

# 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 Service and Repair Manual

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## 1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

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 With CONSULT

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

Is DTC P0D53-00 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	
P0D54	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 upper limit value
			Detection time	Max 100 seconds

**POSSIBLE CAUSE**

On-board charger

**FAIL-SAFE**

Normal charge is stopped

## 1. PRECONDITIONING

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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.

&gt;&gt;

[GO TO 2](#)

## 2. PERFORM DTC CONFIRMATION PROCEDURE

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 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 “P0D54-00” is detected, perform the trouble diagnosis for the detected DTC.

Is DTC detected?

YES&gt;&gt;

Refer to [DTC Diagnosis Procedure](#).

NO-1&gt;&gt;

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

NO-2&gt;&gt;

Confirmation after repair: INSPECTION END

## 1. PERFORM DTC CONFIRMATION PROCEDURE AGAIN

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 With CONSULT

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

Is DTC P0D54-00 detected again?

YES>>

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

NO>>

INSPECTION END

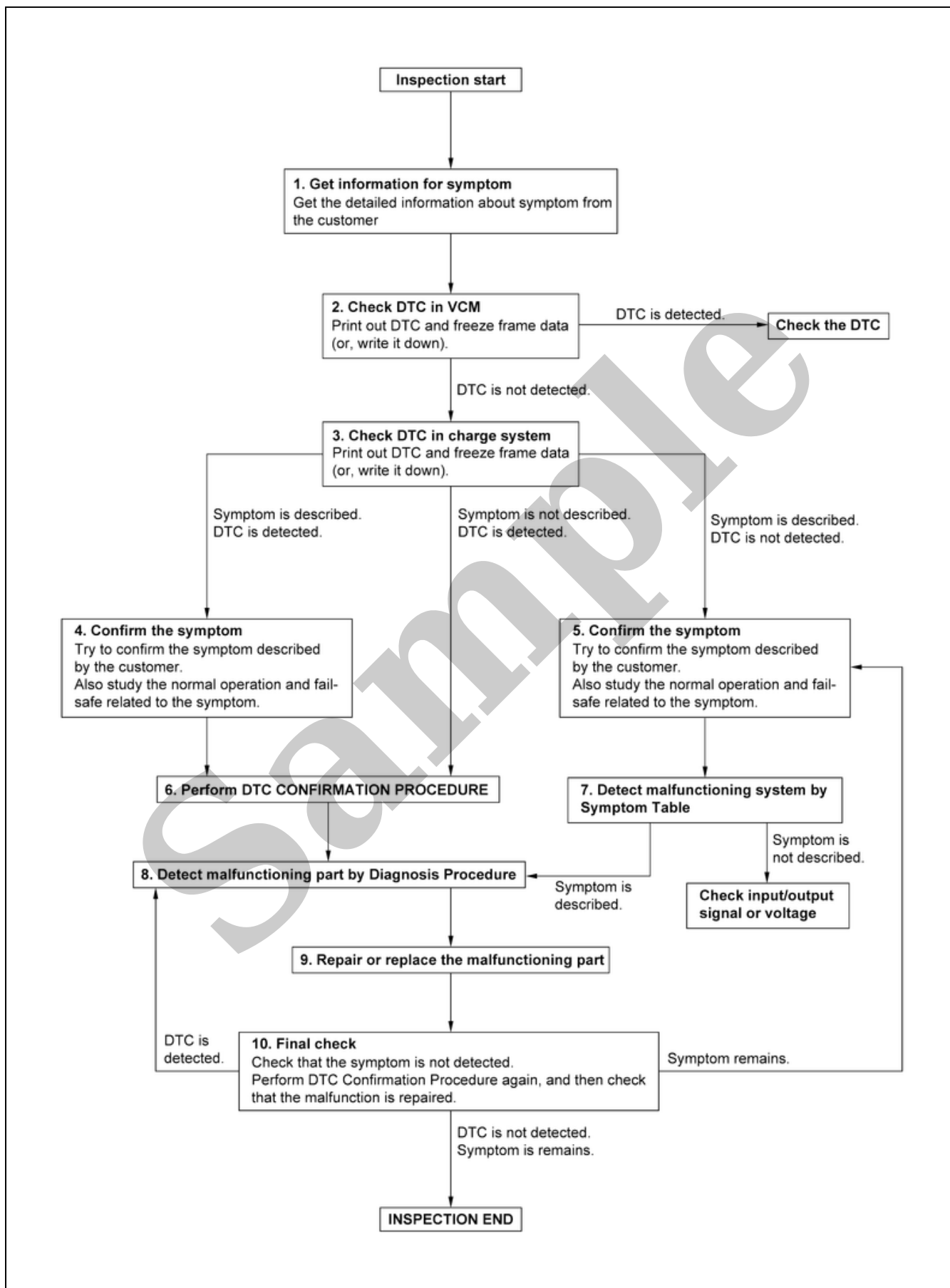
Sample

# Wiring Diagram

Click Link to [Wiring Diagram](#).

Sample

# OVERALL SEQUENCE



SIEMD-7198946-01-000377103

# DETAILED FLOW

# 1. GET INFORMATION FOR SYMPTOM

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Get the detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred) using the "Diagnostic Work Sheet".



## NOTE:

**In general, the way customers explanation of symptom differs from person to person, so it is important to fully understand the symptom and condition by conducting sufficient interviews. Use "Diagnostic Work Sheet" to systematize all the information for troubleshooting.**

- If there is a problem with the vehicle, use "Diagnostic Work Sheet A".
- Use "Diagnostic Work Sheet B" for problems related to charging, such as "cannot charge", "charging stops halfway", or "warning lamp turns on after charging".

Refer to [Diagnostic Work Sheet](#).

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[GO TO 2.](#)

## 2. CHECK DTC IN VCM

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Check DTC in VCM.

Are any DTCs detected?

YES>>

Check detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 3.](#)

## 3. CHECK DTC IN VEHICLE CHARGE SYSTEM

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1. Check DTC in vehicle charge system.

- VCM: Refer to [DTC Index](#).
- On-board charger: Refer to [DTC Index](#).
- DC/DC converter: Refer to [DTC Index](#).
- CPLC: Refer to [DTC Index](#).

2. When DTC is detected, perform the following procedure.

- Write DTC and freeze frame data.
- Erase DTC
- Investigate the relationship between the cause specified by DTC and the information of symptom from the customer. (It is effective to utilize the Symptom Table.) Refer to [Symptom Table](#).)

Are there any symptoms described and any DTC is detected?

Symptom is described, DTC is detected>>

[GO TO 4.](#)

Symptom is described, DTC is not detected>>

[GO TO 5.](#)



Symptom is not described, DTC is detected>>

[GO TO 6.](#)

## 4. CONFIRM THE SYMPTOM

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Try to confirm the symptom described by the customer.

Investigate the relationship between the cause specified by DTC and the information of symptom from the customer. (It is effective to utilize the Symptom Table. Refer to [Symptom Table](#).)

Verify relation between the symptom and the condition when the symptom is occurred.

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[GO TO 6.](#)

## 5. CONFIRM THE SYMPTOM

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Try to confirm the symptom described by the customer.

Also study whether it is the normal operation or fail-safe related to symptom.

- Fail-safe: Refer to [Fail-safe](#).
- Normal operation: Refer to [Symptom Description](#).

Diagnosis Work Sheet is useful to verify the incident.

Verify relation between the symptom and the condition when the symptom is detected.

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[GO TO 7.](#)

## 6. PERFORM DTC CONFIRMATION PROCEDURE

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Perform DTC CONFIRMATION PROCEDURE for the displayed DTC, and then check that DTC is detected again.



### NOTE:

- **Freeze frame data is useful if the DTC is not detected.**
- **Perform Component Function Check if DTC CONFIRMATION PROCEDURE does not included corresponded DTC Manual. This simplified check procedure is an effective alternative though DTC cannot be detected during this check.**
- **If the result of Component Function Check is NG, it is the same as the detection of DTC by DTC CONFIRMATION PROCEDURE.**

Is DTC detected?

YES>>

[GO TO 8.](#)

NO>>

Check according to the symptom cause simulation test. Refer to [Intermittent Incident](#).

## 7. DETECT MALFUNCTIONING SYSTEM BY SYMPTOM TABLE

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Detect malfunctioning system according to symptom index based on confirmation of symptom in step 4, and determine the trouble diagnosis order based on possible causes and symptoms. Refer to [Symptom Table](#).

Is the malfunction system detected?

YES>>

[GO TO 9.](#)

NO>>

Monitor output data from related sensors or check voltage of related terminals using CONSULT. Refer to input output specified value of corresponded parts.

## **8. DETECT MALFUNCTIONING PART BY DIAGNOSIS PROCEDURE**

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Inspect according to Diagnosis Procedure of the system.

Is a malfunctioning part detected?

YES>>

[GO TO 9.](#)

NO>>

Check according to the symptom cause simulation test. Refer to [Intermittent Incident](#).

## **9. REPAIR OR REPLACE MALFUNCTIONING PART**

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1. Repair or replace the identified malfunctioning part.
2. Reconnect parts or connectors disconnected during Diagnosis Procedure again after repair and replacement.
3. Check DTC. If DTC is displayed, erase it.

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[GO TO 10.](#)

## **10. FINAL CHECK**

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When DTC was detected in step 3, perform DTC CONFIRMATION PROCEDURE or Component Function Check again, and then check that the malfunction is completely repaired.

When symptom was described from the customer, refer to confirmed symptom in step 3 or 4, and check that the symptom is not detected.

Is DTC detected and does symptom remain?

YES-1 (DTC is detected) >>

[GO TO 8.](#)

YES-2 (Symptom remains) >>

[GO TO 5.](#)

NO>>

Before returning the vehicle to the customer, always erase all DTCs.