

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.

2010 NISSAN Patrol OEM Service and Repair Workshop Manual

[Go to manual page](#)

With ProPILOT Assist

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

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Press the CANCEL switch for at least 10 seconds and after that wait least 10 seconds without pressing the CANCEL switch.
3. Press the RES+ switch for at least 10 seconds and after that wait least 10 seconds without pressing the RES+ switch.
4. Press the SET- switch for at least 10 seconds and after that wait least 10 seconds without pressing the SET- switch.
5. Press the DISTANCE switch for at least 10 seconds and after that wait least 10 seconds without pressing the DISTANCE switch.
6. Turn ProPILOT Assist switch ON and wait at least 10 seconds.
7. Wait for at least 60 seconds after finishing the above procedure.
8. 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>>

With ProPILOT Assist 2.0

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

 With CONSULT

1. Power switch ON and wait at least 10 seconds.
2. Press the CANCEL switch for at least 10 seconds and after that wait least 10 seconds without pressing the CANCEL switch.
3. Press the RES+ switch for at least 10 seconds and after that wait least 10 seconds without pressing the RES+ switch.
4. Press the SET- switch for at least 10 seconds and after that wait least 10 seconds without pressing the SET- switch.
5. Press the DISTANCE switch for at least 10 seconds and after that wait least 10 seconds without pressing the DISTANCE switch.
6. Press the LANE CHANGE switch for at least 10 seconds and after that wait least 10 seconds without pressing the LANE CHANGE switch.
7. Turn ProPILOT Assist 2.0 switch ON and wait at least 10 seconds.
8. Wait for at least 60 seconds after finishing the above procedure.
9. 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

With ProPILOT Assist

1. CHECK PROPILOT ASSIST STEERING SWITCH CIRCUIT

Check ProPILOT Assist steering switch circuit. Refer to [DTC Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2](#)

NO>>

Repair or replace error-detected parts.

2. PERFORM CONFIRMATION PROCEDURE AGAIN

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

Is DTC P1564-00 detected again?

YES>>

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

NO>>

INSPECTION END

With ProPILOT Assist 2.0

1. CHECK PROPILOT ASSIST 2.0 STEERING SWITCH CIRCUIT

Check ProPILOT Assist 2.0 steering switch circuit. Refer to [DTC Diagnosis Procedure](#).

Is the inspection result normal?

YES>>

[GO TO 2](#)

NO>>

Repair or replace error-detected parts.

2. PERFORM CONFIRMATION PROCEDURE AGAIN

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

Is DTC P1564-00 detected again?

YES>>

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

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P12A8	08	Brake switch	Diagnosis condition	During cruise control
			Signal	CAN communication
			Threshold	Abnormal drive brake information is received from the chassis control module or signal cannot be received.
			Detection time	—

POSSIBLE CAUSE

- CAN communication circuit
- Electrically-driven intelligent brake unit
- ABS actuator and electric unit (control unit)
- VCM

FAIL-SAFE

Cruise control (ProPILOT Assist/ProPILOT Assist 2.0) operation prohibited

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

 With CONSULT

1. Set the vehicle to READY.
2. Perform driving using the cruise control.
3. Depress the brake pedal several times while paying close attention to the surrounding conditions.
4. 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

1. CHECK CAN COMMUNICATION CIRCUIT

Perform trouble diagnosis for CAN communication circuit. Refer to [Trouble Diagnosis Flow Chart](#).

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace error-detected parts.

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detecting condition	
P1536	00	Brake switch	Diagnosis condition	Power switch ON
			Signal	CAN communication
			Threshold	An abnormal stop lamp switch signal from the BCM is received
			Detection time	—

POSSIBLE CAUSE

- CAN communication
- BCM

FAIL-SAFE

Not applicable

Sample