Electronic Shifters: How to Select Neutral for Service

ARIYA - Shifting to Neutral
When in the D/B position, with the brake pedal depressed, slide the selector lever forward and hold it there for approximately 1 second to shift to the N position.

NOTE:
When in the D/B position, if the selector lever is moved rearward (in the N direction), the shift position warning chime sounds, and the position does not shift to the N position.

Push the park button to shift to the P (Park) position before shifting to other positions.



Electronic Shifters: How to Select Neutral for Service

ARIYA –
P (Park) Position Release Procedure

If the ARIYA has a discharged 12-volt battery, an operator cannot move the shift selector out of Park.

However, the parking mechanism must be moved from Park to Neutral position when preparing for towing.

HINT:
If the battery is completely drained, the vehicle will not manually shift to other positions. For shifting to other positions, charge the battery or supply power following the jump starting procedure to set the shift position to release the vehicle from Park.

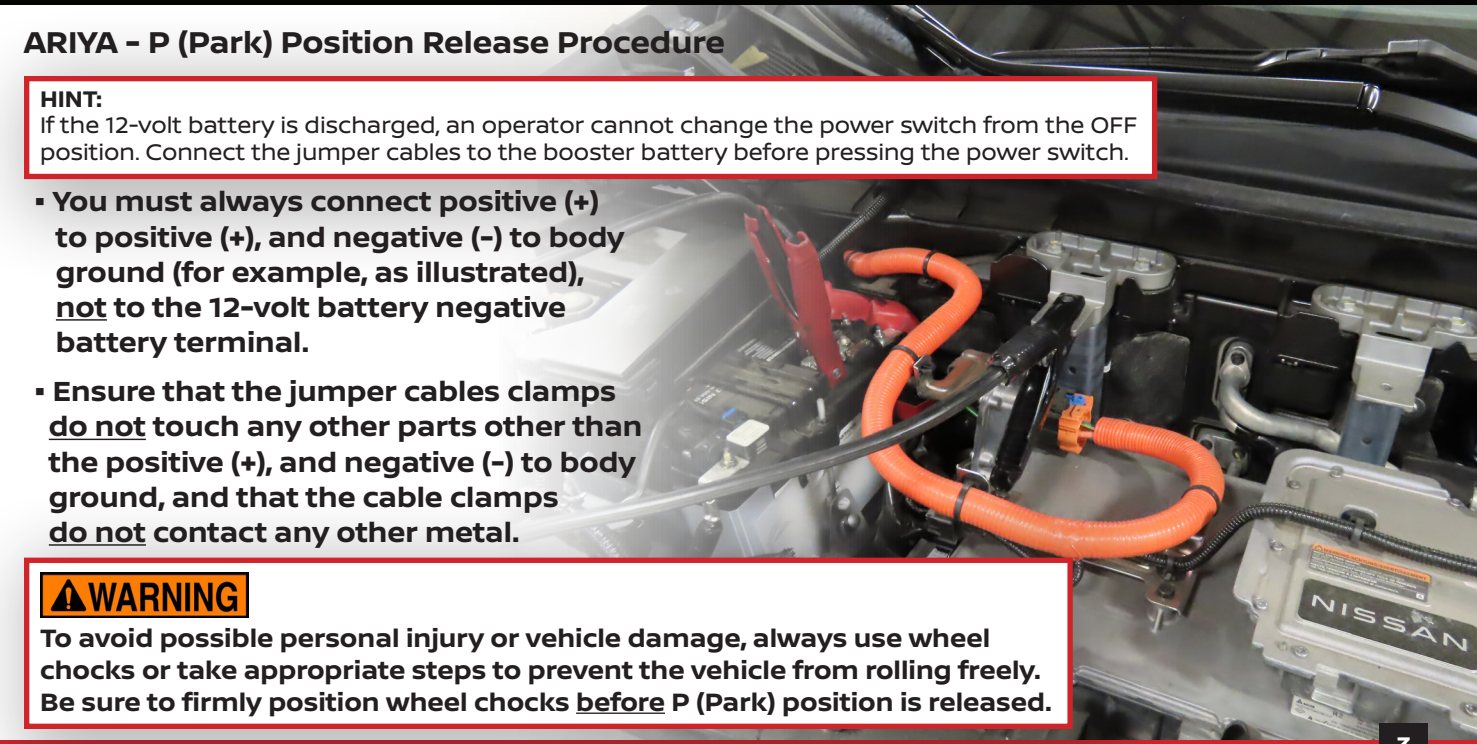


Electronic Shifters: How to Select Neutral for Service

ARIYA – P (Park) Position Release Procedure

HINT:
If the 12-volt battery is discharged, an operator cannot change the power switch from the OFF position. Connect the jumper cables to the booster battery before pressing the power switch.

- **You must always connect positive (+) to positive (+), and negative (–) to body ground (for example, as illustrated), not to the 12-volt battery negative battery terminal.**
- **Ensure that the jumper cables clamps do not touch any other parts other than the positive (+), and negative (–) to body ground, and that the cable clamps do not contact any other metal.**



⚠WARNING

To avoid possible personal injury or vehicle damage, always use wheel chocks or take appropriate steps to prevent the vehicle from rolling freely. Be sure to firmly position wheel chocks before P (Park) position is released.

Electronic Shifters: How to Select Neutral for Service

ARIYA – P (Park) Position Release Procedure

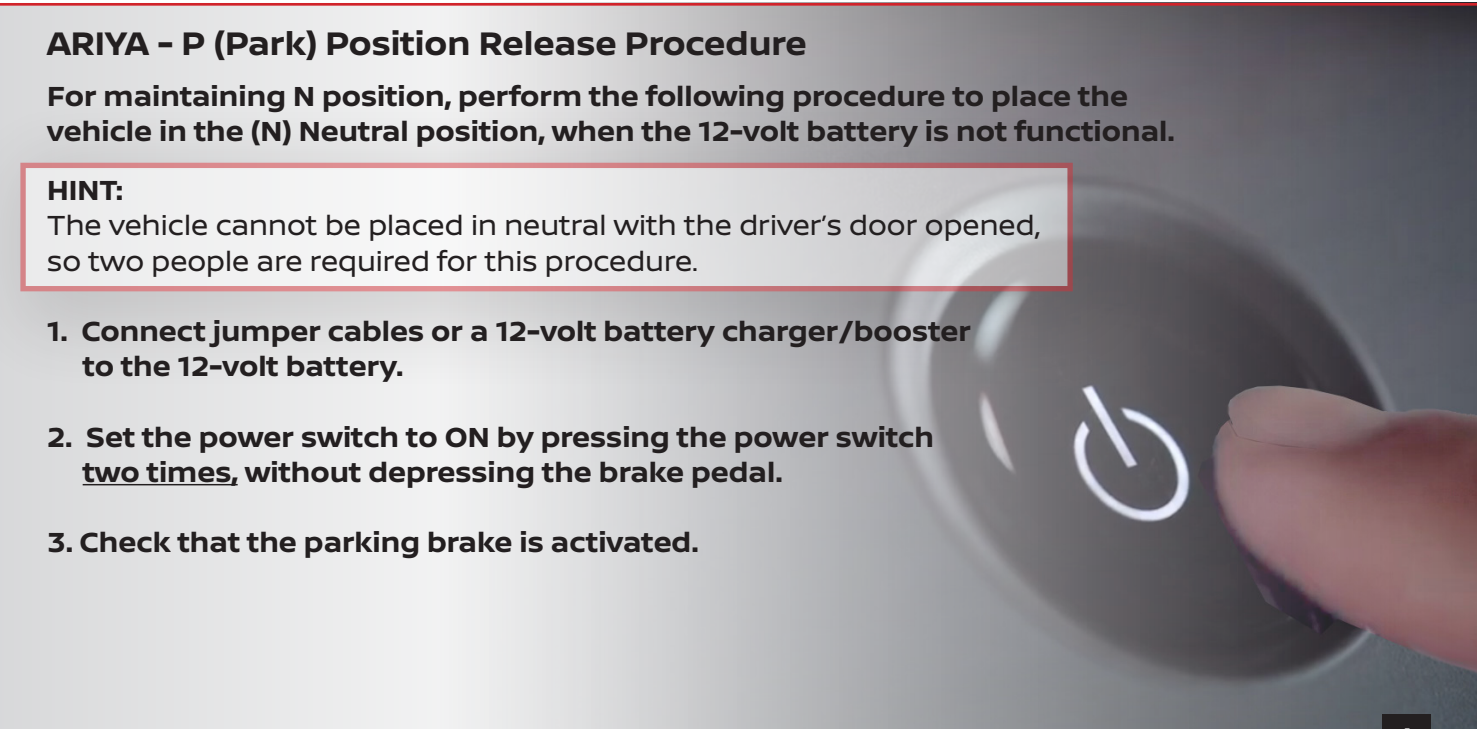
For maintaining N position, perform the following procedure to place the vehicle in the (N) Neutral position, when the 12-volt battery is not functional.

HINT:
The vehicle cannot be placed in neutral with the driver's door opened, so two people are required for this procedure.

1. **Connect jumper cables or a 12-volt battery charger/booster to the 12-volt battery.**

2. **Set the power switch to ON by pressing the power switch <u>two times,</u> without depressing the brake pedal.**

3. **Check that the parking brake is activated.**



Electronic Shifters: How to Select Neutral for Service

ARIYA – P (Park) Position Release Procedure

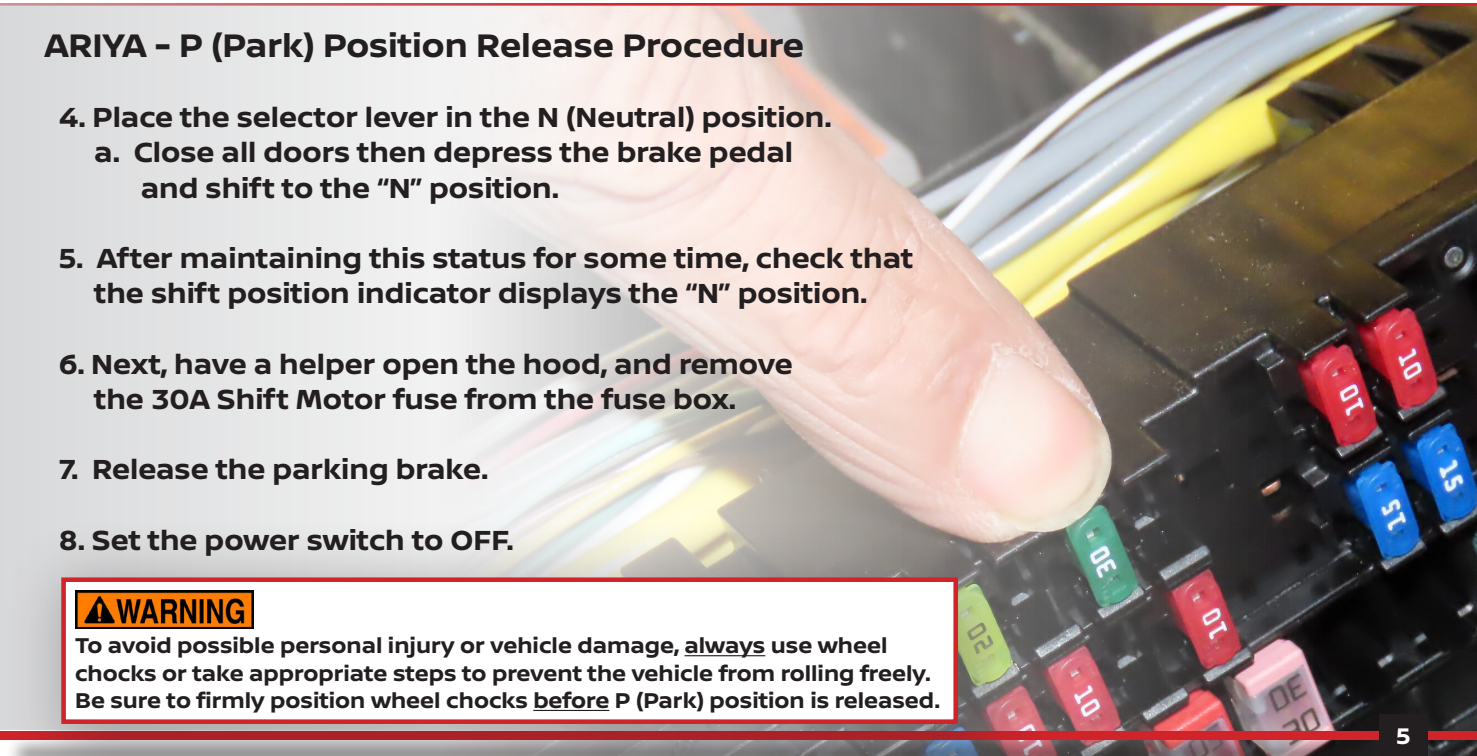
4. Place the selector lever in the N (Neutral) position.
   a. Close all doors then depress the brake pedal and shift to the "N" position.

5. After maintaining this status for some time, check that the shift position indicator displays the "N" position.

6. Next, have a helper open the hood, and remove the 30A Shift Motor fuse from the fuse box.

7. Release the parking brake.

8. Set the power switch to OFF.



⚠WARNING

To avoid possible personal injury or vehicle damage, always use wheel chocks or take appropriate steps to prevent the vehicle from rolling freely. Be sure to firmly position wheel chocks before P (Park) position is released.

Electronic Shifters: How to Select Neutral for Service

ARIYA – P (Park) Position Release Procedure

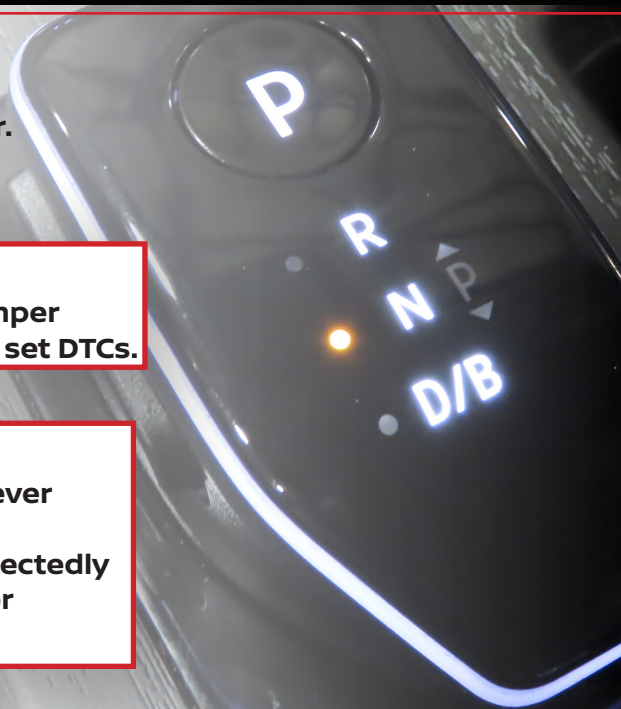
- Remove the jumper cables or battery charger/booster.
  a. You can now move the vehicle while in Neutral, with the power switched to OFF.

NOTICE

Connecting a battery maintainer, smart charger, or jumper cables to power the ARIYA vehicle's 12-volt battery, will set DTCs.

⚠WARNING

Always apply the electronic parking brake if the shift lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and may result in serious personal injury or property damage.



Electronic Shifters: How to Select Neutral for Service

Rogue, Z, Pathfinder, and QX60 with Electronic Shifter

How to Shift to Neutral

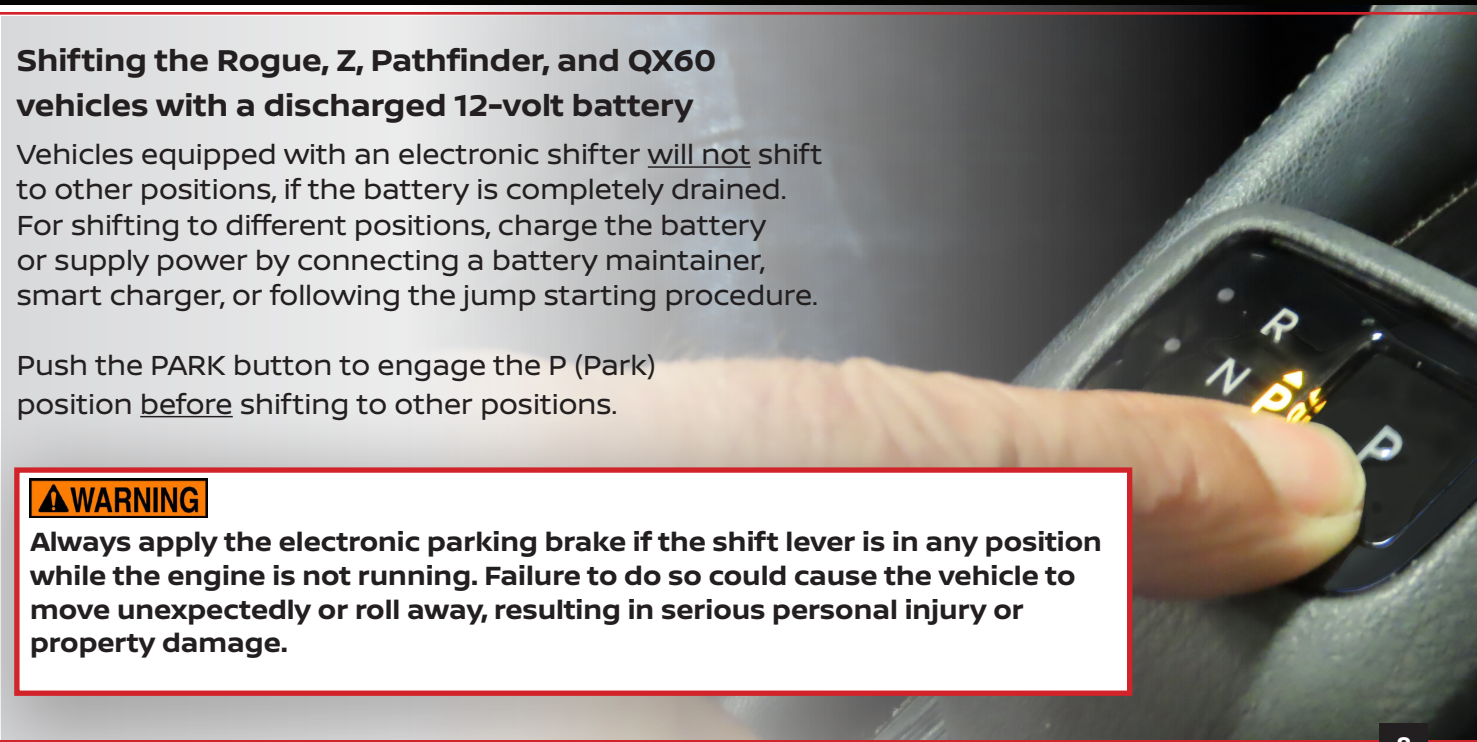
To shift to the N (Neutral) position so neither the forward nor reverse gear is engaged, perform the following:

Without pressing the shift lever button, move the lever forward or pull the shift lever backward and hold at the N (Neutral) position for 0.5 seconds.

HINT:
On the Pathfinder and QX60, the engine must be running in order to engage N (Neutral) position.



Electronic Shifters: How to Select Neutral for Service



Shifting the Rogue, Z, Pathfinder, and QX60 vehicles with a discharged 12-volt battery

Vehicles equipped with an electronic shifter will not shift to other positions, if the battery is completely drained. For shifting to different positions, charge the battery or supply power by connecting a battery maintainer, smart charger, or following the jump starting procedure.

Push the PARK button to engage the P (Park) position before shifting to other positions.

⚠WARNING

Always apply the electronic parking brake if the shift lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away, resulting in serious personal injury or property damage.

Electronic Shifters: How to Select Neutral for Service

Rogue, Z, Pathfinder and QX60

Neutral Hold mode function

HINT: The Neutral Hold mode function enables the operator to turn OFF the Rogue or Z engine with the vehicle in the N (Neutral) position.
The Pathfinder/QX60 engine must be ON in order to engage Neutral (including Neutral Hold mode). See parking lock pawl special tools for manually holding the vehicle out of park with the ignition OFF, later in this article.

While Neutral Hold mode function is activated, the vehicle can be moved by pushing, even if the ignition switch is in the OFF position.

When using this function, release the electronic parking brake.

⚠WARNING

- **Use this function on a level surface only. Failure to do so may cause the vehicle to move accidentally and result in a collision or serious personal injury.**
- **When the ignition switch is placed in the ON position, after activating this function, depress the brake pedal to stop the vehicle, because the shift lever is in the N (Neutral) position.**



Electronic Shifters: How to Select Neutral for Service

Rogue, Z, Pathfinder, and QX60

To activate the Neutral Hold mode function, perform the following operations:

1. **Press the ignition switch to start the engine.**
2. **Release the electronic parking brake.**
3. **Depress and hold the brake pedal.**
4. **Press the P Park button on the shift lever.**



Electronic Shifters: How to Select Neutral for Service

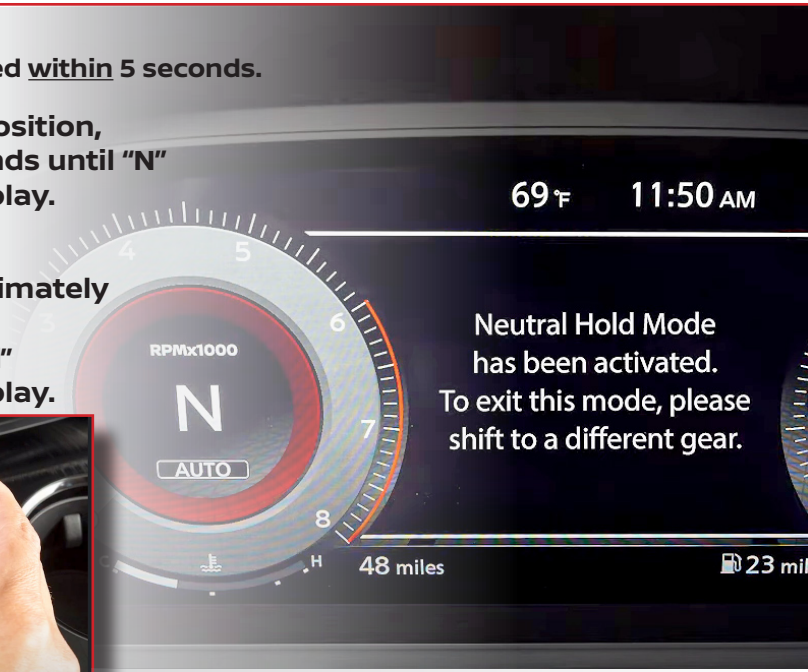
Rogue, Z, Pathfinder, and QX60

NOTE: The next three steps must be performed within 5 seconds.

5. **Slide the shift lever to the N (Neutral) position, and hold it for approximately 0.5 seconds until "N" appears in the vehicle information display.**

6. **Slide the shift lever to the N (Neutral) position again. Hold it there for approximately 0.5 seconds, until the message "Neutral Hold Mode has been activated" appears in the vehicle information display.**





Electronic Shifters: How to Select Neutral for Service

Rogue, Z, Pathfinder, and QX60

7. Rogue, and Z - The ignition switch can be placed in the OFF position and the transmission will hold the N (Neutral) position.

   Pathfinder, and QX60 - The Pathfinder, and QX60's engine must be ON, otherwise, Neutral hold mode is canceled and the P (Park) position is engaged automatically.



HINT:

- If the Neutral hold mode is unavailable, a "Neutral Hold Mode was not activated indicator" message will appear in the vehicle information display.
- If this occurs, to activate the Neutral hold mode, wait for a while without shifting and then perform the operations again.

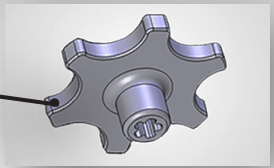
To exit the Neutral hold mode, place the vehicle in any shift position other than N (Neutral).

Electronic Shifters: How to Select Neutral for Service

Rogue, Pathfinder, Murano, and QX60 Service - Parking Lock Pawl

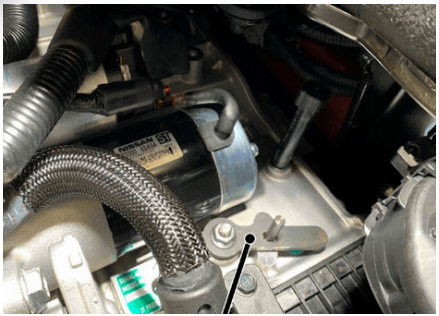
HINT:
To manually hold the vehicle out of park, special tools are available that can be used to prevent the parking lock pawl from engaging. Refer to the applicable service manual for tool usage.

Rogue -
If it is necessary to service a Rogue equipped with a GE0F14A CVT, a **special tool NI-53061** can be used to disengage the P (Park) position to set the transmission to the N Neutral range.



NI-53061
CVT Range Switch Adjuster

Pathfinder, Murano, and QX60 -
If it is necessary to perform service by moving a Pathfinder, Murano, or QX60 GE9F01A transmission out of P (Park) position with the ignition switch in the OFF position, a **special tool NI-53123** is required to disengage the parking lock pawl.



NI-53123

Electronic Shifters: How to Select Neutral for Service

Z - Cancel Automatic Park function

The park system of the Z GE9R01A requires battery voltage to disengage the parking pawl. The transmission must be placed in Neutral and the automatic park function canceled before the battery is disconnected.

The automatic park function can be cancelled in one of two ways; using CONSULT Work Support to CANCEL AUTOMATIC PARK FUNCTION, or without CONSULT.

Refer to the service manual for the step-by-step procedure of how to Cancel Automatic Park without CONSULT.
This procedure includes using the ignition switch, shift lever, brake pedal, and accelerator pedal, in a detailed sequence until the shift position indicator blinks.

After using either method to cancel the automatic park function, the transmission will stay in Neutral with the battery disconnected, until the shift lever is moved to Park.



Was this article helpful? We value your opinion! Email us at TechTalk@nissan-usa.com.