

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.

2014 NISSAN Titan King Cab OEM Service and Repair Workshop Manual

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1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

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

Is DTC P0D40-00 detected again?

YES>>

Replace On-board charger. Refer to [ON-BOARD CHARGER : Disassembly & Assembly](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0D4E	00	Battery charger high voltage battery output voltage sensor	Diagnosis condition	During normal charge
			Signal	DC voltage signal
			Threshold	When the measured value of the DC voltage is sticking to the sensor lower limit value
			Detection time	Max 100 seconds

POSSIBLE CAUSE

- On-board charger
- High voltage parts (Such as DC/DC converter, Li-ion battery and high voltage relay)

FAIL-SAFE

Normal charge is stopped

1. PRECONDITIONING

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE”, “EV/HEV”, “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.
2. Turn the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

3. Check that 12 V battery voltage is 11 V or more.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Perform normal charge for at least 120 seconds.
2. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” using CONSULT.

**NOTE:**

If a DTC other than “P0D4E-00” is detected, perform the trouble diagnosis for the detected DTC.

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 SELF-DIAGNOSIS OF VCM

 With CONSULT

1. Power switch ON.
2. Check “self-diagnostic result” in “EV/HEV” using CONSULT.

Is DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC.

NO>>

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2. PERFORM SELF-DIAGNOSIS OF LBC

 With CONSULT

1. Power switch ON.
2. Check “self-diagnostic result” in “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.

Is DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC.

NO>>

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3. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

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

Is DTC P0D4E-00 detected again?

YES>>

Replace On-board charger. Refer to [ON-BOARD CHARGER : Disassembly & Assembly](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0D4F	00	Battery charger high voltage battery output voltage sensor	Diagnosis condition	During normal charge
			Signal	DC voltage signal
			Threshold	When the measured value of the DC voltage is sticking to the sensor upper limit value
			Detection time	Max 100 seconds

POSSIBLE CAUSE

- On-board charger
- High voltage battery

FAIL-SAFE

Normal charge is stopped

1. PRECONDITIONING

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE”, “EV/HEV”, “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.
2. Turn the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

3. Check that 12 V battery voltage is 11 V or more.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Perform normal charge for at least 120 seconds.
2. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” using CONSULT.

**NOTE:**

If a DTC other than “P0D4F-00” is detected, perform the trouble diagnosis for the detected DTC.

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 SELF-DIAGNOSIS OF VCM

 With CONSULT

1. Power switch ON.
2. Check “self-diagnostic result” in “EV/HEV” using CONSULT.

Is DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC.

NO>>

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2. PERFORM SELF-DIAGNOSIS OF LBC

 With CONSULT

1. Power switch ON.
2. Check “self-diagnostic result” in “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.

Is DTC detected?

YES>>

Perform the trouble diagnosis for the detected DTC.

NO>>

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3. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

 With CONSULT

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

Is DTC P0D4F-00 detected again?

YES>>

Replace On-board charger. Refer to [ON-BOARD CHARGER : Disassembly & Assembly](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P0D53	00	Battery charger high voltage battery output current sensor	Diagnosis condition	During normal charge
			Signal	DC current signal
			Threshold	When the measured value of the DC current is sticking to the sensor lower limit value
			Detection time	Max 100 seconds

POSSIBLE CAUSE

On-board charger

FAIL-SAFE

Normal charge is stopped

1. PRECONDITIONING

1. Erase “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE”, “EV/HEV”, “HIGH VOLTAGE BATTERY” and “HIGH VOLTAGE BATTERY 2” using CONSULT.
2. Turn the power switch OFF with the driver's side door open, get out of the vehicle, close the driver's side door and wait for at least 4 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 while waiting.

3. Check that 12 V battery voltage is 11 V or more.

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2. PERFORM DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Perform normal charge for at least 120 seconds.
2. Check “self-diagnostic result” in “CHARGER/POWER DELIVERY MODULE” using CONSULT.

**NOTE:**

If a DTC other than “P0D53-00” is detected, perform the trouble diagnosis for the detected DTC.

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