

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.

2004 NISSAN Patrol LWB OEM Service and Repair Workshop Manual

[Go to manual page](#)

1. PRECONDITIONING

1. Pull the parking brake switch.

**NOTE:**

Check to make sure that the parking brake switch indicator is turned ON.

2. Power switch OFF.
3. Get out of the vehicle and close all doors.
4. Wait 65 seconds or more.


**NOTE:**

- **Check to make sure that the parking brake switch indicator is turned OFF.**
- **If the rear brake calipers are hot, wait up to an hour until parking brake switch indicator on the switch turns OFF. Once indicator on the switch turns OFF, move to next step.**

>>

[GO TO 2.](#)

2. DTC REPRODUCTION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Perform self-diagnosis for “EPS/DIRECT ADAPTIVE STEERING 3”.

Is DTC “C161E-82” detected?

YES>>

Proceed to diagnosis procedure. 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. PERFORM ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAGNOSIS

 With CONSULT

1. Power switch OFF to ON.
2. Perform self-diagnosis for "ABS".

Is any DTC detected?

YES>>

Check the DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. CHECK CONNECTOR AND TERMINAL

1. Power switch OFF.
2. Disconnect ABS actuator and electric unit (control unit) harness connector.
3. Disconnect power steering control module harness connector.
4. Check the connector for disconnection or looseness.
5. Check the terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace harness, connector, or terminal, securely lock the connector.

3. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Connect ABS actuator and electric unit (control unit) harness connector.
2. Connect power steering control module harness connector.
3. Power switch OFF to ON.
4. Erase self-diagnostic results for "EPS/DIRECT ADAPTIVE STEERING 3".
5. Pull the parking brake switch.



NOTE:

Check to make sure that the parking brake switch indicator is turned ON.

6. Power switch OFF.

7. Get out of the vehicle and close all doors.

8. Wait 65 seconds or more.



NOTE:

- Check to make sure that the parking brake switch indicator is turned OFF.
- If the rear brake calipers are hot, wait up to an hour until parking brake switch indicator on the switch turns OFF. Once indicator on the switch turns OFF, move to next step.

9. Set the vehicle to READY.

CAUTION:

Never drive the vehicle.

10. Perform self-diagnosis for “EPS/DIRECT ADAPTIVE STEERING 3”.

Is DTC “C161E-82” detected?

YES>>

Replace the EPS Control unit. Refer to [Removal & Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C161E	83	Anti-lock braking system	Diagnosis condition	When power switch is ON.
			Signal (terminal)	CAN communication signal
			Threshold	When a malfunction is detected in ABS actuator and electric unit (control unit).
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- CAN communication line
- ABS actuator and electric unit (control unit)
- Power steering control module

FAIL-SAFE

Normal state

1. PRECONDITIONING

1. Pull the parking brake switch.

**NOTE:**

Check to make sure that the parking brake switch indicator is turned ON.

2. Power switch OFF.
3. Get out of the vehicle and close all doors.
4. Wait 65 seconds or more.

**NOTE:**

- **Check to make sure that the parking brake switch indicator is turned OFF.**
- **If the rear brake calipers are hot, wait up to an hour until parking brake switch indicator on the switch turns OFF. Once indicator on the switch turns OFF, move to next step.**

>>

[GO TO 2.](#)

2. DTC REPRODUCTION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Perform self-diagnosis for “EPS/DIRECT ADAPTIVE STEERING 3”.

Is DTC “C161E-83” detected?

YES>>

Proceed to diagnosis procedure. 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. PERFORM ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) SELF-DIAGNOSIS

 With CONSULT

1. Power switch OFF to ON.
2. Perform self-diagnosis for "ABS".

Is any DTC detected?

YES>>

Check the DTC. Refer to [DTC Index](#).

NO>>

[GO TO 2.](#)

2. CHECK CONNECTOR AND TERMINAL

1. Power switch OFF.
2. Disconnect ABS actuator and electric unit (control unit) harness connector.
3. Disconnect power steering control module harness connector.
4. Check the connector for disconnection or looseness.
5. Check the terminals for damage or loose connection with harness connector.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Repair or replace harness, connector, or terminal, securely lock the connector.

3. PERFORM SELF-DIAGNOSIS

 With CONSULT

1. Connect ABS actuator and electric unit (control unit) harness connector.
2. Connect power steering control module harness connector.
3. Power switch OFF to ON.
4. Erase self-diagnostic results for "EPS/DIRECT ADAPTIVE STEERING 3".
5. Pull the parking brake switch.



NOTE:

Check to make sure that the parking brake switch indicator is turned ON.

6. Power switch OFF.

7. Get out of the vehicle and close all doors.

8. Wait 65 seconds or more.



NOTE:

- Check to make sure that the parking brake switch indicator is turned OFF.
- If the rear brake calipers are hot, wait up to an hour until parking brake switch indicator on the switch turns OFF. Once indicator on the switch turns OFF, move to next step.

9. Set the vehicle to READY.

CAUTION:

Never drive the vehicle.

10. Perform self-diagnosis for “EPS/DIRECT ADAPTIVE STEERING 3”.

Is DTC “C161E-83” detected?

YES>>

Replace the EPS Control unit. Refer to [Removal & Installation](#).

NO>>

INSPECTION END

Sample

DTC DETECTION LOGIC

DTC No.		CONSULT screen terms	DTC detection condition	
C161E	86	Anti-lock braking system	Diagnosis condition	When power switch is ON.
			Signal (terminal)	CAN communication signal
			Threshold	When a malfunction is detected in ABS actuator and electric unit (control unit).
			Diagnosis delay time	2 seconds or more

POSSIBLE CAUSE

- CAN communication line
- ABS actuator and electric unit (control unit)
- Power steering control module

FAIL-SAFE

Normal state

1. PRECONDITIONING

1. Pull the parking brake switch.

**NOTE:**

Check to make sure that the parking brake switch indicator is turned ON.

2. Power switch OFF.
3. Get out of the vehicle and close all doors.
4. Wait 65 seconds or more.

**NOTE:**

- **Check to make sure that the parking brake switch indicator is turned OFF.**
- **If the rear brake calipers are hot, wait up to an hour until parking brake switch indicator on the switch turns OFF. Once indicator on the switch turns OFF, move to next step.**

>>

[GO TO 2.](#)

2. DTC REPRODUCTION PROCEDURE

 With CONSULT

1. Power switch ON.
2. Perform self-diagnosis for “EPS/DIRECT ADAPTIVE STEERING 3”.

Is DTC “C161E-86” detected?

YES>>

Proceed to diagnosis procedure. Refer to [DTC Diagnosis Procedure](#).

NO-1>>

To check malfunction symptom before repair: Refer to [Intermittent Incident](#).

NO-2>>

Confirmation after repair: INSPECTION END