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2015 NISSAN Quest OEM Service and Repair Workshop Manual

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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.

>>

GO TO 2.

2. CHECK FOR DTC DETECTION

With CONSULT

1. Set the power switch to ON and wait at least 5 seconds.
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 “P189D-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

SIEMD-7198822

1. CHECK BATTERY POWER SUPPLY CIRCUIT

1. Power switch OFF.
2. Disconnect electric shift control module harness connector.
3. Check the voltage between electric shift control module harness connector and ground.

+		-	Condition	Voltage
Electric shift control module				
Connector	**Terminal**			
M202	8	Ground	Power switch: ON or ACC	9 – 16 V
			Power switch: OFF	Approx. 0 V
M203	42		Power switch: ON or ACC	9 – 16 V
			Power switch: OFF	Approx. 0 V

Is the inspection result normal?

YES>>

GO TO 2.

NO>>

GO TO 3.

2. CHECK ELECTRIC SHIFT CONTROL MODULE GROUND CIRCUIT

1. Power switch OFF.
2. Check continuity between electric shift control module harness connector and ground.

Electric shift control module		—	Continuity
Connector	**Terminal**		
M202	3	Ground	Existed
	4		
	6		
M203	25		

Is the inspection result normal?

YES>>

Replace electric shift control module. Refer to ELECTRIC SHIFT CONTROL MODULE : Removal & Installation.

NO>>

Repair or replace the error-detected parts.

3. DETECT MALFUNCTIONING ITEMS

Check the following items:

- Harness for short or open between electric shift control module harness connector terminal 8 and fuse block (J/B) harness connector terminal 95
- Harness for short or open between electric shift control module harness connector terminal 42 and fuse block (J/B) harness connector terminal 132
- 12V battery (Refer to Work Flow.)
- 10A fuse (#49)
- 10A fuse (#52)

Is the inspection result normal?

YES>>

INSPECTION END

NO>>

Repair or replace the error-detected parts.

SIEMD-7198763

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P072A	00	Stuck In Neutral	Diagnosis condition	READY
			Signal (terminal)	—
			Threshold	After activation of the parking actuator stops, it was detected that the parking actuator is in the neutral position of the manual plate and does not move.
			Diagnosis delay time	5 seconds or more

POSSIBLE CAUSE

Parking actuator (Parking mechanism)

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.

SIEMD-7198764

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.

>>

GO TO 2.

2. 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 5 times as follows.

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

   - P → N → P

5. 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 "P072A-00” detected?

YES>>

Refer to DTC Diagnosis Procedure.

NO>>

INSPECTION END

SIEMD-7198765

1. REPLACEMENT OF REDUCTION GEAR

Replace reduction gear due to the malfunction of parking actuator. Refer to REDUCTION GEAR : Unit Removal & Installation.

>>

END

SIEMD-7198823

DTC DETECTION LOGIC

DTC		CONSULT screen terms	DTC detection condition	
P18A7	00	Shift Signal Off	Diagnosis condition	READY
			Signal (terminal)	Electric shift sensor input signal
			Threshold	It was detected that electric shift sensor No.1 to No.8 were all OFF.
			Diagnosis delay time	3 seconds or more

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

Shift operation is prohibited.

SIEMD-7198824

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.

>>

GO TO 2.

2. CHECK FOR DTC DETECTION

With CONSULT

1. Set the power switch to ON and wait at least 5 seconds.
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 “P18A7–00” 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

SIEMD-7198825

1. ELECTRIC SHIFT SENSOR INPUT SIGNAL INSPECTION

With CONSULT

1. Set the vehicle to READY.
2. Select “Data Monitor” in “SHIFT”.
3. Select “Shift sensor 1” to “Shift sensor 8”.
4. Operate the selector lever and confirm the shift sensor in which the value is not switched.

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

Monitor item	Condition	Value/Status
Shift sensor 1	Selector lever: H (home position) and kept in the R and Nr position	On
	Other than the above	Off
Shift sensor 2	Selector lever: H (home position) and kept in the R and Nr position	On
	Other than the above	Off
Shift sensor 3	Selector lever: H (home position) and kept in the Nr position	On
	Other than the above	Off
Shift sensor 4	Selector lever: H (home position) and kept in the Nr and Nd position	On
	Other than the above	Off
Shift sensor 5	Selector lever: H (home position) and kept in the Nr and Nd position	On
	Other than the above	Off
Shift sensor 6	Selector lever: H (home position) and kept in the Nd position	On
	Other than the above	Off
Shift sensor 7	Selector lever: H (home position) and kept in the Nd and D position	On
	Other than the above	Off
Shift sensor 8	Selector lever: H (home position) and kept in the Nd and D position	On
	Other than the above	Off

Without CONSULT

1. Set the vehicle to READY.
2. Operate the selector lever and check the voltage between electric shift control module harness connector and ground.

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

Electric shift sensor	+		-	Condition	Voltage
	Electric shift control module				
	Connector	Terminal			
No.1	M203	34	Ground	Selector lever: H (home position) and kept in the R	1.4 - 2.0