

# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## 2015 NISSAN Titan King Cab OEM Service and Repair Workshop Manual

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## 1. ERASING THE P POSITION INFORMATION

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**NOTE:**

When the electric shift control module is new, it does not contain P position information. Therefore, erasing the P position information (this work) is not necessary.

 With CONSULT

1. Power switch OFF to ON.
2. Press the P position switch to shift to the P position.
3. Select “ACTUATOR LEARNING VALUE ELIMINATION” in “Work support” for “SHIFT”.
4. Select “Start”.
5. Touch “End”.
6. Power switch OFF and wait for 11 seconds under those conditions.
7. Power switch OFF to ON and then wait 5 seconds under those conditions.
8. Power switch OFF.

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[GO TO 2.](#)

## 2. RELEARNING THE P POSITION

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1. Power switch OFF to ON.
2. Press the P position switch.
  - Press the P position switch even if P position is already selected.
3. Power switch OFF and wait for 60 seconds under those conditions.

**CAUTION:**

**Never perform any shift operations.**

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## 3. OPERATION CHECK

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1. Power switch OFF to ON.
2. Check that the park lock functions in P position and that park lock is released in N position.
3. Power switch OFF.

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WORK END

## 1. OBTAIN A PROBLEM REPORT

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Clarify customer complaints before inspection. First of all, perform an interview utilizing Diagnostic Work Sheet (Refer to [Diagnostic Work Sheet](#).) and reproduce symptoms as well as fully understand it. Ask customer about his/her complaints carefully. Check symptoms by driving vehicle with customer, if necessary.

**CAUTION:**

Customers are not professional. Never guess easily like “maybe the customer means that...,” or “maybe the customer mentions this symptom”.

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## 2. CHECK DETECTION OF DTC

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1. Before checking the malfunction, check whether any DTC exists.

2. If DTC exists, perform the following operations.

- Record the DTC and freeze frame data. (Print out the data using CONSULT and affix them to the Work Order Sheet. )
- Erase DTCs.
- Check the relationship between the cause that is clarified with DTC and the malfunction information described by the customer.

Do malfunction information and DTC exist?

Malfunction information and DTC exists.>>

[GO TO 3.](#)

Malfunction information exists, but no DTC.>>

[GO TO 4.](#)

No malfunction information, but DTC exists.>>

[GO TO 5.](#)

## 3. REPRODUCE MALFUNCTION SYMPTOM

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- Check any malfunction described by a customer, except those with DTC on the vehicle.
- Also investigate whether the symptom is a fail-safe or normal operation. Refer to [Protection Function](#).
- When a malfunction symptom is reproduced, the Interview sheet is effective. Refer to [Diagnostic Work Sheet](#).
- Verify the relationship between the symptom and the conditions in which the malfunction described by the customer occurs.

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[GO TO 5.](#)

## 4. REPRODUCE MALFUNCTION SYMPTOM

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- Check any malfunction described by a customer, except those with DTC on the vehicle.
- Also verify if the phenomenon occurs as part of the normal operating condition. Refer to [Protection Function](#).

- When a malfunction symptom is reproduced, the Interview sheet is effective. Refer to [Diagnostic Work Sheet](#).
- Verify the relationship between the symptom and the conditions in which the malfunction described by the customer occurs.

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## 5. PERFORM THE "DTC CONFIRMATION PROCEDURE"

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Perform the "Confirmation Procedure" corresponding to the DTC and verify if the DTC is detected again.

If multiple DTCs are detected at the same time, determine the order for performing the diagnosis based on DTC Inspection Priority Chart. Refer to [DTC Inspection Priority Chart](#).



### NOTE:

**If no DTC is detected, use the freeze frame data for reference.**

Is any DTC detected?

YES>>

[GO TO 6.](#)

NO>>

Refer to [Intermittent Incident](#).

## 6. REPAIR OR REPLACE THE MALFUNCTIONING PARTS

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Repair or replace the detected malfunctioning parts.

After the repair or replacement, reconnect the removed parts and connectors, and erase DTCs.

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## 7. FINAL CHECK

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Perform "Confirmation Procedure" again to make sure that the repair is correctly performed.

Check that malfunctions are not reproduced when obtaining the malfunction information from the customer, referring to the symptom inspection result in step 3 or 4.

Is DTC or malfunction symptom reproduced?

YES>>

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NO>>

Before delivering the vehicle to the customer, make sure that DTC is erased.

## DESCRIPTION

There are many operating conditions that may cause a malfunction of the system. By understanding those conditions properly, a quick and exact diagnosis can be achieved.

### KEY POINTS

**WHAT** ..... Vehicle & motor model  
**WHEN** ..... Date, Frequencies  
**WHERE** ..... Road conditions  
**HOW** ..... Operating conditions,  
 Weather conditions,  
 Symptoms

SIEMD-16419805398610-02-000379881

In general, customers have their own criteria for a problem. Therefore, it is important to understand the symptom and status well enough by asking the customer about the concerns carefully. In order to systemize all the information for the diagnosis, prepare the question sheet referring to the question points.

In some cases, multiple conditions that appear simultaneously may cause a DTC to be detected.

## WORKSHEET SAMPLE

### Interview sheet

|                                |                          |                                                                                                                                                                                |                            |  |                    |                              |
|--------------------------------|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--|--------------------|------------------------------|
| <b>Customer name</b>           |                          | <b>MR/MS</b>                                                                                                                                                                   | <b>Registration number</b> |  | <b>Manuf. date</b> |                              |
|                                |                          |                                                                                                                                                                                | <b>Vehicle model</b>       |  | <b>VIN</b>         |                              |
| <b>In service date</b>         |                          |                                                                                                                                                                                | <b>Engine/ Motor</b>       |  | <b>Mileage</b>     | <b>km</b><br>( <b>Mile</b> ) |
| <b>Symptom</b>                 |                          | <input type="checkbox"/> Vehicle does not move ( <input type="checkbox"/> Any position <input type="checkbox"/> Specified position)                                            |                            |  |                    |                              |
|                                |                          | <input type="checkbox"/> Does not shift P position                                                                                                                             |                            |  |                    |                              |
|                                |                          | <input type="checkbox"/> Does not shift other than P position                                                                                                                  |                            |  |                    |                              |
|                                |                          | <input type="checkbox"/> Others<br>( )                                                                                                                                         |                            |  |                    |                              |
| <b>First occurrence</b>        |                          | <input type="checkbox"/> Recently <input type="checkbox"/> Others ( )                                                                                                          |                            |  |                    |                              |
| <b>Frequency of occurrence</b> |                          | <input type="checkbox"/> Always <input type="checkbox"/> Under certain conditions <input type="checkbox"/> Sometimes (time(s)/day)                                             |                            |  |                    |                              |
| <b>Climate conditions</b>      |                          | <input type="checkbox"/> Not affected                                                                                                                                          |                            |  |                    |                              |
|                                | <b>Weather</b>           | <input type="checkbox"/> Fine <input type="checkbox"/> Cloud <input type="checkbox"/> Rain <input type="checkbox"/> Snow <input type="checkbox"/> Others ( )                   |                            |  |                    |                              |
|                                | <b>Temperature</b>       | <input type="checkbox"/> Hot <input type="checkbox"/> Warm <input type="checkbox"/> Cool <input type="checkbox"/> Cold <input type="checkbox"/> Temperature [Approx. °C ( °F)] |                            |  |                    |                              |
|                                | <b>Relative humidity</b> | <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low                                                                                   |                            |  |                    |                              |
| <b>Road conditions</b>         |                          | <input type="checkbox"/> Not affected                                                                                                                                          |                            |  |                    |                              |
|                                |                          | <input type="checkbox"/> Urban area <input type="checkbox"/> Suburb area <input type="checkbox"/> High way                                                                     |                            |  |                    |                              |
|                                |                          | <input type="checkbox"/> Mounting road (uphill or down hill) <input type="checkbox"/> Rough road                                                                               |                            |  |                    |                              |
| <b>Driving conditions</b>      |                          | <input type="checkbox"/> Not affected                                                                                                                                          |                            |  |                    |                              |

| Interview sheet  |       |                                                                                                                                         |  |             |               |
|------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------|--|-------------|---------------|
| Customer name    | MR/MS | Registration number                                                                                                                     |  | Manuf. date |               |
|                  |       | Vehicle model                                                                                                                           |  | VIN         |               |
| In service date  |       | Engine/ Motor                                                                                                                           |  | Mileage     | km<br>( Mile) |
|                  |       | <input type="checkbox"/> At starting <input type="checkbox"/> During idling                                                             |  |             |               |
|                  |       | <input type="checkbox"/> During driving <input type="checkbox"/> During acceleration <input type="checkbox"/> At constant speed driving |  |             |               |
|                  |       | <input type="checkbox"/> During deceleration <input type="checkbox"/> During cornering (right curve or left curve)                      |  |             |               |
|                  |       | <input type="checkbox"/> Vehicle speed [      km/h (      MPH)]                                                                         |  |             |               |
| Other conditions |       |                                                                                                                                         |  |             |               |
| Memo             |       |                                                                                                                                         |  |             |               |

# Description

SIEMD-7201721

When the electric shift control module was replaced, it is necessary to learn the parking actuator P position information.

Sample

## 1. PARKING ACTUATOR P POSITION LEARNING

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Perform learning of the parking actuator P position. Refer to [Description](#).

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WORK END

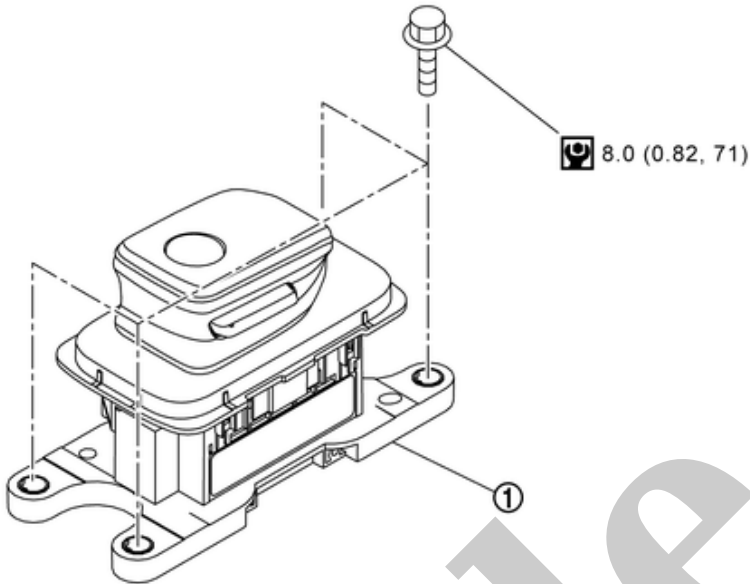
Sample

ELECTRIC SHIFT SELECTOR : Exploded View

LHD models

RDE-001932059

SEC. 349



RDE-001875250-01-000379868

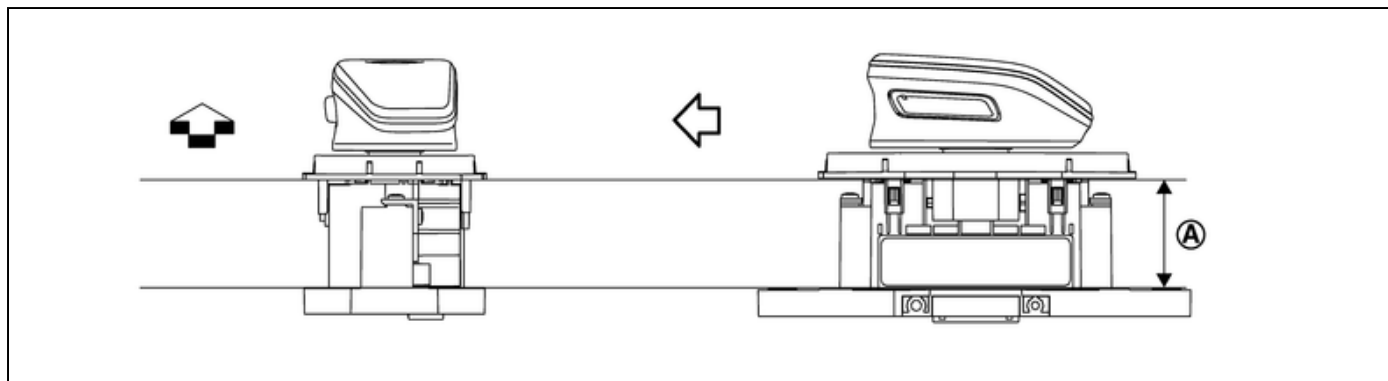
|                      |                         |  |  |  |  |
|----------------------|-------------------------|--|--|--|--|
| ①                    | Electric shift selector |  |  |  |  |
| ⌛: N·m (kg-m, in-lb) |                         |  |  |  |  |

# ELECTRIC SHIFT SELECTOR : Removal & Installation

LHD models

RPR-001932060

## CAUTION:



RPR-001932060-04-000379869



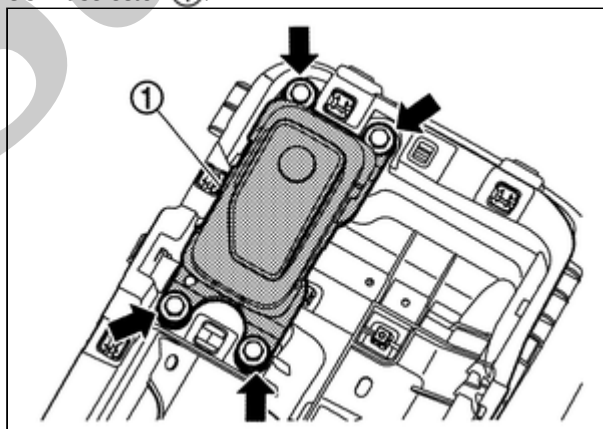
- As part ① in the figure contains a strong magnet, persons with an electro-medical apparatus should keep it away from his/her body. Otherwise it may cause the electro-medical apparatus to malfunction.
- Keep it away from magnetic objects such as magnetic cards and metal products (e.g. watches).
- Never subject the electric shift selector to impact by dropping or hitting, water splash or high humidity.

## Removal

1 Power switch OFF and disconnect the 12V battery cable from the negative terminal. Refer to [PRECAUTIONS FOR REMOVING BATTERY TERMINAL : Precautions](#).

2 Remove center console finisher and knee pad assembly. Refer to [Disassembly & Assembly](#).

3 Remove the mounting bolts of electric shift selector ①.



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4 Disconnect the electric shift sensor harness connector ①.