

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.

2005 NISSAN Primera Wagon OEM Service and Repair Workshop Manual

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⑩	Front passenger air bag OFF indicator	⑪	Front center air bag module	⑫	Rear seat belt pre-tensioner
⑬	C-pillar satellite sensor	⑭	Front seat belt pre-tensioner	⑮	Lap pre-tensioner
⑯	Occupant detection system control unit	⑰	Occupant detection system sensor	⑱	Front door satellite sensor
⑲	Air bag diagnosis sensor unit	⑳	Crash zone sensor	㉑	Spiral cable
A	View with luggage side upper finisher removed	B	View with luggage side lower finisher removed	C	View with center pillar lower garnish removed
D	View with outside seat cushion finisher removed	E	Backside of passenger seat cushion	F	View with front door finisher removed
G	View with rear ventilator duct removed	H	Radiator core support	I	View with steering wheel removed

Sample

APPLICATION ITEM

CONSULT performs the following functions.

Diagnosis mode	Description
Self Diagnostic Result	Display DTC which air bag diagnosis sensor unit memorizes
ECU Identification	Air bag diagnosis sensor unit part number is displayed.
Data Monitor	This item is displayed, but cannot be supported.
Replace ECU	The vehicle specification can be written when replacing air bag diagnosis sensor unit.
TROUBLE DIAG RECORD	With TROUBLE DIAG RECORD, diagnosis results previously erased by a reset operation can be displayed on CONSULT screen.

SELF DIAGNOSTIC RESULT

Refer to [DTC Index](#).

Freeze Frame Data (FFD)

The air bag diagnosis sensor unit records the following vehicle condition at the time a particular DTC is detected, and displays on CONSULT.

CONSULT screen item	Indication/Unit	Description
ODO/TRIP METER	km	Total mileage (Odometer value) of the moment a particular DTC is detected.
DTC occurrence Counter	count	DTC detection number of times.

APPLICATION ITEM

CONSULT performs the following functions.

Diagnosis mode	Description
Data Monitor	Displays the real-time input signal of occupant detection system control unit.
Work support	This mode enables a technician to adjust some devices faster and more accurately by following the indications on the CONSULT.

DATA MONITOR



NOTE:

The following table includes information (items) inapplicable to this vehicle. For information (items) applicable to this vehicle, refer to CONSULT display items.

Monitor Item	Contents
Buckle switch status	<p>The switch status input from seat belt buckle switch (passenger side).</p> <ul style="list-style-type: none"> • Not monitored: Seat belt buckle switch (passenger side) is not monitored. • Unfastened: Seat belt buckle switch (passenger side) is unfasten. • Fastened: Seat belt buckle switch (passenger side) is fasten. • Reload: The seat belt buckle switch (passenger side) state is loading.
Buckle switch spec	<p>Displays the spec of the seat belt buckle switch (passenger side).</p> <ul style="list-style-type: none"> • Not monitored: seat belt buckle switch (passenger side) is not monitored. • Normally open: seat belt buckle switch (passenger side) is normal open type. • Normally close: seat belt buckle switch (passenger side) is normal close type. • From air bag diagnosis sensor unit: Occupant detection system control unit receives seat belt buckle switch (passenger side) signal from air bag diagnosis sensor unit.
Buckle switch status (communication)	<p>Displays the status of the seat belt buckle switch (passenger side) signal.</p> <ul style="list-style-type: none"> • Not monitored: seat belt buckle switch (passenger side) is not monitored. • Monitor(wiring): The switch status input from seat belt buckle switch (passenger side). • From air bag diagnosis sensor unit: The switch status input from air bag diagnosis sensor unit.

WORK SUPPORT

Test item	Description
Zero point reset function	Perform zero point reset. Refer to Description .

DTC DETECTION LOGIC

DTC No.	CONSULT screen items	DTC Detection Condition	
		Diagnosis condition	When power switch is ON.
B1004-09	Passenger air bag module active vent	Signal (terminal)	Passenger air bag module (active vent) signal
		Threshold	Passenger air bag module (active vent) circuit is shorted to other
		Diagnosis delay time	2 seconds or more.

POSSIBLE CAUSE

- Connection malfunction or short circuit of harness and connector
- Internal malfunction of passenger air bag module (active vent)
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

 With CONSULT

1. Power switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Is malfunctioning part detected?

YES>>

Refer to [Diagnosis Procedure](#).

NO-1>>

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

NO-2>>

Confirmation after repair: INSPECTION END

WARNING:

- Before servicing, power switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO-1>>

Damage: Replace malfunctioning harness and connector.

NO-2>>

Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Replace malfunctioning harness and connector.

3. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to [Removal & Installation](#).

2. Perform DTC confirmation procedure. Refer to [DTC Description](#).

Is DTC detected?

YES>>

[GO TO 4.](#)

NO>>

INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to [Removal & Installation](#).

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Sample

DTC DETECTION LOGIC

DTC No.	CONSULT screen items	DTC Detection Condition	
		Diagnosis condition	
B1004-11	Passenger air bag module active vent	Diagnosis condition	When power switch is ON.
		Signal (terminal)	Passenger air bag module (active vent) signal
		Threshold	Passenger air bag module (active vent) circuit is shorted to ground
		Diagnosis delay time	2 seconds or more.

POSSIBLE CAUSE

- Connection malfunction or short circuit to ground of harness and connector
- Internal malfunction of passenger air bag module (active vent)
- Internal malfunction of air bag diagnosis sensor unit

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

 With CONSULT

1. Power switch ON.
2. Perform "Self Diagnostic Result" mode of "AIR BAG" using CONSULT.

Is malfunctioning part detected?

YES>>

Refer to [Diagnosis Procedure](#).

NO-1>>

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

NO-2>>

Confirmation after repair: INSPECTION END

WARNING:

- Before servicing, power switch OFF, disconnect battery negative terminal, and wait at least 3 minutes or more. (To discharge backup capacitor.)
- Never use unspecified tester or other measuring device.

1. CHECK HARNESS CONNECTOR

Check the harness connector for disconnection, looseness or damage.

Is the inspection result normal?

YES>>

[GO TO 2.](#)

NO-1>>

Damage: Replace malfunctioning harness and connector.

NO-2>>

Disconnection or looseness: Securely lock the connector.

2. CHECK WIRING HARNESS

Check the wiring harness externals.

Is the inspection result normal?

YES>>

[GO TO 3.](#)

NO>>

Replace malfunctioning harness and connector.

3. REPLACE PASSENGER AIR BAG MODULE

1. Replace passenger air bag module. Refer to [Removal & Installation](#).

2. Perform DTC confirmation procedure. Refer to [DTC Description](#).

Is DTC detected?

YES>>

[GO TO 4.](#)

NO>>

INSPECTION END

4. REPLACE AIR BAG DIAGNOSIS SENSOR UNIT

Replace air bag diagnosis sensor unit. Refer to [Removal & Installation](#).

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Sample