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2017 NISSAN Titan Crew Cab OEM Service and Repair Workshop Manual

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DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition		
B14A1	A2	POWER SUPPLY VOLT	Diagnosis condition	When power switch is ON	
			Signal (terminal)	Battery power supply (#13)	
			Threshold	7.0 V or less	
			Diagnosis delay time	60 seconds or more	

POSSIBLE CAUSE

- Power supply and ground circuit of HD map module are abnormal

- HD map module is abnormal

FAIL-SAFE

The following systems are canceled.

- Lane keeping function[*]

- Lane change support function

- Overtaking support function

- Route driving support function

*: ProPILOT Assist 2.0 display is blue

1. DTC CONFIRMATION PROCEDURE

1. Turn power switch ON and wait 60 seconds or more.

2. Perform "All DTC Reading" with CONSULT.

3. Check if "B14A1-A2" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "B14A1-A2" detected as 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

1. CHECK POWER SUPPLY AND GROUND CIRCUIT OF HD MAP MODULE

Check power supply and ground circuit of HD map module. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Replace HD map module. Refer to Removal and Installation.

NO>>

Replace or repair malfunctioning part.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition		
B14A1	A3	POWER SUPPLY VOLT	Diagnosis condition	When power switch is ON	
			Signal (terminal)	Battery power supply　(#13)	
			Threshold	16.4 V or less	
			Diagnosis delay time	60 seconds or more	

POSSIBLE CAUSE

- Connector, harness, or fuse is abnormal

- Power supply and ground circuit of HD map module are abnormal

- HD map module is abnormal

FAIL-SAFE

The following systems are canceled.

- Lane keeping function[*]

- Lane change support function

- Overtaking support function

- Route driving support function

*: ProPILOT Assist 2.0 display is blue

Confirmation Procedure

1. DTC CONFIRMATION PROCEDURE

1. Turn power switch ON and wait 60 seconds or more.

2. Perform "All DTC Reading" with CONSULT.

3. Check if "B14A1-A3" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "B14A1-A3" detected as 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

1. CHECK POWER SUPPLY AND GROUND CIRCUIT OF HD MAP MODULE

Check power supply and ground circuit of HD map module. Refer to Diagnosis Procedure.

Is the inspection result normal?

YES>>

Replace HD map module. Refer to Removal and Installation.

NO>>

Replace or repair malfunctioning part.

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
B14A3	19	USB memory data	Diagnosis condition	When power switch is ON
			Signal (terminal)	USB terminal
			Threshold	Receive unspecified data 5 times straight
			Diagnosis delay time	1 second or less

POSSIBLE CAUSE

HD map module is abnormal

FAIL-SAFE

None

Confirmation Procedure

1. DTC CONFIRMATION PROCEDURE

1. Turn power switch ON.

2. Select "Work Support" mode of "HD MAP", and perform USB map update.

3. Perform "All DTC Reading" with CONSULT.

4. Check if "B14A3-19" is detected as current malfunction in self-diagnosis result of "HD MAP".

Is DTC "B14A3-19" detected as 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 THE USB FOR MAP UPDATE

Check that USB used for updating USB map is correct.

<u>Is USB used correct?</u>

YES>>

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NO>>

After erasing DTC, use the correct USB to update USB map.

2. REPLACE USB

1. Erase the DTC.

2. Update USB map using another USB.

<u>Is USB map update completed normally?</u>

YES>>

INSPECTION END

NO>>

Replace HD map module. Refer to [Removal and Installation](#).