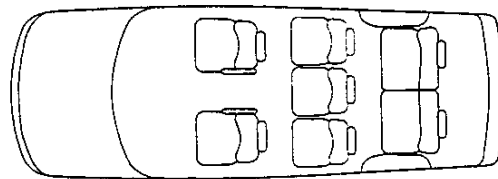
**7 Passenger 2nd Row 60/40 Split Bench
3rd Row 50/50 Split Bench
ZP7**



**7 Passenger Rear Bucket Seats
ABB**



**7 Passenger 2nd Row Captain's Seat
3rd Row Split Bench
ABD**



**8 Passenger 2nd Row 3 Bucket Seats
3rd Row Split Bench
ZP8**

VENTURE (CARGO VAN)

STANDARD EQUIPMENT SUMMARY

CHASSIS

		1UM16-Z10
AXLE RATIO:	3.29	S
BATTERY:	RUNDOWN PROTECTION	S
BRAKES:	4-WHEEL ANTI-LOCK POWER FR DISC/REAR DRUM	S
ENGINE:	3400 V6 SFI	S
FUEL CAPACITY:	25 GALLON	S
GENERATOR:	105 AMP	S
SPRINGS:	H. D. REAR	S
STEERING:	POWER, REDUCED EFFORT	S
SUSPENSION:	SMOOTH RIDE	S
TRANSMISSION:	4-SPEED AUTOMATIC	S
	BRAKE SHIFT INTERLOCK	S

INTERIOR

AIR BAGS:	NEXT GENERATION DRIVER AND FRONT PASSENGER	S
	NEXT GENERATION DRIVER AND FRONT PASSENGER, SIDE	S
AIR CONDITIONING:	FRONT	S
ASSIST HANDLES:	PILLAR MOUNTED (2 ON 4-DOOR MODELS)	S
CONSOLE:	VERTICAL INSTRUMENT PANEL	S
CONSOLETTA:	OVERHEAD	S
CUPHOLDERS:	FRONT SEAT	S
DEFOGGER:	REAR WINDOW DEFOGGER	S
FILTER:	FILTRERE ® PARTICLE AND ODOR CABIN AIR	S
FLOOR COVERING:	RUBBER MAT, FULL LENGTH	S
GLASS:	TINTED, SOLAR-RAY, ALL WINDOWS	S
LIGHTING:	INTERIOR- GLOVE BOX, ASH TRAY, CONSOLETTA, DOME AND REAR CARGO	S
MIRROR:	INSIDE DAY/NIGHT REARVIEW	S
PASSKEY:	THEFT DETERRENT	S
POWER POINT:	FRONT AUXILIARY	S
<u>RADIO:</u>	AM/FM STEREO W/SEEK FEATURE AND DIGITAL CLOCK W/DUAL FRONT SPEAKERS	S
SEATS:	DRIVER AND FRONT PASSENGER VINYL HIGHBACK BUCKETS	S
SENSORS:	LOW OIL, LOW COOLANT	S
STEERING COLUMN:	TILT TYPE	S
SUNVISOR:	RH/LH W/VANITY MIRROR AND MAP HOLDER	S
WARNING TONE:	TURN SIGNAL WITH 'ON' REMINDER CHIME	S
WINDOWS:	MANUAL DRIVER/PASSENGER FRONT, MANUAL SWINGOUT REAR QUARTER	S

*1M7 MAT STOP
is not 117.94.*

VENTURE (CARGO VAN)

STANDARD EQUIPMENT SUMMARY

EXTERIOR

1UM16-Z10

ANTENNA:	WINDSHIELD INTEGRATED	S
BUMPER/FASCIA:	FRONT AND REAR BODY COLOR	S
EXHAUST SYSTEM:	STAINLESS STEEL	S
HEADLAMPS:	COMPOSITE HALOGEN W/AUTOMATIC HEADLIGHT CONTROL	S
LIGHTS:	AUTOMATIC DAYTIME RUNNING	S
LOCK:	CHILD SAFETY SLIDING DOORS	S
LOCKS:	POWER W/SLIDING DOOR DELAY (PROGRAMMABLE)	S
MIRRORS:	OSRV LH/RH BLACK POWER REMOTE HEATED	S
MOLDINGS:	BLACK, BODYSIDE	S
PAINT:	BASE COAT/CLEAR COAT	S
TAILGATE:	ONE-PIECE	S
TIRES:	P215/70R-15 ALS BW	S
	COMPACT SPARE W/UNDERBODY CARRIER W/HOIST	S
WEAR INDICATORS:	TIRE TREAD	S
WHEEL COVERS:	15" COMPOSITE BOLT-ON	S
WHEELS:	15 X 6 STEEL	S
WIPERS:	VARIABLE WINDSHIELD, REAR WINDOW W/FIXED/ DELAY/WASHER	S

*MATERIAL STOP 1UM16 1SE 1SF
TABLE 11-2-94*

VENTURE (CARGO VAN)

Model 1UM16 (Extended Wheel Base)

MODEL AND BODY

DESCRIPTION	MODEL	WHEELBASE
4-DOOR EXTENDED WHEELBASE		
VENTURE.....	1UM16	120"

PREFERRED VEHICLE

NO DELETIONS ALLOWED. ADDITIONAL OPTIONS/SUBSTITUTIONS (WHERE INDICATED)
MAY BE ORDERED FROM THE ADDITIONAL OPTIONS LISTINGS

	1SE	1SF
Base Equipment Group	x	x
Preferred Equipment Group 1		
Speed Control w/Resume Speed		x
Power Windows w/Driver Express Down		x
Remote Keyless Entry		x

ADDITIONAL OPTIONS

OPTION

ACKNOWLEDGMENTS:

- R8S Multiple Order Numbers
- R8T Preliminary Invoice

VK3 **BRACKET:** License Plate, Front

EMISSION: (MUST SPECIFY) (Refer Emission Requirements Tab Section)

- FE9 Federal Emission Requirements
- NG1 Connecticut, District Of Columbia, Delaware, Massachusetts, Maryland, New Hampshire, New Jersey
New York, Pennsylvania, Rhode Island or Virginia Emission Requirements
- YF5 California Emission Requirements
- NB8 CA, CT, DC, DE, MA, MD, NH, NJ, NY, PA, RI, or VA Emission Override (Reqs FE9 Emissions)
- NC7 Federal Emission Override (Reqs YF5 or NG1 Emissions)

GLASS:

- AJ1 Deep Tinted (Mid and Rear Side and Rear Liftgate)
- ACG Opaque (Black) (Mid and Rear Side) (Incls Regular Tinted Rear Liftgate Glass)
- AB7 Deep Tinted Rear Liftgate (Reqs ACG Opaque Mid and Rear Side Glass)

HEATER:

- K05 Engine Block
- V54 **LUGGAGE CARRIER**

VENTURE (CARGO VAN)

ADDITIONAL OPTIONS CONT'D

OPTIONS

- RADIO EQUIPMENT:**
- UM6 Electronically Tuned AM/FM Stereo Radio w/Seek-Scan, Digital Clock and Cassette Tape
- SEATS: (MUST SPECIFY)**
- AV5 Vinyl Bucket Reclining
- AR9 Cloth Bucket, Reclining (Incls Passenger Underseat Storage Drawer, Scotchgard ® Fabric Seat and Door Trim Protection)
- UA6 **SECURITY SYSTEM:** Interior Content (N/A 1SE)
- FE3 **SUSPENSION:** Touring (Incls Load Leveling Suspension and XPU Tires) (Does Not Include Auxiliary Air Inflator)
- TIRES:**
- XPU P215/70R-15 Touring Radial
- P42 P215/70R-15 Self Sealing Touring Radial (Incls XPU Tires)
- NW9 **TRACTION CONTROL**
- V92 **TRAILERING PROVISIONS:** (Reqs FE3 Suspension) (Incls H. D. Cooling w/Engine and Transmission Oil Cooling)

VENTURE (CARGO VAN)

INTERIOR AND EXTERIOR COLOR AVAILABILITY CHART

PLEASE NOTE: The Exterior Paint and Interior Trim Combinations Shown Below are the Only Combinations Available.

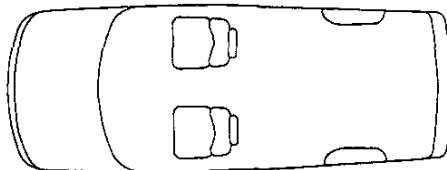
TRIM LEVEL	(a) SEAT Opt	INTERIOR COLORS
		Med Gray
Seat Type		
Vinyl Reclining Bucket	AV5	14N
Cloth Reclining Bucket	AR9	14B

Exterior Colors	Color Code	RECOMMENDED INTERIOR TRIM COLORS
Solid Paint		
Blue, Med (Met)	30U	x
Green, Fernmist Med (Met)	31U	x
Red, Carmine	09U	x
Redfire, Med (Met)	72U	x
Sapphire, Dk (Met)	28U	x
Silvermist (Met)	17U	x
Teal, Dk (Met)	35U	x
White, Bright	16U	x

Handwritten notes on the left side of the table:
 2001 avail → Blue, Med (Met)
 11/ constant 2002 → Green, Fernmist Med (Met)
 2002 avail → Redfire, Med (Met)
 2001 avail → Teal, Dk (Met)

(a) Seat Option Must Be Specified

SEATING ARRANGEMENT



NOTES



For Release: August 1, 1998

Contact: Chevrolet Communications
Chevrolet Media Online: <http://media.gm.com/chevy>
Phone: 1-800 CHEVY-MI
Fax: 800-504-5073

1999 CHEVY VENTURE HELPS BUSY FAMILIES EASE LIFE ON THE GO

DETROIT — For today's active families, time is a constant juggling act between work, sports, school, doctor appointments ... the list goes on. The 1999 Chevy Venture minivan provides the unique, versatile features buyers need to help manage an active lifestyle.

"Many families who purchase minivans do so because they need versatility," said Dan Keller, Venture brand manager. "They need a vehicle that is flexible enough to chauffeur the kids around, easily carry all their gear and, most of all, provide safe, reliable, comfortable transportation."

For 1999, Venture adds performance and safety enhancements and additional seating choices to an already long list of standard features.

For example, operating in concert with Venture's Next Generation driver and front-passenger air bags and side air bags are new, standard heated power outside mirrors and a new standard rear-window defogger which provide enhanced visibility in inclement weather conditions. They work with Venture's other crash-avoidance features — Daytime Running Lamps with Automatic Exterior Lamp Control, 4-wheel antilock brakes (ABS), brake/transmission shift interlock and optional Traction Control — to help lessen the likelihood of an accident.

Performance enhancements for 1999 include a fully electronically controlled automatic transmission — the 4T65-E. The electronic controls modulate the torque converter clutch to ensure smooth transmission shifts. Its adaptive shift quality compensates for changes in the operating condition of the transmission, which occur naturally over time.

Long-life automatic transmission fluid will not need replacing for at least 100,000 miles under normal operating conditions.

All 1999 Venture models are equipped with a 3400 V6 SFI engine. With 185 horsepower @ 5200 rpm, this powerplant provides five more horsepower than last year's engine, while maintaining the same fuel economy rating. This power is responsible, in part, for Venture's strong towing capacity of 3,500 lbs. when equipped with the optional Towing Provisions Package — perfect for pulling small campers or jet skis.

— MORE —

The 3400 V6 SFI engine also provides owners with peace of mind by providing platinum-tip spark plugs that are designed to last up to 100,000 miles before the first scheduled tune-up. In addition, extended-life coolant is designed to go up to 5 years or 150,000 miles before replacement. Plus, a "limp-home" feature allows Venture to travel up to 50 miles after the coolant supply has been depleted. These features are designed to save time and help keep families on the go.

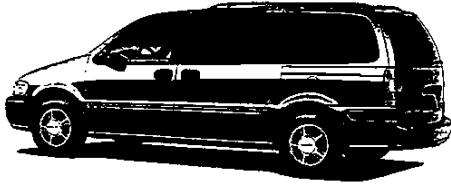
For '99, Chevy Venture provides standard split-bench seating on 3-Door Regular Wheelbase models and a new, optional eight-passenger seating arrangement. Venture offers outstanding flexibility, with up to 32 different seating configurations when equipped with the available modular bucket seats. All Venture seats have lightweight magnesium frames that facilitate quick and easy reconfiguration, of interior space. This year, custom leather seating surfaces are now available on LT models and include second-row captain's seats and a third-row 50/50 split-bench seat.

Door options also add to Venture's versatility, with the convenience of dual-sliding doors on Regular and Extended Wheelbase models and an optional exclusive power sliding side door — a minivan first — that makes opening the door as easy as pushing a button.

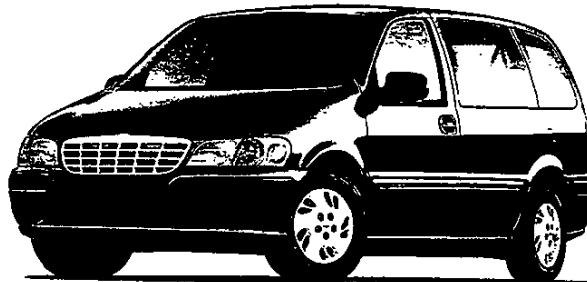
Other unique Venture features include its optional dual mode sound system, optional load-leveling suspension and outstanding storage features including 17 cupholders. "Chevy Venture helps makes life easier for those on the go," said Keller. "It combines thoughtful features with the flexibility, comfort, safety and power that today's families appreciate."

###

1999 CHEVY VENTURE



Chevy Venture Extended
Wheelbase LS 4-Door



Chevy Venture Regular Wheelbase 3-Door

CHEVY VENTURE AND THE MARKETPLACE

Since its introduction in 1997, Venture has not only received a multitude of positive press reviews and captured a variety of awards but it has been outpacing previous Chevy minivan sales records.

And for good reason. With today's time-challenged families, Venture offers everything that a family could want in a minivan – versatility, contemporary styling and safety. Wrapped inside its updated exterior styling are standard side air bags, standard 7-passenger seating, generous cargo room, trailering up to 3,500 lbs. (when properly equipped), and more standard horsepower than most other minivans.

The versatile Venture lineup offers a choice of wheelbases, a choice of doors and a choice of passenger or cargo vans.

And in the competitive minivan segment, versatility is everything.

COMPETITORS

- Dodge Caravan
- Dodge Grand Caravan
- Plymouth Voyager
- Plymouth Grand Voyager
- Ford Windstar
- Nissan Quest
- Mercury Villager
- Toyota Sienna
- Mazda MPV

AWARDS

- *Consumers Digest* 1998 Best Buy Recommendation, Vans
- *Money* magazine, Best Buy, Vans (4-Door Extended Wheelbase), March 1998

NEW FOR 1999

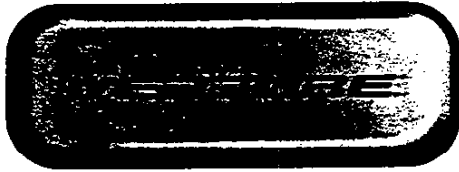
- Available 8-Passenger cloth seating on LS models (page 8)
- LT model with leather seating surfaces with second row captain's seats, third row split bench (page 8)
- Seven-passenger seating with standard 60/40 split-bench second-row and 50/50 split-bench third-row seats (page 6)
- Standard rear-window defogger (page 6)
- Electronically controlled automatic transmission (page 12)
- Charcoal odor and particle filter (page 6)
- Standard heated power outside mirrors (page 9)
- P215/70R-15 tires (page 14)
- LT exterior badging (page 3)

NEW EXTERIOR COLORS (PAGE 10):

- Medium Blue Metallic
- Medium Fernmist Green Metallic
- Medium Redfire Metallic
- Silvermist Metallic

NEW INTERIOR COLORS (PAGE 8):

- Medium Neutral Leather
- Medium Gray Leather



MODELS AND TRIM LEVELS

MODEL AVAILABILITY

Venture is available in Regular Wheelbase (112") in three- or four-door models. The Extended Wheelbase (120") is available only as a four-door model. Trim level availability is base-level, LS and LT. (LS trim available on 4-door models only and LT trim available only on Extended Wheelbase models.)

VENTURE BASE-LEVEL MODELS (REGULAR AND EXTENDED WHEELBASES)

The standard performance, safety, comfort and convenience features included in the 3- and 4-Door base-level models are:

Interior

- Seven-passenger split-bench seating arrangement
- Dual-side impact air bags*
- Next Generation driver and front-passenger air bags*
- Air conditioning
- Rear-passenger assist grips
- Driver and front-passenger map pockets
- Overhead and center storage consoles
- Front-, second- and third-row cup holders
- Carpeted front/rear floor mats
- Scotchgard™ protection
- Particle and odor filter
- Front and rear auxiliary power outlets
- Front, center convenience net
- Adjustable-height driver and front-passenger shoulder safety belts
- Rear-seat safety belt child comfort guides
- Tilt-Wheel™ steering column
- Inside rearview mirror with day/night feature
- Electric rear-window defogger
- Electronically tuned ETR AM/FM stereo.

Exterior

- Power heated outside rearview mirrors
- Daytime Running Lamps with Automatic Exterior Lamp Control
- Intermittent wipers

- Rear-window washer/wiper
- Power door and liftgate locks
- Windshield-integrated antenna
- P215/70R-15 blackwall all-season steel-belted radials with steel wheels and 15" bolt-on wheel covers.

Functions:

- 3400 V6 SFI Engine with 185 horsepower
- HVAC system includes front side-window defoggers and rear heat ducts
- 4-speed electronically controlled automatic transmission with overdrive
- Low oil, low coolant sensors
- Solar-Ray tinted glass
- Multi-function Alarm, Locks and Lighting (M.A.L.L.) system
- Battery-rundown protection
- 4-wheel antilock brake system (ABS)
- Aluminized stainless-steel exhaust system
- Platinum-tip spark plugs
- Limp-home feature.

*Always use safety belts and proper child restraints, even with Next Generation air bags. See owner's manual for more safety information.

VENTURE LS TRIM PACKAGE (4-DOOR REGULAR AND EXTENDED WHEELBASES)

The following equipment features are in addition to the base-level package features (or in some cases replace them):

Interior

- Custom front bucket seats with driver and front-passenger adjustable lumbar support and adjustable head restraints
- Optional 8-passenger seating
- Optional second-row captain's seats
- Power driver and front-passenger windows
- Deep-tinted glass
- Overhead console with Driver Information Center
- Power rear-quarter vent windows
- Front-passenger assist grip
- Custom Cloth interior trim
- Rear liftgate cargo net
- ETR AM/FM stereo with cassette player and automatic tone control, speed-compensated volume, TheftLock security feature and coaxial front/rear speakers.

1999 CHEVY VENTURE



Exterior

- Aluminum wheels
- Luggage carrier.

Functional

- Remote Keyless Entry
- Electronic speed control.

VENTURE LT TRIM PACKAGE (4-DOOR EXTENDED MODELS ONLY)

The following equipment features are in addition to the LS Package features (or in some cases replace them):

Interior

- Six-way power driver and front passenger seat
- Custom leather seating surfaces
- Captain's seats (second row)
- Rear seat audio controls
- AM/FM stereo with cassette and CD players
- Rear air conditioning.

Exterior

NEW LT badge.

Functional

- Traction control
- Touring Suspension.

CHEVY VENTURE CARGO VAN

Venture offers an Extended Wheelbase (120") 4-Door Cargo Minivan with commercial "Customer's Choice" availability. The standard equipment features include:

Interior

- Next Generation driver and front-passenger air bags*
- Dual side-impact air bags
- Adjustable-height driver and front-passenger shoulder safety belts
- Front air conditioning
- Full-length rubber floor mat
- Driver and front-passenger map pockets
- Driver and front-passenger vinyl high-back bucket seats
- Tilt-Wheel™ steering column
- Manual swing-out rear-quarter windows

- Intermittent windshield wipers
- Front-seat cup holders
- Particle and odor filter
- Inside rearview mirror with day/night feature
- Rear-window defogger
- Power door and liftgate locks
- ETR AM/FM stereo with seek feature and digital radio with dual front speakers.

Exterior

- Rear-window wiper with fixed/delay feature and washer
- Solar-Ray tinted glass on all windows
- Windshield-integrated antenna
- Power heated outside rearview mirrors
- Aluminized stainless-steel exhaust system
- P215/70R-15 blackwall all-season steel-belted radials with steel wheels and 15" bolt-on wheel covers.

Functional

- 4-wheel antilock brake system (ABS)
- Front disc/rear drum brakes
- Daytime Running Lamps with Automatic Exterior Lamp Control
- 3400 V6 SFI engine with 185 hp
- 4-speed electronically controlled automatic transmission with overdrive
- Driver-side sliding door lockout provision
- Battery-rundown protection.

*Always use safety belts and proper child restraints, even with Next Generation air bags. See owner's manual for more safety information.

CHEVY VENTURE TAXI VAN

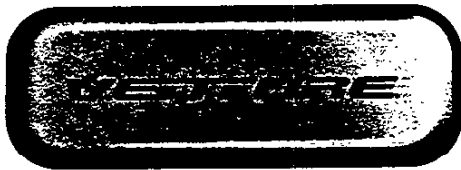
Taxi needs are fulfilled with the 4-Door Regular Wheelbase Venture models and have room for five passengers. In addition to the standard features of the base-level Regular Wheelbase Venture, the taxi model features include:

Interior

- Cruise control
- Rubber floor covers
- Power windows with driver's Express-Down.

Functional

- Rear-window defogger
- Remote Keyless Entry.



THE CHEVROLET FAMILY OF VANS

With six distinctly styled and functional vans, Chevrolet offers the broadest combination of any manufacturer in the industry. With such a lineup, Chevy is able to offer the varied customer base of van owners and users an unmatched selection of options in size, power and utility. Chevy Express Passenger Van, Chevy Express Cargo Van, Astro Passenger Van and Cargo Van, Venture Passenger Minivan and Venture Cargo Minivan can be equipped to meet the needs of virtually any van customer, whether for personal or commercial use.

CHEVY EXPRESS — With seating for up to 15 people or up to 316.8 cubic feet of room with rear seating removed, Chevy Express is the ideal "people-mover." It serves both commercial and personal applications that require "anything goes" versatility in a full-size van.

CHEVY EXPRESS CARGO VAN — Offering full-size van flexibility and rugged truck durability, Chevy Van provides exceptional comfort, impressive safety features, superior towing capabilities, and is ideal for conversion upfitting or serious cargo-carrying applications.

ASTRO VAN — Chevy Astro Van (Passenger and Cargo models) is a versatile workhorse, offering a combination of people-moving (up to 8 passengers), cargo-carrying (up to 170.4 cu. ft.) and trailering capabilities (up to 5,500 lbs., when properly equipped).

VENTURE — Chevy Venture completes the Chevrolet family of vans, offering customers optimum flexibility, comfort and convenience, while providing "space on demand," impressive ride and handling, and more standard horsepower than most minivans in its class. And, Venture Cargo Minivan offers impressive cargo room.

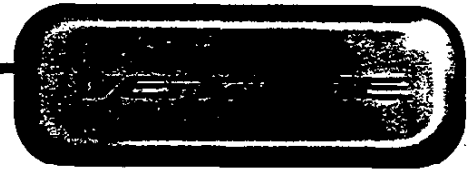
SAFETY AND SECURITY

With a long history of setting automotive safety milestones, GM is a world leader in automotive safety research, development and testing. Venture exemplifies that dedication by providing a comprehensive system of standard safety features which emphasize crash avoidance and occupant protection. Venture owners not only get a reliable, versatile, "easy-to-use" minivan, but more important, they get additional peace of mind.

CRASH AVOIDANCE FEATURES

- **DAYTIME RUNNING LAMPS (DRL)** turn on automatically when driving Venture to help increase visibility to other drivers. The parking brake must be disengaged for the system to activate.
- **AUTOMATIC EXTERIOR LAMP CONTROL** works with Daytime Running Lamps and automatically activates the headlamps and all other exterior lamps to full intensity when light-sensitive sensors detect darkness for more than 20 seconds. The exterior lamps will shut off when the ignition is turned off.
- **4-WHEEL ANTILOCK BRAKE SYSTEM (ABS)**, standard on all models, automatically adjusts brake pressure to the wheels during hard braking situations, to help the driver maintain steering control and reduce wheel lockup.
- **BRAKE/TRANSMISSION SHIFT INTERLOCK**, standard on all Venture models, requires drivers to depress the brake pedal to shift out of Park.
- **TRACTION CONTROL** automatically activates if wheels should spin on slick surfaces. A sensor detects the spinning and automatically applies the brakes while retarding fuel flow to the engine, slowing and stabilizing the vehicle to provide traction. (Optional for Venture LS models and standard on LT models.)
- **STANDARD SOLAR-RAY LIGHT-TINTED GLASS** reduces glare.
- **LARGE HALOGEN HEADLAMPS** provide a wide illuminated forward path.

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OCCUPANT PROTECTION FEATURES

- NEXT GENERATION DRIVER AND RIGHT FRONT-PASSENGER AIR BAGS* inflate with reduced speed and deployment force, helping to reduce the risk of deployment injury. However, even with Next Generation air bags, never place a rear-facing infant restraint in the front seat of any vehicle with an active air bag.
- SIDE AIR BAGS ON BOTH THE DRIVER AND FRONT-PASSENGER SIDE* work with the vehicle's body side structure to help reduce the risk of injury to front-seat occupants' rib and chest areas in side impacts, such as those that can occur in some intersection collisions.
- FRONT-SEAT SAFETY BELT PRETENSIONER AND FORCE-LIMITER mechanism reduces slack in the shoulder safety belt upon a frontal impact, and then releases the tension gradually to help lessen the impact forces transferred to the occupant.

Other important safety features:

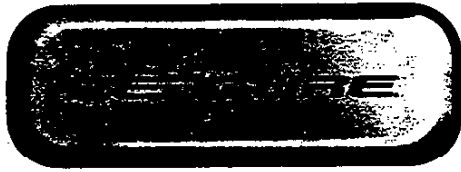
- HIGH-STRENGTH STEEL SIDE DOOR BEAMS in front and sliding side doors help protect occupants from intrusion into the passenger compartment.
- FRONT AND REAR CRUSH ZONES are designed to deform in a controlled manner in the event of a collision, helping absorb impact energy and help reduce intrusion into the passenger compartment.
- ENERGY-ABSORBING STEERING COLUMN and instrument panel are designed to absorb collision impact, reducing the risk of injury to the driver's body.
- CHILD SECURITY REAR-DOOR LOCKS, when engaged, prevent the sliding side doors from being opened from the inside.
- INTEGRAL CHILD SAFETY SEATS, optional for second-row split-bench or modular seats, provide security for young passengers weighing up to 40 lbs.
- REAR-SEAT SAFETY BELT COMFORT GUIDES, standard on every Venture model, adjust the angle of safety belt crossover, making the safety belts more comfortable for small occupants riding in the backseat.

- SAFETY BELT CINCH CAPABILITY FOR CHILD SEATS permit child restraints to be installed without the need for a lockable clip.
- ADJUSTABLE UPPER SAFETY BELT ANCHORS allow the driver and front passenger to place the safety belt at a more comfortable height above the shoulder.
- STANDARD THREE-POINT ENERGY-ABSORBING SAFETY BELT system helps restrain outboard passengers and minimizes chest injury to passengers in moderate to severe collisions.
- REMOTE KEYLESS ENTRY, available on all models, uses a key fob to transmit a uniquely coded high-frequency radio signal, which locks/unlocks the door and liftgate and the optional power sliding side door, and illuminates the interior lights from up to 30 feet away from the vehicle.

*Always use seat belts and proper child restraints, even Next Generation air bags. See owner's manual for more safety information.

SECURITY FEATURES

- OPTIONAL AUDIBLE THEFT-DETERRENT SYSTEM includes horn alarm and fuel supply shutoff. (Included with optional Safety and Security System.)
- STANDARD MULTI-FUNCTION ALARM, LOCKS AND LIGHTING (M.A.L.L.) feature allows customization of a variety of security features, depending on the optional equipment selected. The system works with the available Remote Keyless Entry to provide owners with several programmable door locking and unlocking features, as well as multiple lighting and alarm options.



INTERIOR FEATURES

Venture provides a spacious interior with standard seating for seven passengers. Optional eight-passenger seating can be arranged in up to 32 different seating configurations. The modular seating of Venture is designed to provide superior flexibility and efficient use of space. The lightweight seating is easy to remove and install.

NEW STANDARD SEVEN-PASSENGER SEATING with 60/40 split-bench second-row and 50/50 split-bench seat, includes two front bucket seats. Second- and third-row seats are easy to flip, fold, remove and adapt to various combinations to accommodate passengers and cargo.

NEW FILTRETE™ CHARCOAL ODOR AND PARTICLE FILTER helps minimize pollen infiltration into the cabin and objectionable odors.

Other interior features:

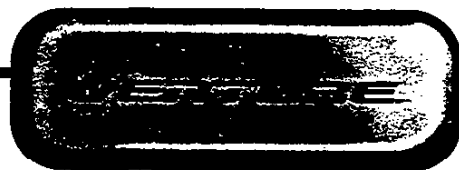
NEW STANDARD REAR-WINDOW DEFOGGER, helps improve driver's rearward visibility in inclement weather.

- AIR CONDITIONING, standard on all Venture models, uses CFC-free refrigerant.
- AIR CONDITIONING COMPRESSOR is automatically activated to help prevent window "flash-fogging" when the defrost mode is selected.
- REAR HVAC CONTROLS, available on Extended Wheelbase 4-door models, offer separate temperature controls for rear-seat passenger comfort.
- STANDARD INTEGRATED REAR-SEAT AIR DUCTS for heater, ventilator and air conditioning systems maximize rear-passenger comfort.
- STANDARD SIDE AND REAR VENT WINDOWS open outward to provide extra ventilation for rear-seat passengers.
- ENHANCED OVERHEAD CONSOLE, included with LS and LT trim packages, features a Driver Information Center (DIC), which includes an English/Metric conversion button, ambient air temperature display, compass, multiple fuel information readouts, and average speed readout. The DIC has two buttons

for driver control of the display. One button steps the display through the various information modes. The second button provides reset functions.

- ONSTAR, an advanced communications system is now available on Venture as a dealer-installed option. OnStar integrates advanced on-board vehicle electronics with Global Positioning System satellite technology and a cellular phone to link the driver and the vehicle to the OnStar Center. This allows the driver to access a variety of services, such as travel directions, roadside assistance and emergency services. Because the system incorporates GPS technology, the driver does not need to know the vehicle's location for the services to reach them. The system also enhances vehicle and occupant security by alerting the OnStar Center of air bag deployment, locating and tracking a stolen vehicle and allowing remote door unlocking via satellite.
- STANDARD INTERMITTENT WIPERS allow the driver to match wiper speed with weather conditions for optimum visibility.
- STANDARD POWER DOOR LOCKS add one-touch locking convenience.
- TILT-WHEEL™ STEERING COLUMN, standard on all Venture models, tailors the wheel to the most comfortable, individualized wheel position.
- SAFETY BELT COMFORT GUIDES, adjust the angle of safety belt crossover, making safety belts more comfortable for small adults and children riding in the backseat. (Standard for second- and third-row driver-side outboard seating positions.)
- SCOTCHGARD™ PROTECTION helps protect cloth seating surfaces and door panel trim from stains and makes cleanups easy.
- UP TO 17 CUP HOLDERS are available on Venture models, and are designed to hold various-size cups, including juice boxes.
- UP TO 26 STORAGE COMPARTMENTS, includes front passenger underseat stowage, and a removable CD/cassette bin that can be locked inside the glove box.
- STANDARD CONVENIENCE NET between the front seats, and rear sidewall cargo nets hold small items in place.

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- **TWO AUXILIARY ELECTRICAL POWER OUTLETS**, one in the instrument panel and one in the rear cargo area, accommodate cellular phone cords, coolers, electronic games, a television or other accessories.
- **20-FOOT PORTABLE AIR HOSE** is included with the optional load-leveling suspension, providing an inflation source for tires, air mattresses, inner tubes, etc. (Standard with LT model. Not included on cargo model with load-leveling suspension).
- **THEATRE SEATING** integrates a gradual rise in the floor to provide excellent visibility for second- and third-row passengers.
- **OVERHEAD CONSOLE**, on base-level Venture models, features two reading lamps and a storage compartment.
- **INTERIOR LIGHTING** includes glove box, ashtray, overhead console, rear cargo area and underhood as standard. Third-row roof rail lighting is standard on 4-Door models.
- **STANDARD DRIVER AND FRONT-PASSENGER SUNSHADES WITH VISOR VANITY MIRRORS** and map straps hold important papers and maps in place and within reach.
- **ILLUMINATED LEFT AND RIGHT VISOR VANITY MIRRORS**, are standard on Venture LS and LT models.
- **LOCKING GLOVE BOX** has 8.4 liters of storage room and includes pen and tissue holders.
- **REAR WINDOW WIPER** is standard on all Venture models and features a fixed-delay feature.
- **WINDSHIELD-INTEGRATED ANTENNA** reduces wind and static interference and reduces the occurrence of most vandalism and car-wash damage.

AUDIO SYSTEMS

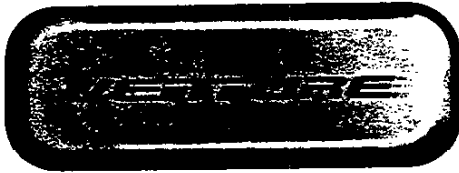
Venture proudly offers several Delco sound systems with the technology and features designed to complement all varieties of music, from jazz to country and in-between.

Uplevel cassette and compact disc player systems feature speed-compensated volume. This feature automatically adjusts the volume of the audio to the vehicle's speed, compensating for road noise. Also featured is automatic tone control, which sets equalizer levels with one-touch for talk and a variety of music programs.

Available audio systems:

- **ELECTRONICALLY TUNED RECEIVER (ETR) AM/FM STEREO**, standard on all Venture base-level models, is equipped with seek-scan, digital clock and extended-range front and rear* speakers.
- **ETR AM/FM STEREO WITH SEEK-SCAN**, digital clock, and dual front speakers is standard on Venture Cargo Van.
- **ETR AM/FM STEREO WITH CASSETTE PLAYER**, seek/scan, digital clock, and extended-range front and rear speakers is available on base-level models.
- **ETR AM/FM STEREO WITH CASSETTE PLAYER**, TheftLock security feature, speed-compensated volume, automatic tone control, seek-scan and digital clock, and premium coaxial front and rear speakers is standard on LS and LT models and optional on base-level models.*
- **ETR AM/FM STEREO WITH COMPACT DISC PLAYER**, TheftLock security feature, speed-compensated volume, automatic tone control and digital clock is optional on all models.*
- **ETR AM/FM STEREO WITH CASSETTE PLAYER AND REMOTE CD**, TheftLock security feature, speed-compensated volume, automatic tone control, seek-scan and digital clock, and premium coaxial front and rear speakers is standard on LS and optional on base-level and LT models.*
- **DUAL-MODE SOUND SYSTEM** with rear audio controls and dual earphone jacks allows second-row passengers to listen to separate music sources than front-seat passengers (included with LT trim). Now available on all Venture models equipped with an uplevel sound system.

*Except Venture Cargo Minivan.



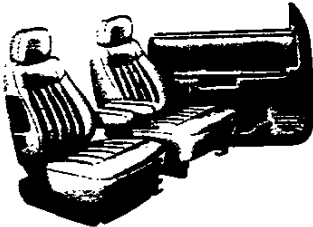
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SEATS



- Reclining front bucket seats — standard base-level model.



- Reclining front bucket seats with adjustable lumbar support and adjustable head restraints — standard LS model.



- Reclining front bucket seats with driver six-way power adjustment and 4-way power adjustment — standard LT model.

NEW AVAILABLE EIGHT-PASSENGER SEATING (LS and LT models) includes three second-row lightweight, flip-and-fold modular seats and a third-row 50/50 split-bench seat.

In addition, Venture second- and third-row split-bench and modular seating has an exclusive flip-and-fold design. When folded, the seat creates a surface which may be used for work or play. Once the seatbacks are folded down, a lever can be pulled that positions the seat up from the floor and forward to provide additional space without having to remove the seats.

Further, all Venture seating is "pressure-map" designed, which adds comfort and helps reduce back strain on long trips.

NEW LEATHER SEATING SURFACES are a new-for-'99 feature optional on LT models with second-row captain's seats and third-row split-bench seat.

Other Venture seating highlights:

- SECOND-ROW CAPTAIN'S SEATS are an available option for Venture models equipped with the LS trim packages and included with the LT trim package with leather seating surfaces.
- TWO FRONT STANDARD CLOTH HIGH-BACK RECLINING BUCKET SEATS* and driver 4-way manual seat adjuster come standard on Venture models.
- 2-PASSENGER 40/60 SPLIT-BENCH SECOND-ROW SEAT AND 3-PASSENGER 50/50 SPLIT-BENCH THIRD-ROW SEAT are now standard on the Venture.
- SECOND- AND THIRD-ROW LIGHTWEIGHT (38 LBS. EACH) EXCLUSIVE MODULAR BUCKET SEATS are available in all passenger models when LS trim is specified.
- VENTURE CARGO VAN provides two front high-back vinyl bucket seats with side impact air bags. As an option, customers can choose cloth bucket seats featuring inboard seat armrests, Scotchgard™ protection and a passenger underseat stowage drawer.

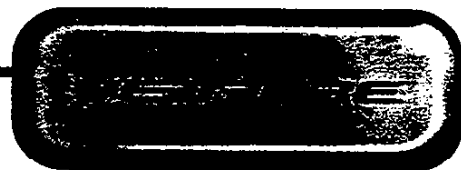
INTERIOR COLORS*

NEW Medium Gray Leather
Medium Neutral Leather

- Neutral Cloth
- Medium Gray Cloth/Vinyl
- Dark Teal Cloth.

*Chevy Venture Cargo Van interior available in Medium Gray only.

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EXTERIOR FEATURES

Venture has a sporty, contemporary, aerodynamically designed exterior, appealing to the style-conscious buyer who doesn't want to compromise looks for the functionality a minivan offers. Venture features a distinctive chrome front grille, with large halogen headlamps that provide a wide illuminated path.

Other Venture exterior features:

- **HEATED OUTSIDE MIRRORS** enhance driver visibility in inclement weather conditions.
- **FOLD-AWAY OUTSIDE REARVIEW MIRRORS** are shaped to cut through the wind, and provide almost 40 square inches of rearview sight. Engineered with a sturdy hinged design, outside rearview mirrors fold easily against Venture in the event it passes a fixed object too closely.
- **SOLAR-RAY SOLAR-CONTROL WINDSHIELD** help protect interior fabrics from fading and is designed to help keep the interior cooler than vehicles equipped with regular tinted glass.
- **CENTER HIGH-MOUNTED STOPLAMP (CHMSL)** uses a light-emitting diode (LED) instead of a traditional incandescent bulb. The LED lights faster than incandescent bulbs, helping to provide early warning to other drivers.
- **EXTRA-LARGE WINDSHIELD** was achieved through the elimination of triangular side windows to provide a greater viewing area.
- **FRONT WINDSHIELD A-PILLARS** are designed to send water from the windshield up onto the roof, allowing the driver better visibility in heavy rains.
- **FRONT "FULL SWEEP" WIPERS** clear about 71 percent of the windshield for excellent visibility. Wipers retract below the hoodline to help reduce wind resistance and noise while increasing visibility.
- **STANDARD FIXED-DELAY REAR WIPER** and washer system provides a 177-degree sweep.
- **WINDSHIELD-INTEGRATED ANTENNA** helps reduce wind noise and static that can occur with standard mast antennas, in addition to eliminating vandalism and car wash damage.

DOORS

All Venture doors open wide to provide excellent access — 32.8 inches when fully extended. Sliding side doors were designed to be easy to use, even for small children or physically challenged occupants, while door handles are designed to be ergonomically friendly, turning in the same direction that the door travels.

A driver-side sliding door, available on Regular models and standard on Extended Wheelbase models, features a stop mechanism which keeps it from interfering with an open fuel filler door or closing on a passenger (exiting or entering) when parked on an incline.

Other Venture door highlights:

- **PASSENGER-SIDE POWER SLIDING DOOR** is a GM minivan first and is optional on all Venture Passenger Van models. It can be opened from a button mounted on the B-pillar or overhead console or via a Remote Keyless Entry key fob. This door features a delay-stop mechanism which prevents the door from closing if an object obstructs its path.
- **SLIDING DOORS THAT FEATURE THREE TRACKS**, are all part of an integrated body-side assembly. Tracks are angled two degrees downward from back to front, utilizing gravity to make the doors easier to close.
- **VENTURE LIFTGATE** is designed to resist bending, and features upright struts, which, unlike angled struts used on some other minivans, are positioned out of the way for more convenient loading access. The liftgate design uses reinforcements to help eliminate the flexing and "matchboxing" of the liftgate opening that can be caused from-traversing the bumps and potholes in the road.



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EXTERIOR PAINT

Standard basecoat/clearcoat paint on Venture resists fading and provides a high-gloss shine for long-lasting exterior beauty. The clearcoat system is formulated to minimize the effects of acid rain and other environmental damage. Clearcoat finish is used with all colors. The paint process builds up six layers of protection on every new Venture. Specifically, a total immersion phosphate electrode position (ELPO) process applies the first layer of primer/paint. Electric current is applied to the bodies while submerged in the paint bath to ensure complete coverage, even in hard-to-reach areas.

- THE SIX LAYER ANTI-CORROSION PAINT SYSTEM consists of:
 - Electrogalvanized metal
 - Phosphate coating
 - ELPO
 - Primer surface
 - Base coat
 - Clear coating.

EXTERIOR COLORS



Medium Blue Metallic
Medium Fernmist Green Metallic
Medium Redfire Metallic
Silvermist Metallic

- Carmine Red
- Sandrift Metallic*
- Dark Sapphire Metallic
- Dark Teal Metallic
- Bright White.

*Not available on Venture Cargo Van models.

DESIGN AND MANUFACTURING

Chevy Venture is built at the GM assembly plant in Doraville, Georgia. The design process benefited from years of market research and an unprecedented 42 customer clinics, which spanned the globe from North America and Europe to Asia. As a result, Chevy Venture is a coalition of customer-pleasing features, some exclusive, all designed to please on-the-go minivan owners worldwide.

BODY STRUCTURE

Engineers designed the Chevy Venture body structure to provide a solid, quiet ride, virtually free from engine noise, road noise and vibration.

The result was a continuous body structure, which means that the vehicle's underbody structure is designed to work in harmony with all of the other component groups, such as the suspension, powertrain, body panels, steering and seating.

Continuous body structure features:

- STEEL VERTICAL PILLARS, longitudinal rails and side-to-side cross members form a solid, cocoon-like structure. This system resists bending as the vehicle moves over uneven terrain, even through many years of driving.

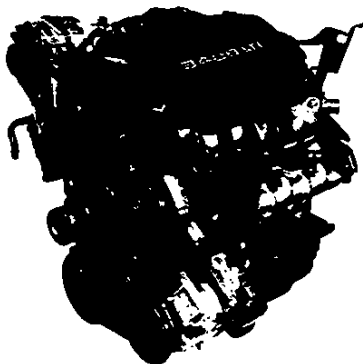
Benefits of continuous body structure:

- DOOR, WINDOW, AND LIFTGATE OPENINGS hold their designed shape, resisting the "matchboxing effect" that can occur with other structural systems.
- ENGINE AND ROAD NOISE, VIBRATION ARE ABSORBED and suppressed by the body's structure before they reach the interior of the vehicle.
- SOLID STRUCTURAL DESIGN allowed by narrow pillars and larger window areas designed to provide excellent forward visibility.

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ENGINES



3400 V6 SFI ENGINE (LA1)

All 1999 Venture models are equipped with a 3400 V6 engine with Sequential Fuel Injection, providing more standard horsepower than most minivans, including Plymouth Voyager, Dodge Caravan, Mercury Villager, Nissan Quest and Honda Odyssey.*

The transverse-mounted 3400 V6 SFI features an even-firing 60-degree configuration.

- OVERHEAD-VALVE V6 is a larger displacement version of GM's 60-degree 3.1 liter V6; the increased horsepower and torque are results of larger cylinder bores and a high compression ratio of 9.6:1.

*Based on 1998 comparisons.

Power ratings for the 3400 V6 engine are:

- 165 HORSEPOWER at 5200 rpm
- 210 LB.-FT. TORQUE at 4000 rpm.

Additional features of the 3400 V6 SFI engine:

- SEQUENTIAL FUEL INJECTION (SFI) delivers exact amounts of fuel through injectors at each cylinder, optimizing fuel efficiency, quick start-ups in all weather conditions and smooth acceleration.
- TOWING CAPACITY OF 3,500 LBS., when equipped with the optional Towing Provisions Package and proper trailering equipment.


- LOW-COOLANT AND LOW-OIL LEVEL INDICATORS alert the driver before serious engine damage occurs.
- HIGHLY-EFFICIENT AIRFLOW INDUCTION SYSTEM includes a large air cleaner with a mass airflow sensor, provides precise air-metering and control of air/fuel ratio.
- FORGED ALLOY STEEL CONNECTING RODS provide impressive durability.
- "ASSEMBLED" STEEL CAMSHAFT is made up of individual lobes and journals that are permanently locked onto a hollow tube for reduced valvetrain inertia and outstanding durability.
- PLATINUM-TIP SPARK PLUGS are designed to go up to 100,000 miles before their first scheduled change.*
- EXTENDED-LIFE COOLANT is designed to go up to 5 years or 150,000 miles* before needing replacement.
- LIMP-HOME COOLANT MODE helps prevent engine damage caused by overheating and allows Venture to be driven up to 50 miles should a low coolant condition exist.
- OBD II (ON-BOARD DIAGNOSTICS SECOND GENERATION) provides an enhanced Powertrain Control Module (PCM) that monitors the emissions system and components to detect deterioration or malfunction.
- LOW-FRICTION ROLLER ROCKER ARMS AND ROLLER LIFTERS improve drivetrain efficiency and promote impressive fuel economy.
- 24X IGNITION SYSTEM sends 24 crankshaft reference signals to the PCM for each crankshaft revolution, providing more precise monitoring of engine position and improving spark delivery, allowing impressive exhaust emissions control at low rpm levels.
- ENGINE ACUSTIC COVER muffles engine sound, contributing to a quiet ride.

*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.



TRANSMISSIONS

4T65-E 4-SPEED ELECTRONICALLY CONTROLLED AUTOMATIC TRANSMISSION WITH OVERDRIVE

 A standard fully electronically controlled automatic transmission matches the engine's performance through its Powertrain Control Module (PCM). The electronic controls modulate the torque converter clutch to produce a smooth engagement. The transmission also senses and adapts to changes in altitude, barometric pressure and engine load.

- **TEMPERATURE SENSOR** allows the transmission to compensate for severe operating conditions such as towing and steep grades.
- **ANTI-FRICTION DOCKER LINK CARRIER** design improves fuel economy, adds strength and enhances wear resistance.
- **ALUMINUM SIDE COVER** increases structural rigidity, reduces noise and vibration, provides superior sealing and helps dissipate heat.
- **LONG LIFE TRANSMISSION FLUID** will not need to be replaced for at least 100,000 miles under normal operating conditions.*
- **The engine and transmission use a CRANKSHAFT MOUNTED ENGINE VIBRATION ISOLATOR** which isolates engine vibration and reduces idle shake.

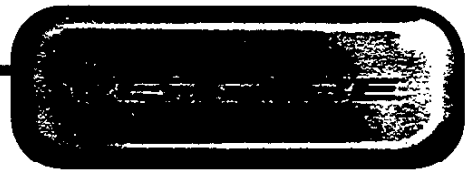
*Maintenance needs vary with different uses and driving conditions. See owner's manual for more information.

TRACTION CONTROL

Standard on models with the optional LS or LT trim package and Cargo Van, Traction Control provides increased control during takeoff or while driving on slippery surfaces. The system uses electronic controls to reduce engine power output and to selectively apply the brakes to prevent excessive front wheel spin on slippery road surfaces.

- **POWERTRAIN MANAGEMENT SYSTEM (PCM)**, controls slippage by controlling powertrain torque. When drive-wheel spin exceeds a predetermined limit, the system will reduce engine power by cutting off fuel delivery to a sequence of cylinders. If this does not control the traction loss, the system will apply the brake to the spinning wheel to limit its speed.
- **PCM** also reduces power by retarding the spark timing.
- **TRACTION CONTROL** works in both forward and reverse. It can be turned on/off via a button on the instrument panel.

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SUSPENSION

Venture has undergone extensive testing to develop a suspension which is designed to deliver exceptional ride and handling by concentrating on balanced body control and noise isolation. In fact, much of the Chevy Venture suspension geometry is similar to that of European models, having been tested on everything from the Autobahn to narrow village streets. The result is a comfortable ride and responsive handling, whether driving on city streets, highway or country roads.

FRONT SUSPENSION FEATURES:

- L-SHAPED LOWER CONTROL ARMS, provide both a soft, comfortable ride and precise steering control.
- STANDARD FRONT STABILIZER BAR, helps minimize body roll during cornering.
- ALUMINUM STEERING KNUCKLES are strong, yet lightweight, to reduce unsprung mass. This allows the spring and strut to more easily control the front suspension movements on bumpy roads for superb steering feel and ride comfort.
- MAINTENANCE-FREE BALL JOINTS are lubricated for life.

REAR-SUSPENSION FEATURES:

- VENTURE REAR SHOCK ABSORBERS are mounted parallel to each other to provide decreased "shimmy" effect over bumps.
- COUNTER-ANGLED REAR SHOCK ABSORBERS are positioned to allow more room between the wheelbases for cargo and passengers. The upper shock mounts are integrated with the longitudinal steel rails of the vehicle's body structure for durability, and to absorb vibrations before they are passed along to passengers.
- TWIST AXLE, COIL SPRING REAR SUSPENSION is designed to provide a smooth ride.

SUSPENSION CHOICES

- SMOOTH RIDE SUSPENSION is standard on all Venture models.
- TOURING SUSPENSION is optional for 4-Door models with LS trim package and included with the LT trim package. This suspension features "load-leveling," which keeps the rear height of the vehicle compensated for different load weight. An auxiliary air pump, included with the system (not available on cargo models), can be used to inflate beach balls, air mattresses, etc.

STEERING

Venture features a short turning radius — only 37.4 feet for Regular Wheelbase models and 39.7 feet for the Extended Wheelbase model — to ease parking and other steering maneuvers. Rack-and-pinion steering is standard on all Venture models for precise control under demanding driving conditions. This system features:

- 17.5:1 RATIO for quick steering response.
- INTERMEDIATE STEERING SHAFT with a solid shaft, resulting in a direct-acting and accurate steering wheel control.
- RIGID STEERING COLUMN is mounted in a stiff magnesium bracket, attached to a cross-vehicle beam, which minimizes steering wheel vibrations.



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BRAKES

Venture front disc/rear drum brakes feature large, 10.9" diameter, ventilated front rotors that enhance brake cooling.

OTHER FEATURES:

- **STANDARD 4-WHEEL ANTILOCK BRAKES (ABS VI)**, bring the vehicle to a controlled stop while allowing the driver to maintain steering control during hard-braking conditions. ABS VI reduces pedal "feedback" while stopping the vehicle smoothly.
- **POWER-ASSISTED BRAKE CALIPERS**, keep the brake pads evenly aligned to the disc. This helps reduce pedal feedback during braking and allows the pads to wear evenly, promoting long brake pad life. Calipers use stainless-steel shims to help prevent corrosion, allowing the calipers to move freely and quickly during braking situations.
- **BRAKE-TRANSMISSION SHIFT INTERLOCK (BTSI)**, prevents shifting out of Park until the brake pedal is depressed.

WHEELS AND TIRES

WHEELS



- **STANDARD STEEL WHEELS** with 15" bolt-on wheel covers are standard.



- **ALUMINUM WHEELS** are included with LS or LT trim and available on base-level models. (Except with PEG 1SA.)

TIRES

Chevy Venture features all-season steel belted radial blackwall tires that are designed for optimum performance in rain and snow. The suspension is designed for negative camber alignment at all four wheels for enhanced high-speed stability and road feel. Tire sizes are:



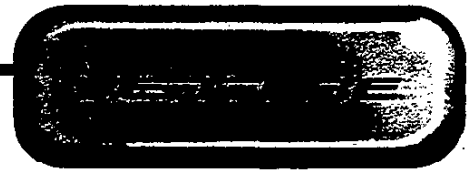
P215 PGR-13 are now standard on all models.

- **P215 PGR-13** steel-belted radial blackwall touring tires are optional on Venture models (except base-level Passenger Van models) and included with available FE3 Touring Suspension.
- **P215 PGR-13** self-sealing, all-season steel-belted radial touring tires are optional. (Not available on base-level Passenger Van models.)



Venture is sold in other countries besides the U.S. In many cases, changes are made in the vehicle's specifications to meet the unique demands of those markets and/or comply with local regulations. Additionally, these products sometimes fill a very different role in non-U.S. markets. If you need to know what the differences are, in specifications or marketing strategies, in any given country, please look in the Chevrolet International section of this publication to identify the right GM person to contact for that kind of information. Chevrolet Communications (U.S.) does not have those details.

1999 CHEVY VENTURE



AFFINITY RELATIONSHIPS

Because Chevrolet offers the most comprehensive lineup of cars and trucks of any automotive manufacturer, it goes without saying that there is a product for virtually everyone, whatever their needs. From the bass fisherman who needs a reliable truck to tow his fishing boat, to the soccer mom who needs a dependable van to get the team to the fields, Chevrolet can offer a vehicle to fit anyone's lifestyle.

With this in mind, Chevrolet created what has come to be known as "Affinity Marketing." Through it, Chevrolet has developed relationships with over eighty lifestyle organizations, sporting groups and spokespeople that represent the image of Chevrolet cars, trucks and the people who drive them. These relationships help Chevrolet market its products and services while offering marketing support to groups like the United States Figure Skating Association and Ducks Unlimited. Affinity Marketing also builds relationships with individuals. These people reflect the Chevrolet vision of excellence, like 1998 Olympic Gold Medalist Tara Lipinski and country music star George Strait.

venture has an affinity relationship with:

- Concept Cure
- Disney
- McDonald's
- Toys R Us
- U.S. Youth Soccer Association.

For more information, call 1-800-CHEVY-MI.

GENUINE CUSTOMER CARE

Chevrolet owners are covered by Genuine Customer Care, a comprehensive owner-protection plan that includes the following:

NEW VEHICLE LIMITED WARRANTY

The warranty is for GM vehicles registered in the United States. Owners should get complete terms and conditions of the New Vehicle Limited Warranty from their Chevrolet dealer.

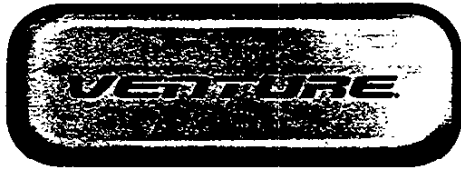
Items covered for 3 years or 36,000 miles* for manufacturer's defects include:

- The complete vehicle
- Tires
- Towing to the nearest Chevrolet dealership
- Sheet-metal coverage:
 - Corrosion coverage
 - Rust-through coverage†
- Repairs made to correct most vehicle defects
- No charge for most warranty repairs.

*Whichever comes first. Six years or 100,000 miles, whichever comes first.

COURTESY TRANSPORTATION

Retail customers who purchase or lease a Chevy vehicle are eligible for Courtesy Transportation (at no additional charge) when their vehicles are left at a participating dealership for repairs covered under the 3-year/36,000-mile Bumper to Bumper limited warranty. Courtesy Transportation, at participating dealers only, may include shuttle service, expense reimbursement, or, if the repairs require leaving the vehicle overnight, alternate transportation. Customers should inquire with local Chevy dealership for details.



ROADSIDE ASSISTANCE*

Roadside Assistance service is provided through a toll-free 800 number, 24 hours a day, 365 days a year. Roadside Assistance advisors can assist with minor mechanical problems over the phone or coordinate a variety of services through professional service providers.

NEW VEHICLE WARRANTY

- Toll-free access — 1-800-CHEV-USA
- Free towing to closest dealer for warranty repairs
- Basic over-the-phone technical advice
- Dealer services at reasonable costs (i.e., wrecker services, locksmith/key service, glass repair, etc.).

Basic Care, which applies for 3 years/36,000 miles, provides:

- Basic Care services
- Free locksmith/key service (when keys are lost on the road or locked inside)
- Free flat tire change service
- Free fuel delivery
- Free non-warranty towing
- Free jump start.

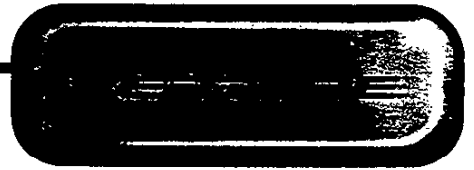
*Roadside Assistance membership is free. Some services may incur costs. Courtesy Care is available to retail, retail lease and corporate lease customers operating 1994 and newer Chevrolet vehicles for a period of 3 years/36,000 miles, whichever comes first. All Courtesy Care services and associated costs must be prearranged by Chevrolet Roadside Assistance or dealer service management and must be driver-initiated. Basic Care and Courtesy Care are not part of or included in the coverage provided by the New Vehicle Limited Warranty. Chevrolet reserves the right to modify or discontinue Basic Care and Courtesy Care at any time. Owners should see their dealer for complete details of the Chevrolet Roadside Assistance Program.

Important — a word about this document: We have tried to make this document as comprehensive and factually accurate as possible to assist you. We reserve the right, however, to make changes at any time, without notice, in colors, materials, equipment, specifications, models and availability. Some information may have been updated since the time of printing in June 1998.

A note Next Generation air bags: Always use safety belts and proper child restraints, even with Next Generation air bags. See the owner's manual for more safety information.

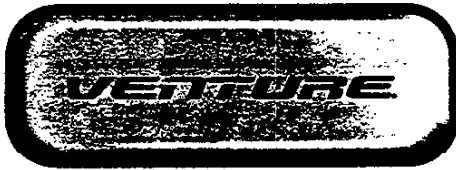
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1999 VENTURE FEATURE AVAILABILITY

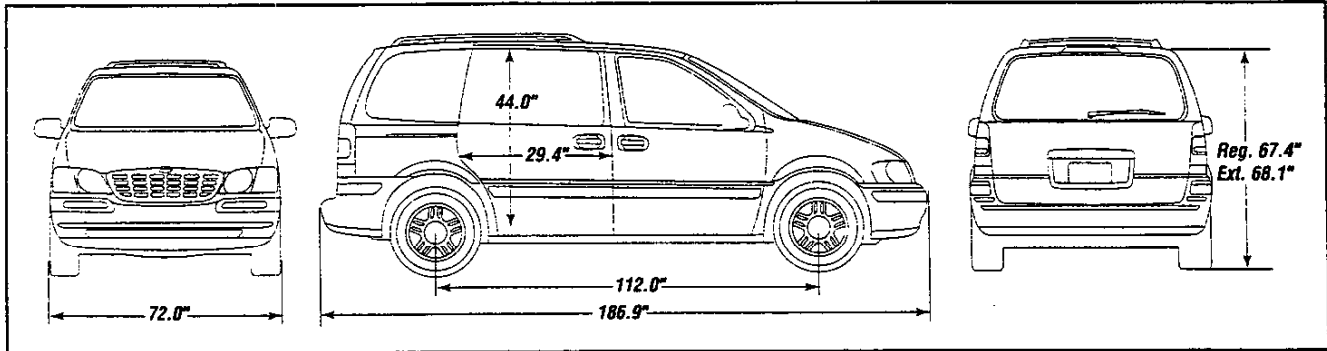


	Base	LS	LT	Cargo Van
INTERIOR				
Next Generation Air Bags - Driver and Passenger	S	S	S	S
- Driver and Front-Passenger, Side	S	S	S	S
Air Conditioning - Front	S	S	S	S
Antenna - Windshield-Integrated	S	S	S	S
Console - Center, Non-Locking	S	S	S	S
Console - Overhead with Driver Info. Center	NA	S	S	NA
Convenience Net - Cargo (liftgate)	NA	S	S	NA
Cruise Control - Electronic with Resume Speed	O	S	S	O
Cup holders - 1st, 2nd, 3rd Row	S	S	S	S ¹
Defogger - Rear Window	S	S	S	S
- Side Window	S	S	S	S
Filter - Integrated Pollen/Odor	S	S	S	S
Lighting - Interior Roof Rail	S ²	S	S	NA
Locks - Child Safety Sliding Door	S	S	S	S
- Power Door/Liftgate	S	S	S	S
- Remote Keyless Entry	O	S	S	O
Map Pockets - Front-Bucket Seatbacks and Front Doors	S	S	S	S
Security System - Content Theft Deterrent	NA	O	S	O
Scotchgard™ Protection	S	S	S	S ³
Seats - 2 Vinyl Front Bucket	NA	NA	NA	S
Seats - 2 Front-Bucket, 2-Passenger 40/60 Split-Bench and 3-Passenger 50/50 Split-Bench	S	S	NA	NA
Seats - 2 Front-Bucket, 2-Captain's Seats and 3-Passenger 50/50 Split-Bench	NA	O	S	NA
Seats - 2 Front-Bucket, 3 Modular Buckets and 3-Passenger 50/50 Split-Bench	NA	O	O	NA
Seats - 2 Front Buckets, 5 Rear Modular Buckets	NA	O	NA	NA
- Six-Way Power Driver	NA	O	S	NA
Steering Column - Tilt-Wheel™ Adjustable	S	S	S	S
Stereo - AM/FM w/Digital Clock	S	NA	NA	S
- AM/FM w/Cassette Player	O	NA	NA	O
- AM/FM w/ATC and Cassette Player	O	S	NA	NA
- AM/FM w/ATC and CD Player	O	O	NA	NA
- AM/FM w/ATC and Cassette Player/Remote CD Player	O	O	S	NA
Rear-Seat Audio Controls with Earphone Jack	O ⁴	O	S	NA
Windows - Power with Driver's Express-Down Feature	O	S	S	O
Wipers - Intermittent Variable	S	S	S	S
EXTERIOR				
Daytime Running Lamps with Automatic Exterior Lamp Control	S	S	S	S
Doors - Dual Sliding Side	O	S	S	S
- Power Passenger Side Sliding	O	O	O	NA
Luggage Rack	O	S	S	O
Mirrors - Outside Dual Power Remote, Heated	S	S	S	S
Tires - P215/70R-15 Blackwall All-season	S	S	S	S
- P215/70R-15 Blackwall Touring	NA	O	S	O
- P215/70R-15 Blackwall Touring, Self-Sealing	NA	O	O	O
Wheels - 15" Steel with Bolt-on Wheelcover	S	NA	NA	S
- 15" Cast-Aluminum	NA	S	S	NA
FUNCTIONAL				
Battery-Run-down Protection	S	S	S	S
Brakes - Power Front Disc/Rear Drum with 4-Wheel Antilock	S	S	S	S
Engine - 3400 V6 SFI	S	S	S	S
Suspension - Smooth Ride	S	S	S	S
Suspension - Touring with Load Leveling	NA	O	S	O ⁵
Traction Control	NA	O	S	O ¹
Trailer Capacity - 3500 lbs./1588 kg	NA	O ⁴	O ⁴	O ⁴
Transmission - 4-Speed Electronically Controlled Automatic	S	S	S	S

S-Standard. O-Optional (some options may be available only as part of a Preferred Equipment Group.). NA-Not available. 1 First row only. 2 Except 5-Door model. 3. With optional cloth seats. 4 Requires premium AM/FM stereo with ATC. 5 Does not include auxiliary air inflator. 6 Requires optional Touring Suspension.



1999 VENTURE SPECIFICATIONS



MODEL AVAILABILITY

	Chevy Venture	Chevy Venture Cargo Van
Passengers (max.)	7 (8 with optional seating)	2
Class	Minivan	Minivan
Assembly plant	Doraville, Georgia	Doraville, Georgia
Primary structure	Integrated ladder/frame	Integrated ladder/frame
Body material	Two-side-galvanized (except roof)	Two-side-galvanized (except roof)

DIMENSIONS & CAPACITIES (inches/millimeters, unless otherwise noted)

	Venture (Reg. Wheelbase)		Venture (Ext. Wheelbase)		Venture Cargo Van	
Exterior Dimensions						
Wheelbase	112.0/2845		120.0/3048		120.0/3048	
Overall length	186.9/4747		200.9/5103		200.9/5103	
Overall height	67.4/1712		68.1/1730		68.1/1730	
Maximum width	72.0/1829		72.0/1829		72.0/1829	
Ground to rear load floor	24.0/610		25.0/635		25.0/635	
Ground clearance (front/rear)	8.3/10.4/211/264		8.5/11.0/216/279		8.5/11.0/216/279	
Interior Dimensions						
Headroom (front/mid./rear)*	39.9/39.3/38.8	1014/998/986mm	39.9/39.3/38.9	1014/998/988mm	39.9	1014mm
Legroom (front/mid./rear)*	39.9/36.9/34.0	1014/937/864mm	39.9/39.0/36.7	1014/991/932mm	39.9	1014mm
Shoulder room (front/mid./rear)*	59.8/61.9/60.1	1519/1572/1527mm	59.8/61.9/59.6	1519/1572/1514mm	59.8	1519mm
Hip room (front/mid./rear)*	55.5/60.4/48.3	1410/1534/1227mm	55.5/64.3/48.3	1410/1633/1227mm	55.5	1410mm
Capacities						
Est. curb weight (std.)	3699 lbs.	1678 kg	3838 lbs.	1741 kg	3688 lbs.	1673 kg
Maximum GVWR	5357 lbs.	2430 kg	5357 lbs.	2430 kg	5357 lbs.	2430 kg
Base payload (std.)	1658 lbs.	753 kg	1457 lbs.	661 kg	1669 lbs.	758 kg
Maximum trailer capacity	3500* lbs.	1588 kg	3500* lbs.	1588 kg	3500* lbs.	1588 kg
Maximum cargo capacity	126.6** cu. ft.	3594.5 liters	155.9 cu. ft.	4426.4 liters	155.9 cu. ft.	4426.4 liters
Fuel tank capacity	20 gallons	75.7 liters	25 gallons	75.7 liters	25 gallons	75.7 liters

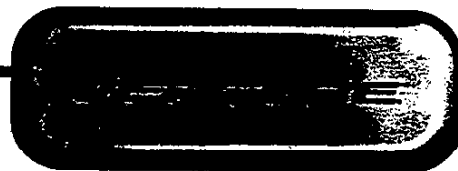
*Mid./rear not available with Venture Cargo Minivan. †When properly equipped with optional V92 Trailing Provisions Package.

**Three-Door model; 133.0 cu. ft. (3776.2 liters) on 4-Door model.

STEERING

	Chevy Venture and Chevy Venture Cargo Van
Type	Power rack-and-pinion
Steering ratio	16.8:1
Turning diameter, curb-to-curb ft. (m)	37.4 (11.4) Regular Wheelbase models/39.7 (12.1) extended-wheelbase models

1999 VENTURE SPECIFICATIONS



BRAKES

	Chevy Venture and Chevy Venture Cargo Van	
Type	Power-assist, vented front disc/rear drum w/4-wheel ABS	
	U. S. STANDARD	METRIC
Front disc size	10.94 x 1.27 in.	278 x 32mm
Rear drum size	8.86 x 1.77 in.	225 x 45mm
Booster diameter	9.45 in.	240mm
Parking brake	Cable-activated integral w/rear brakes	
Total swept area	336.8 sq. in.	2173 sq. cm.

ENGINE

	Chevy Venture and Chevy Venture Cargo Van	
Engine	LA1	
Availability	Standard	
Type	3400 OHV V6	
Block material	Cast-iron	
Cylinder head material	Aluminum	
Bore & stroke (in.)	3.62 x 3.31/ 92 x 84 (mm)	
Displacement (cu. in./cc)	207/3400	
Compression ratio	9.5:1	
Induction system	SFI	
Valves/cylinder	2	
Lifters	Hydraulic roller	
Cam drive	Chain	
Horsepower/kW @ rpm (SAE net)	185 @ 5200/134 kW @ 5200	
Torque/N-m @ rpm (SAE net)	210 @ 4000/278 N-m @ 4000	
Redline (rpm)	6000	
Recommended fuel (min.)	87 Octane	

TRANSMISSION

	Chevy Venture and Chevy Venture Cargo Van	
Gear ratios	Standard 4-speed electronically controlled automatic with overdrive and torque converter	
1st	2.92	
2nd	1.57	
3rd	1.00	
4th	0.70	
Reverse	2.38	
Axle ratio	3.29	

CHASSIS

	Chevy Venture and Chevy Venture Cargo Van	
Frame	All-welded, ladder-type	
Front	Independent w/MacPherson struts & variable-rate coil springs	
Rear	Semi-independent w/coil springs, double-acting shocks	



1999 VENTURE SPECIFICATIONS



MILEAGE/PERFORMANCE*

Powertrain	3400 V6 SFI/4-Speed Automatic Transmission	
Mileage	MPG	liters/100 km
City	18	13.1
Highway	25	9.4
Combined	21	11.2
Estimated Cruising Range	mi.	km
City	450	724
Highway	625	1006
Combined	525	845

*Based on 1998 information and 25-gallon (94.6-liters) fuel capacity.

TRAILERING INFORMATION

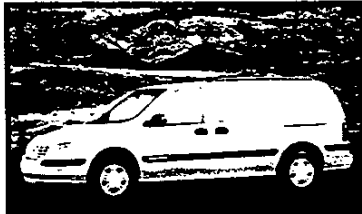
	Chevy Venture	Chevy Venture Cargo Minivan
Trailer classification	Medium	Light
Gross trailer weight (lbs./kg, max.)	3500*/1588	3500*/1588
Max tongue load (lbs./kg, max.)	350*/159	350*/159

*Requires optional Trailering Provisions Package which include heavy-duty cooling with engine oil and transmission oil coolers.

WHEELS & TIRES

	Chevy Venture	Chevy Venture Cargo Van
Standard type	Steel*	Steel
Size (in.)	15 x 6	15 x 6
Standard type	All-season steel-belted radials	All-season steel-belted radials
Standard size	P215/70R-15	P215/70R-15

NA — Not available. *Cast-aluminum wheels are optional.



1999 Chevrolet Venture

VEHICLE SPECIFICATIONS

Body style	Minivan	
Trim levels	Base	LT
Seating capacity	7	7
Wheelbase	112"	120"
Overall length	186.9"	200.9"
Overall width	72"	72"
Overall height	67.4"	68.1"

KEY INFORMATION

- The current Venture minivan was introduced in 1997 MY as a replacement for the controversially-styled, original Chevrolet Lumina APV. For 1999, Chevrolet has added a high-content option package: the "LT." A leather package will also be available with the "LT." Passkey III and new high efficiency alternators are new for 1999.
- The conventionally-styled vehicle has proven successful with customers. In 1997, Venture tied as "America's Most Appealing Minivan" in the J.D. Power Appeal Study. As well, overall minivan production has increased more than 100% over the previous model. 88,500 Ventures were produced in '97, increasing to 116,000 in '98.
- GM built 251,000 minivans in the Doraville, Georgia assembly plant for the 1998 MY. Products built there include the Oldsmobile Silhouette, Pontiac Montana, Chevrolet Venture, and Opel/Vauxhall Sintra.

SELECT STANDARD FEATURES

Mechanical/Performance

3.4L OHV V6:
185 hp @ 5200 rpm
210 lb-ft @ 4000 rpm
Transmission: A4
Front-wheel drive
Front suspension:
Ind. w/MacPherson struts, variable-rate coil springs L-shaped lower control arms, stab. bar
Touring-tuned (LT)

Rear suspension:
Semi-independent twist-axle w/coil springs
Touring-tuned (LT)
Steering:
Power rack-and-pinion
Brakes:
Power vented disc/solid disc

Exterior

Sliding doors:
Passenger-side
Driver-side (LT)
Mirrors:
Dual heated power
Tires:
215/70R15 all-season
Wheels:
Steel w/bolt-on covers
Aluminum (LS, LT)

Interior

Seating:
Cloth
Leather (LT)
6-way power driver's (LT)
Climate control:
Air conditioning
Rear controls (LT)
Windows:
Power front, rear-quarter (LS)
Door locks:
Power w/driver's express-down

SELECT OPTIONS/UPGRADES

Mechanical/Performance

Engine: None as specified
Transmission: None as specified
Suspension: Touring (LS)
Steering: None as specified
Brakes: None as specified

Exterior

Mirrors: None as specified
Doors:
Driver-side sliding
Power passenger-side sliding
Tires: None as specified
Wheels: Aluminum (Base)

Interior

Seating:
8-passenger (LS, LT)
6-way power driver's (LS)
Climate control: None as specified
Windows: None as specified
Door locks: None as specified

SAFETY SYSTEMS

	Standard	Avail. Opt.	N/A
Anti-lock brakes (ABS)	▪		
Traction control	LS, LT		
Stability system			▪
Side-impact air bags	▪		
Integrated child safety seat		▪	
Daytime running lamps	▪		
Theft deterrent	▪		

AUDIO SYSTEM

	Standard	Avail. Opt.	N/A
Cassette	LS, LT	Base	
Compact disc	LT	Base, LS	
Premium system			▪
Antenna: On-glass	▪		
Rear seat audio control	LT	Base, LS	
RDS			▪
Multimedia link			▪



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MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Origin

Design & development (company)	G.M., Midsize Car Division
Where built (country)	U.S.A.
Authorized U.S. sales marketing representative	Chevrolet Motor Division

Vehicle Models

Model Description & Drive (FWD / RWD / AWD / 4WD)*	Introduction Date	Make, Vehicle Models, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front / Rear)	Max. Trunk/Cargo Load-Kilograms (Pounds)	EPA Fuel Economy (City/Hwy)
VENTURE					
MINIVAN, EXTENDED FWD Three Door		1UM06	7(2/2/3) STD		18/25
MINIVAN, EXTENDED FWD Four Door		1UM16	7(2/2/3) STD		18/25
MINIVAN, REGULAR FWD Three Door		1UN06	7(2/2/3) STD		18/25
MINIVAN, REGULAR FWD Four Door		1UN16	7(2/2/3) STD		18/25

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



MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Power Teams

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

		A	B	C	D	
E N G I N E	Engine Code	LA1				
	Displacement Liters (in ³)	3.4 (207)				
	Induction system (FI, Carb, etc.)	Sequential Fuel Injection				
	Compression ratio	9.5:1				
	SAE Net at RPM	Power kW (bhp)	138 (185) @ 5200			
		Torque N • m (lb. ft.)	155 (210) @ 4000			
	Exhaust single, dual	Single				
T R A N S	Transmission/ Transaxle	M15				
	Effective Final Drive / Axle Ratio (std. first)	3.29				

Series Availability		Power Teams (A - B - C - D)	
Model	Code	Standard	Optional
VENTURE			
Minivan, Extended	1UM06	A	
Minivan, Extended	1UM16	A	
Minivan, Regular	1UN06	A	
Minivan, Regular	1UN16	A	

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.4 LITER V6
 LA1

Engine - General

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-chamber, etc.)	60 Degree V, Front, Transverse, OHV	
Manufacturer	General Motors Powertrain	
No. of cylinders	Six	
Bore	92 mm	
Stroke	84 mm	
Bore Spacing (C/L to C/L)	111.76 mm	
Cylinder block material & mass kg. (lbs.) (machined)	Cast Iron, 54.2 (119.5)	
Cylinder block deck height	224 mm	
Cylinder block length	435.5 mm	
Deck clearance (minimum) (above or below block)	0	
Cylinder head material & mass kg. (lbs.)	Aluminum, 6.7 (14.8)	
Cylinder head volume cm ³ (inches ³)	28.2 (1.7)	
Cylinder liner material	Not Applicable	
Head gasket thickness (compressed)	1.55 mm	
Minimum combustion chamber total volume cm ³ (inches ³)	27.2 (1.66)	
Cyl. no. system (front to rear)*	L. Bank	2-4-6
	R. Bank	1-3-5
Firing order	1-2-3-4-5-6	
Intake manifold material & mass kg. (lbs.)**	Aluminum, 8.9 (19.6)	
Exhaust manifold material & mass kg. (lbs.)**	Cast Iron, Right: 4.3 (9.5), Left: 2.3 (5.1)	
Knock sensor (number & location)	One, Left Side of Block	
Fuel required unleaded, diesel, etc.	Unleaded	
Fuel antiknock index (R + M) + 2	87	
Engine Mounts	Quantity	Four (One Engine, One Transmission, Two Torque Struts)
	Material and type (elastomeric, hydroelastic, hydraulic damper, etc.)	One Hydraulic, One Elastomeric, Two Torque Struts
	Added isolation (sub-frame, crossmember, etc.)	Isolated Engine Cradle
Total dressed engine mass (wt) dry***	185 kg	

Engine - Pistons

Material & mass, (weight, oz.) - piston only	Aluminum Alloy, 373 (13.2)
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Engine - Camshaft

Location	Above Crankshaft at Center of "V"	
Material & mass kg (weight, lbs.)	Assembled Steel, 2.3 (5)	
Drive type	Chain / belt	Chain
	Width / pitch	16.2 mm/9.53 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: All those items necessary to make the engine a complete ready-to-run unit.

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description	3.4 LITER V6
Engine Code	LA1

Engine - Valve System

Hydraulic lifters (std., opt., n.a.)	Standard	
Valves	Number intake / exhaust	Six/Six
	Head O.D. intake / exhaust	44.7 mm/36.2 mm

Engine - Connecting Rods

Material & mass kg., (weight, lbs.)*	Forged Steel. 0.59 (1.3)
Length (axes C/L to C/L)	144.8 mm

Engine - Crankshaft

Material & mass kg., (weight, lbs.)*	Cast Iron, 17.2 (37.9)	
End thrust taken by bearing (no.)	Three	
Number & Length of main bearing journals	One - 29.5 mm. Two and Three - 24.0 mm. Four - 36.0 mm	
Seal (material, one, two piece design, etc.)	Front	Viton/Steel, One Piece
	Rear	Viton/Steel, One Piece

Engine - Lubrication System

Normal oil pressure kPa (psi) at engine rpm	345-448 (50-65) @ 1200
Type oil intake (floating, stationary)	Stationary
Oil filter system (full flow, part, other)	Full Flow
Capacity of c/case, less filter-refill-L (qt.)	3.8 (4.0)

Engine - Diesel Information

(NOT APPLICABLE)

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

Engine - Intake System

(NOT APPLICABLE)

Turbo charger - manufacturer	
Super charger - manufacturer	
Intercooler	

* Finished State

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issue# _____ Revised (#) _____

METRIC (U.S. Customary)

Engine Description	3.4 LITER V6
Engine Code	LA1

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)	Standard		
Coolant fill location (rad., bottle)	Bottle		
Radiator cap relief valve pressure kPa (psi)	103 (15)		
Circulation thermostat	Type (choke, bypass)	Bypass	
	Starts to open at °C (°F)	91 (195)	
Water pump	Type (centrifugal, other)	Centrifugal	
	GPM 1000 pump rpm	12	
	Number of pumps	One	
	Drive (V-belt, other)	Poly V-Belt	
	Bearing type	Double Row (Ball/Roller)	
	Impeller material	Cast Iron	
	Housing material	Aluminum	
By-pass recirculation type (inter., ext.)	Internal		
Cooling System capacity	With heater - L (qt.)	Not Applicable	
	With air conditioner - L (qt.)	11.23 L (C60), 12.73 (C60/C34)	
	Opt. equipment specify - L (qt.)	11.67 (C60 & V08), 13.17 (C60/C34 & V08)	
Water jackets full length of cyl. (yes, no)	Yes		
Water all around cylinder (yes, no)	Yes		
Water jackets open at head face (yes, no)	Yes		
Radiator core	Std., A/C, HD	A/C Standard;	H. D. (V08) Included w/Optional Trailer Provisions
	Type (cross-flow, etc.)	Cross-Flow	Cross-Flow
	Construction (fin & tube mechanical, braze, etc.)	Tube & Center, Brazed	Tube & Center, Brazed
	Material, mass kg (wgt., lbs.)	Aluminum 3.29 (7.3)	Aluminum 4.91 (10.9)
	Width	774 mm (30.47 in.)	774 mm (30.47 in.)
	Height	382 mm (15.04 in.)	382 mm (15.04 in.)
	Thickness	16 mm (0.63 in.)	24 (0.94 in.)
	Fins per inch	10	10
Radiator end tank material	Plastic		
Fan	Std., elec., opt	Dual Electric, Shrouded	
	Number of blades & type (flex, solid, material)	Seven, Solid, Plastic	
	Number & location (front, rear of radiator)	Two-Rear of Radiator	
	Diameter & projected width	360 mm (14.17 in.)	
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	None	
	Drive type (direct, remote)	Direct	
	RPM at idle (elec.)	Low Speed: 1020 RPM (LH) STD. 1011 RPM (LH) H. D. 940 RPM (RH) 1216 RPM (RH)	
		High Speed: 1670 RPM (LH) STD. 2400 RPM (LH) H. D. 1970 RPM (RH) 1970 RPM (RH) H. D.	
	Motor rating (wattage/elec.)	Standard (C60)- 90 W (LH), 150W (RH) Optional (C60/C34 & V08) - H.D. - 240 W (LH), 150W (RH)	
	Motor switch (type & location/elec.)	Remote Relay, Electrical Center	
Switch point (temp./pressure/elec.)			
Fan shroud (material)	None		

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.4 LITER V6
 LA1

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

Induction type: carburetor, fuel injection system, etc.		Sequential Fuel Injection
Manufacturer		Delphi
Carburetor no. of barrels		Not Applicable
Idle A/F mix.		PCM Controlled
Fuel injection	Point of injection (no.)	Ports (Six)
	Constant, pulse, flow	Pulse
	Control (electronic, mech.)	Electronic
	System pressure kPa (psi)	300 (43.5)
Idle speed-rpm (spec. neutral or drive and propane if used)	Manual	Not Applicable
	Automatic	PCM Controlled
Intake manifold heat control (exhaust or water thermostatic or fixed)		Fixed
Air cleaner type		Replaceable Paper Element
Fuel filter (type/location)		Inline, Replaceable / Near Fuel Tank
Fuel pump	Type (elec. or mech.)	Electric
	Location (eng., tank)	Tank
	Pressure range kPa (psi)	250 - 300 (36-44)
	Flow rate at regulated pressure L (gal)/hr @ kPa (psi)	85 (17.5) @ 300 (43.5)

Fuel Tank

Capacity refill L (gallons)		76 (20) Regular; 95 (25) Extended
Location (describe)		Left Center of Vehicle Between Rails
Attachment		Three Steel Straps -Cross Car
Material & Mass kg. (weight lbs.)		High Density Polyethylene / Ethyl Vinyl Alcohol
Filler pipe	Location & material	Above Left Rear Wheel - Steel - Plastic
	Connection to tank	Hose and Clamp
Fuel line (material)		PTFE / PA and Steel
Fuel hose (material)		Low Permeation Rubber - Reinforced
Return line (material)		PTFE / PA and Steel
Vapor line (material)		PTFE / PA and Steel
Extended range tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	Not Applicable
	Location & material	Not Applicable
	Attachment	Not Applicable
Auxiliary tank	Opt., n.a.	Not Applicable
	Capacity L (gallons)	Not Applicable
	Location & material	Not Applicable
	Attachment	Not Applicable
	Selector switch or valve	Not Applicable
Separate fill		Not Applicable

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description
 Engine Code

3.4 LITER V6
 LA1

Vehicle Emission Control

Type (air injection, engine modifications, other)		See Below		
Exhaust Emission Control	Air injection	Pump or pulse	Not Applicable	
		Driven by	Not Applicable	
		Air distribution (head, manifold, etc.)	Not Applicable	
		Point of entry	Not Applicable	
	Exhaust Gas	Type (controlled flow, open orifice, other)	Controlled Flow	
		Exhaust source	Exhaust Manifold	
	Recirculation	Point of exhaust injection (spacer, carburetor, manifold, other)	Intake Manifold	
		Catalytic Converter	Type	Bed Monolith
	Number of		One	
	Location(s)		Underbody	
	Volume L (in ³)		2.7 (163)	
	Substrate type		Monolith/Ceramic	
	Noble metal type		Platinum/Rhodium (Federal); Platinum/Palladium/Rhodium (TLEV)	
Noble metal concentration				
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)		Right rear rocker arm cover	
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	From Fuel Tank To	Canister	
		From Carburetor To	Not Applicable	
	Vapor storage provision		Canister	
Electronic system	Closed loop (yes/no)		Yes	
	Open loop (yes/no)		No	

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		Single W/Cross Over
Muffler no. & type (reverse flow, straight thru, separate resonator), Muffler volume (liters), Material & Mass kg. (weight lbs.)		1, Reverse Flow, 18.9 Liters, Stainless Steel
Resonator no., type, & volume (liters)		1, Straight Thru, 5.7 Liters
Exhaust pipe	Branch o.d., wall thickness	57.2 mm (2.25 in.), Diameter
	Main o.d., wall thickness	57.2 x 1.5 mm (2.25 x .060 in.)
	Material & Mass kg. (weight lbs.)	Stainless Steel
Intermediate pipe	o.d. & wall thickness	57.2 x 1.5 mm (2.25 x .060 in.)
	Material & Mass kg. (weight lbs.)	Stainless Steel
Tail pipe	o.d. & wall thickness	54 x 1.2 mm (2.13 x .048 in.)
	Material & Mass kg. (weight lbs.)	Stainless Steel

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description	3.4 LITER V6
Engine Code	LA1

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

Manual 4-speed (manufacturer/country)	Not Applicable
Manual 5-speed (manufacturer/country)	Not Applicable
Manual 6-speed (manufacturer/country)	Not Applicable
Automatic (manufacturer/country)	Not Applicable
Automatic overdrive (manufacturer/country)	GM Powertrain,U.S.A

Manual Transmission/Transaxle (NOT APPLICABLE)

Number of forward speeds		
Gear ratios	1st	
	2nd	
	3rd	
	4th	
	5th	
	6th	
	Reverse	
Synchronous meshing (specify gears)		
Shift lever location		
Trans. case material & mass kg. (lbs.)*		
Lubricant	Capacity L (pt.)	
	Type recommended	

Clutch (Manual Transmission) (NOT APPLICABLE)

Clutch manufacturer		
Clutch type (dry, wet, single, multiple disc)		
Linkage (hydraulic, cable, rod, lever, other)		
Max. pedal effort (nom. spring load) N (lbs.)	Depressed	
	Released	
Assist (spring, power/percent, nominal)		
Type pressure plate springs		
Total spring load (nominal) N (lbs.)		
Clutch facing	Facing mfg. & material coding	
	Facing material & construction	
	Rivets per facing	
	Outside x inside dia. (nominal)	
	Total eff. area cm ² (in. ²)	
	Thickness (pressure plate side/wheel side)	
	Rivet depth (pressure plate side/wheel side)	
Engagement cushion method		
Release bearing type & method lub.		
Torsional damping method, springs, hysteresis		

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

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description Engine Code	3.4 LITER V6 LA1
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Automatic Transmission/Transaxle

Trade Name		Hydra-Matic 4T65-E (M15) Transaxle
Type and special features (describe)		Four-Speed Automatic W/Torque Converter Clutch
Shift mechanics		Hydraulic Clutches/Electronic Controls
Gear selector	Location (column, floor, other)	Column (Mechanical)
	Ltr./No. designation (e.g. PRND21)	P-R-N-(D)-D-2-1
	Shift interlock (yes, no, describe)	Yes-Brake, Ignition Key
Gear ratios	1st	2.92
	2nd	1.57
	3rd	1.00
	4th	0.70
	5th	Not Applicable
	6th	Not Applicable
	Reverse	2.38
Final drive ratio		3.29
Max. upshift vehicle speed - drive range km/h (mph)		One - Two = 66 (41) Three - Four = N/A Two - Three = 130 (81)
Max. upshift engine speed RPM		5700 RPM
Max. kickdown speed - drive range km/h (mph)		3 - 2 = 121 (75) 2 - 1 = 51 (31.5)
Min. overdrive speed km/h (mph)		63 (39)
Torque converter	Type	Lock-Up
	Torus design	Yes
	Number of elements	Three
	Max. ratio at stall	1.95
	Type of cooling (air, liquid)	Liquid
	Nominal diameter	245 mm
Capacity factor "K"		163 K
Pump type		Variable Displacement Vane
Lubricant	Capacity refill L (qts.)	12.7 (13.4) Dry
	Type recommended	Dexron III
Oil cooler (std., opt., N.A., internal, external, air, liquid)		Standard - Liquid
Transmission mass kg (lbs.) & case material**		93.63 kg (206.33 lbs) Incl Fluid, Cast Aluminum

All Wheel / 4 Wheel Drive

(NOT APPLICABLE)

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

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

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

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description **3.4 LITER V6**
 Engine Code **LAI**

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

Effective final drive ratio (or overall top gear ratio)		3.29
Transfer ratio and method (chain, gear, etc.)		One / One, Chain
Front drive unit	Ring gear o.d.	Not Applicable
	No. of teeth	Not Applicable
	Pinion	Not Applicable
	Ring gear	Not Applicable

Front Drive Unit

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

Axle Shafts - Front Wheel Drive

Manufacturer and number used		Delphi Saginaw, Two		
Type (straight, solid bar, tubular, etc.)	Left	Straight, Solid		
	Right	Straight, Solid		
Outer diam. x length* x wall thickness	Manual Transaxle	Left	Not Applicable	
		Right	Not Applicable	
	Automatic transaxle	Left	27.1 x 337.32 mm	
		Right	27.1 x 375.32 mm	
	Optional transaxle	Left	Not Applicable	
		Right	Not Applicable	
Slip yoke	Type	Not Applicable		
	Number of teeth	Not Applicable		
	Spline o.d.	Not Applicable		
Universal joints	Make and mfg. no.	Inner	Delphi Saginaw	
		Outer	Delphi Saginaw	
	Number used	Inbrd. & Outbrd. on Each Axle		
	Type, size, plunge	Inner	Tripot - 66.0 mm Stroke, 27 size	
		Outer	Rzeppa - Fixed Center	
	Attach (u-bolt, clamp, etc.)		Retaining Ring (inboard) - Flanged Nut (Outboard)	
	Bearing	Type (plain, anti-friction)	Inner - Ball & Needle Outer - Ball	
Lubrication (fitting, prepack)		Prepacked		
Drive taken through (torque tube, arms or springs)		Wishbone Lower Control Arm, Upper MacPherson Strut		
Torque taken through (torque tube, arms or springs)		Engine Mounting System		

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

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Suspension - General Including Electronic Controls

Car leveling	Standard/optional/not available		Optional	
	Manual/automatic control		Automatic	
	Type (air/hydraulic)		Air	
	Primary/assist spring		Assist Spring	
	Rear only/4 wheel leveling		Rear Only	
	Single/dual rate spring		Single Rate	
	Single/dual ride heights		Single Ride Height	
Shock absorber damping controls	Provision for jacking		None	
	Standard/option/not available		Not Available	
	Manual/automatic control		Not Available	
	Number of damping rates		Not Available	
	Type of actuation (manual/electric motor/air, etc.)		Not Available	
	Sensors	Lateral acceleration		Not Available
		Deceleration		Not Available
Acceleration		Not Available		
Road surface		Not Available		
Shock absorber (front & rear)	Type		Front: Twin Tube, Gas Charged; Rear: Twin Tube, Gas Charged	
	Make		Front: Delphi Chassis; Rear: Arvin Ride Controls (base) Delphi Chassis (Air Lift)	
	Piston diameter		Front: 32 mm (1.26 in.); Rear 32 mm (1.26 in.)	
	Rod diameter		Front: 22 mm (0.9 in.); Rear 12.5 (0.50 in.)	

Suspension - Front

Type and description		MacPherson Strut with Coil Springs, Stamped L-Shaped Lower Control Arm and Aluminum Steering Knuckles
Travel	Full jounce (define load condition)	102 (From Curb)
	Full rebound	82 (From Curb)
Spring	Type (coil, leaf, other & material)	Coil, Steel
	Insulators (type & material)	Natural Rubber
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	189.3 mm DSN HT; Max I.D. 150 mm
	Spring rate N/mm (lb./in.)	FE1/FE3: 27 N/mm
	Rate at wheel N/mm (lb./in.)	FE1/FE3: 31.5 N/mm
Stabilizer	Type (link, linkless, frameless)	Linked to Control Arm
	Material & O.D. bar/tube, wall thickness	34 mm Hollow

Suspension - Rear

Type and description		Trailing Arm with Stamped Control Arms and Open Section Transverse Beam	
Travel	Full jounce (define load condition)	95 from Curb	
	Full rebound	92 from Curb	
Spring	Type (coil, leaf, other & material)	Coil, Steel, Double Pigtail	
	Size (Leaf: length & width; Coil: design height & i.d.; Bar: length & diameter)	154 mm O.D. Coil; 13.0 mm Dia. Wire	
	Spring rate N/mm (lb./in.)	27 N/mm, Standard; 32N/mm, Optional	
	Rate at wheel N/mm (lb./in.)	27 N/mm, Standard; 32N/mm, Optional	
	Insulators (type & material)		Upper & Lower, Natural Rubber
	If leaf	No. of leaves	Not Applicable
Shackle (comp. or tens.)		Not Applicable	
Stabilizer	Type (link, linkless, frameless)	Linkless	
	Material & O.D. bar/tube, wall thickness	36 mm / 4mm Hollow	
Track bar (type)		Transverse Link - Open Section	

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Brakes - Service

Description		Single Piston Caliper Disc Front; Leading-Trailing Drum Rear			
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)	Disc			
	Rear (disc or drum)	Drum			
Valving type (proportion, delay, metering, other)		Proportioning			
Power brake (std., opt., n.a.)		Standard			
Booster type (remote, integral, vac., hyd., etc.)		Vacuum			
Vacuum	Source (inline, pump, etc.)	Inline			
	Reservoir (volume in. ³)	None			
	Pump-type (elec., gear or belt driven)	Not Available			
Traction assist		All Speeds			
Type (engine or brake intervention)		Brake and Powertrain Torque Management			
Antilock device	Front/rear (std., opt., n.a.)		Standard		
	Manufacturer		Delphi Chassis Systems		
	Type (electronic, mech.)		Electronic		
	Number sensors or circuits		Four		
	Number antilock hydraulic circuits		Four		
	Integral or add-on system		Add-On Mounted to Master Cylinder		
	Yaw control (yes, no)		Yes		
Hyd. power source (elec., vac., mtr., pwr., strg.)		Not Applicable			
Effective area cm ² (in. ²)*		150 cm ² (23.2 in ²) Total Frt.			
Gross Lining area cm ² (in. ²)** (F/R)		225 cm ² (34.8 in ²) Total Frt.			
Swept area cm ² (in. ²)** (F/R)		749 cm ² (116 in ²) Per Corner			
Rotor	Outer working diameter	F/R	278 mm (10.94 in.)		
	Inner working diameter	F/R	172 mm (6.77 in.)		
	Thickness	F/R	32.2 mm (1.27 in.)		
	Material & type (vented/solid)	F/R	Cast Iron, Vented		
Drum	Diameter & width	F/R	225 x 45 mm (8.86 x 1.77 in.)		
	Type and material	F/R	Composite Cast Iron, Finned		
Wheel cylinder bore		63.5 mm (2.49 in.)			
Master cylinder	Bore/stroke	F/R	25.4 mm (0.99 in.) / 35.44 mm (1.39 in.)		
Pedal arc ratio		3.93:1			
Line press. at 445 N (100 lb.) pedal load (kPa (psi))					
Lining clearance		F/R	Self-Adjusting 0/0.381 mm		
Brake lining	Front wheel	Bonded or riveted (rivets/seg.)		Bonded	
		Rivet Size		Not Applicable	
		Manufacturer		Delphi Chassis systems	
		Lining code *****		DM 130 EE	
		Material		Semi-Metallic	
		****	Primary or out-board	126 x 47 x 12 mm (4.96 x 1.85 x 0.47 in.)	
		Size	Secondary or in-board	126 x 47 x 12 mm (4.96 x 1.85 x 0.47 in.)	
	Shoe thickness (no lining)		4.85 mm		
	Rear wheel	Bonded or riveted (rvts/seg.)		Riveted	
		Manufacturer		Delphi Chassis Systems	
		Lining code *****		245 FF	
		Material		Semi-Metallic	
		****	Primary or out-board	224.8 x 43.9 x 6.4 mm (8.85 x 1.73 x 0.25 in.)	
		Size	Secondary or in-board	224.8 x 43.9 x 6.4 mm (8.85 x 1.73 x 0.25 in.)	
Shoe thickness (no lining)		2 mm (0.079 in.)			

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

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Tires And Wheels (Standard)

Tires	Size (service description)		P205/70R15 All Season 95S Regular; P215/70R15 All Season 97S Extended
	Type (bias, radial, steel, nylon, etc.)		Steel Belted Radial
	Inflation pressure (cold) for recommended max. vehicle load	Front kPa (psi)	240 (35)
		Rear kPa (psi)	240 (35)
Rev./mile at 70 km/h (45 mph)			
Wheels	Type & material		Steel
	Rim (size & flange type)		15 x 6.0 J
	Wheel offset		52 mm
	Attachment	Type (bolt or stud & nut)	Stud/Nut
		Circle diameter	115 mm (4.53 in.)
Number & size		Five. M12 x 1.5	
Spare	Tire and wheel		T125/70R15 B.W. Compact Spare, Radial, Wheel Dia. x Width 15 x 4, Inflation Pressure (60 psi/415 kPa)
	Storage position & location (describe)		Horizontal, Under Floor

Tires And Wheels (Optional)

Tire size (service description)	P215/70R15 Touring 97S
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial
Wheel (type & material)	Cast Aluminum or Steel
Rim (size, flange type and offset)	15 x 6.0 J x 52
Tire size (service description)	P215/70R15 97S
Type (bias, radial, steel, nylon, etc.)	Steel Belted Radial Touring W/Sealant
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (service description)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Tire size (service description)	
Type (bias, radial, steel, nylon, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel size	
(if configuration is different than road tire or wheel, describe optional spare tire and/or wheel location & storage position)	

Brakes - Parking

Type of control		Foot Pedal Application
Location of control		Under Instrument Panel, Left of Steering Column
Operates on		Rear Service Brakes
If separate from service brakes	Type (internal or external)	-
	Drum diameter	-
	Lining size (length x width x thickness)	-

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Steering

Manual (std., opt., n.a.)		Not Applicable	
Power (std., opt., n.a.)		Standard	
Speed-sensitive (std., opt., n.a.)		Not Available	
4-wheel steering (std., opt., n.a.)		Not Available	
Adjustable steering wheel/column (tilt, telescope, other)	Type	Tilt Column	
	Manufacturer	Delphi Saginaw Steering Systems	
	(std., opt., n.a.)	Optional	
Wheel diameter** (W9) SAE J1100	Manual	Not Applicable	
	Power	395 mm (15.6 in.)	
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	12.33 m (40.5 ft.) Regular 12.94 m (42.5 ft.) Extended
		Curb to curb (l. & r.)	11.77 m (38.6 ft.) Regular 12.39 m (40.6 ft.) Extended
	Inside rear	Wall to wall (l. & r.)	11.9 m (39.1 ft.) Regular 12.6 m (41.4 ft.) Extended
		Curb to curb (l. & r.)	11.4 m (37.4 ft.) Regular 12.1 m (39.7 ft.) Extended
Scrub Radius*		-10.7 mm (-0.42 in.)	
Manual	Gear	Type	Not Applicable
		Manufacturer	Not Applicable
		Ratios	Not Applicable
	No. wheel turns (stop to stop)		Not Applicable
Power	Type (coaxial, elec. hyd., etc.)		Hydraulic
	Manufacturer		Delphi Saginaw Steering Systems
	Gear	Type	Rack and Pinion with Integral Power Unit
		Ratios	Not Applicable
		Overall	16.8:1
	Pump (drive)		Belt Off Crankshaft Pulley
No. wheel turns (stop to stop)		3.05	
Linkage	Type		End Take-Off Tie Rods
	Location (front or rear of wheels, other)		Rear of Front Wheel Centerline
	Tie rods (one or two)		Two
Steering axis	Inclination at camber (deg.)		13.7
	Bearings (type)	Upper	Ball Bearing
		Lower	Ball Joint
		Thrust	Ball Bearing
Steering spindle/knuckle & joint type		MacPherson Strut with Lower Ball Joint	

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

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description And/Or
 Engine Code/Description

ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	2.9 (±) 0.5 : Cross-Caster within 0.75
		Camber (deg.)	-0.70 (±) 0.5 : Cross-Camber Within 0.75
		Toe-in outside track mm (in.)	0.0 (±) 0.10: Sum Toe 0.20 Deg. max.
	Service reset*	Caster (deg.)	Not Adjustable
		Camber (deg.)	-0.70 (±) 0.5 : Cross-Camber Within 0.75
		Toe-in mm (in.)	0.0 (±) 0.10: Sum Toe 0.20 Deg. max.
	Periodic M.V. inspection	Caster (deg.)	Not Adjustable
		Camber (deg.)	-0.70 (±) 0.5 : Cross-Camber Within 0.75
		Toe-in mm (in.)	0.0 (±) 0.10: Sum Toe 0.20 Deg. max.
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	-1.0 (±) 0.3
		Toe-in outside track mm (in.)	-0.0 (±) 0.3 Total (Thrust = ± .15) Deg.
	Service reset*	Camber (deg.)	Not Adjustable
		Toe-in mm (in.)	Not Adjustable
	Periodic M.V. insp.	Camber (deg.)	-1.0 (±) 0.3
		Toe-in mm (in.)	0.0 (±) 0.3 Total (Thrust = ± .15) Deg.

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

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	Analog Standard
	Trip odometer (std., opt., n.a.)	Standard
Head-up display	Standard, optional, not available	Not Available
	Type	Secondary, opto-electronic
	Speedometer	Digital
	Status/warning indicators	Turn signals, high beam, low fuel, check gauges
	Brightness control	Day / night mode, adjustable
EGR maintenance indicator		
Charge indicator	Type	Indicator
	Warning device (light, audible)	Light
Temperature indicator	Type	Analog
	Warning device (light, audible)	Light
Oil pressure indicator	Type	Indicator
	Warning device (light, audible)	Light
Fuel indicator	Type	Analog
	Warning device (light, audible)	Low Fuel Light
Windshield wiper	Type (standard)	Two-Speed, Depressed Park, Symmetrical Overlap
	Type (optional)	Not Available
	Blade length	24 in. (600 mm)
	Swept area cm ² (in. ²)	8484.4 cm ²
Windshield washer	Type (standard)	Wet-Arm System
	Type (optional)	Not Available
	Fluid level indicator (light, audible)	Not Available
Rear window wiper, wiper/washer (std., opt., n.a.)		Standard (Delay Wipe/Demand Wash)
Horn	Type	Air Tone
	Number used	Two
ABS Fault / Active Indicator	Type	Light
	Warning Device	Not Available

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Description **3.4 LITER V6**
 Engine Code **LA1**

Electrical - Supply System

Battery	Manufacturer	Delphi - E		
	Model, std., (opt.)	78A - 72		
	Voltage	12		
	Amps at -18° C. cold crank	600		
	Minutes-reserve capacity @27° C	115		
	Amps/hrs. (20 hr Rate)	69		
	Location	Front Right Engine Compartment		
Generator	Manufacturer	Bosch	Bosch	
	Rating (idle/max. rpm)(1600/6500 GRPM)	42/105	60/125	
	Ratio (alt. crank/rev.)	2.55:1		
	Output at idle (rpm, park) A/C on (Hi-Temp)	66 (775 ERPM) @25° C Air Inlet	86 Amps (775 ERPM) @25° C Air Inlet	
	Optional (type & rating)	Base	Optional w/Rr.A/C	
Regulator	Type	Integral with Generator	Integral with Generator	

Electrical - Starting System

Motor	Manufacturer	Delco Remy America	
	Current drain	325 Amperes	
	Power rating kw (hp)	1.5 (2.0)	
Motor drive	Engagement type	Solenoid Actuated, Positive Engagement	
	Pinion engages from (front, rear)	Front	

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	Standard		
	Other (specify)	Not Applicable		
Coil	Manufacturer	Delphi		
	Model	Direct Ignition System		
	Current	Engine stopped - A		
		Engine idling - A		
Spark plug	Manufacturer	Delphi		
	Model	41 - 940		
	Thread (mm)	14		
	Tightening torque N-m (lb. ft.)	9-20 (7-15)		
	Gap	1.5 mm		
	Number per cylinder	One		
Distributor	Manufacturer	Not Applicable		
	Model	Not Applicable		

Electrical - Suppression

Locations & type	Internal Generator Capacitor, Non-Metallic High Tension Ignition Cables, Resistor Spark Plugs, Ignition Coil By-Pass Capacitor, Internal AC Blower Motor By-Pass Capacitor & A/C Compressor Diode, Internal Capacitors for Cooling Fan and Windshield Wiper Motor.
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MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issue Revised (●)

METRIC (U.S. Customary)

Model Code/Description

ALL

Body

Structure	Full Unitized Steel Body Construction Including Steel Roof and Quarter Panels. Doors and Liftgate Feature Steel Panel Construction. Hood is Aluminum Inner and Outer.
Bumper system front - rear	Fascia - TPO Polypropylene Foam Energy Absorber Front and Rear Steel Front Impact Bar Azdel Rear Impact Bar
Anti-corrosion treatment	Two-Sided Galvanized Metals, Phosphate Treatments, and Electro Deposition Primers

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)	Base Coat/Clear Coat High Solids Enamel	
Hood	Material & mass	
	Hinge location (front, rear)	
	Type (counterbalance, prop)	Four Bar Link with a Prop Rod at the Front
	Release control (internal, external)	Body Interior Release of Primary Latch with Lever Operation Secondary
Trunk lid	Material & mass	Not Applicable
	Type (counterbalance, other)	Not Applicable
	Internal release control (elec., mech., n.a.)	Not Applicable
Hatchback lid	Material & mass	Not Applicable
	Type (counterbalance, other)	Not Applicable
	Internal release control (elec., mech., n.a.)	Not Applicable
Tailgate	Material & mass	Steel
	Type (drop, lift, door)	Liftgate One Piece with Fixed Glass
	Internal release control (elec., mech., n.a.)	External Key-Operated Unlock; Handle-Operated Unlatch
Vent window control (crank, friction, pivot, power)	Front	Not Applicable
	Rear	Pivot - Standard; Power - Optional
Window regulator type (cable, tape, flex drive, etc.)	Front	Cross Arm Regulator with Fixed Point Geometry
	Rear	Rear Side Glass is Flip Out Hinged at the Front Over Center Latch at Rear
Seat cushion type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Buckets with Full Foam Cushions
	Rear	Std. - Split Bench w/Full Foam Cushions - Easy Removal Opt. - Buckets and Split Benches with Adjusters
	3rd seat	Std. - Split Bench w/Full Foam Cushions - Easy Removal Opt. - Buckets and Split Benches with Adjusters
Seat back type (e.g., 60/40 bucket, bench, wire, foam, etc.)	Front	Buckets with Full Foam Backs
	Rear	Std. - Split Bench with Full Foam Cushions - Easy Removal Opt. - Buckets and Split Benches with Recliners
	3rd seat	Std. - Split Bench with Full Foam Cushions - Easy Removal Opt. - Buckets and Split Benches with Recliners

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	Unitized Steel Body; Separate Engine Cradle
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MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

Restraint System

Seating Position			Left	Center	Right
Active	Type & description (lap & shoulder belt, lap belt, etc.)	First seat	Lap & Shoulder Belt		Lap & Shoulder Belt
	Standard / Optional	Second seat	Lap & Shoulder Belt	Lap Belt	Lap & Shoulder Belt
		Third seat	Lap & Shoulder Belt	Lap Belt	Lap & Shoulder Belt
Passive	Type & description (air bag, motorized-2-point belt, fixed belt, knee bolster, manual-lap belt)	First seat	Air Bag & Knee Bolster		Air Bag & Knee Bolster
	Standard / Optional	Second seat			
		Third seat			
Glass		SAE Ref.No.	REGULAR	EXTENDED	
Windshield glass exposed surface area cm ² (in. ²)		S1	12,145 (1882)	12,145 (1882)	
Side glass exposed surface area cm ² (in. ²) - total 2 sides		S2	20,306 (3147)	23,676 (3670)	
Backlight glass exposed surface area cm ² (in. ²)		S3	5,388 (835)	5,388 (835)	
Total glass exposed surface area cm ² (in. ²)		S4	37,839 (5865)	41,209 (6387)	
Windshield glass (type/thickness)			Laminated Glass, 5.4 mm		
Side glass (type/thickness)			Tempered Glass, 4.0		
Backlight glass (type/thickness)			Tempered Glass, 4.0		
Tinted (yes/no, location)			Yes, Side and Back Glass		
Solar control (yes/no, coated/batched, location)			Yes, Coated, Windshield; Solar Control on Dark Tint, Quarter Glass & Backlight		

Headlamps

Description (sealed beam, halogen, replaceable bulb, etc.)	Dual Filament, Replaceable Bulb
Shape	Rectangular
Lo-beam type (2A1, 2B1, 2C1, etc.)	9004 - HB1 (Lo and Hi-Beam - One Bulb)
Quantity	Two - One On Each Side
Hi-beam type (1A1, 2A1, 1C1, 2C1, etc.)	9004 - HB1 (Lo and Hi-Beam - One Bulb)
Quantity	

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Engine Code/Description

3.4 LITER V6
LA1

Climate Control System

Air conditioning (std., opt., man., auto.)		Standard Manual Front A/C: (C60)	Optional Manual Front/Rear A/C (C34)
Condenser	Type	Tube & Fin Aluminum (C60);	Header Tube and Center Aluminum (C34)
	Eff. face area (sq. mm.)	315,180 (C60);	298,680 (C34)
	Fins per inch	15 (C60);	10 (C34)
Evaporator	Type	Plate & Center	
	Eff. face area (sq. mm.)	60,880	
	Fins per inch	14	
Heater core	Material	Aluminum	
	Eff. face area (sq. mm.)	33,2250	
	Fins per inch	38	
Compressor	Type	Variable Disp. 5 Cylinder Axial	
	Displacement (cc.)	150.7	
	Manufacturer	Delphi Harrison Thermal Systems	
	A/C pulley ratio	1.34	
Accumulator	Type	Aluminum	
	Height (mm.)	232.2	
	Diameter (mm.)	88.8	
Receiver	Type	Not Applicable	
	Height (mm.)	Not Applicable	
	Diameter (mm.)	Not Applicable	
Refrigerant control (CCOT, TVS, etc.)		VDOT (Variable Displacement Orifice Tube)	
Heater water valve (yes / no)		No	
Refrigerant (R - 12, R - 134a, etc.)		R-134a	
Charge level (lbs. - oz.)		2.0 (C60);	2.87 (C34)
Cold engine lockout switch (yes / no)		No	
Wide open throttle cutout switch (yes / no)		Yes	

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/Description

ALL

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

Clock (digital, analog)	Digital Standard. Included W/Standard Radio - All	
Compass / thermometer	Not Available	
Console (floor, overhead)	Floor - Std. / Overhead - Std.	
Defroster, electric windshield	Not Available	
Defroster, electric backlight	Optional	
Electronic	Diagnostic monitor (integrated, individual)	Not Available
	Instrument cluster (list instruments)	Speedometer, Temperature Gage, Fuel Gage, Odometer, Trip Odometer
	Keyless entry	Active Two - Button; Active Three - Button w/Opt. Power Sliding Door; Active Four - Button w/power Sliding Door and w/Opt. Alarm
	Tripminder (avg. spd., fuel)	Digital (Inc. w/Opt. Extended Overhead Console)
	Voice alert (list items)	Not Available
	Other	Not Available
Fuel door lock (remote, key, electric)	Not Available	
Integrated Child Seating	Std./opt. & location in vehicle	Optional; 2nd Row Bucket or 40/60 Split Bench with Recliners
	Number of occupants	One Per Seat
	Occupant weight/height (min. & max.)	20-40 Pounds and Less then 40" - Use 5-Point Belt System Plus 40 Pounds - Use 3 Point Belt System
	Restraint system description (3 or 5-point belts/booster seat capability)	Five - Point Belt System with Manual Cinch; Booster Capable
Lamps	Daytime Running Lamps (Yes/No)	Yes
	Comenng	Not Available
	Courtesy (map, reading)	Standard
	Door lock, ignition	Interior Door Lock Switches Lighted (W/Opt. Power Door Locks)
	Engine compartment	Standard
	Fog	Not Available
	Glove compartment	Standard
	Trunk	Not Applicable
	Illuminated entry system (list lamps, activation)	Standard -- I/P Courtesy, Two: Second Row Center Dome, Rear Cargo Dome, Roof-Console Map Lamps, Two
Other	Rear Reading Lamp, Optional (Standard - 1UM16/1UN16) I/P Ashtray - Standard	
Mirrors	Day / night (auto., man.)	Standard - Manual
	L.H. (remote, power, heated)	Power Standard
	R.H. (convex, remote, power, heated)	Power Standard - Convex
	Visor vanity (RH / LH, illuminated)	RH/LH Non-Illum. Standard; Illuminated Optional
Navigation system (describe)	Not Available	
Parking brake-auto release (warning light)	Warning Light Standard; Auto Release Not Available	

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 *Issue* _____ *Revised (●)* _____

METRIC (U.S. Customary)

Model Code/Description

ALL

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

Power equipment	Deck lid (release, pull down)		Not Applicable
	Door locks (manual, automatic, describe system)		Standard Automatic Lock System Provides Lock/Unlock of All Doors Inc. Liftgate Via Front Door Switches; Sliding Door Lock Delay, Auto Lock Out of Park is a Customized Feature. Remote Keyless Entry - Optional
	Seats	2 - 4 - 6 way, etc.	Six-Way Power Optional for Driver Seat
		Reclining (R.H., L.H.)	Not Available
		Memory (R.H., L.H., preset recline)	Not Available
		Support (lumbar, hip, thigh, etc.)	Not Available
		Heated (R.H., L.H., other)	Not Available
	Side windows		Optional - Front Door Windows Only
	Vent windows		Not Available
	Rear windows		Optional (Rear Quarter Vent)
Radio systems	Antenna (location, whip, w/shield, power)		Integrated Windshield
	Standard	AM, FM, stereo, tape, compact disc, theft deterrent, radio prep package, headphone jacks, etc.	AM/FM Stereo/Clock
	Optional		AM/FM Stereo/Clock/Cassette AM/FM Stereo/Cassette/Rear Seat Audio AM/FM Stereo/Compact Disc/Rear Seat Audio Remote CD Player Rear Seat Audio
			Speaker (number, location)
Roof: open air or fixed (flip-up, sliding, "T")		Not Available	
Speed control device		Optional, Includes Resume Speed and Acceleration Feature	
Speed warning device (light, buzzer, etc.)		Not Available	
Tachometer (rpm)		Not Available	
Telephone system (describe)		Not Available	
Theft deterrent system		Optional	

Trailer Towing

	Yes / No	Yes
Towing capable		
Engine / transmission / axle	Std. / Opt.	3.4L V6 / 4A / 3.29, Std.
Tow class (I, II, III)*	Std. / Opt.	I (Class II W/Opt. Trailering Provisions (V92))
Max. gross trailer wgt. (lbs.)	Std. / Opt.	2000 lbs. (Limited by Max. GCW of 6607 lbs.), Std. 3500 lbs. (Limited by Max. GCW of 8107 lbs.), Opt.
Max. trailer tongue load (lbs.)	Std. / Opt.	200 lbs., Std.; 350 lbs., Opt.
Towing package available	Yes / No	Yes, Opt. Trailering Provisions (V92)

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

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions See Key Sheets for definitions

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

Model Code/Description	SAE Ref. No.	REGULAR	EXTENDED
Width			
Tread (front)	W101	1562 (61.5)	1562 (61.5)
Tread (rear)	W102	1608 (63.3)	1608 (63.3)
Vehicle width	W103	1830 (72.0)	1830 (72.0)
Body width at SgRP (front)	W117	1803 (71.0)	1803 (71.0)
Vehicle width (front doors open)	W120	3550 (139.8)	3550 (139.8)
Vehicle width (rear doors open)	W121	1057 (41.6)	1057 (41.6)
Tumble-home (degrees)	W122	18	18
Outside mirror width	W410	2177 (85.7)	2177 (85.7)

Length

Wheelbase	L101	2845 (112.0)	3047 (120.0)
Vehicle length	L103	4747 (186.9)	5102 (200.9)
Overhang (front)	L104	936 (36.9)	935 (36.8)
Overhang (rear)	L105	966 (38.0)	1120 (44.1)
Upper structure length	L123	3246 (127.8)	3601 (141.8)
Rear Wheel C/L "X" coordinate	L127	4638 (182.6)	4840 (190.6)

Height **

Passenger distribution (front/rear)	PD1 2,3	Not Available	Not Available
Trunk/cargo load		Not Applicable	Not Applicable
Vehicle height	H101	1712 (67.4)	1729 (68.1)
Cowl point to ground	H114	1071 (42.2)	1080 (42.5)
Deck point to ground	H138	No Deck	No Deck
Rocker panel-front to ground	H112	222 (8.7)	232 (9.1)
Rocker panel-rear to ground	H111	242 (9.5)	258 (10.2)
Windshield slope angle (degrees)	H122	57	57
Backlight slope angle (degrees)	H121	27.8	27.8

Ground Clearance **

Front bumper to ground	H102	212 (8.3)	217 (8.5)
Rear bumper to ground	H104	264 (10.4)	280 (11.0)
Bumper to ground front at curb mass (wt.)	H103	224 (8.8)	231 (9.1)
Bumper to ground rear at curb mass (wt.)	H105	277 (10.9)	289 (11.4)
Angle of approach (degrees)	H106	19.4	19.8
Angle of departure (degrees)	H107	15	15.2
Ramp breakover angle (degrees)	H147	12	11.9
Axle differential to ground (front/rear)	H153	Not Available	Not Available
Min. running ground clearance	H156	139 (5.5) (At RR. Shock Bracket)	152 (6.0) (At RR. Shock Bracket)
Location of min. running ground clear.		Front Cradle	Front Cradle

** All Vehicle Height And Ground Clearance Are Made Using EPA Loaded Vehicle Weight, Loading Conditions. EPA loaded vehicle weight is the base vehicle weight plus all coolant and fluids necessary for operation plus 100% of the fuel capacity, plus the weight of all options and accessories which weigh three pounds or more and which are sold on at least 33% of the car line, plus two occupants.

All linear dimensions are in millimeters (inches).

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description	SAE Ref. No.	REGULAR	EXTENDED
Front Compartment			
SgRP front "X" coordinate	L31	3079 (121.2)	3079 (121.2)
Effective head room	H61	1013 (39.9)	1013 (39.9)
Max. effective leg room (accelerator)	L34	1013 (39.9)	1013 (39.9)
SgRP to heel point	H30	363 (14.3)	363 (14.3)
SgRP to heel point	L53	751 (29.6)	751 (29.6)
Back angle (degrees)	L40	22	22
Hip angle (degrees)	L42	96	96
Knee angle (degrees)	L44	113	113
Foot angle (degrees)	L48	87	87
Design H-point front travel	L17	205 (8.1)	205 (8.1)
Normal driving & riding seat track trvl.	L23	151 (5.9)	151 (5.9)
Shoulder room	W3	1518 (59.8)	1518 (59.8)
Hip room	W5	1409 (55.5)	1409 (55.5)
*** Upper body opening to ground	H50	1562 (61.5)	1572 (61.9)
Steering wheel maximum diameter*	W9	395 (15.6)	395 (15.6)
Steering wheel angle (degrees)	H18	28	28
Accel. heel pt. to steer. whl. cntr.	L11	383 (15.1)	383 (15.1)
Accel. heel pt. to steer. whl. cntr.	H17	738 (29.1)	738 (29.1)
Undepressed floor covering thickness	H67	49 (1.9)	49 (1.9)

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

Rear Compartment

SgRP point couple distance	L50	840 (32.4)	907 (35.1)
Effective head room	H63	988 (39.3)	989 (39.3)
Min. effective leg room	L51	952 (36.9)	993 (39.0)
SgRP (second to heel)	H31	348 (13.3)	351 (13.5)
Knee clearance	L48	64 (2.1)	126 (4.5)
Shoulder room	W4	1571 (61.9)	1572 (61.9)
Hip room	W6	1527 (60.4)	1533 (60.4) Single; 1633 (64.3) Dual
*** Upper body opening to ground	H51	1599 (62.4)	1600 (63.0)
Back angle (degrees)	L41	21.1	21.1
Hip angle (degrees)	L43	91	94
Knee angle (degrees)	L45	99	108
Foot angle (degrees)	L47	127	130
Depressed floor covering thickness	H73	18 (0.7)	18 (0.7)

Luggage Compartment

Usable luggage capacity L (cu. ft.)	V1	Not Applicable	Not Applicable
*** Liftover height	H195	610 (24.0)	636 (25.0)

Interior Volumes (EPA Classification)

(NOT APPLICABLE)

Vehicle class		
Interior volume index including trunk/cargo (cu. ft.)**	E1	
Trunk/cargo index (cu. ft.)	V13	

* See page 14.

** See definition page 33.

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

*** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Vehicle Dimensions

See Key Sheets for definitions

Model Code/Description

REGULAR

EXTENDED

Station Wagon/MPV* -Third Seat

SAE
Ref.
No.

	SD1	FWD	FWD
Seat facing direction			FWD
SgRP couple distance	L85	806 (31.7)	868 (34.2)
Shoulder room	W85	1529 (60.1)	1515 (59.6)
Hip room	W86	1228 (48.3)	1228 (48.3)
Effective leg room	L86	864 (34.0)	933 (36.7)
Effective head room	H86	973 (38.8)	985 (38.9)
SgRP to heel point	H87	330 (12.5)	328 (12.5)
Knee clearance	L87	29 (1.6)	77 (3.7)
Back angle (degrees)	L88	22	22
Hip angle (degrees)	L89	85	88
Knee angle (degrees)	L90	85	96
Foot angle (degrees)	L91	119	128

Station Wagon/MPV* - Cargo Space

Cargo length (open front)	L200	Not Applicable	Not Applicable
Cargo length (open second)	L201	Not Applicable	Not Applicable
Cargo length (closed front)	L202	2186 (86.1)	2541 (100.0)
Cargo length (closed second)	L203	1288 (50.7)	1585 (62.4)
Cargo length at belt (front)	L204	1886 (74.6); 1995 (78.5) Max.	2243 (88.3) 2350 (92.5) Max.
Cargo length at belt (second)	L205	1037 (41.4)	1327 (53.1)
Cargo width (wheelhouse)	W201	1228 (48.3)	1228 (48.3)
Rear opening width at floor	W203	1291 (50.8)	1310 (51.6)
Opening width at belt	W204	1305 (51.4)	1282 (50.5)
Min. rear opening width above belt	W205	1092 (43.0)	1092 (43.0)
Cargo height	H201	1164 (45.8)	1146 (45.1)
Rear opening height	H202	1034 (40.7)	1034 (40.7)
Tailgate to ground height	H250	Not Applicable	Not Applicable
Front seat back to load floor height	H197	943 (37.1)	915 (36.0)
Cargo volume index m ³ (ft. ³)	V2	Not Applicable	Not Applicable
Hidden cargo volume index m ³ (ft. ³)	V4	Not Applicable	Not Applicable
Cargo volume index-rear of 2-seat	V10		
Cargo volume index*	V6	3582 (126.6 cu. ft.)	4198 (148.3 cu. ft.) Single 4413 (155.9 cu. ft.) Dual
Cargo width at floor*	W500	1502 (59.1)	1502 (59.1) Single 1579 (62.2) Dual
Maximum cargo height*	H505	1228 (48.3)	1234 (48.6)

Hatchback - Cargo Space

Cargo length at front seatback height	L208	Not Available	Not Available
Cargo length at floor (front)	L209	Not Available	Not Available
Cargo length at second seatback height	L210	Not Available	Not Available
Cargo length at floor (second)	L211	Not Available	Not Available
Front seatback to load floor height	H197	943 (37.1)	915 (36.0)
Second seatback to load floor height	H198	773 (30.4)	787 (31.0)
Cargo volume index m ³ (ft. ³)	V3	Not Applicable	Not Applicable
Hidden cargo volume index m ³ (ft. ³)	V4	Not Applicable	Not Applicable
Cargo volume index - rear of 2-seat	V11	Not Applicable	Not Applicable

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

* MPV - Multipurpose Vehicle

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

METRIC (U.S. Customary)

Model Code/ Description	REGULAR	EXTENDED
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Vehicle Fiducial Marks

Fiducial Mark Number*	Define Coordinate Location		
Front	X	Fiducial mark to vertical zero grid line - front measured horizontally, from the zero grid line to the front fiducial mark located on top of the front seat adjuster mounting bolt.	
	Y	Fiducial mark to centerline of car - front, width measurement made from centerline car to fiducial mark located on top of the front seat adjuster mounting bolt.	
	Z	Fiducial mark to horizontal zero grid line - front, measured vertically from zero grid line to front fiducial mark located on top of the front seat adjuster mounting bolt.	
Rear	X	Fiducial mark to vertical zero grid line - rear, measured horizontally from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)	
	Y	Fiducial mark to centerline of car - rear, width measurement made from centerline of car to fiducial mark located on the rail (compartment pan - longitudinal.)	
	Z	Fiducial mark to horizontal zero grid line - rear, measured vertically from the zero grid line to rear fiducial mark located on the rail (compartment pan - longitudinal.)	
NOTE: Provide 3 of 4 Fiducial Mark Locations			
Front	W21**	568 (22.4)	568 (22.4)
	L54**	2861 (112.6)	2861 (112.6)
	H81**	617 (24.3)	617 (24.3)
	H161***	449 (17.7)	457 (18.0)
	H163***	436 (17.2)	446 (17.6)
Rear	W22**	431.5 (17.0)	431.5 (17.0)
	L55**	5032 (198.1)	5032 (198.1)
	H82**	578 (22.8)	578 (22.8)
	H162***	410 (16.1)	423 (16.7)
	H164***	398 (15.7)	413 (16.3)

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

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

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

		VEHICLE MASS (WEIGHT)				% PASS MASS DISTRIBUTION				
Code	Model	CURB MASS, kg. (lb.)*			Shipping Mass kg (lb)***	ETWC** Code	Pass in Front		Pass in Center*	
		Front	Rear	Total			Front	Rear	Front	Rear
VENTURE (1UM16) LA1, 3400 4-Dr. Minivan, Extended		1038 (2288)	724 (1596)	1762 (3885)	1702 (3752)	Z	58.0	42.0	28.0	72.0
VENTURE (1UN06) LA1, 3400 3-Dr. Minivan, Regular		1015 (2238)	675 (1488)	1690 (3726)	1643 (3622)	Y	55.0	45.0	29.0	71.0
VENTURE (1UN16) LA1, 3400 4-Dr. Minivan, Regular		1027 (2264)	674 (1486)	1701 (3750)	1655 (3649)	Y	55.0	45.0	29.0	71.0
VENTURE CARGO VAN (1UM16) LA1, 3400 4-Dr. Minivan, Extended		1027 (2264)	629 (1386)	1656 (3650)	1596 (3518)	Y	58.0	42.0	N/A	N/A

* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.
 ** ETWC - Equivalent Test Weight Class - basis for U.S. Environmental Protection Agency emission certifications.
 Refer to ETWC code legend below for test weight class.

	* PASS IN THIRD ROW	
	FRONT	REAR
EXTENDED	0.0	100.0
REGULAR	-2.0	102.0
CARGO	N/A	N/A

ETWC LEGEND

A = 1000	I = 2000	Q = 3000	Y = 4000
B = 1125	J = 2125	R = 3125	Z = 4250
C = 1250	K = 2250	S = 3250	AA = 4500
D = 1375	L = 2375	T = 3375	BB = 4750
E = 1500	M = 2500	U = 3500	CC = 5000
F = 1625	N = 2625	V = 3625	DD = 5250
G = 1750	O = 2750	W = 3750	EE = 5500
H = 1875	P = 2875	X = 3875	FF = 5750

*** Shipping Mass (weight) = Curb Weight Less:
41.6 (91.7) (Regular)
55.5 (122.4) (Extended)

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line VENTURE

Model Year 1999 Issued _____

Revised (#) _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS. kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
ABB	Seat Configuration (Rr. Buckets Rows 2/3)	3.0 (6.6)	-0.4 (-0.9)	2.6 (5.7)	
ABD	Seat Config. (Capt. Seats/Bench Rows 2/3)	0 0	0 0	0 0	
AG1	Adjuster Frt. Seat Power 6-Way Driver	0.4 (0.9)	0.4 (0.9)	0.8 (1.8)	
AN2	Integral Child Seat, One	1.0 (2.2)	2.5 (5.5)	3.5 (7.7)	
AN5	Integral Child Seats, Two	1.8 (4.0)	5.7 (12.5)	7.5 (16.5)	
AP9	Convenience Net	0.0 (0.0)	0.2 (0.4)	0.2 (0.4)	
AU0	Remote Entry Lock Control	0.2 (0.4)	0.0 (0.0)	0.2 (0.4)	
A20	Rear Quarter Vent Windows, Power	0.0 (0.0)	0.6 (1.3)	0.6 (1.3)	
A31	Power Windows	1.0 (2.2)	0.8 (1.8)	1.8 (4.0)	
BG9	Floor Covering, Rubber	1.0 (2.2)	1.4 (3.1)	2.4 (5.3)	Req. Cargo Van (Z10)
C34	Frt./Rr Air Conditioner/Heater System	5.0 (11.0)	11.4 (25.1)	16.4 (36.1)	1UM16
DK6	Interior Roof Console Extended	0.4 (0.9)	0.2 (0.4)	0.6 (1.3)	
E58	Power Sliding Door	-0.2 (-0.4)	6.8 (15.0)	6.6 (14.6)	

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

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (#) _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS, kg. (lb.)			Remarks Restrictions, Requirements
		Front	Rear	Total	
G67	Automatic Level Control	1.0 (2.2)	5.6 (12.3)	6.6 (14.6)	
KC4	Cooling System, Engine Oil	1.0 (2.2)	0.0 (0.0)	1.0 (2.2)	
KG7	Generator, 125 Amp	0.9 (2.0)	0.0 (0.0)	0.9 (2.0)	Req. (C34/V08)
K05	Engine Block Heater	0.2 (0.4)	0.0 (0.0)	0.2 (0.4)	
K34	Cruise Control	1.0 (2.2)	0.2 (0.4)	1.2 (2.6)	
NW9	Traction Control	2.0 (4.4)	0.8 (1.8)	2.8 (6.2)	
PH3	Cast Aluminum Wheels	-3.1 (-6.9)	-3.1 (-6.9)	-6.2 (-13.8)	
P42	Self - Sealing Tires	3.0 (6.6)	3.0 (6.6)	6.0 (13.2)	
UA6	Content Theft Deterrent System	0.2 (0.4)	0.0 (0.0)	0.2 (0.4)	
UK6	Rear Seat Radio Controls	0.2 (0.4)	0.4 (0.9)	0.6 (1.3)	
UL0	AM/FM Stereo Cassette Auto Tone	0.8 (1.8)	0.0 (0.0)	0.8 (1.8)	
UM6	AM/FM Stereo Cassette	0.6 (1.3)	0.4 (0.9)	1.0 (2.2)	
UN0	AM/FM Stereo CD	0.8 (1.8)	0.0 (0.0)	0.8 (1.8)	
UX6	Speaker System, Front Dual	1.8 (4.0)	0.2 (0.4)	2.0 (4.4)	Req. Cargo Van (Z10)
UZ5	Speaker System (4) Coaxial	-0.2 (-0.4)	1.0 (2.0)	0.8 (1.8)	
VK3	License Plate Front Mtg. Pkg.	-0.2 (-0.4)	1.0 (2.2)	0.8 (1.8)	
V08	Heavy Duty Radiator	2.8 (6.2)	-0.2 (-0.4)	2.6 (5.7)	Req. Cooling System Eng Oil (KC4)

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

MVMA Specifications
METRIC (U.S. Customary)

Vehicle Line VENTURE
 Model Year 1999 Issued _____ Revised (●) _____

		Optional Equipment Differential Mass (weight)*			
Code	Equipment	MASS. kg. (lb.)			Remarks Restrictions. Requirements
		Front	Rear	Total	
V54	Roof Luggage Carrier	0.6 (1.3)	5.4 (11.9)	6.0 (13.2)	1UN06 / 1UN16
V54	Roof Luggage Carrier	0.6 (1.3)	6.2 (13.7)	6.8 (15.0)	1UM16
V92	Trailer Provisions	-0.6 (-1.3)	2.4 (5.3)	1.8 (4.0)	
XPU	P215/70R15 BW AL2 Tires (Frt.)	3.0 (6.6)	0.0 (0.0)	3.0 (6.6)	
YPU	P215/70R15 BW AL2 Tires (Rr)	0.0 (0.0)	3.0 (6.6)	3.0 (6.6)	
Y91	Luxury Edition Package	3.2 (7.0)	3.2 (7.0)	6.4 (14.1)	

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