

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.

2013 NISSAN Primera Sedan OEM Service and Repair Workshop Manual

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1. PREPARATION BEFORE OPERATION

If another "Confirmation Procedure" was performed immediately before this task, always power switch OFF exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter turns off before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the auto ACC function.

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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P0CC1-81 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. CHECK FOR DTC RELATED TO THE FRONT TRACTION MOTOR OIL TEMPERATURE SENSOR

 With CONSULT

1. Power switch ON.
2. Check "Self Diagnostic Result" of "MOTOR CONTROL".

Is DTC related to the front traction motor oil temperature sensor detected?

YES>>

Inspect the oil temperature sensor circuit of the front traction motor. Refer to [Diagnosis Procedure](#) .

NO>>

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2. INSPECTION OF THE OIL PUMP CIRCUIT OF THE FRONT TRACTION MOTOR

Inspect the oil pump circuit of the front traction motor. Refer to [Diagnosis Procedure](#) .

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INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0CC1	87	Drive Motor A Coolant Pump Control	Diagnosis condition	READY state
			Signal	Front traction motor oil pump signal
			Threshold	An error was detected in LIN communication at the front traction motor oil pump.
			Diagnosis delay time	Within 10 seconds

POSSIBLE CAUSE

- Wiring harness or connector
(Disconnection or short circuit in the oil temperature sensor of the front traction motor)
(Disconnection or short circuit in the oil pump of the front traction motor)
- Front traction motor
(Oil temperature sensor of the front traction motor)
(Oil pump of the front traction motor)
- Inverter (front)

FAIL-SAFE

The driving torque of the front traction motor is limited to 30%.

1. PREPARATION BEFORE OPERATION

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CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the auto ACC function.

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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P0CC1-87 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. CHECK FOR DTC RELATED TO THE FRONT TRACTION MOTOR OIL TEMPERATURE SENSOR

 With CONSULT

1. Power switch ON.
2. Check "Self Diagnostic Result" of "MOTOR CONTROL".

Is DTC related to the front traction motor oil temperature sensor detected?

YES>>

Inspect the oil temperature sensor circuit of the front traction motor. Refer to [Diagnosis Procedure](#) .

NO>>

[GO TO 2](#) .

2. INSPECTION OF THE OIL PUMP CIRCUIT OF THE FRONT TRACTION MOTOR

Inspect the oil pump circuit of the front traction motor. Refer to [Diagnosis Procedure](#) .

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INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P2D3B	92	Hybrid/EV Discharge System	Diagnosis condition	At shutdown (after high voltage relay opens)
			Signal	—
			Threshold	A discharge error was detected at the smoothing capacitor.  NOTE: Discharge of the smoothing capacitor is performed by IGBT switching. If IGBT switching stopped as a result of a different malfunction, the discharge process cannot be performed and P2D3B-92 is also detected as a side-effect of the malfunction.
			Diagnosis delay time	Within 3 seconds

POSSIBLE CAUSE

- Inverter (front)
- System main relay

FAIL-SAFE

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1. PREPARATION BEFORE OPERATION

If another "Confirmation Procedure" was performed immediately before this task, always power switch OFF exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter turns off before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the auto ACC function.

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2. PERFORM THE DTC CONFIRMATION PROCEDURE

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check the DTC.

Is "P2D3B-92 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. DTC CHECK (MOTOR CONTROL)

 With CONSULT

1. Set the vehicle to READY and wait for at least 10 seconds.
2. Check "Self Diagnostic Result" under "MOTOR CONTROL".

Is a DTC P2D3B-92 detected at the same time as another DTC?

YES>>

Check the DTC Inspection Priority Chart, and perform diagnosis for the DTC with the higher inspection priority. Refer to [DTC Inspection Priority Chart](#).

NO>>

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2. CHECK FOR DTC RELATED TO THE HIGH VOLTAGE SYSTEM

 With CONSULT

Check the DTCs related to the high voltage system.

Is a DTC related to the high voltage system other than the inverter (front) detected?

YES>>

Check the detected DTC.

NO>>

Replace the inverter (front). Refer to [INVERTER \(FRONT\) : Removal & Installation](#).

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P3081	44	Resolver Offset Value Error	Diagnosis condition	At inverter (front) start
			Signal	—
			Threshold	Any of the following was detected. <ul style="list-style-type: none"> • An error in the value written to internal memory • No data was written to internal memory • An error value was written during work for writing to internal memory
			Diagnosis delay time	Within 1 second

POSSIBLE CAUSE

- Inverter (front)
- Resolver offset value was not written or there was an error in the work.

FAIL-SAFE

Change the resolver offset value to the default value. This reduces torque because optimal control of the rotor position is not possible.