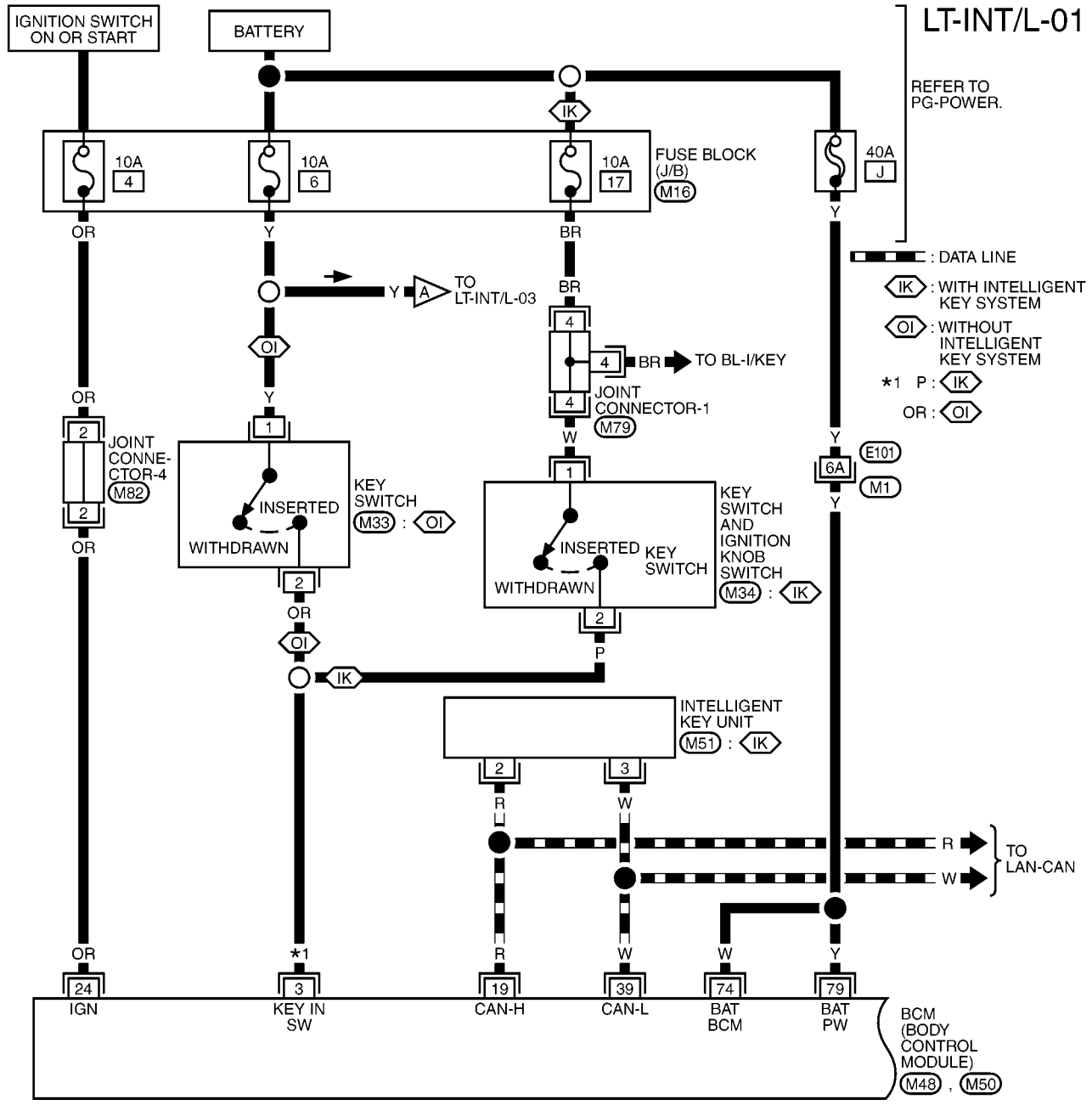
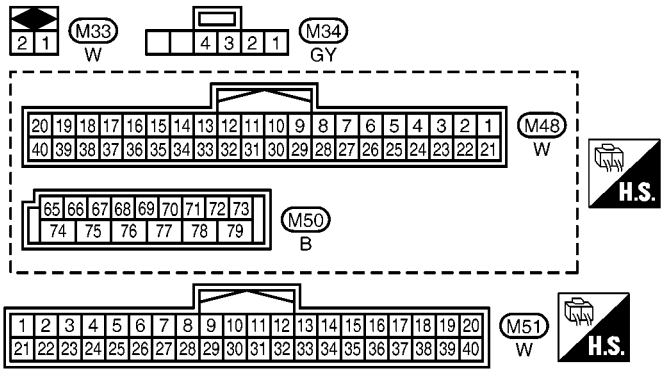
INTERIOR ROOM LAMP

Wiring Diagram — INT/L —

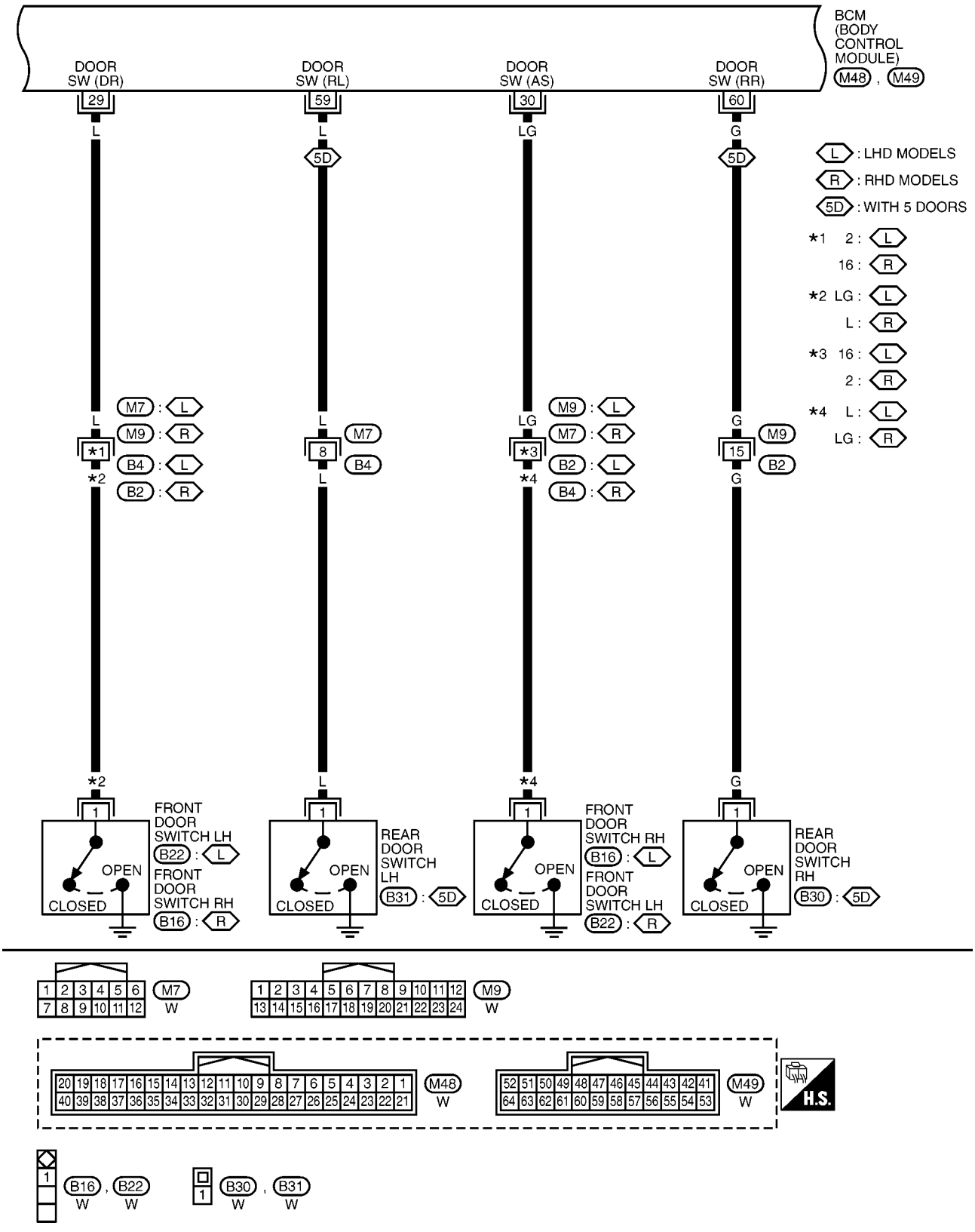




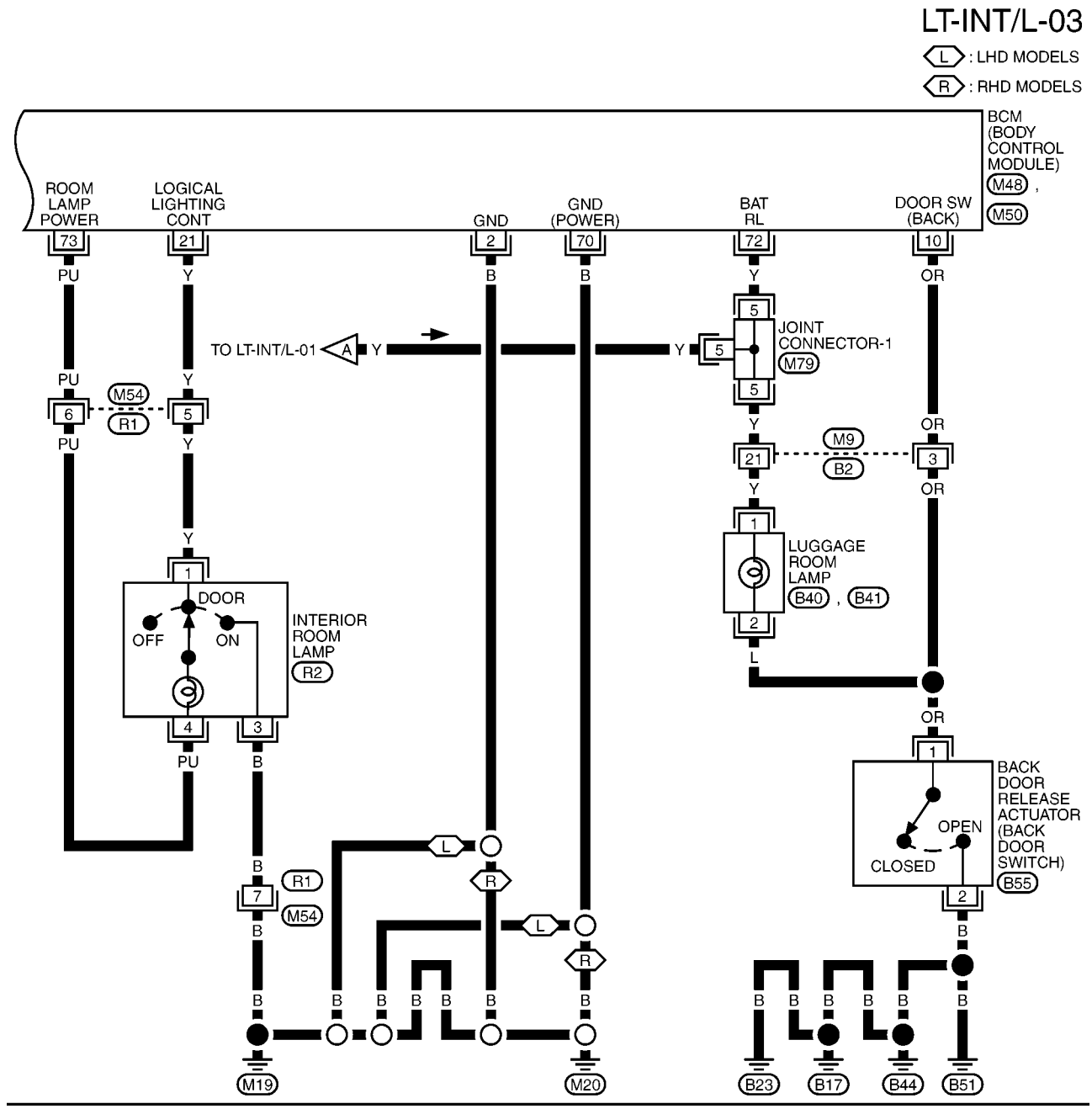
REFER TO THE FOLLOWING.
M1 -SUPER MULTIPLE JUNCTION (SMJ)
M16 -FUSE BLOCK-JUNCTION BOX (J/B)
M79 , M82 -JOINT CONNECTOR (J/C)

MKWA1450E

LT-INT/L-02



MKWA0832E


LT-INT/L-03
L : LHD MODELS
R : RHD MODELS
BCM (BODY CONTROL MODULE) M48, M50
ROOM LAMP POWER
LOGICAL LIGHTING CONT
GND
GND (POWER)
BAT RL
DOOR SW (BACK)
TO LT-INT/L-01
JOINT CONNECTOR-1 M79
LUGGAGE ROOM LAMP B40, B41
INTERIOR ROOM LAMP R2
DOOR
OFF
ON
BACK DOOR RELEASE ACTUATOR (BACK DOOR SWITCH) B55
OPEN
CLOSED
M54
R1
M9
B2
M19
M20
B23
B17
B44
B51
M48
M50
M79
B40
B41
B55
R2
H.S.

MKWA3085E

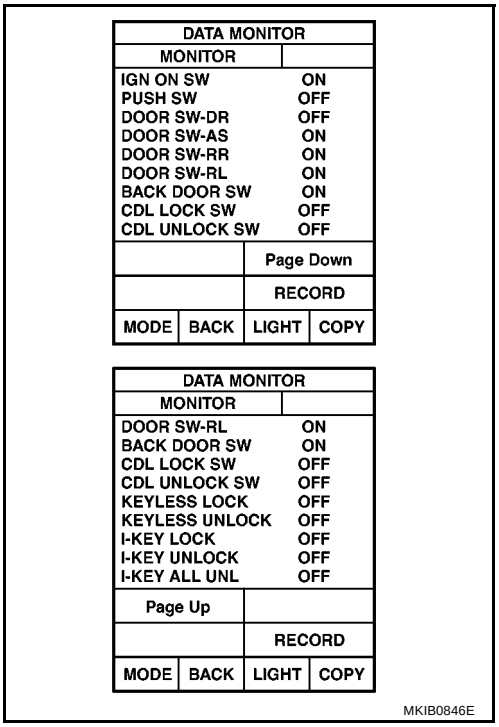
Room Lamp Does Not Operate

1. CHECK SWITCH SIGNAL

To ESM

Select BCM on CONSULT-II.Check following item in “DATA MONITOR” mode with CONSULT-II.

Monitor item	Condition	
IGN ON SW	Ignition switch is in ON position	ON
	Ignition switch is in other position	OFF
PUSH SW	Ignition knob is pushed	ON
	Ignition knob is released	OFF
KEY IN SW	Key is inserted	ON
	Key is removed	OFF
DOOR SW-DR	Front RH door is opened	ON
	Front RH door is closed	OFF
DOOR SW-AS	Front LH door is opened	ON
	Front LH door is closed	OFF
DOOR SW-RR	Rear RH door is opened	ON
	Rear RH door is closed	OFF
DOOR SW-RL	Rear LH door is opened	ON
	Rear LH door is closed	OFF
BACK DOOR SW	Back door is opened	ON
	Back door is closed	OFF
CDL LOCK SW	Lock/unlock switch lock position	ON
	Lock/unlock switch unlock position	OFF
CDL UNLOCK SW	Lock/unlock switch unlock position	ON
	Lock/unlock switch lock position	OFF
KEYLESS LOCK (*2)	Keyless lock/unlock switch lock position	ON
	Keyless lock/unlock switch unlock position	OFF
KEYLESS UNLOCK (*2)	Keyless lock/unlock switch unlock position	ON
	Keyless lock/unlock switch lock position	OFF
I-KEY LOCK (*1)	Intelligent Key lock/unlock switch lock position	ON
	Intelligent Key lock/unlock switch unlock position	OFF
I-KET UNLOCK (*1)	Intelligent Key lock/unlock switch unlock position	ON
	Intelligent Key lock/unlock switch lock position	OFF
I-KEY ALL UNL (*1)	Intelligent Key all door unlock switch unlock position	ON
	Intelligent Key all door unlock switch lock position	OFF



*1: Display for models with Intelligent Key system
*2: Displayed for models without Intelligent Key system

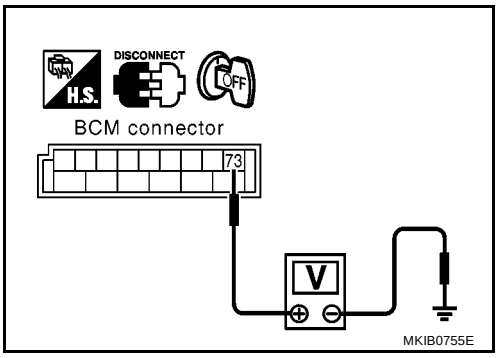
OK or NG

OK >> GO TO 2.
NG >>
- IGN ON SW: Refer to DI-110, “Ignition ON Signal Check” on ESM.
- PUSH SW (with Intelligent Key system): Refer to DI-107, “Key Switch Signal Check/With Intelligent Key System” on ESM.
- KEY IN SW (without Intelligent Key system): Refer to DI-105, “Key Switch Signal Check/Without Intelligent Key System” on ESM.
- OOR SW-DR: Refer to BL-58, “DRIVER SIDE” on ESM.
- DOOR SW-AS: Refer to BL-60, “PASSENGER SIDE” on ESM.

- DOOR SW-RR: Refer to BL-64, “REAR RH SIDE” on ESM.
- DOOR SW-RL: Refer to BL-62, “REAR LH SIDE” on ESM.
- BACK DOOR SW: Refer to BL-66, “Check External Back Door Release Switch” on ESM.
- CDL LOCK/UNLOCK SW: Refer to BL-50, “Check Door Lock / Unlock Switch” on ESM.
- KEYLESS LOCK/UNLOCK: Refer to BL-144, “Remote controller Check” on ESM.
- I-KEY LOCK/UNLOCK: Refer to BL-194, “Check Door Request Switch” on ESM.
- I-KEY ALL UNL: Refer to BL-194, “Check Door Request Switch” on ESM.

2. CHECK BCM OUTPUT SIGNAL

1. Interior room lamp switch is in DOOR position.
2. Check voltage between BCM and ground.



Terminal (+) Connector	Terminal (+) Terminal (Wire color)	Terminal (-)	Condition				Voltage (V)
M50	73 (PU)	Ground	Ignition switch OFF	Key is inserted	Any door switch	ON (open)	Approx. 0
						OFF (closed)	Approx. 12
			—	Close all doors.	Key is removed after being fully inserted.		Approx. 0
					Turn ignition switch ON.		Approx. 12

OK or NG

OK >> GO TO 3.
NG >> Replace BCM.

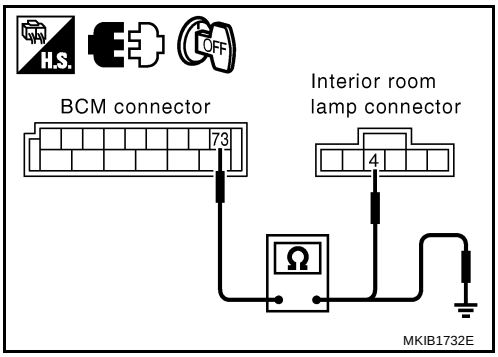
3. CHECK INTERIOR ROOM LAMP INPUT SIGNAL CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and room lamp connector.
3. Check continuity between BCM harness connector M50 terminal 73(PU) and interior room lamp harness connector R2 terminal 4(PU).

Continuity should exist.

4. Check continuity between BCM connector M50 terminal 73 (PU) and ground.

Continuity should not exist.



OK or NG

OK >> GO TO 4.
NG >> Repair or replace harness or connector.

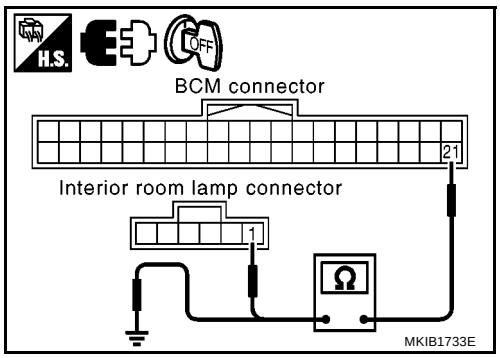
4. CHECK INTERIOR ROOM LAMP GROUND CIRCUIT

1. Check continuity between BCM connector M48 terminal 21(Y) and interior room lamp connector R2 terminal 1 (Y).

   Continuity should exist.

2. Check continuity between BCM connector M48 terminal 21 (Y) and ground.

   Continuity should not exist.

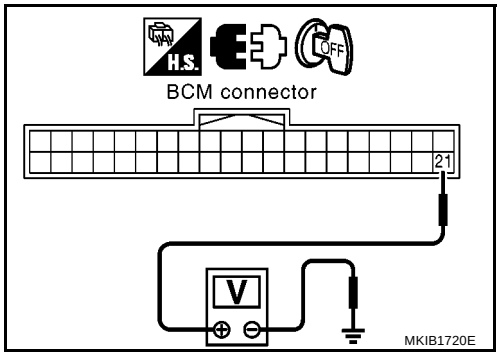


OK or NG

OK >> GO TO 5.
NG >> Repair or replace harness or connector.

5. CHECK BCM OUTPUT SIGNAL

1. Interior room lamp switch is in DOOR position.
2. Connect BCM connector
3. Check voltage between BCM connector terminal and ground.



Terminal No.	Wire color	Signal designation	Measuring condition					Reference value (V)
			Ignition switch	Operation or condition				
21	Y	Logical lighting control	OFF	Room lamp switch: DOOR position	Key is inserted	Any door switch	ON (Open)	Approx. 0
							OFF (Close)	Approx. 12
					Close all doors	Key is removed from key cylinder		Approx. 0
						Turn ignition switch ON		Approx. 12
					Key is removed			Approx. 0
					Interior room lamp timer		OFF	Approx. 12
							ON	Approx. 0

OK or NG

OK >> Check condition of the harness and connector.
NG >> Replace BCM.

Bulb Replacement

To ESM

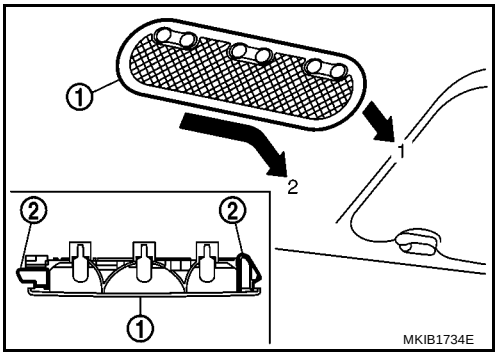
1. Remove interior room lamp. Refer to LT-7,"REMOVAL" in this SMA file.
2. Remove bulbs.

Interior room lamp : 12V - 5W

Removal and Installation

REMOVAL

1. Without damaging the headliner, insert a clip driver in the interior room lamp right side edge to disengage tab(2).
2. Disengage tab(2) of left side, and then disconnect connector.
3. Remove interior room lamp(1).



INSTALLATION

Install in the reverse order of removal.

BULB SPECIFICATIONS

To ESM

Interior Lamp/Illumination

Item	Wattage (W)
Interior room lamp	5
Luggage room lamp	10