ACCELERATOR CONTROL SYSTEM <UNIT REMOVAL AND INSTALLATION > UNIT REMOVAL AND INSTALLATION ACCELERATOR CONTROL SYSTEM

Removal and Installation

INFOID:000000009825511



1. Adjustable accelerator pedal assem- 2. bly

A/T control cable mounting bracket (part 3. of the accelerator pedal assembly)

Adjustable pedal electric motor (part of the accelerator pedal assembly)

4. Adjustable brake pedal cable (part of the accelerator pedal assembly)

CAUTION:

- Before removal and installation the accelerator and brake pedals must be in the front most position. This is to align the base position of the accelerator and brake pedals.
- Do not disassemble the accelerator pedal assembly.
- Do not remove the accelerator pedal position sensor from the accelerator pedal bracket.
- Do not disassemble the accelerator pedal adjusting mechanism.
- Avoid damage from dropping the accelerator pedal assembly during handling.
- Keep the accelerator pedal assembly away from water.

REMOVAL

- 1. Move the accelerator and brake pedals to the front most position.
- 2. Turn the ignition switch OFF and disconnect the negative battery terminal.
- 3. Disconnect the adjustable brake pedal cable from the adjustable brake pedal.
 - Unlock, then pull the adjustable brake pedal cable to disconnect it from the adjustable brake pedal.

BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

OVERALL SEQUENCE



DETAILED FLOW

1.GET INFORMATION FOR SYMPTOM

Get detailed information from the customer about the symptom (the condition and the environment when the incident/malfunction occurred).

>> GO TO 2.

2.CONFIRM THE SYMPTOM

Try to confirm the symptom described by the customer. Verify relation between the symptom and the condition when the symptom is detected.

>> GO TO 3.

3. DETECT MALFUNCTIONING PART BY DIAGNOSTIC PROCEDURE

Inspect according to Diagnostic Procedure of the system.

[BASE AUDIO]

INFOID:000000009820763

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BOSE AUDIO SYSTEM - WITHOUT NAVIGATION SYSTEM [BOSE AUDIO WITHOUT NAVIGATION]





Signal Name	I	I	I	I	I	I	I	I	I	I	I	I	I
Color of Wire	В∕Ү	SB	Ν	В	SHIELD	σ	н	W/G	В	в	M	>	н
Terminal No.	1J	۲2	24J	25J	643	57J	58J	L63	62J	66J	ſ29	69	ſ96



	Signal Name	I
]	Color of Wire	G/R
Ď	Terminal No.	ð

ABNIA3883GB

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C1142 PRESS SENSOR

Description

The front and rear pressure sensors convert the brake fluid pressure to an electric signal and transmit it to the ABS actuator and electric unit (control unit).

DTC Logic

INFOID:000000009824055

INFOID:000000009824054

DTC DETECTION LOGIC

C1142 PRESS SEN CIRCUIT Pressure sensor signal line is open or shorted, or pressure sensor • Heressure sensor • Heressure sensor • ABS actuator and electric unit (control unit) • EBRC DTC CONFIRMATION PROCEDURE 1. CHECK SELF-DIAGNOSIS RESULTS BRC Check the self-diagnosis results. G Self-diagnosis results G PRESS SEN CIRCUIT Is above displayed on the self-diagnosis display? H Self-diagnosis results G PRESS SEN CIRCUIT Breasure sensor*. G Is above displayed on the self-diagnosis display? H VES >> Proceed to diagnosis procedure. Refer to BRC-57. "Diagnosis Procedure (Front Pressure Sensor)". H NO >> Inspection End I Diagnosis Procedure (Front Pressure Sensor) J Regarding Wiring Diagram information, refer to BRC-92. "Wiring Diagram". L 1. Turn the ignition switch OFF. L Isoconnector. 2. JENONT PRESSURE SENSOR CIRCUIT INSPECTION M 1. Measure the continuity between the ABS actuator and electric unit (control unit) connector for and inspect the terminals for deformation, disconnection, losseness, or damage. M 2. FRONT PRESSURE SENSOR CIRCUIT INSPECTION M M	DTC	Display item		Malfunction	n detected condition	l	Possible	cause	D	
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1.CHECK SELF-DIAGNOSIS RESULTS BRC Check the self-diagnosis results. G Image: Self-diagnosis results. G PRESS SEN CIRCUIT Is above displayed on the self-diagnosis display? H YES > Proceed to diagnosis procedure. Refer to BRC-57. "Diagnosis Procedure (Front Pressure Sensor)". H NO > Inspection End Image: Sensor Connector End Image: Sensor Connector End 1. Turn the ignition switch OFF. 1. Turn the ignition switch OFF. Image: Sensor Connector and ABS actuator and electric unit (control unit) connector tor and inspect the terminals for deformation, disconnection, looseness, or damage. Image: Sensor Connector End 1. Turn the ignition switch OFF. M M 2. FRONT PRESSURE SENSOR CIRCUIT INSPECTION M 1. Measure the continuity between the ABS actuator and electric unit (control unit) connector E125 (A) and front pressure sensor connector	DTC CC	NFIRMATION P	ROCEDURE							
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		20		2	L			AWFIA0021ZZ		

2. Measure the continuity between the ABS actuator and electric unit (control unit) connector E125 (A) and body ground.

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KEY REMINDER FUNCTION SYMPTOMS

Symptom Table

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KEY REMINDER FUNCTION MALFUNCTION

NOTE:

- Before performing the diagnosis in the following table, check "Work flow". Refer to DLK-8, "Work Flow".
- If the following symptoms" are detected, check systems shown in the "Diagnosis/service procedure" column in this order.

Conditions of Vehicle (Operating Conditions)

- "LOCK/UNLOCK BY I-KEY" is ON when setting on CONSULT.
- "ANSWER BACK FUNCTION" is ON when setting on CONSULT.
- Ignition switch is in OFF position.
- All doors are closed.
- Ignition switch is not depressed.

Symptom		Diagnosis/service	Reference page	
	1.	<u>DLK-58</u>		
	2.	Check door switch.	<u>DLK-74</u>	
			Center console area (rear)	<u>DLK-63</u>
	3.	Check inside key antennas	Luggage area	DLK-69
Key reminder function does not operate.			Center console area (front)	<u>DLK-65</u>
			Overhead console area	DLK-67
	4.	Check unlock sensor.	<u>DLK-85</u>	
	5.	Check Intelligent Key battery inspecti	DLK-108	
	6.	Check Intermittent Incident.	<u>GI-42</u>	

< PRECAUTION > PRECAUTION

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PRECAUTIONS

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

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 collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, 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 the SR section.
- Do not 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:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT 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 switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

Precaution Necessary for Steering Wheel Rotation After Battery Disconnect

INFOID:000000009824851

NOTE:

- This Procedure is applied only to models with Intelligent Key system and NATS (NISSAN ANTI-THEFT SYS-TEM).
- Remove and install all control units after disconnecting both battery cables with the ignition knob in the "LOCK" position.
- Always use CONSULT to perform self-diagnosis as a part of each function inspection after finishing work. If DTC is detected, perform trouble diagnosis according to self-diagnostic results.

For models equipped with the Intelligent Key system and NATS, an electrically controlled steering lock mechanism is adopted on the key cylinder.

For this reason, if the battery is disconnected or if the battery is discharged, the steering wheel will lock and steering wheel rotation will become impossible.

If steering wheel rotation is required when battery power is interrupted, follow the procedure below before starting the repair operation.

OPERATION PROCEDURE

- Connect both battery cables.
 NOTE: Supply power using jumper cables if battery is discharged.
- 2. Use the Intelligent Key or mechanical key to turn the ignition switch to the "ACC" position. At this time, the steering lock will be released.
- 3. Disconnect both battery cables. The steering lock will remain released and the steering wheel can be rotated.
- 4. Perform the necessary repair operation.

P0443 EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE

< DTC/CIRCUIT DIAGNOSIS >	[VK56DE]
4. Also check harness for short to ground and short to power.	
<u>OK or NG</u>	
OK >> GO TO 4.	_
4 CHECK EVAD CONTROL SYSTEM DRESSURE SENSOR CONNECTOR	E
 Check connectors for water. 	
Water should not exist.	
NG >> Replace EVAP control system pressure sensor. Refer to FL-16.	
5. CHECK EVAP CONTROL SYSTEM PRESSURE SENSOR	
Refer to EC-317, "Component Inspection".	
OK or NG	
OK (With CONSULT)>>GO TO 6.	
OK (Without CONSULT)>>GO TO 7.	
6 CHECK EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE	1
1. Turn ignition switch OFF.	
2. Reconnect all harness connectors disconnected.	
 Start engine. Perform "PURG VOL CONT/V" in "ACTIVE TEST" mode with CONSULT. Check that engine according to the valve opening. 	speed varies
OK or NG	
OK >> GO TO 8.	
NG $>>$ GUTU 7. 7 CHECK EVAD CANNETED DUDGE VOLUME CONTROL SOLENOID VALVE	
T.CHECK EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE	
Refer to <u>EC-302, "Component Inspection"</u> .	
$OK \to GO TO 8$	
NG >> Replace EVAP canister purge volume control solenoid valve. Refer to $EM-27$.	
8. CHECK RUBBER TUBE FOR CLOGGING	
1. Disconnect rubber tube connected to EVAP canister vent control valve.	
2. Check the rubber tube for clogging.	
NG >> Clean the rubber tube using an air blower.	
9. CHECK EVAP CANISTER VENT CONTROL VALVE	
Refer to EC-313, "Component Inspection".	
OK or NG	
OK >> GO TO 10.	
NG >> Replace EVAP canister vent control valve. Refer to $FL-16$.	
IU.CHECK IF EVAP CANISTER SATURATED WITH WATER	
1. Remove EVAP canister with EVAP canister vent control valve and EVAP control system pre	ssure sensor

attached. Refer to FL-16.

FRONT FOG LAMP CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

3. CHECK FRONT FOG LAMP OPEN CIRCUIT

- 1. Turn the ignition switch OFF.
- 2. Disconnect IPDM E/R connector E123.
- 3. Check continuity between the IPDM E/R harness connector (A) and the front fog lamp harness connector (B).

	А		В	Continuity	
Con	nector	Terminal	Connector	Terminal	Continuity
LH	E123	50	E101	1	Vec
RH	L123	51	E102	1	165



Does continuity exist?

YES >> Replace IPDM E/R. Refer to <u>PCS-31, "Removal and Installation of IPDM E/R"</u>.

NO >> Repair the harnesses or connectors.

4. CHECK FRONT FOG LAMP GROUND CIRCUIT

- 1. Disconnect the front fog lamp connector.
- 2. Check continuity between the front fog lamp harness connector and ground.

Conr	nector	Terminal	—	Continuity
LH	E101	2	Ground	Ves
RH	E102	2	Ground	163

Does continuity exist?

- YES >> Inspect the fog lamp bulb.
- NO >> Repair the harness.



INTAKE SENSOR

< DTC/CIRCUIT DIAGNOSIS >

- 1. Turn ignition switch OFF.
- 2. Disconnect A/C auto amp. connector.
- Check continuity between intake sensor harness connector M146 (B) terminal 1 and A/C auto amp. harness connector M49 (A) terminal 26.

1 - 26

: Continuity should exist.

Is the inspection result normal?

- YES >> GO TO 3.
- NO >> Repair harness or connector.

3. CHECK INTAKE SENSOR

Check intake sensor. Refer to HAC-82, "Intake Sensor Component Inspection".

Is the inspection result normal?

- YES >> 1. Replace A/C auto amp. Refer to <u>VTL-7, "Removal and Installation"</u>.
 - 2. Using CONSULT, perform "SELF-DIAGNOSIS RESULTS" of HVAC.
- NO >> 1. Replace intake sensor. Refer to <u>VTL-11, "Removal and Installation"</u>.
 2. Using CONSULT, perform "SELF-DIAGNOSIS RESULTS" of HVAC.

4.CHECK CIRCUIT CONTINUITY BETWEEN INTAKE SENSOR AND A/C AUTO AMP.

- 1. Turn ignition switch OFF.
- 2. Disconnect A/C auto amp. connector.
- Check continuity between intake sensor harness connector M146 (B) terminal 2 and A/C auto amp. harness connector M49 (A) terminal 11.

2 - 11

: Continuity should exist.

4. Check continuity between intake sensor harness connector M146 (B) terminal 2 and ground.

2 - Ground

: Continuity should not exist.

Is the inspection result normal?

YES >> 1. Replace A/C auto amp. Refer to <u>VTL-7. "Removal and Installation"</u>.

- Using CONSULT, perform "SELF-DIAGNOSIS RESULTS" of HVAC.
 >> Repair harness or connector.
- Intake Sensor Component Inspection

COMPONENT INSPECTION

Intake Sensor

NO



INFOID:000000009823862

[AUTOMATIC AIR CONDITIONER]

REAR POWER VENT WINDOW MOTOR RH CIRCUIT CHECK

< DTC/CIRCUIT DIAGNOSIS >

REAR POWER VENT WINDOW MOTOR RH CIRCUIT CHECK

Description

Rear power vent windows OPEN/CLOSE by receiving the signal from rear power vent window switch.

Regarding Wiring Diagram information, refer to PWC-66, "Wiring Diagram".

1.CHECK REAR POWER VENT WINDOW SWITCH RH SIGNAL

- 1. Turn ignition switch OFF.
- 2. Disconnect rear power vent window motor RH.
- 3. Turn ignition switch ON.
- Check voltage between rear power vent window motor LH connector B150 terminals 1, 2 and ground.

Connector	Term	ninals		Voltage (V)	
Connector	(+) (-)		Condition	(Approx.)	
	1		Opening	Battery voltage	
B150	I	Cround	Closing	0	
D130	2	Ground	Opening	0	
			Closing	Battery voltage	



Is the inspection result normal?

YES >> Replace rear power vent window motor RH. Refer to <u>GW-20, "Removal and Installation (with Rear</u> <u>Power Vent Windows)"</u>.

NO >> Repair or replace harness.

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SECOND SEAT

< UNIT DISASSEMBLY AND ASSEMBLY >



- 1. Seatback pad
- Seat belt retractor cover 4.
- 7. Headrest holder (locked)
- 10. Armrest bracket finisher
- 13. Seat cushion latch assembly
- 16. Seat base bracket

- 2. Armrest finisher
- 5. Seat belt retractor finisher
- 8. Seatback board
- 11. Seatback frame assembly
- 14. Seatback hinge support bracket (LH) 15. Seat frame finisher (LH)
- 17. Seat base bracket finisher
- 3. Headrest
- 6. Headrest holder (free)
- 9. Seatback silencer
- 12. Seat cushion frame assembly
- 18. Seat cushion pad

B1XXX AIR BAG DIAGNOSIS SENSOR UNIT

2.IGNITION SWITCH A After air bag warning lamp lights for 7 seconds, turn ignition switch OFF within 1 second. > >> G0 T0 3 B 3.WAIT TIME C Wait more than 3 seconds. C >> G0 T0 4 C 4.REPEAT STEPS D Repeat steps 1 to 3 twice. E >> G0 T0 5 5 J.GNITION SWITCH F Turn ignition switch ON. F >> G0 T0 6 G 6.DIAGNOSTIC MODE G SR system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to <u>SRC-75. "Trouble Diagnosis</u> without CONSULT". SR >> END Diagnosis Procedure (Component Diagnosis) wcccccccccccccccccccccccccccccccccccc	< DTC/CIRCUIT DIAGNOSIS >	
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6. DIAGNOSTIC MODE G SRS system is now in diagnostic mode and AIR BAG warning lamp flashes. Refer to SRC-75, "Trouble Diagnosis without CONSULT". SR >> END Diagnosis Procedure (Component Diagnosis) IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	>> GO TO 6	0
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	Replace the air bag diagnosis sensor unit. Refer to <u>SR-18, "Removal and Installation"</u> .	
>> GO TO 4	>> GO TO 4	0
4.RELATED HARNESS	4.RELATED HARNESS	-
	Replace the related harness.	Ρ
Devices the second devices and	Replace the related harness.	Ρ

>> END

< UNIT REMOVAL AND INSTALLATION >

UNIT REMOVAL AND INSTALLATION TRANSMISSION ASSEMBLY

Removal and Installation (2WD)

INFOID:000000009824655

COMPONENTS



CAUTION:

- Before replacing transmission assembly, perform "ADDITIONAL SERVICE WHEN REPLACING TRANSMISSION ASSEMBLY". Refer to <u>TM-8</u>, "ADDITIONAL SERVICE WHEN REPLACING TRANS-<u>MISSION ASSEMBLY : Special Repair Requirement"</u>.
- When removing the A/T assembly from engine, first remove the crankshaft position sensor (POS) from the A/T assembly. Be careful not to damage sensor edge.

NOTE:

When removing components such as hoses, tubes/lines, etc., cap or plug openings to prevent fluid from spilling.

REMOVAL

- 1. Disconnect the battery negative terminal. Refer to PG-77. "Removal and Installation".
- 2. Remove A/T fluid indicator.
- 3. Remove engine under cover using power tool. Refer to EXT-15, "Removal and Installation".

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

1. Turn ignition switch ON. Push the transmitter activation tool against the tire near the front left transmitter. Press the button for 5 seconds. The hazard warning lamps flash per the following diagram.

Tool number : (J-45295)



- 2. Repeat this procedure for each tire in the following order: FL, FR, RR, RL.
- 3. When the BCM finishes assigning each tire ID, the BCM flashes the hazard warning lamps and sends flashing indicator status by CAN according to the following time chart.



4. After completing wake up of all transmitters, make sure low tire pressure warning lamp goes out.

ID Registration Procedure

INFOID:000000009824372

NOTE:

The Signal Tech II Tool (J-50190) can be used to perform the following functions. Refer to the Signal Tech II User Guide for additional information.

- Activate and display TPMS transmitter IDs
- · Display tire pressure reported by the TPMS transmitter
- Read TPMS DTCs
- Register TPMS transmitter IDs

ID REGISTRATION WITH TRANSMITTER ACTIVATION TOOL

NOTE:

This procedure must be done after replacement of a TPMS transmitter or BCM. New replacement transmitters are provided "asleep" and must first be "woken up" using Transmitter Activation Tool J-45295 or Signal Tech II Tool J-50190 before ID registration can be performed. Use the following procedure when using the Transmitter Activation Tool J-45295.

- 1. Connect CONSULT.
- 2. Select "ID REGIST" under BCM.

REAR WIPER AND WASHER SYSTEM

< REMOVAL AND INSTALLATION >

Rear Washer Tube Layout



1. Rear washer nozzle

Check valve

3. Washer fluid reservoir

NOTE:

Connect the check valve (2) to the washer fluid reservoir tube (1) so that the directional arrow on the check valve (2) points towards the washer nozzle tube (3).

2.



INFOID:000000009822468

Rear Washer Nozzle

REMOVAL AND INSTALLATION

Removal

- 1. Remove the rear spoiler. Refer to EXT-30, "Removal and Installation".
- 2. Release retaining clips, and remove washer nozzle.



Installation Installation is in the reverse order of removal.

Rear Wiper and Washer Switch

REMOVAL AND INSTALLATION Refer to <u>WW-75</u>, "Wiper and Washer Switch". INFOID:000000009822469