

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 Skyline Coupe OEM Service and Repair Workshop Manual

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1. CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to [Trouble Diagnosis Flow Chart](#).

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INSPECTION END

Sample

DTC Description

SIEMD-7084317

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [CAN Communication Signal Chart](#).

DTC DETECTION LOGIC

| DTC No. | CONSULT screen items | DTC Detection Condition | |
|----------|------------------------------------|-------------------------|--|
| U215B-87 | CAN communication error (IPDM E/R) | Diagnosis condition | When power switch is ON. |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | Air bag diagnosis sensor unit cannot communicate CAN communication signal. |
| | | Diagnosis delay time | 2 seconds or more. |

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

 With CONSULT

1. Power switch ON and wait for 2 seconds or more.
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

1. CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to [Trouble Diagnosis Flow Chart](#).

>>

INSPECTION END

Sample

DTC Description

SIEMD-7084283

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [CAN Communication Signal Chart](#).

DTC DETECTION LOGIC

| DTC No. | CONSULT screen items | DTC Detection Condition | |
|----------|---------------------------------------|-------------------------|--|
| U215F-87 | CAN communication error (laser/radar) | Diagnosis condition | When power switch is ON. |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | Air bag diagnosis sensor unit cannot communicate CAN communication signal. |
| | | Diagnosis delay time | 2 seconds or more. |

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

 With CONSULT

1. Power switch ON and wait for 2 seconds or more.
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

1. CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to [Trouble Diagnosis Flow Chart](#).

>>

INSPECTION END

Sample

DTC Description

SIEMD-7084655

CAN (Controller Area Network) is a serial communication line for real time applications. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicle is equipped with many electronic control unit, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H-line, CAN L-line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Signal Chart. Refer to [CAN Communication Signal Chart](#).

DTC DETECTION LOGIC

| DTC No. | CONSULT screen items | DTC Detection Condition | |
|----------|---|-------------------------|--|
| U2176-87 | CAN communication error (CCM/ST angle sensor) | Diagnosis condition | When power switch is ON. |
| | | Signal (terminal) | CAN communication signal |
| | | Threshold | Air bag diagnosis sensor unit cannot communicate CAN communication signal. |
| | | Diagnosis delay time | 2 seconds or more. |

POSSIBLE CAUSE

CAN communication system

FAIL-SAFE

DTC CONFIRMATION PROCEDURE

1. CHECK SELF-DIAG RESULT

 With CONSULT

1. Power switch ON and wait for 2 seconds or more.
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

1. CHECK CAN COMMUNICATION SYSTEM

Check CAN communication system. Refer to [Trouble Diagnosis Flow Chart](#).

>>

INSPECTION END

Sample

DTC DETECTION LOGIC

| DTC No. | CONSULT screen items | DTC Detection Condition | |
|----------------------|--|-------------------------|----------------------------------|
| | | B0094-11 | Center Frontal Restraints Sensor |
| Signal (terminal) | Crash zone sensor signal | | |
| Threshold | Crash zone sensor 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 crash zone sensor
- 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 CRASH ZONE SENSOR

1. Replace crash zone sensor. 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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