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## 2015 Nissan Pathfinder Service and Repair Manual

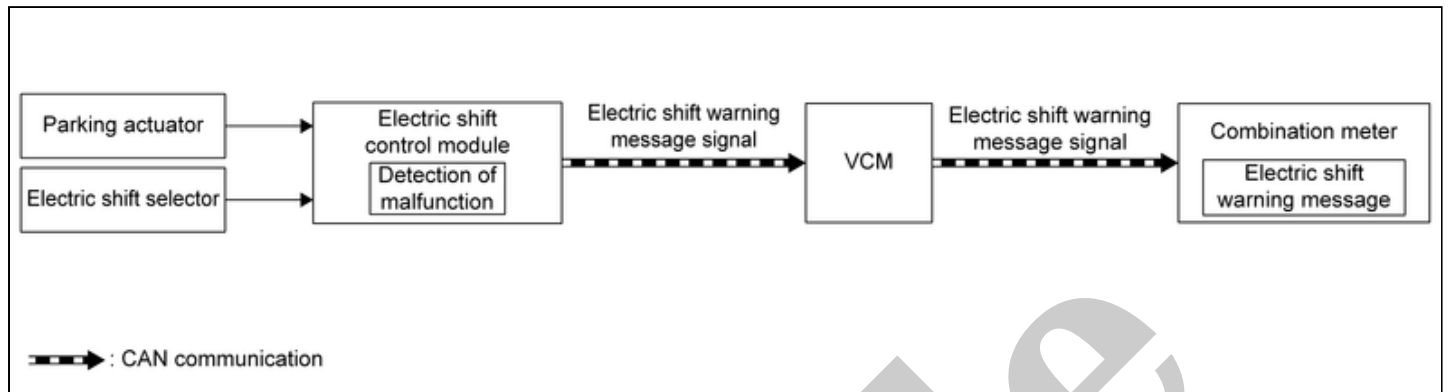
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# SYNCHRONIZATION WITH MASTER WARNING LAMP

Applicable

For master warning lamp, Refer to [Master Warning Lamp](#).

## SYSTEM DIAGRAM



SIEMD-7198720-02-000383271

## SIGNAL PATH

- When electric shift control module detects an error of the electric shift system, electric shift control module transmits a warning message signal to the controller of the VCM.
- The VCM transmits the signal to the combination meter.
- The combination meter displays each message on the information display when the electric shift warning message signal transmitted from the VCM.

## WARNING CONDITION

### ELECTRIC SHIFT WARNING A

When the electric shift system detects a DTC based on the master warning lamp (red).

### ELECTRIC SHIFT WARNING B

When the electric shift system detects a DTC based on the master warning lamp (yellow).

### SHIFT POSITION WARNING

When the neutral position of the shift lever between each position continues for 1 second.

## WARNING/DISPLAYS THE CANCEL CONDITION

### ELECTRIC SHIFT WARNING A

When any of the following conditions are satisfied:

- Erase DTC
- After the parking brake is operated with the power switch ON, Switch the power switch to OFF.

## **ELECTRIC SHIFT WARNING B**

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Erase DTC

## **SHIFT POSITION WARNING**

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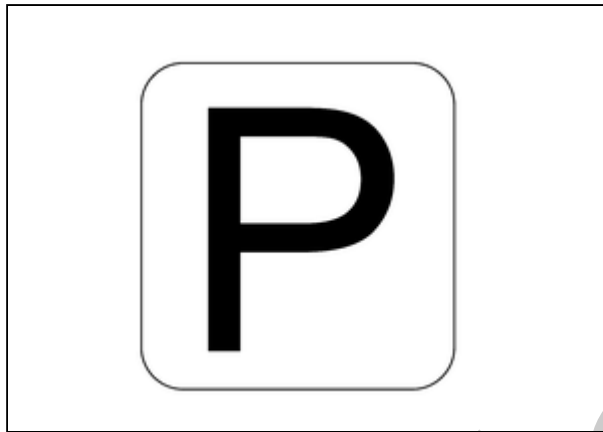
Optimize the selector lever position.

Sample

## DESIGN/PURPOSE

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The shift position indicator indicates the shift position when the power switch is in the ON or READY state.



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Sample

## Warning Lamp/Indicator Lamp

Name	Design	Layout/Function
Electric shift warning lamp		For layout: Refer to <a href="#">Design</a> .
		For function: Refer to <a href="#">Electric Shift Warning Lamp</a> .

## Warning Chime

Name	Function
Shift position warning (buzzer)	Refer to <a href="#">Seat Belt Warning</a> .
Electric shift warning (buzzer)	Refer to <a href="#">Electric Shift Warning Buzzer</a> .

## Warning/Indicator (On Information Display)

Name	Function
Electric shift warning	Refer to <a href="#">System Description</a> .
Shift position indicator	Refer to <a href="#">System Description</a> .

**NOTE:**

The parking actuator is composed of the motor, encoder, and actuator reduction gear.

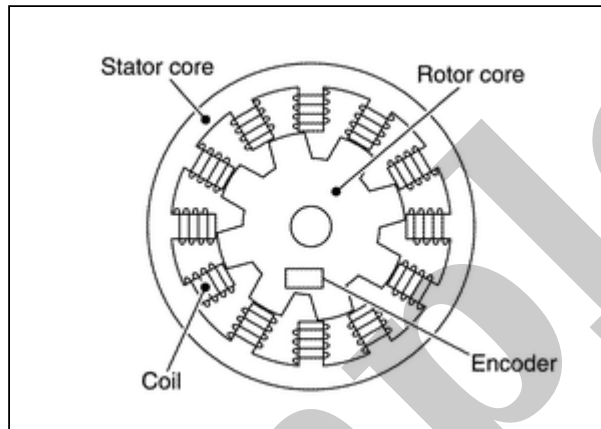
## FUNCTIONS WITHIN THE SYSTEM

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The parking actuator is operated by the signal from the electric shift control module and locks/unlocks the parking mechanism in the reduction gear.

## INDIVIDUAL FUNCTION WITHIN SYSTEM

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### Motor

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The coil is arranged on the stator core of the outer circumferential side of motor and rotation power is generated in the inner circumference of the rotor core by sequentially applying current to the coil.

### Encoder

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- Detects the rotor rotation angle and outputs the pulse signal to the electric shift control module.
- The electric shift control module optimally controls the timing of the current that is supplied to the coil based on the signals from the encoder.

### Actuator Reduction Gear

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The actuator reduction gear consists of a cycloidal gear and includes a motor with its torque amplified for secure operation under high torque-requiring conditions.

## INDIVIDUAL OPERATION

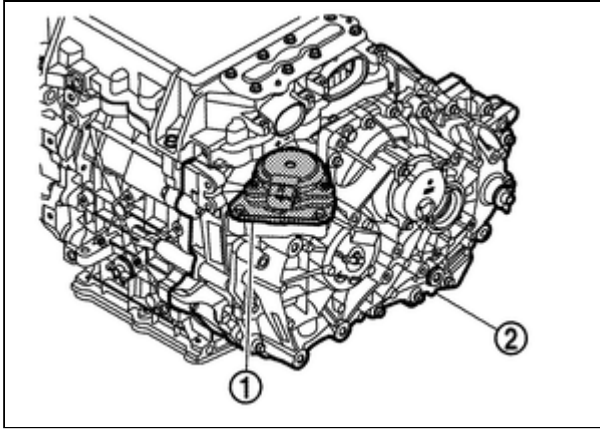
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Locks or unlocks the parking mechanism in reduction gear of vehicle. Refer to [Structure and Operation](#).

## COMPONENT PARTS LOCATION

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The parking actuator ① is installed on the upper part of the reduction gear ②.



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Sample

## FUNCTIONS WITHIN THE SYSTEM

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When selector lever at H position, press the P position switch to shift to the P position.

## INDIVIDUAL FUNCTION WITHIN SYSTEM

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The P position switch transmits the ON/OFF signals of the 2 contact switches to the electric shift control module.

P position switch operating condition	P position switch	
	No.1	No.2
Not pressed	OFF	ON
Pressed	ON	OFF

## INDIVIDUAL OPERATION

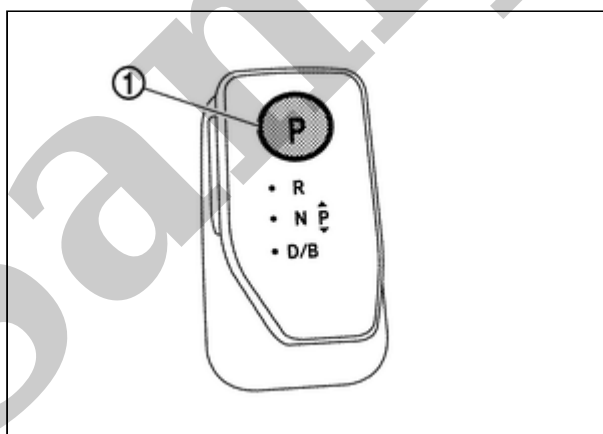
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- It is possible to switch to the P position in one operation by pressing the P position switch during a vehicle stop.
- The P position switch can not perform P position cancellation.

## COMPONENT PARTS LOCATION

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The P position switch ① is installed on the electric shift selector.



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## FUNCTIONS WITHIN THE SYSTEM

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Displays the currently selected shift position.

## INDIVIDUAL FUNCTION WITHIN SYSTEM

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Informs the driver of the currently selected shift position.

## INDIVIDUAL OPERATION

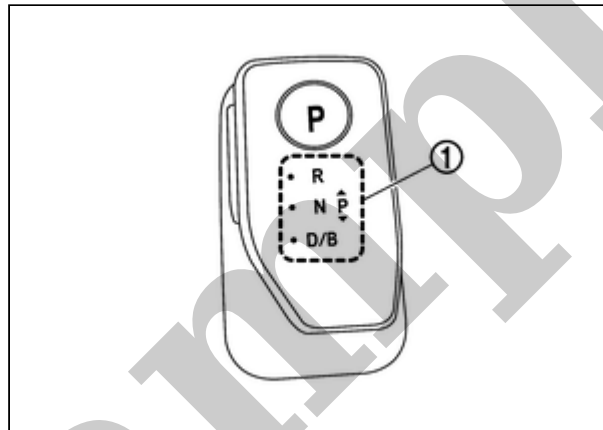
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The lamp of the shift position currently selected is lit.

## COMPONENT PARTS LOCATION

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The selector indicator ① is located on the electric shift selector.



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## FUNCTIONS WITHIN THE SYSTEM

When the electric shift sensor sends signals, the electric shift control module determines the shift position from the combination of the ON/OFF signal.

## INDIVIDUAL FUNCTION WITHIN SYSTEM

Electric shift sensor incorporates 8 contact-less sensors (Hall IC) and switches it ON/OFF according to the position of the selector lever sensors.

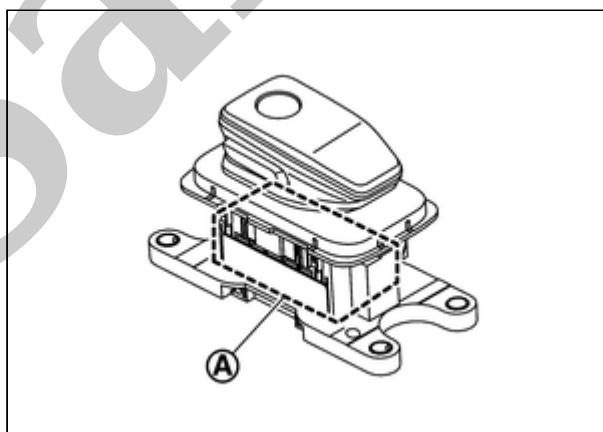
Selector lever position	Electric shift sensor							
	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8
R	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Nr	ON	ON	ON	ON	ON	OFF	OFF	OFF
H	ON	ON	ON	ON	ON	ON	ON	ON
Nd	OFF	OFF	OFF	ON	ON	ON	ON	ON
D/B	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON

## INDIVIDUAL OPERATION

The electric shift sensor transmits ON/OFF signals to the electric shift control module according to the position of the selector lever.

## COMPONENT PARTS LOCATION

The electric shift sensor is installed inside the frame (A) of the electric shift selector.



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