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2016 Nissan Versa Note Service and Repair Manual

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DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "U2118-83" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

Perform diagnosis of applicable. Refer to DTC Index.

NO>>

GO TO 2 .

2. CHECK INTELLIGENT KEY UNIT SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "INTELLIGENT KEY".

Is any DTC detected?

YES>>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to DTC Index.

NO>>

Replace the around view monitor control unit. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U2143	82	CAN comm err (VCM/HCM)	Diagnosis condition	When vehicle is READY
			Signal (terminal)	—
			Threshold	Around view monitor control unit detects an error signal that is received from VCM via CAN communication
			Diagnosis delay time	—

POSSIBLE CAUSE

VCM

FAIL-SAFE

The following systems are canceled.

- ProPILOT Park

Confirmation Procedure

1. CHECK DTC PRIORITY

If DTC "U2143-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index.

NO >>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Perform "All DTC Reading" with CONSULT.

3. Check if the "U2143-82" is detected as the current malfunction in "Self Diagnostic Result" of "AROUND VIEW MONITOR".

Is "U2143-82" detected as the current malfunction?

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

DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "U2143-82" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index.

NO >>

GO TO 2 .

2. CHECK VCM SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "EV/HEV".

Is any DTC detected?

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to DTC Index.

NO >>

Replace the around view monitor control unit. Refer to Removal and Installation.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
U2143	83	CAN comm err (VCM/HCM)	Diagnosis condition	When vehicle is READY
			Signal (terminal)	—
			Threshold	Around view monitor control unit detects an error signal that is received from VCM via CAN communication
			Diagnosis delay time	—

POSSIBLE CAUSE

VCM

FAIL-SAFE

The following systems are canceled.

- ProPILOT Park

1. CHECK DTC PRIORITY

If DTC "U2143-83" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES >>

Perform diagnosis of applicable. Refer to DTC Index.

NO >>

GO TO 2 .

2. PERFORM DTC CONFIRMATION PROCEDURE

1. Set the vehicle to READY.

2. Perform "All DTC Reading" with CONSULT.

3. Check if the "U2143-83" is detected as the current malfunction in "Self Diagnostic Result" of "AROUND VIEW MONITOR".

Is "U2143-83" detected as the current malfunction?

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

DTC Diagnosis Procedure

1. CHECK DTC PRIORITY

If DTC "U2143-83" is displayed with Network-DTC, first diagnose the Network-DTC.

<u>Is applicable DTC detected?</u>

YES >>

Perform diagnosis of applicable. Refer to <u>DTC Index</u>.

NO >>

<u>GO TO 2</u> .

2. CHECK VCM SELF-DIAGNOSIS RESULTS

Check if any DTC is detected in "Self Diagnostic Result" of "EV/HEV".

<u>Is any DTC detected?</u>

YES >>

Perform diagnosis on the detected DTC and repair or replace the malfunctioning parts. Refer to <u>DTC Index</u>.

NO >>

Replace the around view monitor control unit. Refer to <u>Removal and Installation</u>.

DTC DETECTION LOGIC

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control units, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN-H, CAN-L) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads the required data only.

CAN communication signal chart. Refer to CAN Communication Signal Chart.

DTC		CONSULT screen terms	DTC detection condition		
U2143	87	CAN comm err (VCM/HCM)	Diagnosis condition	When vehicle is READY	
			Signal (terminal)	CAN communication signal	
			Threshold	If around view monitor control unit is not transmitting or receiving CAN communication signal	
			Diagnosis delay time	2 seconds or more	

> **NOTE:**
> **If "U2143-87" is detected, first diagnose the CAN communication system.**

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

- Rear/front view is black screen (Bird-eye/Side view is displayed).

- Rear view is not displayed even if shift lever is in R position.

- The following systems are canceled.

    - MOD (Moving Object Detection) function

    - Vehicle speed & vehicle-to-vehicle control function

    - Lane keep function[1]

    - Lane keep function[2]

    - Lane change support function

    - Overtaking support function

    - Route driving support function

    - AEB

    - RAB

    - I-LI

    - I-BSI

*1: ProPILOT Assist 2.0 display is green

*2: ProPILOT Assist 2.0 display is blue

> **NOTE:**
> **With the detection of "U2143-87" some systems do not perform the fail-safe operation. A system controlling based on a signal received from the control unit performs fail-safe operation when the communication with the ADAS control unit 2 becomes inoperable.**