

### The best conversion in the industry

- IMS has an unparalleled commitment to vehicle and passenger safety
- IMS maintains the highest standards in engineering and manufacturing excellence
- Sienna Rampvan edges out the competition in headroom, floor space, interior dimensions
- Sienna Rampvan offers both **Infloor** and **Foldout** conversions
- IMS offers many additional conversion features, plus flexible financing
- Vehicle weight before conversion: 4,225 lb.; vehicle weight after conversion: 4,225\* lb. Zero added pounds means better carrying capacity and better fuel economy.

### The best minivan in the industry

#### Larger, more powerful engine

- **Variable Valve Timing with intelligence (VVT-i)** used for the intake camshaft improves fuel economy and engine performance and reduces emissions
- **Crankshaft is forged steel** (like many race engines) for added strength and durability
- **Electronic Throttle Control System with intelligence (ETCS-i)** eliminates all mechanical connections between the throttle pedal and the engine for improved reliability and reduced noise, vibration and harshness
- **Nonmetallic intake manifold** reduces engine

weight and heating of the air/fuel mixture for improved engine performance

- **Acoustic Control Induction System (ACIS-II)** automatically varies the length of the intake runners to improve the engine performance in all rpm ranges

#### 5-speed electronically controlled automatic transmission

- **Wider range of gears** provides better performance and higher fuel economy
- **High-efficiency torque convertor** improves fuel economy

### IMS customer satisfaction and Toyota QDR

- IMS has a 16-year track record of satisfied customers—longest in the industry
- Toyota is known worldwide for its commitment to *Quality, Dependability, and Reliability*, and has been lauded by numerous industry awards

**IMS warranty** protects the Rampvan mobility conversion, includes 3-year/36,000-mile coverage on parts and labor

**Toyota warranty** protects the chassis (except those portions of the body modified by IMS), includes outstanding 5-year/60,000-mile powertrain warranty, 3-year/36,000-mile comprehensive warranty and 5-year/unlimited-mileage rust-through coverage

\* IMS standard conversion with 1 front seat.

## SAFETY FEATURES

### IMS' commitment to safety

IMS was the first mobility van maker to pass the U.S. government's crash test program over ten years ago. The company has continued to lead the industry with its dedication to safety. The Sienna Rampvan represents yet another step forward in mobility vehicle safety.

#### Rampvan safety features

- **Ramp surface** is powder-coated with a high-traction material to prevent accidental slips, even in inclement weather
- **Side safety rails** help make certain that wheelchairs and scooters stay on ramps during entry and exit
- **Emergency release mechanism** ensures that everyone can exit the van in case of power or mechanical failure
- **Bump-and-reverse system** allows both ramp and rear passenger door to reverse upon contacting an obstruction
- **Kneel system** compresses the suspension on the ramp side of the vehicle to provide a safer ramp slope for entry and exit
- **Level-deploying ramps** clear most curbs and sidewalks, expanding options in parking and stopping situations
- **Tie-downs** for wheelchairs and scooters snap quickly and securely into built-in receivers conveniently located throughout the vehicle

### Sienna safety features

#### Brake control system

- **ABS (Anti-lock Brake System)** helps maintain optimum steering control during emergency braking
- **EBD (Electronic Brake-force Distribution)** helps proportion brake force at all four wheels, based on braking conditions
- **Brake assist** provides added braking force as needed in severe braking conditions

#### Other safety features

- Driver airbag with three-stage controlled deployment; front passenger airbag with two-stage controlled deployment
- 3-point seatbelts in all seating positions, with adjustable seatbelt anchors on front- and second-row seats (second-row seating available with Foldout conversion only)
- Front seatbelt pretensioners with force limiters
- Driver and front passenger seatbelt warning system
- Collapsible steering column
- Reinforced steel unitized body with high-tensile-strength steel body panels
- Front and rear crumple zones and side-impact beams for front and sliding doors
- Engine immobilizer
- Battery-saver feature—deactivates personal lights after 30 minutes with lights on

### Conversion specifications

	INFLOOR	FOLDOUT
Door opening height	54"	54 1/4"
Door opening width	31 3/8"	31 3/8"
Int. height at center of van	58 1/4"	59 1/4"
Int. height at driver's position	56 3/4"	57 3/4"
Floor width at driver's position	64"	64"
Floor length behind front seats	56 1/8"	56 1/8"
Overall floor length	84"	84"
Ramp length	52 3/4"	53"
Ramp width (usable surface)	30"	29 3/4"
Ramp angle when kneeled	10°	8 1/2°
Ramp capacity	750 lb.	750 lb.
Ground clearance	5 3/4"	6 1/4"

### Vehicle specifications

Vehicle length	200"
Vehicle width	77 3/8"
Vehicle height	68 7/8"
Vehicle wheelbase	119 5/16"
Engine displacement	3.3 liter V6
Engine horsepower	230 hp
Engine torque	242 pound-foot
Est. fuel economy	19 city/27 hwy mpg
Turning circle diameter	36.8"

### Available colors

natural white, silver shadow pearl, phantom grey pearl, salsa red pearl, desert sand mica, aspen green pearl, stratosphere mica, blue mirage metallic

Specifications are for IMS-converted 2004 Toyota Sienna LE with AX mobility package

### Rampvan standard features

- Electronically operated sliding passenger-side rear door
- Electronically operated **Infloor** or **Foldout** ramp
- **Infloor** floor frame and rear sliding door sills lowered 10 inches, crank-style emergency ramp platform release
- **Foldout** floor frame and rear sliding door sills lowered 10 inches, push-out emergency ramp platform release
- Dealer configurable power door lockout system
- OEM-style multifunction, dash-mounted control switches
- OEM-style interior door-post-mounted control switch
- Magnetic exterior door and ramp entry system
- Powder-coat non-slip surfaced ramp platform
- Emergency side door release
- 3-position strap-type wheelchair tie-downs
- Color-coordinated interior carpeting and accents
- Custom lower body panels
- Interior spare tire carrier and cover
- Removable, transferable seat base (works in either driver or passenger position)
- 3-passenger "fold and forward" 60/40 split rear bench seat (exclusive to Sienna Rampvan) significantly increases rear storage capacity

### Rampvan options

- Kneel system with emergency release
- Remote entry system
- Keylock entry system
- Electronic Vehicle Entry (EVE) system with coded entry fob
- Key fob wrist strap
- Additional removable front seat base
- Additional OEM-style seat belt receptacle
- Non-skid flooring (instead of carpet) in lowered floor area
- Quad command center seat(s) (available on Rampvan Foldout only)

### Sienna mechanical/performance

- **Engine** 3.3-liter 24-valve dual overhead cam V6 with variable valve timing with intelligence
- **Ignition** electronic, with Toyota Direct Ignition
- **Transmission** 5-speed electronically controlled automatic overdrive with intelligence
- **Drivetrain** front engine, front-wheel drive
- **Body** unitized body with anti-vibration sub-frame
- **Suspension** MacPherson strut front suspension with gas-filled shock absorbers and torsion beam rear suspension with heavy-duty coil springs and gas-filled shock absorbers, and front and rear stabilizer bars
- **Steering** variable-assist power rack-and-pinion, with turning radius of 36.8 feet.
- **Brakes** power-assisted ventilated front disc, rear drum with ABS; foot-pedal parking brake

### Sienna exterior

- Color-keyed bumpers, door handles, body side moldings, and rear license plate garnish
- 16-inch alloy wheels
- Aerodynamic multi-reflector auto-off headlamps
- Power heated outside mirrors
- Dual sliding doors with power windows
- Power right-side sliding door and back door
- High Solar Energy-Absorbing (HSEA) glass on windshield and front windows
- Rear bumper protector
- Remote keyless entry with confirmation tone
- Washer-linked variable intermittent front and intermittent rear wipers
- Heavy-duty rear window defogger with timer
- Roof rack

### Sienna interior

- Chrome-accented transmission shift plate
- 60/40 split fold-and-forward third-row seating
- Fabric interior with black lacquer-style trim
- Cruise control and Trip Computer/HomeLink
- Tilt and telescopic steering wheel
- 8-way power driver's seat
- Power front and sliding door windows with retained-power feature and driver's auto up/down with "jam protection"
- Rear privacy glass with power-operated rear quarter windows
- Day/night rearview mirror
- Overhead console with conversation mirror

- Driver and front passenger sun visors with dual illuminated visor vanity mirrors
- Defroster-linked CFC-free front/rear A/C with separate rear control panel and air filter
- Deluxe 3-in-1 AM/FM cassette/CD with six speakers, rear-seat audio, and mast antenna
- Steering wheel-integrated audio controls
- Illuminated entry includes front and rear personal lights, cargo area light and courtesy lights for front and sliding doors

### Other amenities

Door-mounted armrest storage bin; cassette/CD bin; coin pocket and sunglasses holder; garage door opener storage bin; front passenger-seat under-seat storage bin; folding tray table between front seats; upper glove box and lockable lower glove box; automatic door locks; electric soft-touch rear door release; gauges with light blue lighting; LCD odometer and twin tripmeter; digital quartz clock; multiple 12V power outlets, cup and bottle holders, assist grips, coat hooks, and map pockets

### Optional accessories

Bright silver 5-spoke 16-inch alloy wheels; wheel locks; front-end mask; hood protector; cargo net; RS3200 Plus security system; simulated burlwood dash applique; gold emblem package; auto-dimming rear-view mirror; first aid kit, wireless headphones; ashtray kit

Information correct as of 5/1/2003



## 2004 Sienna Rampvan

### Pocket Key Card

Your quick reference guide to the Sienna Rampvan

# IMS

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