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2018 NISSAN Skyline Sedan OEM Service and Repair Workshop Manual

[Go to manual page](#)

Monitor item	Condition	Reference values in normal operation
Brake torque (front)	When braking	Increases according to amount of braking
	When not braking	0 N · m
Brake torque (rear)	When braking	Increases according to amount of braking
	When not braking	0 N · m
Brake torque (all)	When braking	Increases according to amount of braking
	When not braking	0 N · m
Target brake force (all)	When braking	Increases according to amount of braking
	When not braking	0 N · m
Torque control type	When braking torque is not request from e-Step	1
	When brake torque is request from e-Step (regenerative brake is not activated)	2
	When brake torque is request from e-Step (regenerative brake is activated)	3
Chassis dynamometer mode	When other than chassis dynamometer mode	Off
	When chassis dynamometer mode	On
	When temporarily released after entering chassis dynamometer mode	Temporary prohibit
	When released after entering chassis dynamometer mode	Prohibit
Stop lamp ON request (e-Pedal)	When stop lamp turn ON by e-Step is not requested	No request
	When stop lamp turn ON by e-Step is requested	Request
e-Pedal warning	When e-Step warning is not displayed	No warning
	When e-Step warning is displayed	Warning
Brake force limit torque request	When brake force limit is not requested	No request
	When brake force limit is requested	Request
Shift position	When electric shift selector is P position	P
	When electric shift selector is R position	R
	When electric shift selector is N position	N
	When electric shift selector is D position	D
	When electric shift selector is manual mode	M
	When electric shift selector is L position	L
	When electric shift selector is Ds position	Ds
	When electric shift selector is unknown	Unknown
	When electric shift selector is B position	B
	When electric shift selector is malfunction	Not available
Brake torque request (e-Pedal)	When brake torque by e-Step is not requested	0 N · m
	When brake torque by e-Step is requested	Depends on the requested value
e-Pedal VCM status	When e-Step is normal	Normal

Monitor item	Condition	Reference values in normal operation
	When e-Step is malfunction	Malfunction
e-Pedal switch	When e-Step switch is OFF	Off
	When e-Step switch is ON	On
e-Pedal status 1	When e-Step is normal	Normal
	When e-Step is malfunction	Malfunction
e-Pedal slope estimate permit	When slope estimation value by e-Step function is not permitted	Not permission
	When slope estimation value by e-Step function is permitted	Permission
Brake force limit torque	Always	Depends on braking
P range status	Displays but not used	—
Parking brake malfunction status	When electric parking brake function is normal	Normal
	When electric parking brake function is malfunction	Malfunction

*: Check tire pressure under normal conditions.

Refer to [Fail-safe](#).

Sample

DTC Inspection Priority Chart

SIEMD-7267972

When multiple DTCs are displayed simultaneously, check them one by one according to the following priority list.

Priority	Detected item (DTC)
1	<ul style="list-style-type: none"> • U1327-54 MAC key update
2	<ul style="list-style-type: none"> • U1327-52 MAC key update
3	<ul style="list-style-type: none"> • U0076-00 Control module communication Bus D Off • U007A-00 Control module communication Bus H Off • U1A30-83 VCM communication • U1A31-83 ABS actuator and electric unit (control unit) communication • U2118-87 CAN communication error (Intelligent Key) • U2143-57 CAN communication error (VCM/HCM/EVC/HEVC) • U2143-83 Controller area network communication error (Vehicle control module/Hybrid control module) • U2143-87 Controller area network communication error (Vehicle control module/Hybrid control module) • U214E-87 CAN communication error (combination meter) • U214F-57 CAN communication error (BCM) • U214F-83 CAN communication error (BCM) • U214F-87 CAN communication error (BCM) • U2152-57 CAN communication error advanced driver assistant systems control unit • U2152-83 CAN communication error advanced driver assistant systems control unit • U2152-87 CAN communication error advanced driver assistant systems control unit • U2154-87 CAN communication error multimedia interface unit • U215B-83 CAN communication error (IPDM E/R) • U215B-87 CAN communication error (IPDM E/R) • U2165-57 CAN communication error sonar • U2165-83 CAN communication error sonar • U2165-87 CAN communication error sonar • U218B-83 CAN communication error • U218B-87 CAN communication error • U2248-83 CAN communication error brake control unit • U2248-87 CAN communication error brake control unit • U2359-83 CAN communication error steering control unit • U2359-87 CAN communication error steering control unit • U2448-83 CAN communication error [ABS actuator and electric unit (control unit)] • U2448-87 CAN communication error [ABS actuator and electric unit (control unit)]

Priority	Detected item (DTC)
	<ul style="list-style-type: none"> • U24A6-83 CAN communication error (HNS) • U24A6-87 CAN communication error (HNS) • U2543-83 CAN communication error (VCM/HCM/EVC/HEVC) • U2543-87 CAN communication error (VCM/HCM/EVC/HEVC) • U2675-83 CAN communication error (AVM) • U2675-87 CAN communication error (AVM) • U2A03-88 CAN communication error • U2A0A-88 Communication Bus Off ITS6-FD • U2A0B-88 Controller area network communication error • U2A0E-88 Communication Bus Off CH2-FD
4	<ul style="list-style-type: none"> • C1B80-54 Incomplete calibration • C1B81-55 Configuration not completed
5	<ul style="list-style-type: none"> • C1B8B-82 Power network separate relay • C1B8C-82 C1B8C-82 Battery management system • C1B8D-82 AVM • C1B8F-82 Intelligent power distribution module engine room communication • C1B90-82 EPS • C1B92-82 Brake control system • C1B92-86 Brake control system • C1B93-82 Engine/HEV system • C1B93-86 Engine/HEV system • C1B94-82 Transmission system • C1B94-86 Transmission system • C1B96-82 ADAS system • C1B96-86 ADAS system • C1B97-82 BCM • C1BA1-82 Sonar system • C1BC9-82 VCM system • C1BCA-82 ABS actuator and electric unit (control unit) system • C1BCC-97 Stop lamp
6	<ul style="list-style-type: none"> • C1BB4-44 Control module • C1BB4-45 Control module • C1BB4-46 Control module

Priority	Detected item (DTC)
	<ul style="list-style-type: none"><li data-bbox="263 56 582 89">• C1BB4-49 Control module

Sample

Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

RDE-001899088

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collisions.

Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" sections of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.
- Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

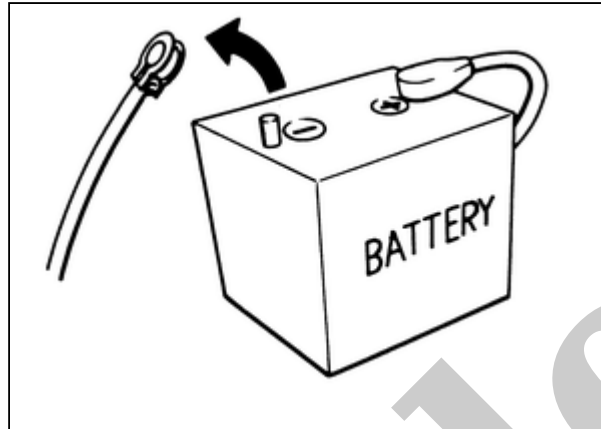
Always observe the following items for preventing accidental activation:

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition/power switch ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always place the ignition/power switch in the OFF position, disconnect the 12V battery or batteries, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

RDE-001899089

- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the Intelligent Key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing "How to disconnect 12V battery terminal" described below.



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NOTE:

Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.



NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.



NOTE:

The removal of 12V battery may cause a DTC detection error.

HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to instruction described below.

1. Open the hood.
2. Turn ignition switch to the ON position.
3. Turn ignition switch to the OFF position with the driver side door opened.
4. Get out of the vehicle and close the driver side door.
5. Wait at least 3 minutes.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

6. Remove 12V battery terminal.

CAUTION:

After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

Sample