SECTION INL
INTERIOR LIGHTING SYSTEM

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000012782890

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. 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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 or batteries, and wait at least three minutes before performing any service.**

Precaution for Work

INFOID:0000000012782891

- When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth.
- When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component with a shop cloth or vinyl tape to protect it.
- Protect the removed parts with a shop cloth and prevent them from being dropped.
- Replace a deformed or damaged clip.
- If a part is specified as a non-reusable part, always replace it with a new one.
- Be sure to tighten bolts and nuts securely to the specified torque.
- After installation is complete, be sure to check that each part works properly.
- Follow the steps below to clean components:

- Water soluble dirt:

- Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area.
- Then rub with a soft, dry cloth.

- Oily dirt:

- Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area.
- Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off.
- Then rub with a soft, dry cloth.

- Do not use organic solvent such as thinner, benzene, alcohol or gasoline.
- For genuine leather seats, use a genuine leather seat cleaner.

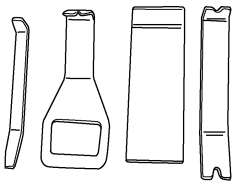
PREPARATION

PREPARATION

Special Service Tools

INFOID:0000000012782892

The actual shape of the tools may differ from those illustrated here.

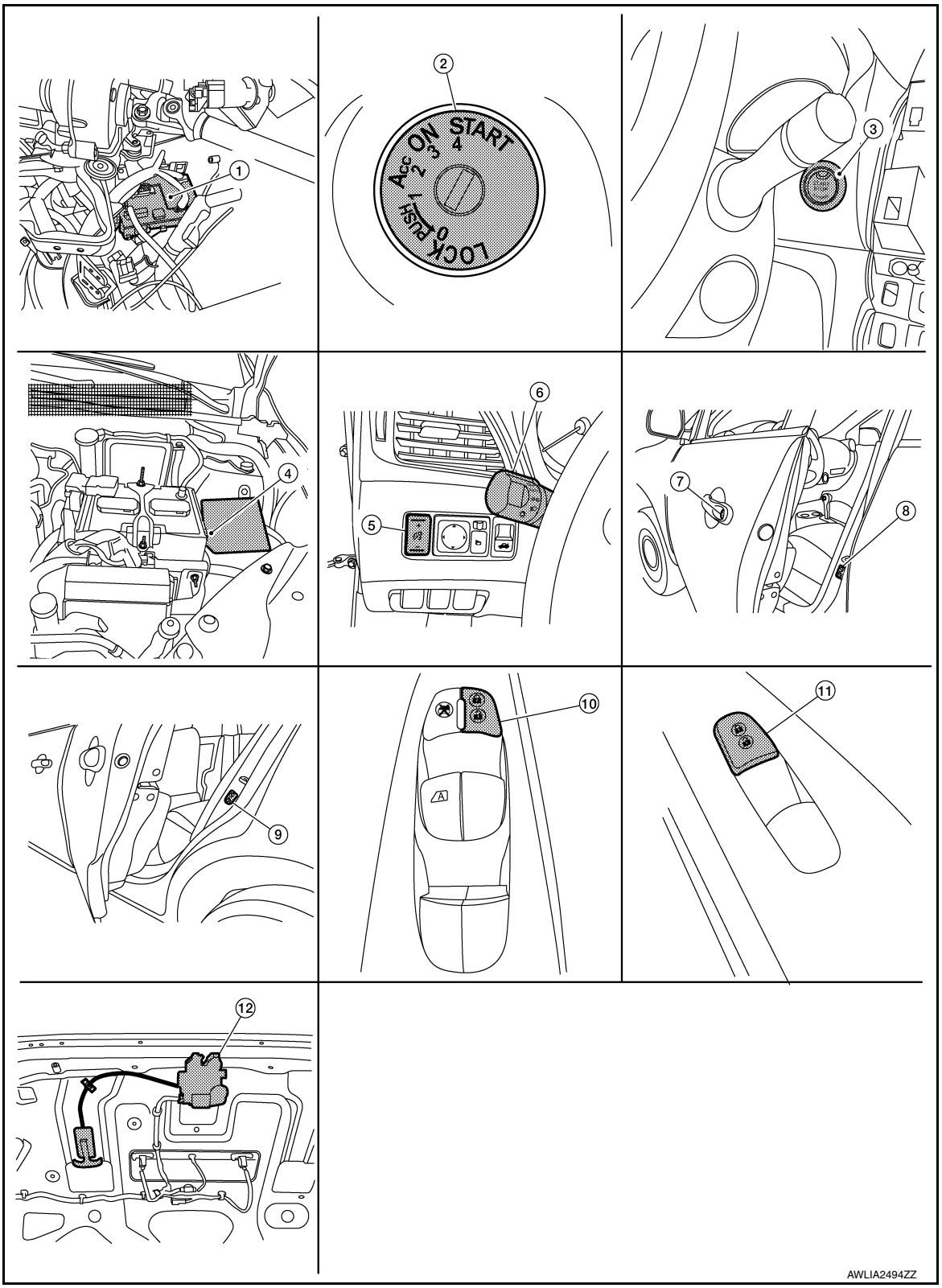
Tool number (TechMate No.) Tool name	Description
— (J-46534) Trim Tool Set  AWJIA0483ZZ	Removing trim components

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000012782893



1. BCM (view with instrument panel removed)
2. Key switch (without Intelligent Key)
3. Push-button ignition switch (with Intelligent Key)
4. IPDM E/R
5. Illumination control switch
6. Combination switch (lighting and turn signal switch)
7. Front door lock assembly LH (key cylinder switch)
8. Front door switch LH (RH similar)
9. Rear door switch LH (RH similar)
10. Main power window and door lock/unlock switch
11. Power window and door lock/unlock switch RH
12. Trunk lid opener assembly

Component Description

INFOID:0000000012782894

Part name	Description
BCM	Provides power and ground and controls timer functions for the interior room lamp, map lamp and trunk room lamp.
IPDM E/R	Provides power and ground and controls timer functions for the interior room lamp, map lamp and trunk room lamp.
Push-button ignition switch (with Intelligent Key)	Provides ignition switch status to the BCM.
Key switch (without Intelligent Key)	Provides key in ignition switch status to the BCM.
Door switches	Provides door OPEN/CLOSED status to the BCM.
Main power window and door lock/unlock switch	Provides door lock/unlock switch LH status to the BCM.
Power window and door lock/unlock switch RH	Provides door lock/unlock switch RH status to the BCM.
Front door lock assembly LH (key cylinder switch)	Provides door lock/unlock switch LH status to the BCM.
Trunk lid opener assembly	Provides trunk lid OPEN/CLOSED status to the BCM.

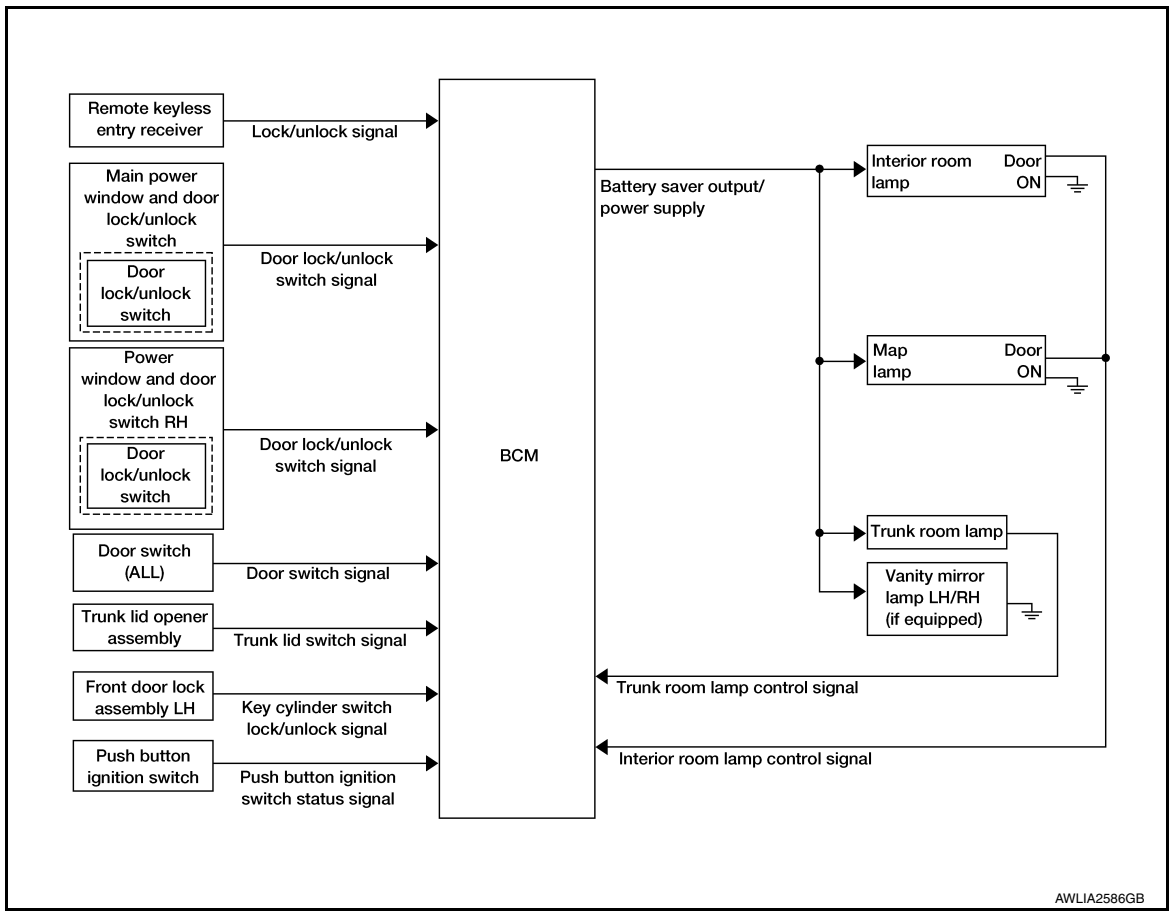
SYSTEM

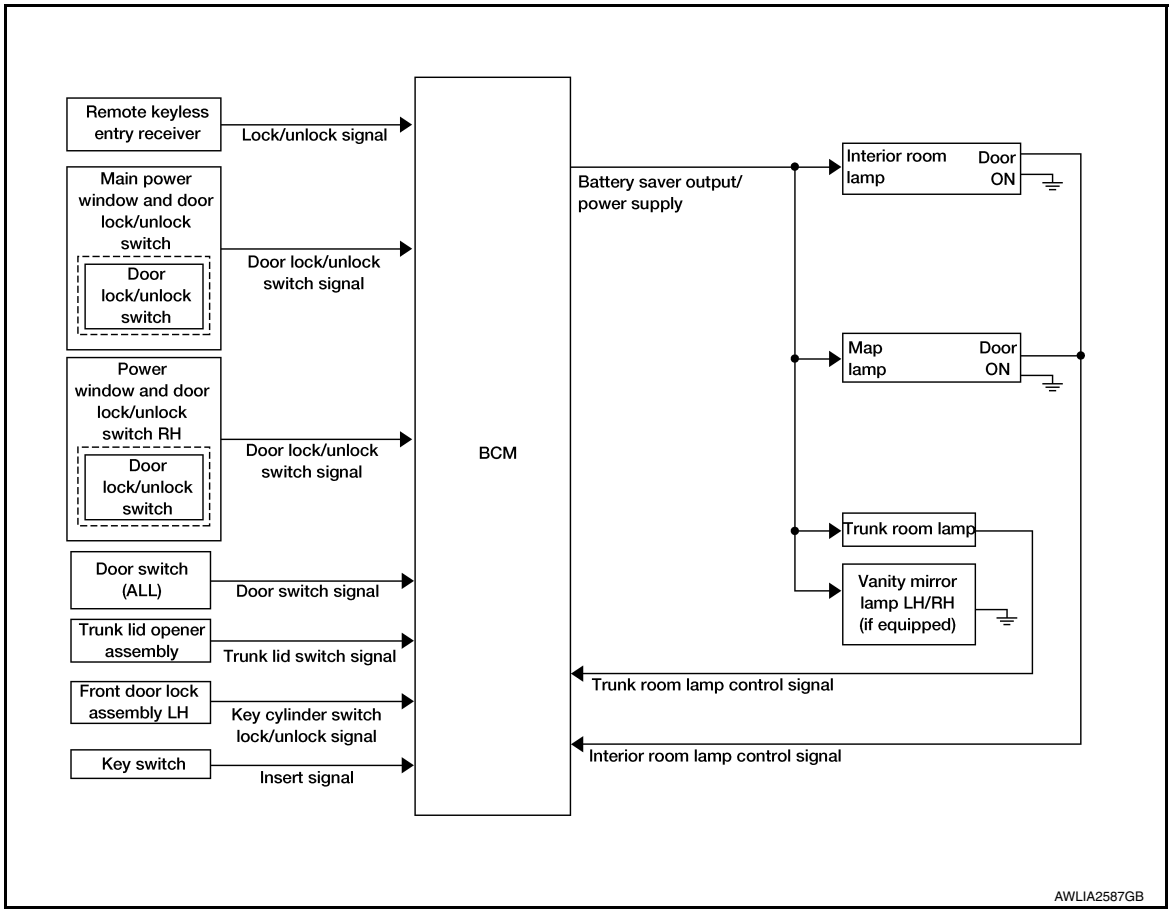
INTERIOR ROOM LAMP CONTROL SYSTEM

INTERIOR ROOM LAMP CONTROL SYSTEM : System Diagram

INFOID:0000000012782895

WITH INTELLIGENT KEY





INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

INFOID:0000000012782896

OUTLINE

- Interior room lamp* is controlled by the interior room lamp timer control function of the BCM.
- Trunk room lamp is controlled by the trunk room lamp control function of the BCM.

The timer control functions of the BCM activate based on inputs from the key cylinder lock/unlock switch LH, the door switches, the key switch and door lock/unlock switches.

*Interior room lamp and map lamp (when lamp switch is in DOOR position).

ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in the DOOR position and when all conditions below are met, the BCM begins timer control (maximum 30 seconds) for interior room lamp ON/OFF.

- When the front door LH is unlocked with key fob, main power window and door lock/unlock switch, power window and door lock/unlock switch RH or front door lock assembly LH (key cylinder switch).
- When a door opens → closes and the push-button ignition switch is not pressed (with Intelligent Key).
- When a door opens → closes and the key is not inserted in the ignition switch (without Intelligent Key).

Timer control is cancelled under the following conditions.

- When the front door LH is locked with key fob, main power window and door lock/unlock switch, power window and door lock/unlock switch RH or front door lock assembly LH (key cylinder switch).
- A door is opened (door switch turns ON).
- Ignition switch is turned ON.

Interior lamp operational settings can be changed with the function setting of CONSULT.

INTERIOR LAMP BATTERY SAVER CONTROL

If an interior lamp is left ON and does not turn OFF even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery 10 minutes after the ignition switch is turned OFF.
The BCM controls power and ground to all interior lamps.

After the battery saver system turns the lamps OFF, the lamps will illuminate again when

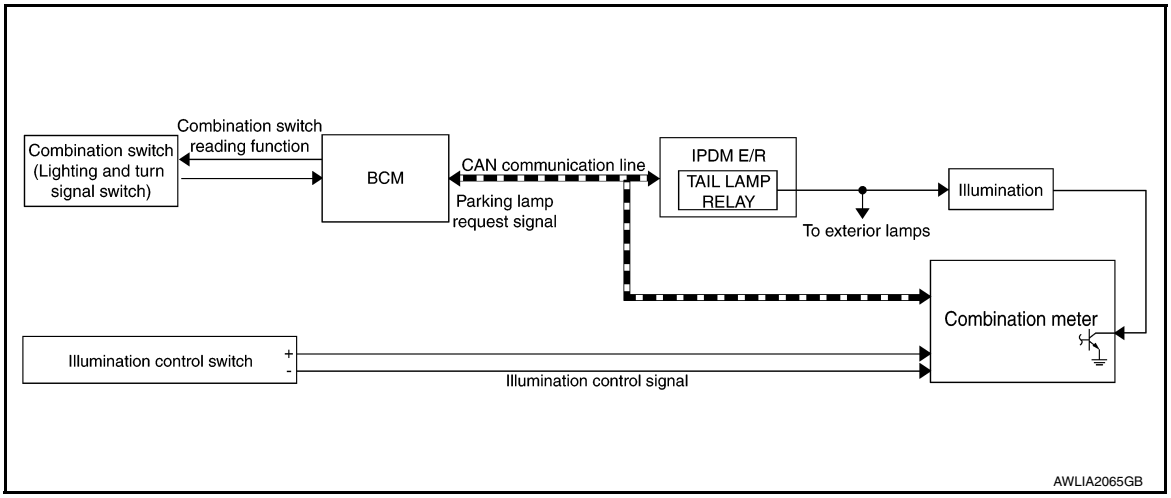
- a signal is received from a key fob, main power window and door lock/unlock switch, power window and door lock/unlock switch RH or when the front door lock assembly LH (key cylinder switch) is locked or unlocked
- a door is opened or closed
- the key is removed from or inserted into the ignition switch (without Intelligent Key).

The interior lamp battery saver control time period can be changed with the function setting of CONSULT.

ILLUMINATION CONTROL SYSTEM

ILLUMINATION CONTROL SYSTEM : System Diagram

INFOID:0000000012782897



ILLUMINATION CONTROL SYSTEM : System Description

INFOID:0000000012782898

The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the AUTO (activated) or parking lamp position the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the parking and illumination lamps, which then illuminate.

BATTERY SAVER CONTROL

When the combination switch (lighting and turn signal switch) is in the AUTO (activated) or parking lamp position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 10 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position is changed, then the illumination lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to AUTO (activated) or parking lamp position after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

DIAGNOSIS SYSTEM (BCM) (WITH INTELLIGENT KEY SYSTEM)
COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000013399762

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK			×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×	×		
Air conditioner	AIR CONDITIONER			×				
Intelligent Key system	INTELLIGENT KEY		×	×	×	×		
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×	×		×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×				
Vehicle security system	THEFT ALM			×	×	×		
RAP system	RETAINED PWR			×				
Signal buffer system	SIGNAL BUFFER				×			
TPMS	AIR PRESSURE MONITOR		×	×	×	×		

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000013399764

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of driver door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test Item	Description
INT LAMP	This test is able to check interior room lamp operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
R LAMP TIMER LOGIC SET	MODE 2		Interior room lamp timer activates with all doors.
	MODE 1*		Interior room lamp timer activates with the driver door only.
SET I/L D-UNLCK INTCON	On*		Interior room lamp timer function ON.
	Off		Interior room lamp timer function OFF.
ROOM LAMP TIMER SET	MODE 4	30 sec.	Sets the interior room lamp ON time. (Timer operating time).
	MODE 3*	15 sec.	
	MODE 2	7.5 sec.	
FOG LAMP OVERRIDE	On*		With fog override function.
	Off		Without fog override function.

*: Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000013399765

DATA MONITOR

Monitor Item [Unit]	Description
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.
PUSH SW [On/Off]	Indicates condition push-button ignition switch.
UNLK SEN -DR [On/Off]	Indicates condition of driver door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of trunk switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
BATTERY SAVER SET	ON*		Exterior lamp battery saver function ON.
	OFF		Exterior lamp battery saver function OFF.
ROOM LAMP TIMER SET	MODE 3*	10 min.	Sets interior room lamp battery saver timer operating time.
	MODE 2	60 min.	
	MODE 1	15 min.	

*: Initial setting

DIAGNOSIS SYSTEM (BCM) (WITHOUT INTELLIGENT KEY SYSTEM) COMMON ITEM

COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

INFOID:0000000013399767

APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description
ECU Identification	The BCM part number is displayed.
Self Diagnostic Result	The BCM self diagnostic results are displayed.
Data Monitor	The BCM input/output data is displayed in real time.
Active Test	The BCM activates outputs to test components.
Work support	The settings for BCM functions can be changed.
Configuration	• The vehicle specification can be read and saved. • The vehicle specification can be written when replacing BCM.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication is displayed.

SYSTEM APPLICATION

BCM can perform the following functions.

System	Sub System	Direct Diagnostic Mode						
		ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN DIAG SUPPORT MNTR
Door lock	DOOR LOCK			×	×	×		
Rear window defogger	REAR DEFOGGER			×	×			
Warning chime	BUZZER			×	×			
Interior room lamp timer	INT LAMP			×	×	×		
Remote keyless entry system	MULTI REMOTE ENT			×	×	×		
Exterior lamp	HEAD LAMP			×	×	×		
Wiper and washer	WIPER			×	×	×		
Turn signal and hazard warning lamps	FLASHER			×	×			
Air conditioner	AIR CONDITIONER			×				
Combination switch	COMB SW			×				
BCM	BCM	×	×			×	×	×
Immobilizer	IMMU		×		×	×		
Interior room lamp battery saver	BATTERY SAVER			×	×	×		
Trunk open	TRUNK			×				
RAP system	RETAINED PWR			×		×		
Signal buffer system	SIGNAL BUFFER			×				
TPMS	AIR PRESSURE MONITOR		×	×	×	×		
Panic alarm system	PANIC ALARM				×			

INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

INFOID:0000000013399768

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
ACC SW [On/Off]	Indicates condition of ignition switch ACC position.

ACTIVE TEST

Test Item	Description
INT LAMP	This test is able to check interior room lamp operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
SET I/L D-UNLCK INTCON	On*		Interior room lamp timer function ON.
	Off		Interior room lamp timer function OFF.
ROOM LAMP TIMER SET	MODE 4	30 sec.	Sets the interior room lamp ON time. (Timer operating time).
	MODE 3*	15 sec.	
	MODE 2	7.5 sec.	
	MODE 1	OFF	
ROOM LAMP ON TIME SET	MODE7	0 sec.	Sets the interior room lamp gradual brightening time.
	MODE6	5 sec.	
	MODE5	4 sec.	
	MODE4	3 sec.	
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	

Support Item	Setting		Description
ROOM LAMP OFF TIME SET	MODE7	0 sec.	Sets the interior room lamp gradual dimming time.
	MODE6	5 sec.	
	MODE5	4 sec.	
	MODE4	3 sec.	
	MODE3	2 sec.	
	MODE2*	1 sec.	
	MODE1	0.5 sec.	
R LAMP TIMER LOGIC SET	MODE 2		Interior room lamp timer activates with all doors.
	MODE 1*		Interior room lamp timer activates with the driver door only.

* : Initial setting

BATTERY SAVER

BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

INFOID:0000000013399769

DATA MONITOR

Monitor Item [Unit]	Description
IGN ON SW [On/Off]	Indicates condition of ignition switch ON position.
KEY ON SW [On/Off]	Indicates condition of key switch.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEYLESS LOCK [On/Off]	Indicates condition of lock signal from keyfob.
KEYLESS UNLOCK [On/Off]	Indicates condition of unlock signal from keyfob.
TRNK/HAT MNTR [On/Off]	Indicates condition of trunk lid switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
ACC SW [On/Off]	Indicates condition of ignition switch ACC position.

ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

WORK SUPPORT

Support Item	Setting		Description
ROOM LAMP TIMER SET	MODE 3*	10 min.	Sets interior room lamp battery saver timer operating time.
	MODE 2	60 min.	
	MODE 1	15 min.	

* : Initial setting

ECU DIAGNOSIS INFORMATION

BCM

List of ECU Reference

INFOID:0000000012782905

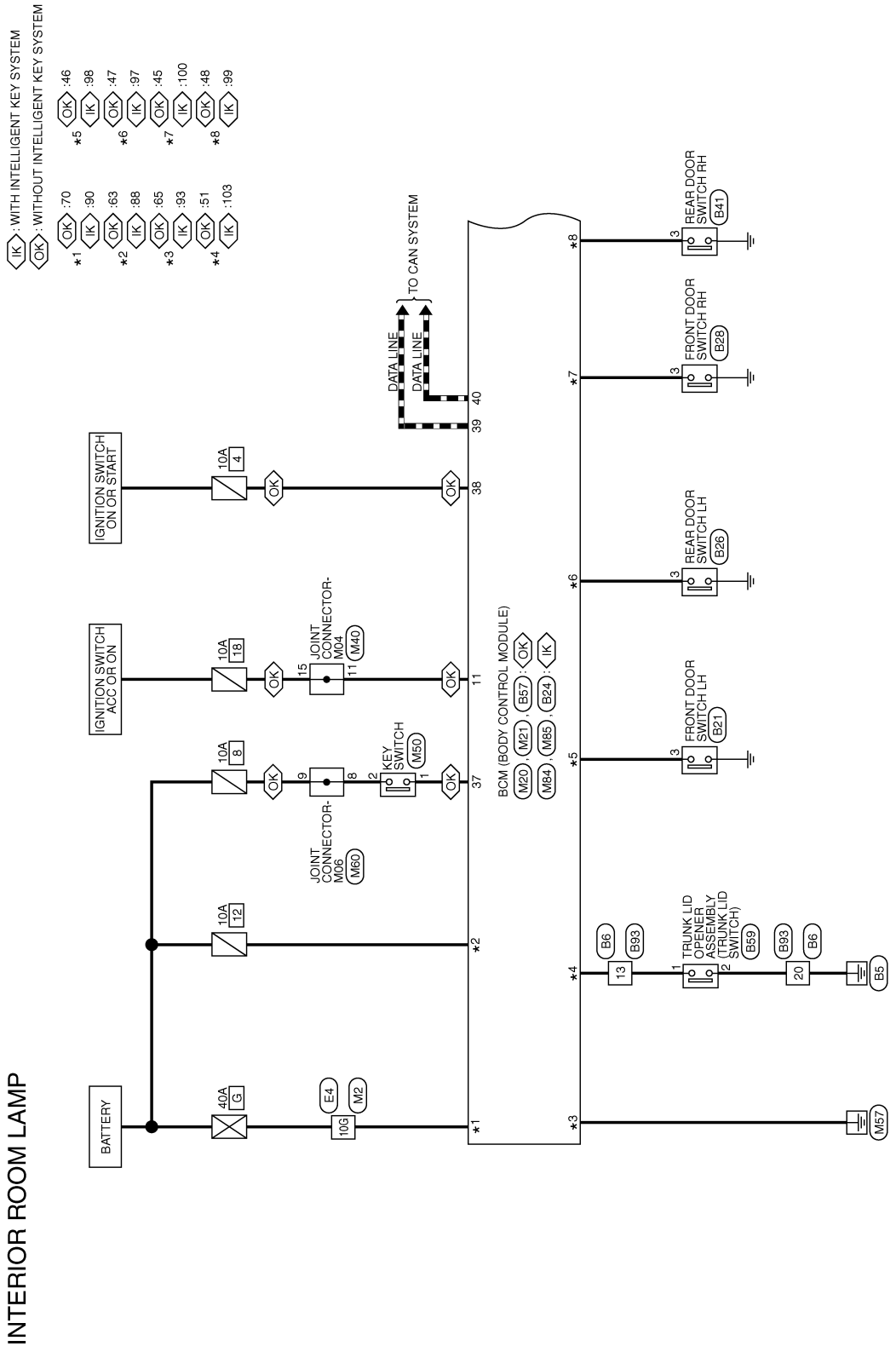
ECU	Reference
BCM (with Intelligent Key)	BCS-30, "Reference Value"
	BCS-48, "Fail-safe"
	BCS-49, "DTC Inspection Priority Chart"
	BCS-50, "DTC Index"
BCM (without Intelligent Key)	BCS-103, "Reference Value"
	BCS-114, "Fail-safe"
	BCS-115, "DTC Inspection Priority Chart"
	BCS-115, "DTC Index"

WIRING DIAGRAM

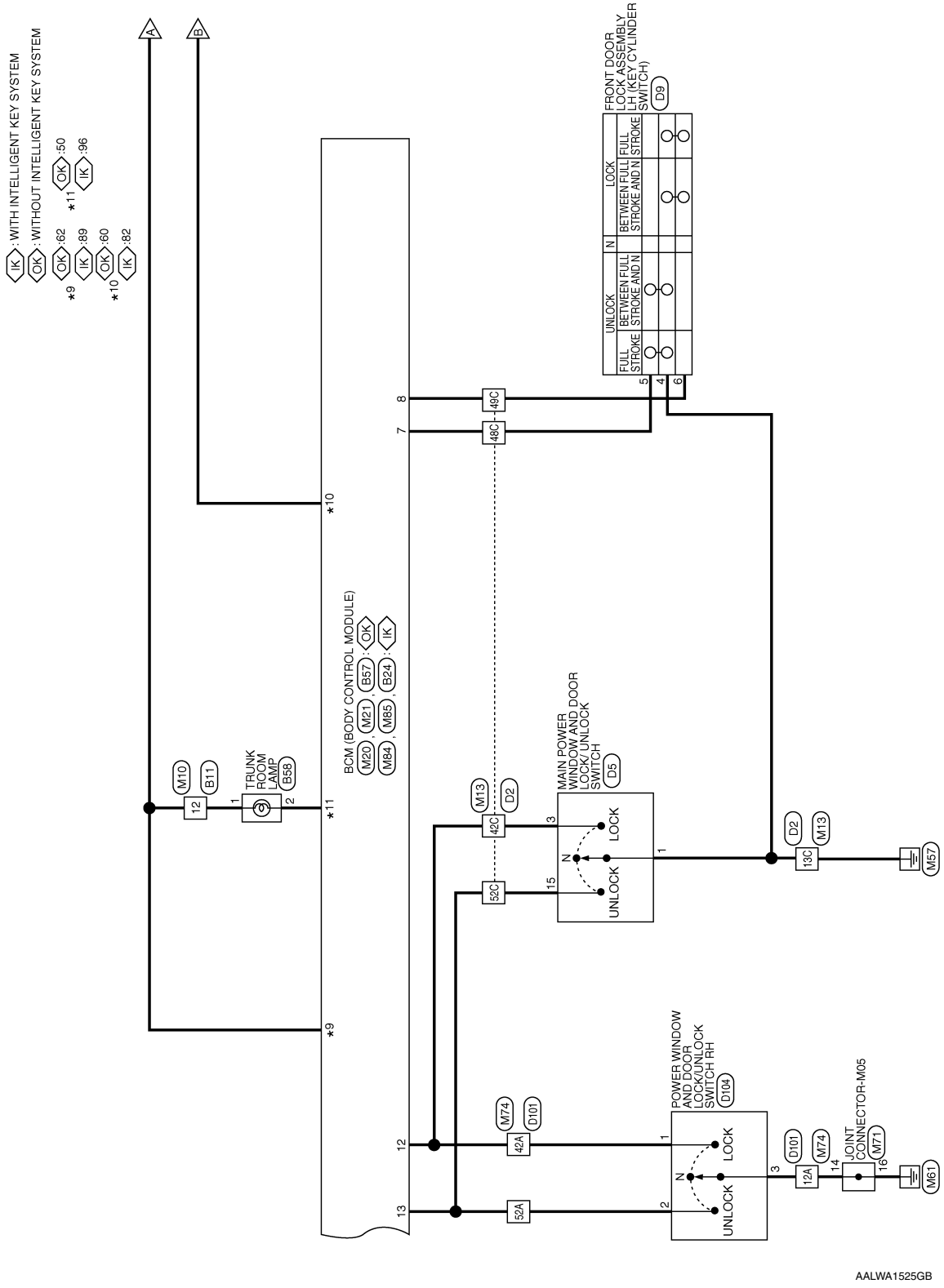
INTERIOR ROOM LAMP CONTROL SYSTEM

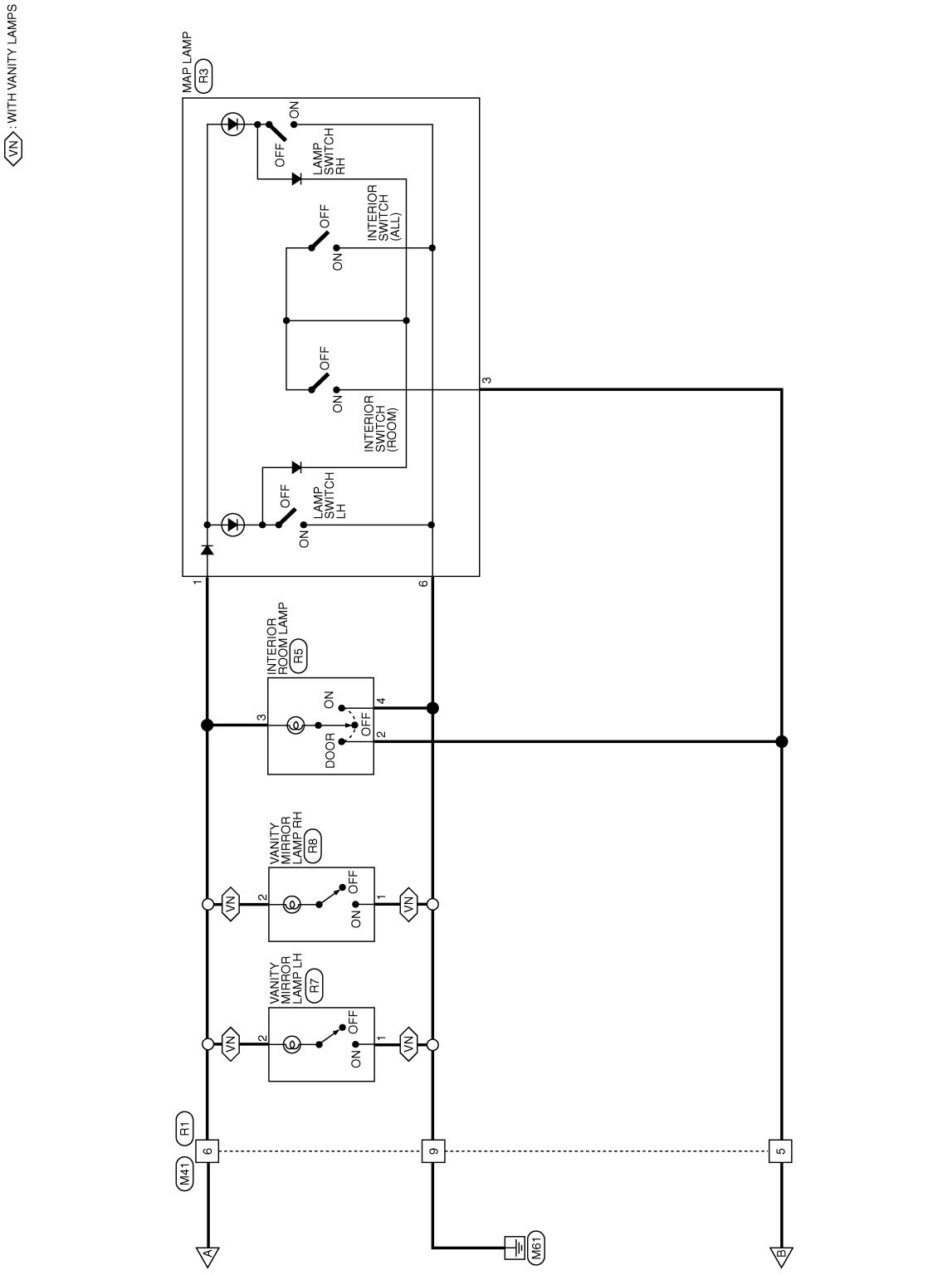
Wiring Diagram

INFOID:0000000012782906



AALWA1524GB

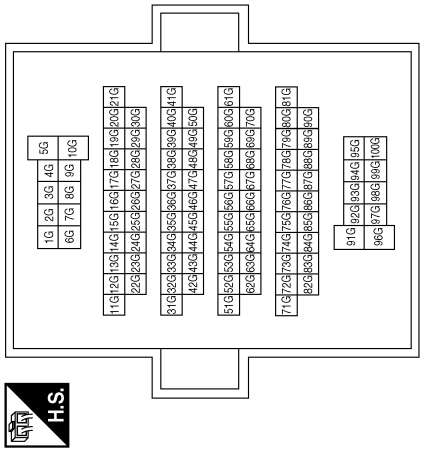

IK : WITH INTELLIGENT KEY SYSTEM
OK : WITHOUT INTELLIGENT KEY SYSTEM
OK :62 *9
IK :89
OK :60 *10
IK :82
OK :50 *11
IK :96
A
B
FRONT DOOR LOCK ASSEMBLY LH (KEY CYLINDER SWITCH) D9
UNLOCK
FULL STROKE
BETWEEN FULL STROKE AND N
N
LOCK
BETWEEN FULL STROKE AND N
FULL STROKE
5
4
6
8
7
49C
48C
*10
BCM (BODY CONTROL MODULE)
M20, M21, B57 : OK
M84, M85, B24 : IK
*11
*9
M10
B11
12
1
TRUNK ROOM LAMP B58
2
M13
42C
D2
3
MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH D5
LOCK
N
UNLOCK
1
15
52C
D2
M13
13C
M57
M74
42A
D101
12
POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH D104
LOCK
N
UNLOCK
1
2
13
52A
D101
M74
12A
3
14
JOINT CONNECTOR-M05
16
M71
M61
AALWA1525GB


VN : WITH VANITY LAMPS
MAP LAMP
R3
LAMP SWITCH RH
INTERIOR SWITCH (ALL)
INTERIOR SWITCH (ROOM)
LAMP SWITCH LH
OFF
ON
INTERIOR ROOM LAMP
R5
DOOR
VANITY MIRROR LAMP RH
R8
VANITY MIRROR LAMP LH
R7
VN
R1
M41
M61
A
B
AALWA1526GB

INTERIOR ROOM LAMP CONNECTORS

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

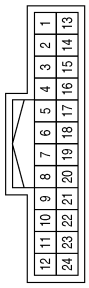
H.S.



Terminal No.	Color of Wire	Signal Name
10G	Y	–

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Color	WHITE

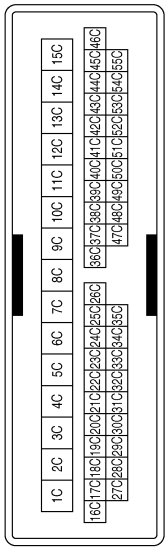
H.S.



Terminal No.	Color of Wire	Signal Name
12	P	–

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
13C	B	–
42C	GR	–
48C	L	–
49C	V	–
52C	BR	–

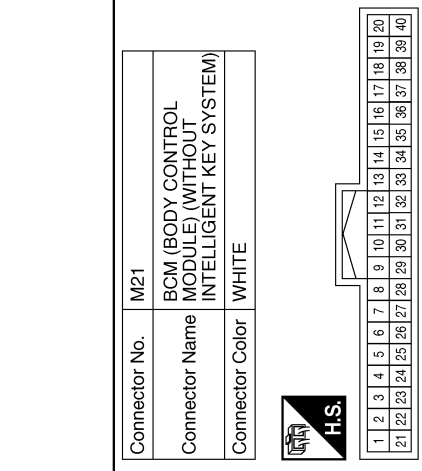
Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
60	BR	ROOM LAMP OUTPUT
62	P	BATTERY SAVER OUTPUT
63	BG	BATTERY (FUSE)
65	B	GND
70	Y	BATTERY (F/L)

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW

Terminal No.	Color of Wire	Signal Name
11	L	ACC SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
37	GR	KEY SW
38	R	IGN SW
39	L	CAN-H
40	P	CAN-L

AALIA4462GB

Connector No.	M40
Connector Name	JOINT CONNECTOR-M04
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
11	L	–
15	L	–

Connector No.	M41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
5	BR	–
6	P	–
9	B	–

Connector No.	M50
Connector Name	KEY SWITCH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	BR	–

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
8	BR	–
9	W	–

Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
14	B	–
16	B	–

Connector No.	M74
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
12A	B	–
42A	GR	–
52A	BR	–

AALIA4463GB

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
7	L	KEY CYLINDER UNLOCK SW
8	V	KEY CYLINDER LOCK SW
12	GR	CENTRAL DOOR LOCK SW
13	BR	CENTRAL DOOR UNLOCK SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.

89	88	87	86	85	84	83	82	81
95	94	93	92	91	90			

Terminal No.	Color of Wire	Signal Name
82	BR	ROOM LAMP OUTPUT
88	BG	BATTERY (FUSE)
89	P	BATTERY SAVER OUTPUT
90	Y	BATTERY (F/L)
93	B	GND (POWER)

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

5G	4G	3G	2G	1G
10G	9G	8G	7G	6G

21G	20G	19G	18G	17G	16G	15G	14G	13G	12G	11G
30G	29G	28G	27G	26G	25G	24G	23G	22G		

41G	40G	39G	38G	37G	36G	35G	34G	33G	32G	31G
50G	49G	48G	47G	46G	45G	44G	43G	42G		

61G	60G	59G	58G	57G	56G	55G	54G	53G	52G	51G
70G	69G	68G	67G	66G	65G	64G	63G	62G		

81G	80G	79G	78G	77G	76G	75G	74G	73G	72G	71G
90G	89G	88G	87G	86G	85G	84G	83G	82G		

95G	94G	93G	92G	91G
100G	99G	98G	97G	96G

Terminal No.	Color of Wire	Signal Name
10G	G	–

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

6	5	4		3	2	1
20	19	13	12	11	10	9	8	7
		18	17	16	15	14		

Terminal No.	Color of Wire	Signal Name
13	V	–
20	B	–

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name
12	BR	–

Connector No.	B21
Connector Name	FRONT DOOR SWITCH LH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	Y	–

AALIA4464GB

Connector No.	B24
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

H.S.

104	103	102	101	100	99	98	97	96
110	109	108	107	106	105			

Terminal No.	Color of Wire	Signal Name
96	LG	LUGGAGE LAMP OUTPUT
97	GR	DOOR SW (RL)
98	Y	DOOR SW (DR)
99	P	DOOR SW (RR)
100	R	DOOR SW (AS)
103	V	TRUNK/GLASS HATCH SW

Connector No.	B41
Connector Name	REAR DOOR SWITCH RH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	P	–

Connector No.	B26
Connector Name	REAR DOOR SWITCH LH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	GR	–

Connector No.	B28
Connector Name	FRONT DOOR SWITCH RH
Connector Color	WHITE

H.S.

1	2	3	4

Terminal No.	Color of Wire	Signal Name
3	R	–

Connector No.	B57
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

H.S.

49	48	47	46	45	44	43	42	41
55	54	53	52	51	50			

Terminal No.	Color of Wire	Signal Name
45	R	DOOR SW (AS)
46	Y	DOOR SW (DR)
47	GR	DOOR SW (RL)
48	P	DOOR SW (RR)
50	LG	LUGGAGE LAMP OUTPUT
51	V	TRUNK SW

Connector No.	B58
Connector Name	TRUNK ROOM LAMP
Connector Color	WHITE

H.S.

1
2

Terminal No.	Color of Wire	Signal Name
1	BR	–
2	LG	–

AALIA4465GB

Connector No.	B59
Connector Name	TRUNK LID OPENER ASSEMBLY
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	–
2	B	–

Connector No.	B93
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
13	R	–
20	B	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
5	BR	–
6	P	–
9	B	–

Connector No.	R3
Connector Name	MAP LAMP
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
3	BR	–
6	B	–

Connector No.	R5
Connector Name	INTERIOR ROOM LAMP
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
2	BR	–
3	P	–
4	B	–

Connector No.	R7
Connector Name	VANITY MIRROR LAMP LH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
2	P	–

AALIA4466GB

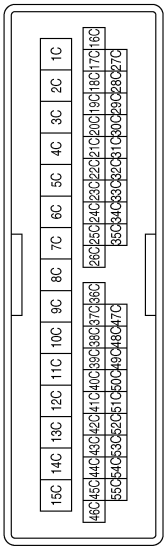
Connector No.	R8
Connector Name	VANITY MIRROR LAMP RH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	B	–
2	P	–

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

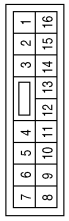
H.S.



Terminal No.	Color of Wire	Signal Name
13C	B	–
42C	L	–
48C	Y	–
49C	R	–
52C	BR	–

Connector No.	D5
Connector Name	MAIN POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	GND
3	L	LOCK SW
15	BR	UNLOCK SW

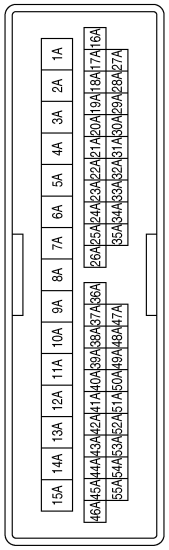
Connector No.	D9
Connector Name	FRONT DOOR LOCK ASSEMBLY LH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
4	B	–
5	Y	–
6	R	–

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
12A	B	–
42A	Y	–
52A	BR	–

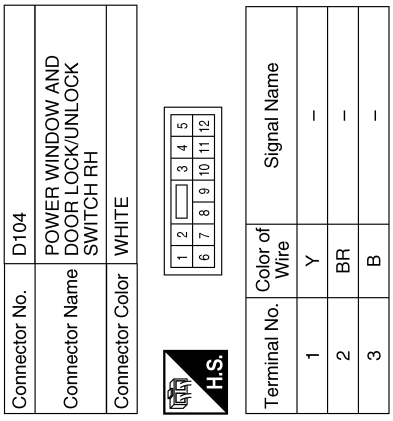
AALIA4467GB

Connector No.	D104
Connector Name	POWER WINDOW AND DOOR LOCK/UNLOCK SWITCH RH
Connector Color	WHITE

H.S.

1	2		3	4	5
6	7	8	9	10	11	12

Terminal No.	Color of Wire	Signal Name
1	Y	–
2	BR	–
3	B	–

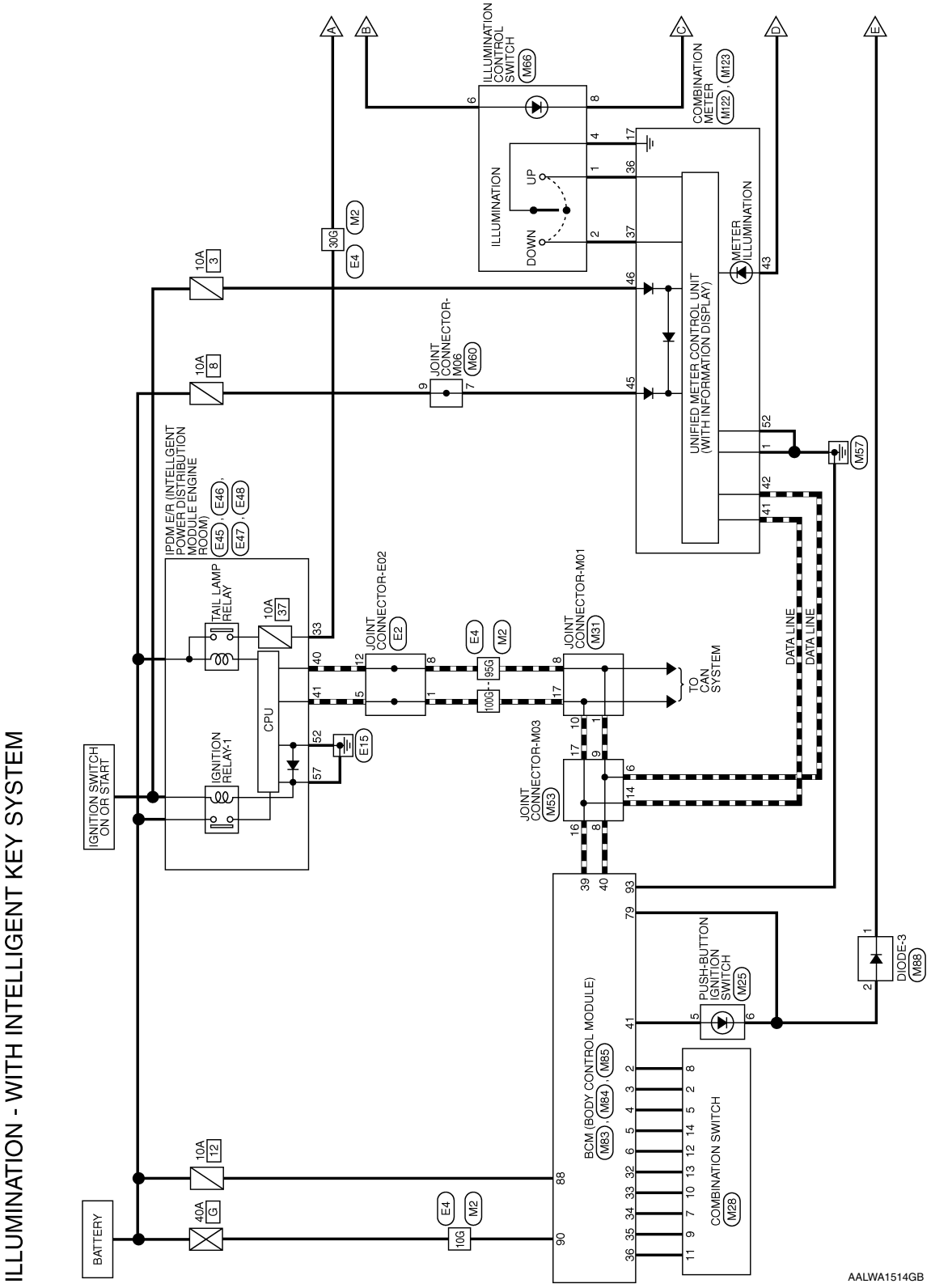


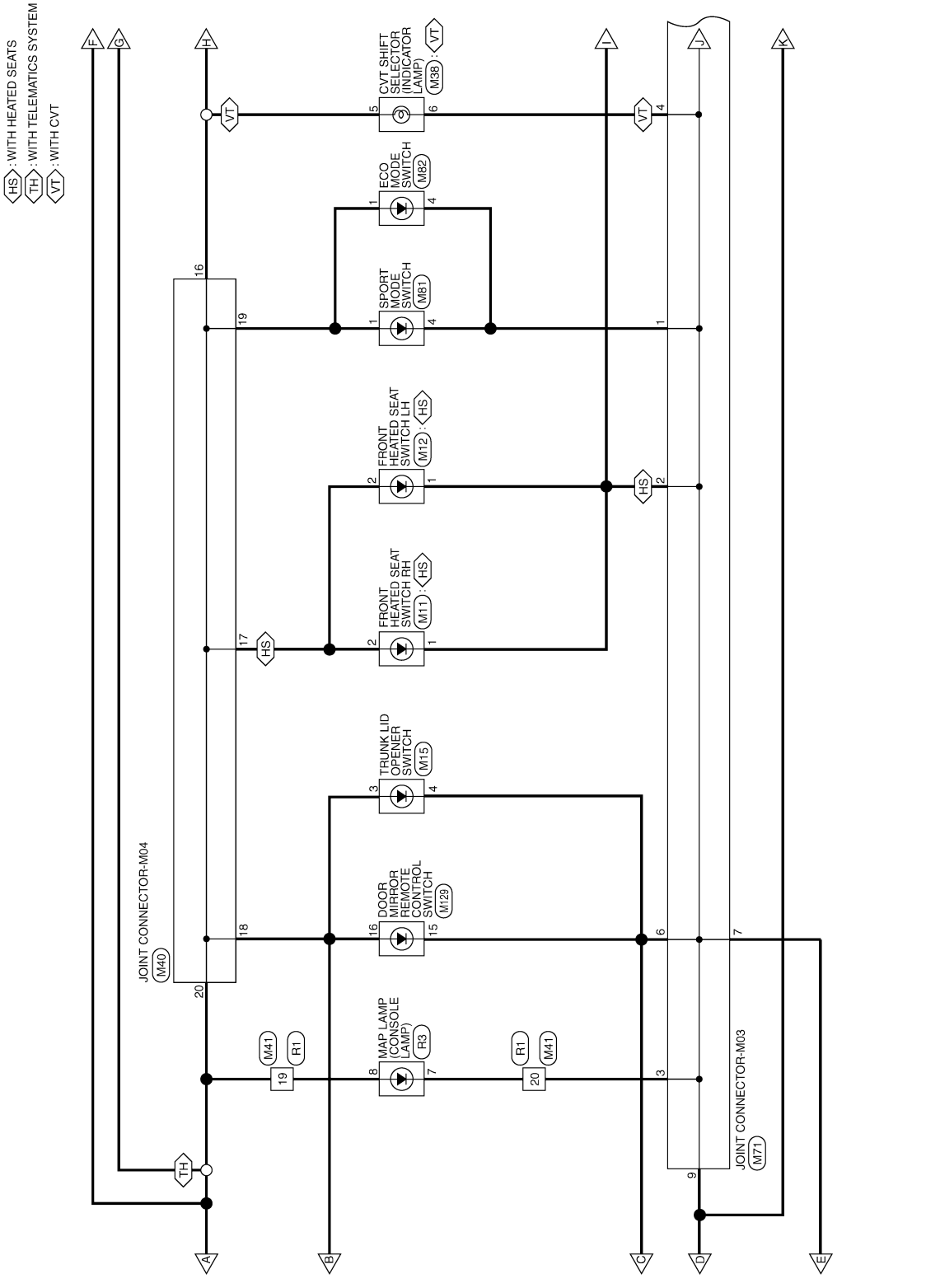
AALIA4468GB

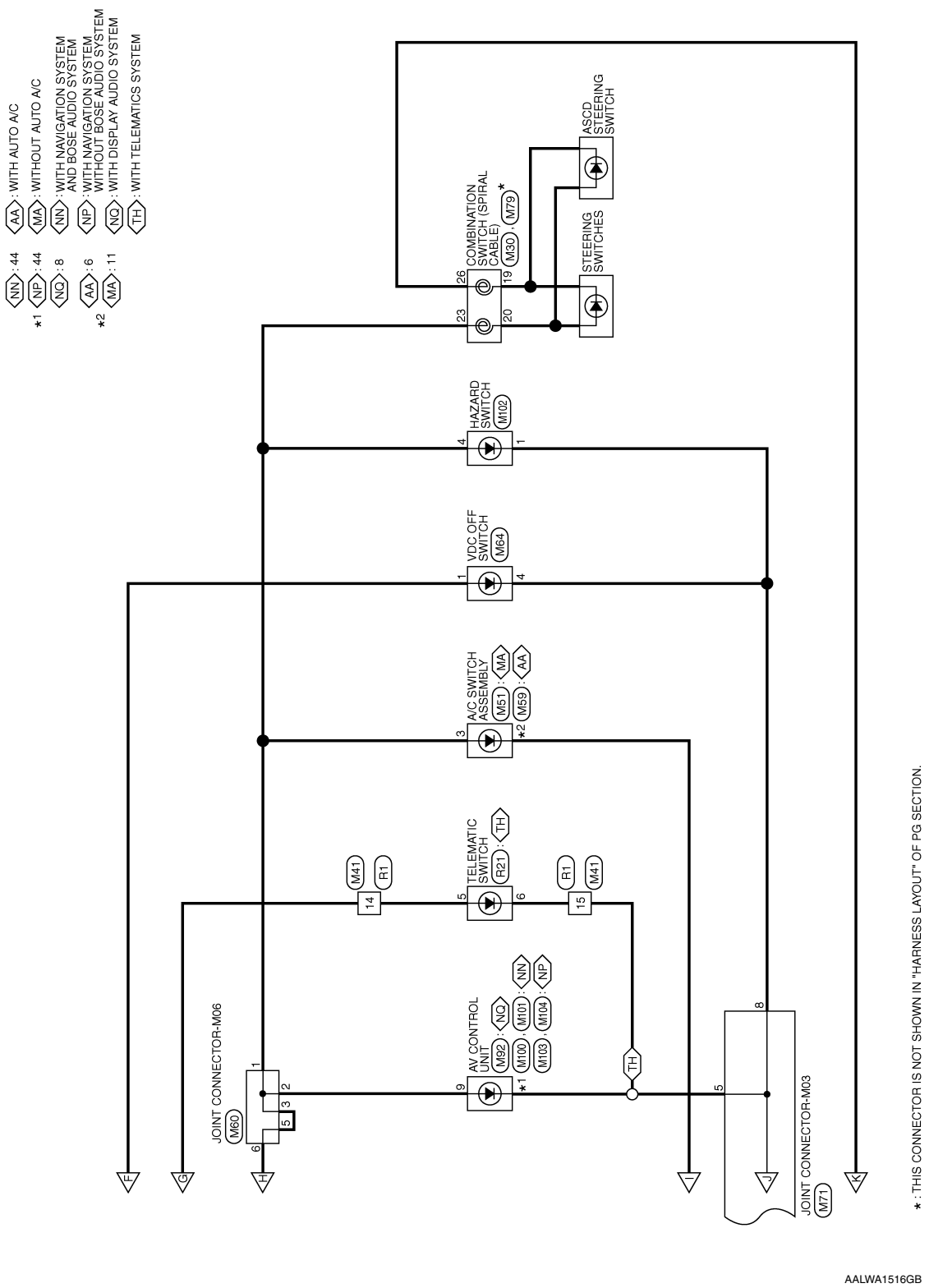
ILLUMINATION
WITH INTELLIGENT KEY

WITH INTELLIGENT KEY : Wiring Diagram

INFOID:0000000012782907




HS : WITH HEATED SEATS
TH : WITH TELEMATICS SYSTEM
VT : WITH CVT
CVT SHIFT SELECTOR (INDICATOR LAMP) M38 : VT
ECO MODE SWITCH M82
SPORT MODE SWITCH M81
FRONT HEATED SEAT SWITCH LH M12 : HS
FRONT HEATED SEAT SWITCH RH M11 : HS
TRUNK LID OPENER SWITCH M15
DOOR MIRROR REMOTE CONTROL SWITCH M129
MAP LAMP (CONSOLE LAMP) R3
JOINT CONNECTOR-M04 M40
JOINT CONNECTOR-M03 M71
M41 R1
R1 M41
F G H I J K
A B C D E
AALWA1515GB

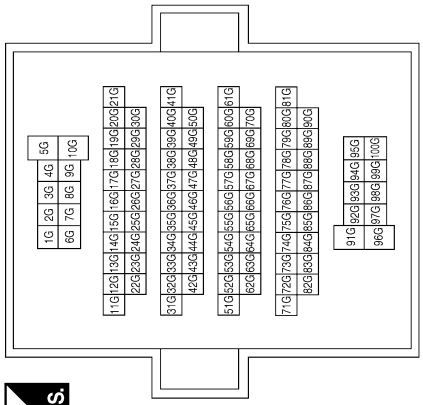


AALWA1516GB

ILLUMINATION CONNECTORS - WITH INTELLIGENT KEY SYSTEM

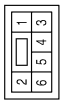
Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.



Connector No.	M11
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Color	BROWN

H.S.

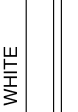


Terminal No.	Color of Wire	Signal Name
1	B	–
2	V	–

Terminal No.	Color of Wire	Signal Name
10G	Y	–
30G	V	–
95G	P	–
100G	L	–

Connector No.	M12
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
1	B	–
2	V	–

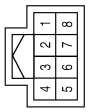
Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
3	V	–
4	B	–

Connector No.	M25
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Color	WHITE

H.S.



Terminal No.	Color of Wire	Signal Name
5	W	–
6	R	–

AALIA4478GB

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
2	GR	–
5	BR	–
7	V	–
8	L	–
9	R	–
10	Y	–
11	SB	–
12	W	–
13	LG	–
14	BG	–

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	YELLOW

H.S.

Terminal No.	Color of Wire	Signal Name
23	V	–
26	B	–

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	P	–
8	P	–
10	L	–
17	L	–

Connector No.	M38
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
5	V	–
6	GR	–

Connector No.	M40
Connector Name	JOINT CONNECTOR-M04
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
16	V	–
17	V	–
18	V	–
19	V	–
20	V	–

Connector No.	M41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
14	V	–
15	GR	–
19	V	–
20	GR	–

AALIA4479GB

Connector No.	M59
Connector Name	A/C SWITCH ASSEMBLY (WITH AUTO A/C)
Connector Color	BLACK

H.S.

1	2	3	4	5
6	7	8	9	10

Terminal No.	Color of Wire	Signal Name
3	V	–
6	GR	–

Connector No.	M66
Connector Name	ILLUMINATION CONTROL SWITCH
Connector Color	WHITE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	R	–
2	Y	–
4	B	–
6	V	–
8	B	–

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	BLUE

H.S.

9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
6	P	–
8	P	–
9	P	–
14	L	–
16	L	–
17	L	–

Connector No.	M64
Connector Name	VDC OFF SWITCH
Connector Color	BLACK

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	–
4	GR	–

Connector No.	M51
Connector Name	A/C SWITCH ASSEMBLY (WITHOUT AUTO A/C)
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
3	V	–
11	GR	–

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	WHITE

H.S.

9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
1	V	–
2	V	–
3	V	–
5	V	–
6	V	–
7	LG	–
9	W	–

AALIA4480GB

Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE

H.S.

9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	GR	–
3	GR	–
4	GR	–
5	GR	–
6	GR	–
7	GR	–
8	GR	–
9	B	–

Connector No.	M79
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY

H.S.

20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name
19	P	–
20	Y	–

Connector No.	M81
Connector Name	SPORT MODE SWITCH
Connector Color	BLUE

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	–
4	B	–

Connector No.	M82
Connector Name	ECO MODE SWITCH
Connector Color	GRAY

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
1	V	–
4	GR	–

Connector No.	M83
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.

60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

Terminal No.	Color of Wire	Signal Name
41	W	HIGH SIDE ENGINE SW ILLUMINATION LED
79	R	LOW SIDE ENGINE START SW ILLUMINATION LED OUTPUT

AALIA4481GB

Connector No.	M84
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	BLACK

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
2	L	COMBINATION SW INPUT 5
3	GR	COMBINATION SW INPUT 4
4	BR	COMBINATION SW INPUT 3

Terminal No.	Color of Wire	Signal Name
5	BG	COMBINATION SW INPUT 2
6	W	COMBINATION SW INPUT 1
32	LG	COMBINATION SW OUTPUT 5
33	Y	COMBINATION SW OUTPUT 4
34	V	COMBINATION SW OUTPUT 3
35	R	COMBINATION SW OUTPUT 2
36	SB	COMBINATION SW OUTPUT 1
39	L	CAN-H
40	P	CAN-L

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE) (WITH INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.

89	88	87	86	85	84	83	82	81
95	94	93	92	91	90			

Terminal No.	Color of Wire	Signal Name
88	BG	BATTERY (FUSE)
90	Y	BATTERY (F/L)
93	B	GND (POWER)

Connector No.	M100
Connector Name	AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITH BOSE AUDIO SYSTEM)
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19								20

Terminal No.	Color of Wire	Signal Name
9	V	ILL (+)

Connector No.	M92
Connector Name	AV CONTROL UNIT (WITH DISPLAY AUDIO SYSTEM)
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9
10	11	12	13	14	15	16	17	18
19								20

Terminal No.	Color of Wire	Signal Name
8	GR	ILL (-)
9	V	ILL (+)

Connector No.	M88
Connector Name	DIODE-3
Connector Color	BLACK

H.S.

1	2

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	R	–

AALIA4482GB

Connector No.	M101
Connector Name	AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITH BOSE AUDIO SYSTEM)
Connector Color	WHITE

H.S.

32	31	30	29	28	27	26	25	24	23	22	21
44	43	42	41	40	39	38	37	36	35	34	33

Terminal No.	Color of Wire	Signal Name
44	GR	ILL (-)

Connector No.	M102
Connector Name	HAZARD SWITCH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	GR	–
4	V	–

Connector No.	M103
Connector Name	AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITHOUT BOSE AUDIO SYSTEM)
Connector Color	WHITE

H.S.

19	1	2	3	4	5	6	7	8	9	20
	10	11	12	13	14	15	16	17	18	

Terminal No.	Color of Wire	Signal Name
9	V	ILL (+)

Connector No.	M104
Connector Name	AV CONTROL UNIT (WITH NAVIGATION SYSTEM WITHOUT BOSE AUDIO SYSTEM)
Connector Color	WHITE

H.S.

32	31	30	29	28	27	26	25	24	23	22	21
44	43	42	41	40	39	38	37	36	35	34	33

Terminal No.	Color of Wire	Signal Name
44	GR	ILL (-)

Connector No.	M122
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
1	B	GND
17	B	SATELLITE SW GND
36	R	ILL UP SW
37	Y	ILL DOWN SW

Connector No.	M123
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

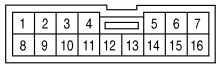
41	42	43	44	45	46
47	48	49	50	51	52

Terminal No.	Color of Wire	Signal Name
41	L	CAN-H
42	P	CAN-L
43	B	ILL CONT OUT
45	LG	BAT
46	GR	IGN
52	B	GND

AALIA4483GB

Connector No.	M129
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE

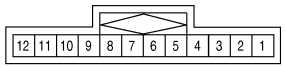
H.S.



Terminal No.	Color of Wire	Signal Name
15	GR	–
16	V	–

Connector No.	E2
Connector Name	JOINT CONNECTOR-E02
Connector Color	BLUE

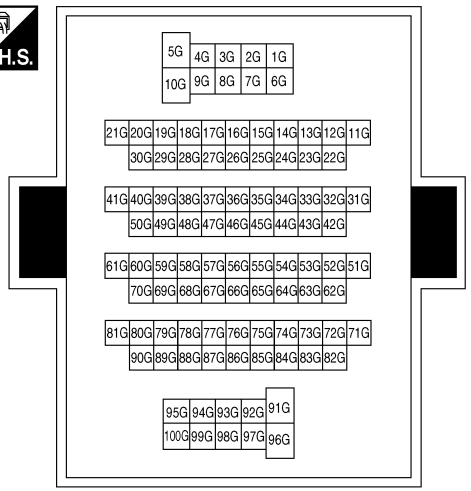
H.S.



Terminal No.	Color of Wire	Signal Name
1	L	–
5	L	–
8	P	–
12	P	–

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

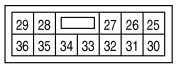


AALIA448GB

Terminal No.	Color of Wire	Signal Name
10G	G	–
30G	V	–
95G	P	–
100G	L	–

Connector No.	E45
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

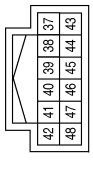
H.S.



Terminal No.	Color of Wire	Signal Name
33	V	CLEARANCE/L LH

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

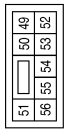
H.S.



Terminal No.	Color of Wire	Signal Name
40	P	CAN-L
41	L	CAN-H

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

H.S.



Terminal No.	Color of Wire	Signal Name
52	B/Y	GND (SIGNAL)

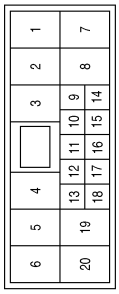
Connector No.	E48
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
57	B/Y	GND (POWER)

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

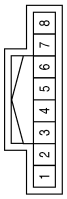
H.S.



Terminal No.	Color of Wire	Signal Name
14	V	–
15	GR	–
19	L	–
20	GR	–

Connector No.	R3
Connector Name	MAP LAMP
Connector Color	WHITE

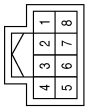
H.S.



Terminal No.	Color of Wire	Signal Name
7	GR	–
8	L	–

Connector No.	R21
Connector Name	TELEMATIC SWITCH
Connector Color	WHITE

H.S.



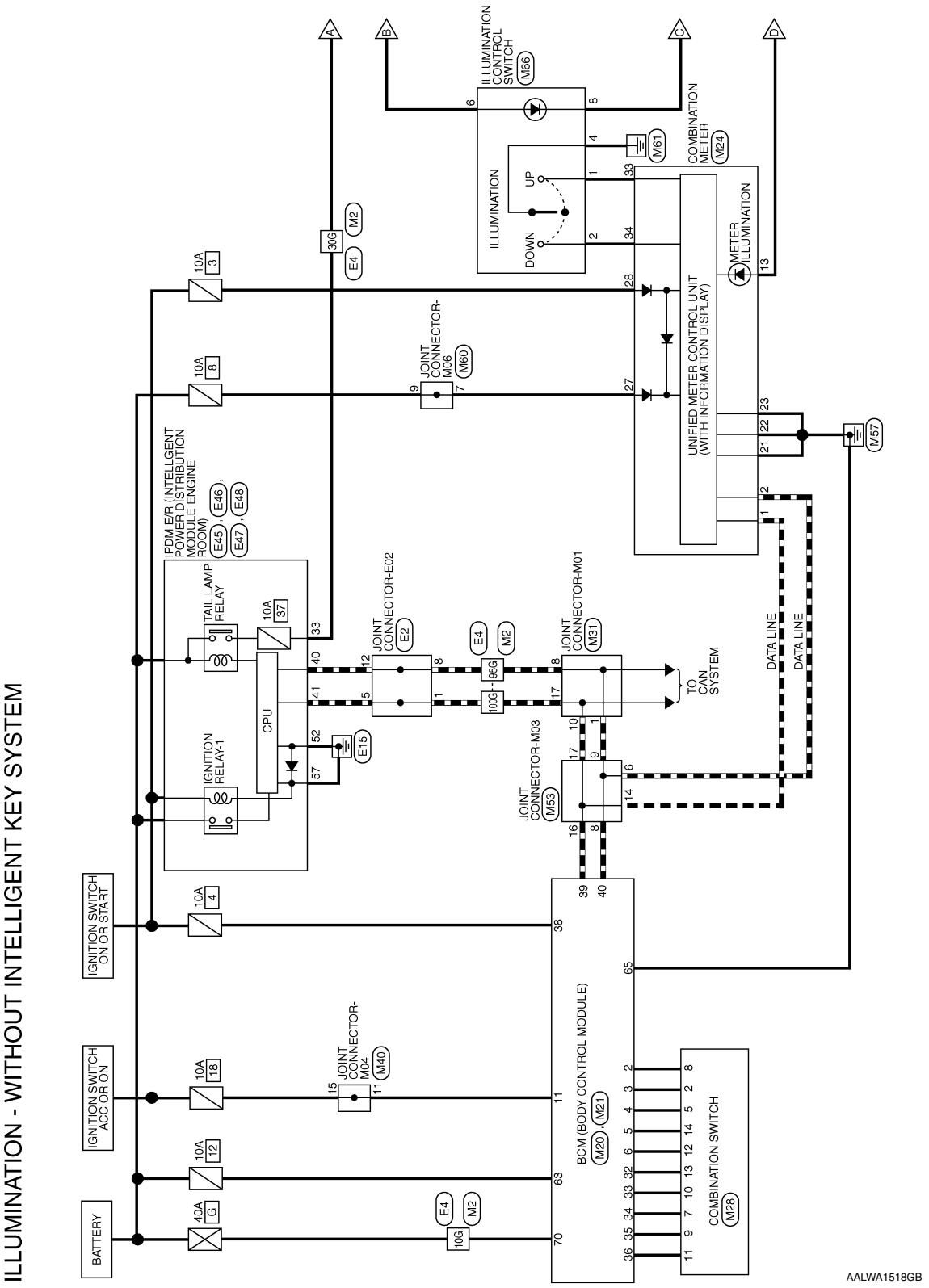
Terminal No.	Color of Wire	Signal Name
5	V	–
6	GR	–

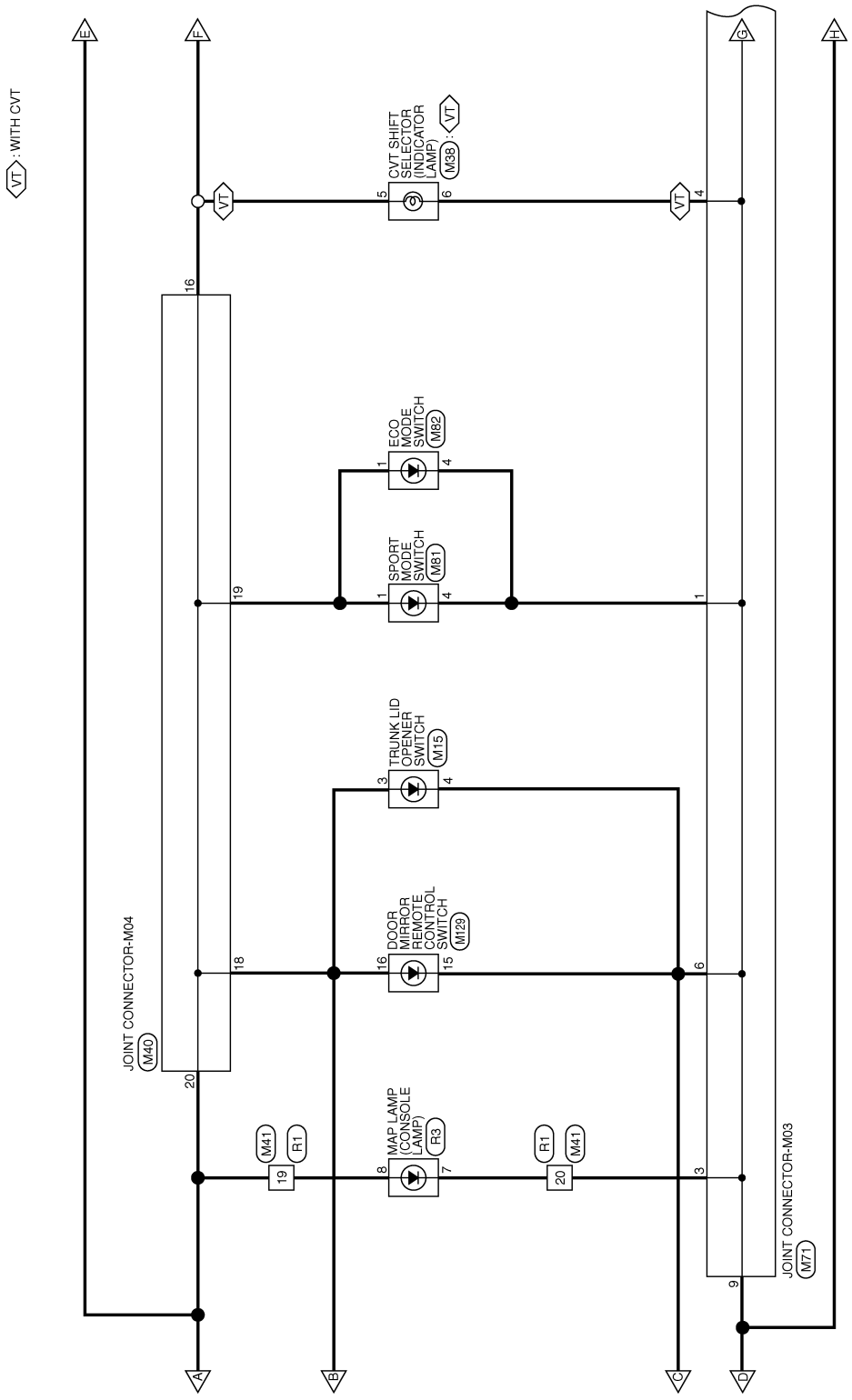
AALIA4485GB

WITHOUT INTELLIGENT KEY

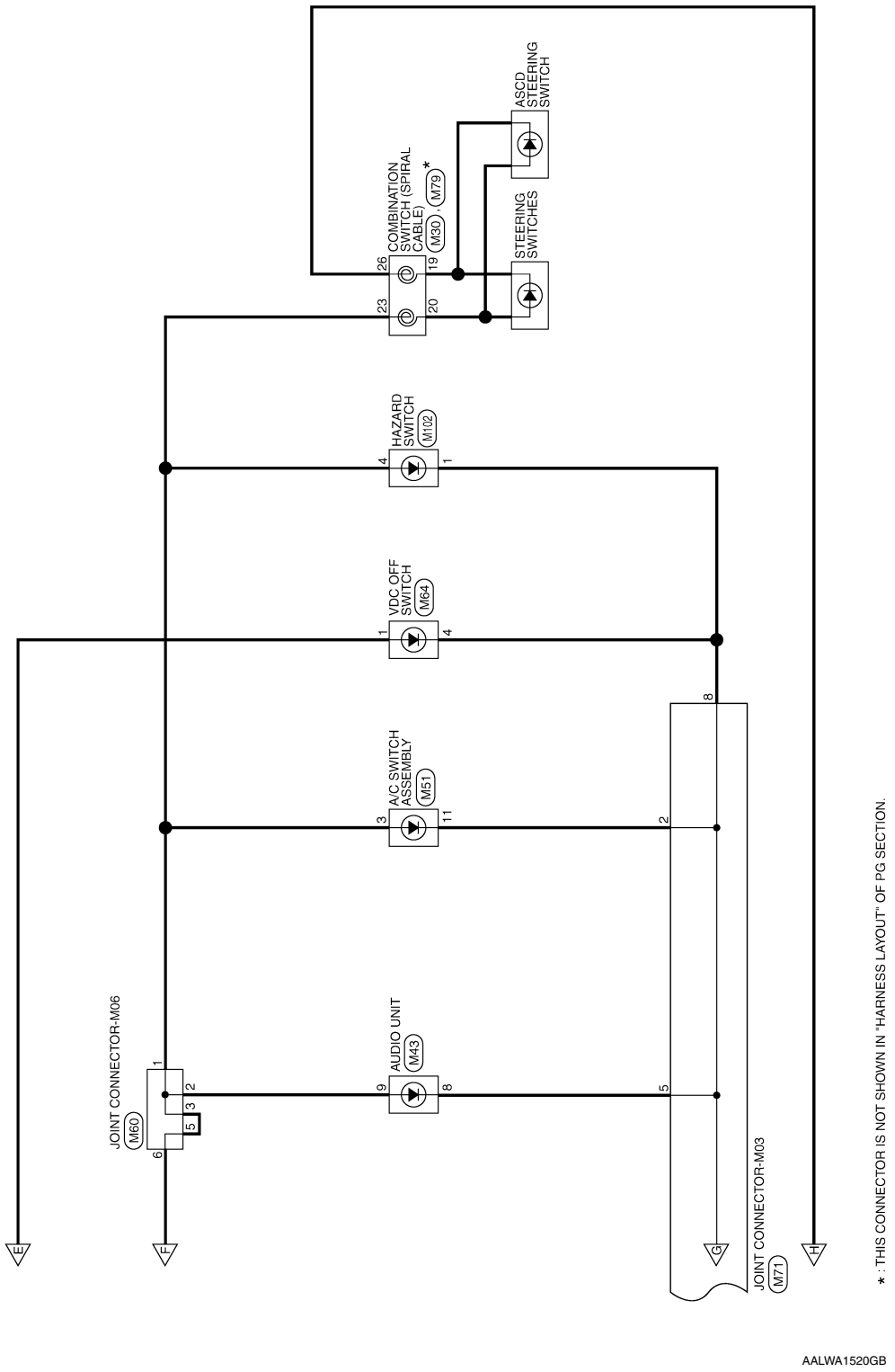
WITHOUT INTELLIGENT KEY : Wiring Diagram

INFOID:0000000013399904





AALWA1519GB



AALWA1520GB

ILLUMINATION CONNECTORS - WITHOUT INTELLIGENT KEY SYSTEM

Connector No.	M2
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

1G	2G	3G	4G	5G
6G	7G	8G	9G	10G

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
22G	23G	24G	25G	26G	27G	28G	29G	30G		

31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
42G	43G	44G	45G	46G	47G	48G	49G	50G		

51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
62G	63G	64G	65G	66G	67G	68G	69G	70G		

71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
82G	83G	84G	85G	86G	87G	88G	89G	90G		

91G	92G	93G	94G	95G
96G	97G	98G	99G	100G

Terminal No.	Color of Wire	Signal Name
10G	Y	–
30G	V	–
95G	P	–
100G	L	–

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.

64	63	62	61	60	59	58	57	56
70	69	68	67	66	65			

Terminal No.	Color of Wire	Signal Name
63	BG	BATTERY (FUSE)
65	B	GND
70	Y	BATTERY (F/L)

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE) (WITHOUT INTELLIGENT KEY SYSTEM)
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name
2	L	COMBINATION SW INPUT 5
3	GR	COMBINATION SW INPUT 4
4	BR	COMBINATION SW INPUT 3
5	BG	COMBINATION SW INPUT 2

Terminal No.	Color of Wire	Signal Name
6	W	COMBINATION SW INPUT 1
11	L	ACC SW
32	LG	COMBINATION SW OUTPUT 5
33	Y	COMBINATION SW OUTPUT 4
34	V	COMBINATION SW OUTPUT 3
35	R	COMBINATION SW OUTPUT 2
36	SB	COMBINATION SW OUTPUT 1
38	R	IGN SW
39	L	CAN-H
40	P	CAN-L

Connector No.	M15
Connector Name	TRUNK LID OPENER SWITCH
Connector Color	WHITE

H.S.

4	3	2	1

Terminal No.	Color of Wire	Signal Name
3	V	–
4	B	–

AALIA4489GB

Connector No.	M24
Connector Name	COMBINATION METER
Connector Color	WHITE

H.S.

20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
1	L	CAN-H
2	P	CAN-L
13	B	OUTSIDE ILL OUTPUT
21	B	GND (ILLUMINATION)
22	B	GND (POWER)
23	B	GND (CIRCUIT)
27	LG	BAT
28	GR	IGN
33	R	ILL CONT SW +
34	Y	ILL CONT SW -

Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Color	WHITE

H.S.

1	2	3			4	5	6
7	8	9	10	11	12	13	14

Terminal No.	Color of Wire	Signal Name
2	GR	–
5	BR	–
7	V	–
8	L	–
9	R	–
10	Y	–
11	SB	–
12	W	–
13	LG	–
14	BG	–

Connector No.	M30
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	YELLOW

H.S.

23	26	34
28	29	30

Terminal No.	Color of Wire	Signal Name
23	V	–
26	B	–

Connector No.	M31
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE

H.S.

9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
1	P	–
8	P	–
10	L	–
17	L	–

Connector No.	M38
Connector Name	CVT SHIFT SELECTOR
Connector Color	WHITE

H.S.

8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

Terminal No.	Color of Wire	Signal Name
5	V	–
6	GR	–

Connector No.	M40
Connector Name	JOINT CONNECTOR-M04
Connector Color	WHITE

H.S.

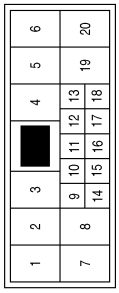
9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11	10

Terminal No.	Color of Wire	Signal Name
11	L	–
15	L	–
16	V	–
18	V	–
19	V	–
20	V	–

AALIA4490GB

Connector No.	M41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

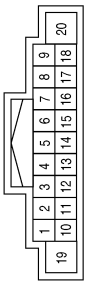
H.S.



Terminal No.	Color of Wire	Signal Name
19	V	–
20	GR	–

Connector No.	M43
Connector Name	AUDIO UNIT (WITH BASE AUDIO SYSTEM)
Connector Color	WHITE

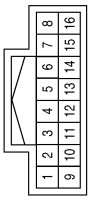
H.S.



Terminal No.	Color of Wire	Signal Name
8	GR	ILL (-)
9	V	ILL (+)

Connector No.	M51
Connector Name	A/C SWITCH ASSEMBLY (WITHOUT AUTO A/C)
Connector Color	WHITE

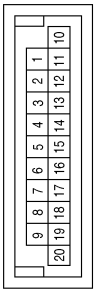
H.S.



Terminal No.	Color of Wire	Signal Name
3	V	–
11	GR	–

Connector No.	M53
Connector Name	JOINT CONNECTOR-M03
Connector Color	BLUE

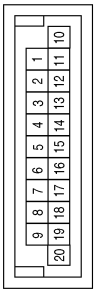
H.S.



Terminal No.	Color of Wire	Signal Name
6	P	–
8	P	–
9	P	–
14	L	–
16	L	–
17	L	–

Connector No.	M60
Connector Name	JOINT CONNECTOR-M06
Connector Color	WHITE

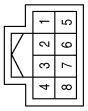
H.S.



Terminal No.	Color of Wire	Signal Name
1	V	–
2	V	–
3	V	–
5	V	–
6	V	–
7	LG	–
9	W	–

Connector No.	M64
Connector Name	VDC OFF SWITCH
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	V	–
4	GR	–

AALIA4491GB

Connector No.	M66
Connector Name	ILLUMINATION CONTROL SWITCH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	R	–
2	Y	–
4	B	–
6	V	–
8	B	–

Connector No.	M71
Connector Name	JOINT CONNECTOR-M05
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
2	GR	–
3	GR	–
4	GR	–
5	GR	–
6	GR	–
8	GR	–
9	B	–

Connector No.	M79
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
19	P	–
20	Y	–

Connector No.	M81
Connector Name	SPORT MODE SWITCH
Connector Color	BLUE

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
4	B	–

Connector No.	M82
Connector Name	ECO MODE SWITCH
Connector Color	GRAY

H.S.

Terminal No.	Color of Wire	Signal Name
1	V	–
4	GR	–

Connector No.	M102
Connector Name	HAZARD SWITCH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
1	GR	–
4	V	–

AALIA4492GB

Connector No.	M129
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Color	WHITE

H.S.

1	2	3	4		5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name
15	GR	–
16	V	–

Connector No.	E2
Connector Name	JOINT CONNECTOR-E02
Connector Color	BLUE

H.S.

12	11	10	9	8	7	6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
1	L	–
5	L	–
8	P	–
12	P	–

Connector No.	E4
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
10G	G	–
30G	V	–
95G	P	–
100G	L	–

Connector No.	E45
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

H.S.

29	28		27	26	25
36	35	34	33	32	31	30

Terminal No.	Color of Wire	Signal Name
33	V	CLEARANCE/L LH

AALIA4493GB

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

H.S.

42	41	40	39	38	37
48	47	46	45	44	43

Terminal No.	Color of Wire	Signal Name
40	P	CAN-L
41	L	CAN-H

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

H.S.

51		50	49
56	55	54	53	52

Terminal No.	Color of Wire	Signal Name
52	B/Y	GND (SIGNAL)

Connector No.	E48
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK

H.S.

59	58	57
62	61	60

Terminal No.	Color of Wire	Signal Name
57	B/Y	GND (POWER)

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

6	5	4		3	2	1
20	19	13	12	11	10	9	8	7
		18	17	16	15	14		

Terminal No.	Color of Wire	Signal Name
19	L	–
20	GR	–

Connector No.	R3
Connector Name	MAP LAMP
Connector Color	WHITE

H.S.

1	2	3	4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
7	GR	–
8	L	–

AALIA4494GB

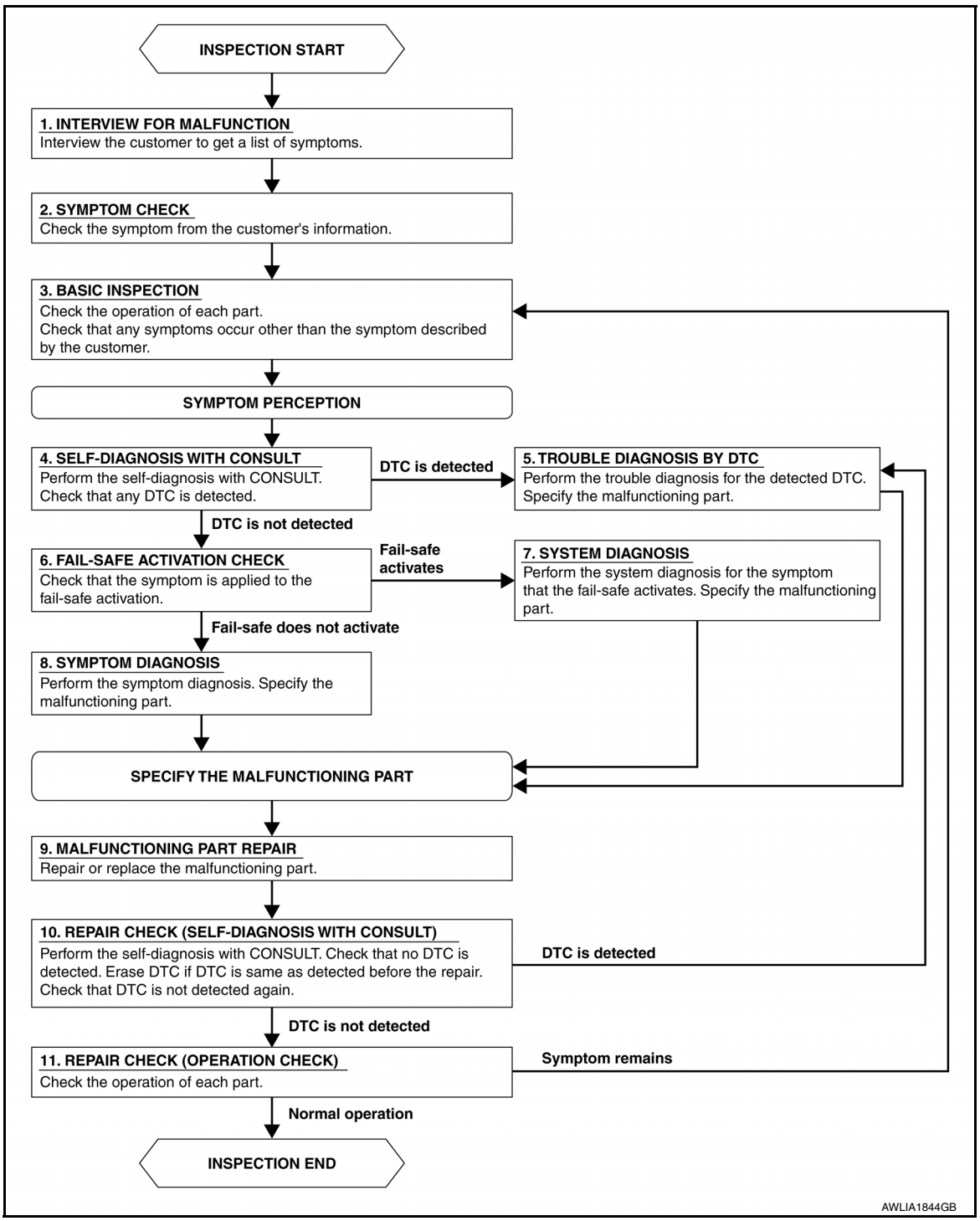
BASIC INSPECTION

DIAGNOSIS AND REPAIR WORKFLOW

Work Flow

INFOID:0000000012782908

OVERALL SEQUENCE



DETAILED FLOW

1.INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2.

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3.

3.BASIC INSPECTION

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> GO TO 4.

4.SELF-DIAGNOSIS WITH CONSULT

Perform the self-diagnosis with CONSULT. Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.
NO >> GO TO 6.

5.TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

6.FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate?

YES >> GO TO 7.
NO >> GO TO 8.

7.SYSTEM DIAGNOSIS

Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

8.SYMPTOM DIAGNOSIS

Perform the symptom diagnosis, refer to INL-60, "Symptom Table". Specify the malfunctioning part.

>> GO TO 9.

9.MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

10.REPAIR CHECK (SELF-DIAGNOSIS WITH CONSULT)

Perform the self-diagnosis with CONSULT. Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 11.

11. REPAIR CHECK (OPERATION CHECK)

Check the operation of each part.

Does it operate normally?

YES >> Inspection End.
NO >> GO TO 3.

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY AND GROUND CIRCUIT

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITH INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:0000000013399770

Regarding Wiring Diagram information, refer to BCS-53, "Wiring Diagram".

1. CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
88	Battery power supply	12 (10A)
90		G (40A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.
NO >> GO TO 2.

2. CHECK POWER SUPPLY CIRCUIT

1. Disconnect BCM connector M85.
2. Check voltage between BCM connector M85 and ground.

BCM		Ground	Voltage
Connector	Terminal		
M85	88	—	Battery voltage
	90		

Is the inspection result normal?

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

3. CHECK GROUND CIRCUIT

Check continuity between BCM connector M85 and ground.

BCM		Ground	Continuity
Connector	Terminal		
M85	93	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair harness or connector.

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM)

BCM (BODY CONTROL SYSTEM) (WITHOUT INTELLIGENT KEY SYSTEM) : Diagnosis Procedure

INFOID:0000000013399771

Regarding Wiring Diagram information, refer to BCS-117, "Wiring Diagram".

1.CHECK FUSES AND FUSIBLE LINK

Check that the following fuses and fusible link are not blown.

Terminal No.	Signal name	Fuses and fusible link No.
63	Battery power supply	12 (10A)
70		G (40A)
11	Ignition switch ACC or ON	18 (10A)
38	Ignition switch ON or START	4 (10A)

Is the fuse blown?

YES >> Replace the blown fuse or fusible link after repairing the affected circuit.
NO >> GO TO 2.

2.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connectors.
3. Check voltage between BCM connector and ground.

BCM		Ground	Ignition switch position		
Connector	Terminal		OFF	ACC	ON
M20	63	—	Battery voltage	Battery voltage	Battery voltage
	70				
M21	11		0 V		
	38			0 V	

Is the inspection result normal?

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

3.CHECK GROUND CIRCUIT

Check continuity between BCM connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M20	65	—	Yes

Is the inspection result normal?

YES >> Inspection End.
NO >> Repair harness or connector.

BATTERY SAVER OUTPUT/POWER SUPPLY CIRCUIT

Description

INFOID:0000000012782911

Provides the battery saver output/power supply. Also cuts the power supply when the interior lamp battery saver is activated.

Component Function Check

INFOID:0000000012782912

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY FUNCTION

CONSULT
1. Turn ignition switch ON.
2. Turn each interior lamp to the ON position.
- Interior room lamp
- Vanity mirror lamps
- Map lamp
- Trunk room lamp
3. Select BATTERY SAVER of BCM (BATTERY SAVER) active test item.
4. While operating the test item, check that each interior room lamp turns ON/OFF.

OFF : Interior room lamp OFF
ON : Interior room lamp ON

Is the inspection result normal?

YES >> Battery saver output/power supply circuit is normal.
NO >> Refer to INL-52, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012782913

Regarding Wiring Diagram information, refer to INL-17, "Wiring Diagram".

1.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OUTPUT

CONSULT
1. Turn ignition switch ON.
2. Select BATTERY SAVER of BCM (BATTERY SAVER) active test item.
3. While operating the test item, check voltage between BCM connector and ground.

With Intelligent Key

BCM		Ground	Test item	Voltage
Connector	Terminal		BATTERY SAVER	
M85	89		OFF	0V
			ON	Battery voltage

Without Intelligent Key

BCM		Ground	Test item	Voltage
Connector	Terminal		BATTERY SAVER	
M20	62		OFF	0V
			ON	Battery voltage

Is the inspection result normal?

YES >> GO TO 2.
NO >> Replace BCM after making sure battery saver output/power supply circuit is not shorted to voltage. Refer to BCS-78, "Removal and Installation" (with Intelligent Key) or BCS-135, "Removal and Installation" (without Intelligent Key).

2.CHECK BATTERY SAVER OUTPUT/POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect the following connectors.
- BCM
- Interior room lamp
- Vanity mirror lamp LH
- Vanity mirror lamp RH
- Map lamp
- Trunk room lamp
3. Check continuity between BCM connector and each interior lamp connector.

With Intelligent Key

BCM		Each interior lamp			Continuity
Connector	Terminal	Connector		Terminal	
M85	89	Interior room lamp	R5	3	Yes
		Vanity mirror lamp LH	R7	2	
		Vanity mirror lamp RH	R8	2	
		Map lamp	R3	1	
		Trunk room lamp	B58	1	

Without Intelligent Key

BCM		Each interior lamp			Continuity
Connector	Terminal	Connector		Terminal	
M20	62	Interior room lamp	R5	3	Yes
		Vanity mirror lamp LH	R7	2	
		Vanity mirror lamp RH	R8	2	
		Map lamp	R3	1	
		Trunk room lamp	B58	1	

Is the inspection result normal?

YES >> GO TO 3.
NO >> Repair or replace the harness or connector.

3. CHECK BATTERY SAVER OUTPUT/POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM connector and ground.

With Intelligent Key

Connector	Terminal	—	Continuity
M85	89	Ground	No

Without Intelligent Key

Connector	Terminal	—	Continuity
M20	62	Ground	No

Is the inspection result normal?

YES >> Check that each interior room lamp has no internal short circuit.
NO >> Repair or replace the harness or connector.

INTERIOR ROOM LAMP CONTROL CIRCUIT

Description

INFOID:0000000012782914

Controls each interior room lamp (ground side) by PWM signal.
NOTE:
PWM signal control period is approximately 250 Hz (in the gradual brightening/dimming).

Component Function Check

INFOID:0000000012782915

CAUTION:
Before performing the diagnosis, check that the following are normal.
- **Interior room lamp power supply**
- **Room lamp bulb**
- **Map lamp bulb**

1.CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

CONSULT ACTIVE TEST
1. Se the map lamp switch or room lamp switch to DOOR.
2. Turn ignition switch ON.
3. Select INT LAMP of BCM (INT LAMP) active test item.
4. While operating the test items, check that each interior room lamp turns ON/OFF (gradual brightening/ dimming).

On : Interior room lamp gradual brightening
Off : Interior room lamp gradual dimming

Does the interior room lamp turns ON/OFF (gradual brightening/dimming)?

YES >> Interior room lamp control circuit is normal.
NO >> Refer to INL-54, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012782916

Regarding Wiring Diagram information, refer to INL-17, "Wiring Diagram".

1.CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

CONSULT ACTIVE TEST
1. Turn ignition switch OFF.
2. Remove all the bulbs of room lamp and map lamp.
3. Turn ignition switch ON.
4. Select INT LAMP of BCM (INT LAMP) active test item.
5. While operating the test item, check continuity between BCM harness connector and ground.

With Intelligent Key

BCM		Ground	Test item		Continuity
Connector	Terminal				
M85	82		INT LAMP	On	Yes
				Off	No

Without Intelligent Key

BCM		Ground	Test item		Continuity
Connector	Terminal				
M20	60		INT LAMP	On	Yes
				Off	No

Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally.
Fixed ON>>GO TO 3.

Fixed OFF>>GO TO 2.

2.CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and room lamp and map lamp connector.
3. Check continuity between BCM harness connector and room lamp harness connector.

With Intelligent Key

BCM		Room lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	Connector	Terminal	
M85	82	R5	2	R3	3	Yes

Without Intelligent Key

BCM		Room lamp		Map lamp		Continuity
Connector	Terminal	Connector	Terminal	Connector	Terminal	
M20	60	R5	2	R3	3	Yes

Is the inspection result normal?

YES >> Check interior room lamps for an open. If NG, replace lamp in question. Refer to INL-63, "Removal and Installation" (room lamp) or INL-61, "Removal and Installation" (map lamp). If OK, replace BCM. Refer to BCS-78, "Removal and Installation" (with Intelligent Key), BCS-135, "Removal and Installation" (without Intelligent Key).

NO >> Repair or replace harness or connector.

3.CHECK INTERIOR ROOM LAMP CONTROL SHORT TO GROUND

1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM harness connector and ground.

With Intelligent Key

BCM		Ground	Continuity
Connector	Terminal		
M85	82		No

Without Intelligent Key

BCM		Ground	Continuity
Connector	Terminal		
M20	60		No

Is the inspection result normal?

YES >> Check interior room lamps for an internal short to ground. If NG, replace lamp in question. Refer to INL-63, "Removal and Installation" (room lamp) or INL-61, "Removal and Installation" (map lamp). If OK, replace BCM. Refer to BCS-78, "Removal and Installation" (with Intelligent Key), BCS-135, "Removal and Installation" (without Intelligent Key).

NO >> Repair or replace harness or connector.

TRUNK ROOM LAMP CIRCUIT

Description

INFOID:0000000012782917

Controls the trunk room lamp (ground side) to turn the trunk room lamp ON and OFF.

Diagnosis Procedure

INFOID:0000000012782918

Regarding Wiring Diagram information, refer to INL-17, "Wiring Diagram".

CAUTION:
Before performing the diagnosis, check that the following are normal.
- **Interior room lamp power supply**
- **Trunk room lamp bulb**

1.CHECK TRUNK ROOM LAMP OUTPUT

1. Turn ignition switch OFF.
2. Remove the trunk room lamp bulb.
3. Check continuity between BCM harness connector and ground.

With Intelligent Key

BCM		Ground	Condition		Continuity
Connector	Terminal				
B24	96		Trunk lid	Open: On	Yes
				Closed: Off	No

Without Intelligent Key

BCM		Ground	Condition		Continuity
Connector	Terminal				
B57	50		Trunk lid	Open: On	Yes
				Closed :Off	No

Is the inspection result normal?

YES >> Trunk room lamp control circuit is operating normally.
Fixed ON>>GO TO 3.
Fixed OFF>>GO TO 2.

2.CHECK TRUNK ROOM LAMP OPEN CIRCUIT

Check continuity between BCM harness connector and trunk room lamp harness connector.

With Intelligent Key

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
B24	96	B58	2	Yes

Without Intelligent Key

BCM		Trunk room lamp		Continuity
Connector	Terminal	Connector	Terminal	
B57	50	B58	2	Yes

Is the inspection result normal?

YES >> Check trunk room lamp for an open. If NG, replace lamp. Refer to INL-64, "Removal and Installation". If OK, replace BCM. Refer to BCS-78, "Removal and Installation" (with Intelligent Key), BCS-135, "Removal and Installation" (without Intelligent Key).
NO >> Repair or replace harness or connector.

3.CHECK TRUNK ROOM LAMP SHORT TO GROUND

1. Disconnect BCM harness connector.
2. Check continuity between BCM harness connector and ground.

With Intelligent Key

BCM		Ground	Continuity
Connector	Terminal		
B24	96		No

Without Intelligent Key

BCM		Ground	Continuity
Connector	Terminal		
B57	50		No

Is the inspection result normal?

YES >> Check trunk room lamp for an internal short to ground. If NG, replace lamp. Refer to INL-64, "Removal and Installation". If OK, replace BCM. Refer to BCS-78, "Removal and Installation" (with Intelligent Key), BCS-135, "Removal and Installation" (without Intelligent Key).

NO >> Repair or replace harness or connector.

PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

Description

INFOID:0000000012782919

Provides the power supply and the ground to control the push-button ignition switch illumination.

Component Function Check

INFOID:0000000012782920

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

CONSULT ACTIVE TEST
1. Turn the ignition switch ON.
2. Select ENGINE SW ILLUMI of BCM (INTELLIGENT KEY) active test item.
3. With operating the test items, check that the push-button ignition switch illumination turns ON/OFF.

On : Push-button ignition switch illumination ON
Off : Push-button ignition switch illumination OFF

Does the push-button ignition switch illumination turn ON/OFF?

YES >> Push-button ignition switch illumination circuit is normal.
NO >> Refer to INL-58, "Diagnosis Procedure".

Diagnosis Procedure

INFOID:0000000012782921

Regarding Wiring Diagram information, refer to INL-27, "WITH INTELLIGENT KEY : Wiring Diagram".

1.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OUTPUT

1. Turn the ignition switch OFF.
2. Disconnect push-button ignition switch connector.
3. Check voltage between push-button ignition switch harness connector and ground.

(+)		(–)	Condition		Voltage (Approx.)
Push-button ignition switch					
Connector	Terminal				
M25	5	Ground	Push-button ignition switch illumination	ON	Battery voltage
				OFF	0 V

Is the inspection result normal?

YES >> GO TO 4.
NO >> GO TO 2.

2.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY OPEN CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and the push-button ignition switch harness connector.

BCM		Push-button ignition switch		Continuity
Connector	Terminal	Connector	Terminal	
M83	41	M25	5	Yes

Is the inspection result normal?

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

3.CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION POWER SUPPLY SHORT CIRCUIT

Check continuity between BCM harness connector and ground.

BCM		Ground	Continuity
Connector	Terminal		
M83	41		No

Is the inspection result normal?

YES >> Replace BCM. Refer to BCS-78, "Removal and Installation".
NO >> Repair or replace harness or connector.

4. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION GROUND CIRCUIT

Check continuity between push-button ignition switch harness connector and ground.

Push-button ignition switch		Ground	Continuity
Connector	Terminal		
M25	6		Yes

Is the inspection result normal?

YES >> Replace push-button ignition switch. Refer to SEC-141, "Removal and Installation".
NO >> Repair or replace harness or connector.

SYMPTOM DIAGNOSIS

INTERIOR LIGHTING SYSTEM SYMPTOMS

Symptom Table

INFOID:0000000012782922

CAUTION:
Perform the self-diagnosis with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

Symptom	Possible cause	Inspection item
• Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.) • Interior room lamp does not turn OFF even though the door is closed.	• Harness between BCM and each door switch • Harness between BCM and each interior room lamp • BCM	Door switch circuit Refer to DLK-108 (with Intelligent Key), DLK-246 (without Intelligent Key).
		Interior room lamp control circuit Refer to INL-54.
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)	—	Check the interior room lamp setting. Refer to BCS-18 (with Intelligent Key), BCS-94 (without Intelligent Key).
Push-button ignition switch illumination does not illuminate.	• Harness between BCM and push-button ignition switch • Harness between push-button ignition switch and ground • Push-button ignition switch • BCM	Push-button ignition switch illumination circuit Refer to INL-58.
Interior room lamp battery saver does not activate.	—	Check the interior room lamp battery saver setting. Refer to BCS-26 (with Intelligent Key), BCS-100 (without Intelligent Key).
Trunk room lamp does not turn ON even though the trunk lid is open.	• Harness between BCM and trunk room lamp • Harness between BCM and trunk lid opener assembly (trunk lid switch). • BCM	Trunk lid opener assembly (trunk lid switch) circuit Refer to DLK-119 (with Intelligent Key), DLK-268 (without Intelligent Key).
		Trunk room lamp circuit Refer to INL-56.

REMOVAL AND INSTALLATION

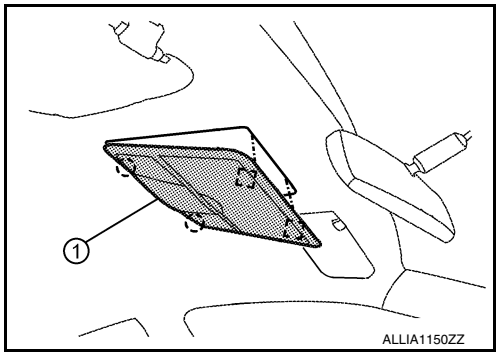
MAP LAMP

Removal and Installation

INFOID:0000000012782923

REMOVAL

1. Lower front edge of map lamp (1) down from the headlining by releasing the metal clips, then slide forward to clear pawls at rear.
   : Metal clip
   : Pawl



2. Disconnect the harness connectors from the map lamp and remove.

INSTALLATION

Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000012782924

The map lamp LED bulbs are replaced as part of the map lamp. Refer to INL-61, "Removal and Installation".

VANITY MIRROR LAMP

Removal and Installation

INFOID:0000000012782925

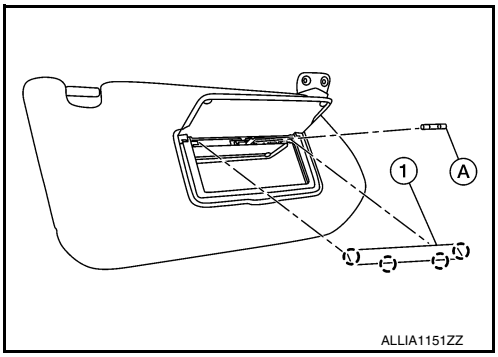
CAUTION:
Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.
NOTE:
The vanity mirror lamp is replaced as part of the sun visor. Refer to INT-40, "Removal and Installation".

Bulb or Lens Replacement

INFOID:0000000012782926

WARNING:
Do not touch bulb while it is lit or right after being turned OFF. Burning may result.
CAUTION:
- **Do not attempt to separate the vanity mirror lamp from the sun visor or damage to the components may occur.**
- **Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.**

1. Release the pawls on the vanity mirror lamp lens (1) using a suitable tool.
   ◌: Pawl
2. Remove the bulb (A) using a suitable tool.



3. Install bulb to vanity mirror lamp.
4. Install the vanity mirror lamp lens.

INTERIOR ROOM LAMP

Removal and Installation

INFOID:0000000012782929

REMOVAL

1. Insert a suitable tool into the gap between the headlining and the interior room lamp and release the interior room lamp.
2. Disconnect the harness connector from the interior room lamp.

INSTALLATION

Installation is in the reverse order of removal.

Bulb or Lens Replacement

INFOID:0000000012782930

WARNING:

Do not touch bulb while it is lit or right after being turned OFF. Burning may result.

CAUTION:

Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Using a suitable tool, release the pawls and remove the interior room lamp lens from the interior room lamp.
2. Remove the interior room lamp bulb.
3. Install the interior room lamp bulb to the interior room lamp.
4. Install the interior room lamp lens.

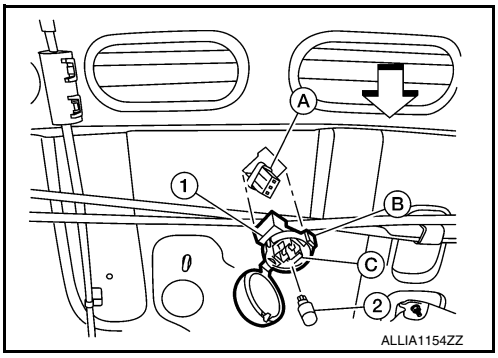
TRUNK ROOM LAMP

Removal and Installation

INFOID:0000000012782931

WARNING:
Do not touch bulb while it is lit or right after being turned OFF. Burning may result.
CAUTION:
Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Release the tab (B) to open the lens.
   ⇦: Front
2. Remove the trunk room bulb (2).
3. Release tab (C), then pull trunk room lamp (1) down to remove.
4. Disconnect the harness connector (A) from the trunk room lamp.



INSTALLATION
Installation is in the reverse order of removal.

Bulb Replacement

INFOID:0000000012782932

WARNING:
Do not touch bulb while it is lit or right after being turned OFF. Burning may result.
CAUTION:
Do not touch glass surface of the bulb with bare hands or allow oil or grease to get on it to prevent damage to bulb.

1. Release the tab to open the lens.
2. Remove bulb from trunk room lamp.
3. Install bulb to trunk room lamp.
4. Close lens.

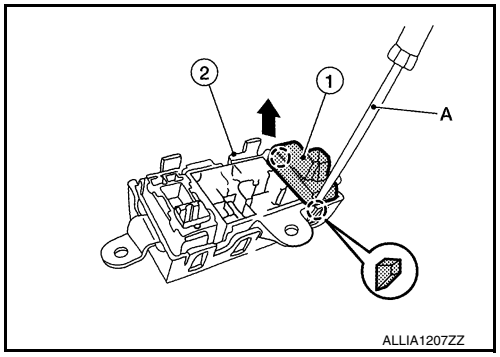
ILLUMINATION CONTROL SWITCH

Removal and Installation

INFOID:0000000012782933

REMOVAL

1. Remove instrument finisher D. Refer to IP-14, "Exploded View".
2. Remove the illumination control switch (1) from the switch carrier (2) using suitable tool (A).
   ( ): Pawl



INSTALLATION

Installation is in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Bulb Specifications

INFOID:0000000012782934

Item	Wattage (W)*
Map lamp	-
Vanity mirror lamp (if equipped)	-
Glove box lamp	-
Interior room lamp (if equipped)	8
Trunk room lamp	3.4

*: Always check with the Parts Department for the latest parts information.