

# 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 Navara / Frontier Double Cab OEM Service and Repair Workshop Manual

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**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detecting condition	
U2143	F5	CAN communication error (VCM/HCM)	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	Signal cannot be sent to VCM.
			Detection time	2 seconds

**POSSIBLE CAUSE**

- CAN communication circuit
- VCM

**FAIL-SAFE**

DC/DC converter output voltage is fixed

## 1. PRECONDITIONING

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- Press 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.

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

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## 2. PERFORM DTC CONFIRMATION PROCEDURE

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 With CONSULT

1. Erase “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.
2. Set the vehicle to READY and wait at least 2 seconds.
3. Check “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.

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 DTC CONFIRMATION PROCEDURE AGAIN

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 With CONSULT

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

Is DTC U2143-F5 detected again?

YES>>

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

Sample

**DTC DETECTION LOGIC**

DTC		CONSULT screen terms	DTC detecting condition	
U2143	F6	CAN communication error (VCM/HCM)	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	An error signal is received from VCM.
			Detection time	2 seconds

**POSSIBLE CAUSE**

- CAN communication circuit
- VCM

**FAIL-SAFE**

Not applicable

Sample

## 1. PRECONDITIONING

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- Press 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.

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

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## 2. PERFORM DTC CONFIRMATION PROCEDURE

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 With CONSULT

1. Erase “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.
2. Set the vehicle to READY and wait at least 2 seconds.
3. Check “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.

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 DTC CONFIRMATION PROCEDURE AGAIN

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 With CONSULT

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

Is DTC U2143-F6 detected again?

YES>>

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

Sample

## DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
U2143	F7	CAN communication error (VCM/HCM)	Diagnosis condition	READY, AUTO ACC or power switch ON
			Signal	—
			Threshold	An error signal is received from VCM.
			Detection time	2 seconds

## POSSIBLE CAUSE

- CAN communication circuit
- VCM

## FAIL-SAFE

- When the high voltage is below 30 V: The DC/DC converter is set to sleep state
- When the high voltage is more than 30 V: The DC/DC converter state is fixed to the state it was in before the DTC occurred



## 1. PRECONDITIONING

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- Press 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.

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

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## 2. PERFORM DTC CONFIRMATION PROCEDURE

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 With CONSULT

1. Erase “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.
2. Set the vehicle to READY and wait at least 2 seconds.
3. Check “self-diagnostic result” in “DC/DC CONVERTER” using CONSULT.

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 DTC CONFIRMATION PROCEDURE AGAIN

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 With CONSULT

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

Is DTC U2143-F7 detected again?

YES>>

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

NO>>

INSPECTION END

Sample