Front Fog Lamp Circuit

Description

The IPDM E/R (intelligent power distribution module engine room) controls the front fog lamp relay based on inputs from the BCM via the CAN communication lines. When the front fog lamp relay is energized, power flows from the front fog lamp relay in the IPDM E/R to the front fog lamps.

Component Function Check

CHECK FRONT FOG LAMP OPERATION

WITHOUT CONSULT-III

- 1. Activate IPDM E/R auto active test.
- 2. Check that the front fog lamp is turned ON.

@CONSULT-III

- 1. Select "EXTERNAL LAMP" of IPDM E/R active test item.
- 2. With operating the test items, Check that the front fog lamp is turned ON.

FOG : Front fog lamp ON OFF : Front fog lamp OFF

Is the front fog lamp turned ON?

YES >> Front fog lamp circuit is normal.

NO >> Refer to "Diagnosis Procedure"

Diagnosis Procedure

1. CHECK FRONT FOG LAMP FUSE

- 1. Turn the ignition switch OFF.
- 2. Check that the following fuses are not open.

Unit	Location	Fuse No.	Capacity
Front fog lamp	IPDM E/R	56	20A

Is the fuse open?

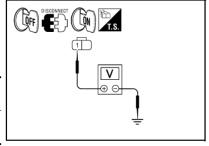
YES >> Repair the harness and replace the fuse.

NO >> GO TO 2

2. CHECK FRONT FOG LAMP OUTPUT VOLTAGE

- 1. Turn the ignition switch OFF.
- 2. Disconnect the front fog lamp connector.
- Turn the ignition switch ON.
- Turn the front fog lamps ON.
- 5. Check the voltage between the fog lamp connector and ground.

(+)		(-)	Voltage	
Connector		Terminal	(-)	voltage
LH	E101	1	Ground	Battery voltage
RH	E102	1	Giodila	



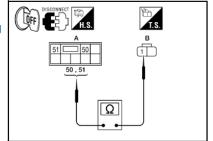
Are the voltage readings as specified?

YES >> GO TO 4 NO >> GO TO 3

3. CHECK FRONT FOG LAMP OPEN CIRCUIT

- Turn the ignition switch OFF.
- Disconnect IPDM E/R connector.
- Check continuity between the IPDM E/R harness connector and the front fog lamp harness connector.

A		В		Continuity		
Conr	Connector Terminal		Connector	Terminal	Continuity	
LH	E123	50	E101	1	Yes	
RH		51	E102	1	162	



Does continuity exist?

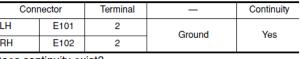
YES >> GO TO 4

>> Repair the harnesses or connectors.

4. CHECK FRONT FOG LAMP GROUND CIRCUIT

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

Coni	nector	Terminal	_	Continuity
LH	E101	2	Ground	Yes
RH	E102	2	Giodila	



Does continuity exist?

YES >> Inspect the fog lamp bulb.

NO >> Repair the harness.

