

PRIUS

The gas engine provides thrust and creates electricity.
An electric motor provides thrust when the engine isn't needed.
A battery-pack stores electricity created during efficient opportunities.



"FULL"
HYBRID

Specifications Classic Model (2001-2003)

Emission:	SULEV (Super Ultra Low Emission Vehicle) 90% less NO_x (Nitrogen Oxides) than average 50% less CO₂ (Carbon Dioxide) than average
MPG:	EPA estimates: 42 City, 41 Highway, 41 Combined * YMMV (Your Mileage May Vary)
Multi-Display:	Liquid-Crystal Touch-Sensitive 5.8 inch width Energy Monitor Consumption Data Audio Controls
Battery-Pack:	Recharged using regenerative brakes and the engine, so it <i>NEVER</i> needs to be plugged in for electricity. 110 Pounds total weight NiMH (Nickel Metal Hydride) type 38 Modules total 6 Cells in each Module 228 Cells total 1.2 Volts in each Cell 273.6 Volts total
Gas Engine:	52 kW power 1.5 liter (1,497 cc), 4 cylinder (inline), 16 valve Atkinson-Miller Cycle with VVT-i 70 hp @ 4500 rpm 82 lb-ft torque @ 4200 rpm
Electric Motor:	33 kW power 44 hp @ 1040 - 5600 rpm 258 lb-ft @ 0 - 400 rpm
Transmission:	Planetary-CVT (PSD: Power-Split Device)
Brakes:	Regenerative, Hydraulic, Engine Disc Front, Drum Rear ABS (Anti-Lock)
Tires:	175 / 65 R 14 All-Season LRR (Low Rolling Resistance) Aluminum Alloy Rims
Security:	Automatic Arming Alarm Engine Immobilizer Audible & Visual Theft Alert Embedded ID chip keys (2 full, 1 valet)
Misc:	5 passenger capacity 88.6 cubic ft passenger volume 11.8 cubic ft cargo volume 2765 pound curb-weight 100.4 inch (8.4 ft) wheelbase 169.6 inch (14.1 foot) length 66.7 inch (5.6 foot) width 57.6 inch (4.8 foot) height 0.29 Cd (coefficient of drag) 12.5 seconds 0-60 MPH 42.0 MPH top speed (motor only) 99.4 MPH top speed (engine & motor) AM/FM/Cassette with 4 speakers. Rear Windows go all the way down! A/C & Heat can be set to a specific temperature. Keyless Entry remotes, 2 come standard.
Options:	1 or 6 CD Player Cruise-Control Side Airbags Glass Breakage Sensor Daytime Running Lights Navigation System Cargo Net

Electricity comes from the Gas Engine & Brakes

You never plug in the battery-pack. In fact, there isn't even a cord. The recharging is done for you.

Gas Engine automatically provides electricity by igniting gasoline to operate the generator.

Brakes automatically create electricity by using excess kinetic energy to provide regeneration.

Frequent Gas Engine Restarts are not harmful

Rather than just using a small motor to spin the gas engine to only 100 RPM, like traditional vehicles do, the hybrid system uses a much larger motor which spins the gas engine to a minimum of 800 RPM. Then the system waits until oil-pressure is established before injecting fuel and producing a spark. This process enables a very smooth startup, reducing burden on bearings, pistons, and cylinders.

Bigger than it looks

The short front and extra tall roof make the car appear small, like a compact. The leg-room is as big as many common sedans, and the head-room is actually bigger.

Battery-Pack

Life-Expectancy is 10-12 years or around 150,000 to 200,000 miles depending on driving conditions. Some owners have even exceeded that distance. (Note: The battery-pack was designed to be recycled.)

Warranty is 8 years / 100,000 miles. This covers the battery-pack, power-inverter, generator-motor, and propulsion-motor, enough to provide worry-free confidence for most owners.

Total weight is only 110 pounds and it's only the size of 6 regular loaves of bread.

Acceleration

The hybrid system is surprisingly swift. You can effortlessly merge into traffic, just like a traditional car.

Cold Weather

Years of Prius owners driving in the northern United States and Canada have proven that even frigid conditions are of no concern. The cold weather of winter is not a problem for the hybrid system.

Hill Climbing

You'll be quite surprised by the ability Prius has to climb hills. The torque provided by the motor and the electricity provided by the gas engine on-the-fly will allow you to zip up to the top without any struggle.



Aqua Ice Opalescent



Black



Blue Moon Pearl



Brilliant Blue Pearl



Electric Green Mica



Golden Pearl



Silver Strata Metallic



Super White

All the information stated in this document was provided by Prius owners. None were affiliated with Toyota Motor Corporation, except as customers.

Multi-Display Screen

This 5.8 inch wide touch-sensitive device located in the center of the dashboard provides quite a bit of useful hybrid system information, in addition to providing AM/FM Radio, Cassette, and CD controls.

	<p>Stealth Mode or Battery Drive</p> <p>All thrust is provided by the electric motor and all power is provided by the battery-pack.</p>
	<p>Regeneration Charge</p> <p>As you approach a stop or just slow down, the excess kinetic energy is used to turn the generator. This creates electricity, which is used to charge the battery-pack.</p>
	<p>Engine & Motor Drive</p> <p>Sometime the battery-pack isn't needed, the engine can directly provide electricity for the motor.</p>
	<p>Engine Drive & Charge</p> <p>The engine provides thrust for the wheels along with electricity for charging the battery-pack.</p>
	<p>Engine & Motor Drive + Charge</p> <p>The engine provides thrust to the wheels as well as electricity for both feeding the motor and charging the battery-pack, all at the same time.</p>
	<p>Full Power or Gradual Slowing</p> <p>Both rapid acceleration and moderate deceleration take full advantage of the hybrid system to achieve maximum efficiency.</p>
	<p>Motor Drive & Engine Charge</p> <p>When driving backward, you might see this. The engine transmission does not have a gear for reverse, so all thrust is provided by the electric motor.</p>
	<p>Startup Charge</p> <p>When you first startup a Prius, you'll typically see this before you shift into drive or reverse.</p>
	<p>Consumption</p> <p>Interested in MPG data? This shows current, a 30-minute summary, and average MPG (since "Reset" was last pressed) as well as the amount of electricity regenerated.</p>
	<p>AM/FM Radio, Cassette, CD</p> <p>There are 7 different interface screens for the audio system. The one shown here is for FM Radio.</p>

Discussion Group: <http://autos.groups.yahoo.com/group/toyota-prius>
 Information from Toyota: <http://www.toyota.com/prius>
 Prius Owner Data & Photos: <http://john1701a.com>

Back in 1997, the Prius was introduced in Japan. Today, there are Prius on roads in the United States. Just visit your local Toyota dealer for a test drive.



Speedometer, Gear Selection, Odometer, Fuel Gauge

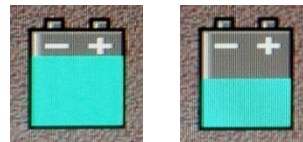
This illuminated display provides the traditional vehicle information; however, it's in a non-traditional place. Located near the base of the windshield, you may find it odd at first. But like most owners, you'll end up very pleased after discovering how much easier it is to look out & over rather than down & close-up. Plus, the view of it won't ever be obstructed by the steering-wheel.

Document Revision: 12-09-2008

Self-Recharging. The hybrid system recharges the battery-pack for you.



Just Drive It. Ignore all the technology. Let the computer worry about how to save gas and achieve Super Ultra Low Emissions for you. Enjoy the remarkably smooth & quiet ride.



Battery-Pack Charge Indicator



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