

TOYOTA TEAMMATE™ PRECAUTIONS & LIMITATIONS



ADVANCED DRIVE

APPLICABILITY:

Model year 2022 Mirai Limited equipped with optional Toyota Teammate™ package (TT)¹

Advanced Drive² is a system designed for use on controlled access highways which uses high-definition map data and detection information from various sensors to, through confirmation of the conditions by the driver, provide steering, acceleration, and deceleration support on highways and expressways. Advanced Drive is not an automated driving system.

Depending on the condition of the surrounding area, the road, or the driver, Advanced Drive may not operate or operation may be suspended. Also, it may not always be able to achieve the same level of performance. As the recognition performance and control performance of Advanced Drive are limited, it is necessary for the driver to pay attention to the driving conditions and roadway to ensure safety while the system is operating. Even if Advanced Drive is operating properly, the surrounding conditions as recognized by the driver and detected by the system may differ. Additionally, as Advanced Drive system control uses map information, the system may not operate correctly if the actual road conditions differ from the map information, such as when there is road construction or temporary lane closures. Therefore, it is necessary for the driver to ensure they have clear visibility of their surroundings, pay attention, assess risks, and ensure safety.

Situations in which Advanced Drive² should not be used:

When driving in strong wind or other inclement weather (rain, fog, snow, sandstorm, etc.)

When driving in heavy traffic or in traffic that is constantly accelerating/decelerating

When the road surface is slick, such as when it is covered with ice or snow

When driving on a road with sharp curves

When driving on a steep downward slope or on a road with a steep grade that changes sharply

When water, snow, dirt, or other foreign matter is attached to the windshield or the windshield is fogged up, covered with condensation or ice, or cracked or damaged

When the lens of a camera is dirty or fogged

When water, snow, dirt, or other foreign matter is attached to a sensor or its surrounding area

When the vehicle may be affected by the turbulence of other nearby vehicles, such as when a large vehicle passes nearby

When a heavy load has caused the vehicle height to change significantly or the vehicle to be tilted

When driving in an emergency lane or flex lane

When tire chains are installed

When the tire inflation pressure is not correct, or the tires are significantly worn

When tires other than the manufacturer specified size are installed or a compact spare tire is installed

Objects which cannot be detected by Advanced Drive:²

Objects other than vehicles on the road surface	Traffic lanes other than normal lanes, such as bus lanes, weigh stations, etc.
Vehicles outside of a lane (such as on the shoulder of the road)	Rest areas
Potholes, cracks, ruts, or other road damage	Pedestrian crossings
Road construction zones	Railroad crossings
Drawbridges	Intersections, traffic lights, or stop lines

Situations in which Advanced Drive² may not operate, may not operate properly, or may be automatically cancelled:

When the vehicle has not been driven for a certain amount of time after the fuel cell system was started	When not driving within a line that has lane lines detected by the system sensors
When the system sensors are damaged, dirty, obstructed, or have been modified	When the steering wheel is being operated or the brake pedal is being depressed
When the system determines that the driver is not paying attention to the road or their eyes are closed	When "Advanced Drive" is set to "OFF" in the multi-information display
When the driver's face cannot be detected or the system determines that the driver has poor driving posture	When snow mode has been turned on
When the vehicle speed is higher than approximately 80 mph (128 km/h)	After a terminal of the 12-volt battery has been disconnected and reconnected and the vehicle has not been driven for a certain amount of time
When Drive-Start Control is operating	When a sensor is splashed by water
When the wipers are operating at high speed	When water, snow, dust, etc. is thrown up around the vehicle
When the PCS (Pre-Collision System) ³ is actively providing warning or braking support, or has been turned off	When a very bright light, such as the sun or the headlights of another vehicle, shines directly into a camera
When the steering assist or lane change functions of the LTA (Lane Tracing Assist) ⁴ system are operating	When the ambient temperature is extremely high or low
When the vehicle is being decelerated by the dynamic radar cruise control with full-speed range ⁵ while in vehicle-to-vehicle distance control mode	When a vehicle is stopped in your lane
When the TRAC, VSC, ⁶ or ABS is actively providing vehicle control support or when TRAC or VSC has been turned off	When driving near a TV tower, broadcasting station, electric power plant, airport, radar equipped vehicles, etc., or other location where strong radio waves or electrical noise may be present

Situations in which Advanced Drive² may not operate, may not operate properly, or may be automatically cancelled (continued):

When driving in an area where the surfaces the tires contact vary greatly between the left and right side

When driving in a place where the surrounding brightness changes suddenly, such as at the entrance or exit of a tunnel

When driving around a curve at excessive speed

When the preceding vehicle is driving at a low speed

When the rear end of a preceding vehicle is small, such as an unloaded trailer

When the reflectors of a preceding vehicle are not visible or are dirty

When a preceding vehicle is a two-wheeled vehicle

When the vehicle is tilted upward (due to carrying a heavy load, or from damage or modification to the vehicle)

When a preceding vehicle has extremely high ground clearance

When a vehicle suddenly cuts between your vehicle and a preceding vehicle

When the headlights are not illuminated while driving at night or when in a tunnel

When a wiper blade is blocking a camera

When using an amateur radio

Immediately after the fuel cell system is started

Immediately after a destination has been set on the navigation system

When on roads, or immediately before roads, with extremely wide or narrow lanes

When on roads not included in the map data or roads which do not match the map data (number of lanes has changed, extensions to the road, etc.)

When on roads without clearly visible lane lines

When there is a merging lane or lane reduction, or immediately before a merging lane or lane reduction

When in areas which, according to traffic information, are closed

When driving on a sharp curve, steep grade, or long slope

When approaching or entering an exit lane or diverging junction

When the shoulder of the road has been driven on

When certain traffic regulation information is received, such as certain weather or traffic conditions

When the parking brake has been engaged

When the driver's seat belt has been unfastened

When the driver's door has been opened

When the steering wheel is operated to attempt to cross a lane line without using the turn signal lights

This section is abbreviated and does not include all precautions or limitations. Refer to a Toyota Advanced Drive Owner's Manual for a more comprehensive description of Advanced Drive operation, precautions, and limitations. The Owner's Manual and additional owner resources can be found at <https://www.toyota.com/owners/resources/warranty-owners-manuals>.

ADVANCED PARK

APPLICABILITY:

Model year 2021 and newer Mirai Limited

The Advanced Park⁷ assists in backing into or parallel parking in a spot selected on the multimedia display, or departing from a parking space, by delivering operation guidance through displays and buzzer operation, as well as changing the shift position, operating the steering wheel, accelerator pedal, and brake pedal.

It is the driver's responsibility to ensure safe conditions for entering or exiting a parking spot. Depending on the condition of the road surface or the vehicle, the distance between the vehicle and a parking space, etc., it may not be possible to assist in parking in the target space. When Advanced Park is exiting a parking spot, the front of the vehicle will partially enter an active travel lane, and the system may not warn of approaching vehicles and will not react by providing automatic braking to prevent or mitigate a possible collision. The driver must be prepared to apply the brakes and take over control if there is approaching traffic that could collide with the vehicle.

When Advanced Park⁷ is operated, it is necessary for the driver to take the following precautions:

Do not overly rely on the Advanced Park.

Always pay attention to the vehicle's surroundings while operating.

Depress the brake pedal to stop the vehicle and press the advance park main switch to disable Advanced Park if it is likely that your vehicle will collide with a nearby vehicle, parking block, object, person or low, undetected objects such as curb stones.

Never use only the multimedia display to view the area behind the vehicle, as the image displayed may differ from the actual situation.

Look directly or use the mirrors to check the safety of the area around your vehicle, especially behind the vehicle.

Be careful so that a necktie, scarf, or arm does not get caught while the steering wheel is turning. Keep your upper body away from the steering wheel. Long fingernails may be caught when the steering wheel is rotating, leading to injury.

Keep children away from the steering wheel.

Make sure there is sufficient space for the vehicle to be parked in the target parking space before beginning operation.

Immediately step on the brakes if Advanced Park is canceled and the vehicle starts moving.

Advanced Park⁷ will only operate when the following conditions are met:

The brake pedal is depressed and the vehicle is stopped prior to activating Advanced Park

The driver's seat belt is fastened

The steering wheel is not being operated and the accelerator pedal is not depressed

All of the doors and the trunk are closed

The outside rear view mirrors are not folded

The parking brake is not engaged

The dynamic radar cruise control with full-speed range⁵ is not operating

ABS, VSC,⁶ TRAC, PCS³ and PKSB⁸ are not actively providing vehicle control support

Not on a steep slope

Advanced Park is on

The VSC and TRAC are not turned off

Advanced Park⁷ may not operate or operate properly, and should not be used in situations such as the following:

When in areas other than common parking spaces or the parking space cannot be detected

When the surface of the parking space is sand or gravel and is not clearly defined with a parking space box or lines

When the parking space is not level, such as when on a slope or there are differences in height

All of the doors and the trunk are not completely closed

When the road surface is frozen, slick, or covered with snow

When it is extremely hot and the asphalt is soft

When there is an object between your vehicle and the target parking spot or within the target parking spot (within the displayed blue box)

When in high pedestrian or vehicle traffic areas

When the parking space is not suitable (too narrow or too short for your vehicle)

When images are unclear due to dirt or snow attached to the camera lens or light being shined into the camera or shadows

When tires other than the standard size are installed

When the wheels are misaligned, such after a wheel has been subjected to a strong impact

When the tires are extremely worn or the tire inflation pressure is low

When carrying a heavy load

When the vehicle is tilted due to a heavy load

When a heater is installed in the surface of the parking space (road surface freeze prevention heater)

When tire chains are installed on the vehicle

When the trunk is not completely closed

When an arm or other body part is held outside of a window

Situations in which the target parking space may not be recognized properly:

When the parking space does not use white lines (such as when parking space boundaries are marked with rope, blocks, etc.)

When the parking space box or lines are faded or dirty, making them unclear

When the road surface is bright, such as concrete, and the contrast between it and the white parking space box or lines is small

When the parking space box or lines are any color other than yellow or white

When the area surrounding the parking space is dark, such as at night, in an underground parking lot, parking garage, etc.

When a camera lens has fogged up

When the appearance of the parking space is affected by the shadow of the vehicle, a parked vehicle or trees

When it is raining or has rained and the road surface is wet and reflective or there are puddles

When the sun is shining directly into a camera, such as in the early morning or evening

When the parking space is covered with snow or de-icing agent

When there are marks from repairs or other marks on the road surface, or there is a traffic bollard or other object on the road surface

When the color or brightness of the road surface is uneven

When a camera lens is dirty or covered with water droplets

When the parking space is on a slope

This section is abbreviated and does not include all precautions or limitations. Refer to a Toyota Owner's Manual for a more comprehensive description of Advanced Drive operation, precautions, and limitations. The Owner's Manual and additional owner resources can be found at <https://www.toyota.com/owners/resources/warranty-owners-manuals>.

DISCLOSURES

1. Do not overly rely on Teammate's Advanced Drive and Advance Park capabilities and use in accordance with applicable laws. Advanced Drive is not an automated driving system. Driver is responsible for safe driving, must pay attention to surroundings and be prepared to take full control at all times. When using the hands-free feature of Advanced Park, always pay attention to the vehicle's surroundings. Before operating Teammate functions, refer to *Owner's Manual* for additional instructions and limitations. **2.** Advanced Drive is not an automated driving system. The driver is responsible for safe driving and must not overly rely on the system. Always pay attention to your surroundings and be prepared to take full control at all times. Use this system in accordance with applicable laws. Before operating, refer to *Owner's Manual* for additional instructions and limitations. **3.** The Pre-Collision System is designed to help 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 including road, weather and vehicle conditions. See *Owner's Manual* for additional limitations and details. **4.** The Lane Tracing Assist (LTA) lane centering function is designed to read visible lane markers and detect other vehicles under certain conditions. It is only operational when DRCC is engaged. Not available on vehicles with manual transmissions. See *Owner's Manual* for additional limitations and details. **5.** Dynamic Radar Cruise Control (DRCC) 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. See *Owner's Manual* for additional limitations and details. **6.** Vehicle Stability Control is an electronic system designed to help the driver maintain vehicle control under adverse conditions. It is not a substitute for safe and attentive driving practices. Factors including speed, road conditions, weather and driver steering input can all affect whether VSC will be effective in preventing a loss of control. See *Owner's Manual* for additional limitations and details. **7.** Do not overly rely on Advanced Park and use only in accordance with applicable laws. When parking using the hands-free feature, always pay attention to the vehicle's surroundings. Before operating, refer to *Owner's Manual* for additional instructions and limitations. **8.** At speeds of 9 mph or less, Parking Support Brake (PKSB) is designed to assist drivers in avoiding potential collisions with nearby static objects when the vehicle is in Drive or Reverse and approaching crossing vehicles when the vehicle is in Reverse. Do not overly rely on PKSB. Always look around outside the vehicle and use mirrors to confirm clearance. Certain vehicle and environmental factors, including an object or vehicle's shape, size and composition, may affect the system's effectiveness. See *Owner's Manual* for additional limitations and details.

(Published 2.28.22)