

# 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.

## 2011 NISSAN Grand Livina OEM Service and Repair Workshop Manual

[Go to manual page](#)

## 1. PERFORM SELF-DIAGNOSIS OF VCM

---

 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is DTC detected other than P102D-96?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2](#) .

## 2. CHECK ELECTRIC WATER PUMP 1 CIRCUIT

---

Check electric water pump 1 circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3](#) .

NO>>

Repair or replace error-detected parts.

## 3. PERFORM CONFIRMATION PROCEDURE AGAIN

---

1. Erase DTC.

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

Is DTC P102D-96 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P102D	98	Electric water pump	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An overheat signal from electric water pump 1 is received
			Detection time	—

POSSIBLE CAUSE

Electric water pump 1

FAIL-SAFE

Not applicable

## 1. PRECONDITIONING

---

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

**When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.**

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 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 during the standby state.

**If an operation is performed, wait an additional 5 minutes from that time.**

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

>>

[GO TO 2](#) .

## 2. PERFORM DTC CONFIRMATION PROCEDURE-1

---

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO>>

[GO TO 3](#) .

## 3. PERFORM DTC CONFIRMATION PROCEDURE-2

---

 With CONSULT

1. Set the vehicle to READY and wait at least 60 seconds.
2. Check self-diagnostic result in “EV/HEV”.

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

Sample

## 1. PERFORM SELF-DIAGNOSIS OF VCM

---

 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is DTC detected other than P102D-98?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2](#) .

## 2. CHECK ELECTRIC WATER PUMP 1 CIRCUIT

---

Check electric water pump 1 circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3](#) .

NO>>

Repair or replace error-detected parts.

## 3. PERFORM CONFIRMATION PROCEDURE AGAIN

---

1. Erase DTC.

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

Is DTC P102D-98 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P159A	93	Electric water pump	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An error signal from electric water pump 1 is received
			Detection time	—

POSSIBLE CAUSE

Electric water pump 1

FAIL-SAFE

Not applicable

## 1. PRECONDITIONING

---

1. Press the power switch for at least 2 seconds to turn the high voltage system OFF and then check that the charging status indicator is not illuminated.

**NOTE:**

**When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.**

2. After the high voltage system is turned OFF, open the driver's side door, get out of the vehicle, close the driver's side door and wait for at least 5 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 during the standby state.

**If an operation is performed, wait an additional 5 minutes from that time.**

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

>>

[GO TO 2](#)

## 2. PERFORM DTC CONFIRMATION PROCEDURE-1

---

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO>>

[GO TO 3](#)

## 3. PERFORM DTC CONFIRMATION PROCEDURE-2

---

 With CONSULT

1. Set the vehicle to READY and wait at least 60 seconds.
2. Check self-diagnostic result in “EV/HEV”.

Is DTC detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).

NO>>

Confirmation after repair: INSPECTION END

## 1. PERFORM SELF-DIAGNOSIS OF VCM

---

 With CONSULT

Check self-diagnostic result in “EV/HEV”.

Is DTC detected other than P159A-93?

YES>>

Perform diagnosis for detected DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2](#)

## 2. CHECK ELECTRIC WATER PUMP 1 CIRCUIT

---

Check electric water pump 1 circuit. Refer to [Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 3](#)

NO>>

Repair or replace error-detected parts.

## 3. PERFORM CONFIRMATION PROCEDURE AGAIN

---

1. Erase DTC.

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

Is DTC P159A-93 detected again?

YES>>

Replace VCM. Refer to [VCM : Removal & Installation](#).

NO>>

INSPECTION END

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P159A	96	Electric water pump	Diagnosis condition	Power switch ON
			Signal	—
			Threshold	An error signal from electric water pump 1 is received
			Detection time	—

POSSIBLE CAUSE

Electric water pump 1

FAIL-SAFE

Not applicable