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2015 NISSAN Pathfinder Service Manual & Repair Workshop Guide

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PRECAUTIONS FOR SUPPLEMENTAL RESTRAINT SYSTEM (SRS) AIR BAG AND SEAT BELT PRE-TENSIONER : Precautions

RDE-001932044

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision.

Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see “SRS AIR BAG”.
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition/power switch ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition/power switch OFF, disconnect the 12V battery or batteries, and wait at least 3 minutes before performing any service.

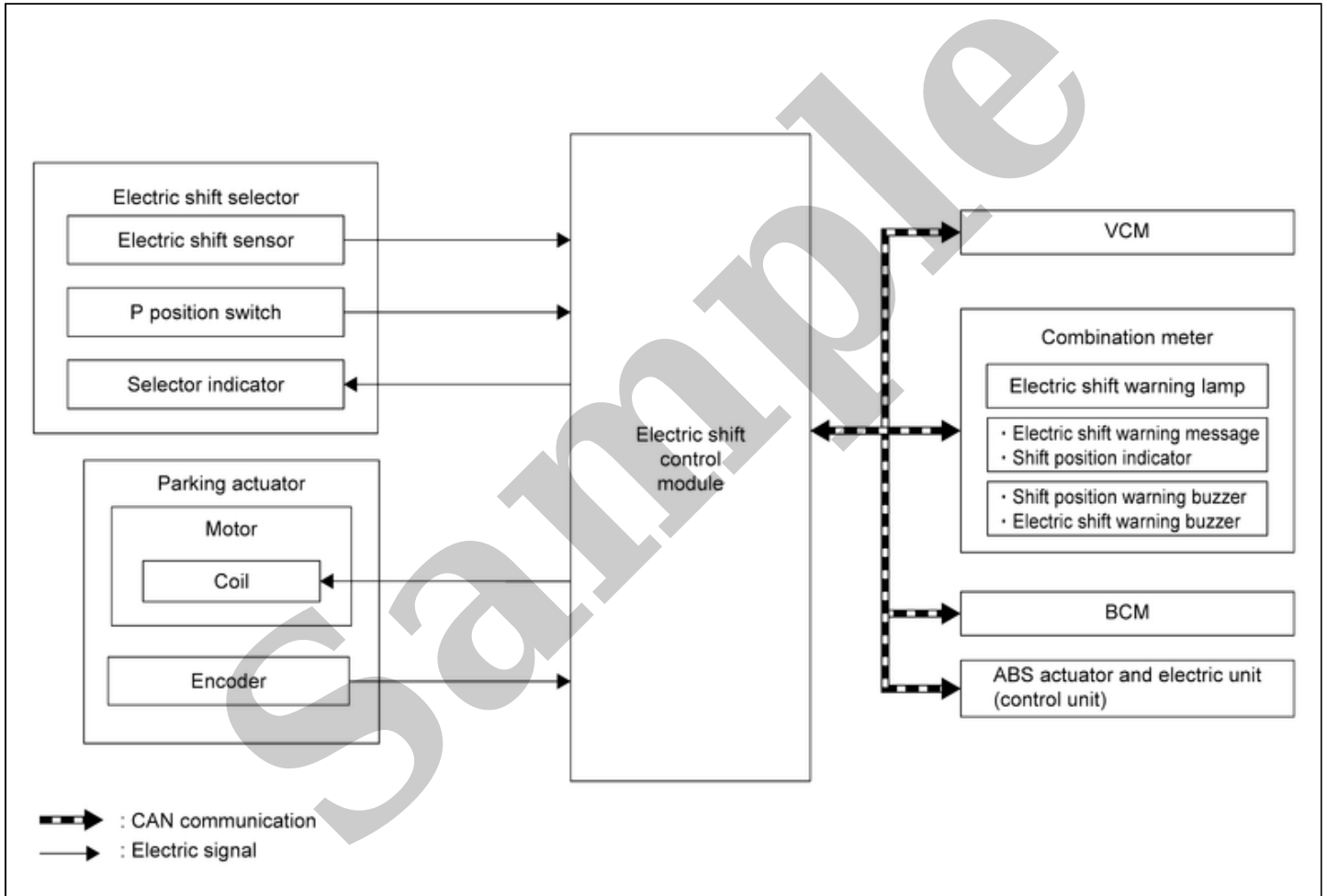
- The electric shift system detects each shift position electrically. Also, in the P position, the parking actuator is operated by an electric signal from the P position switch and it brings the vehicle into the parking state.
- The shift position indicator (inside the combination meter) is turned off when errors occur in the electric shift system.
- Fail-safe function is activated if malfunction is detected in the electric shift system. Refer to [Protection Function](#).



NOTE:

It is possible that operating sound can be heard when the shift lever has been operated but it is not abnormal.

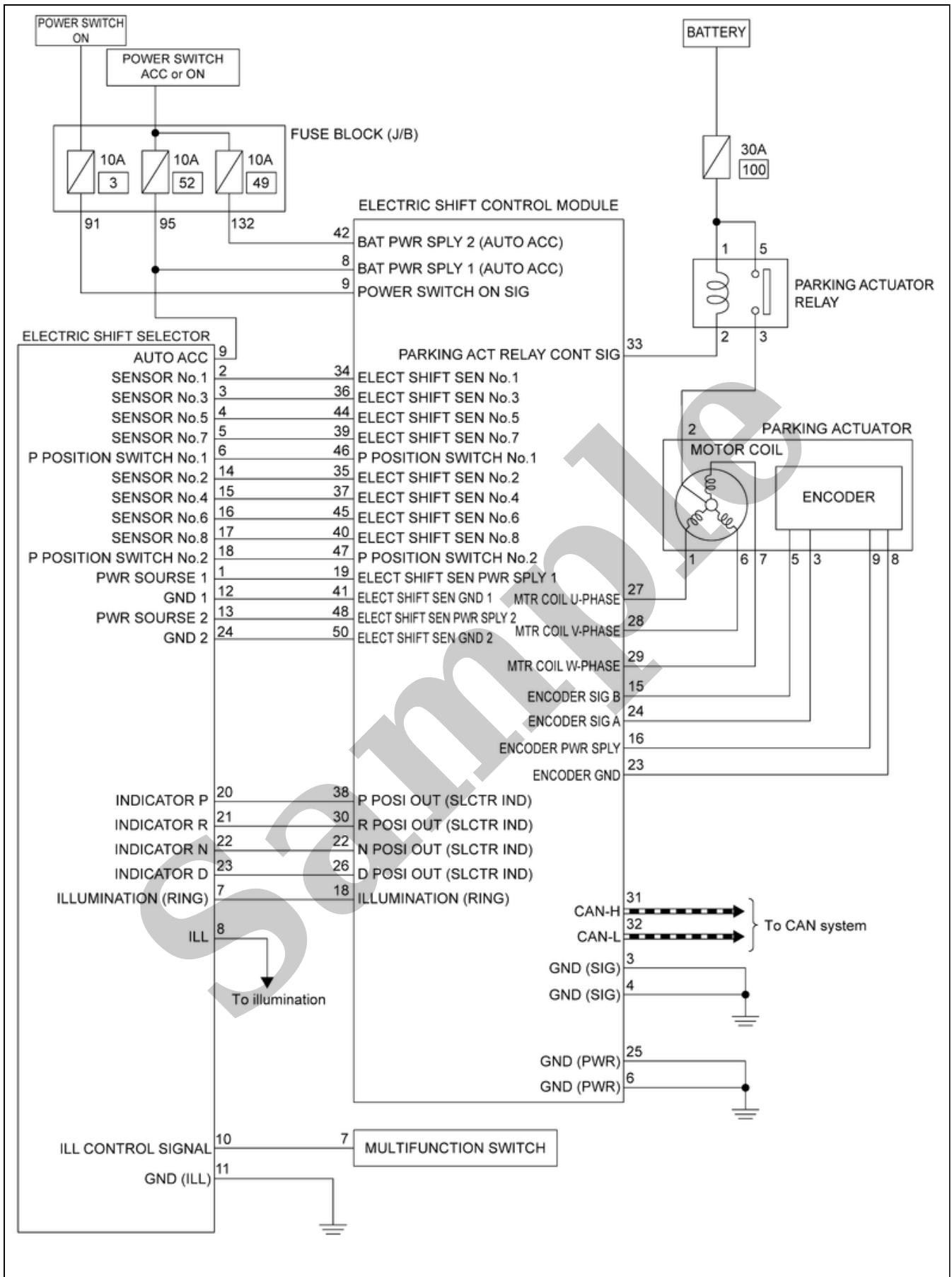
SYSTEM DIAGRAM



SIEMD-7198712-01-000379880

Component parts	Function
Electric shift control module	For the electric shift control module, Refer to Component Description .
Electric shift selector	For the electric shift selector, Refer to Component Description .
Electric shift sensor	For the electric shift sensor, Refer to Component Description .
P position switch	For the P position switch, Refer to Component Description .
Selector indicator	For the selector indicator, Refer to Component Description .
Parking actuator	<ul style="list-style-type: none"> • For the parking actuator, Refer to Component Description. • For the parking actuator relay, Refer to Component Description.
VCM	Mainly receives the following signals from electric shift control module via CAN communication

Component parts	Function
	<ul style="list-style-type: none"> • Shift position signal • Electric shift warning message signal • Electric shift warning lamp signal
Combination meter	<p>Mainly receives the following signals from VCM via CAN communication</p> <ul style="list-style-type: none"> • Shift refuse buzzer signal • Electric shift warning buzzer signal • Electric shift warning message signal • Electric shift warning lamp signal
ABS actuator and electronic unit (control unit)	<p>Mainly transmits the following signal to electric shift control module via CAN communication</p> <ul style="list-style-type: none"> • Vehicle speed signal
BCM	<p>Mainly transmits the following signal to electric shift control module via CAN communication</p> <ul style="list-style-type: none"> • Stop lamp switch signal



DTC	Vehicle behavior
P0604-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P0605-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P0606-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P0607-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P0681-00	No impact to vehicle behavior
P06F2-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P072A-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P07E9-00	No impact to vehicle behavior
P07EA-00	No impact to vehicle behavior
P07EB-00	No impact to vehicle behavior
P07EC-00	No impact to vehicle behavior
P07ED-00	Shift operation is prohibited.
P07F2-88	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P0850-00	Does not shift to P position even when the P position switch is pressed.
P0851-00	Does not shift to P position even when the P position switch is pressed.
P0852-00	Does not shift to P position even when the P position switch is pressed.
P1890-29	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P1893-00	No impact to vehicle behavior
P1897-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P189D-00	No impact to vehicle behavior
P18A7-00	Shift operation is prohibited.
P18A8-00	Does not shift to P position even when the P position switch is pressed.
P18A9-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P18AC-00	No impact to vehicle behavior
P18B4-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
P272A-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.

DTC	Vehicle behavior
P272B-00	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
U18A0-88	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
U18A1-86	No impact to vehicle behavior
U18A2-82	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
U18A2-83	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
U18A2-86	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
U18A2-87	In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
	In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.
U2118-87	No impact to vehicle behavior
U2143-87	No impact to vehicle behavior
U2148-86	No impact to vehicle behavior
U2148-87	No impact to vehicle behavior
U214F-87	No impact to vehicle behavior
U215B-86	No impact to vehicle behavior
U215B-87	No impact to vehicle behavior

Protection Function

SIEMD-7198718

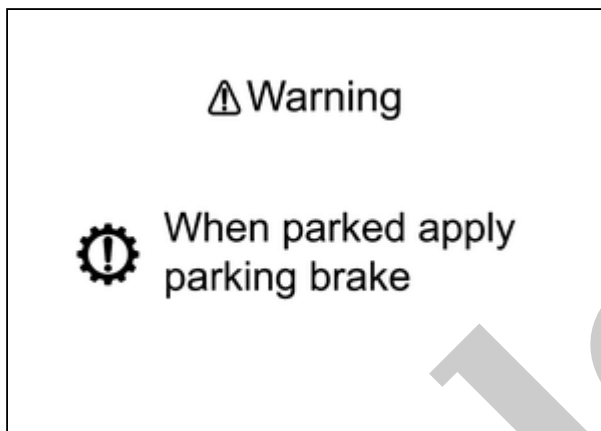
When the operation from the P position to positions other than P position, and from positions other than the P position to the P position is repeated in a short time, shift operation may not be possible for the sake of system protection. In that case, it automatically resets and shift operation becomes possible after waiting for about 10 seconds.

Sample

DESIGN/PURPOSE

ELECTRIC SHIFT WARNING A

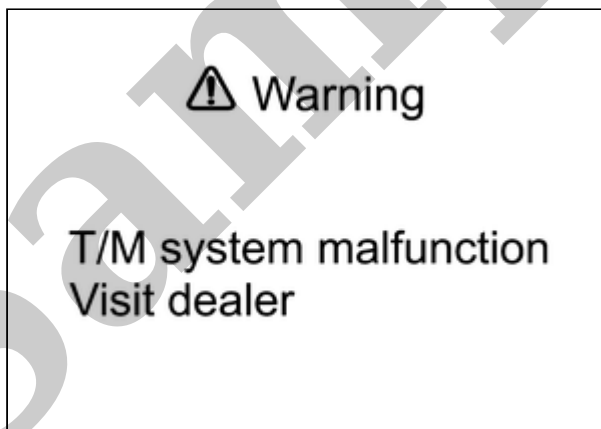
Informs the driver of the abnormality of the electric shift system.



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ELECTRIC SHIFT WARNING B

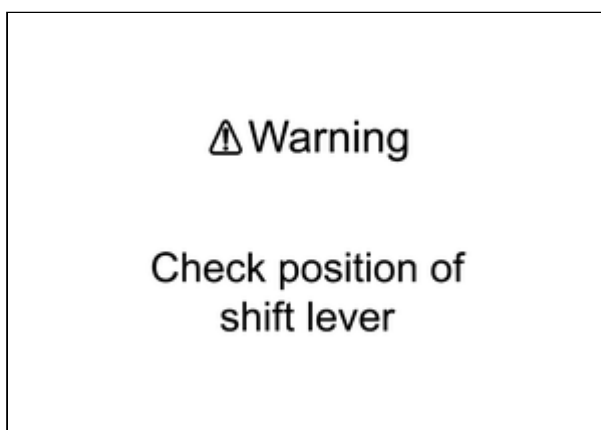
Informs the driver of the abnormality of the electric shift system.



SIEMD-7198720-04-000400821

SHIFT POSITION WARNING

Informs the driver that the selector lever is in the intermediate position of each position.



SIEMD-7198720-03-000180579