Don’t just dream of a better world. Make it. The 2019 Mirai.

The innovative Mirai Fuel Cell Electric Vehicle (FCEV) is one daring statement crafted to help shape the next generation of mobility. Mirai literally means “future,” and its advanced innovations go well beyond its hydrogen-powered fuel cell system. Engineers worked tirelessly to push the boundaries of hydrogen technology, doing everything from inventing a new way to weave carbon fiber to helping create the SAE standards used across modern hydrogen fueling stations. This investment in hydrogen is an investment in sustainable mobility for all.
“We had to create our own carbon-fiber wrapping process, which increased the speed of wrapping over six times from our previous method — far faster than anything available in the rest of the industry at the time of development. It shouldn’t be too surprising that our automotive engineers could shift gears and develop this new method, given Toyota’s origination as a loom company.”

— Jackie Birdsall, Senior Engineer, Toyota Motor North America
How it works

The Power Control Unit (PCU) decides when to use stored energy from the battery or to draw energy directly from the fuel cell system. This is part of what makes Mirai so energy efficient, and is based on the proven Toyota hybrid PCU found in Prius.

THE MOTOR
We utilized our in-house, technological know-how to select the right electric motor for Mirai. This motor has been rigorously tested across all types of environments and conditions, and delivers the reliability you expect from Toyota.

THE BOOST CONVERTER
Our four-phase boost converter brings voltage to 650 volts. Driving at a higher voltage makes more efficient use of the motor, giving Mirai a power output equivalent to other hybrids in Toyota’s portfolio.
The fuel cell system

The fuel cell system generates power by combining hydrogen with oxygen from the outside air. Toyota has helped lead the industry in this fuel cell system efficiency, achieving a high power output from a relatively compact system.

THE HYDROGEN TANKS
All of our hydrogen tanks are produced in-house and specially designed for Mirai. Toyota’s history in the loom-weaving business helped our engineers design the carbon-fiber weaving on our tanks, improving production efficiencies and helping to optimize the weight-to-storage ratio.

THE BATTERY
The battery allows for regenerative braking and also assists during high-power demands like accelerating — improving total system efficiency and fuel economy. Like the motor, the battery is sourced from proven Toyota hybrid technology.
“As of today, Toyota solely owns approximately 5,680 hydrogen-fuel-cell-related global patents. Approximately 1,970 licenses are related to the fuel cell stack, about 290 to the high-pressure hydrogen tank and about 3,350 to fuel cell system control technology.”

— Bob Carter, EVP of Sales, Toyota Motor North America
WHAT IS HYDROGEN?

Fuel a more sustainable tomorrow.

With our Environmental Challenge 2050, Toyota aims to go beyond zero environmental impact and achieve a net positive impact. One pillar of this challenge is to reduce vehicle CO2 emissions by 90 percent compared to 2010 levels, and one of the key ways to achieve this goal will be through the utilization of hydrogen as a fuel source. Wider adoption of hydrogen-powered fuel cell electric vehicles could lead to reduced emissions of greenhouse gases, helping to create a better environment for all.
Hydrogen is fuel. Pure and simple.

There are a lot of ways to produce hydrogen. But hydrogen binds to almost anything, so before it can be used, it must be separated. A variety of process technologies are available today, like steam reforming, electrolysis and gasification.

STEAM REFORMING
Steam reforming of methane is the most common method for producing hydrogen today. It starts with liquids or gases containing hydrogen, like natural gas or sustainable biogas sourced from landfills. The fuel then reacts with steam at high temperatures in a reformer, leaving you with hydrogen.

ELECTROLYSIS
Hydrogen can also be produced by separating water into its two primary elements — hydrogen (H₂) and oxygen (O₂). This process, known as electrolysis, passes an electrical current through the water to extract hydrogen. The electricity can be sourced from clean, renewable energy such as wind, solar or hydro.

GASIFICATION
Gasification is a process in which organic materials, like crops and livestock waste, are converted into hydrogen. The organic materials are placed under high temperatures, which trigger a reaction that separates the hydrogen.
You already know how to fill up.

Refilling a Mirai isn’t complicated. There’s a pump and a nozzle, just like at a gasoline station. After about five minutes, you’ll be ready to drive an EPA-estimated 312 miles.

**STEP #1**
Place the nozzle over the receptacle, creating a secure connection. Unlike gasoline pumps, hydrogen nozzles have a barrel that fits over the car receptacle.

**STEP #2**
Squeeze the handgrip latch to lock the nozzle into place. The pump will not start until the nozzle is properly engaged, preventing any hydrogen from leaking.

**STEP #3**
Let the computer top it off. During fueling, Mirai’s hydrogen fuel control computer disables the vehicle and communicates with the station pump, allowing the vehicle to fill up safely and efficiently.

**STEP #4**
Wait for the click to let you know fueling is complete. When complete, pull up the handgrip latch to unlock the nozzle and return it to the holder.

---

Mirai shown in Nautical Blue Metallic. Prototype shown. See numbered footnotes in Disclosures section.
Rethinking the fuel tank.

It all starts with hydrogen. When you pump hydrogen into the vehicle, it travels to carbon-fiber-reinforced fuel tanks where it’s stored. A vehicle as groundbreaking and revolutionary as the hydrogen-fueled Toyota Mirai is coupled with equally groundbreaking and revolutionary technology.

1. **Inner**: polymer-lined layer to hold the hydrogen
2. **Middle**: structural layer of carbon-fiber-reinforced polymer to provide strength
3. **Outer**: fiber-glass reinforced polymer layer to help protect from surface abrasions
Buying into clean energy doesn’t mean buying into the unknown.

As with Prius, we proved that alternative-fuel vehicles can be mainstream as well as fashionable. Now we’re doing the same with Mirai. Toyota engineers have spent decades developing Mirai’s fuel cell powertrain to deliver the quality, reliability and dependability expected from Toyota. This means that Mirai operates just like a regular passenger car, while creating zero emissions. Since its hydrogen fuel can be created from renewable resources like solar, wind and biowaste, Mirai is helping to usher in a new era powered by clean energy.

**HOW IT WORKS**

**FIRST COMES AIR**
The FCEV’s front intake grilles deliver the outside air to the fuel cell system.

**WHICH MAKES ELECTRICITY**
Hydrogen travels from the tanks to the fuel cell system. In the fuel cell system, hydrogen and oxygen from the air combine in a chemical reaction that creates electricity to power the vehicle.

**MOVING YOU FORWARD**
When you put your foot on the accelerator, electricity from the fuel cell system is sent to the motor.

**LEAVING NOTHING BUT WATER**
In the end, the only by-product of creating electricity with hydrogen and oxygen in our fuel cell system is water, which leaves through a hatch located on the bottom of Mirai.
A global effort. Committed to safety.

Global Technical Regulation No.13 is an agreement between Japan, Europe and North America that sets the safety requirements that all high-pressure hydrogen systems must adhere to. Compliance with this regulation is tough, and requires hydrogen tanks to be dropped, frozen, damaged, exposed to chemicals, hydraulically and pneumatically cycled, stuck on a bonfire and ultimately burst to ensure tank performance throughout the lifetime of the vehicle. Toyota engineers have worked to ensure that Mirai’s hydrogen tanks meet these regulations so that drivers may enjoy years of emission-free driving.
Available Intelligent Clearance Sonar (ICS) warns you both audibly and visually when it detects nearby pedestrians or vehicles. Under certain low-speed conditions, Rear Cross-Traffic Braking (RCTB) is designed to reduce engine power and apply the brakes if necessary.
Proven peace of mind.

Over the years, Mirai prototypes have been meticulously evaluated — including rigorous in-house crash testing and more than 10,000 miles of extreme climate testing — helping to ensure the same world-class safety you’ll find in any Toyota vehicle. The cabin is equipped with a driver and front passenger Advanced Airbag System, front seat-mounted side airbags for the driver and front passenger, front and rear side curtain airbags, plus driver knee and front passenger seat-cushion airbags. They’re all part of a system designed to help keep you safe.
Designed for safety.

Toyota Safety Sense™ 2.0 (TSS 2.0) is a bundle of active safety features standard on every 2019 Mirai. These innovative features were designed to help protect you and your passengers from harm.

Pre-Collision System with Pedestrian Detection (PCS w/PD) helps keep the road safe by detecting a vehicle, pedestrian or bicyclist in certain situations. The latest system has enhanced low-light capabilities to help detect a pedestrian at night. By combining millimeter-wave radar with a camera capable of shape recognition, the system provides an audio/visual alert, warning you of a possible collision under certain circumstances. If you don’t react, the system is designed for automatic braking support to help mitigate the potential for a collision.

Using Road Edge Detection or by detecting visible lane markings, the Lane Departure Alert with Steering Assist (LDA w/SA) issues both an audible alert and visual warning on the MID screen if an inadvertent lane departure is detected. If the system determines that the driver is not taking corrective steering action, the Steering Assist function is designed to initiate and provide gentle corrective steering to help keep Mirai in the lane.

Automatic High Beams (AHB) is a safety feature designed to help you see more clearly at night — without distracting other drivers. Designed to activate at speeds above 25 mph, AHB rely on an in-vehicle camera to help detect the headlights of oncoming vehicles and taillights of preceding vehicles, then automatically toggle between high and low beams accordingly to provide the appropriate amount of light. By using high beams more frequently, the system may allow earlier detection of pedestrians and obstacles.

See numbered footnotes in Disclosures section.
SPEED LIMIT

See numbered footnotes in Disclosures section.

TOYOTA SAFETY SENSE™ 2.0 (TSS 2.0)

DYNAMIC RADAR CRUISE CONTROL

Intended for highways and similar to “constant speed” cruise control, Dynamic Radar Cruise Control (DRCC) lets you drive at a preset speed. DRCC uses vehicle-to-vehicle distance control, which is designed to adjust your speed, to help you maintain a preset distance from vehicles ahead of you that are driving at a slower speed. DRCC uses a front-grille-mounted radar and an in-vehicle camera designed to detect vehicles and their distance. If a driver is traveling slower than you, or within your preset range, DRCC is designed to automatically slow your vehicle down without deactivating cruise control. If DRCC determines you need to slow down more, an audio and visual alert notifies you and brakes may be applied. When there’s no longer a vehicle driving slower than your preset speed in front of you, DRCC will then accelerate and regular cruise control will resume.

ROAD SIGN ASSIST

Mirai’s Road Sign Assist (RSA) helps keep the road safe. Using a forward-facing intelligent camera, Road Sign Assist is designed to detect speed limit signs, stop signs and yield signs, and displays them on the MID.

See numbered footnotes in Disclosures section.
One comprehensive benefits package.

The Mirai experience includes a number of exceptional services, including ToyotaCare® with three years of no-cost enhanced roadside assistance, regardless of mileage. Also included is a Complimentary Rental Experience, with use of a rental Toyota for up to 21 days within three years. An 8-year/100,000-mile warranty of the fuel cell components helps to ensure that this FCEV is ready to go the distance. And with 3 years or up to $15,000 worth of complimentary fuel, Mirai makes it even easier to embrace sustainability.

Learn more at: Toyota.com/Mirai/Pricing
Contact your nearest dealer at: Toyota.com/Mirai/Contact

Mirai shown in Nautical Blue Metallic and Salsa Red Pearl. Prototypes shown.
See numbered footnotes in Disclosures section.
Exterior Features

- LED low- and high-beam headlights with Automatic High Beams (AHB) with auto on/off feature
- LED Daytime Running Lights (DRL)
- LED stop lights
- Black sport front grille
- Exclusive fuel cell vehicle badging
- Color-keyed heated power auto-dimming outside mirrors with turn signal and blind spot warning indicators reverse tilt and power-folding features with 2-position memory function
- Color-keyed outside door handles (with touch-sensor lock/unlock feature on front doors)
- 17-in. silver-painted, machined, engraved alloy wheels with black-painted accents and P215/55R17 tires
- Rain-sensing, washer-linked, variable intermittent windshield wiper with heated windshield wiper de-icer
- Acoustic noise-reducing windshield and front/rear side glass

Interior Features

- Dual zone automatic climate control with Intelligent Touch controls, cabin air filter and individually controlled rear-seat vents
- Intelligent Touch controls for heated seats, heated steering wheel and windshield wiper de-icer
- Entune™ 3.0 8 Premium Audio with JBL®/Clari-Fi® Dynamic Navigation® and App Suite® — includes 11 speakers including subwoofer, amplifier, 7-in. touch-screen, AM/FM CD player, MP3/WMA playback capability, auxiliary port, USB 2.0 port with iPod® connectivity and control, Dynamic Navigation® with up to a 3-year trial, Dynamic POI Search, Dynamic Voice Recognition, hands-free phone capability and music streaming® via Bluetooth® wireless technology, Entune® App Suite®, Siri® Eyes Free®, HD Radio®, SiriusXM® with 3-month All Access trial® and Gracenote® album cover art. Connected Services — Safety Connect® with 3-year trial® Wi-Fi® Connect Powered by Verizon® with up to 2GB within 6-month trial® and Destination Assist Connect® with 6-month trial®. See toyota.com/audio-multimedia for details.
- Integrated backup camera® display with projected path
- TFT Multi-Information Display (MID), trip performance score, fuel consumption history, average fuel economy, fuel economy history, fuel cell system power level, Lane Departure Alert (LDA)® clock settings, trip history
- Water release control

Interior Features (cont.)

- SofTex®-trimmed two-stage heated front seats with contrasting inserts and seatback pockets, 8-way power-adjustable driver's seat with 2-position memory function and power lumbar support, 8-way power adjustable front passenger seat with power lumbar support
- SofTex®-trimmed two-stage heated rear seats
- Smart Key System® on front doors and trunk with Push Button Start and remote illuminated entry
- Power door locks with shift-linked automatic lock/unlock feature and anti-lockout feature
- Multi-function front seat center console with carbon-fiber-style accents, sliding cover and armrest, two front cup holders, Qi-compatible wireless smartphone charging, USB 2.0 port with iPod® connectivity and control
- One 12V rear auxiliary power outlet and two USB 2.1A charging ports®
- Four cup holders and two front bottle holders

Safety Features

- Toyota Safety Sense™ 2.0 (TSS 2.0) — Pre-Collision System® with Pedestrian Detection® (PCS w/PD) with bicyclist detection and improved low-light capabilities, Lane Departure Alert with Steering Assist (LDA w/SA)® and Road Edge Detection, Sway Warning System (SWS)®, Automatic High Beams (AHB)®, Dynamic Radar Cruise Control (DRCC)®, Road Sign Assist (RSA)®, Star Safety System™ — includes Vehicle Stability Control (VSC), Electronic Brake-force Distribution (EBD), Brake Assist (BA)® and Smart Stop Technology® (SST)®
- Eight airbags® — includes driver and front passenger Advanced Airbag System, driver and front passenger seat-mounted side airbags, driver knee airbag, passenger seat cushion airbag, and front and rear side curtain airbags
- LATCH (Lower Anchors and Tethers for Children) includes lower anchors and upper tether anchors on rear seats
- Child-protector rear door locks
- Energy-absorbing collapsible steering column
- Front and rear energy-absorbing crushzone crumple zones
- Tire Pressure Monitor System (TPMS)®
- Collision sensors: deactivate high-voltage battery and close H₂ tank valves
- Vehicle Proximity Notification System (VPNS)®
- Safety Connect® — includes Emergency Assistance, Stolen Vehicle Locator, Roadside Assistance® and Automatic Collision Notification, with three-year trial subscription.
- Blind Spot Monitor (BSM)® with Rear Cross-Traffic Alert (RCTA)®
- Intelligent Clearance Sonar (ICS)® with Rear Cross-Traffic Braking (RCTB)®
- LED Daytime Running Lights (DRL) with on/off feature
- Anti-theft system with engine immobilizer®

See numbered footnotes in Disclosures section.
**FEATURES**

**EXTERIOR**

- LED low- and high-beam headlights with Automatic High Beams (AHB)\(^2\) with auto on/off feature
- LED Daytime Running Lights (DRL)
- LED stop lights
- Black sport front grille
- Color-keyed front bumpers with black inserts with chrome accents and color-keyed rear bumpers
- Exclusive fuel cell vehicle badging
- Color-keyed heated power auto-dimming outside mirrors with turn signal and blind spot warning indicators; reverse tilt and power-folding features with 2-position memory function
- Color-keyed outside door handles (with touch-sensor lock/unlock feature on front doors)
- 17-in. silver-painted, machined, engraved alloy wheels with black-painted accents and P215/55R17 tires
- Rain-sensing, washer-linked, variable intermittent windshield wiper with heated windshield wiper de-icer
- Acoustic noise-reducing windshield and front/rear side glass
- Color-keyed roof-mounted shark-fin antenna

**INTERIOR**

- Dual zone automatic climate control with Intelligent Touch controls, cabin air filter and individually controlled rear-seat vents
- Intelligent Touch controls for heated seats, heated steering wheel and windshield wiper de-icer
- Entune™ 3.0\(^4\) Premium Audio with JBL®\(^6\) w/Clari-Fi\(^8\), Dynamic Navigation\(^7\) and App Suite\(^4,5\) — includes 11 speakers including subwoofer, amplifier, 7-in. touch-screen, AM/FM CD player, MP3/WMA playback capability, auxiliary port, USB 2.0 port\(^8\) with iPod®\(^9\) connectivity and control, Dynamic Navigation\(^7\) with up to a 3-year trial\(^10\), Dynamic POI Search, Dynamic Voice Recognition\(^11\), hands-free phone capability and music streaming\(^12\) via Bluetooth\(^12\) wireless technology, SiriusXM\(^15\) with 3-month All Access trial\(^16\) and Gracenote\(^8\) album cover art. Connected Services — Safety Connect\(^17\) with 3-year trial\(^18\), Wi-Fi Connect Powered by Verizon\(^19\) with up to 2GB within 6-month trial\(^20\) and Destination Assist Connect\(^21\) with 6-month trial\(^22\). See toyota.com/audio-multimedia for details.
- Integrated backup camera\(^23\) display with projected path
- TFT Multi-Information Display (MID), trip performance score, fuel consumption history, average fuel economy, fuel economy history, fuel cell system power level, Lane Departure Alert (LDA)\(^24\), clock settings, trip history
- SofTex\(^25\)-trimmed\(^25\) power heated tilt/telescopic steering wheel with 2-position memory function with piano-black accents and controls for audio, Multi-Information Display (MID), Bluetooth\(^61\) hands-free phone, voice command, Lane Departure Alert (LDA)\(^24\) and Dynamic Radar Cruise Control (DRCC)\(^26\)
- Water release control
- Piano-black shift lever with matte-silver accents
- TFT Display with speedometer, odometer, two tripometers, current trip information, outside temp, fuel level indicator, MPGe, ECO Driving Indicator, fuel cell system power level and battery charge indicator (also see Multi-Information Display)
- SofTex\(^25\)-trimmed\(^25\) two-stage heated front seats with contrasting inserts and seatback pockets, 8-way power-adjustable driver’s seat with 2-position memory function and power lumbar support, 8-way power adjustable front passenger seat with power lumbar support
- SofTex\(^25\)-trimmed\(^25\) two-stage heated rear seats
- Rear seat with center console and armrest cup holders
- Piano-black interior trim with carbon-fiber-style and matte-silver interior accents and chrome door handles
- Smart Key System\(^27\) on front doors and trunk with Push Button Start and remote illuminated entry
- Power windows with auto up/down and jam protection in all positions and retained-power features
- Rear window defogger with timer
- Power door locks with shift-linked automatic lock/unlock feature and anti-lockout feature
- Frameless auto-dimming day/night rearview mirror with HomeLink\(^82\)\(^2\) universal transceiver
- Multi-function front-seat center console with carbon-fiber-style accents, sliding cover and armrest, two front cup holders, Qi-compatible wireless smartphone charging\(^29\), USB 2.0 port\(^8\) with iPod\(^9\) connectivity and control
- Covered rear-seat center console with tilt open and armrest, storage compartment and two cup holders
- Passenger-side lockable glove compartment
- One 12V rear auxiliary power outlet and two USB 2.1A charging ports\(^4\)
- Dual extendable sun visors with sliding extensions and illuminated vanity mirrors
- Overhead console with maplights and dome light, sunglasses storage, Safety Connect\(^83\) button
- Front and rear dome lights, front maplights (reading lights)
- Four cup holders and two front bottle holders

See numbered footnotes in Disclosures section.  
\(\textit{S} = \text{Standard}\)
SAFETY/CONVENIENCE

Toyota Safety Sense™ 2.0 (TSS 2.0)30 — Pre-Collision System 31 with Pedestrian Detection 32 (PCS w/PD) with bicyclist detection and improved low-light capabilities, Lane Departure Alert with Steering Assist (LDA w/SA) 24 and Road Edge Detection, Sway Warning System (SWS),24 Automatic High Beams (AHB),2 Dynamic Radar Cruise Control (DRCC),26 Road Sign Assist (RSA)34

Star Safety System™ — includes Vehicle Stability Control (VSC),25 Traction Control (TRAC), Anti-lock Brake System (ABS), Electronic Brake-force Distribution (EBD), Brake Assist (BA) 24 and Smart Stop Technology® (SST) 37

Eight airbags 38 — includes driver and front passenger Advanced Airbag System, driver and front passenger seat-mounted side airbags, driver knee airbag, passenger seat-cushion airbag, and front and rear side curtain airbags

3-point seatbelts for all seating positions, driver-side Emergency Locking Retractor (ELR) and Automatic/Emergency Locking Retractor (ALR/ELR) on all passenger belts

Seatbelt pretensioners with force limiters for all seating positions

LATCH (Lower Anchors and Tethers for Children) includes lower anchors and upper tether anchors on rear seats

Child-protector rear door locks

Energy-absorbing collapsible steering column

Front and rear energy-absorbing crumple zones

Side-impact door beams

Tire Pressure Monitor System (TPMS) 39

Collision sensors: deactivate high-voltage battery and close H₂ tank valves

Vehicle Proximity Notification System (VPNS) 40

Safety Connect® 17 — includes Emergency Assistance, Stolen Vehicle Locator, Roadside Assistance 41 and Automatic Collision Notification; with three-year trial subscription

Blind Spot Monitor (BSM) 3 with Rear Cross-Traffic Alert (RCTA) 42

Intelligent Clearance Sonar (ICS) 43 with Rear Cross-Traffic Braking (RCTB) 55

LED Daytime Running Lights (DRL) with on/off feature

Anti-theft system with engine immobilizer 44

SPECIFICATIONS for Toyota Fuel Cell System

MECHANICAL/PERFORMANCE

<table>
<thead>
<tr>
<th>NAME</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toyota fuel cell system</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid polymer electrolyte</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HUMIDIFICATION METHOD</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal circulation form (humidifier-less)</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAX POWER OUTPUT</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>153 hp</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER DENSITY BY VOLUME</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 kW/L</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POWER DENSITY BY WEIGHT</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0 kW/kg</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOLUME</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>37 liters</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WEIGHT</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>56 kg</td>
<td>$</td>
</tr>
</tbody>
</table>

MECHANICAL/PERFORMANCE (continued)

<table>
<thead>
<tr>
<th>CELL</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cells: 370</td>
<td>$</td>
</tr>
<tr>
<td>Cell thickness: 1.34mm</td>
<td>$</td>
</tr>
<tr>
<td>Cell weight: 102g</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SEPARATOR MATERIAL</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium</td>
<td>$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EMISSION RATING</th>
<th>Mirai</th>
</tr>
</thead>
<tbody>
<tr>
<td>California Air Resources Board (CARB) Emission Standard: Zero Emissions Vehicle (ZEV)</td>
<td>$</td>
</tr>
<tr>
<td>Federal Environmental Protection Agency (EPA) Emission Standard: Tier 3 Bin 0</td>
<td>$</td>
</tr>
</tbody>
</table>

See numbered footnotes in Disclosures section. $ = Standard
### SPECIFICATIONS for Toyota Fuel Cell System (continued)

#### WEIGHTS AND CAPACITIES Mirai

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Curb weight (lb.)</td>
<td></td>
<td>4075</td>
</tr>
<tr>
<td>Seating capacity</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Passenger volume (cu. ft.)</td>
<td></td>
<td>85.7</td>
</tr>
<tr>
<td>Cargo volume (cu. ft.)</td>
<td></td>
<td>12.8</td>
</tr>
</tbody>
</table>

#### TIRES

<table>
<thead>
<tr>
<th>Size</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>P255/55R17</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### DRIVE BATTERY

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Sealed Nickel-Metal Hydride (Ni-MH), 34 cell modules</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power Output</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>244.8 V (7.2 V x 34 cell modules)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### POWER ON-DEMAND SYSTEM

<table>
<thead>
<tr>
<th>Maximum Electricity Output</th>
<th></th>
<th>9 kW</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Crusing Range</th>
<th></th>
<th>Approximately 300 miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-60</td>
<td></td>
<td>9 seconds</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MPG/Electricity Other</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MPGe</td>
<td></td>
<td>67</td>
</tr>
<tr>
<td>Range (miles)</td>
<td></td>
<td>312</td>
</tr>
</tbody>
</table>

#### DRIVETRAIN

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
<th>Front-Wheel Drive</th>
</tr>
</thead>
</table>

#### SUSPENSION

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
<th>MacPherson strut</th>
</tr>
</thead>
<tbody>
<tr>
<td>REAR</td>
<td></td>
<td>Torsion beam</td>
</tr>
</tbody>
</table>

#### STEERING

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
<th>Electric Power Steering (EPS), power-assisted rack-and-pinion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turning circle diameter, curb to curb (ft.)</td>
<td></td>
<td>37.4</td>
</tr>
</tbody>
</table>

#### ELECTRIC MOTOR

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
<th>Permanent Magnet AC synchronous</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Output</td>
<td></td>
<td>151 hp</td>
</tr>
<tr>
<td>Torque</td>
<td></td>
<td>247 lb.-ft.</td>
</tr>
</tbody>
</table>

#### DIMENSIONS

<table>
<thead>
<tr>
<th>Exterior Dimensions (in.)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall height</td>
<td></td>
<td>60.5</td>
</tr>
<tr>
<td>Overall width</td>
<td></td>
<td>71.5</td>
</tr>
<tr>
<td>Overall length</td>
<td></td>
<td>192.5</td>
</tr>
<tr>
<td>Wheelbase</td>
<td></td>
<td>109.5</td>
</tr>
<tr>
<td>Track (front/rear)</td>
<td></td>
<td>60.5/61</td>
</tr>
<tr>
<td>Minimum running ground clearance</td>
<td></td>
<td>5.1</td>
</tr>
<tr>
<td>Coefficient of drag (Cd)</td>
<td></td>
<td>0.29</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Interior Dimensions, Front/Rear (in.)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Head room</td>
<td></td>
<td>38.5/36.8</td>
</tr>
<tr>
<td>Shoulder room</td>
<td></td>
<td>54.3/53.52</td>
</tr>
<tr>
<td>Hip room</td>
<td></td>
<td>53.4/52.4</td>
</tr>
<tr>
<td>Leg room</td>
<td></td>
<td>42.5/30.1</td>
</tr>
</tbody>
</table>

#### BRAKES

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
<th>Power-assisted ventilated front disc brakes, solid rear disc with integrated regenerative braking and Star Safety System™</th>
</tr>
</thead>
</table>

---

See numbered footnotes in Disclosures section. $ = Standard
CARs BUILT FOR THE WAY YOU LIVE

At Toyota, we build cars for how you live. From building advanced safety features designed to help prevent crashes to driving cross-country to understand how we can make your driving experience better, our work starts with understanding your needs. Building cars for how you live also means thinking about tomorrow — from fuels efficacy and environmental innovations, to things cars, like a bicycle that you can control with your mind. And because what we learn building cars can help live in other places, we do things like help communities rebuild their homes quickly after a disaster and work with soup kitchens to help them serve more people faster. Toyota. Built for how you live.

DISCLOSURES

1. Toyota strives to build vehicles to match customer interest and thus they typically are built with popular options and option packages. Not all options/packages are available separately and some may not be available in all regions of the country. See toyota.com for product availability and options. Not all options/packages are available separately and some may not be available in all regions of the country. See toyota.com for details.

2. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details. The system is not designed to prevent contact with an object.

3. Do not rely exclusively on the Smart Key System. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

4. Limitations of the Pre-Collision System (PCS) include the possibility of false activation of the PCS/SCW system in certain situations. PCS/SCW is not a collision-avoidance system or a substitute for safe and attentive driving practices. System effectiveness is dependent on many factors including road, weather and vehicle conditions. See Owner’s Manual for additional limitations and details.

5. The TSS Pre-Collision System is designed to help avoid or reduce the crash speed and damage in certain frontal collisions only. It is not a substitute for safe and attentive driving. System effectiveness is dependent on many factors, such as speed, size and position of pedestrian, and weather, light and road conditions. See Owner’s Manual for additional limitations and details. See Owner’s Manual for additional limitations and details.

6. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

7. Do not rely exclusively on the Smart Key System. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

8. The Lane Departure Alert with Steering Assist is designed to read visible lane markers under certain conditions. It provides a visual and audible alert, and slight steering force when lane departure is detected.

9. The Wi-Fi Connect trial period is at no extra cost and begins on the date of activation. After the trial period expires, enrollment in a paid subscription is required to access the service. Terms and conditions apply. Visit https://www.toyota.com/privycts/ for additional limitations and details.

10. The Dynamic Navigation is dependent upon an operative telematics device, a cellular connection, navigation data and GPS satellite signal reception, and other factors outside of Toyota’s control, which can limit the ability or functionality of the system. To learn about Toyota Entune™ 3.0’s data collection, use, sharing and retention, please visit https://www.toyota.com/privacyvts/. Use common sense when relying on information provided. Services and programming subject to change. Services not available in every city or roadway. Subscription required upon end of trial service period. See Navigation System Owner’s Manual for additional details. The service and associated data is the responsibility of third parties.

11. To access owner’s manual, see Owner’s Manual for additional limitations and details.

12. The functionality of the Connected Services system is dependent on many factors including road, weather and vehicle conditions. Effective operation depends on many factors, such as speed, size and position of pedestrian, and weather, light and road conditions. See Owner’s Manual for additional limitations and details.

13. Do not rely exclusively on the Smart Key System. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

14. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

15. Dynamic Radar Cruise Control is designed to assist the driver and is not a substitute for safe and attentive driving practices. System effectiveness is dependent on many factors including road, weather and traffic conditions. Effective operation depends on many factors, such as speed, size and position of pedestrian, and weather, light and road conditions. See Owner’s Manual for additional limitations and details.

16. The Destination Assist Connect trial period is at no extra cost and begins on the original date of purchase or lease of a new vehicle. After the trial period expires, enrollment in a paid subscription is required to access the service. Terms and conditions apply. Visit https://www.toyota.com/privycts/ for additional limitations and details.

17. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

18. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

19. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

20. The Destination Assist Connect trial period is at no extra cost and begins on the original date of purchase or lease of a new vehicle. After the trial period expires, enrollment in a paid subscription is required to access the service. Terms and conditions apply. Visit https://www.toyota.com/privycts/ for additional limitations and details.

21. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

22. The Lane Departure Alert with Steering Assist is designed to read visible lane markers under certain conditions. It provides a visual and audible alert, and slight steering force when lane departure is detected.

23. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

24. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

25. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

26. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

27. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

28. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

29. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

30. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

31. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

32. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

33. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

34. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.

35. Do not rely exclusively on the Blind Spot Monitor. Always look over your shoulder and use your turn signal. There are limitations to the function, detection and range of the monitor. See Owner’s Manual for additional limitations and details.
The Mirai is a hydrogen-powered fuel cell electric vehicle that must be fueled at hydrogen stations conforming to the latest Society of Automotive Engineers (SAE) hydrogen fueling interface protocol standards or laws that may years, regardless of mileage. The Mirai enhancement of ToyotaCare — a total of 3 years or 35,000 miles, whichever comes first — is valid only at authorized Mirai Fuel Cell Electric Vehicle Dealerships in the continental United tire pressure should be checked regularly with a gauge; do not rely solely on the monitor system. See Owner's Manual for details. This device is not a substitute for safe and attentive driving practices. It is the driver's responsibility to maintain a lookout for pedestrians, cyclists, other cars and objects, and to drive in a safe and attentive manner to avoid making contact. Roadside Assistance coverage is 3 years unlimited mileage. Does not include parts and fluids, except emergency fuel delivery. See Toyota Mirai Fuel Cell Electric Vehicle Dealership for details and exclusions. Only valid in the continental U.S. and Alaska. Do not rely exclusively on the Rear Cross-Traffic Alert system. Always look over your shoulder and use your mirrors to confirm rear clearance. There are limitations to the function, detection and range of the system. See Owner's Manual for additional limitations and details. Intelligent Clearance Sonar (ICS) is designed to assist drivers in avoiding potential collisions at speeds of 9 mph or less. Certain vehicle and environmental factors, including an object’s shape and composition, may affect the ability of the ICS to detect it. Always look around outside the vehicle and use mirrors to confirm clearance. See Owner's Manual for additional limitations and details. The engine immobilizer is a state-of-the-art anti-theft system. When you insert your key into the ignition switch or bring a Smart Key fob into the vehicle, the key transmits an electronic code to the vehicle. The engine will only start if the code in the transponder chip inside the key/fob matches the code in the vehicle's immobilizer. Because the transponder chip is embedded in the key/fob, it can be costly to replace. If you lose a key or fob, your Toyota dealer can help. Alternatively, you can find a qualified independent locksmith to perform high-security key services by consulting your local Yellow Pages or by contacting www.aloa.org. Fueling time varies with hydrogen fueling pressure and ambient temperature. Gas stations are limited by weight and distribution. Always properly secure cargo and cargo area. 2019 EPA-estimated 67 city/67 highway/67 combined MPGe for Mirai and 312-mile driving range. Actual mileage will vary for many reasons including driving conditions and how you drive and maintain your vehicle. Range measurement pursuant to SAE J2601 standards (ambient temperature: 20°C; hydrogen tank pressure when fueled: 70 MPa). Fueling time varies with hydrogen fueling pressure and ambient temperature. Only valid in the continental United States. See an Authorized Mirai Fuel Cell Electric Vehicle Dealership for details and exclusions. The twenty-one complimentary days will expire after the third year and any unused days will not carry over. Complimentary fuel for three years or $15,000 maximum, whichever comes first — is valid only at authorized Mirai Fuel Cell Electric Vehicle Dealerships in the continental United States. See an Authorized Mirai Fuel Cell Electric Vehicle Dealership for details and exclusions. The twenty-one complimentary days will expire after the third year and any unused days will not carry over. Complimentary fuel for three years or $15,000 maximum, whichever comes first — is valid only at authorized Mirai Fuel Cell Electric Vehicle Dealerships in the continental United States. See an Authorized Mirai Fuel Cell Electric Vehicle Dealership for details and exclusions. Extra-cost color. Only valid at Authorized Mirai Fuel Cell Electric Vehicle Dealerships in the continental United States. See dealer for details and exclusions. Do not rely exclusively on the Rear Cross-Traffic Alert system. Always look over your shoulder and use your mirrors to confirm rear clearance. The system cannot prevent all collisions, and performance is dependent on road, weather and vehicle conditions. See Owner's Manual for additional limitations and details.

**WARRANTIES**

Every Toyota Car, Truck and SUV is built to exceptional standards. And that’s not idle boasting. We back it up with these Limited Warranty Coverages:

- **Basic:** 36 months/36,000 miles (all components other than normal wear and maintenance items).
- **Fuel-Cell-System-Related Component Coverage:** Fuel Cell System components, including the FC Battery Pack, Battery ECU, FC Air Compressor, FC Boost Converter, FC ECU, H2 tanks, FC PCU (Power Control Unit), FC system, HF ECU (H2 Fueling ECU), and Power Management ECU (HV ECU).
- **Powertrain:** 60 months/60,000 miles (engine, transmission/transaxle, drive system, seatbelts and airbags).
- **Rust-Through:** 60 months/60,000 miles (corrosion perforation of sheet metal).
- **Emissions:** Covered by Federal and California regulations. Refer to applicable Warranty and Maintenance Guide for details.

Some vehicles are shown with available equipment. Seatbelts should be worn at all times. For details on vehicle specifications, standard features and available equipment in your area, contact your Toyota dealer. A vehicle with particular equipment may not be available at the dealership. Ask your Toyota dealer to help locate a specifically equipped vehicle.

**Accessories:** For Genuine Toyota Accessories purchased at the time of the new vehicle purchase, the Toyota Accessory Warranty coverage is in effect for 36 months/36,000 miles from the vehicle’s in-service date, which is the same coverage as the Toyota New Vehicle Limited Warranty. For Genuine Toyota Accessories purchased after the new vehicle purchase the coverage is 12 months, regardless of mileage, from the date the accessory was installed on the vehicle, or the remainder of any applicable new vehicle warranty, whichever provides greater coverage. You may be eligible for transportation assistance if it’s necessary that your vehicle be kept overnight for repairs covered under warranty. Please see your authorized Toyota dealership for further details. For complete details about Toyota’s warranties, please visit www.toyota.com, refer to the applicable Warranty and Maintenance Guide or see your Toyota dealer.

All information presented herein is based on data available at the time of posting, is subject to change without notice and pertains specifically to mainland U.S.A. vehicles only. Prototypes shown. Actual production vehicles may vary.