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2015 NISSAN Skyline Sedan OEM Service and Repair Workshop Manual

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Electric shift control module		Electric shift selector		Continuity
Connector	Terminal	Connector	Terminal	
M203	41	M200	12	Existed
	50		24	

2. Check the continuity between electric shift control module harness connector and ground.

Electric shift control module		-	Continuity
Connector	Terminal		
M203	41	Ground	Not existed
	50		

Is the inspection result normal?

YES>>

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NO>>

Repair or replace the error-detected parts.

5. P POSITION SWITCH INSPECTION

1. Connect all of disconnected connectors.
2. Power switch ON.
3. Check the voltage between electric shift selector harness connector and ground.

+		-	Condition	Voltage
Electric shift selector				
Connector	Terminal	Ground		
M200	6		P position switch: Pressed	1.4 - 2.0 V
	18		P position switch: Released	2.8 - 3.2 V
			P position switch: Pressed	2.8 - 3.2 V
	P position switch: Released	1.4 - 2.0 V		

Is the inspection result normal?

YES>>

Replace electric shift control module. Refer to [ELECTRIC SHIFT CONTROL MODULE : Removal & Installation.](#)

NO>>

Due to the malfunction of the P position switch, replace the electric shift selector. Refer to [ELECTRIC SHIFT SELECTOR : Removal & Installation.](#)

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0604	00	Control Module RAM	Diagnosis condition	Power switch ON
			Signal (terminal)	—
			Threshold	When an error is detected in the electric shift control module.
			Diagnosis delay time	—

POSSIBLE CAUSE

Electric shift control module internal error (RAM error)

FAIL-SAFE

- In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
- In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.

1. PRECONDITIONING

If another DTC "Confirmation Procedure" was performed immediately before this task, make sure to OFF the power switch, exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter OFF before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. If operating it, results in the activation of ACC power supply according to the auto ACC function.


**NOTE:**

After the power switch OFF, there is time needed for data writing by the electric shift control module.

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2. CHECK FOR DTC DETECTION

 With CONSULT

1. Power switch from OFF to ON and wait 2 seconds or more.
2. Perform self-diagnosis for "SHIFT".
 - If more than one DTC is detected, also perform diagnosis based on the DTC Inspection Priority Chart (Refer to [DTC Inspection Priority Chart](#)).

Is "P0604-00" detected?

YES>>

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. REPLACEMENT OF THE ELECTRIC SHIFT CONTROL MODULE

Replace electric shift control module. Refer to [ELECTRIC SHIFT CONTROL MODULE : Removal & Installation](#).

>>

END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P0605	00	Control Module ROM	Diagnosis condition	Power switch ON
			Signal (terminal)	—
			Threshold	When an error is detected in the electric shift control module.
			Diagnosis delay time	—

POSSIBLE CAUSE

Electric shift control module internal error (ROM error)

FAIL-SAFE

- In case of malfunction in the P position: Shifting from the P position to any other position is prohibited.
- In case of malfunction in a position other than the P position: Shifting to the P position is prohibited.

1. PRECONDITIONING

If another DTC “Confirmation Procedure” was performed immediately before this task, make sure to OFF the power switch, exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter OFF before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. If operating it, results in the activation of ACC power supply according to the auto ACC function.

**NOTE:**

After the power switch OFF, there is time needed for data writing by the electric shift control module.

>>

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2. CHECK FOR DTC DETECTION

 With CONSULT

1. Power switch from OFF to ON and wait 2 seconds or more.
2. Perform self-diagnosis for “SHIFT”.
 - If more than one DTC is detected, also perform diagnosis based on the DTC Inspection Priority Chart (Refer to [DTC Inspection Priority Chart](#)).

Is "P0605-00" detected?"

YES>>

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. REPLACEMENT OF THE ELECTRIC SHIFT CONTROL MODULE

Replace electric shift control module. Refer to [ELECTRIC SHIFT CONTROL MODULE : Removal & Installation](#).

>>

END

Sample

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition		
P0681	00	Sensor Power Supply A	1	Diagnosis condition	READY
				Signal (terminal)	Electric shift sensor input signal
				Threshold	It was detected that electric shift sensor No.1, 3, 5, and 7 are stuck OFF, and this state was detected 5 times or more.
				Diagnosis delay time	—
			2	Diagnosis condition	READY
				Signal (terminal)	Electric shift sensor input signal
				Threshold	It was detected that electric shift sensor No.2, 4, 6, and 8 are stuck OFF, and this state was detected 5 times or more.
				Diagnosis delay time	—

POSITION PATTERN

Selector lever position	Electric shift sensor							
	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8
R	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
Nr	ON	ON	ON	ON	ON	OFF	OFF	OFF
H	ON	ON	ON	ON	ON	ON	ON	ON
Nd	OFF	OFF	OFF	ON	ON	ON	ON	ON
D/B	OFF	OFF	OFF	OFF	OFF	OFF	ON	ON

POSSIBLE CAUSE

- Electric shift sensor
- Electric shift control module
- Harness or connectors

(Open or short-circuit of the harness of each circuit)

FAIL-SAFE

No impact to vehicle behavior

1. PRECONDITIONING

If another DTC "Confirmation Procedure" was performed immediately before this task, make sure to OFF the power switch, exit the vehicle and close all doors (including the back door), and wait for at least 60 seconds until the combination meter OFF before starting the next test.

CAUTION:

While waiting, never operate the vehicle such as locking, opening, and closing doors. If operating it, results in the activation of ACC power supply according to the auto ACC function.

**NOTE:**

After the power switch OFF, there is time needed for data writing by the electric shift control module.

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2. ERASE SELF-DIAGNOSIS RESULT

 With CONSULT

Erase self-diagnostic result for "SHIFT".

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3. CHECK FOR DTC DETECTION

 With CONSULT

1. Set the vehicle to READY.
2. Select "Data Monitor" in "SHIFT".
3. Select "Actual shift position".
4. Operate the selector lever as follows. (Keep the selector lever at each shift position for at least 2 seconds.)

CAUTION:

Perform the operation safely with the wheels blocked, the brake pedal depressed, and the vehicle stopped.

- H → N → R → N → D → N → H

5. Repeat step 4 an additional 5 times.
6. Perform self-diagnosis for "SHIFT".

- If more than one DTC is detected, also perform diagnosis based on the DTC Inspection Priority Chart (Refer to [DTC Inspection Priority Chart](#)).

Is "P0681-00" detected?

YES>>

Refer to [DTC Diagnosis Procedure](#).