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## 2010 NISSAN Patrol LWB OEM Service and Repair Workshop Manual

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

RDE-001931877

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

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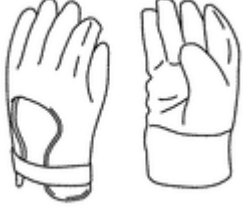



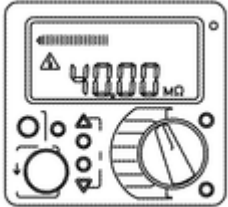
## **WARNING:**

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.

# EV CONTROL SYSTEM : Commercial Service Tools or/and Repair Part

RDE-001931879

	Tool name	Usage
Insulated rubber gloves	 <p>RDE-001888438-01-MCIA0149ZZ</p>	<p>Removing and installing high voltage components</p> <p>NOTE:</p> <p>For low voltage work up to 600 V</p>
Leather gloves	 <p>RDE-001888438-02-PCIA0066ZZ</p>	<p>Insulated rubber gloves protection</p>
Insulated safety shoes	 <p>RDE-001888438-03-PCIA0011ZZ</p>	<p>Removing and installing high voltage components</p> <p>NOTE:</p> <p>Withstand voltage: 500 V</p>
Face shield	 <p>RDE-001888438-07-PCIA0167ZZ</p>	<ul style="list-style-type: none"> <li>• Removing and installing high voltage components</li> <li>• To protect face from the spatter on the work to electric line</li> </ul> <p>[Comply with EN166.]</p>
Insulated helmet	 <p>RDE-001888438-05-PCIA0013ZZ</p>	<p>Removing and installing high voltage components</p> <p>NOTE:</p> <p>Withstand voltage: 500 V</p>
Insulated circuit tester	 <p>RDE-001888438-06-PCIA0014ZZ</p>	<p>Measuring insulated resistance, voltage, and equipotential</p> <p>NOTE:</p> <p>Voltage : DC/AC 0 V – 600 V</p> <p>Insulated resistance : 500 V / 2000 MΩ</p> <p>Resistance resolution : 0.001 Ω</p>

**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detecting condition	
P3101	61	VCM	Diagnosis condition	Always
			Signal	—
			Threshold	An internal error in the VCM is detected
			Detection time	—

**POSSIBLE CAUSE**

VCM

**FAIL-SAFE**

Traction motor output is cut

Sample

## 1. PRECONDITIONING

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1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

**When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.**

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 minutes.

**CAUTION:**

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

**If an operation is performed, wait an additional 5 minutes from that time.**

- **Check that 12V battery voltage is 11 V or more.**

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## 2. PERFORM DTC CONFIRMATION PROCEDURE

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 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END

## 1. PERFORM CONFIRMATION PROCEDURE AGAIN

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 With CONSULT

1. Erase DTC.
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P3101-61 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

Sample

## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition		
P3101	62	VCM	1	Diagnosis condition	Power switch ON
				Signal	CAN communication
				Threshold	A VCM internal torque calculation error is detected
				Detection time	More than 10 seconds
			2	Diagnosis condition	Always
				Signal	—
				Threshold	A VCM internal error is detected
				Detection time	More than 10 seconds
			3	Diagnosis condition	Always
				Signal	—
				Threshold	Externally required torque up becomes more than the standard
				Detection time	More than 0.2 seconds

## POSSIBLE CAUSE

VCM

## FAIL-SAFE

- Type 1  
Traction motor output is cut or not applicable
- Type 2 and 3  
Traction motor output is cut

## 1. PRECONDITIONING

---

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**NOTE:**

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**CAUTION:**

- **Since the auto ACC function causes the accessory power to be turned ON, do not perform any vehicle operation including locking the doors or opening and closing of the doors during the standby state.**

**If an operation is performed, wait an additional 5 minutes from that time.**

- **Check that 12V battery voltage is 11 V or more.**

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[GO TO 2](#) .

## 2. PERFORM DTC CONFIRMATION PROCEDURE

---

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in "EV/HEV".

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END



## 1. PERFORM CONFIRMATION PROCEDURE AGAIN

---

 With CONSULT

1. Erase DTC.
2. Perform DTC confirmation procedure again. Refer to [Confirmation Procedure](#).

Is DTC P3101-62 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

Sample

## DTC DETECTION LOGIC

### With ProPILOT Assist

DTC		CONSULT screen terms	DTC detecting condition	
P1564	00	ASCD switch	Diagnosis condition	Power switch ON
			Signal	ProPILOT Assist steering switch
			Threshold	When an input signal from the ProPILOT Assist steering switch is abnormal
			Detection time	—

### With ProPILOT Assist 2.0

DTC		CONSULT screen terms	DTC detecting condition	
P1564	00	ASCD switch	Diagnosis condition	Power switch ON
			Signal	ProPILOT Assist 2.0 steering switch
			Threshold	When an input signal from the ProPILOT Assist 2.0 steering switch is abnormal
			Detection time	—

## POSSIBLE CAUSE

### With ProPILOT Assist

- Harness and connector (The steering switch circuit is open or shorted)
- ProPILOT Assist steering switch
- VCM

### With ProPILOT Assist 2.0

- Harness and connector (The steering switch circuit is open or shorted)
- ProPILOT Assist 2.0 steering switch
- VCM

## FAIL-SAFE

### With ProPILOT Assist

Not applicable

### With ProPILOT Assist 2.0

Not applicable