



TOYOTA



4Runner

Product Source

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Model Line-Up



New for 1998

All Models

- New 4-spoke steering wheel
- Coat hooks now added to all rear seat assist grips
- New dial type heat/AC controls
- New rear cargo area auxiliary power outlet

4-Cylinder Models

- Audio system {EX} is now standard
- New audio option {EV}

SR5 Models

- Optional passenger-side illuminated visor vanity mirror with cover
- New audio options {EV} and {DV}

Limited Models

- Standard color-keyed 4-spoke steering wheel
- Standard passenger-side illuminated visor vanity mirror with cover
- New standard audio system {DV}

Body Styles and Trim Levels

Body Style	Trim Level	Trans.	Displacement	Cyl.	bhp	Model #
4-Door 2WD	SR5 Limited	5M	2.7 liter	4	150	8641
		4ECT	2.7 liter	4	150	8640
		4ECT	3.4 liter	6	183	8642
		4ECT	3.4 liter	6	183	8648
4-Door 4WD	SR5 SR5 Limited	5M	2.7 liter	4	150	8657
		4ECT	2.7 liter	4	150	8658
		5M	3.4 liter	6	183	8665
		4ECT	3.4 liter	6	183	8664
		4ECT	3.4 liter	6	183	8668
		4ECT	3.4 liter	6	183	8668

Standard Features

4Runner 2WD

Mechanical

- 2.7-liter 4-cylinder DOHC* 16-valve EFI engine
- Balance shafts
- Engine oil cooler
- Toyota Direct Ignition (distributorless)
- Rear-wheel drive
- 5-speed manual overdrive transmission
- Independent coil spring double-wishbone front suspension with stabilizer bar
- Solid rear axle with 4-link coil spring rear suspension with stabilizer bar
- Gas-filled shock absorbers
- Power-assisted rack-and-pinion steering
- Power-assisted ventilated 12" front disc/rear drum brakes
- Rear brake Load-Sensing Proportioning and Bypass Valve (LSP & BV)
- P225/75R15 mud-and-snow steel belted radial tires
- Full-size spare tire
- Protective skid plates: front suspension, steering box and fuel tank



Exterior

- Aero-style halogen headlamps with lights-on warning chime
- Dark argent painted front and rear bumpers and grille
- Tinted safety glass
- Dual black outside mirrors
- Black-out windshield moldings
- Chip-resistant rocker panel moldings
- Styled-steel wheels (15")
- Front¹ and rear mudguards
- Rear Center High-Mount Stop Lamp (CHMSL)
- One-piece lift-up rear door with power window
- Front tow hook

* Marketed as Twin-Cam

** See "Safety" section beginning on page 10 for additional information

Interior

- 4-way adjustable driver bucket seat (slide, recline, seat cushion height and head restraint height)
- 3-way adjustable front passenger seat (slide, recline and head restraint height)
- 50/50 split-folding rear seat with removable head restraints and fold-up bottom cushions
- Full door trim with armrests
- 4-spoke black urethane steering wheel and emergency brake handle
- Cloth headliner and dual cloth sun visors with passenger-side vanity mirror
- Day/night rearview mirror
- Lockable glove box
- 2-compartment center console box with rear dual cup holders
- Front dual cup holders
- Entry/exit assist grips (5) (Coat hooks on rear)
- Driver-side footrest with cutpile carpeting
- Color-keyed instrument panel
 - Instrumentation: electronic analog speedometer, tripmeter, odometer, tachometer, oil pressure, voltmeter, coolant temperature and fuel level gauges
 - Warning lights: brakes, battery, oil, check engine, tailgate open, door ajar and low fuel level
 - Dial type heat/AC controls
 - Intermittent windshield wipers with mist control
 - Remote hood and fuel lid releases
 - Cigarette lighter
 - Rear cargo area auxiliary power outlet
 - Power rear window
 - Deluxe AM/FM ETR/Cassette with 4-speakers and spring back antenna

Safety**

- Driver and front passenger air bags (SRS)
- Seatbelts
 - Driver: 3-point with ELR²
 - Outboard passengers: 3-point with ELR/ALR²
 - Center passenger: 2-point lap belt
- Energy-absorbing steering wheel and column
- Child-protector rear door locks
- Side-door beams

1 Front mudguards not included when equipped with optional running boards

2 With adjustable shoulder belt anchor for front occupants only

S tandard Features

4Runner 4WD **Differences vs 4Runner 2WD**

Mechanical

- Part-time 4-wheel drive
- 4WDemand
- 2-speed transfer case with indicator light
- Transfer case skid plate

4Runner 2WD SR5 **Differences vs 4Runner 2WD**

Mechanical

- 3.4-liter V6 DOHC**
24-valve EFI engine
- 4-speed electronically controlled automatic overdrive transmission (4ECT)
- Anti-lock Brake System (ABS)
- Rear Brake Proportioning and Bypass Valve (no load sensing)



Exterior

- Chrome front/rear bumpers and grille
- Privacy glass
- Dual color-keyed power mirrors
- Color-keyed door handles
- Rear emblem (rear door): SR5

Interior

- Power door locks
- Tilt steering wheel
- Variable intermittent windshield wipers with mist control
- Intermittent rear wiper
- Rear-window defogger
- Digital quartz clock
- Front map lights
- Lighting Package: Ignition key ring, ash tray and glove box light

4Runner 4WD SR5 **Differences vs 2WD SR5**

Mechanical

- Part-time 4-wheel drive
- 4WDemand
- 2-speed transfer case with indicator light
- Transfer case skid plate
- 5-speed manual overdrive transmission

** Marketed as Four-Cam

Standard Features

4Runner 2WD Limited

Differences vs 2WD SR5

Mechanical

- 4.100 rear differential ratio
- 13" disc and drum brakes
- P265/70R16 mud-and-snow steel belted radial tires

Exterior

- Color-keyed fender flares, cladding and running boards
- Aluminum alloy wheels (16")
- Rear and side emblems (rear door and C-pillars): Limited

Interior

- 6-way adjustable power driver sport bucket seat with leather trim
- Leather-trimmed steering wheel, transfer case, shift knob and door trim
- Color-keyed 4-spoke urethane steering wheel
- Wood dash
- Illuminated passenger-side visor vanity mirror with cover
- Carpeted floor mats, 4-piece
- Tonneau cover
- Air conditioning (CFC-free)
- Power windows
- Cruise control
- Power antenna with diversity system
- Premium AM/FM ETR/CD with 6 speakers

4Runner 4WD Limited

Differences vs 2WD Limited

Mechanical

- One-Touch Hi-4 Selector switch
- Part-time 4-wheel drive
- 4WDemand
- 2-speed transfer case with indicator light
- Transfer case skid plate
- All-Weather Guard Equipment Package



Model shown may have optional equipment.

Features and Benefits

Performance



KEY FEATURES

BENEFITS

2.7-L 4-Cylinder DOHC* 16-Valve Engine¹

This base engine develops 150 hp and 177 lb-ft of torque.

Powerful 3.4-L V6 DOHC** 24-Valve Engine²

This SR5 and Limited engine is rated at 183 HP and 217 lb-ft of torque.

4-Speed ECT Automatic Transmission³

Provides better driveability and less gear hunting than conventional automatics for a smoother, more enjoyable ride.

4WDemand "Shift on the Move"

For extra traction on demand, drivers can shift into 4WD High range while driving up to 50 mph.

Double-Wishbone Front Suspension

Provides excellent on-the-road ride and comfort, while enhancing off-road performance.

Drivetrain

The 2.7-L 4-Cylinder DOHC* 16-Valve EFI Engine¹ Provides Excellent Power and Torque

This engine is rated at **150 horsepower at 4800 rpm. Its torque is rated at 177 lb-ft at 4000 rpm.** Engine features include electronic fuel injection, Dual Overhead Cams (DOHC), balance shafts (to help increase smoothness), and independent long intake runners. A larger air cleaner (10.2L) and intake resonator help boost midrange torque. This **4-cylinder engine provides as much horsepower as the last generation's V6.**

The 3.4-L V6 DOHC** 24-Valve EFI Engine² Provides Top Power and Torque

This engine achieves a powerful **183 horsepower at 4800 rpm and a strong 217 lb-ft of torque at a low 3600 rpm.** Engine features include electronic fuel injection, dual overhead cams (DOHC), Toyota Direct Ignition (distributorless), and independent long intake runners. A large air cleaner (9.4-L) and dual intake resonator help boost midrange torque.



Dual Overhead Cam (DOHC) and 4-Valves per Cylinder

This arrangement of two intake and two exhaust valves per cylinder allows more fuel/air mixture into the cylinder for more efficient engine "breathing" and combustion. **This produces greater horsepower than single cam engines and enhances fuel economy.** Toyota's DOHC eliminates moving parts such as rocker arms and push rods to help make the engine smoother, quieter and more efficient.

Toyota Direct Ignition (Distributorless)

This standard feature eliminates all moving parts (including the distributor cap and rotor) by placing a compact coil directly on three of the six spark plugs. This minimizes misfiring and loss of engine power. **The result is improved performance, greater durability/reliability and reduced maintenance.**

The 4-Speed Electronically Controlled Automatic Transmission (4ECT)³

Gear selection is controlled by a sophisticated computer that analyzes driving conditions (speed, load, etc.) and driver actions (throttle position) before selecting a gear. **The result is smoother shifts and improved performance and fuel economy.** Following are two features of the transmission:

- **Overdrive 4th gear** reduces engine rpm at high-way speeds which helps provide quieter driving and increased fuel economy.
- The **Electronic Control Unit** momentarily retards ignition timing and electronically disengages the transmission during gear changes. This helps the transmission provide smoother shifts and better performance.

2WD and 4WD Configurations

The 4Runner will meet almost any customer's sport-utility needs with the availability of both **2WD and part-time 4WD configurations.** Both operate in rear-wheel drive until models equipped with 4-wheel drive shift into 4-wheel mode.

4WDemand "Shift on the Move"

This part-time 4-wheel drive system has a **two-speed transfer case.** When slippery situations are encountered, the driver can shift into 4WD while moving at road speeds of up to 50 mph. Fuel-efficient 2WD (rear-wheel drive) is the **normal drive mode.**

* Marketed as Twin-Cam

** Marketed as Four-Cam

1 Standard with 4-cylinder models

2 Standard with SR5 and Limited models

3 Standard on 2WD SR5 and both Limited models, optional on all others

Features and Benefits



One-Touch Hi-4 Selector (std. on the 4x4 Limited)

For great convenience, 4WD High range can be engaged by pressing a button on the transfer selector knob. If 4WD Low is desired, then the transfer level must be shifted.

Optional Locking Rear Differential

While driving in "L4" at 5 mph or less, drivers can lock the rear differential so both rear wheels turn at exactly the same rate of speed, helping to enhance traction in slippery situations. This is accomplished by engaging a switch on the instrument panel.

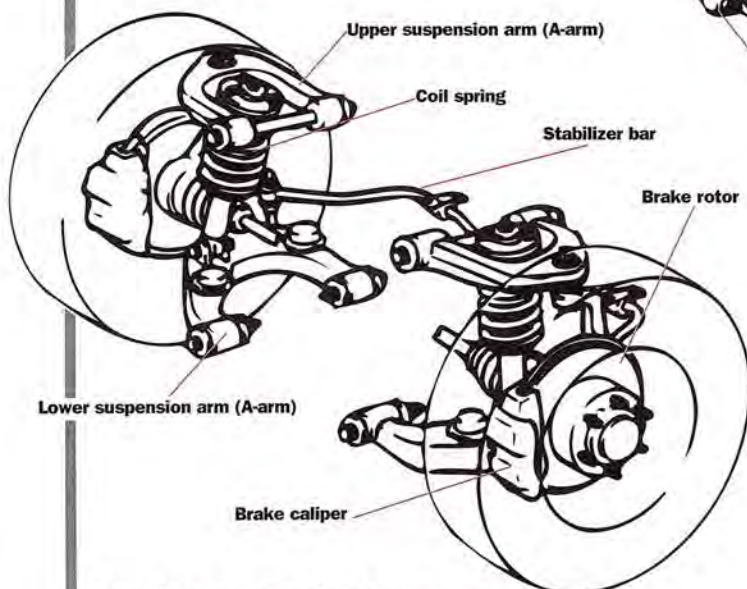
Chassis

Double-Wishbone Front Suspension

4Runner's double-wishbone front suspension features coil springs that allow greater wheel travel, helping enhance off-road performance. The lower control arm uses a closed cross-sectional structure that helps ensure high strength while reducing unsprung weight. A wide tread helps provide better steering and ride comfort around town or on the highway.

4-Link Coil Spring Rear Suspension

4Runner's wide tread width helps provide ride comfort. Coil springs help deliver a more comfortable ride as well as good load capabilities. Models with P265-sized tires utilize a bound spring shock absorber similar to the Lexus LS400 to help manage body roll. Generous rear suspension travel helps enhance off-road performance.



Double-wishbone front suspension

Wheels and Tires

The 1998 4Runner features stylish wheels and tires. The optional wheel/tire upgrade is P265/70R16. (Standard on the Limited Grade model.) Sporty 15" and 16" alloy wheels are available to enhance appearance and further reduce unsprung weight.



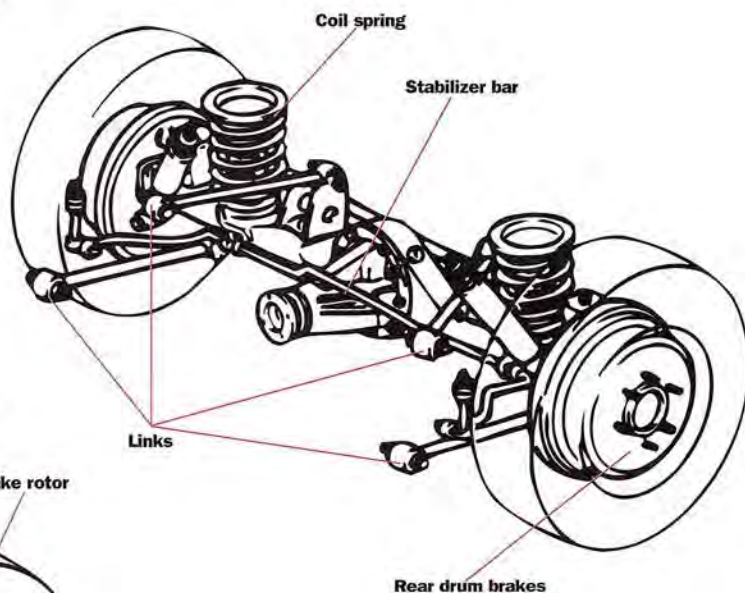
Sport alloy wheel

Rack-and-Pinion Steering

A power-assisted rack-and-pinion steering system provides the driver with excellent road feel and a precise steering response.

Standard Towing Package

The 4Runner SR5 and Limited models have a 5,000 lb. maximum trailer towing capacity. Maximum towing for 4-cylinder models is 3,500 lbs. Towing requires additional equipment. Consult the 1998 Toyota Trailer Towing Guide for details and GCWR limits.



4-link coil spring rear suspension

Features and Benefits

Comfort and Convenience



KEY FEATURES

BENEFITS

Standard 4-Way Adjustable Driver Seat

Enhances comfort and holding performance.

Limited Front Seats¹

Standard on the Limited models is a 6-way adjustable power driver sport seat.

Rear Door

Lifts up and out of the way for easy cargo loading. Includes a power window.

Excellent Cargo Capacity

79.7 cu. ft. with the rear seats folded down.

Premium 6-Speaker AM/FM ETR/CD²

Provides great sound in the passenger cabin AND comes with a diversity-glass antenna. Rear speakers are located in the rear doors.

Front and Rear Dual Cup Holders

20 oz. cup capacity. Rear holders slide out from the center console.

Rear Door

The **one-piece lift-up rear door comes complete with a power rear window**, and both the unlocking of the rear door and the power window operation can be performed by simply turning the key in the rear locking mechanism. The window can also be operated by pushing a button in the center console.



Standard 4-Way and 6-Way Adjustable Driver Seat

4Runner seats are **designed for comfort and holding performance**. The raised hip points of the front seats provide leg comfort and optimum driver positioning. **Also available are 6-way adjustable power driver sport bucket seats.**¹

Adjustable Shoulder Belt Anchors

The 4Runner's front shoulder belts can be adjusted to **"custom-fit" the belts to the**

size of the occupants through a range of five settings. This allows individual drivers and passengers to position where the belt crosses the shoulder and chest to enhance occupant comfort.

Excellent Cargo Capacity

Cargo loading and unloading is easier when the 50/50 split folding rear seat is folded down. **The 4Runner can be configured to provide up to 79.7 cubic feet of cargo space.**

Standard 50/50 Split-Folding Rear Seat

The rear seats **fold down to increase the size of the cargo area**, or one seat can be folded while the other remains up to **accommodate passengers**. The back of the seats include a molded board covering to help protect the interior from damage by cargo.



¹ Standard on Limited, optional on SR5 models (w/out the power)

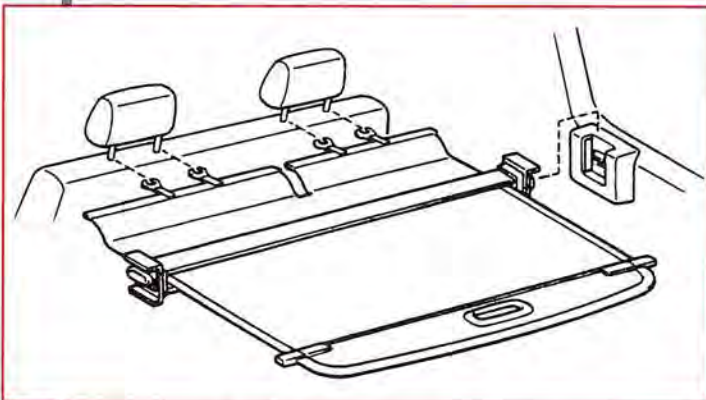
² Not available on 4-cyl. models; optional on SR5; standard on Limited

Features and Benefits



Tonneau Cover³

The tonneau cover is used to **conceal cargo**. When the cover is pulled out, it keeps items out of the sun and provides extra security from theft.



Premium 6-Speaker AM/FM ETR/CD Sound System²

This system provides **excellent sound reproduction and high fidelity**. It also includes a diversity-glass antenna that car washes and vandals can't easily break and that enhances radio reception for a cleaner and stronger sound. The rear speakers are located in the rear doors and the tweeters in the 6-speaker system are mounted at the door-mirror attachment area for improved high-end sound distribution. **A Cassette/CD system is optional on SR5 and Limited.**



Rear dual cup holder

Front and Rear Dual Cup Holders

4Runner features both front and rear **dual 20 oz. cup holders** as standard in all models. The rear cup holders are located in the back of the large center console; a compartment which can hold up to eight CD's or eight cassettes.

Parking Brake

The parking brake is located **between the front seats for easy use**.

Air Conditioning

The optional air conditioning includes a **"Defroster Mode Switch"** to enhance window clearing performance. The control graphics are easy to read and the movement of the heat lever provides precise control.

Standard Comfort and Convenience Features on 4Runner:

- **Cloth seats** for all-weather comfort.
- **Power rear window** for easy operation.
- **Deluxe AM/FM ETR Cassette⁴** with 4 speakers for entertainment.
- **Tinted glass and privacy glass** to help keep the interior cool.
- **Seatbelt storage pockets** in the rear seats hold seatbelt buckles.
- **Passenger-side vanity mirror**. (Illuminated optional on SR5, standard on Limited)
- **Cut-pile carpeting** for soft feel and an upscale look.
- **Remote fuel lid release** allows a flush fuel door for a sleek appearance and keeps the fuel door locked until opened from the inside.
- **New additional rear cargo power outlet** for added convenience.
- **Entry/exit assist grips** (5) with coat hooks added in the rear.
- **Dial type heat/AC controls** for easier operation.

Noise and Vibration Reduction

The 4Runner has many features that help reduce noise and vibration in the passenger cabin.

- **Large capacity air cleaner** helps reduce intake noise.
- **Large capacity muffler** helps quiet exhaust noise.
- The **cross sections are reinforced** for greater frame rigidity, helping to reduce the chance of squeaks and rattles building up over time.
- **Flush-mounted moldings** help reduce wind noise.
- **Extra thick carpet** on the wheel wells helps reduce road noise.
- **Engine compartment wall insulator** helps reduce intruding engine noise.

2 Not available on 4-cylinder models; optional on SR5; standard on Limited

3 Standard on Limited, optional on all 4-cylinder and SR5 models

4 Standard on 4-cylinder and SR5 models; upgraded sound system for Limited models

Features and Benefits

Styling



KEY FEATURES

Aerodynamic
Front End Design

Wraparound
Bumpers

Limited Styling

Wood Dash

BENEFITS

Grille has integrated unique headlamps with a bumper and valance panel that blends well with the body.

Help protect the painted areas on the fenders and provide a sleek appearance.

Features include unique color-keyed fender flares, cladding and running boards.

Standard on the Limited, the dash provides a luxurious appearance.



Unique Side Appearance

The **integrated mudguards** help protect the lower body panels from minor debris thrown up by the tires. The **flared fenders** provide the 4Runner with a rugged appearance and enhance the look of the wheels and tires. There is a **smart character line below the windows** and a **stylish center pillar** that exhibits urbane sophistication.

Exterior

Sophistication and Sporty Toughness

The 4Runner's exterior is designed to appear **progressive, urbane and sporty-tough**. Its overall length is 178.7 inches and a low step-in height helps ease entry and exit.

Aerodynamic Front End

The **contemporary front grille** has integrated **unique headlamps** and a **bumper and valance panel** that **blend in well with the body**. The overall front appearance is sophisticated and tough.



Wraparound Bumpers

The 4Runner's bumpers wrap around from the front and rear into the fenders. This **provides an integrated look** and **helps protect the painted surfaces of the fenders**.



Limited Grade

The Limited model **offers unique color-keyed fender flares, cladding and running boards** as well as other features that add to its upscale image.

Features and Benefits



Interior

Door Trim

The molded door trim **provides a contemporary appearance.** Additionally, map pockets are incorporated into the rear door panels which also accommodate the rear stereo speakers.



Wood Dash

A beautiful simulated wood dash, standard on the Limited model and available on all other models, **provides a luxurious appearance.**

Instrument Panel Ergonomics and Appearance

4Runner's gauges are arranged for great readability. (A door ajar warning light is included.) The ergonomics **provide an inviting environment for drivers** with vehicle controls positioned close to the driver to **help reduce fatigue.**



Rear Center Console Box

The rear console box extends back from the front console and between the front seats. **The console box holds up to eight CDs or eight cassette tapes.** There are also dual rear cup holders within reach of all rear passengers.



Features and Benefits

Quality/Dependability/Reliability and Value



KEY FEATURES

Rust Inhibitor Process

Plastic Valance Panel and Cowl Top

Ladder Frame

One-Piece Doors

BENEFITS

Multi-step process that helps the body panels to resist rust and maintain their like-new appearance.

Eliminates unsightly paint peeling and rusting.

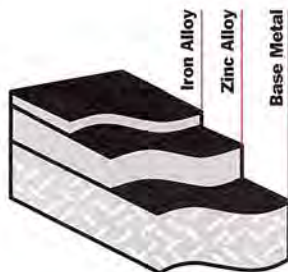
Front dual suspension cross members increase rigidity to help provide better control during cornering and braking.

Inner and outer door panels formed as a single unit to help improve appearance and rust resistance.

Dependability

Each Vehicle Goes Through An Extensive Rust Inhibitor Process

- Each 4Runner starts with **rust-resistant Galvanealed and Excelite II steels** coated with a zinc and iron alloy. These are used for most inner and outer body panels. If a small scratch occurs, the Excelite II simply turns white and **helps protect the metal from rusting.**
- The **body panels are fully dipped in a phosphate bath** to help make sure that even the **most inaccessible areas resist rust.**
- Polyvinyl chloride (PVC) coating** helps protect the wheel wells and other areas of the body against chips that lead to rust.
- Anti-chip primer paint** is applied to the front edge of the hood and fenders to **help protect these areas from stone chips and other minor debris** thrown from the tires.



Rust-resistant body panels

Key Engine Parts

Stainless steel exhaust gas recirculating piping (EGR) helps ensure reliability. Internally, aluminum alloy crankshaft bearings and carbon steel connecting rods that can withstand high speeds and pressure provide rugged durability. A low-noise single roller cam chain is composed of wear resistant materials for long life.

Steel Skid Plates

Front suspension, steering box, transfer case (4WD only), and fuel tank skid plates are **provided to help offer maximum off-road driving protection.** Additionally, underbody protrusions are minimized to counteract the lowered floor height.

Body Construction

High-strength, anti-corrosion steel is used in the hood, front fenders and other key structural areas to help improve rigidity and resist corrosion.

Plastic Valance Panel and Cowl Top

This body piece just below the windshield is composed of resins which **eliminate unsightly paint peeling and rusting.**

Ladder Frame

All 4Runners feature a strong and rigid ladder frame. The side rails and cross members are made of high-strength steel, **to help enhance durability.** Front dual suspension cross members help enhance lateral rigidity during cornering and longitudinal rigidity during braking.

Reliability

One-Piece Doors

Inner and outer door panels are formed as a single, integrated unit to **help improve appearance, rust resistance and strength.**

Warranty

Toyota stands behind every 4Runner with a comprehensive limited warranty:

- 3 years or 36,000 miles (whichever comes first) of **basic coverage.**
- 5 years or 60,000 miles (whichever comes first) of **powertrain coverage.**
- 5 years unlimited mileage of **corrosion coverage.**

Toyota dealers have the complete details on warranty coverage.

Features and Benefits



Value

IntelliChoice Value Accolades¹

IntelliChoice is an independent company that publishes The Complete Small Truck Cost Guide. This publication, available in many libraries, reports, analyzes and rates cost of ownership data. They provided the following assessments of the 4Runner:



**4RUNNER BASE 2WD/4WD LIMITED:
A BEST OVERALL VALUE among
intermediate sport utility vehicles.**

**4RUNNER 4WD LIMITED:
THE BEST SPORT UTILITY VALUE
among sport utility vehicles costing
over \$25,000.**

Projected Repair Costs

- Rating: Excellent
- For all 4Runners, over 5 years

Powertrain Warranty

- Rating: Excellent
- For all 4Runners, over 5 years

Projected Depreciation Costs

- Rating: Excellent
- For all 4Runners, over 5 years

Brake Service

- Rating: Better than Average
- For all 4Runners, over 5 years

Projected Ownership Cost Savings vs Average

• 4Runner 2WD	\$1,980*
• 4Runner 2WD SR5	\$1,182*
• 4Runner 2WD Limited	\$1,941*
• 4Runner 4WD	\$1,736*
• 4Runner 4WD SR5	\$1,622*
• 4Runner 4WD Limited	\$2,516*

* Approximate savings based on annual mileage of 14,000 miles for 5-year ownership period.

¹ From the 1997 edition of The Complete Small Truck Cost Guide™, Copyright 1997 IntelliChoice, Inc.®, Campbell, CA.
Internet Address <http://www.intellichoice.com>

Air Bag, Dual (SRS)

In vehicles equipped with an air bag Supplemental Restraint System (SRS), the air bag inflates with nitrogen gas within milliseconds to help limit the motion of the driver's head and upper torso to help prevent injury in a severe frontal impact. This system supplements, but does not replace, the 3-point seatbelt system, which provides primary protection. The air bag is not intended to operate during an impact other than a severe frontal impact, in which case the 3-point system is the only personal protection. In a severe frontal impact, the center main sensor senses the impact and activates the air bag system. The air bag, which emerges from the steering wheel pad, then deflates within a few tenths of a second.

The front passenger air bag is usually incorporated into the top part of the passenger-side instrument panel. This air bag emerges from an air bag module that can usually be replaced without replacing the entire instrument panel. This bag is slightly larger than the driver-side air bag and is also designed to help limit the motion of the front passenger's head and torso in case of a severe frontal impact. Do not place rearward-facing child seats in the front passenger seat. Serious injury or death can occur from the deploying air bag. Place children securely in the rear seat.

Assist Grips

Handles mounted on the inside of a vehicle. They provide a convenient place to grasp and obtain leverage for entering and exiting the vehicle.

Automatic Transmission Shift Lock

This safety device requires that the ignition is on and the brake pedal is depressed before the transmission lever can be moved out of "Park." The shift lock helps prevent a vehicle from being put into "Drive" or "Reverse" and accelerating inadvertently.

Axle Ratio

The number of times the driveshaft rotates to turn the axle shaft one rotation. For example, if the driveshaft gear has 10 teeth and the axle shaft gear has 30 teeth, the driveshaft gear would have to turn three times to turn the axle shaft gear once. This translates to a ratio of three-to-one (3:1).

Balance Shafts

Small weighted shafts—similar to a camshaft inside the engine block. Two balance shafts rotate in the direction counter to that of the crankshaft rotation to cancel out engine vibration. They are most common to 4-cylinder engines to help reduce noise, vibration and harshness (NVH) inherent in this engine design.

CFC-Free Air Conditioning

A vehicle air conditioning system that uses R-134a refrigerant instead of CFC-based chemicals (usually known as freon).

Coil Spring

A thick steel wire that has been coiled and heat-treated to form a very strong spring. Commonly used in car and light truck suspension systems, coil springs are space efficient and can vary in stiffness, even within the same spring (such as not stiff at the top and stiff at the bottom). The coil springs on a given vehicle largely define how that car or truck's ride and handling will feel.

Differential

A gear assembly that allows one driven wheel to turn at a different speed from the wheel on the other end of the axle. This is necessary since an outside wheel has further to travel than an inside wheel when turning a corner.

Double Overhead Cams (DOHC)

An engine configuration with two overhead camshafts per row of cylinders. One camshaft operates the intake valves and the other operates the exhaust valves. This is the usual arrangement in engines with multi-valve cylinder heads. Compared to single overhead cam designs, the direct drive used in all Toyota DOHC engines requires fewer moving parts. It eliminates the rocker arms needed to activate the valves, thus improving efficiency and reducing vibration and noise. Compared to push-rod overhead valve (OHV) engines, which use an arrangement by which the camshaft is located in the engine block and opens the valves via long push-rods and rocker arms, it eliminates the need for both of these components. With fewer moving parts, there is less inertia. So, an overhead cam engine can run at a higher speed and produce more power than a comparably sized push-rod engine.

Double Wishbone Suspension

This is an independent suspension system in which each wheel is located on a "knuckle" that is connected by ball joints to upper and lower A-arms that are unequal in length. This system minimizes changes in track and camber during cornering and when driving over bumps.

ELR/ALR 3-Point Seatbelts

The ELR (Emergency Locking Retractor) allows the driver seatbelt to extend and retract with occupant movement, yet locks the belt during a sudden stop or upon impact. The ALR (Automatic Locking Retractor) makes it possible to secure a child seat without using a seatbelt locking clip. To activate the ALR retractor, pull the shoulder belt all the way out, then allow it to retract to the desired length. Press down firmly on the child seat as the belt retracts to buckle the child seat securely in place. The ALR retractor is deactivated by unbuckling the belt and allowing it to retract fully. Do not place rearward-facing child seats in the front passenger seat. Serious injury or death can occur from the deploying air bag. Place children securely in the rear seat. See the Owner's Manual for child seat usage.

4WDemand

Allows the driver to go from 2-wheel drive to 4-wheel drive and back while the vehicle is in motion, automatically locking the front hubs. The driver needs only to move a lever to engage the 4-wheel drive; it is not necessary to stop the vehicle. This system is available on certain 4-wheel drive Toyota Trucks and 4Runner models.

Gross Combined Weight (GCW)

The total weight of a vehicle, including all its contents, plus the weight of a trailer and its entire contents. The GCW should not be allowed to exceed the Gross Combined Weight Rating (GCWR).

Gross Combined Weight Rating (GCWR)

The maximum allowable weight as specified by the manufacturer. Exceeding this limit compromises safety and may be against state law.

Gross Vehicle Weight (GVW)

The sum of curb weight and payload. Curb weight is the weight of a vehicle with all fluids, less driver, ready to be operated. Payload is the load added to a vehicle including the driver, passengers and any other equipment or cargo.

Gross Vehicle Weight Rating (GVWR)

The maximum allowable loaded vehicle weight. It includes the vehicle and its equipment, all occupants, fluids, and cargo.

Ground Clearance

The distance between the lowest point on the vehicle and level ground.

Halogen Headlamps

Headlamps with special bulbs that provide brighter illumination than conventional bulbs, yet last longer and use less energy. They get their name from the halogen gas inside the bulb.

Horsepower

The measurement of the ability to do work over time. One horsepower is the amount of energy needed to raise 33,000 pounds a distance of one foot in one minute. Simply put, it is the engine performance rating that helps an engine maintain and maximize vehicle speeds.

Load-Sensing Proportioning and Bypass Valve (LSP & BV)

Mounted to the frame and rear suspension arm/rear axle, the LSP & BV senses the weight distribution of a vehicle and automatically varies the amount of hydraulic pressure to the rear brakes based on the load in the vehicle. This helps reduce rear-wheel lock-up with either light or heavy loads to maintain stopping control.

Locking Rear Differential

When the transfer case is engaged in "L4," turning on the rear differential lock switch in the instrument panel "locks" the rear differential so both wheels turn at the same rate of speed. This helps provide additional traction in inclement on- and off-road conditions.

One Touch Hi-4 Selector

Standard on 4Runner Limited models, this feature lets the driver select 2WD (H2) and 4WD (H4) by operating a switch on the side of the transfer shift lever.

Payload Rating

The maximum allowable weight, including occupants, equipment and cargo, a truck can transport. It is always determined by the manufacturer. Payload equals GVWR minus curb weight. If one adds accessories or components (such as automatic transmission or a larger engine), the payload rating will decrease.

Privacy Glass

A deeply tinted rear and side window glass that helps keep the sun's rays out of the passenger cabin and provides an added measure of occupant privacy.

Rack-and-Pinion Steering

Consists of a round pinion gear attached to the steering shaft, and a flat bar with gear teeth cut into it called the rack. The rack and pinion mesh at a point between the front wheels. As the steering wheel is turned, the shaft from the steering column turns the pinion gear, forcing the rack either right or left along a horizontal plane. The rack is linked to the wheels via tie rods, which push and pull the wheels to steer them. In general, rack-and-pinion steering is precise and responsive.

Safety Glass (Laminated)

Used in 4Runner windshields, this glass consists of two panes bonded together with a sheet of plastic sandwiched in between. This keeps the glass together during an impact, reducing injuries from sharp edges.

Safety Glass (Tempered)

This heat-treated glass used in side and rear windows breaks into small blunt pieces when broken.

Safing Sensor

A sensor in a vehicle's air bag system designed to prevent inadvertent deployment.

Side-Door Beams

Required in all passenger cars by the Federal Government, these are steel beams inside the door that help deflect certain types of side impacts. They are designed to help provide some measure of protection for passengers in certain types of side collisions.

Steel Skid Plates

Steel plates mounted under a vehicle's body for off-road protection of key components from rocks and ruts. All 4Runners have skid plates that shield the front suspension, fuel tank and steering box. In addition, 4x4 models have transfer case skid plates.

Torque

A force in a twisting motion. In an engine, torque is the twisting motion at the crankshaft measured in foot-pounds (lb-ft). One foot-pound is the force of one pound acting at right angles at the end of an arm one foot long. Simply stated, torque is the engine power that gets a vehicle to speed—felt especially at off-line take-off and during acceleration. Torque is important in getting heavy loads moving.

Toyota Vehicle Intrusion Protection (V.I.P.)

This is an optional break-in alarm that flashes the headlamps and taillamps and sounds the horn when a secured 4Runner is broken into. It also disables the starter if someone forcefully enters the car. The system is automatically armed by removing the ignition key from the ignition.

Transfer Case

This is a drivetrain component used in 4-wheel drive vehicles that transfers output power from the transmission to the front drive shaft in order to drive the front axle. Transfer cases typically have two gear ranges: high and low.

Towing Capacity

The maximum weight a vehicle can pull. Towing the maximum weight may require a particular transmission, trailer hitch or other equipment.

Ventilated Disc Brakes

Vents in the brake rotor allow cooling air to pass through the hot disc. This helps reduce heat build-up and lessens the chance of the brake fading, glazing or warping.

***N*otes**

***N*otes**

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Any EPA fuel economy figures included in this publication are estimates to be compared with "estimated mpg" of other vehicles. Drivers may get different mileage depending on the speed they drive, weather conditions, trip length, condition of the vehicle and vehicle equipment. Mileage in actual driving will probably be less than EPA estimated fuel economy for highway driving.

Retail Development
M/N 00623-98001-M

Interior Trim

4RUNNER

EXTERIOR	CODE	INTERIOR	CODE	CLOTH	SR5 V6 SPORT CLOTH ¹	SR5 V6 LEATHER ¹
Natural White	(056)	Gray	(16).....	■.....	■.....	
		Oak	(45).....	■.....	■.....	■ 2
Anthracite Metallic	(1A1)	Oak	(45).....	■.....	■.....	■ 3
Desert Dune Pearl	(1A5)	Oak	(45).....	■.....	■.....	■ 2
Black	(202)	Gray	(16).....	■.....	■.....	
		Oak	(45).....	■.....	■.....	■ 3
Sunfire Red Pearl	(3K4)	Gray	(16).....	■.....	■.....	
		Oak	(45).....	■.....	■.....	■ 2
Radiant Red	(3L5)	Oak	(45).....	■.....	■.....	■.....
Evergreen Pearl	(751)	Gray	(16).....	■.....	■.....	
		Oak	(45).....	■.....	■.....	■ 3
Azure Blue Pearl	(8L6)	Gray	(16).....	■.....	■.....	
Stellar Blue Pearl	(8L7)	Gray	(16).....	■.....	■.....	
		Oak	(45).....	■.....	■.....	■.....
Cool Steel Metallic	(926)	Gray	(16).....	■.....	■.....	

Notes:

- (1) Optional
- (2) 4Runner Limited includes Silver (181) cladding
- (3) 4Runner Limited includes Gray (156) cladding

SR5



Cloth

Gray (16)



Cloth

Oak (45)

SR5 V6



Sport Cloth

Gray (16)



Sport Cloth

Oak (45)



Leather

Oak (45)

Exterior Color

1998

4RUNNER



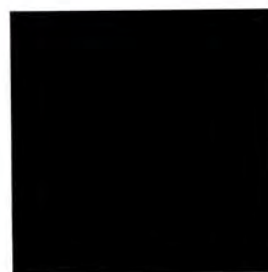
Natural White (056)



Anthracite Metallic (1A1)



Desert Dune Pearl (1A5)



Black (202)



Sunfire Red Pearl (3K4)



Radiant Red (3L5)



Evergreen Pearl (751)



Azure Blue Pearl (8L6)



Stellar Blue Pearl (8L7)



Cool Steel Metallic (926)

