

# Your Ultimate Source for OEM Repair Manuals

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2019 NISSAN Altima (Thailand) Service and Repair Manual

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DTC		CONSULT screen terms	DTC detection condition	
		(Trouble diagnosis content)		
			Diagnosis condition	_
U2443	57	CAN comm err (VCM/HCM)  [Controller area network communication error (VCM/HCM)]	Signal (terminal)	_
			Threshold	MAC communication error
			Diagnosis delay time	_

# **POSSIBLE CAUSE**

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- VCM

# **FAIL-SAFE**

The following systems are canceled.

- 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-FCW
- I-LI
- I-BSI
- TSR
- I-DA
- \*1: ProPILOT Assist 2.0 display is green
- \*2: ProPILOT Assist 2.0 display is blue

# **CONFIRMATION PROCEDURE**

## 1. CHECK DTC PRIORITY

If DTC "U2443–57" is displayed with DTC "U1327-52" or DTC "U1327-54", first perform the trouble diagnosis for DTC "U1327-52" or "U1327-54".

#### <u>Is "U1327-52" or DTC"U1327-54" detected?</u>

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: Refer to <u>DTC Description</u>.
- U1327-54: Refer to <u>DTC Description</u>.

NO>>

GO TO 2.

## 2. CHECK MAC DIAGNOSIS

**(H)**With CONSULT

- 1. Power switch ON.
- 2. Perform "MAC Diagnosis" mode of "ICC/ADAS 2" using CONSULT.

Is "U2443-57" 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

#### 1. CHECK DTC PRIORITY

If DTC "U2443-57" is displayed with DTC "U1327-52" or "U1327-54", first perform the trouble diagnosis for DTC "U1327-52" or "U1327-54".

<u>Is DTC "U1327-52" or "U1327-54" detected?</u>

YES>>

Perform diagnosis of applicable. Refer to the following.

- U1327-52: Refer to <u>DTC Description</u>(Without ProPILOT Assist 2.0) or <u>DTC Description</u>(With ProPILOT Assist 2.0).
- U1327-54: Refer to DTC Description(Without ProPILOT Assist 2.0) or DTC Description(With ProPILOT Assist 2.0).

NO>>

GO TO 2.

#### 2. CHECK MAC DIAGNOSIS

**(P)**With CONSULT

Perform "MAC Diagnosis" mode of "ICC/ADAS 2" using CONSULT.

<u>Is DTC U2443-57" detected with DTC "U2140-57", "U2143-57", "U214F-57", "U2175-57", "U2176-57", "U244F-57", "U2465-57", "U2475-57" and "U2476-57" at the same time?</u>

YES (all DTC codes are detected at the same time)>>

Replace the ADAS control unit 2. Refer to <u>Removal and Installation</u>(Without ProPILOT Assist 2.0) or <u>Removal and Installation</u>(With ProPILOT Assist 2.0).

NO (all DTC codes are not detected at the same time)>>

GO TO 3.

## 3. CHECK CAN DIAGNOSIS

**(II)**With CONSULT

Perform "CAN Diag".

Is the inspection result normal?

YES>>

Contact Techline and report the vehicle condition.

NO>>

Repair or replace root cause.

DTC		CONSULT screen terms	DTC detection condition	
		(Trouble diagnosis content)		
			Diagnosis condition	_
U2443	57	CAN comm err (VCM/HCM)  [Controller area network communication error (VCM/HCM)]	Signal (terminal)	_
			Threshold	MAC communication error
			Diagnosis delay time	_

## **POSSIBLE CAUSE**

- MAC communication error
- ADAS control unit 2 used in other vehicles is installed in the vehicle
- ADAS control unit 2
- VCM

## **FAIL-SAFE**

The following systems are canceled.

- Vehicle-to-vehicle distance control mode
- Steering wheel assistance function
- · Conventional (fixed speed) cruise control mode
- AEB
- RAB
- I-FCW
- I-LI
- I-BSI
- TSR
- I-DA

## **CONFIRMATION PROCEDURE**

# 1. CHECK DTC PRIORITY

If DTC "U2443–57" is displayed with DTC "U1327-52" or DTC "U1327-54", first perform the trouble diagnosis for DTC "U1327-52" or "U1327-54".

Is "U1327-52" or DTC"U1327-54" detected?

YES>>

Perform diagnosis of applicable. Refer to the following.

• U1327-52: Refer to <u>DTC Diagnosis Procedure</u>.

• U1327-54: Refer to <u>DTC Description</u>.

NO>>

GO TO 2.

# 2. CHECK MAC DIAGNOSIS

# **With CONSULT**

- 1. Power switch ON.
- 2. Perform "MAC Diagnosis" mode of "ICC/ADAS 2" using CONSULT.

<u>Is "U2443-57" detected as the current malfunction?</u>

YES>>

Refer to DTC Diagnosis Procedure.

NO-1 >>

To check malfunction symptom before repair: Refer to <u>Intermittent Incident</u>.

NO-2 >>

Confirmation after repair: INSPECTION END



DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F59	04	EPS control unit	Diagnosis condition	<ul> <li>When vehicle is READY</li> <li>When MAIN switch of ProPILOT Assist 2.0 system is ON</li> </ul>	
GII 55	0-1	(Electric power steering control unit)	Signal (terminal)	CAN communication signal	
		,	Threshold	If the EPS control unit is malfunction	
			Diagnosis delay time	1 second or less	

## **POSSIBLE CAUSE**

- · EPS control unit
- ADAS control unit 2

# **FAIL-SAFE**

The following systems are canceled.

- 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-FCW
- I-LI
- I-BSI
- TSR
- \*1: ProPILOT Assist 2.0 display is green
- \*2: ProPILOT Assist 2.0 display is blue

# **CONFIRMATION PROCEDURE**

## 1. CHECK DTC PRIORITY

If DTC "C1F59-04" is displayed with Network-DTC, first diagnose the Network-DTC.

## Is applicable DTC detected?

YES>>

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

NO>>

<u>GO TO 2</u>.

## 2. PERFORM DTC CONFIRMATION PROCEDURE

- 1. Set the vehicle to READY.
- 2. Turn the MAIN switch of ProPILOT Assist 2.0 system ON.
- 3. Perform "All DTC Reading" with CONSULT.
- 4. Check if the "C1F59-04" is detected as the current malfunction in "Self Diagnostic Result" of "ICC/ADAS 2".

#### <u>Is "C1F59-04" detected as the current malfunction?</u>

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 DTC PRIORITY

If DTC "C1F59-04" is displayed with Network-DTC, first diagnose the Network-DTC.

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

YES>>

Perform diagnosis of applicable. Refer to <a href="https://docs.org/docs.org/DTC Index">DTC Index</a>(Without ProPILOT Assist 2.0) or <a href="https://docs.org/DTC Index">DTC Index</a>(With ProPILOT Assist 2.0).

NO>>

GO TO 2.

#### 2. PERFORM SELF-DIAGNOSIS OF EPS CONTROL UNIT

Check if any DTC is detected in "Self Diagnostic Result" of "EPS/DAST 3".

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 ADAS control unit 2. Refer to <u>Removal and Installation</u>(Without ProPILOT Assist 2.0) or <u>Removal and Installation</u>(With ProPILOT Assist 2.0).

DTC		CONSULT screen terms (Trouble diagnosis content)	DTC detection condition		
C1F59 04	04	EPS control unit	Diagnosis condition	<ul> <li>When vehicle is READY</li> <li>When MAIN switch of ProPILOT Assist system is ON</li> </ul>	
CITSS	04	(Electric power steering control unit)	Signal (terminal)	CAN communication signal	
		,	Threshold	If the EPS control unit is malfunction	
			Diagnosis delay time	1 second or less	

## **POSSIBLE CAUSE**

- · EPS control unit
- ADAS control unit 2

# **FAIL-SAFE**

The following systems are canceled.

- Vehicle-to-vehicle distance control mode
- Conventional (fixed speed) cruise control mode
- Steering assistance function
- AEB
- RAB
- I-FCW
- I-LI
- I-BSI
- TSR
- I-DA

# **CONFIRMATION PROCEDURE**

# 1. CHECK DTC PRIORITY

If DTC "C1F59-04" is displayed with Network-DTC, first diagnose the Network-DTC.

Is applicable DTC detected?

YES>>

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

NO>>