

With the brake pedal depressed

The hybrid system will start and stop by pressing the “POWER” switch briefly with the brake pedal depressed.

You may hear a motor sound in the engine compartment when the brake pedal is depressed with the hybrid system off.

1) “START” (Amber indicator comes on for a few seconds)

The hybrid system is ready to operate and all accessories are operable. (“IG-ON”)

Insert the key and press the “POWER” switch briefly with the brake pedal depressed.

For starting tips, see “How to start the hybrid system—” on page 350.

If, in an emergency, you must turn the hybrid system off while the vehicle is moving, press the “POWER” switch more than 3 seconds. At this time, the “ACC” mode and shift position “N” are automatically enabled.

2) “OFF” (Indicator is turned off)

The hybrid system is off. The key can be removed at this position.

You may hear a motor sound in the engine compartment for a few seconds after the system is turned off and about 90 seconds have passed.

Once you remove the key, the hybrid vehicle immobilizer system is automatically set. See “Hybrid vehicle immobilizer system” on page 21.

Approximately 5 hours after the hybrid system is turned off, you may hear a sound coming from underneath the luggage compartment for several minutes. This is normal operation and does not indicate a malfunction. (See “Leak detection pump” on page viii.)

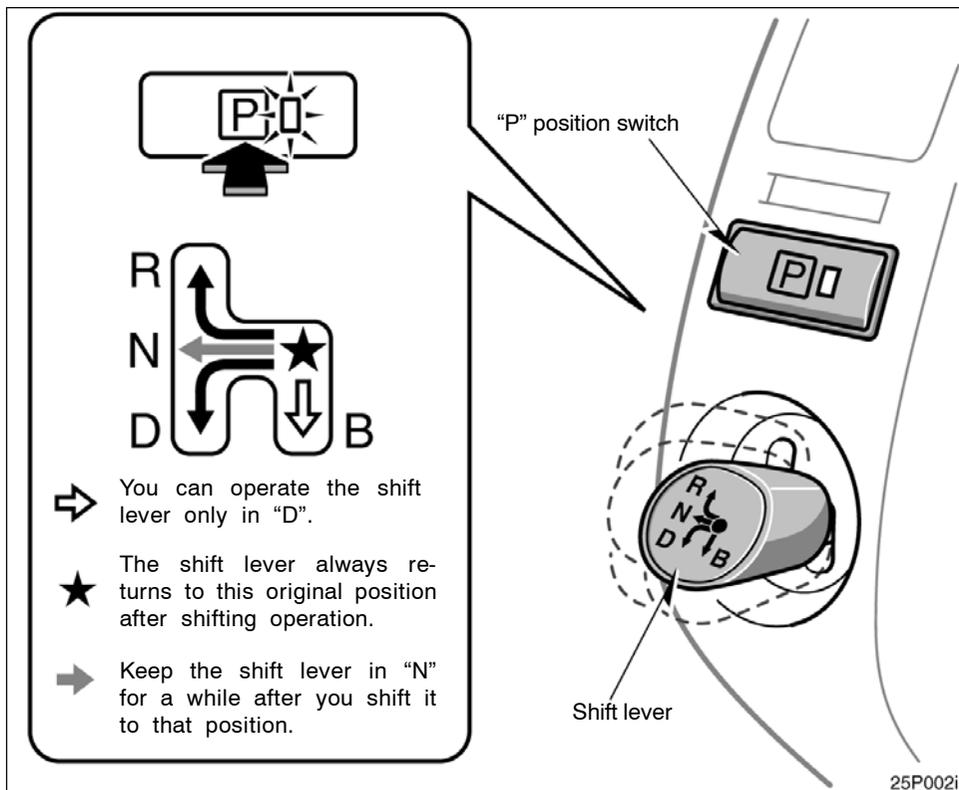
NOTICE

◆ **The hybrid system cannot be started when the shift position is in “N”. Be sure to put it in “P” and then start the system.**

◆ **Do not leave the hybrid system in “ACC” or “IG-ON” for a long time. The 12 volt battery will discharge.**

◆ **The hybrid mode in which the battery is discharged or disconnected is retained in memory, and that mode is turned on when power is applied.**

Hybrid transaxle

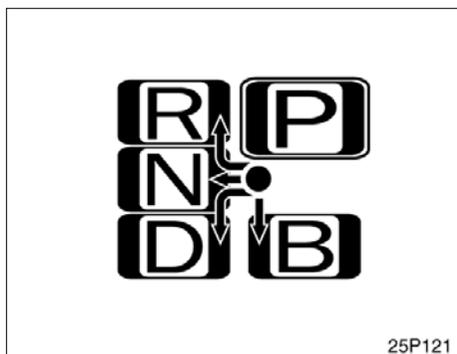


Your hybrid transaxle has an electronic shift lever system to minimize incorrect operation. This means you can only shift to other position from "P" when the brake pedal is depressed.

With the following improper shifting, the rejection function operates and a beep sounds so the hybrid transaxle cannot be shifted.

- (i) When you attempt to shift the transaxle from the "P" position without depressing the brake pedal.
- (ii) When you push the "P" switch while driving.
- (iii) When you operate the shift lever from "D" to "R" or vice versa while the vehicle is moving.
- (iv) When you operate the shift lever to "B" from any position other than "D".

In case of (i), the transaxle remains in "P". In case of (ii) through (iv), the transaxle is automatically shifted to "N".



(a) Shift lever

The shift position is displayed on the instrument cluster.

R: Reverse position (buzzer sounds)

N: Neutral position

D: Normal driving position

B: Engine braking position
(shown only while in “D”)

NOTICE

Observe the following instructions. Otherwise, the lever may cause a malfunction, resulting in trouble:

◆ *Do not remove the knob on the lever.*

◆ *Do not use a knob other than the originally fitted knob.*

◆ *Do not hang anything on the lever.*

Should you find anything unusual, contact your Toyota dealer as soon as possible.

(b) “P” position switch

The “P” (parking) position is displayed on the instrument cluster, and the indicator on the “P” position switch comes on.

(c) Normal driving

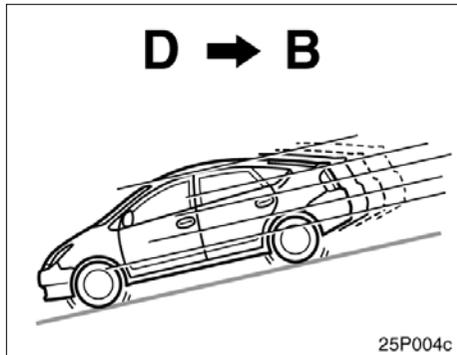
1. Start the hybrid system as instructed in “How to start the hybrid system” on page 350.
2. With your foot holding down the brake pedal, shift the shift lever to “D”.

⚠ CAUTION

Never put your foot on the accelerator pedal while shifting. Doing so can cause abrupt acceleration.

3. Release the parking brake and brake pedal. Depress the accelerator pedal slowly for smooth starting.

When you shift the transaxle to “D” while backing up, an alarm sounds and the transaxle is shifted to “N”.



(d) Using engine braking

To use engine braking, shift the shift lever to “B” position.

During high speed driving, you may feel that deceleration by engine braking is less than that of a typical vehicle.

Do not continue normal driving with the transaxle in “B” for a long time. This may cause decreased fuel economy. To prevent this, use “D” for normal driving.

When you shift the transaxle to “B” from a position other than “D”, an alarm sounds and the transaxle is automatically shifted to “N”.

 CAUTION
<p>Be careful when downshifting on a slippery surface. Abrupt shifting could cause the vehicle to skid or spin.</p>

(e) Backing up

1. Bring the vehicle to a complete stop.
2. With the brake pedal held down with your foot, shift the shift lever to the “R” position. You will hear beeps while the transaxle is in “R”.

When you shift the transaxle to “R” while driving, an alarm sounds and the transaxle is shifted to “N”.

(f) Parking

1. Bring the vehicle to a complete stop.
2. With the brake pedal pressed down, fully depress the parking brake pedal to apply the parking brake securely.
3. With the brake pedal pressed down, push the “P” position switch.

If you press the “POWER” switch while stopping, the transaxle is automatically shifted to the “P” and the hybrid system is turned off.

If the driver’s door is opened when the transaxle is in “N”, “D” or “B”, beep sounds and a warning message appears on the multi-information display to warn you to shift the transaxle to “P”.

If you push the “P” position switch while driving, an alarm sounds and the transaxle is automatically shifted to “N”.

NOTICE
<p><i>Be sure to put the hybrid transaxle in “P” when parking. In “N”, the hybrid battery will not be charged even if the gasoline engine is running. You cannot start your vehicle if the transaxle is left in “N” for a long time because the hybrid battery will discharge.</i></p>

When shifting the transaxle from “P” on the slope, a large parking lock releasing noise will be generated. However, this does not indicate a malfunction.

(g) Vehicle driving characteristics

Creeping

In order to hold the vehicle properly on an incline and for better accelerator pedal operation at starting, your vehicle is designed like a typical automatic transmission vehicle which tends to move without depressing the accelerator pedal with the transaxle in a position other than “P” or “N”.

With the transaxle in a position other than “P” or “N”, depress the brake pedal firmly even when stopped and apply the parking brake as required.

When moving in a compact area or during a traffic jam, it is an effective way to control the speed using only the brake pedal operation without depressing the accelerator pedal.

Regenerative brake

When the accelerator pedal is released or the brake pedal is depressed, the electric motor acts as a generator and converts kinetic energy to electric energy to provide deceleration and recover electric energy to charge the hybrid battery.

At this time, the electric motor running noise may increase.

The operation is the same as a typical gasoline powered vehicle.

You may experience the following condition while braking. As they do not indicate a malfunction, perform braking as usual:

- In the “OFF” mode, pressing the “POWER” switch once or twice will select “ACC” or “IG-ON” only if the brake pedal is not depressed. In this condition, the brake pedal may move a little.

Hybrid driving

This vehicle runs in combination with the gasoline engine and electric motor.

If the “READY” light is on, you can start your vehicle even with the gasoline engine stopped.

(h) If the system malfunctions

In the following conditions, there is some problem in the system.

- The indicator on the “P” position switch flashes. However, this does not indicate a malfunction unless a warning message appears in the multi-information display.
- All frames of shift position indicators in the instrument cluster flash.
- The parking system error message appears on the multi-information display.
- The instrument cluster and multi-information display does not come on when the “IG-ON” mode is enabled.

In these cases, stop your vehicle in a safe and level place, apply the parking brake securely and contact your Toyota dealer immediately.

(i) When the 12 volt battery is disconnected

Before you disconnect the 12 volt battery, confirm the shift position is “P” and apply the parking brake completely.

After you reconnect the 12 volt battery, shift the shift lever to “N” and confirm the shift position is in “N” when the “IG-ON” mode is enabled.