

LT

SECTION

LIGHTING SYSTEM

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PRECAUTIONS

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SERVICE INFORMATION

PRECAUTIONS

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

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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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SUPPLEMENTAL RESTRAINT SYSTEM" and "SEAT BELTS" 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, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, 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 "SUPPLEMENTAL RESTRAINT SYSTEM".
- 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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, and wait at least 3 minutes before performing any service.

Precaution for Battery Service

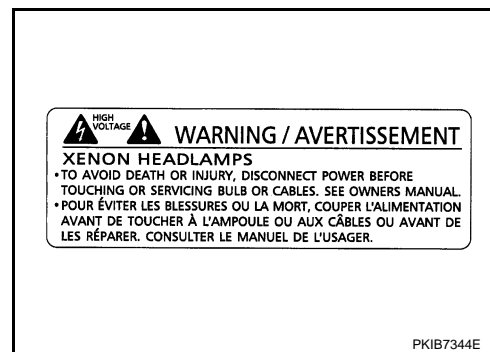
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Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

General Precaution for Service Operation

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- Never work with wet hands.
- Xenon headlamp includes high voltage generating part. Be sure to disconnect battery negative cable (negative terminal) or power fuse before removing, installing, or touching the xenon headlamp (including lamp bulb).
- Turn the lighting switch OFF before disconnecting and connecting the connector.
- When turning the xenon headlamp on and while it is illuminated, never touch the harness, bulb, and socket of the headlamp.
- When checking the headlamp on/off operation, check it on vehicle and with the power connected to the vehicle-side connector.
- Do not touch the headlamp bulb glass surface with bare hands or allow oil or grease to get on it. Do not touch the headlamp bulb just after the headlamp is turned off, because it is very hot.



PRECAUTIONS

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- Install the xenon headlamp bulb socket correctly. If it is installed improperly, high-voltage leak or corona discharge may occur that can melt the bulb, connector, and housing. Do not illuminate the xenon headlamp bulb out of the headlamp housing. Doing so can cause fire and harm your eyes.
- When the bulb has burned out, wrap it in a thick vinyl bag and discard. Do not break the bulb.
- Leaving the bulb removed from the headlamp housing for a long period of time can deteriorate the performance of the lens and reflector (dirt, clouding). Always prepare a new bulb and have it on hand when replacing the bulb.
- When adjusting the headlamp aiming, turn the aiming adjustment screw only in the tightening direction. (If it is necessary to loosen the screw, first fully loosen the screw, and then turn it in the tightening direction.)
- Do not use organic solvent (paint thinner or gasoline) to clean lamps and to remove old sealant.

⚠ WARNING 警告	
 高電圧 HIGH VOLTAGE	<p>傷害となる感電の恐れがあるので、下記を守って下さい。</p> <ul style="list-style-type: none">・電源スイッチをOFFにしてから電源コネクタを脱着して下さい。・分解したり、回路やハーネスを改造しないで下さい。・電気テスターを用いて回路診断をしないで下さい。
	<p>TO AVOID DEATH OR SERIOUS PERSONAL INJURY FROM ELECTRICAL SHOCK:</p> <ul style="list-style-type: none">・DO NOT TOUCH THE POWER SOURCE CONNECTORS BEFORE THE POWER SWITCH IS TURNED OFF.・DO NOT DISASSEMBLE THIS DEVICE.・DO NOT CHECK THE CIRCUIT USING AN ELECTRICAL TESTER. <p>NISSAN</p>
<p>XENON LAMP BALLAST parts no.SCB26 LIGHT SOURCE: D2S・D2R 2000Hr INPUT VOLTAGE: DC13.5V OUTPUT VOLTAGE, POWER: 85V,35W OPEN CIRCUIT VOLTAGE: 400V (Vpeak:25,000volts)</p> <p>DOT</p> <p>STANLEY ELECTRIC CO.,LTD.</p>	
EL-3422D	

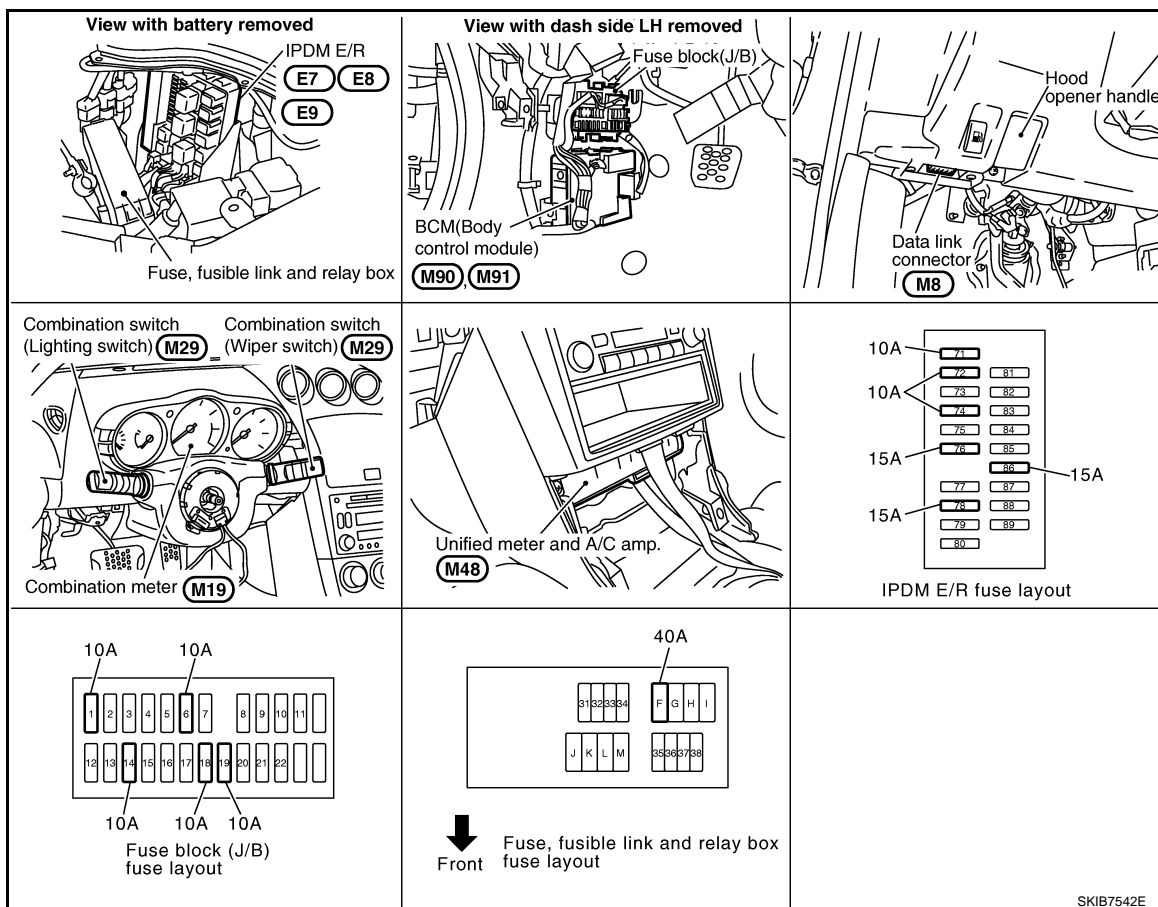
HEADLAMP (FOR USA)

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HEADLAMP (FOR USA)

Component Parts and Harness Connector Location

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System Description

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Control of the headlamp system operation is dependent upon the position of the combination switch (lighting switch). When the lighting switch is placed in the 2ND position, the BCM (body control module) receives input signal requesting the headlamps (and tail lamps) illuminate. This input signal is communicated to the IPDM E/R (intelligent power distribution module engine room) through the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the headlamp high and headlamp low relay coils. These relays, when energized, direct power to the respective headlamps, which then illuminate.

OUTLINE

Power is supplied at all times

- to headlamp high relay, located in IPDM E/R and
- to headlamp low relay, located in IPDM E/R, from battery directly,
- through 40A fusible link [letter F, located in fuse, fusible link and relay box]
- to BCM terminal 55,
- through 10A fuse [No.18, located in fuse block (J/B)]
- to BCM terminal 42,
- through 15A fuse [No.78 located in IPDM E/R]
- to CPU located in IPDM E/R,
- through 10A fuse [No.71,located in IPDM E/R]
- to CPU located in IPDM E/R,
- through 10A fuse [No.19, located in fuse block (J/B)]
- to combination meter terminal 24.

With ignition switch in ON or START position, power is supplied

- to CPU located in IPDM E/R,
- through 10A fuse [No. 1, located in fuse block (J/B)]
- to BCM terminal 38,

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

- through 10A fuse [No.14, located in fuse block (J/B)]
 - to combination meter terminal 23.
- With ignition switch in ACC or ON position, power is supplied
- through 10A fuse [No. 6, located in fuse block (J/B)]
 - to BCM terminal 11.

Ground is supplied

- to BCM terminal 52
- through grounds M30 and M66,
- to IPDM E/R terminals 38 and 60
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to combination meter terminals 10, 11 and 12
- through grounds M30 and M66.

HEADLAMP OPERATION

Low Beam Operation

With the lighting switch in 2ND position, the BCM receives input signal from combination switch reading function (Refer to [BCS-4, "System Description"](#)) the headlamp to illuminate. This input signal is communicated to the IPDM E/R through the CAN communication lines. The CPU located in the IPDM E/R controls the headlamp low relay coil, which when energized, supplies power,

- through 15A fuse [No. 76, located in IPDM E/R]
- through IPDM E/R terminal 20
- to front combination lamp RH terminal 7,
- through 15A fuse [No. 86, located in IPDM E/R]
- through IPDM E/R terminal 30
- to front combination lamp LH terminal 7.

Ground is supplied

- to front combination lamp RH terminal 4, and
- to front combination lamp LH terminal 4
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone).

With power and ground supplied, low beam headlamps illuminate.

High Beam Operation/Flash-to-Pass Operation

With the lighting switch in 2ND position and placed in HIGH or PASS position, the BCM receives input signal requesting headlamp high beams to illuminate. High beam request signal and low beam request signal is communicated to the IPDM E/R through CAN communication. The CPU located in the IPDM E/R controls headlamp high relay and headlamp low relay turned ON, which when energized, supplies power,

- through 15A fuse [No. 76, located in IPDM E/R]
- through IPDM E/R terminal 20
- to front combination lamp RH terminal 7,
- through 15A fuse [No. 86, located in IPDM E/R]
- through IPDM E/R terminal 30
- to front combination lamp LH terminal 7,
- through 10A fuse [No. 72, located in IPDM E/R]
- through IPDM E/R terminal 27
- to front combination lamp RH terminal 3,
- through 10A fuse [No. 74, located in IPDM E/R]
- through IPDM E/R terminal 28
- to front combination lamp LH terminal 3.

Ground is supplied

- to front combination lamp RH terminals 4, and
- to front combination lamp LH terminals 4,
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone).

With the power and ground supplied, headlamp bulbs illuminate. High beam solenoids move the bulb shades in the front combination lamps, and the bulb shades change to high beam position.

Unified meter and A/C amp. receives signal from BCM through CAN communication lines, and then combination meter indicator illuminates high beam.

COMBINATION SWITCH READING FUNCTION

Refer to [BCS-4, "System Description"](#).

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

EXTERIOR LAMP BATTERY SAVER CONTROL

When the combination switch (lighting switch) is in the 2ND position (ON), and the ignition switch is turned from ON or ACC to OFF, the battery saver control function is activated.

Under this condition, the headlamps remain illuminated for 5 minutes, then the headlamps are turned off. Exterior lamp battery saver control mode can be changed by the function setting of CONSULT-III.

REMOTE KEYLESS ENTRY SYSTEM OPERATION

Refer to [BL-52](#).

VEHICLE SECURITY SYSTEM

The vehicle security system will flash the high beams if the system is triggered. Refer to [BL-111](#).

XENON HEADLAMP

Xenon type lamps are used for headlamps. Xenon bulbs do not use a filament. Instead, they produce light when a high voltage current is passed between two tungsten electrodes through a mixture of xenon (an inert gas) and certain other metal halides. In addition to strong lighting power, electronic control of the power supply gives the headlamps stable quality and tone color.

Followings are some advantages of the xenon type headlamp.

- The light produced by the headlamps is white color similar to sunlight that is easy to the eyes.
- Light output is nearly double that of halogen headlamps, affording increased area of illumination.
- Counter-reflected luminance increases and the contrast enhances on the wet road in the rain. That makes visibility go up more than the increase of the light volume.
- Power consumption is approximately 25 percent less than halogen headlamps, reducing battery load.

CAN Communication System Description

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CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

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Refer to [LAN-41](#). "CAN System Specification Chart".

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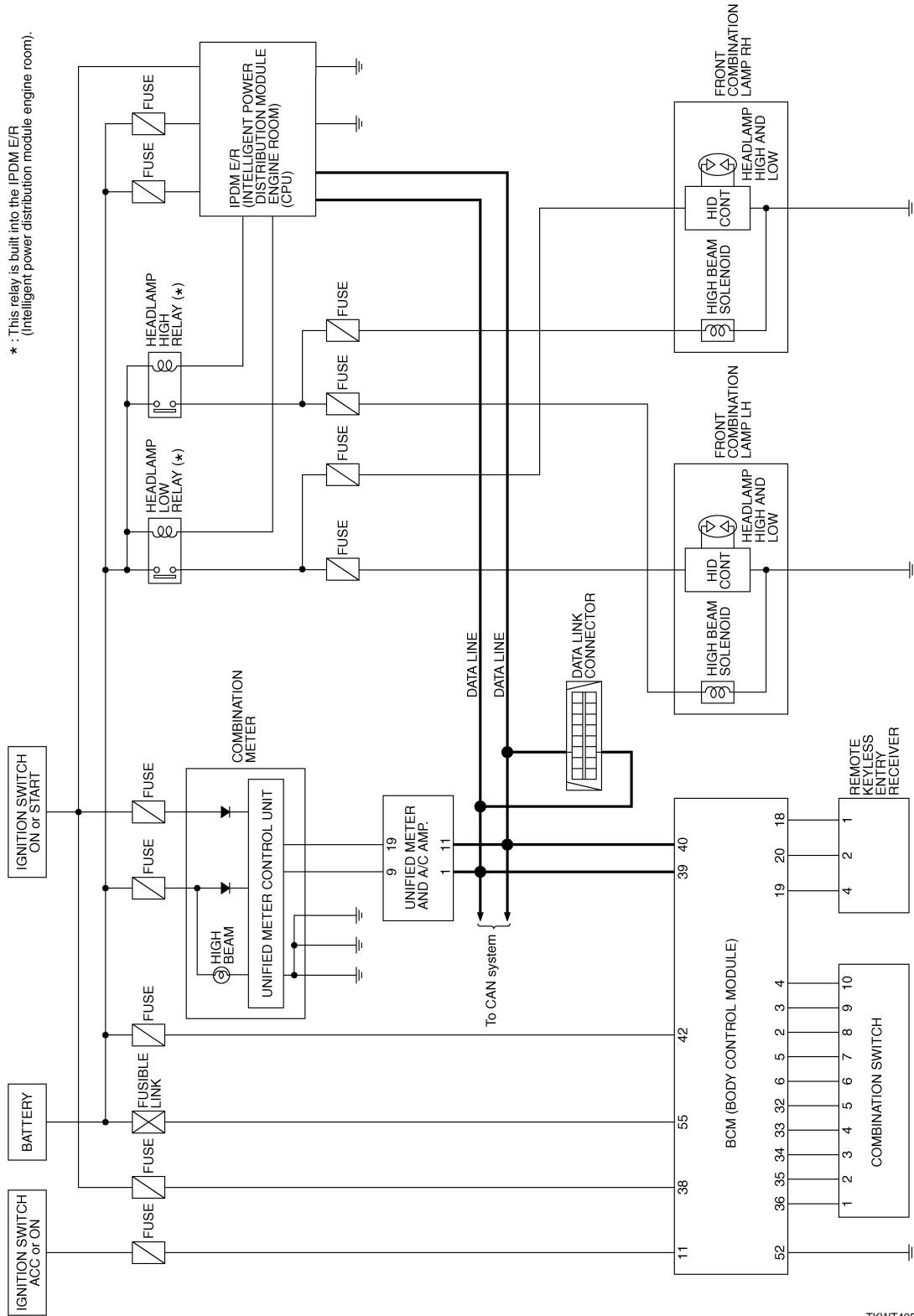
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HEADLAMP (FOR USA)

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Schematic

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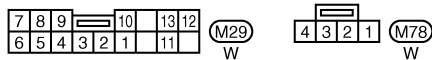
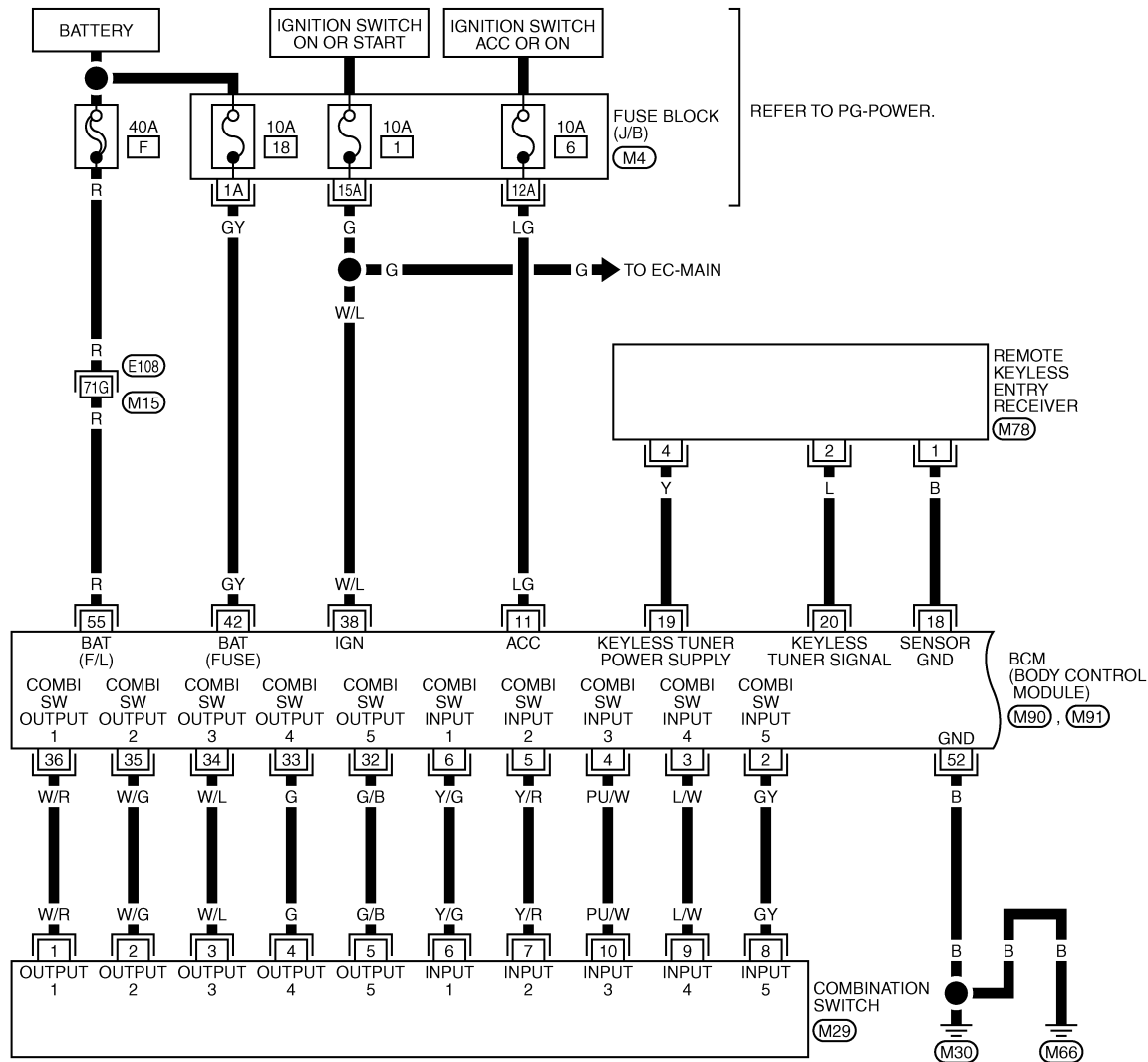
HEADLAMP (FOR USA)

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Wiring Diagram - H/LAMP -

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LT-H/LAMP-01



REFER TO THE FOLLOWING.
 (E108) -SUPER MULTIPLE JUNCTION (SMJ)
 (M4) -FUSE BLOCK-JUNCTION BOX (J/B)
 (M90), (M91) -ELECTRICAL UNITS

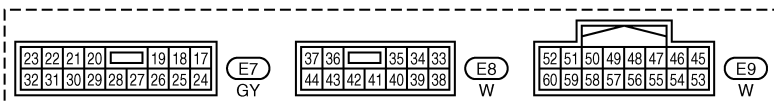
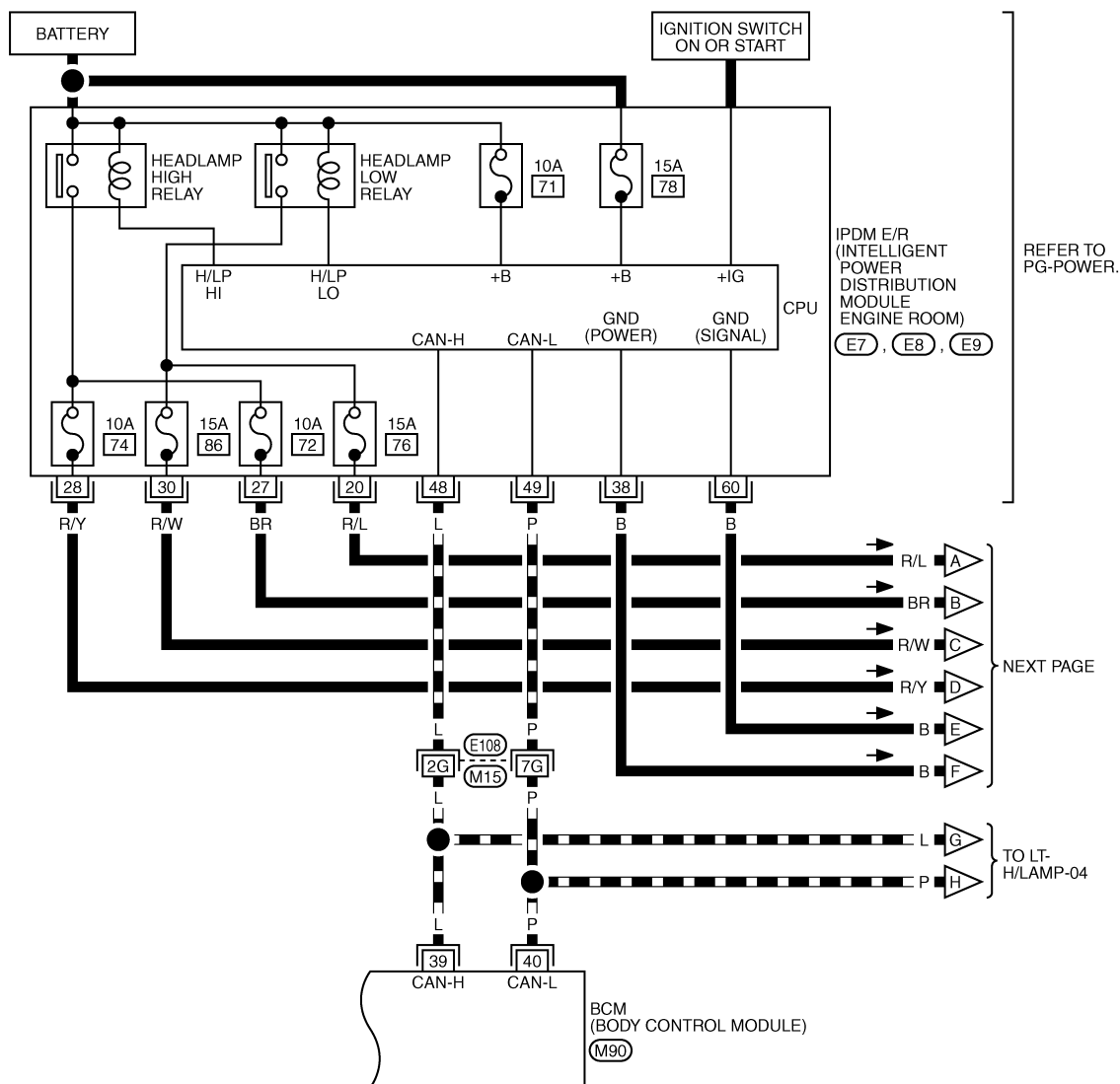
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HEADLAMP (FOR USA)

< SERVICE INFORMATION >

LT-H/LAMP-02

▬ : DATA LINE



REFER TO THE FOLLOWING.

E108 -SUPER MULTIPLE JUNCTION (SMJ)

M90 -ELECTRICAL UNITS

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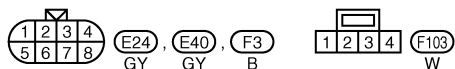
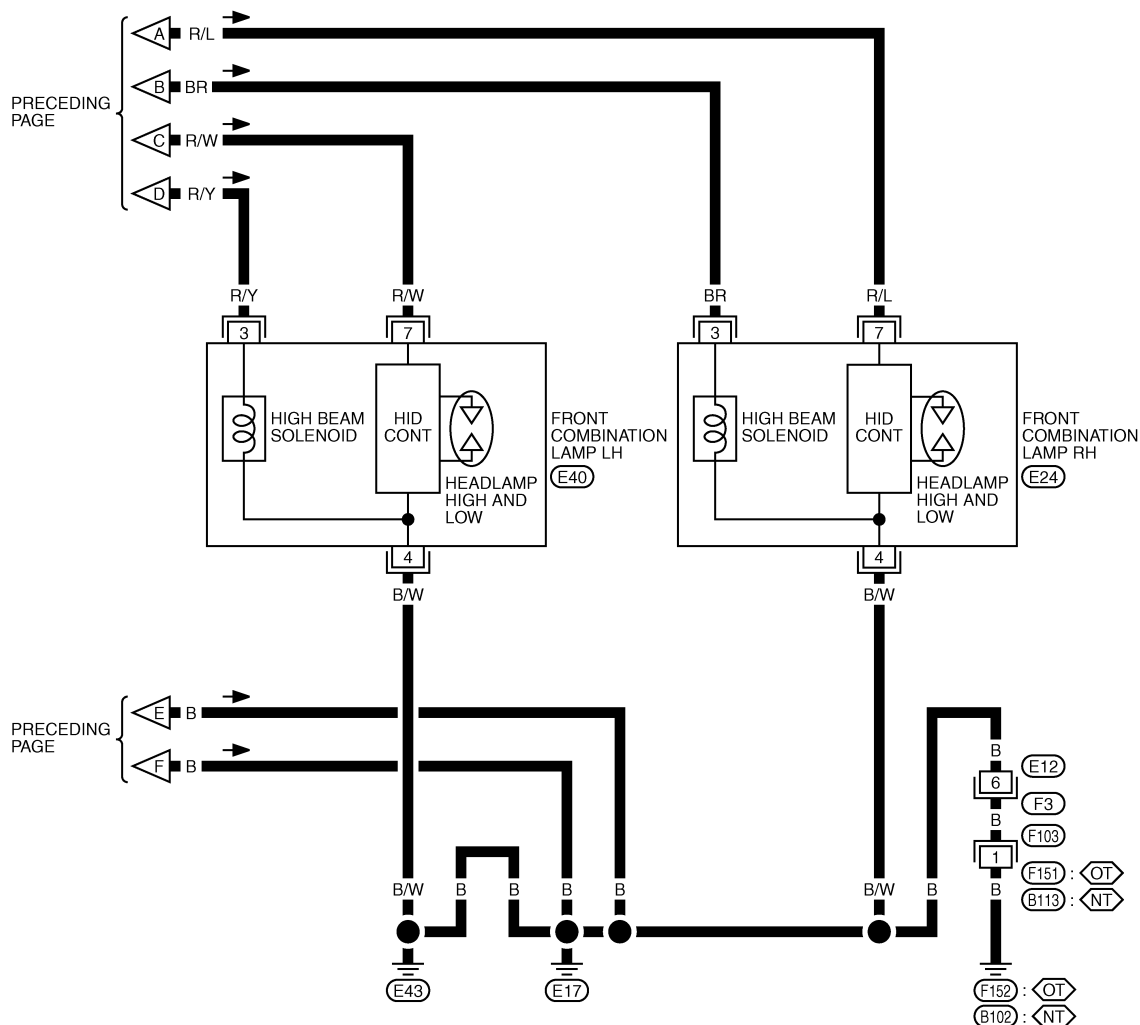
HEADLAMP (FOR USA)

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LT-H/LAMP-03

NT : WITH VDC SYSTEM,
NAVIGATION SYSTEM OR TELEPHONE

OT : WITHOUT VDC SYSTEM,
NAVIGATION SYSTEM AND TELEPHONE



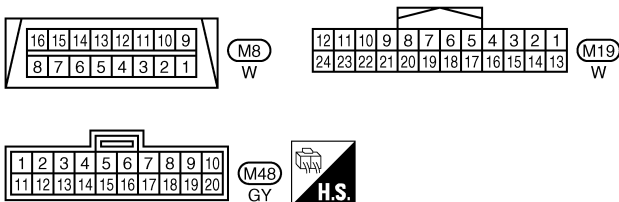
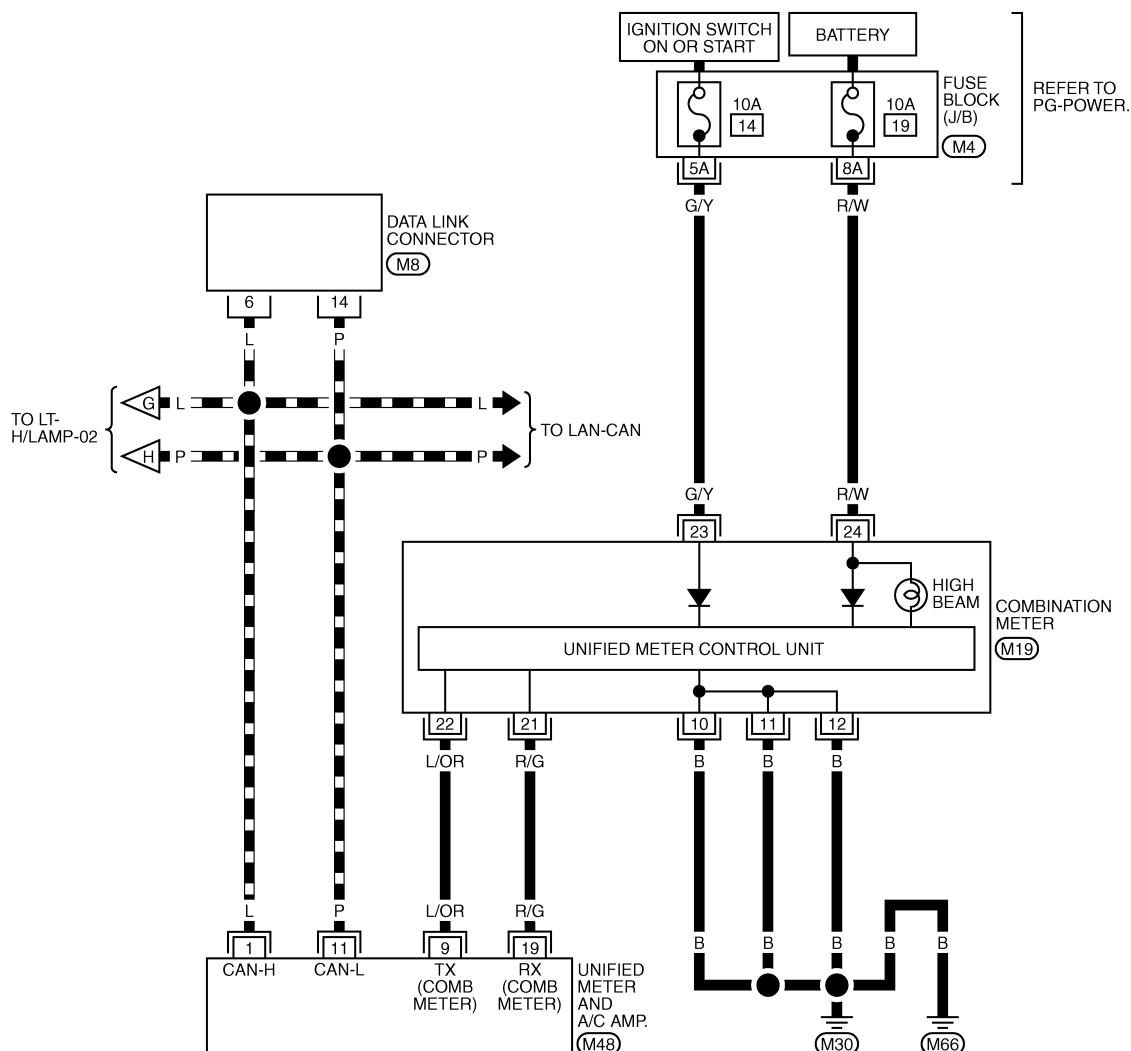
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HEADLAMP (FOR USA)

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LT-H/LAMP-04

DATA LINE



REFER TO THE FOLLOWING.
(M4) - FUSE BLOCK-JUNCTION BOX (J/B)

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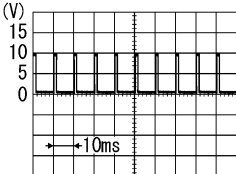
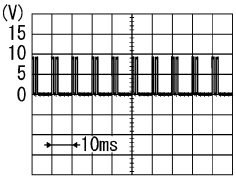
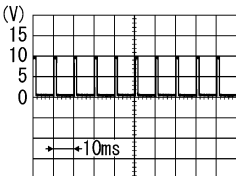
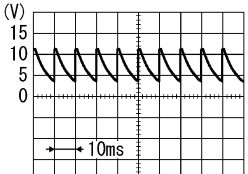
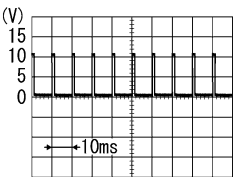
Terminal and Reference Value for BCM

CAUTION:

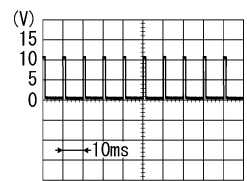
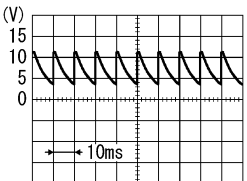
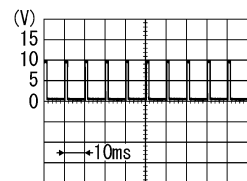
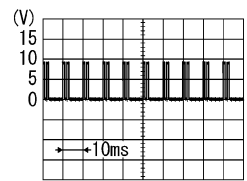
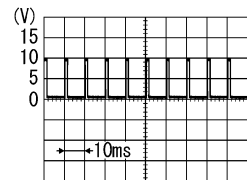
- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF not to be fluctuated by overloaded.
- Turn wiper dial position to 4 except when checking waveform or voltage of wiper dial position. Wiper dial position can be confirmed on CONSULT-III. Refer to [LT-85, "CONSULT-III Function \(BCM\)"](#).

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

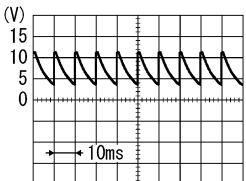
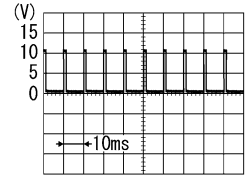
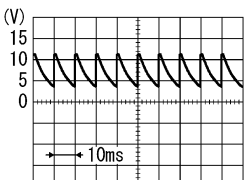
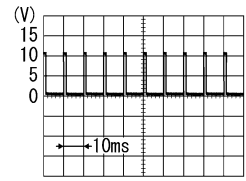
Ter- minal No.	Wire color	Signal name	Measuring condition		Reference value	
			Ignition switch	Operation or condition		
2	GY	Combination switch input 5	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	Approx. 0 V
					Any of the conditions below • Lighting switch 1ST • Lighting switch HIGH beam (Operates only HIGH beam switch)	
				Lighting switch 2ND	Approx. 1.0 V	
						
3	L/W	Combination switch input 4	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	Approx. 0 V
					Any of the conditions below • Lighting switch 2ND • Lighting switch PASSING (Operates only PASSING switch)	
				Lighting switch 2ND	Approx. 1.0 V	
11	LG	Ignition switch (ACC)	ACC	— Battery voltage		
33	G	Combination switch output 4	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	
					Lighting switch 1ST (The same re- sult with lighting switch 2ND)	
				Lighting switch 1ST (The same re- sult with lighting switch 2ND)	Approx. 7.2 V	

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HEADLAMP (FOR USA)

< SERVICE INFORMATION >

Ter- minal No.	Wire color	Signal name	Measuring condition			Reference value
			Ignition switch	Operation or condition		
34	W/L	Combination switch output 3	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	 <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
					Any of the conditions below	 <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
35	W/G	Combination switch output 2	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	 <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
					Any of the conditions below	 <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
38	W/L	Ignition switch (ON)	ON	—		Battery voltage
39	L	CAN – H	—	—		—
40	P	CAN – L	—	—		—
42	GY	Battery power supply	OFF	—		Battery voltage
52	B	Ground	ON	—		Approx. 0 V
55	R	Battery power supply	OFF	—		Battery voltage

Terminal and Reference Value for IPDM E/R

INFOID:000000004655828

Terminal No.	Wire color	Signal name	Measuring condition			Reference value
			Ignition switch	Operation or condition		
20	R/L	Headlamp low (RH)	ON	Lighting switch 2ND position	OFF	Approx. 0 V
					ON	Battery voltage

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

Terminal No.	Wire color	Signal name	Measuring condition			Reference value
			Ignition switch	Operation or condition		
27	BR	Headlamp high (RH)	ON	Lighting switch HIGH or PASS position	OFF	Approx. 0 V
					ON	Battery voltage
28	R/Y	Headlamp high (LH)	ON	Lighting switch HIGH or PASS position	OFF	Approx. 0 V
					ON	Battery voltage
30	R/W	Headlamp low (LH)	ON	Lighting switch 2ND position	OFF	Approx. 0 V
					ON	Battery voltage
38	B	Ground	ON	—		Approx. 0 V
48	L	CAN – H	—	—		—
49	P	CAN – L	—	—		—
60	B	Ground	ON	—		Approx. 0 V

How to Proceed with Trouble Diagnosis

INFOID:000000004655829

1. Confirm the symptom or customer complaint.
2. Understand operation description and function description. Refer to [LT-5, "System Description"](#).
3. Perform the preliminary check. Refer to [LT-15, "Preliminary Check"](#).
4. Check symptom and repair or replace the cause of malfunction.
5. Does headlamp operate normally? If YES, GO TO 6. If NO, GO TO 4.
6. INSPECTION END

Preliminary Check

INFOID:000000004655830

CHECK POWER SUPPLY AND GROUND CIRCUIT

1.CHECK FUSES AND FUSIBLE LINK

Check for blown fuses and fusible link.

Unit	Power source	Fuse and fusible link No.
BCM	Battery	F
		18
	Ignition switch ON or START position	1
	Ignition switch ACC or ON position	6
IPDM E/R	Battery	72
		74
		76
		86

Refer to [LT-9, "Wiring Diagram - H/LAMP -"](#).

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-4](#).

2.CHECK POWER SUPPLY CIRCUIT

HEADLAMP (FOR USA)

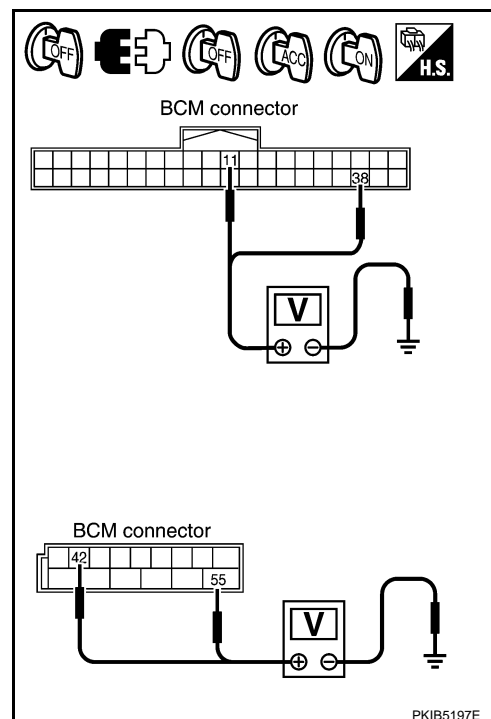
< SERVICE INFORMATION >

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

Terminals		Ignition switch position			
(+)		(-)	OFF	ACC	ON
BCM connector	Terminal				
M90	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
	38		Approx. 0 V	Approx. 0 V	Battery voltage
M91	42		Battery voltage	Battery voltage	Battery voltage
	55		Battery voltage	Battery voltage	Battery voltage

OK or NG

- OK >> GO TO 3.
NG >> Repair harness or connector.



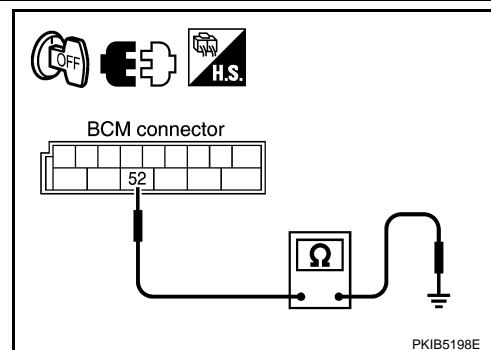
3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M91	52		Yes

OK or NG

- OK >> INSPECTION END
NG >> Repair harness or connector.



CONSULT-III Function (BCM)

INFOID:000000004655831

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

BCM diagnosis part	Diagnosis mode	Description
HEADLAMP	WORK SUPPORT	Changes the setting for each function.
	DATA MONITOR	Displays BCM input data in real time.
	ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
BCM	SELF-DIAG RESULTS	BCM performs self-diagnosis of CAN communication.
	CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

WORK SUPPORT

Display Item List

Item	Description	CONSULT-III	Factory setting
BATTERY SAVER SET	Exterior lamp battery saver control mode can be changed in this mode. Selects exterior lamp battery saver control mode between two ON/OFF.	ON	×
		OFF	—

DATA MONITOR

Display Item List

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

Monitor item	Contents
IGN ON SW "ON/OFF"	Displays "IGN position (ON)/OFF, ACC position (OFF)" judged from the ignition switch signal.
ACC ON SW "ON/OFF"	Displays "ACC (ON)/OFF, Ignition OFF (OFF)" status judged from ignition switch signal.
HI BEAM SW "ON/OFF"	Displays status (high beam switch: ON/Others: OFF) of high beam switch judged from lighting switch signal.
HEAD LAMP SW 1 "ON/OFF"	Displays status (headlamp switch 1: ON/Others: OFF) of headlamp switch 1 judged from lighting switch signal.
HEAD LAMP SW 2 "ON/OFF"	Displays status (headlamp switch 2: ON/Others: OFF) of headlamp switch 2 judged from lighting switch signal.
LIGHT SW 1 ST "ON/OFF"	Displays status (lighting switch 1ST or 2ND position: ON/Others: OFF) of lighting switch judged from lighting switch signal.
PASSING SW "ON/OFF"	Displays status (flash-to-pass switch: ON/Others: OFF) of flash-to-pass switch judged from lighting switch signal.
FR FOG SW ^{NOTE} "ON/OFF"	—
DOOR SW - DR "ON/OFF"	Displays status of driver door as judged from driver door switch signal. (Door is open: ON/Door is closed: OFF)
DOOR SW - AS "ON/OFF"	Displays status of passenger door as judged from passenger door switch signal. (Door is open: ON/Door is closed: OFF)
DOOR SW - RR ^{NOTE} "OFF"	—
DOOR SW - RL ^{NOTE} "OFF"	—
BACK DOOR SW "ON/OFF"	<ul style="list-style-type: none"> Displays status of back door as judged from back door switch signal. (Coupe models) Displays status of rear trunk hood as judged from trunk lamp switch signal. (Roadster models)
TURN SIGNAL R "ON/OFF"	Displays status (Turn right: ON/Others: OFF) as judged from lighting switch signal.
TURN SIGNAL L "ON/OFF"	Displays status (Turn left: ON/Others: OFF) as judged from lighting switch signal.
CARGO LAMP SW ^{NOTE} "OFF"	—

NOTE:

This item is displayed, but cannot be monitored.

ACTIVE TEST

Display Item List

Test item	Description
TAIL LAMP	Allows tail lamp relay to operate by switching ON-OFF.
HEAD LAMP	Allows headlamp relay to operate by switching ON-OFF.
FR FOG LAMP ^{NOTE}	—
CORNERING LAMP ^{NOTE}	—

NOTE:

This item is displayed, but cannot be tested.

CONSULT-III Function (IPDM E/R)

INFOID:000000004655832

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

Check Item, Diagnosis Mode	Description
SELF-DIAGNOSTIC RESULTS	Refer to PG-17, "CONSULT-III Function (IPDM E/R)".
DATA MONITOR	The input/output data of IPDM E/R is displayed in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	IPDM E/R sends a drive signal to electronic components to check their operation.

DATA MONITOR

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

All Signals, Main Signals, Selection From Menu

Item name	CONSULT-III screen display	Display or unit	Monitor item selection			Description
			ALL SIGNALS	MAIN SIGNALS	SELECTION FROM MENU	
Position lights request	TAIL & CLR REQ	ON/OFF	×	×	×	Signal status input from BCM
Headlamp low beam request	HL LO REQ	ON/OFF	×	×	×	Signal status input from BCM
Headlamp high beam request	HL HI REQ	ON/OFF	×	×	×	Signal status input from BCM

NOTE:

Perform monitoring of IPDM E/R data with ignition switch ON. When ignition switch is at ACC, the display may not be correct.

ACTIVE TEST

Display Item List

Test item	CONSULT-III screen display	Description
Tail lamp relay output	TAIL LAMP	Allows tail lamp relay to operate by switching operation ON-OFF at your option.
Headlamp relay (HI, LO) output	LAMPS	Allows headlamp relay (HI, LO) to operate by switching operation (OFF, HI ON, LO ON) at your option (Headlamp high beam repeats ON-OFF every 1 second).

Headlamp Does Not Change To High Beam (Both Sides)

INFOID:000000004655833

1. CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "HI BEAM SW" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

**When lighting switch is : HI BEAM SW ON
HIGH BEAM**

CHECK THE COMBINATION SWITCH

Refer to [LT-86, "Combination Switch Inspection"](#).

OK or NG

- OK >> GO TO 2.
NG >> Check combination switch (lighting switch). Refer to [LT-86, "Combination Switch Inspection"](#).

2. HEADLAMP ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "LAMPS" of IPDM E/R active test item.
2. With operating the test item, check the headlamp high beam operation.

**Headlamp high beam should operate.
(Headlamp high beam repeats ON-OFF every 1 second).**

IPDM E/R AUTO ACTIVE TEST

1. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
2. Check that the headlamp high beam operation.

Headlamp high beam should operate.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 4.

3. CHECK IPDM E/R

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

CONSULT-III DATA MONITOR

1. Select "HL LO REQ" and "HL HI REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status

When lighting switch is : HL LO REQ ON
HIGH BEAM : HL HI REQ ON

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).
NG >> Replace BCM. Refer to [BCS-15. "Removal and Installation of BCM"](#).

4.CHECK HEADLAMP INPUT SIGNAL

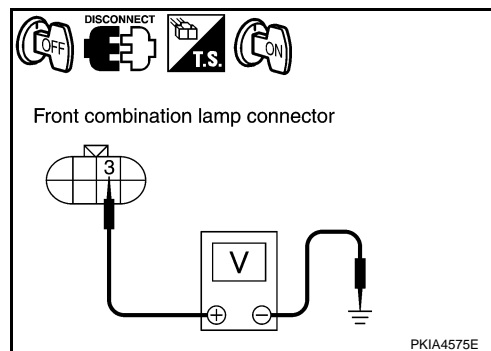
CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Select "LAMPS" of IPDM E/R active test item
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

NOTE:

Headlamp high beam repeats ON-OFF every 1 second.

Terminals				Voltage (Approx.)
(+)			(-)	
Front combination lamp connector		Terminal		
RH	E24	3	Ground	Battery voltage
LH	E40	3		



IPDM E/R AUTO ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Start auto active test. Refer to [PG-19. "Auto Active Test"](#).
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

NOTE:

Headlamp high beam repeats ON-OFF every 1 second.

Terminals				Voltage (Approx.)
(+)			(-)	
Front combination lamp connector		Terminal		
RH	E24	3	Ground	Battery voltage
LH	E40	3		

OK or NG

- OK >> GO TO 6.
NG >> GO TO 5.

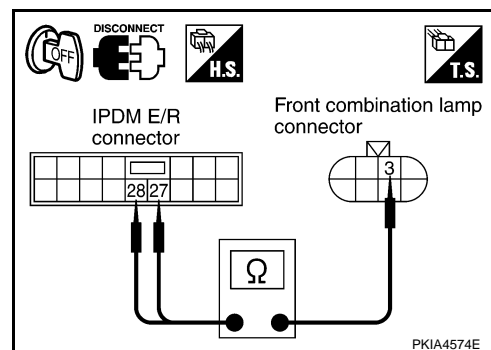
5.CHECK HEADLAMP CIRCUIT

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp (RH and LH) harness connector.

Terminals					Continuity
IPDM E/R			Front combination lamp		
Connector		Terminal	Connector	Terminal	
RH	E7	27	E24	3	Yes
LH		28	E40	3	



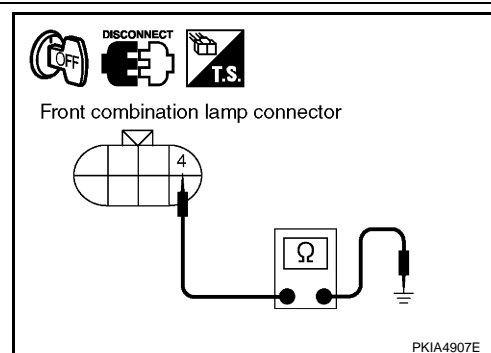
OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).
 NG >> Repair harness or connector.

6.CHECK HEADLAMP GROUND

Check continuity between front combination lamp (RH and LH) harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		



OK or NG

- OK >> Check headlamp harness, connector and bulb.
 NG >> Repair harness or connector.

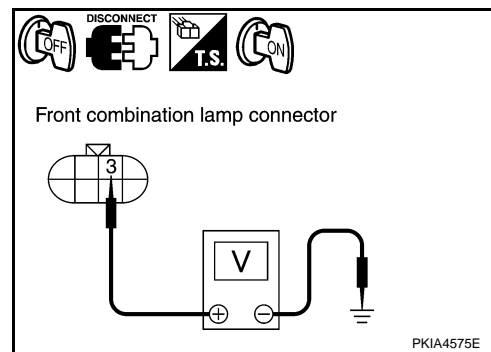
Headlamp Does Not Change To High Beam (One Side)

INFOID:000000004655834

1.CHECK HEADLAMP INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH or LH connector.
3. Turn ignition switch ON.
4. Lighting switch is turned HIGH BEAM position.
5. Check voltage between front combination lamp RH or LH harness connector and ground.

Terminals				Voltage (Approx.)
(+) Front combination lamp connector		Terminal	(-)	
RH	E24	3		
LH	E40	3	Ground	Battery voltage



OK or NG

- OK >> GO TO 3.
 NG >> GO TO 2.

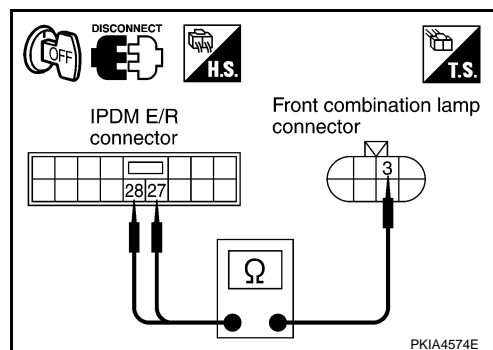
2.CHECK HEADLAMP CIRCUIT

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp RH or LH harness connector.

Terminals					Continuity
IPDM E/R			Front combination lamp		
Connector		Terminal	Connector	Terminal	
RH	E7	27	E24	3	Yes
LH		28	E40	3	



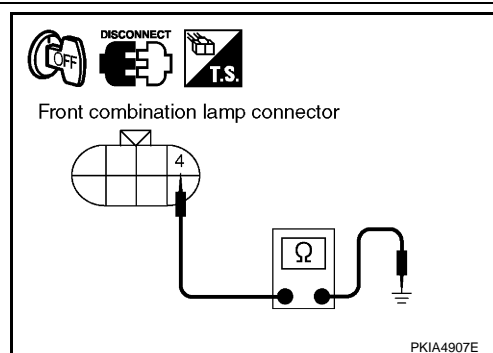
OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).
 NG >> Repair harness or connector.

3.CHECK HEADLAMP GROUND

Check continuity between front combination lamp RH or LH harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		



OK or NG

- OK >> Check headlamp harness and connector.
 NG >> Repair harness or connector.

High Beam Indicator Lamp Does Not Illuminate

INFOID:000000004655835

1.CHECK BULB

Check bulb of high beam indicator lamp.

OK or NG

- OK >> Replace combination meter. Refer to [DI-22. "Removal and Installation for Combination Meter"](#).
 NG >> Replace indicator bulb.

Headlamp Low Beam Does Not Illuminate (Both Sides)

INFOID:000000004655836

1.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "HEAD LAMP SW1" and "HEAD LAMP SW2" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is 2ND position : HEAD LAMP SW1 ON
: HEAD LAMP SW2 ON

CHECK THE COMBINATION SWITCH

Refer to [LT-86. "Combination Switch Inspection"](#).

OK or NG

- OK >> GO TO 2.
 NG >> Check combination switch (lighting switch). Refer to [LT-86. "Combination Switch Inspection"](#).

2.HEADLAMP ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "LAMPS" of IPDM E/R active test item.
2. With operating the test item, check the headlamp low beam operation.

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

Headlamp low beam should operate.

⊗ IPDM E/R AUTO ACTIVE TEST

1. Start auto active test. Refer to [PG-19. "Auto Active Test"](#).
2. Check that the headlamp low beam operation.

Headlamp low beam should operate.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 4.

3. CHECK IPDM E/R

Ⓜ CONSULT-III DATA MONITOR

1. Select "HL LO REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is 2ND : HL LO REQ ON position

OK or NG

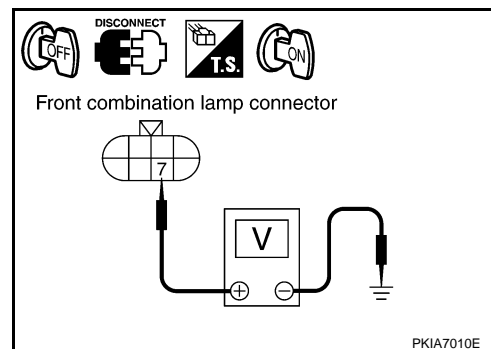
- OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).
NG >> Replace BCM. Refer to [BCS-15. "Removal and Installation of BCM"](#).

4. CHECK HEADLAMP INPUT SIGNAL

Ⓜ CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Select "LAMPS" of IPDM E/R active test item.
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

Terminals			Voltage (Approx.)
(+) Terminal		(-)	
Front combination lamp connector			
RH	E24	7	Ground Battery voltage
LH	E40	7	



⊗ IPDM E/R AUTO ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Start auto active test. Refer to [PG-19. "Auto Active Test"](#).
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

Terminals			Voltage (Approx.)
(+) Terminal		(-)	
Front combination lamp connector			
RH	E24	7	Ground Battery voltage
LH	E40	7	

OK or NG

- OK >> GO TO 6.
NG >> GO TO 5.

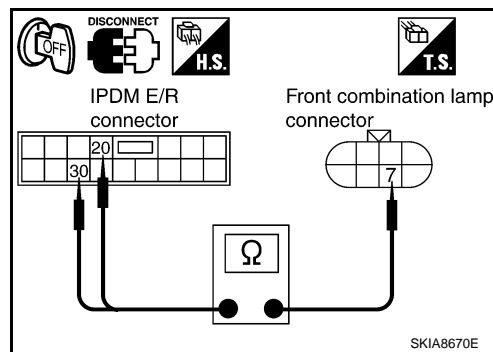
HEADLAMP (FOR USA)

< SERVICE INFORMATION >

5.CHECK HEADLAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp (RH and LH) harness connector.

Terminals					Continuity
IPDM E/R		Front combination lamp			
Connector		Terminal	Connector	Terminal	
RH	E7	20	E24	7	Yes
LH		30	E40	7	



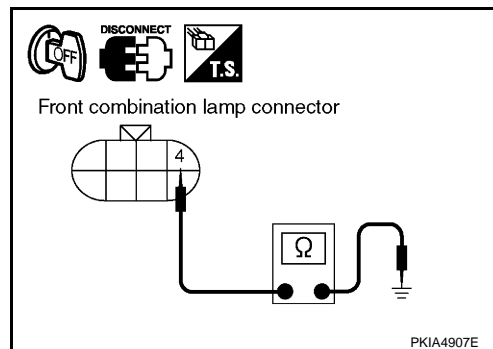
OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
 NG >> Repair harness or connector.

6.CHECK HEADLAMP GROUND

1. Turn ignition switch OFF.
2. Check continuity between front combination lamp (RH and LH) harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		



OK or NG

- OK >> Check headlamp harness and connectors, ballasts (HID control unit), and xenon bulbs. Refer to [LT-25, "Xenon Headlamp Trouble Diagnosis"](#).
 NG >> Repair harness or connector.

Headlamp Low Beam Does Not Illuminate (One Side)

INFOID:000000004655837

1.CHECK BULB

Check ballast (HID control unit) and xenon bulb of lamp which does not illuminate. Refer to [LT-25, "Xenon Headlamp Trouble Diagnosis"](#).

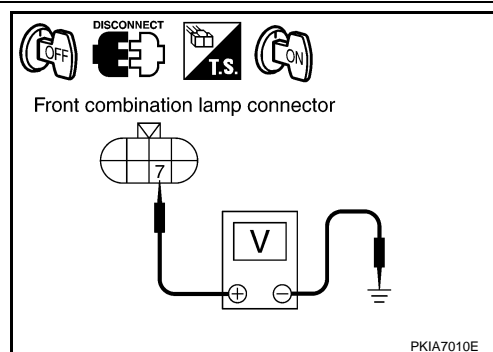
OK or NG

- OK >> GO TO 2.
 NG >> Replace malfunctioning part.

2.CHECK HEADLAMP INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH or LH connector.
3. Turn ignition switch ON.
4. Lighting switch is turned 2ND position.
5. Check voltage between front combination lamp RH or LH harness connector and ground.

Terminals				Voltage (Approx.)
(+) Front combination lamp connector		Terminal	(-)	
RH	E24	7		
LH	E40	7	Ground	Battery voltage



HEADLAMP (FOR USA)

< SERVICE INFORMATION >

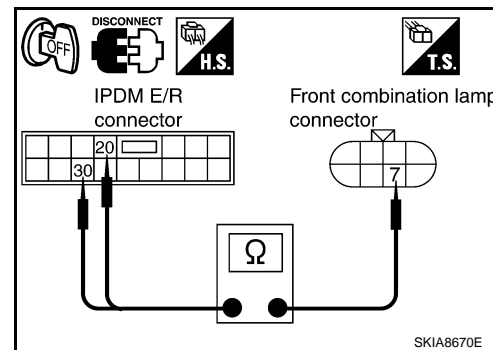
OK or NG

- OK >> GO TO 4.
NG >> GO TO 3.

3.CHECK HEADLAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp RH or LH harness connector.

Terminals					Continuity
IPDM E/R		Front combination lamp			
Connector		Terminal	Connector	Terminal	
RH	E7	20	E24	7	Yes
LH		30	E40	7	



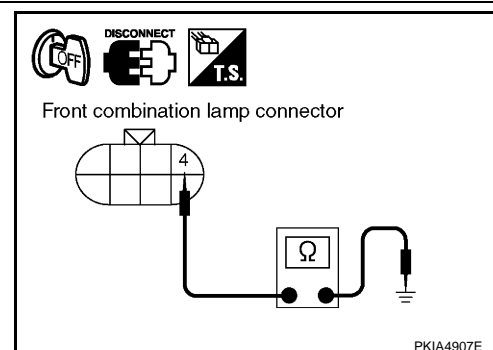
OK or NG

- OK >> Replace IPDM E/R.
NG >> Repair harness or connector.

4.CHECK HEADLAMP GROUND

Check continuity between front combination lamp RH or LH harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		



OK or NG

- OK >> Check headlamp harness and connector.
NG >> Repair harness or connector.

Headlamps Does Not Turn OFF

INFOID:000000004655838

1.CHECK HEADLAMP TURN OFF

Make sure that lighting switch is OFF. And check if headlamp turns off when ignition switch is turned OFF.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 2.

2.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "HEAD LAMP1" and "HEAD LAMP2" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

**When lighting switch is OFF : HEAD LAMP SW1 OFF
: HEAD LAMP SW2 OFF**

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
NG >> Check combination switch (lighting switch). Refer to [LT-86, "Combination Switch Inspection"](#).

3.CHECKING CAN COMMUNICATIONS BETWEEN BCM AND IPDM E/R

Perform self-diagnosis for "BCM" with CONSULT-III.

Display of self-diagnosis results

NO DTC>> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

CAN COMM CIRCUIT>> Refer to [PG-23. "U1000 CAN COMM CIRCUIT"](#).

General Information for Xenon Headlamp Trouble Diagnosis

INFOID:000000004655839

In most cases, malfunction of xenon headlamp - "does not illuminate", "flickers" or "dark" - is caused by a malfunctioning xenon bulb. A malfunctioning HID control unit or lamp housing, however, may be a cause. Be sure to perform trouble diagnosis following the steps described below.

Caution:

INFOID:000000004655840

- Installation or removal of connector must be done with lighting switch OFF.
- Disconnect the battery cable from the negative terminal or remove power fuse.

CAUTION:

After the battery cables are disconnected, never open/close the driver and/or front passenger door with the window in the full up position. The automatic window adjusting function will not work and the side roof panel may be damaged.

- When the lamp is illuminated (when lighting switch is ON), never touch harness, HID control unit, inside of lamp, or lamp metal parts.
- To check illumination, temporarily install lamp in vehicle. Be sure to connect power at vehicle side connector.
- If error can be traced directly to electrical system, first check for items such as blown fuses and fusible links, broken wires or loose connectors, dislocated terminals, and improper connections.
- Never work with wet hands.
- Using a tester for HID control unit circuit trouble diagnosis is prohibited.
- Disassembling HID control unit or harnesses (bulb socket harness, ECM harness) is prohibited.
- Immediately after illumination, light intensity and color will fluctuate, but there is nothing wrong.
- When bulb has come to end of its life, brightness will drop significantly, it will flash repeatedly, or light color will turn reddish.

Xenon Headlamp Trouble Diagnosis

INFOID:000000004655841

1.CHECK 1: XENON HEADLAMP LIGHTING

Install normal xenon bulb to corresponding xenon bulb headlamp, and check if lamp lights up.

OK or NG

- OK >> Replace xenon bulb.
- NG >> GO TO 2.

2.CHECK 2: XENON HEADLAMP LIGHTING

Install normal HID control unit to corresponding xenon headlamp, and check if lamp lights up.

OK or NG

- OK >> Replace HID control unit.
- NG >> GO TO 3.

3.CHECK 3: XENON HEADLAMP LIGHTING

Install normal xenon lamp housing assembly to corresponding xenon headlamp, and check if lamp lights up.

OK or NG

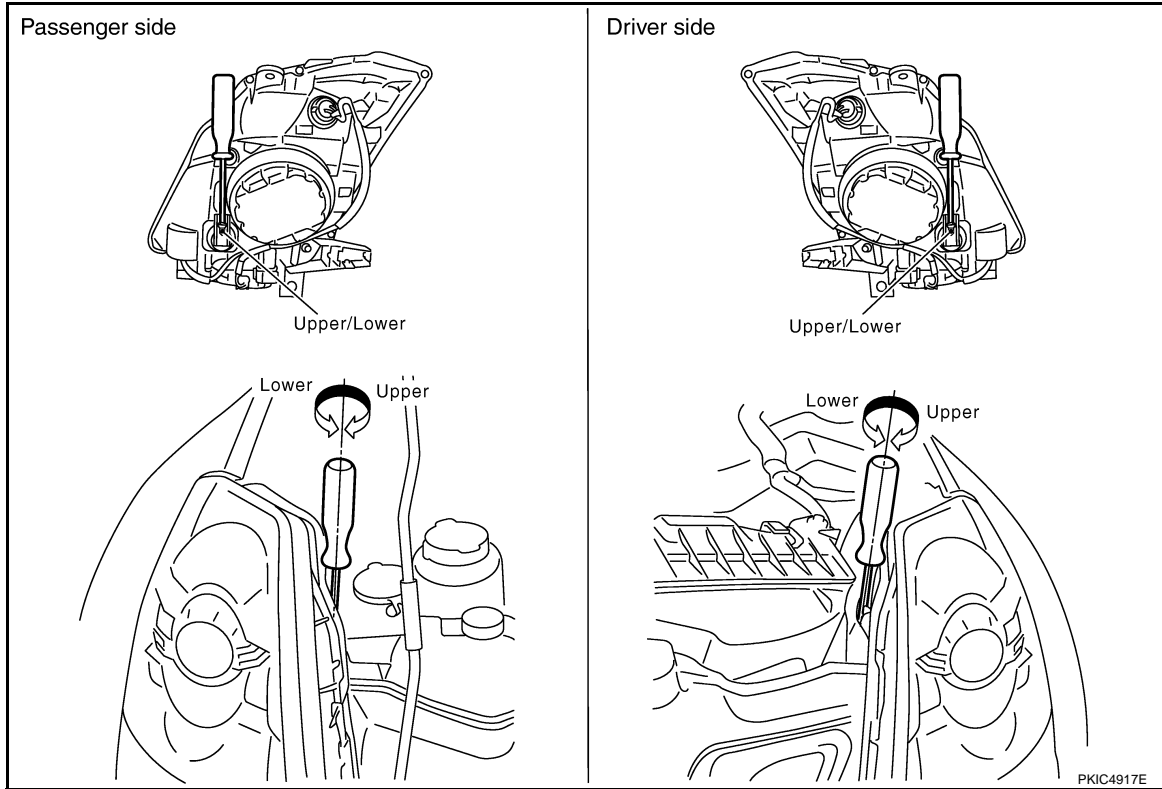
- OK >> Replace xenon headlamp housing assembly. [Malfunction in starter (boosting circuit) in xenon headlamp housing]
- NG >> INSPECTION END

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

Aiming Adjustment

INFOID:000000004655842



PREPARATION BEFORE ADJUSTING

For details, refer to the regulations in your own country.

Before performing aiming adjustment, check the following.

1. Keep all tires inflated to correct pressures.
2. Place vehicle on level surface.
3. Set that there is no-load in vehicle other than the driver (or equivalent weight placed in driver's position).
Coolant, engine oil filled up to correct level and full fuel tank.

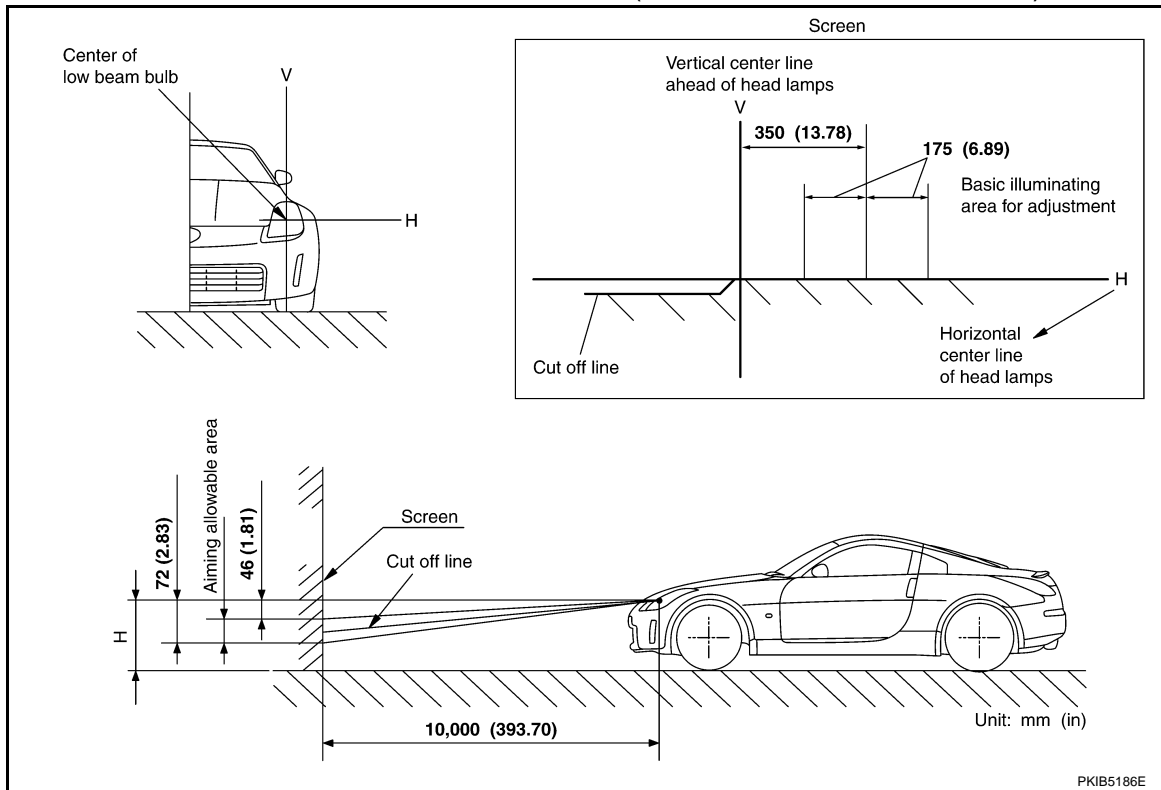
LOW BEAM AND HIGH BEAM

1. Turn headlamp low beam ON.
2. Use adjusting screws to perform aiming adjustment.

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

ADJUSTMENT USING AN ADJUSTMENT SCREEN (LIGHT/DARK BORDERLINE)



If the vehicle front body has been repaired and/or the headlamp assembly has been replaced, check aiming. Use the aiming chart shown in the figure.

- Basic illumination area for adjustment should be within the range shown on the aiming chart. Adjust headlamp accordingly.

Bulb Replacement

INFOID:000000004655843

HEADLAMP HIGH/LOW BEAM

1. Turn lighting switch OFF.
2. Open the driver and front passenger window, and then disconnect the battery cable from the negative terminal or remove power fuse.

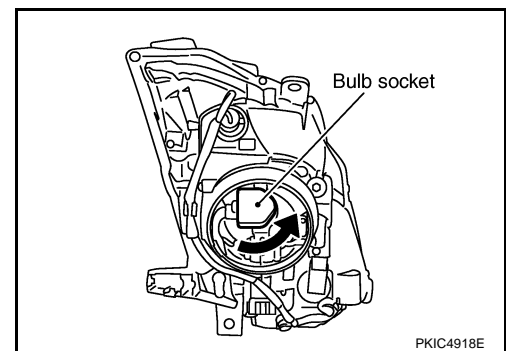
CAUTION:

After the battery cables are disconnected, never open/close the driver and/or front passenger door with the window in the full up position. The automatic window adjusting function will not work and the side roof panel may be damaged.

3. Remove headlamp. Refer to [LT-28. "Removal and Installation"](#).
4. Turn plastic cap counterclockwise and unlock it.
5. Turn bulb socket counterclockwise and unlock it.
6. Unlock retaining spring and remove bulb from headlamp.
7. Installation is reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to [LT-26. "Aiming Adjustment"](#).



Headlamp high/low beam (Xenon) : 12V - 35W (D2R)

PARKING LAMP

1. Turn lighting switch OFF.
2. Remove fender protector (front). Refer to [EI-17](#).

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

3. Turn bulb socket counterclockwise and unlock it.
4. Remove bulb from its socket.
5. Installation is reverse order of removal.

Parking lamp

: 12V - 5W

FRONT TURN SIGNAL LAMP

1. Turn lighting switch OFF.
2. Remove fender protector (front). Refer to [EI-17](#).
3. Turn bulb socket counterclockwise and unlock it.
4. Remove bulb from its socket.
5. Installation is reverse order of removal.

Front turn signal lamp/—

: 12V - 28/8W (amber)

FRONT SIDE MARKER LAMP

1. Remove headlamp. Refer to [LT-28, "Removal and Installation"](#).
2. Replacement integral with headlamp housing assembly.
3. Installation is reverse order of removal.

Front side marker lamp

: LED

CAUTION:

After installing bulb, be sure to install plastic cap and bulb socket securely to insure watertightness.

Removal and Installation

INFOID:000000004655844

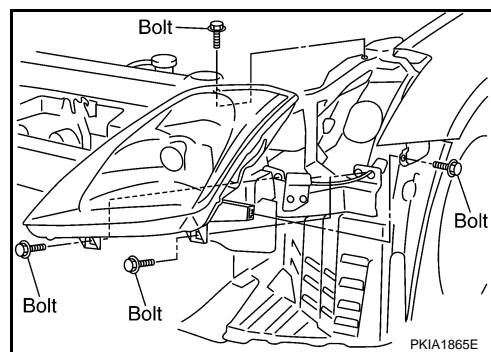
REMOVAL

1. Open the driver and front passenger window, and then disconnect the battery cable from the negative terminal or remove power fuse.

CAUTION:

After battery cables are disconnected, never open/close the driver and/or front passenger door with the window in the full up position. The automatic window adjusting function will not work and the side roof panel may be damaged.

2. Remove front bumper fascia. Refer to [EI-11](#).
3. Remove headlamp mounting bolts.
4. Pull head lamp toward vehicle front, disconnect connector, and remove headlamp.



INSTALLATION

Installation is the reverse order of removal.

Headlamp mounting bolt



: 6.1 N·m (0.62 kg-m, 54 in-lb)

NOTE:

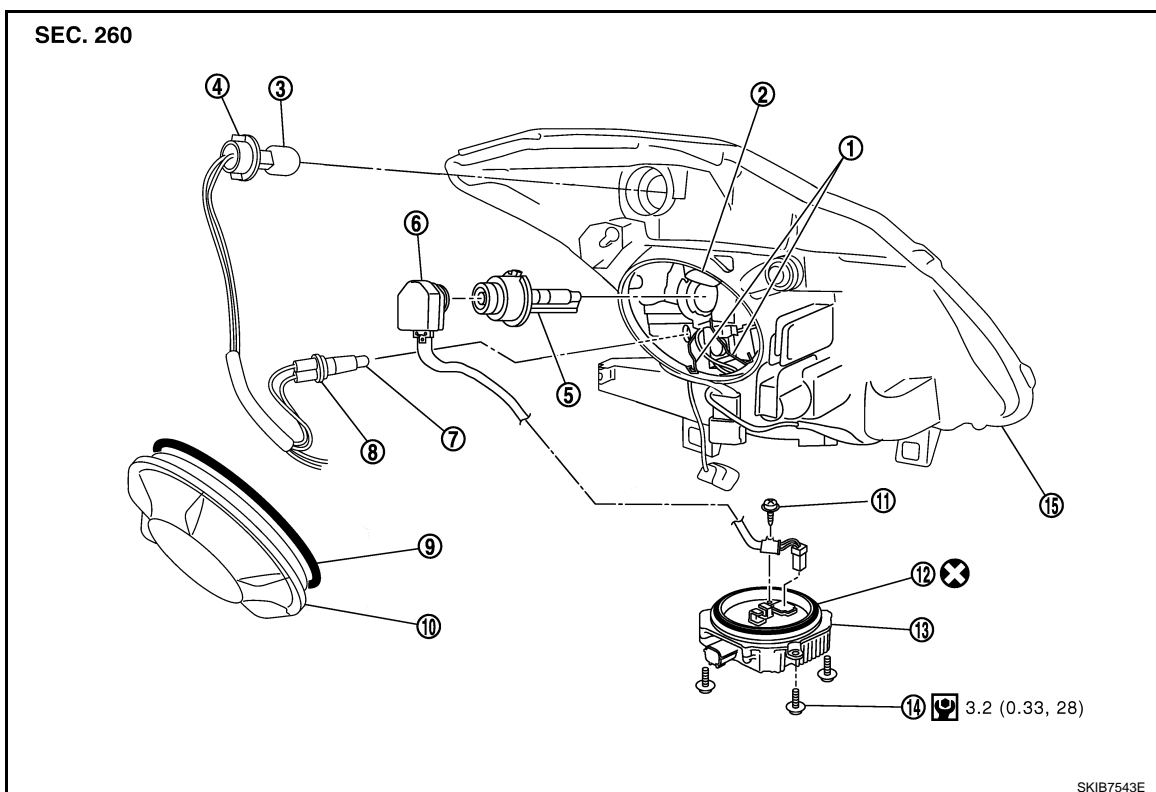
After installation, perform aiming adjustment. Refer to [LT-26, "Aiming Adjustment"](#).

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

Disassembly and Assembly

INFOID:000000004655845



- | | | |
|---------------------------------------|-------------------------------------|--------------------------------|
| 1. Retaining spring | 2. Xenon bulb socket ground | 3. Front turn signal lamp bulb |
| 4. Front turn signal lamp bulb socket | 5. Xenon bulb | 6. Xenon bulb socket |
| 7. Parking lamp bulb | 8. Parking lamp bulb socket | 9. Seal packing |
| 10. Plastic cap | 11. Ground screw | 12. Seal packing |
| 13. HID control unit | 14. HID control unit mounting screw | 15. Headlamp housing assembly |

:N·m (kg-m, in-lb)

: Always replace after every disassembly.

DISASSEMBLY

- Turn plastic cap counterclockwise, and unlock it.
- Turn xenon bulb socket counterclockwise, and unlock it.
- Unlock retaining spring, and remove xenon bulb.
- Disconnect xenon bulb socket ground.
- Remove HID control unit mounting screws.
- Remove ground screw from HID control unit.
- Disconnect connectors from HID control unit.
- Pull out xenon bulb socket from head lamp housing assembly.
- Turn parking lamp bulb socket counterclockwise and unlock it.
- Remove parking lamp bulb from its socket.
- Turn front turn signal lamp bulb socket counterclockwise and unlock it.
- Remove front turn signal lamp bulb from its socket.

ASSEMBLY

Assembly is the reverse order of disassembly.

HID control unit mounting screw : 3.2 N·m (0.33 kg-m, 28 in-lb)

HEADLAMP (FOR USA)

< SERVICE INFORMATION >

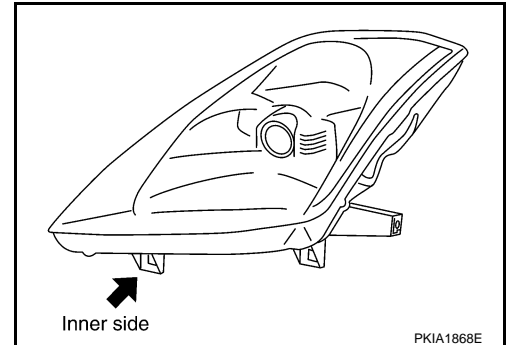
CAUTION:

- When HID control unit is removed, reinstall it securely and avoid any looseness.
- After installing bulb, be sure to install plastic cap and bulb socket securely to insure watertightness

Servicing to Replace Headlamps When Damaged

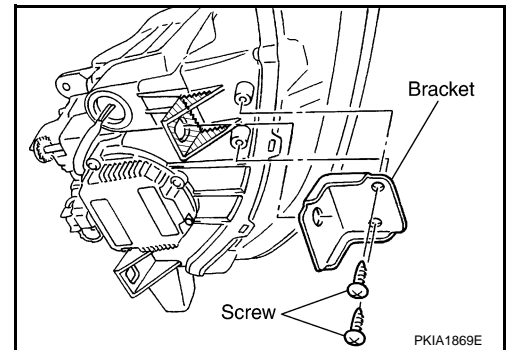
INFOID:000000004655846

If only installation part as shown in the figure is damaged, and headlamp housing itself is not damaged, repair can be completed easily by installing correction brackets.



INSTALLATION OF HEADLAMP BRACKET

1. Remove headlamps. Refer to [LT-28, "Removal and Installation"](#).
2. Cut damaged section of installation part, then shape with sandpaper.
3. Attach each correction bracket to headlamp housing boss with 2 screws.



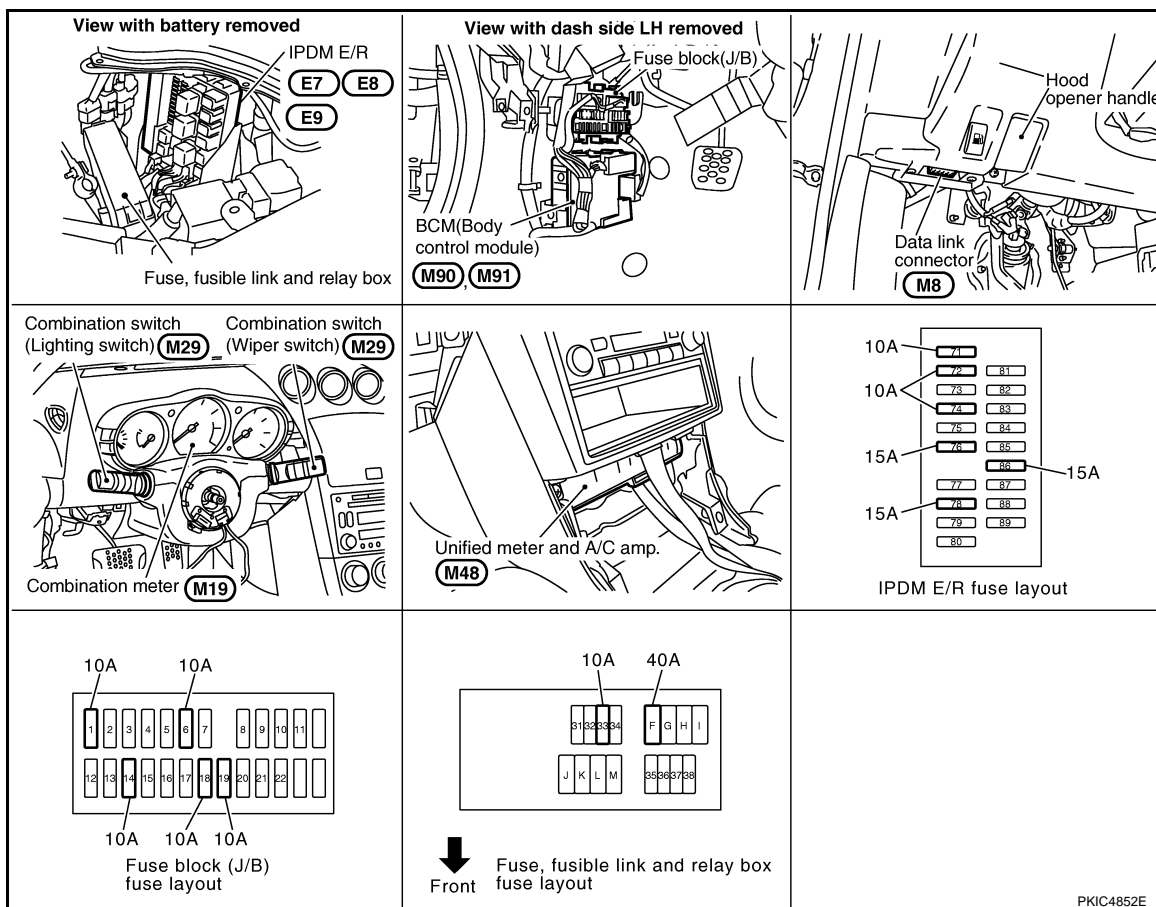
HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

Component Parts and Harness Connector Location

INFOID:000000004655847



System Description

INFOID:000000004655848

- BCM (Body Control Module) controls headlamps low beam, high beam and daytime light operation.
- Daytime light system operates parking, license plate, side marker, tail lamps and headlamp low beam according to signals from unified meter and A/C amp. (receive parking brake switch signal through CAN communication), ECM (receive engine status signal through CAN communication), lighting switch, and ignition switch.
- IPDM E/R (Intelligent Power Distribution Module Engine Room) operates parking, license plate, side marker, tail lamps, headlamp bulbs and high beam solenoids according to CAN communication signals from BCM.
- Unified meter and A/C amp. operates high beam indicator lamp according to CAN communication signals from BCM.

OUTLINE

Power is supplied at all times

- to headlamp high relay, located in IPDM E/R and
- to headlamp low relay, located in IPDM E/R, from battery directly,
- through 15A fuse [No. 78, located in IPDM E/R]
- to CPU (central processing unit) located in IPDM E/R,
- through 40A fusible link [letter F, located in the fuse, fusible link and relay box]
- to BCM terminal 55,
- through 10A fuse [No.18, located in fuse block (J/B)]
- to BCM terminal 42,
- through 10A fuse [No. 71, located in IPDM E/R]
- to CPU located in IPDM E/R,
- through 10A fuse [No.19, located in fuse block (J/B)]
- to combination meter terminal 24,
- through 10A fuse [No.33, located in the fuse, fusible link and relay box]

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

- to daytime light relay terminals 1 and 3.
- With ignition switch in ON or START position, power is supplied
- to CPU located in IPDM E/R,
 - through 10A fuse [No. 1, located in fuse block (J/B)]
 - to BCM terminal 38,
 - through 10A fuse [No.14, located in fuse block (J/B)]
 - to combination meter terminal 23.

With ignition switch in ACC or ON position, power is supplied

- through 10A fuse [No. 6, located in fuse block (J/B)]
- to BCM terminal 11.

Ground is supplied

- to IPDM E/R terminals 38 and 60
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to BCM terminal 52
- through grounds M30 and M66,
- to combination meter terminals 10, 11 and 12
- through grounds M30 and M66.

HEADLAMP OPERATION

Low Beam Operation

With the lighting switch in 2ND position, the BCM receives input signal requesting the headlamps to illuminate. This input signal is communicated to the IPDM E/R through CAN communication. The CPU located in the IPDM E/R controls the headlamp low relay turned ON, which when energized, supplies power,

- through 15A fuse [No. 76, located in IPDM E/R]
- through IPDM E/R terminal 20
- to front combination lamp RH terminal 7,
- through 15A fuse [No. 86, located in IPDM E/R]
- through IPDM E/R terminal 30
- to front combination lamp LH terminal 7.

Ground is supplied

- to front combination lamp RH terminal 4, and
- to front combination lamp LH terminal 4
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone).

With power and ground supplied, headlamp bulbs illuminate.

High Beam Operation /Flash-to-Pass Operation

With the lighting switch in 2ND position and placed in HIGH or PASS position, the BCM receives input signal requesting headlamp high beams to illuminate. High beam request signal and low beam request signal is communicated to the IPDM E/R through CAN communication. The CPU located in the IPDM E/R controls headlamp high relay and headlamp low relay turned ON, which when energized, supplies power,

- through 15A fuse [No. 76, located in IPDM E/R]
- through IPDM E/R terminal 20
- to front combination lamp RH terminal 7,
- through 15A fuse [No. 86, located in IPDM E/R]
- through IPDM E/R terminal 30
- to front combination lamp LH terminal 7,
- through 10A fuse [No.72, located in IPDM E/R]
- through IPDM E/R terminal 27
- to front combination lamp RH terminal 3,
- through 10A fuse [No.74, located in IPDM E/R]
- through IPDM E/R terminal 28
- to front combination lamp LH terminal 3.

Ground is supplied

- to front combination lamp RH terminal 4, and
- to front combination lamp LH terminal 4
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone).

With the power and ground supplied, headlamp bulbs illuminate. High beam solenoids move the bulb shades in the front combination lamps, and the bulb shades change to high beam position.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Unified meter and A/C amp. receives signal from BCM through CAN communication, and then combination meter indicator illuminates high beam,

DAYTIME LIGHT OPERATION

Once the parking brake is turned OFF after ignition switch ON, if the lighting switch is turned OFF while engine is running, the BCM outputs the signal requesting parking, license plate, side marker, tail lamps and headlamp low beam to illuminate. This output signal is communicated to the IPDM E/R through CAN communication. The CPU located in the IPDM E/R controls headlamp low relay and daytime light relay turned ON, which when energized, supplies power,

- through 15A fuse [No.76, located in the IPDM E/R]
- through IPDM E/R terminal 20
- to front combination lamp RH terminal 7,
- through 15A fuse [No.86, located in the IPDM E/R]
- through IPDM E/R terminal 30
- to front combination lamp LH terminal 7,
- through 10A fuse [No.33, located in the fuse, fusible link and relay box]
- through daytime light relay terminal 2
- to IPDM E/R terminal 55,
- through daytime light relay terminal 5
- to front combination lamp RH terminal 6
- to front combination lamp LH terminal 6
- to rear combination lamp RH terminal 2
- to rear combination lamp LH terminal 2
- to license plate lamp RH terminal 2
- to license plate lamp LH terminal 2.

Ground is supplied

- to front combination lamp RH terminal 4
- to front combination lamp LH terminal 4
- to front combination lamp RH terminal 8
- to front combination lamp LH terminal 8
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to rear combination lamp RH terminal 3
- to rear combination lamp LH terminal 3
- to license plate lamp RH terminal 1
- to license plate lamp LH terminal 1
- through grounds B5, B6, D105 and T14 (Coupe models)
- through grounds B5, B6 and T14 (Roadster models).

With power and ground supplied, the headlamp low, parking, license plate and tail lamps illuminate.

OPERATION

Engine		With engine stopped									With engine running								
Lighting switch		OFF				1ST			2ND		OFF				1ST			2ND	
		OFF	Hi	P	T	Hi	P	Lo	Hi	P	OFF	Hi	P	T	Hi	P	Lo	Hi	P
Headlamp	High beams	—	—	—	—	—	×	—	×	×	—	—	×	—	—	×	—	×	×
	Low beams	—	—	—	—	—	—	×	—	—	×	×	—	×	×	—	×	—	—
Parking, license plate, side marker and tail lamps		—	—	—	×	—	×	×	×	×	×	×	—	×	×	×	×	×	×
Illumination		—	—	—	×	—	×	×	×	×	—	—	—	×	×	×	×	×	×

- T: "TAIL LAMP" position
- Hi: "HIGH BEAM" position
- Lo: "LOW BEAM" position
- P: "FLASH TO PASS" position
- ×: Lamp "ON"
- —: Lamp "OFF"

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

- *: Once the parking brake is turned OFF after ignition switch ON, parking, license plate, side marker, tail lamps and headlamp low are turned ON.

COMBINATION SWITCH READING FUNCTION

Refer to [BCS-4, "System Description"](#).

EXTERIOR LAMP BATTERY SAVER CONTROL

When the combination switch (lighting switch) is in the 2ND position (ON), and the ignition switch is turned from ON or ACC to OFF, the battery saver control function is activated.

Under this condition, the headlamps remain illuminated for 5 minutes, then the headlamps are turned off. Exterior lamp battery saver control mode can be changed by the function setting of CONSULT-III.

INTERLOCKED OPERATION WITH REMOTE KEYLESS ENTRY SYSTEM

Refer to [BL-52](#).

INTERLOCKED OPERATION WITH VEHICLE SECURITY SYSTEM

Refer to [BL-111](#).

XENON HEADLAMP

Xenon type lamps are used for headlamps. Xenon bulbs do not use a filament. Instead, they produce light when a high voltage current is passed between two tungsten electrodes through a mixture of xenon (an inert gas) and certain other metal halides. In addition to strong lighting power, electronic control of the power supply gives the headlamps stable quality and tone color.

Followings are some advantages of the xenon type headlamp.

- The light produced by the headlamps is white color similar to sunlight that is easy to the eyes.
- Light output is nearly double that of halogen headlamps, affording increased area of illumination.
- Counter-reflected luminance increases and the contrast enhances on the wet road in the rain. That makes visibility go up more than the increase of the light volume.
- Power consumption is approximately 25 percent less than halogen headlamps, reducing battery load.

CAN Communication System Description

INFOID:000000004655849

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

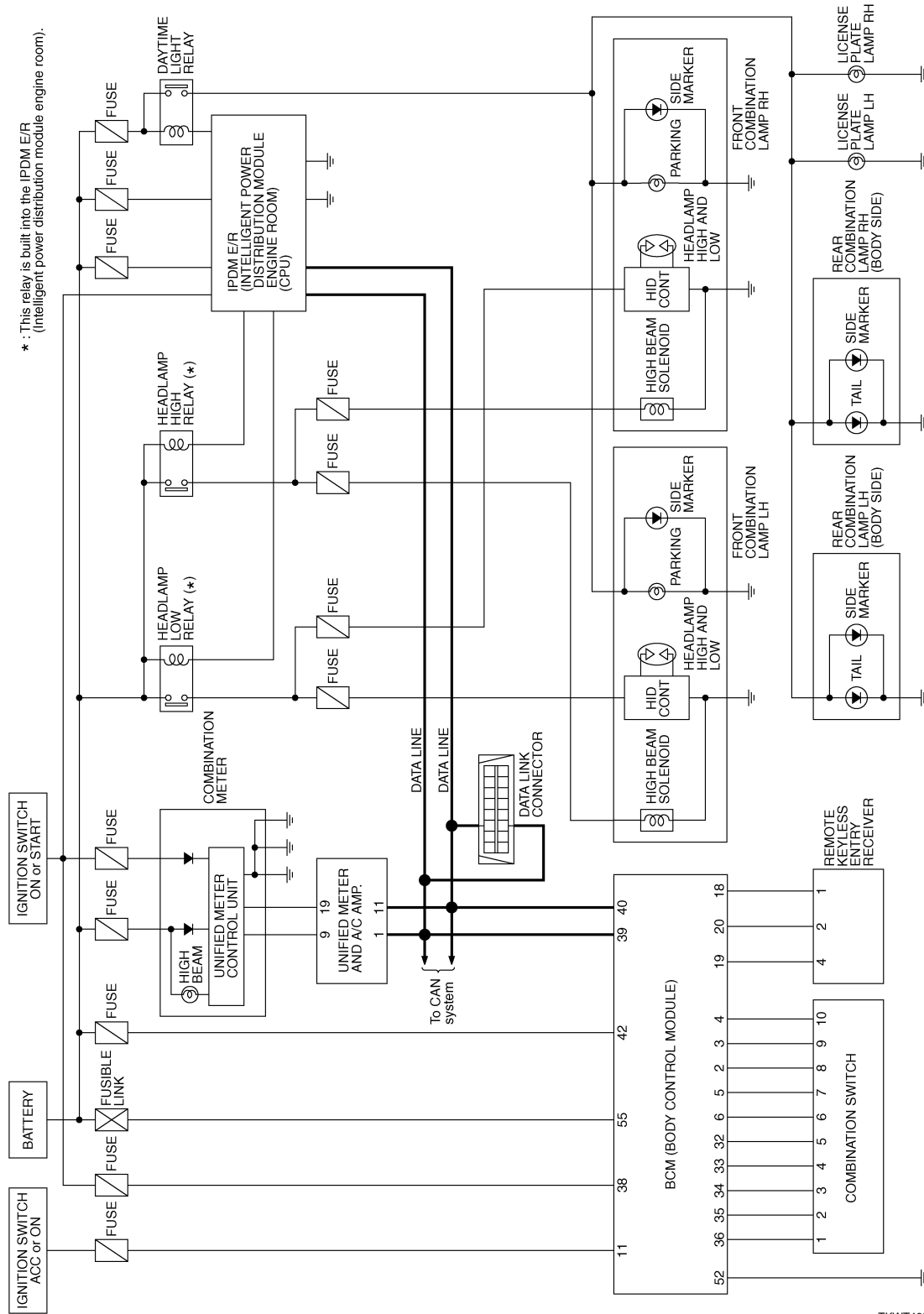
INFOID:000000004655850

Refer to [LAN-41, "CAN System Specification Chart"](#).

< SERVICE INFORMATION >

Schematic

INFOID:0000000004655851



TKWT4022E

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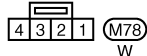
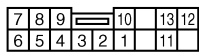
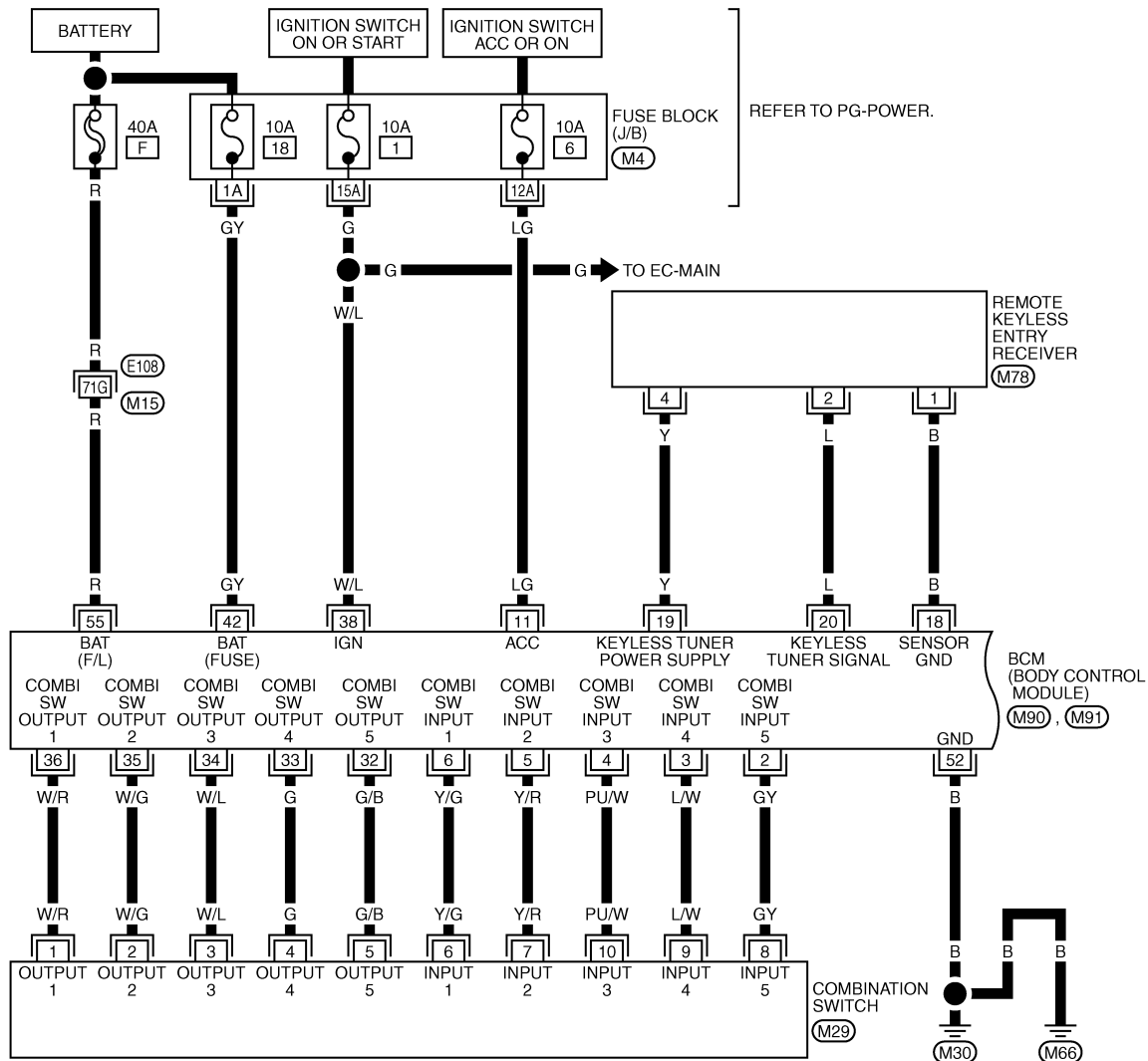
HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Wiring Diagram - DTRL -

INFOID:000000004655852

LT-DTRL-01



REFER TO THE FOLLOWING.

- (E108) -SUPER MULTIPLE JUNCTION (SMJ)
- (M4) -FUSE BLOCK-JUNCTION BOX (J/B)
- (M90), (M91) -ELECTRICAL UNITS

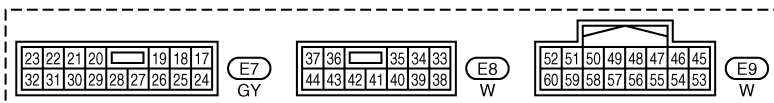
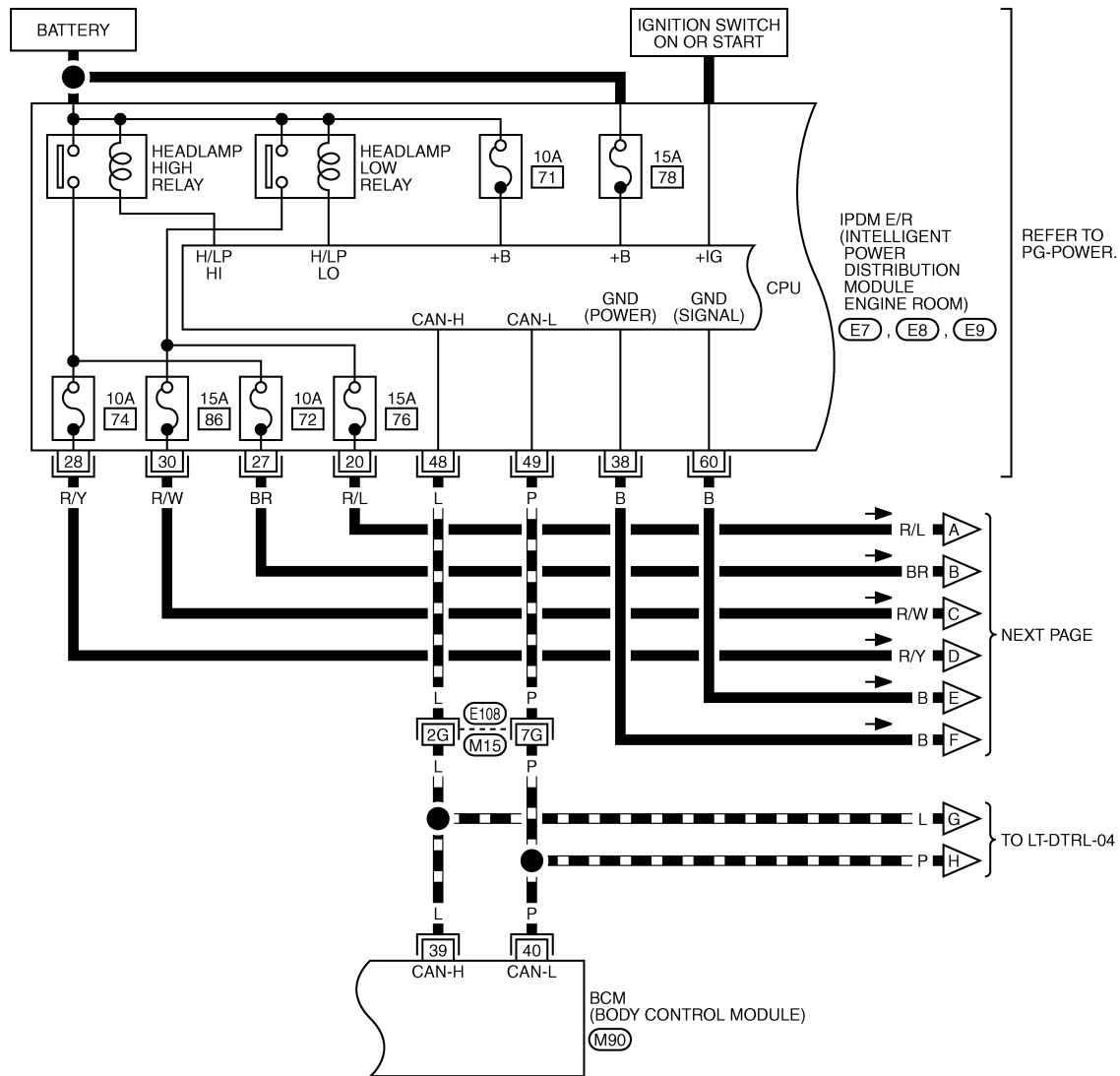
TKWT5747E

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

LT-DTRL-02

■ ■ ■ ■ : DATA LINE



REFER TO THE FOLLOWING.

E108 -SUPER MULTIPLE JUNCTION (SMJ)

M90 -ELECTRICAL UNITS



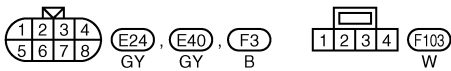
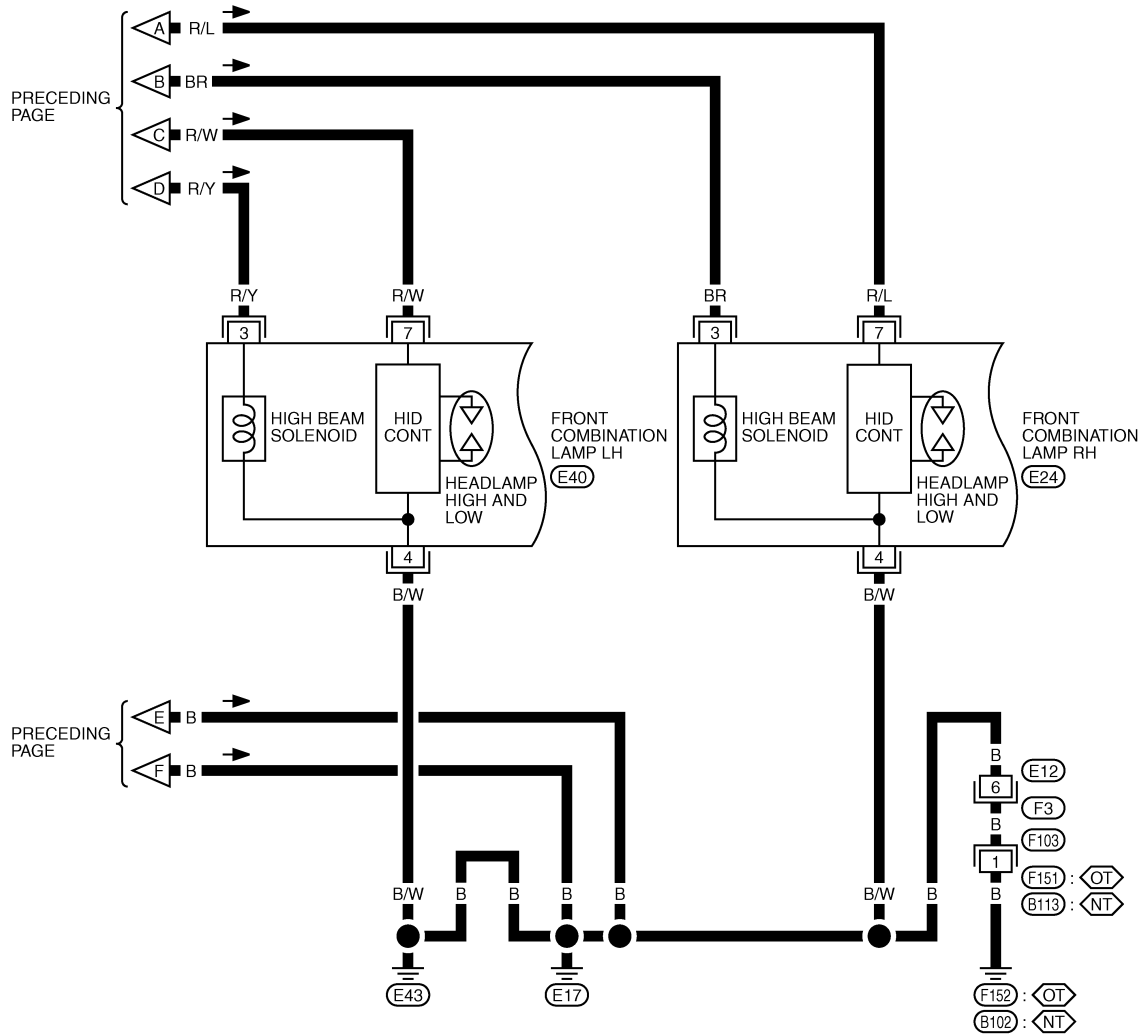
TKWT5748E

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

LT-DTRL-03

⬢NT⬢ : WITH VDC SYSTEM,
NAVIGATION SYSTEM OR TELEPHONE
⬢OT⬢ : WITHOUT VDC SYSTEM,
NAVIGATION SYSTEM AND TELEPHONE



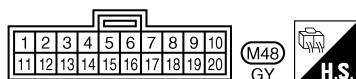
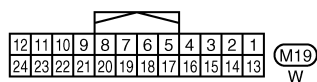
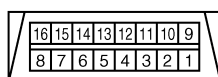
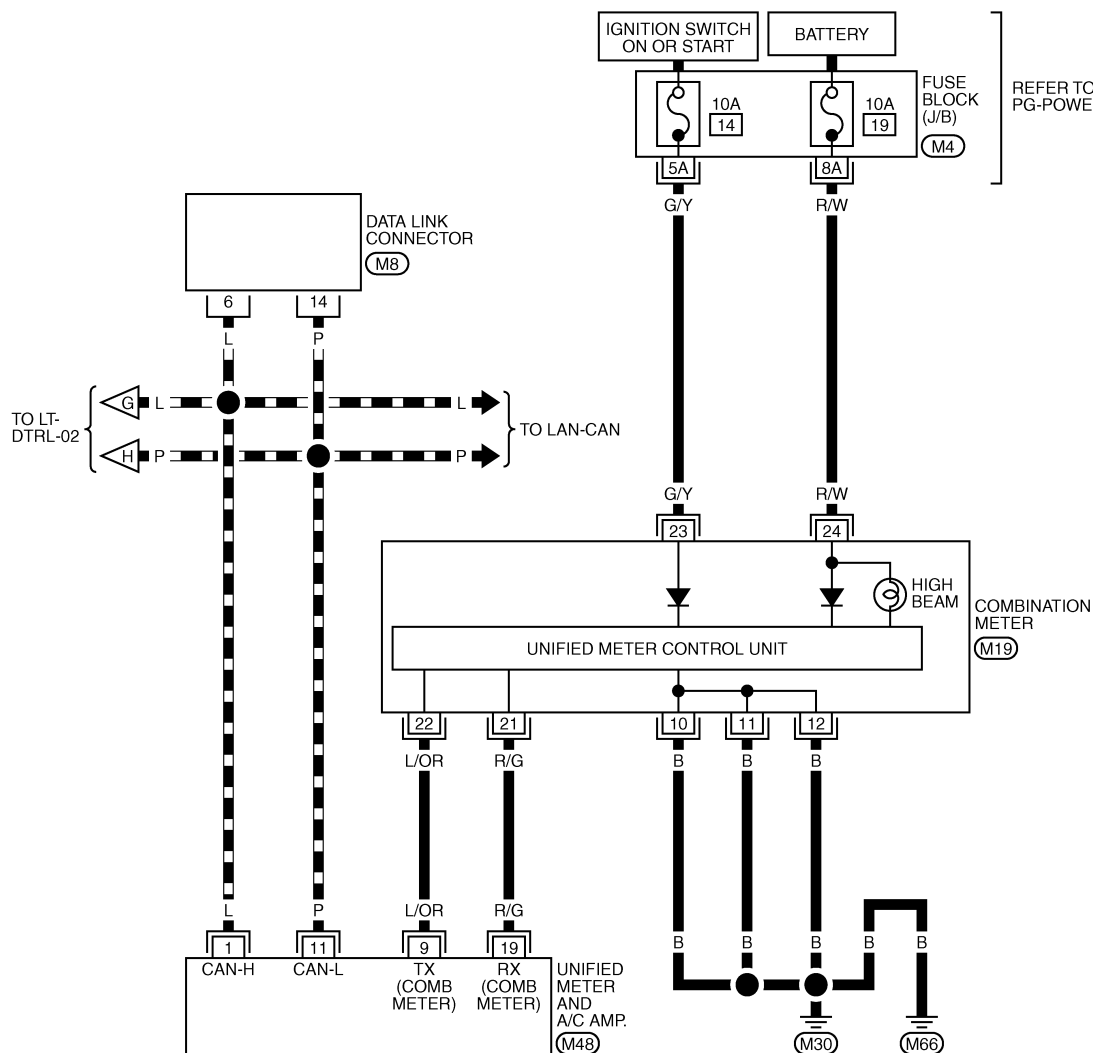
TKWT5749E

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

LT-DTRL-04

DATA LINE



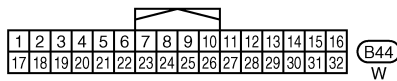
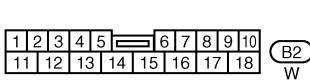
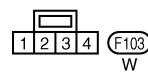
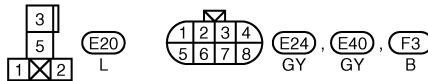
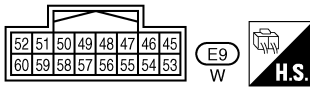
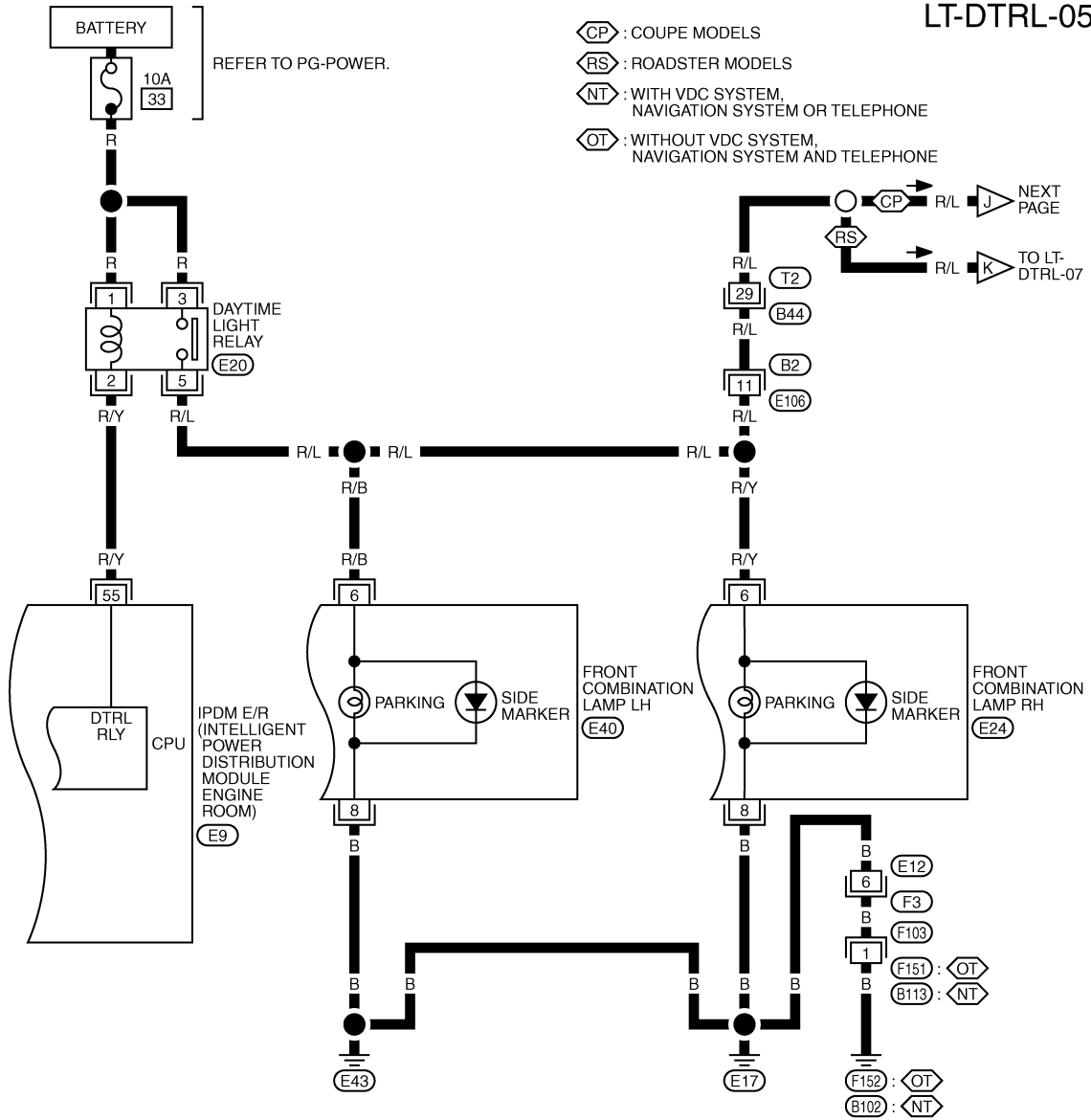
REFER TO THE FOLLOWING.
(M4) - FUSE BLOCK-JUNCTION BOX (J/B)

TKWT4026E

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

LT-DTRL-05



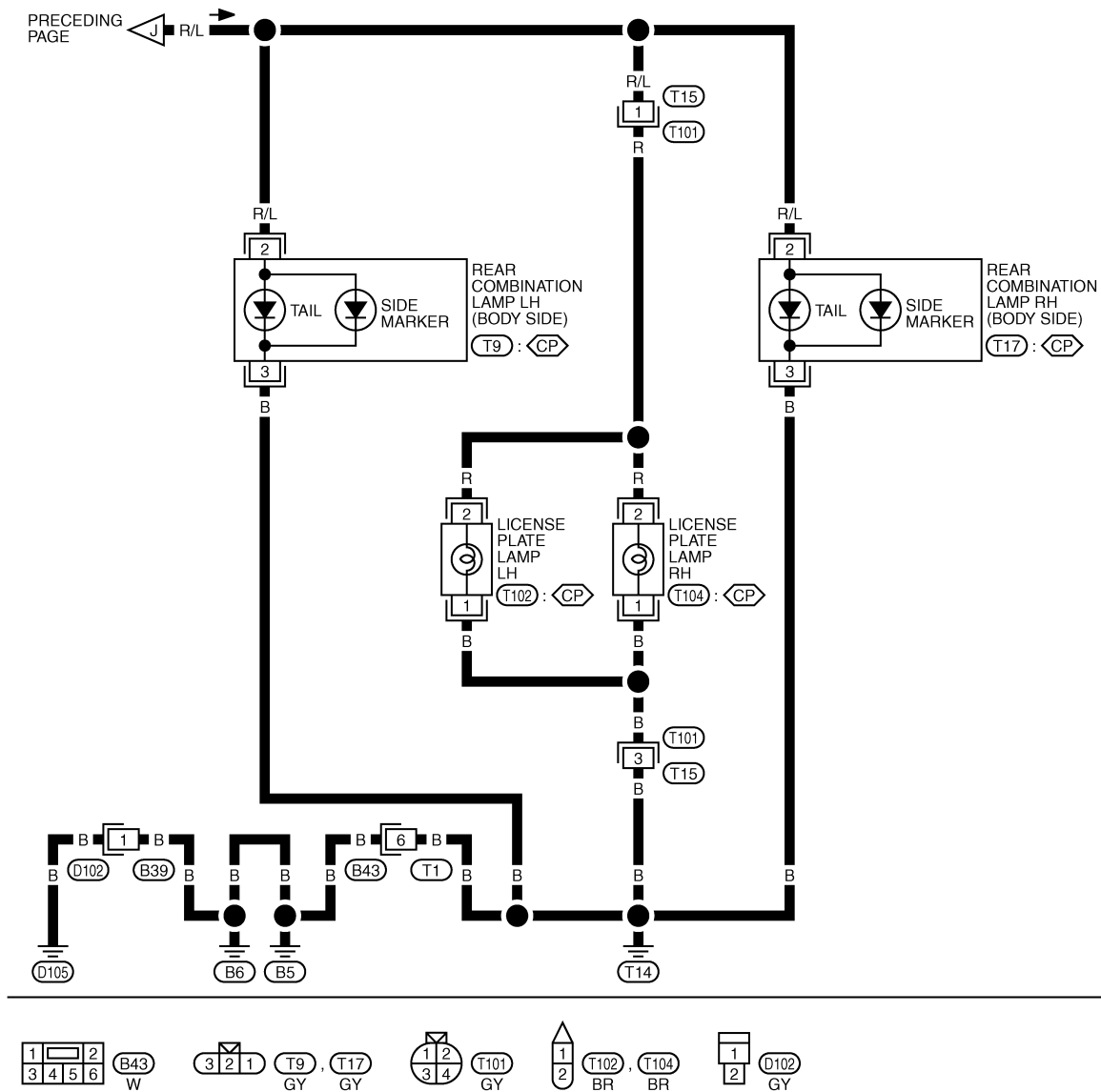
TKW75750E

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

LT-DTRL-06

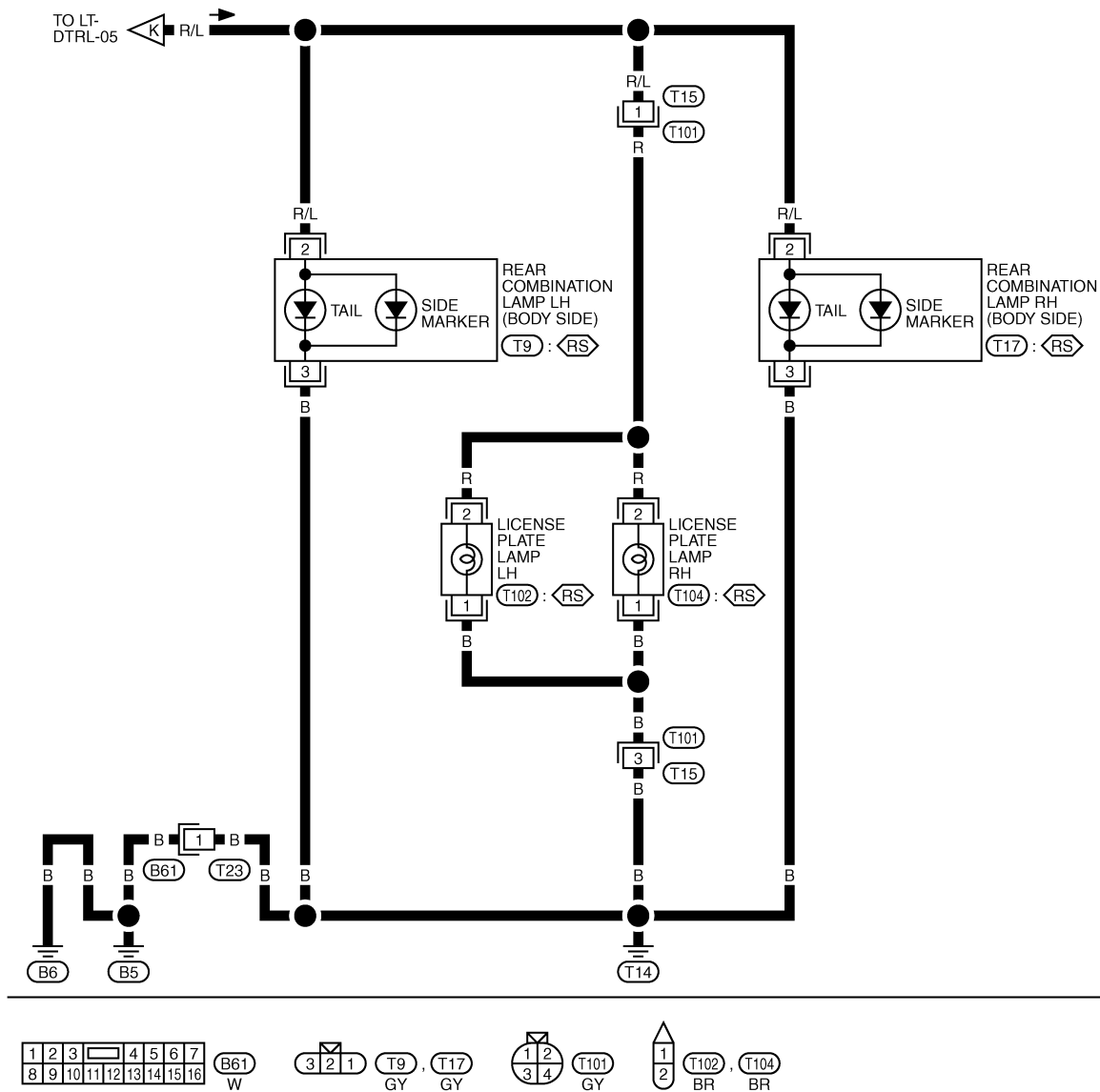
CP : COUPE MODELS



TKWT4028E

< SERVICE INFORMATION >

 : ROADSTER MODELS



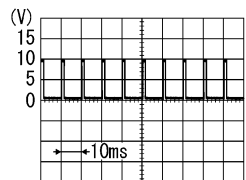
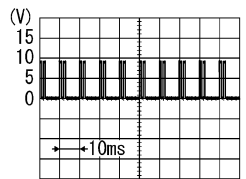
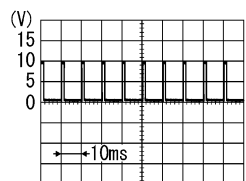
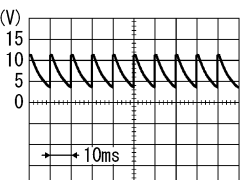
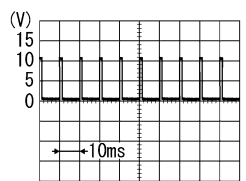
INFOID:0000000004655853

CAUTION:

- Revision: 2009 October

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

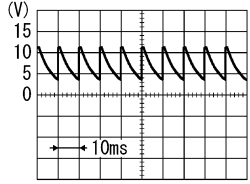
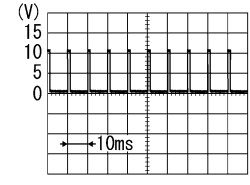
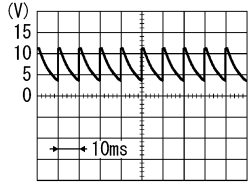
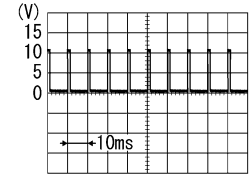
< SERVICE INFORMATION >

Ter- minal No.	Wire color	Signal name	Measuring condition		Reference value	
			Ignition switch	Operation or condition		
2	GY	Combination switch input 5	ON		OFF	Approx. 0 V
				Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	Any of the conditions below	 PKIB4959J
					• Lighting switch 1ST	Approx. 1.0 V
					• Lighting switch HIGH beam (Operates only HIGH beam switch)	
		Lighting switch 2ND	 PKIB4953J			
3	L/W	Combination switch input 4	ON		OFF	Approx. 0 V
				Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	Any of the conditions below	 PKIB4959J
					• Lighting switch 2ND	Approx. 1.0 V
					• Lighting switch PASSING (Operates only PASSING switch)	
11	LG	Ignition switch (ACC)	ACC	—		Battery voltage
33	G	Combination switch output 4	ON		OFF	 PKIB4960J
				Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)		Approx. 7.2 V
					Lighting switch 1ST (The same re- sult with lighting switch 2ND)	 PKIB4958J

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HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
34	W/L	Combination switch output 3	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	 <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below	 <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
35	W/G	Combination switch output 2	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	 <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below	 <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
38	W/L	Ignition switch (ON)	ON	—	Battery voltage
39	L	CAN – H	—	—	—
40	P	CAN – L	—	—	—
42	GY	Battery power supply	OFF	—	Battery voltage
52	B	Ground	ON	—	Approx. 0 V
55	R	Battery power supply	OFF	—	Battery voltage

Terminal and Reference Value for IPDM E/R

INFOID:0000000004655854

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
20	R/L	Headlamp low (RH)	ON	Lighting switch 2ND position	OFF
					ON
					Approx. 0 V
					Battery voltage

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Terminal No.	Wire color	Signal name	Measuring condition			Reference value
			Ignition switch	Operation or condition		
27	BR	Headlamp high (RH)	ON	Lighting switch HIGH or PASS position	OFF	Approx. 0 V
					ON	Battery voltage
28	R/Y	Headlamp high (LH)	ON	Lighting switch HIGH or PASS position	OFF	Approx. 0 V
					ON	Battery voltage
30	R/W	Headlamp low (LH)	ON	Lighting switch 2ND position	OFF	Approx. 0 V
					ON	Battery voltage
38	B	Ground	ON	—		Approx. 0 V
48	L	CAN – H	—	—		—
49	P	CAN – L	—	—		—
55	R/Y	Daytime light relay signal	ON	Lighting switch 1ST position	OFF	Approx. 0 V
					ON	Battery voltage
60	B	Ground	ON	—		Approx. 0 V

How to Proceed with Trouble Diagnosis

INFOID:000000004655855

1. Confirm the symptom or customer complaint.
2. Understand operation description and function description. Refer to [LT-31, "System Description"](#).
3. Perform the preliminary check. Refer to [LT-45, "Preliminary Check"](#).
4. Check symptom and repair or replace the cause of malfunction.
5. Does headlamp operate normally? If YES, GO TO 6. If NO, GO TO 4.
6. INSPECTION END

Preliminary Check

INFOID:000000004655856

CHECK POWER SUPPLY AND GROUND CIRCUIT

1.CHECK FUSES AND FUSIBLE LINK

Check for blown fuses and fusible link.

UNIT	POWER SOURCE	Fuse and fusible link No.
BCM	Battery	F
		18
	Ignition switch ON or START position	1
	Ignition switch ACC or ON position	6
IPDM E/R	Battery	33
		72
		74
		76
		86

Refer to [LT-36, "Wiring Diagram - DTRL -"](#).

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-4](#).

2.CHECK POWER SUPPLY CIRCUIT

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

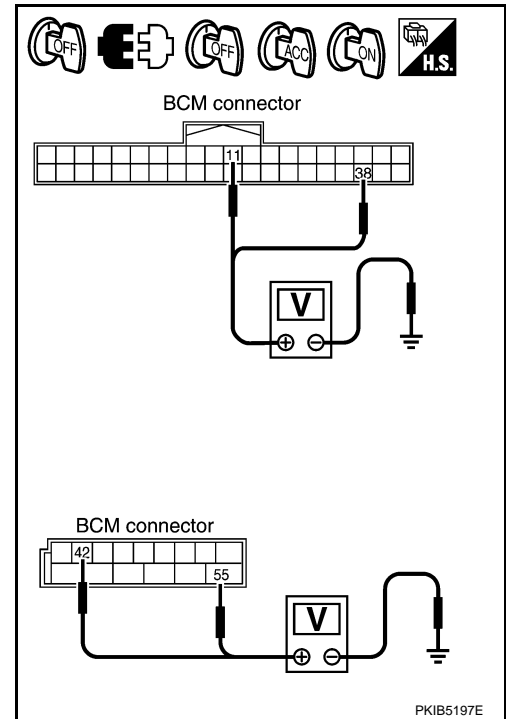
< SERVICE INFORMATION >

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

Terminals		Ignition switch position			
(+)		(-)	OFF	ACC	ON
BCM connector	Terminal				
M90	11	Ground	Approx. 0 V	Battery voltage	Battery voltage
	38		Approx. 0 V	Approx. 0 V	Battery voltage
M91	42		Battery voltage	Battery voltage	Battery voltage
	55		Battery voltage	Battery voltage	Battery voltage

OK or NG

- OK >> GO TO 3.
NG >> Repair harness or connector.



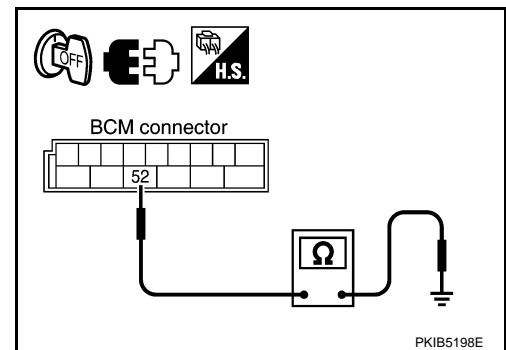
3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector and ground.

BCM connector	Terminal	Ground	Continuity
M91	52		Yes

OK or NG

- OK >> INSPECTION END
NG >> Repair harness or connector.



CONSULT-III Function (BCM)

INFOID:000000004655857

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

BCM diagnosis part	Diagnosis mode	Description
HEADLAMP	WORK SUPPORT	Changes the setting for each function.
	DATA MONITOR	Displays BCM input data in real time.
	ACTIVE TEST	Operation of electrical loads can be checked by sending drive signal to them.
BCM	SELF-DIAG RESULTS	BCM performs self-diagnosis of CAN communication.
	CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.

WORK SUPPORT

Display Item List

Item	Description	CONSULT-III	Factory setting
BATTERY SAVER SET	Exterior lamp battery saver control mode can be changed in this mode. Select exterior lamp battery saver control mode between two ON/OFF.	ON	×
		OFF	—

DATA MONITOR

Display Item List

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Monitor item		Contents
IGN ON SW	"ON/OFF"	Displays "IGN position (ON)/OFF, ACC position (OFF)" judged from the ignition switch signal.
ACC ON SW	"ON/OFF"	Displays "ACC (ON)/OFF, Ignition OFF (OFF)" status judged from ignition switch signal.
HI BEAM SW	"ON/OFF"	Displays status (high beam switch: ON/Others: OFF) of high beam switch judged from lighting switch signal.
HEAD LAMP SW 1	"ON/OFF"	Displays status (headlamp switch 1: ON/Others: OFF) of headlamp switch 1 judged from lighting switch signal.
HEAD LAMP SW 2	"ON/OFF"	Displays status (headlamp switch 2: ON/Others: OFF) of headlamp switch 2 judged from lighting switch signal.
LIGHT SW 1 ST	"ON/OFF"	Displays status (lighting switch 1ST or 2ND position: ON/Others: OFF) of lighting switch judged from lighting switch signal.
PASSING SW	"ON/OFF"	Displays status (flash-to-pass switch: ON/Others: OFF) of flash-to-pass switch judged from lighting switch signal.
FR FOG SW ^{NOTE}	"ON/OFF"	—
DOOR SW - DR	"ON/OFF"	Displays status of driver door as judged from driver door switch signal. (Door is open: ON/Door is closed: OFF)
DOOR SW - AS	"ON/OFF"	Displays status of passenger door as judged from passenger door switch signal. (Door is open: ON/Door is closed: OFF)
DOOR SW - RR ^{NOTE}	"OFF"	—
DOOR SW - RL ^{NOTE}	"OFF"	—
BACK DOOR SW	"ON/OFF"	<ul style="list-style-type: none"> Displays status of back door as judged from back door switch signal. (Coupe models) Displays status of rear trunk hood as judged from trunk lamp switch signal. (Roadster models)
TURN SIGNAL R	"ON/OFF"	Displays status (Turn right: ON/Others: OFF) as judged from lighting switch signal.
TURN SIGNAL L	"ON/OFF"	Displays status (Turn left: ON/Others: OFF) as judged from lighting switch signal.
ENGINE RUN	"ON/OFF"	Displays status (engine running: ON/ engine stopped: OFF) of engine judged from engine run signal.
PKB SW	"ON/OFF"	Displays status (parking brake released: ON/ parking brake applied: OFF) of parking brake switch judged from parking brake switch signal.
CARGO LAMP SW ^{NOTE}	"OFF"	—

NOTE:

This item is displayed, but cannot be monitored.

ACTIVE TEST

Display Item List

Test item	Description
TAIL LAMP	Allows tail lamp relay to operate by switching ON–OFF.
HEAD LAMP	Allows headlamp relay to operate by switching ON–OFF.
FR FOG LAMP ^{NOTE}	—
CORNERING LAMP ^{NOTE}	—
DAYTIME RUNNING LIGHT	Allows headlamp low relay and daytime light relay to operate switching ON–OFF.

NOTE:

This item is displayed, but cannot be tested.

CONSULT-III Function (IPDM E/R)

INFOID:000000004655858

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Check Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	Refer to PG-17. "CONSULT-III Function (IPDM E/R)" .
DATA MONITOR	The input/output data of IPDM E/R is displayed in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	IPDM E/R sends a drive signal to electronic components to check their operation.

DATA MONITOR

All Signals, Main Signals, Selection From Menu

Item name	CONSULT-III screen display	Display or unit	Monitor item selection			Description
			ALL SIG-NALS	MAIN SIGNALS	SELECTION FROM MENU	
Position lights request	TAIL&CLR REQ	ON/OFF	×	×	×	Signal status input from BCM
Headlamp low beam request	HL LO REQ	ON/OFF	×	×	×	Signal status input from BCM
Headlamp high beam request	HL HI REQ	ON/OFF	×	×	×	Signal status input from BCM
Daytime running light request	DTRL REQ	ON/OFF	×		×	Signal status input from BCM

NOTE:

Perform monitoring of IPDM E/R data with ignition switch ON. When ignition switch is at ACC, the display may not be correct.

ACTIVE TEST

Display Item List

Test item	CONSULT-III screen display	Description
Tail lamp relay output	TAIL LAMP	Allows tail lamp relay to operate by switching operation ON–OFF at your option.
Headlamp relay (HI, LO) output	LAMPS	Allows headlamp relay (HI, LO) to operate by switching operation (OFF, HI ON, LO ON) at your option (Headlamp high beam repeats ON–OFF every 1 second).

Daytime Light Control Does Not Operate

INFOID:000000004655859

NOTE:

Check if parking, license plate, side marker, tail lamps and head lamps low operates normally.

1. ACTIVE TEST

ⓘ CONSULT-III ACTIVE TEST

1. Select "DAYTIME RUNNING LIGHT" of BCM active test item.
2. With operating the test item, check the headlamp low beam, parking, license plate and tail lamps operate.

Headlamp low beam, parking, license plate and tail lamps should operate.

OK or NG

- OK >> GO TO 2.
 NG >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).

2. CHECK INPUT SIGNAL

ⓘ CONSULT-III DATA MONITOR

1. Select "HEAD LAMP" of BCM data monitor item.
2. With the engine running or stop, check the monitor status.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

Engine running : ENGINE RUN ON
Engine stop : ENGINE RUN OFF

3. With operating the parking brake, check the monitor status.

Parking brake ON : PKB SW ON
Parking brake OFF : PKB SW OFF

OK or NG

- OK >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).
NG >> Refer to [BCS-15, "U1000 CAN Communication Circuit"](#).

Headlamp Does Not Change To High Beam (Both Sides)

INFOID:000000004655860

1.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "HEAD LAMP" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is : HI BEAM SW ON
HIGH BEAM

Without CONSULT-III

Refer to [LT-86, "Combination Switch Inspection"](#).

OK or NG

- OK >> GO TO 2.
NG >> Check combination switch (lighting switch). Refer to [LT-86, "Combination Switch Inspection"](#).

2.HEADLAMP ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "LAMPS" of IPDM E/R active test item.
2. With operating the test item, check the headlamp high beam operation.

Headlamp high beam should operate.
(Headlamp high beam repeats ON-OFF every 1 second).

Without CONSULT-III

1. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
2. Check that the headlamp high beam operation.

Headlamp high beam should operate.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 4.

3.CHECK IPDM E/R

1. Select "HL LO REQ" and "HL HI REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status

When lighting switch is : HL LO REQ ON
HIGH BEAM : HL HI REQ ON

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
NG >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).

4.CHECK HEADLAMP INPUT SIGNAL

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

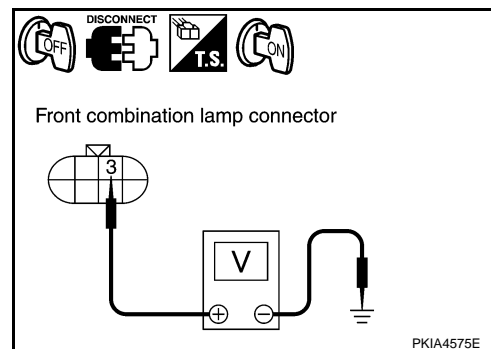
ⓈCONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Select "LAMPS" of IPDM E/R active test item
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

NOTE:

Headlamp high beam repeats ON-OFF every 1 second.

Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
Front combination lamp connector				
RH	E24	3	Ground	Battery voltage
LH	E40	3		



ⓧIPDM E/R AUTO ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Start auto active test. Refer to [PG-19. "Auto Active Test"](#).
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

NOTE:

Headlamp high beam repeats ON-OFF every 1 second.

Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
Front combination lamp connector				
RH	E24	3	Ground	Battery voltage
LH	E40	3		

OK or NG

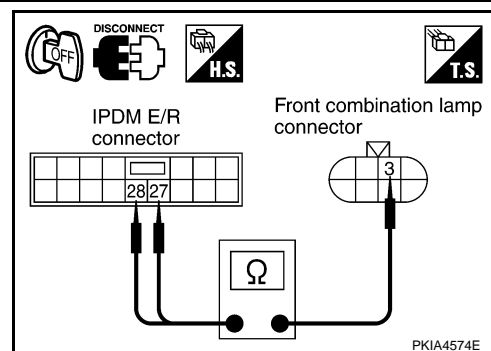
OK >> GO TO 6.

NG >> GO TO 5.

5.CHECK HEADLAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp (RH and LH) harness connector.

Terminals					Continuity
IPDM E/R			Front combination lamp		
Connector		Terminal	Connector	Terminal	
RH	E7	27	E24	3	Yes
LH		28	E40	3	



OK or NG

OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).

NG >> Repair harness or connector.

6.CHECK HEADLAMP GROUND

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

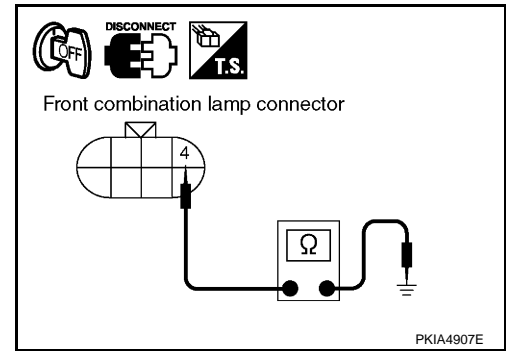
< SERVICE INFORMATION >

Check continuity between front combination lamp (RH and LH) harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		

OK or NG

- OK >> Check headlamp harness, connector and bulb.
 NG >> Repair harness or connector.



Headlamp Does Not Change To High Beam (One Side)

INFOID:000000004655861

1.CHECK HEADLAMP INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH or LH connector.
3. Turn ignition switch ON.
4. Lighting switch is turned HIGH BEAM position.
5. Check voltage between front combination lamp RH or LH harness connector and ground.

Terminals				Voltage (Approx.)
(+)			(-)	
Front combination lamp connector		Terminal		
RH	E24	3	Ground	Battery voltage
LH	E40	3		

OK or NG

- OK >> GO TO 3.
 NG >> GO TO 2.

2.CHECK HEADLAMP CIRCUIT

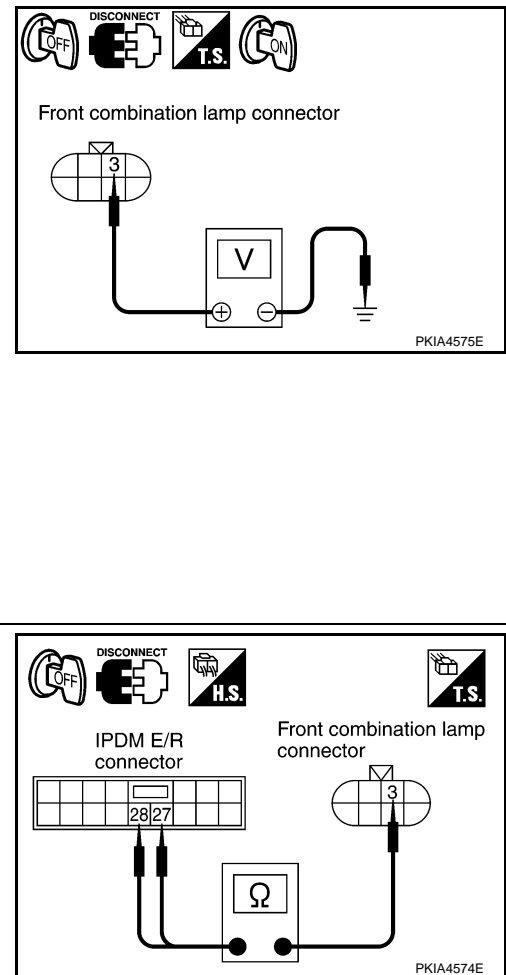
1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp RH or LH harness connector.

Terminals					Continuity
IPDM E/R			Front combination lamp		
Connector		Terminal	Connector	Terminal	
RH	E7	27	E24	3	Yes
LH		28	E40	3	

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
 NG >> Repair harness or connector.

3.CHECK HEADLAMP GROUND



HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

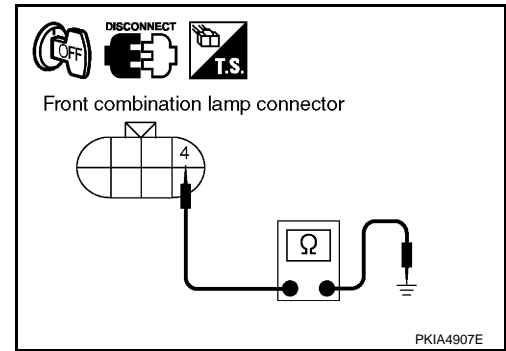
< SERVICE INFORMATION >

Check continuity between front combination lamp RH or LH harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		

OK or NG

- OK >> Check headlamp harness and connector.
NG >> Repair harness or connector.



INFOID:000000004655862

High Beam Indicator Lamp Does Not Illuminate

1.CHECK BULB

Check bulb of high beam indicator lamp.

OK or NG

- OK >> Replace combination meter. Refer to [DI-22, "Removal and Installation for Combination Meter"](#).
NG >> Replace indicator bulb.

Headlamp Low Beam Does Not Illuminate (Both Sides)

INFOID:000000004655863

1.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "HEAD LAMP SW1" and "HEAD LAMP SW2" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

**When lighting switch is 2ND : HEAD LAMP SW 1 ON
: HEAD LAMP SW 2 ON**

CHECK COMBINATION SWITCH

Refer to [LT-86, "Combination Switch Inspection"](#).

OK or NG

- OK >> GO TO 2.
NG >> Check combination switch (lighting switch). Refer to [LT-86, "Combination Switch Inspection"](#).

2.HEADLAMP ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "LAMPS" of IPDM E/R active test item.
2. With operating the test item, check the headlamp low beam operation.

Headlamp low beam should operate.

IPDM E/R AUTO ACTIVE TEST

1. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
2. Check that the headlamp low beam operation.

Headlamp low beam should operate.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 4.

3.CHECK IPDM E/R

1. Select "HL LO REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

When lighting switch is 2ND : HL LO REQ ON position

OK or NG

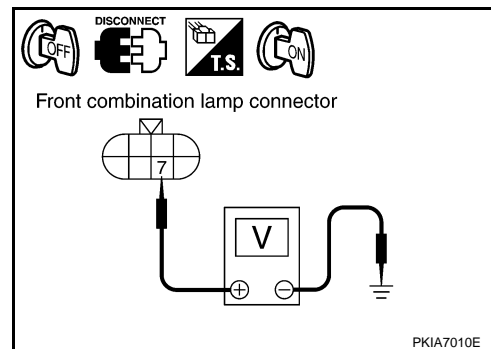
- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
NG >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).

4.CHECK HEADLAMP INPUT SIGNAL

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Select "LAMPS" of IPDM E/R active test item.
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

Terminals				Voltage (Approx.)
(+) Front combination lamp connector		Terminal	(-)	
RH	E24	7		
LH	E40	7	Ground	Battery voltage



IPDM E/R AUTO ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH and LH connector.
3. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
4. With operating the test item, check voltage between front combination lamp (RH and LH) harness connector and ground.

Terminals				Voltage (Approx.)
(+) Front combination lamp connector		Terminal	(-)	
RH	E24	7		
LH	E40	7	Ground	Battery voltage

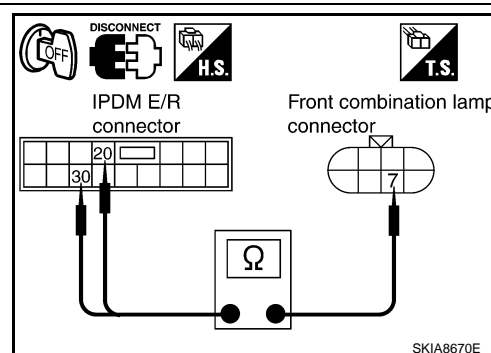
OK or NG

- OK >> GO TO 6.
NG >> GO TO 5.

5.CHECK HEADLAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp (RH and LH) harness connector.

Terminals					Continuity
IPDM E/R			Front combination lamp		
Connector		Terminal	Connector	Terminal	
RH	E7	20	E24	7	Yes
LH		30	E40	7	



OK or NG

- OK >> Replace IPDM E/R.
NG >> Repair harness or connector.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

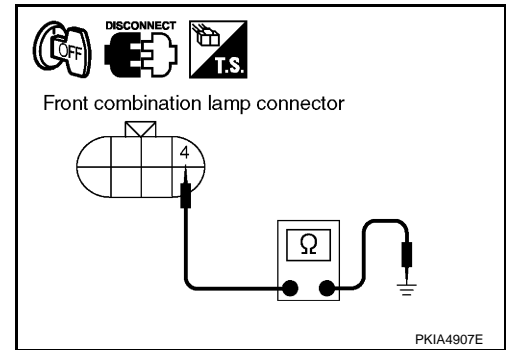
6.CHECK HEADLAMP GROUND

1. Turn ignition switch OFF.
2. Check continuity between front combination lamp (RH and LH) harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		

OK or NG

- OK >> Check headlamp harness and connectors, ballasts (HID control unit), and xenon bulbs. Refer to [LT-56. "Xenon Headlamp Trouble Diagnosis"](#).
- NG >> Repair harness or connector.



Headlamp Low Beam Does Not Illuminate (One Side)

INFOID:000000004655864

1.CHECK BULB

Check ballast (HID control unit) and xenon bulb of lamp which does not illuminate. Refer to [LT-56. "Xenon Headlamp Trouble Diagnosis"](#).

OK or NG

- OK >> GO TO 2.
- NG >> Replace malfunctioning part.

2.CHECK HEADLAMP INPUT SIGNAL

1. Turn ignition switch OFF.
2. Disconnect front combination lamp RH or LH connector.
3. Turn ignition switch ON.
4. Lighting switch is turned 2ND position.
5. Check voltage between front combination lamp RH or LH harness connector and ground.

Terminals			Voltage (Approx.)
(+)		(-)	
Front combination lamp connector	Terminal		
RH	E24	7	Battery voltage
LH	E40	7	

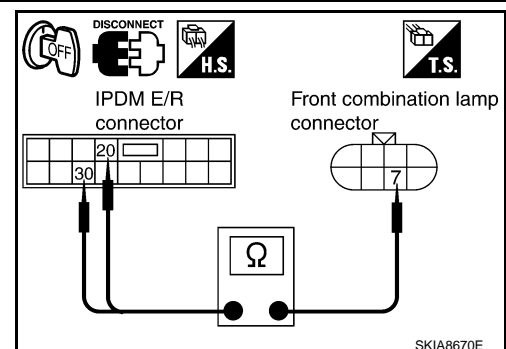
OK or NG

- OK >> GO TO 4.
- NG >> GO TO 3.

3.CHECK HEADLAMP CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp RH or LH harness connector.

Terminals					Continuity
IPDM E/R			Front combination lamp		
Connector		Terminal	Connector	Terminal	
RH	E7	20	E24	7	Yes
LH		30	E40	7	



HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

OK or NG

- OK >> Replace IPDM E/R.
- NG >> Repair harness or connector.

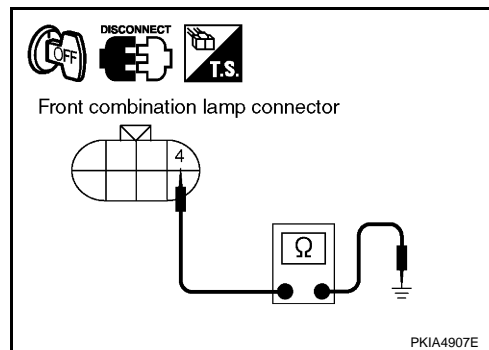
4.CHECK HEADLAMP GROUND

Check continuity between front combination lamp RH or LH harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	4		Yes
LH	E40	4		

OK or NG

- OK >> Check headlamp harness and connector.
- NG >> Repair harness or connector.



INFOID:000000004655865

Headlamps Does Not Turn OFF

1.CHECK HEADLAMP TURN OFF

Make sure that lighting switch is OFF. And check if headlamp turns off when ignition switch is turned OFF.

OK or NG

- OK >> GO TO 3.
- NG >> GO TO 2.

2.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

- Select "HEAD LAMP1" and "HEAD LAMP2" of BCM data monitor item.
- With operating the lighting switch, check the monitor status.

When lighting switch is OFF : HEAD LAMP SW1 OFF
: HEAD LAMP SW2 OFF

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).
- NG >> Check combination switch (lighting switch). Refer to [LT-86. "Combination Switch Inspection"](#).

3.CHECKING CAN COMMUNICATIONS BETWEEN BCM AND IPDM E/R

Perform self-diagnosis for "BCM" with CONSULT-III.

Display of self-diagnosis results

- NO DTC>> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).
- CAN COMM CIRCUIT>> Refer to [BCS-15. "U1000 CAN Communication Circuit"](#).

General Information for Xenon Headlamp Trouble Diagnosis

INFOID:000000004655866

In most cases, malfunction of xenon headlamp - "does not illuminate", "flickers" or "dark" - is caused by a malfunctioning xenon bulb. A malfunctioning HID control unit or lamp housing, however, may be a cause. Be sure to perform trouble diagnosis following the steps described below.

Caution:

INFOID:000000004655867

- Installation or removal of connector must be done with lighting switch OFF.
- Disconnect the battery cable from the negative terminal or remove power fuse.

CAUTION:

After the battery cables are disconnected, never open/close the driver and/or front passenger door with the window in the full up position. The automatic window adjusting function will not work and the side roof panel may be damaged.

- When the lamp is illuminated (when lighting switch is ON), never touch harness, HID control unit, inside of lamp, or lamp metal parts.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

- To check illumination, temporarily install lamp in vehicle. Be sure to connect power at vehicle side connector.
- If error can be traced directly to electrical system, first check for items such as blown fuses and fusible links, broken wires or loose connectors, dislocated terminals, and improper connections.
- Never work with wet hands.
- Using a tester for HID control unit circuit trouble diagnosis is prohibited.
- Disassembling HID control unit or harnesses (bulb socket harness, ECM harness) is prohibited.
- Immediately after illumination, light intensity and color will fluctuate, but there is nothing wrong.
- When bulb has come to end of its life, brightness will drop significantly, it will flash repeatedly, or light color will turn reddish.

Xenon Headlamp Trouble Diagnosis

INFOID:000000004655868

1.CHECK 1: XENON HEADLAMP LIGHTING

Install normal xenon bulb to corresponding xenon bulb headlamp, and check if lamp lights up.

OK or NG

- OK >> Replace xenon bulb.
NG >> GO TO 2.

2.CHECK 2: XENON HEADLAMP LIGHTING

Install normal HID control unit to corresponding xenon headlamp, and check if lamp lights up.

OK or NG

- OK >> Replace HID control unit.
NG >> GO TO 3.

3.CHECK 3: XENON HEADLAMP LIGHTING

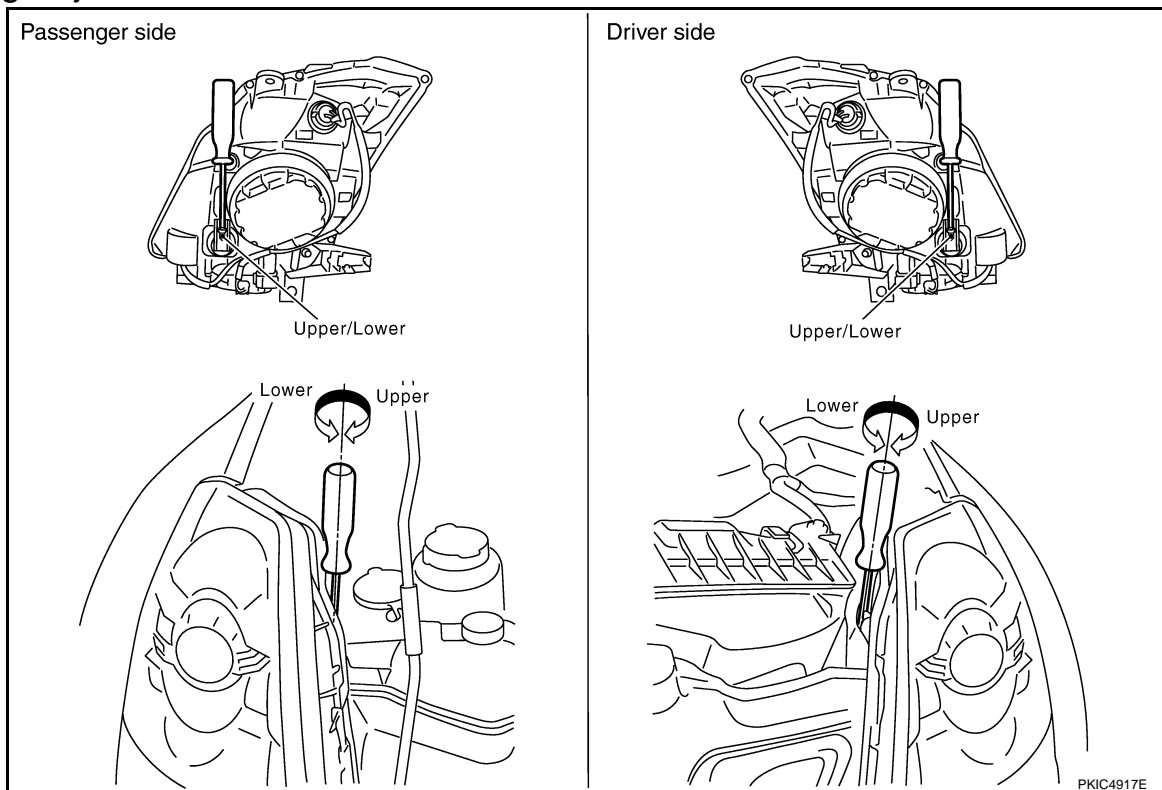
Install normal xenon lamp housing assembly to corresponding xenon headlamp, and check if lamp lights up.

OK or NG

- OK >> Replace xenon headlamp housing assembly. [Malfunction in starter (boosting circuit) in xenon headlamp housing]
NG >> INSPECTION END

Aiming Adjustment

INFOID:000000004655869



PREPARATION BEFORE ADJUSTING

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

For details, refer to the regulations in your own country.

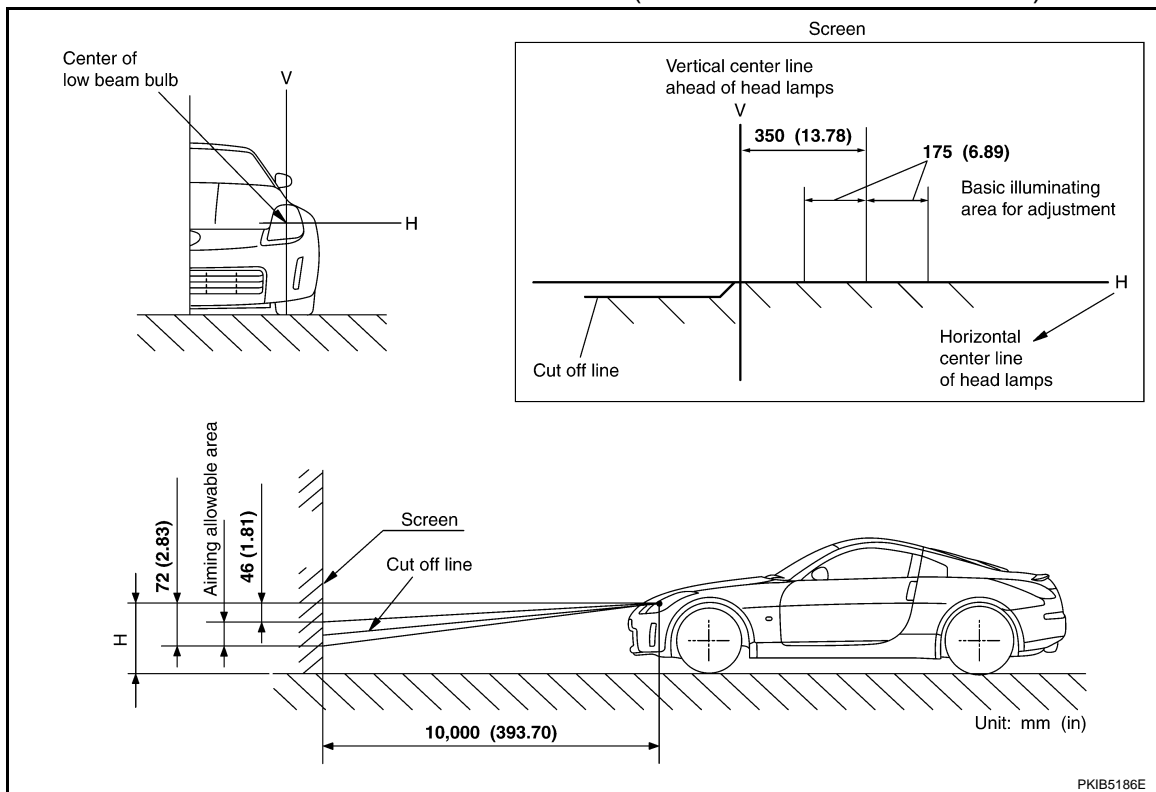
Before performing aiming adjustment, check the following.

1. Keep all tires inflated to correct pressures.
2. Place vehicle on level surface.
3. Set that there is no-load in vehicle other than the driver (or equivalent weight placed in driver's position). Coolant, engine oil filled up to correct level and full fuel tank.

LOW BEAM AND HIGH BEAM

1. Turn headlamp low beam ON.
2. Use adjusting screws to perform aiming adjustment.

ADJUSTMENT USING AN ADJUSTMENT SCREEN (LIGHT/DARK BORDERLINE)



If the vehicle front body has been repaired and/or the headlamp assembly has been replaced, check aiming. Use the aiming chart shown in the figure.

- Basic illumination area for adjustment should be within the range shown on the aiming chart. Adjust headlamp accordingly.

Bulb Replacement

INFOID:000000004655870

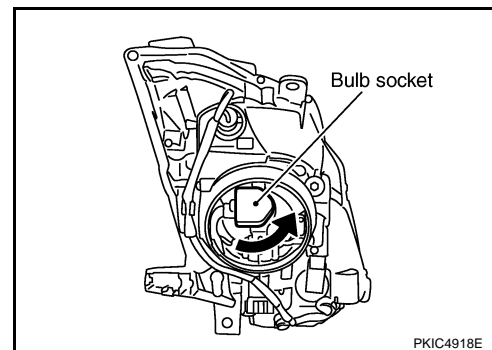
HEADLAMP HIGH/LOW BEAM

1. Turn lighting switch OFF.
2. Open the driver and front passenger window, and then disconnect the battery cable from the negative terminal or remove power fuse.

CAUTION:

After the battery cables are disconnected, never open/close the driver and/or front passenger door with the window in the full up position. The automatic window adjusting function will not work and the side roof panel may be damaged.

3. Remove headlamp. Refer to [LT-58, "Removal and Installation"](#).
4. Turn plastic cap counterclockwise and unlock it.
5. Turn bulb socket counterclockwise and unlock it.



HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

6. Unlock retaining spring and remove bulb from headlamp.
7. Installation is the reverse order of removal.

NOTE:

After installation, perform aiming adjustment. Refer to [LT-56, "Aiming Adjustment"](#).

Headlamp high/low beam (Xenon) : 12V - 35W (D2R)

PARKING LAMP

1. Turn lighting switch OFF.
2. Remove fender protector (front). Refer to [EI-17](#).
3. Turn bulb socket counterclockwise and unlock it.
4. Remove bulb from its socket.
5. Installation is the reverse order of removal.

Parking lamp : 12V - 5W

FRONT TURN SIGNAL LAMP

1. Turn lighting switch OFF.
2. Remove fender protector (front). Refer to [EI-17](#).
3. Turn bulb socket counterclockwise and unlock it.
4. Remove bulb from its socket.
5. Installation is the reverse order of removal.

Front turn signal lamp/— : 12V - 28/8W (amber)

FRONT SIDE MARKER LAMP

1. Remove headlamp. Refer to [LT-58, "Removal and Installation"](#).
2. Replacement integral with headlamp housing assembly.
3. Installation is reverse order of removal.

Front side marker lamp : LED

CAUTION:

After installing bulb, be sure to install plastic cap and bulb socket securely to insure watertightness.

Removal and Installation

INFOID:000000004655871

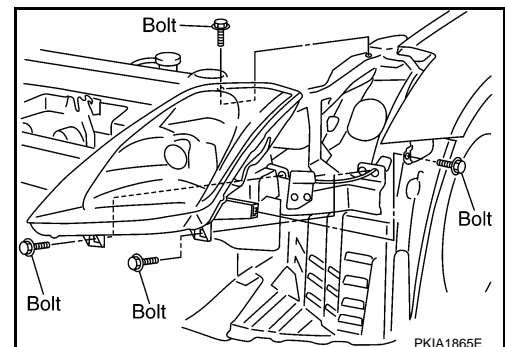
REMOVAL

1. Open the driver and front passenger window, and then disconnect the battery cable from the negative terminal or remove power fuse.

CAUTION:

After the battery cables are disconnected, never open/close the driver and/or front passenger door with the window in the full up position. The automatic window adjusting function will not work and the side roof panel may be damaged.

2. Remove front bumper fascia. Refer to [EI-11](#).
3. Remove headlamp mounting bolts.
4. Pull head lamp toward vehicle front, disconnect connector, and remove headlamp.



HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

INSTALLATION

Installation is the reverse order of removal.

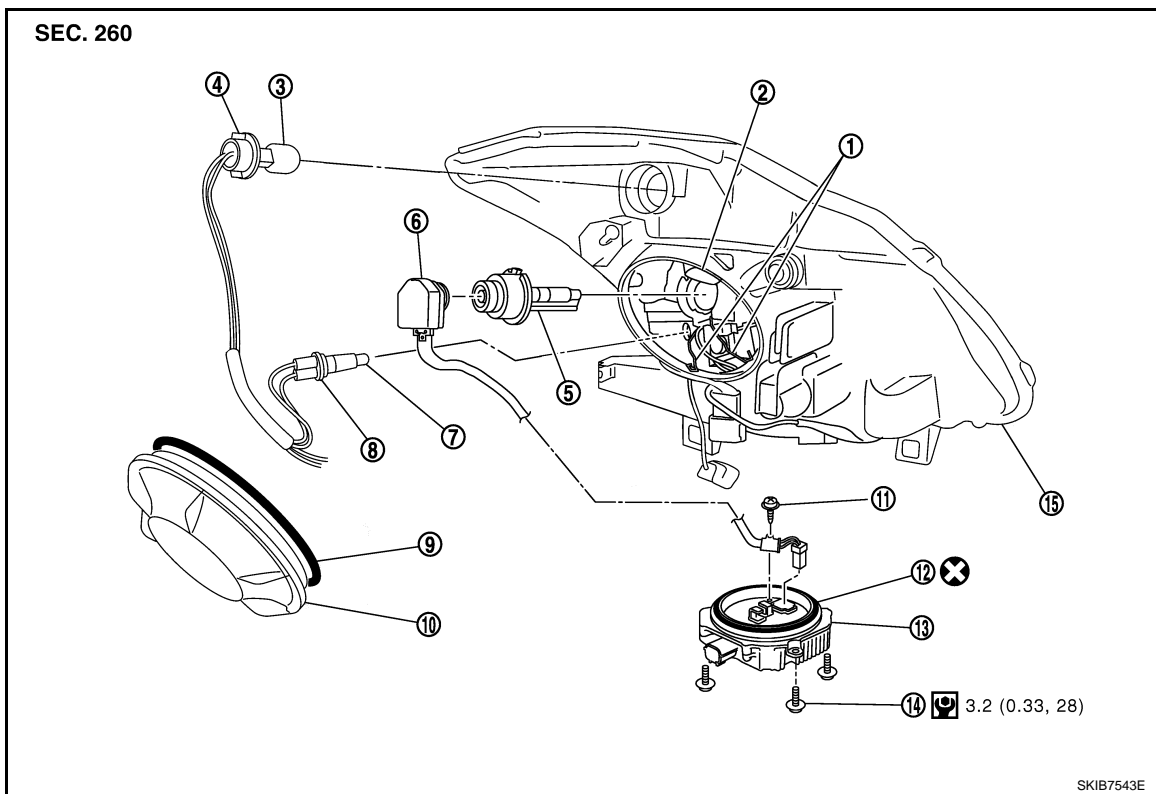
Headlamp mounting bolt  : 6.1N·m (0.62 kg-m, 54 in lb)

NOTE:


After installation, perform aiming adjustment. Refer to [LT-56. "Aiming Adjustment"](#).


Disassembly and Assembly

INFOID:000000004655872



- | | | |
|---------------------------------------|-------------------------------------|--------------------------------|
| 1. Retaining spring | 2. Xenon bulb socket ground | 3. Front turn signal lamp bulb |
| 4. Front turn signal lamp bulb socket | 5. Xenon bulb | 6. Xenon bulb socket |
| 7. Parking lamp bulb | 8. Parking lamp bulb socket | 9. Seal packing |
| 10. Plastic cap | 11. Ground screw | 12. Seal packing |
| 13. HID control unit | 14. HID control unit mounting screw | 15. Headlamp housing assembly |

 :N·m (kg-m, in-lb)

 : Always replace after every disassembly.

DISASSEMBLY

1. Turn plastic cap counterclockwise, and unlock it.
2. Turn xenon bulb socket counterclockwise, and unlock it.
3. Unlock retaining spring, and remove xenon bulb.
4. Disconnect xenon bulb socket ground.
5. Remove HID control unit mounting screws.
6. Remove ground screw from HID control unit.
7. Disconnect connectors from HID control unit.
8. Pull out xenon bulb socket from head lamp housing assembly.
9. Turn parking lamp bulb socket counterclockwise and unlock it.
10. Remove parking lamp bulb from its socket.

HEADLAMP (FOR CANADA) - DAYTIME LIGHT SYSTEM -

< SERVICE INFORMATION >

11. Turn front turn signal lamp bulb socket counterclockwise and unlock it.
12. Remove front turn signal lamp bulb from its socket.

ASSEMBLY

Assembly is the reverse order of disassembly.

HID control unit mounting screw  : 3.2 N·m (0.33 kg-m, 28 in-lb)

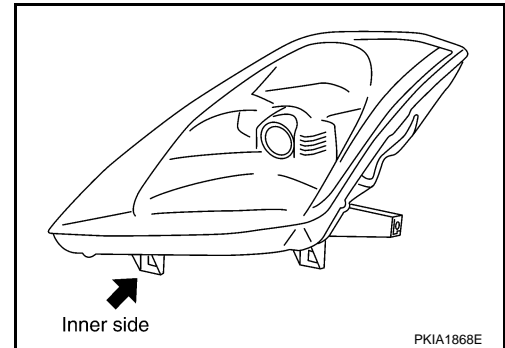
CAUTION:

- When HID control unit is removed, reinstall it securely and avoid any looseness.
- After installing bulb, be sure to install plastic cap and bulb socket securely to insure watertightness

Serving to Replace Headlamps When Damaged

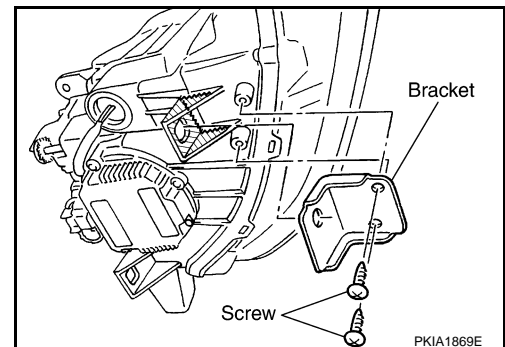
INFOID:000000004655873

If only installation part as shown in the figure is damaged, and headlamp housing itself is not damaged, repair can be completed easily by installing correction brackets.



INSTALLATION OF HEADLAMP BRACKET

1. Remove headlamps. Refer to [LT-58. "Removal and Installation"](#).
2. Cut damaged section of installation part, then shape with sandpaper.
3. Attach each correction bracket to headlamp housing boss with 2 screws.



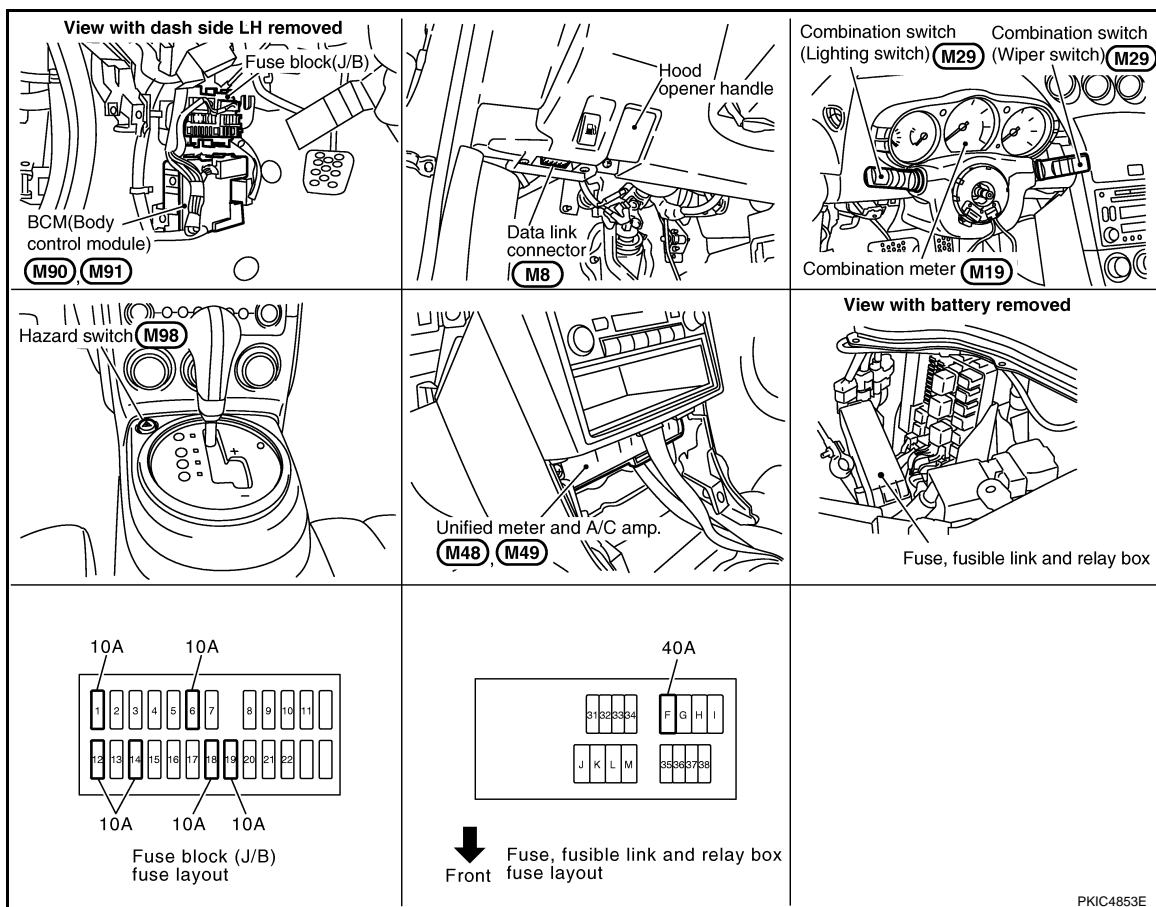
TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

TURN SIGNAL AND HAZARD WARNING LAMPS

Component Parts and Harness Connector Location

INFOID:000000004655874



System Description

INFOID:000000004655875

TURN SIGNAL OPERATION

When the ignition switch is in ON or START position, power is supplied

- through 10A fuse [No.1, located in fuse block (J/B)]
- to BCM (body control module) terminal 38,
- through 10A fuse [No.12, located in fuse block (J/B)]
- to unified meter and A/C amp. terminal 22,
- through 10A fuse [No.14, located in fuse block (J/B)]
- to combination meter terminal 23.

Ground is supplied

- to BCM terminal 52
- to unified meter and A/C amp. terminals 29 and 30, and
- to combination meter terminals 10, 11 and 12
- through grounds M30 and M66.

LH Turn Signal Lamp

When the turn signal switch is moved to the left position, the BCM receives left turn signal by combination switch reading function (Refer to [BCS-4, "System Description"](#)). Power is supplied

- through BCM terminal 45
- to front combination lamp LH terminal 2
- to rear combination lamp LH terminal 2.

Ground is supplied

- to front combination lamp LH terminal 8
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to rear combination lamp LH terminal 4

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

- through grounds B5, B6, D105 and T14 (Coupe models)
- through grounds B5, B6 and T14 (Roadster models).

The BCM also supplies ground to unified meter and A/C amp. terminals 1 and 11 through the CAN communication lines. This input signal is processed by the unified meter control unit in the combination meter through unified meter and A/C amp., which in turn supplies ground to left turn signal indicator lamp.

With the power and ground supplied, BCM controls the flashing of LH turn signal lamps.

RH Turn Signal Lamp

When the turn signal switch is moved to the right position, the BCM receives right turn signal by combination switch reading function (Refer to [BCS-4, "System Description"](#)). Power is supplied

- through BCM terminal 46
- to front combination lamp RH terminal 2
- to rear combination lamp RH terminal 2.

Ground is supplied

- to front combination lamp RH terminal 8
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to rear combination lamp RH terminal 4
- through grounds B5, B6, D105 and T14 (Coupe models)
- through grounds B5, B6 and T14 (Roadster models).

The BCM also supplies ground to unified meter and A/C amp. terminals 1 and 11 through CAN communication lines. This input signal is processed by unified meter control unit in combination meter through unified meter and A/C amp., which in turn supplies ground to the right turn signal indicator lamp.

With power and ground supplied, BCM controls the flashing of RH turn signal lamps.

HAZARD WARNING LAMP OPERATION

Power is supplied at all times

- through 40A fusible link (letter F, located in fuse, fusible link and relay box)
- to BCM terminal 55,
- through 10A fuse [No. 18, located in fuse block (J/B)]
- to BCM terminal 42,
- through 10A fuse [No. 19, located in fuse block (J/B)]
- to combination meter terminal 24, and
- to unified meter and A/C amp. terminal 21.

Ground is supplied

- to BCM terminals 52
- to unified meter and A/C amp. terminals 29 and 30, and
- to combination meter terminals 10, 11 and 12
- through grounds M30 and M66.

When the hazard switch is depressed, power is supplied

- through BCM terminal 29
- to hazard lamp switch terminal 2.

Ground is supplied

- through hazard lamp switch terminal 1
- to grounds M30 and M66.

The BCM then supplies power

- through BCM terminal 45
- to front combination lamp LH terminal 2
- to rear combination lamp LH terminal 2,
- through BCM terminal 46
- to front combination lamp RH terminal 2
- to rear combination lamp RH terminal 2.

Ground is supplied

- to front combination lamp LH terminal 8, and
- to front combination lamp RH terminal 8
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to rear combination lamp LH terminal 4, and
- to rear combination lamp RH terminal 4
- through grounds B5, B6, D105 and T14 (Coupe models)
- through grounds B5, B6 and T14 (Roadster models).

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

The BCM also supplies input to unified meter and A/C amp. terminals 1 and 11 through the CAN communication lines. This input signal is processed by the unified meter control unit in the combination meter through the unified meter and A/C amp., which in turn supplies ground to the left and right turn signal indicator lamps. With the power and ground supplied, BCM controls the flashing of hazard warning lamps.

REMOTE KEYLESS ENTRY SYSTEM OPERATION

Refer to [BL-52](#).

COMBINATION SWITCH READING FUNCTION

Refer to [BCS-4, "System Description"](#).

CAN Communication System Description

INFOID:000000004655876

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

INFOID:000000004655877

Refer to [LAN-41, "CAN System Specification Chart"](#).

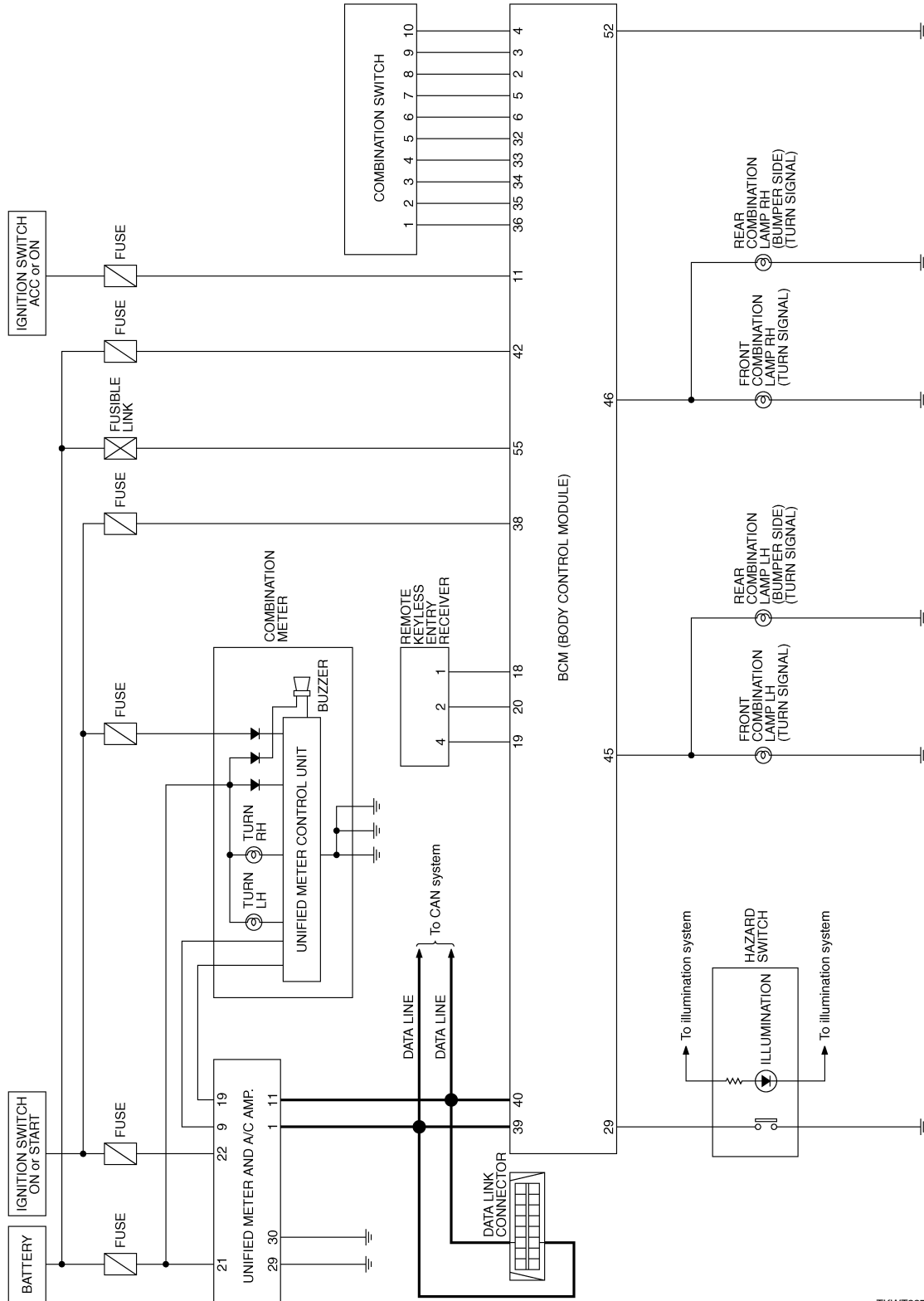
A
B
C
D
E
F
G
H
I
J
LT
L
M
N
O
P

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

Schematic

INFOID:000000004655878



TKWT2278E

TURN SIGNAL AND HAZARD WARNING LAMPS

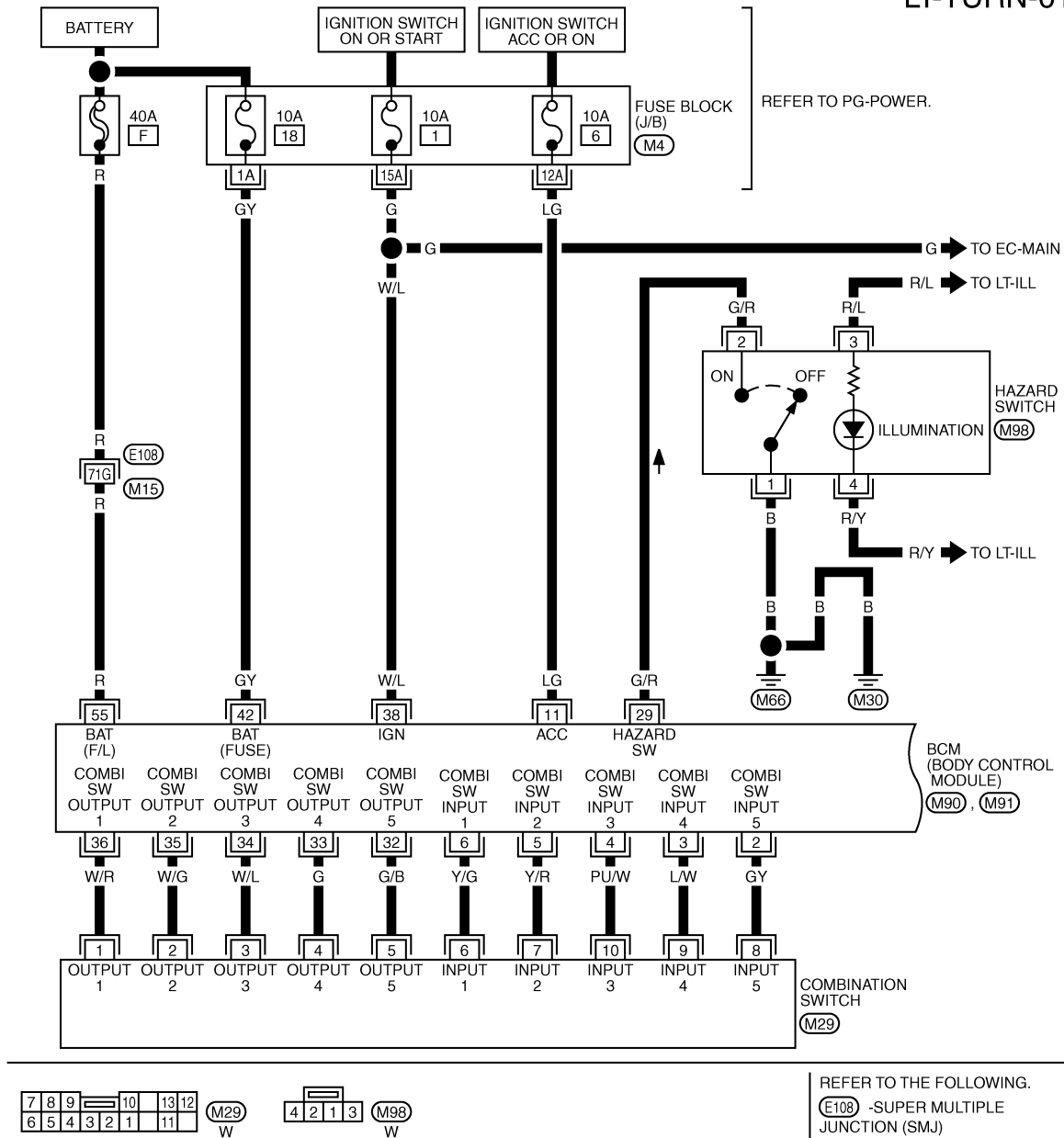
< SERVICE INFORMATION >

Wiring Diagram - TURN -

INFOID:000000004655879

COUPE MODELS

LT-TURN-01



TKWT5751E

< SERVICE INFORMATION >

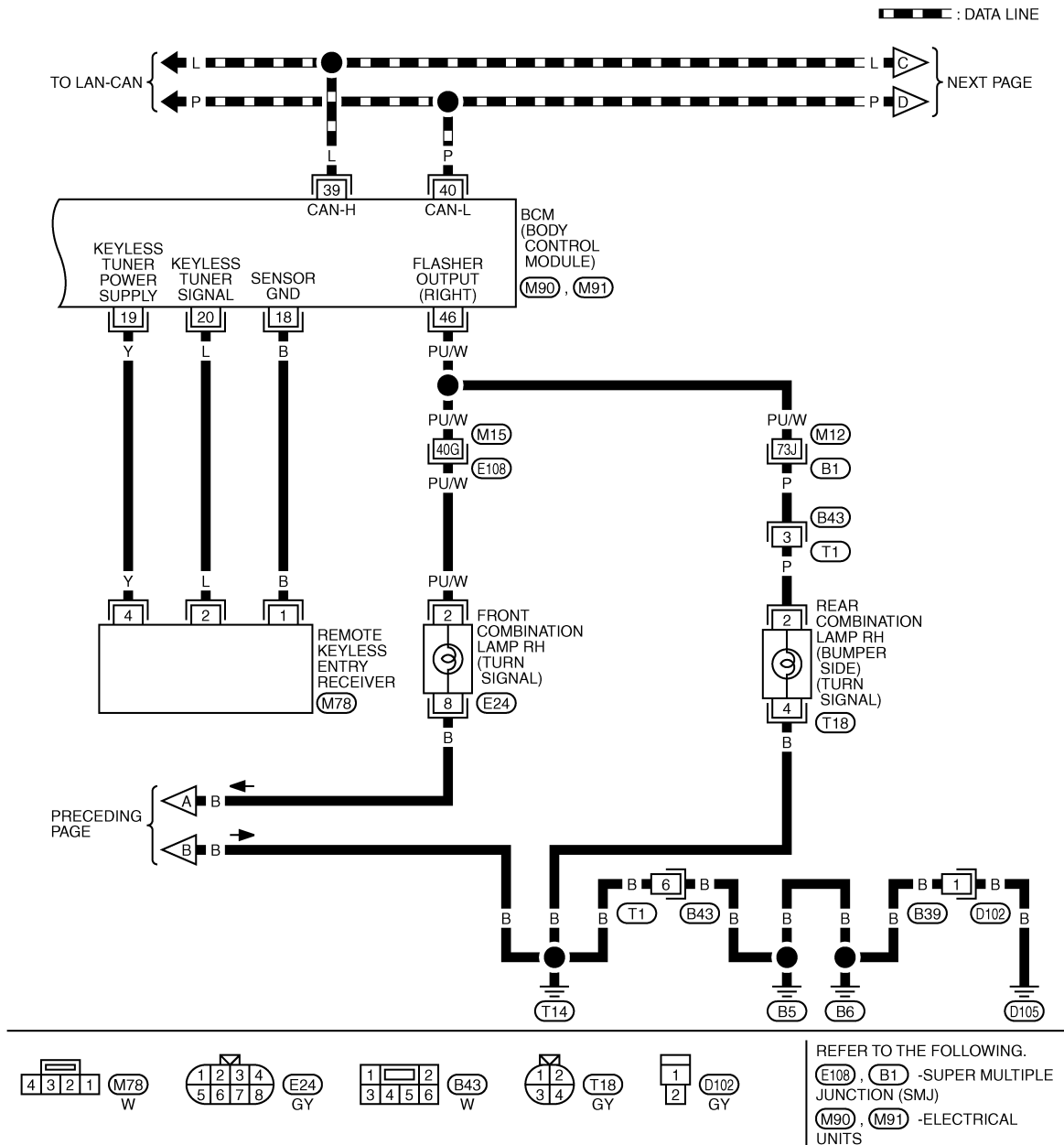
OT : WITHOUT VDC SYSTEM,
NAVIGATION SYSTEM AND TELEPHONE



TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

LT-TURN-03



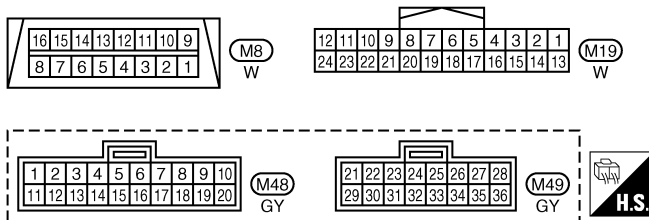
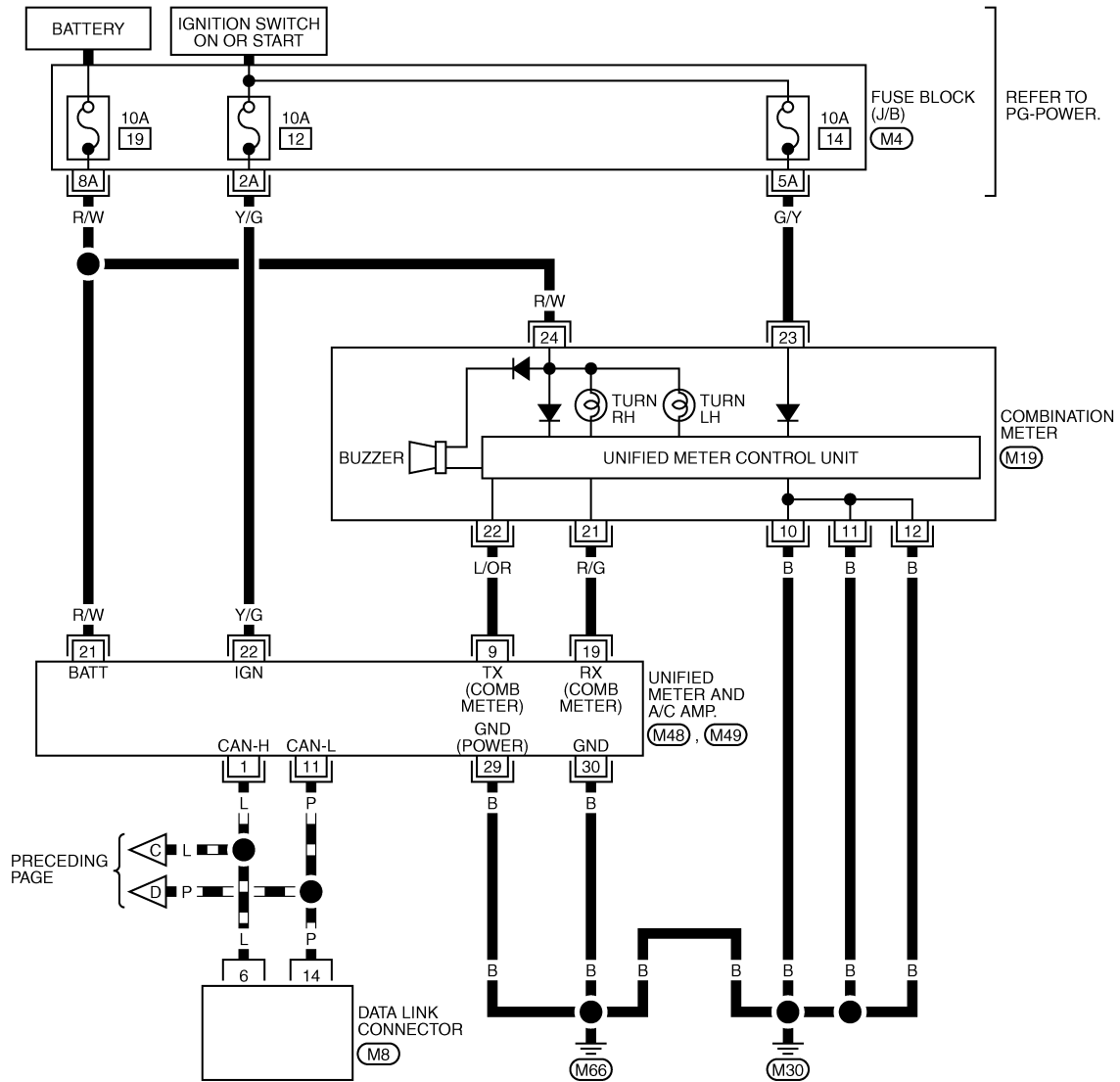
TKWT4032E

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

LT-TURN-04

— : DATA LINE



REFER TO THE FOLLOWING.
(M4) - FUSE BLOCK-JUNCTION BOX (J/B)

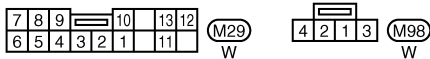
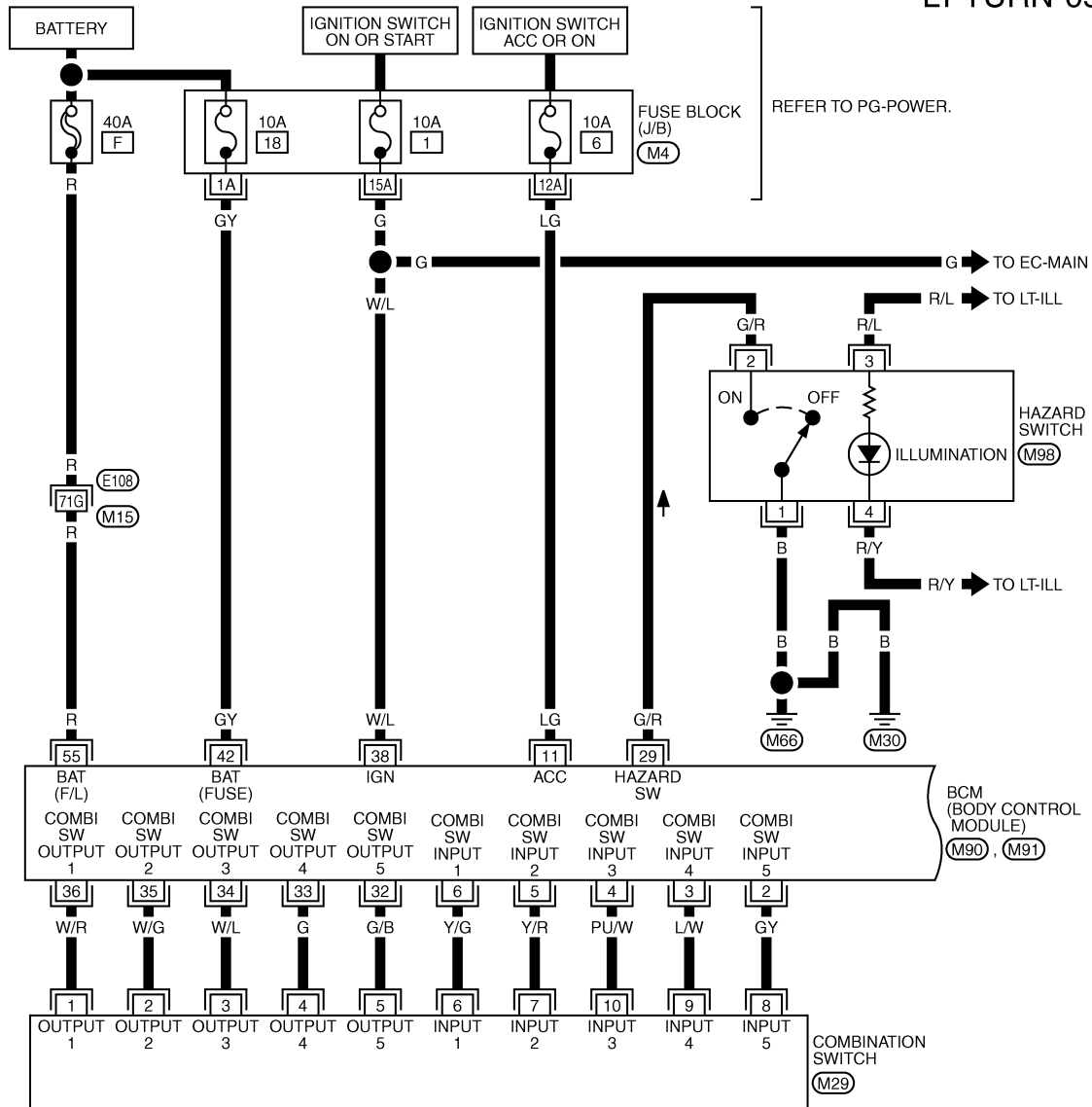
TKWT2281E

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

ROADSTER MODELS

LT-TURN-05



REFER TO THE FOLLOWING.

- (E108) -SUPER MULTIPLE JUNCTION (SMJ)
- (M4) -FUSE BLOCK-JUNCTION BOX (J/B)
- (M90), (M91) -ELECTRICAL UNITS

TKWT5753E

< SERVICE INFORMATION >

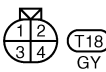
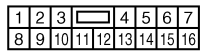
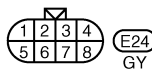
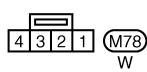
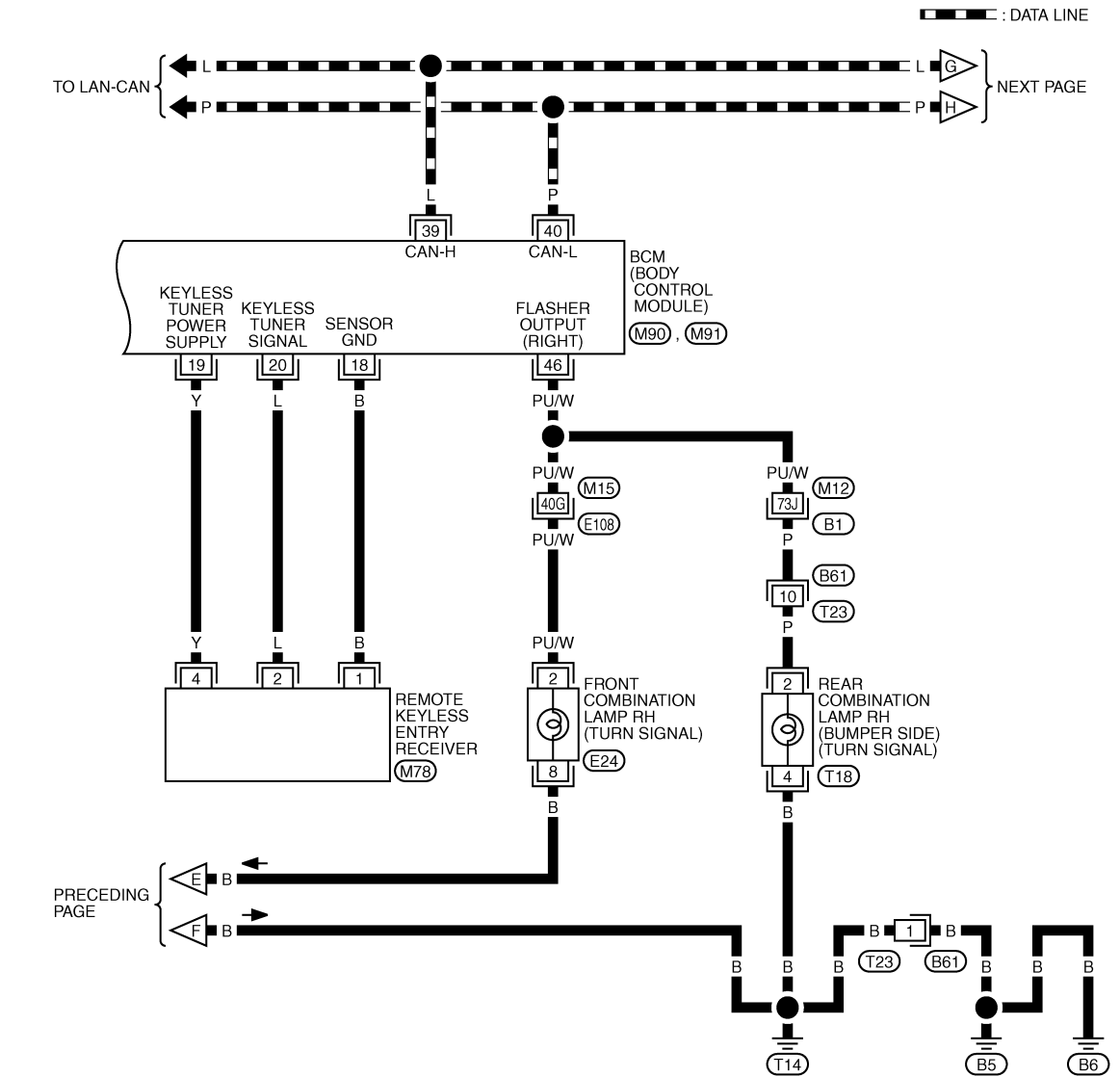
VN : WITH VDC SYSTEM OR NAVIGATION SYSTEM
WO : WITHOUT VDC SYSTEM AND NAVIGATION SYSTEM



TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

LT-TURN-07

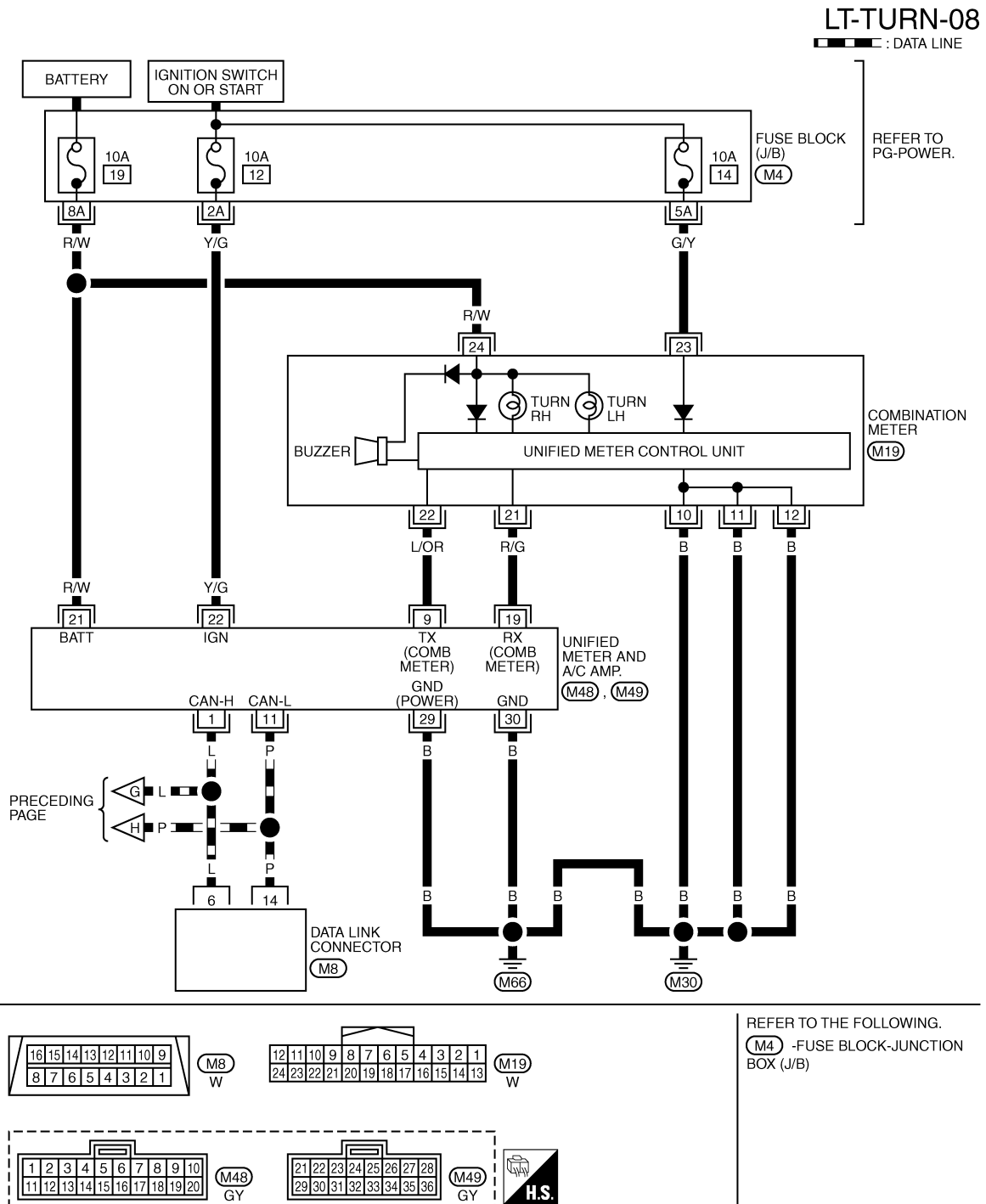


REFER TO THE FOLLOWING.
 (E108) (B1) -SUPER MULTIPLE JUNCTION (SMJ)
 (M90) (M91) -ELECTRICAL UNITS

TKWT4035E

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >



TKWT2284E

INFOID:000000004655880

Terminal and Reference Value for BCM

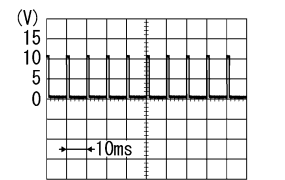
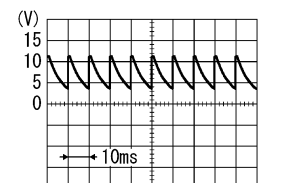
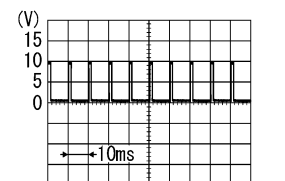
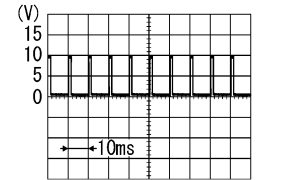
CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF not to be fluctuated by overloaded.
- Turn wiper dial position to 4 except when checking waveform or voltage of wiper dial position. Wiper dial position can be confirmed on CONSULT-III. Refer to [LT-85, "CONSULT-III Function \(BCM\)"](#).

TURN SIGNAL AND HAZARD WARNING LAMPS

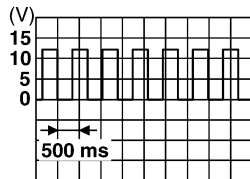
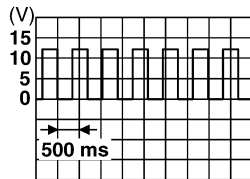
< SERVICE INFORMATION >

Ter- mi- nal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
2	GY	Combination switch input 5	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	OFF
				Turn signal switch to right	Approx. 0 V
3	L/W	Combination switch input 4	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	Turn signal switch to left
				Turn signal switch to right	Approx. 1.0 V
11	LG	Ignition switch (ACC)	ACC	—	Battery voltage
29	G/R	Hazard signal	OFF	Hazard switch	OFF
					ON
36	W/R	Combination switch output 1	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	OFF
				Any of the conditions below • Turn signal switch to right • Turn signal switch to left	Approx. 1.2 V
38	W/L	Ignition switch (ON)	ON	—	Battery voltage
39	L	CAN – H	—	—	—
40	P	CAN – L	—	—	—
42	GY	Battery power supply	OFF	—	Battery voltage



TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

Ter- mi- nal No.	Wire color	Signal name	Measuring condition			Reference value
			Ignition switch	Operation or condition		
45	G/W	Turn signal (left)	ON	Combination switch	Turn left ON	 SKIA3009J
46	PU/W	Turn signal (right)	ON	Combination switch	Turn right ON	 SKIA3009J
52	B	Ground	ON	—		Approx. 0V
55	R	Battery power supply	OFF	—		Battery voltage

How to Proceed with Trouble Diagnosis

INFOID:00000000465581

1. Confirm the symptom or customer complaint.
2. Understand operation description and function description. Refer to [LT-61, "System Description"](#).
3. Perform preliminary check. Refer to [LT-74, "Preliminary Check"](#).
4. Check symptom and repair or replace the cause of malfunction.
5. Do turn signal and hazard warning lamps operate normally? If YES, GO TO 6. If NO, GO TO 4.
6. INSPECTION END

Preliminary Check

INFOID:00000000465582

CHECK POWER SUPPLY AND GROUND CIRCUIT

1.CHECK FUSES AND FUSIBLE LINK

Check for blown fuses and fusible link.

UNIT	POWER SOURCE	Fuse and fusible link No.
BCM	Battery	F
		18
	Ignition switch ON or START position	1
	Ignition switch ACC or ON position	6

Refer to [LT-65, "Wiring Diagram - TURN -"](#).

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-4](#).

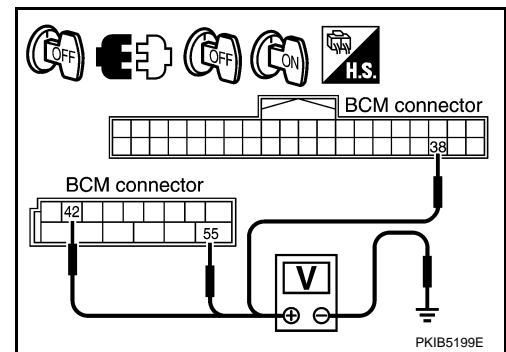
2.CHECK POWER SUPPLY CIRCUIT

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

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

Terminals		Ignition switch position	
(+)		(-)	
BCM connector	Terminal	OFF	ON
M90	38	Approx. 0 V	Battery voltage
M91	42	Battery voltage	Battery voltage
	55	Battery voltage	Battery voltage



OK or NG

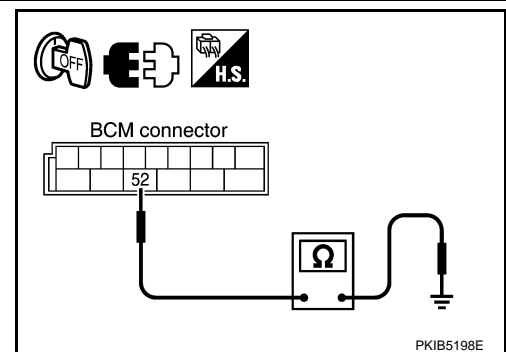
OK >> GO TO 3.

NG >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector terminal and ground.

BCM connector	Terminal	Ground	Continuity
M91	52		Yes



OK or NG

OK >> INSPECTION END

NG >> Repair harness or connector.

CONSULT-III Function (BCM)

INFOID:000000004655883

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

BCM diagnosis part	Diagnosis mode	Description
FLASHER	DATA MONITOR	Displays BCM input data in real time.
	ACTIVE TEST	Operation of electrical loads can be checked by sending driving signal to them.

DATA MONITOR

Display Item List

Monitor item	Contents
IGN ON SW "ON/OFF"	Displays "IGN position (ON)/OFF, ACC position (OFF)" judged from ignition switch signal.
HAZARD SW "ON/OFF"	Displays "Hazard ON (ON)/Hazard OFF (OFF)" status, determined from hazard switch signal.
TURN SIGNAL R "ON/OFF"	Displays "Turn right (ON)/Other (OFF)" status, determined from lighting switch signal.
TURN SIGNAL L "ON/OFF"	Displays "Turn left (ON)/Other (OFF)" status, determined from lighting switch signal.
BRAKE SW ^{NOTE} "OFF"	—

NOTE:

This item is displayed, but cannot be monitored.

ACTIVE TEST

Display Item List

Test item	Description
FLASHER	With a certain operation (OFF, RH, LH), turn signal lamp can be operated.

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

Turn Signal Lamp Does Not Operate

INFOID:000000004655884

1.CHECK BULB

Check bulb standard of each turn signal lamp is correct.

OK or NG

- OK >> GO TO 2.
- NG >> Replace turn signal lamp bulb.

2.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "TURN SIGNAL R" and "TURN SIGNAL L" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is : TURN SIGNAL R ON
TURN RH position

When lighting switch is : TURN SIGNAL L ON
TURN LH position

⊗CHECK COMBINATION SWITCH

Refer to [LT-86. "Combination Switch Inspection"](#).

OK or NG

- OK >> GO TO 3.
- NG >> Check combination switch (lighting switch). Refer to [LT-86. "Combination Switch Inspection"](#).

3.ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "FLASHER" of BCM active test item.
2. With operating the test item, check the turn signal lamp operation.

Turn signal lamp should operate.

⊗GO TO 4

OK or NG

- OK >> Replace BCM. Refer to [BCS-15. "Removal and Installation of BCM"](#).
- NG >> GO TO 4.

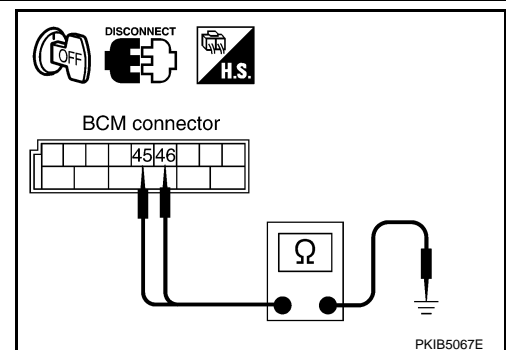
4.CHECK SHORT CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and all turn signal lamp connectors.
3. Check continuity (short circuit) between BCM harness connector and ground.

BCM connector		Terminal	Ground	Continuity
RH	M91	46		No
LH		45		

OK or NG

- OK >> Replace BCM if turn signal lamps does not work after setting the connector again. Refer to [BCS-15. "Removal and Installation of BCM"](#).
- NG >> Repair harness or connector.



Hazard Warning Lamp Does Not Operate But Turn Signal Lamp Operates

INFOID:000000004655885

1.CHECK BULB

Make sure bulb standard of each turn signal lamp is correct.

OK or NG

TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

- OK >> GO TO 2.
NG >> Replace bulb.

2.CHECK HAZARD SWITCH INPUT SIGNAL

With CONSULT-III

- Select "HAZARD SW" of BCM data monitor item.
- With operating the hazard switch, check the monitor status.

When hazard switch is ON : HAZARD SW ON position

Without CONSULT-III

Check voltage between hazard switch harness connector and ground.

Terminal		Condition	Voltage (Approx.)
(+)	(-)		
Hazard switch connector	Terminal		
M98	2	Hazard switch is ON	0V
		Hazard switch is OFF	5V

OK or NG

- OK >> Replace BCM. Refer to [BCS-15. "Removal and Installation of BCM"](#).
NG >> GO TO 3.

3.CHECK HAZARD SWITCH CIRCUIT

- Turn ignition switch OFF.
- Disconnect BCM connector and hazard switch connector.
- Check continuity BCM harness connector and hazard switch harness connector.

Terminals				Continuity
BCM		Hazard switch		
Connector	Terminal	Connector	Terminal	
M90	29	M98	2	Yes

OK or NG

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

4.CHECK GROUND

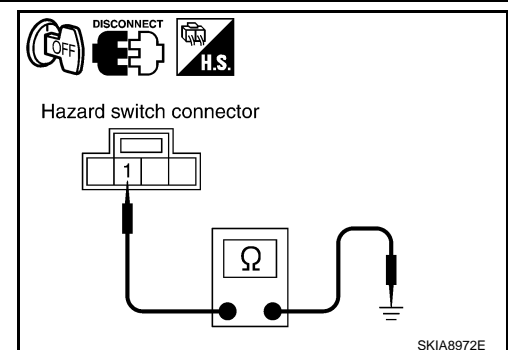
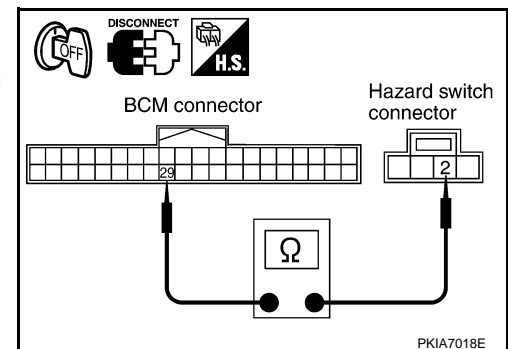
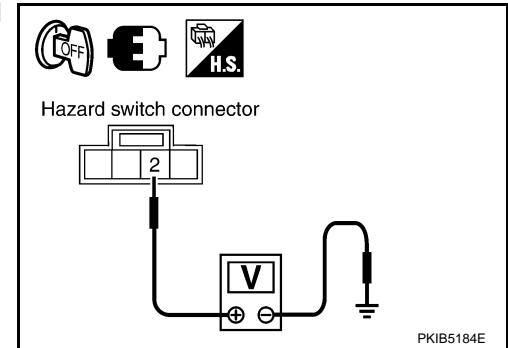
Check continuity hazard switch harness connector and ground.

Hazard switch connector	Terminal	Ground	Continuity
M98	1		Yes

OK or NG

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

5.CHECK HAZARD SWITCH



TURN SIGNAL AND HAZARD WARNING LAMPS

< SERVICE INFORMATION >

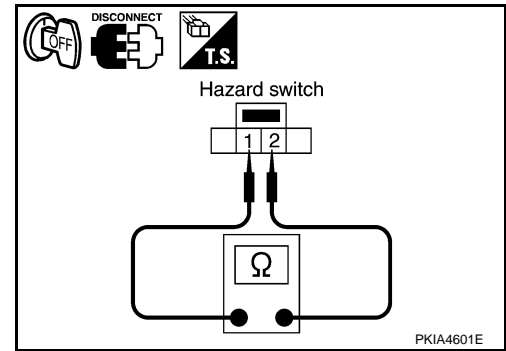
Check continuity hazard switch.

Terminal		Condition	Continuity
Hazard switch			
1	2	Hazard switch is ON.	Yes
		Hazard switch is OFF.	No

OK or NG

OK >> Replace BCM if turn signal lamps does not work after setting the connector again. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> Replace hazard switch.



Turn Signal Indicator Lamp Does Not Operate

INFOID:0000000004655886

1.CHECK BULB

Check bulb of turn signal indicator lamp in combination meter.

OK or NG

OK >> Replace combination meter.

NG >> Replace indicator bulb.

Bulb Replacement (Front Turn Signal Lamp)

INFOID:0000000004655887

Refer to [LT-27, "Bulb Replacement"](#).

Bulb Replacement (Rear Turn Signal Lamp)

INFOID:0000000004655888

Refer to [LT-117, "Bulb Replacement"](#).

Removal and Installation of Front Turn Signal Lamp

INFOID:0000000004655889

Refer to [LT-28, "Removal and Installation"](#).

Removal and Installation of Rear Turn Signal Lamp

INFOID:0000000004655890

Refer to [LT-117, "Removal and Installation"](#).

LIGHTING AND TURN SIGNAL SWITCH

< SERVICE INFORMATION >

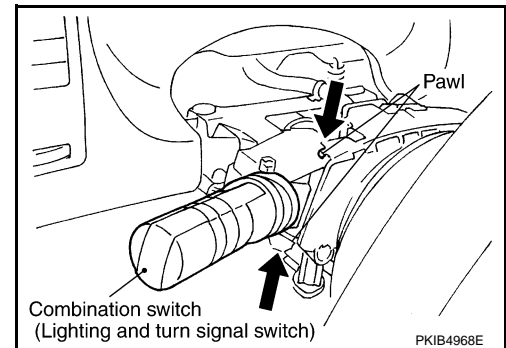
LIGHTING AND TURN SIGNAL SWITCH

Removal and Installation

INFOID:000000004655891

REMOVAL

1. Remove steering column lower cover. Refer to [IP-12](#).
2. Remove column upper cover and combination meter assembly. Refer to [IP-12](#).
3. While pressing pawls in direction as shown in the figure, pull lighting and turn signal switch toward driver door and disconnect from the base.



INSTALLATION

Installation is the reverse order of removal.

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B
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HAZARD SWITCH

< SERVICE INFORMATION >

HAZARD SWITCH

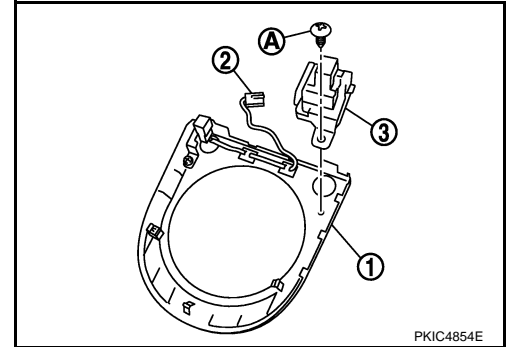
Removal and Installation

INFOID:000000004655892

HAZARD SWITCH (A/T MODELS)

Removal

1. Remove console finisher (1). Refer to [IP-12](#).
2. Disconnect hazard switch connector (2).
3. Remove screw (A), and remove hazard switch (3).



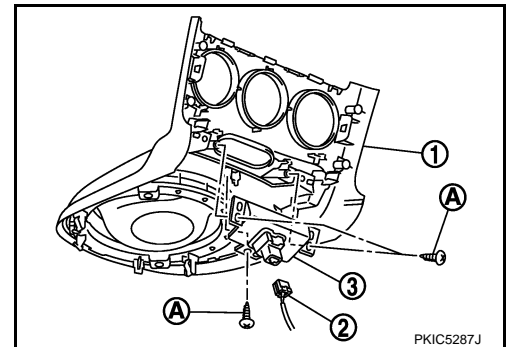
Installation

Installation is the reverse order of removal.

HAZARD SWITCH (M/T MODELS)

Removal

1. Removal console boot (1). Refer to [IP-12](#).
2. Disconnect hazard switch connector (2).
3. Remove screw (A), and remove hazard switch (3).



Installation

Installation is the reverse order of removal.

COMBINATION SWITCH

< SERVICE INFORMATION >

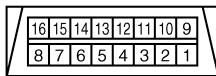
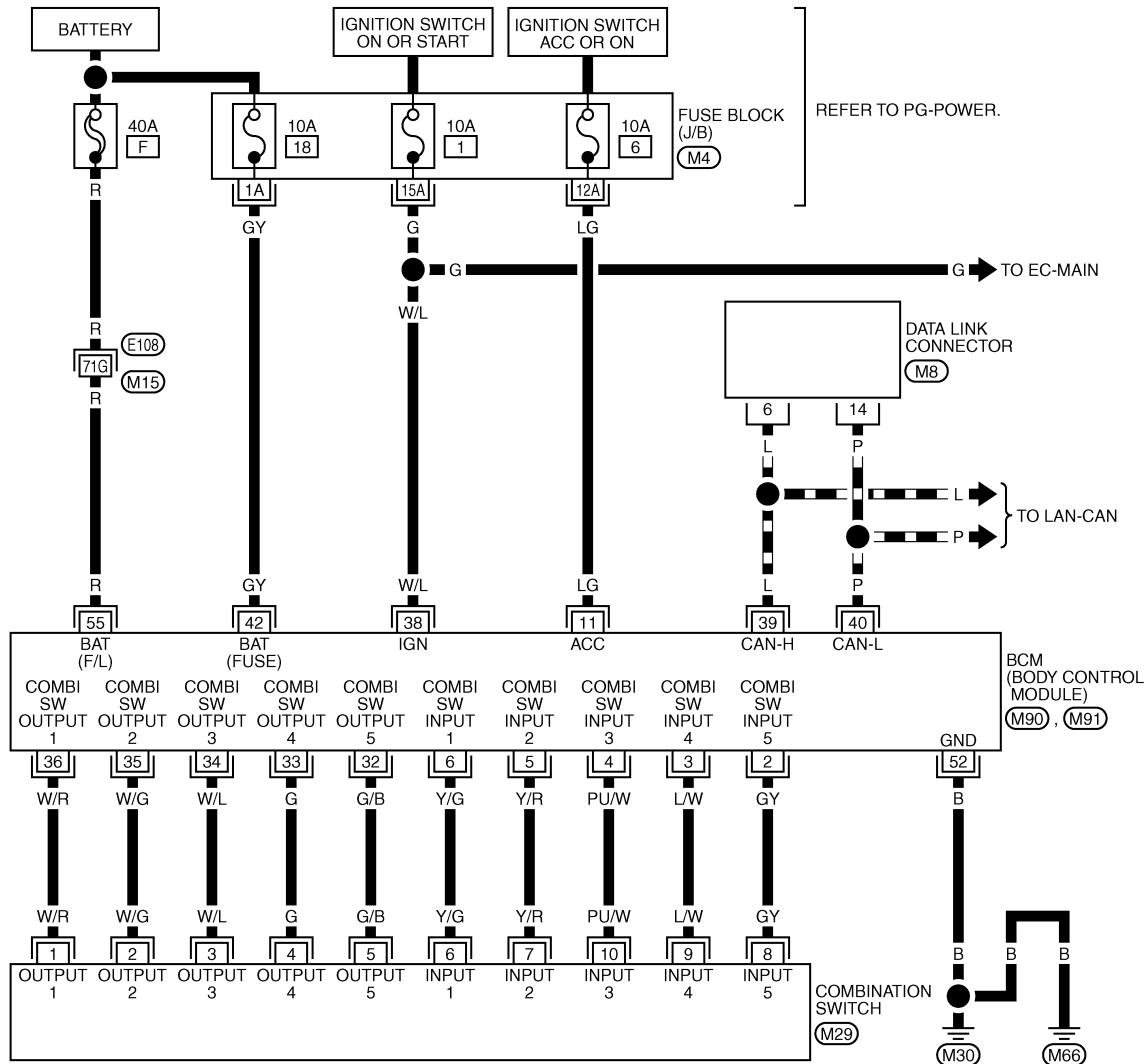
COMBINATION SWITCH

Wiring Diagram -COMBSW-

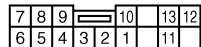
INFOID:000000004655893

LT-COMBSW-01

DATA LINE



M8
W



M29
W

REFER TO THE FOLLOWING.

- (E108) -SUPER MULTIPLE JUNCTION (SMJ)
- (M4) -FUSE BLOCK-JUNCTION BOX (J/B)
- (M90), (M91) -ELECTRICAL UNITS

TKWT5754E

Combination Switch Reading Function

Refer to [BCS-4, "System Description"](#).

INFOID:000000004655894

COMBINATION SWITCH

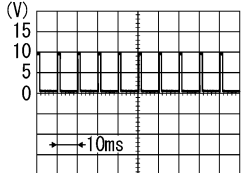
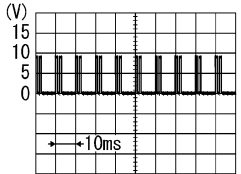
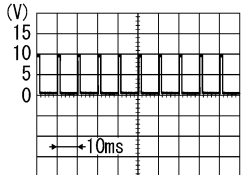
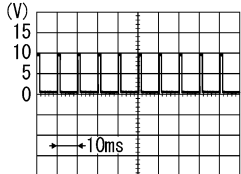
< SERVICE INFORMATION >

Terminal and Reference Value for BCM

INFOID:000000004655895

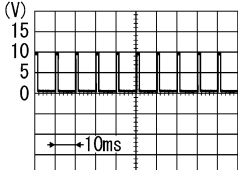
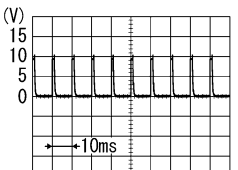
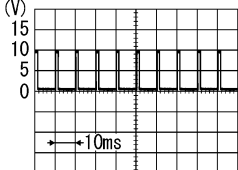
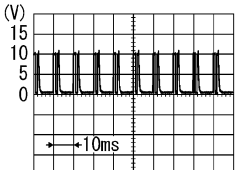
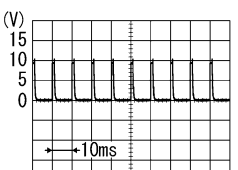
CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF not to be fluctuated by overloaded.
- Turn wiper dial position to 4 except when checking waveform or voltage of wiper dial position. Wiper dial position can be confirmed on CONSULT-III. Refer to [LT-85, "CONSULT-III Function \(BCM\)"](#).

Ter- minal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
2	GY	Combination switch input 5	ON	OFF	Approx. 0 V
				Any of the conditions below <ul style="list-style-type: none"> • Lighting switch 1ST • Lighting switch HIGH beam (Operates only HIGH beam switch) • Turn signal switch to right 	 <p>PKIB4959J</p>
				Lighting switch 2ND	 <p>PKIB4953J</p>
3	L/W	Combination switch input 4	ON	OFF	Approx. 0 V
				Any of the conditions below <ul style="list-style-type: none"> • Lighting switch 2ND • Lighting switch PASSING (Operates only PASSING switch) • Turn signal switch to left 	 <p>PKIB4959J</p>
4	PU/W	Combination switch input 3	ON	OFF	Approx. 0 V
				Any of the conditions below <ul style="list-style-type: none"> • Front wiper switch MIST • Front wiper switch INT • Front wiper switch LO 	 <p>PKIB4959J</p>

COMBINATION SWITCH

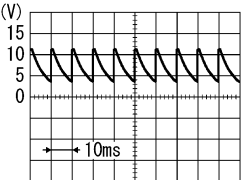
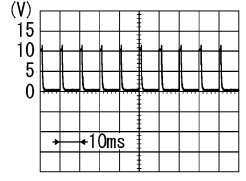
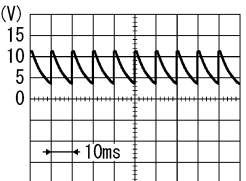
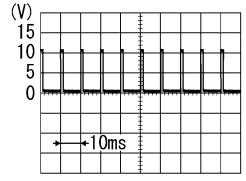
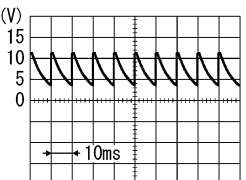
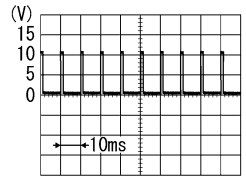
< SERVICE INFORMATION >

Ter- minal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
5	Y/R	Combination switch input 2	ON	OFF (Wiper intermittent dial position 4)	Approx. 0 V
				Any of the conditions below <ul style="list-style-type: none"> • Front washer switch • Rear washer switch • Wiper intermittent dial position 1 • Wiper intermittent dial position 5 • Wiper intermittent dial position 6 	 <p>PKIB4959J</p>
				Rear wiper switch ON (Wiper intermittent dial position 4)	 <p>PKIB4955J</p>
6	Y/G	Combination switch input 1	ON	OFF (Wiper intermittent dial position 4)	Approx. 0 V
				Any of the conditions below <ul style="list-style-type: none"> • Front wiper switch HI • Rear wiper switch INT • Wiper intermittent dial position 3 	 <p>PKIB4959J</p>
				Any of the conditions below <ul style="list-style-type: none"> • Wiper intermittent dial position 1 • Wiper intermittent dial position 2 	 <p>PKIB4952J</p>
				Any of the conditions below <ul style="list-style-type: none"> • Wiper intermittent dial position 6 • Wiper intermittent dial position 7 	 <p>PKIB4955J</p>
11	LG	Ignition switch (ACC)	ACC	—	Battery voltage

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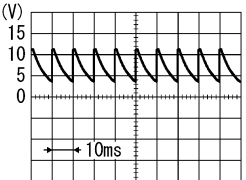
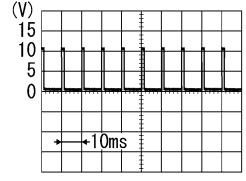
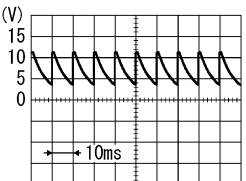
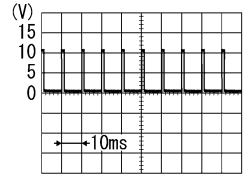
COMBINATION SWITCH

< SERVICE INFORMATION >

Ter- minal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
32	G/B	Combination switch output 5	ON	Lighting, turn, wiper switch	<p>OFF (Wiper intermittent dial position 4)</p>  <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below	<p>Any of the conditions below</p> <ul style="list-style-type: none"> • Wiper intermittent dial position 1 • Wiper intermittent dial position 2 • Wiper intermittent dial position 6 • Wiper intermittent dial position 7  <p>PKIB4956J</p> <p>Approx. 1.0 V</p>
33	G	Combination switch output 4	ON	Lighting, turn, wiper switch	<p>OFF (Wiper intermittent dial position 4)</p>  <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below	<p>Any of the conditions below</p> <ul style="list-style-type: none"> • Lighting switch 1ST (The same result with lighting switch 2ND) • Rear wiper switch INT • Wiper intermittent dial position 1 • Wiper intermittent dial position 5 • Wiper intermittent dial position 6  <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
34	W/L	Combination switch output 3	ON	Lighting, turn, wiper switch	<p>OFF (Wiper intermittent dial position 4)</p>  <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below	<p>Any of the conditions below</p> <ul style="list-style-type: none"> • Lighting switch 2ND • Lighting switch HI beam (Operates only HI beam switch) • Rear washer switch • Wiper intermittent dial position 1 • Wiper intermittent dial position 2 • Wiper intermittent dial position 3  <p>PKIB4958J</p> <p>Approx. 1.2 V</p>

COMBINATION SWITCH

< SERVICE INFORMATION >

Ter- minal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
35	W/G	Combination switch output 2	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	 <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below <ul style="list-style-type: none"> • Lighting switch 2ND • Lighting switch PASSING (Operates only PASSING switch) • Front wiper switch INT • Front wiper switch HI 	 <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
36	W/R	Combination switch output 1	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	 <p>PKIB4960J</p> <p>Approx. 7.2 V</p>
				Any of the conditions below <ul style="list-style-type: none"> • Turn signal switch to right • Turn signal switch to left • Front wiper switch MIST • Front wiper switch LO • Front washer switch 	 <p>PKIB4958J</p> <p>Approx. 1.2 V</p>
38	W/L	Ignition switch (ON)	ON	—	Battery voltage
39	L	CAN – H	—	—	—
40	P	CAN – L	—	—	—
42	GY	Battery power supply	OFF	—	Battery voltage
52	B	Ground	ON	—	Approx. 0V
55	R	Battery power supply	OFF	—	Battery voltage

CONSULT-III Function (BCM)

INFOID:000000004655896

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

BCM diagnosis part	Diagnosis mode	Description
COMB SW	DATA MONITOR	Displays BCM input data in real time.

DATA MONITOR

Display Item List

COMBINATION SWITCH

< SERVICE INFORMATION >

Monitor item name "OPERATION OR UNIT"	Contents
TURN SIGNAL R "ON/OFF"	Displays "Turn Right (ON)/Other (OFF)" status, determined from lighting switch signal.
TURN SIGNAL L "ON/OFF"	Displays "Turn Left (ON)/Other (OFF)" status, determined from lighting switch signal.
HI BEAM SW "ON/OFF"	Displays status (high beam switch: ON/Others: OFF) of high beam switch judged from lighting switch signal.
HEAD LAMP SW 1 "ON/OFF"	Displays status (headlamp switch 2: ON/Others: OFF) of headlamp switch 1 judged from lighting switch signal.
HEAD LAMP SW 2 "ON/OFF"	Displays status (headlamp switch 2: ON/Others: OFF) of headlamp switch 2 judged from lighting switch signal.
LIGHT SW 1ST "ON/OFF"	Displays status (lighting switch 1ST or 2ND position: ON/Others: OFF) of lighting switch judged from lighting switch signal.
PASSING SW "ON/OFF"	Displays status (flash-to-pass switch: ON/Others: OFF) of flash-to-pass switch judged from lighting switch signal.
FR FOG SW ^{NOTE} "ON/OFF"	—
FR WIPER HI "ON/OFF"	Displays "Front Wiper HI (ON)/Other (OFF)" status, determined from wiper switch signal.
FR WIPER LOW "ON/OFF"	Displays "Front Wiper LOW (ON)/Other (OFF)" status, determined from wiper switch signal.
FR WIPER INT "ON/OFF"	Displays "Front Wiper INT (ON)/Other (OFF)" status, determined from wiper switch signal.
FR WASHER SW "ON/OFF"	Displays "Front Washer Switch (ON)/Other (OFF)" status, determined from wiper switch signal.
INT VOLUME [1 - 7]	Displays intermittent operation knob setting (1 - 7), determined from wiper switch signal.
RR WIPER ON "ON/OFF"	Displays "rear Wiper (ON)/Other (OFF)" status as judged from wiper switch signal.
RR WIPER INT "ON/OFF"	Displays "rear Wiper INT (ON)/Other (OFF)" status as judged from wiper switch signal.
RR WASHER SW "ON/OFF"	Displays "rear Washer Switch (ON)/Other (OFF)" status as judged from wiper switch signal.

NOTE:

This item is displayed, but cannot be monitored.

Combination Switch Inspection

INFOID:000000004655897

1.SYSTEM CHECK

Referring to table below, check which system malfunctioning switch belongs to.

System 1	System 2	System 3	System 4	System 5
—	FR WASHER	FR WIPER LO	TURN LH	TURN RH
FR WIPER HI	—	FR WIPER INT	PASSING	HEAD LAMP 1
INT VOLUME 1	RR WASHER	—	HEAD LAMP 2	HI BEAM
RR WIPER INT	INT VOLUME 3	—	—	LIGHT SW 1ST
INT VOLUME 2	RR WIPER ON	—	—	—

>> Check the system to which malfunctioning switch belongs, and GO TO 2.

2.SYSTEM CHECK

Ⓐ With CONSULT-III

1. Select "COMBI SW" of BCM data monitor item.
2. Confirm that other switches in malfunctioning system operate normally.
Example: When the HI BEAM switch is malfunctioning, confirm that "TURN RH", "HEAD LAMP 1" and "LIGHT SW 1 ST" in System 5, to which the HI BEAM switch belongs, turn ON-OFF normally.

Ⓑ Without CONSULT-III

Operating combination switch, and confirm that other switches in malfunctioning system operate normally.
Example: When the HI BEAM switch is malfunctioning, confirm that "TURN RH", "HEAD LAMP 1" and "LIGHT SW 1 ST" in System 5, to which HI BEAM switch belongs, turn ON-OFF normally.

COMBINATION SWITCH

< SERVICE INFORMATION >

Check results

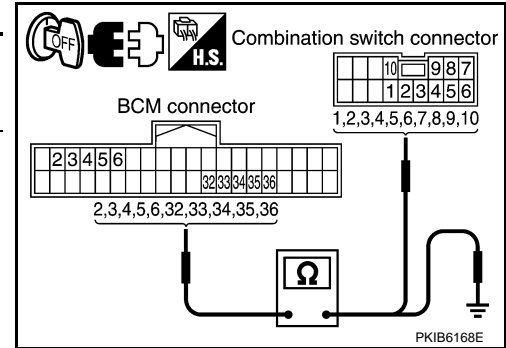
Other switches in malfunctioning system operate normally.>>Replace lighting switch or wiper switch.

Other switches in malfunctioning system do not operate normally.>>GO TO 3.

3.HARNESS INSPECTION

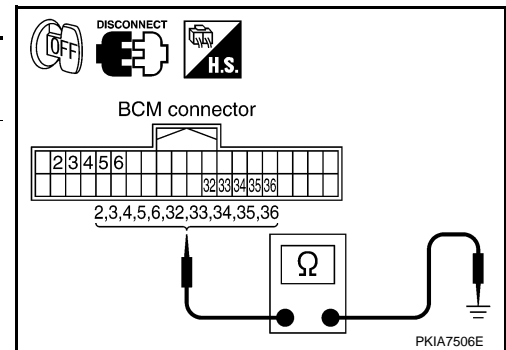
1. Turn ignition switch OFF.
2. Disconnect BCM and combination switch connectors.
3. Check for continuity between BCM harness connector of the suspect system and the corresponding combination switch harness connector.

Suspect system	BCM		Combination switch		Continuity
	Connector	Terminal	Connector	Terminal	
1	M90	Input 1	6	6	Yes
		Output 1	36	1	
2		Input 2	5	7	
		Output 2	35	2	
3		Input 3	4	10	
		Output 3	34	3	
4		Input 4	3	9	
		Output 4	33	4	
5		Input 5	2	8	
		Output 5	32	5	



4. Check for continuity between BCM harness connector in suspect malfunctioning system and ground.

Suspect system	BCM			Continuity	
	Connector	Terminal			
1	M90	Input 1	6	Ground	No
		Output 1	36		
Input 2		5			
Output 2		35			
Input 3		4			
Output 3		34			
Input 4		3			
Output 4		33			
Input 5		2			
Output 5		32			



OK or NG

OK >> GO TO 4.

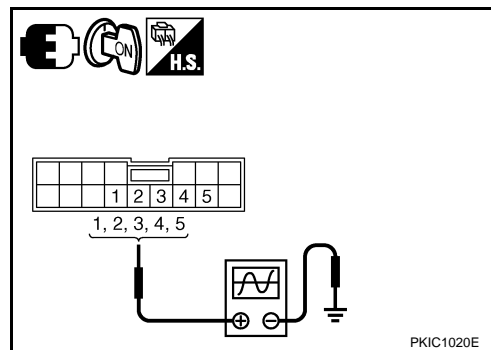
NG >> Check harness between BCM and combination switch for open or short circuit.

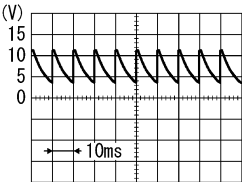
4.BCM OUTPUT TERMINAL INSPECTION

COMBINATION SWITCH

< SERVICE INFORMATION >

1. Connect BCM and combination switch connectors.
2. Set wiper intermittent dial position 4.
3. Turn ignition switch ON.
4. Check BCM output terminal voltage waveform of suspect malfunctioning system.



Suspect system	Terminals		Reference value (Approx.)	
	(+)			(-)
	Combination switch connector	Terminal		
1	M29	1	Ground	<div></div> <div>PKIB4960J</div> <div>7.2 V</div>
2		2		
3		3		
4		4		
5		5		

7.2 V

OK or NG

OK >> Open circuit in combination switch, GO TO 5.

NG >> Replace BCM. Refer to [BCS-15. "Removal and Installation of BCM"](#).

5.COMBINATION SWITCH INSPECTION

Referring to table below, perform combination switch inspection.

Procedure									
1	2		3	4		5	6		7
Replace lighting switch	Confirm check results	OK	INSPECTION END	Confirm check re-sults	OK	INSPECTION END	Confirm check re-sults	OK	INSPECTION END
		NG	Replace wiper switch		NG	Replace switch base		NG	Confirm symptom again

>> INSPECTION END

Removal and Installation

INFOID:000000004655898

Refer to [LT-79](#).

STOP LAMP

< SERVICE INFORMATION >

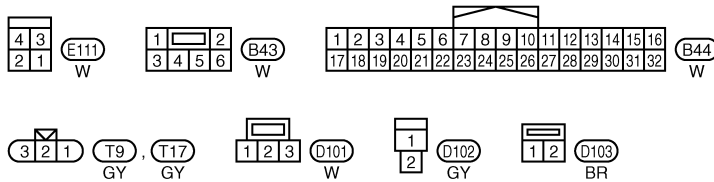
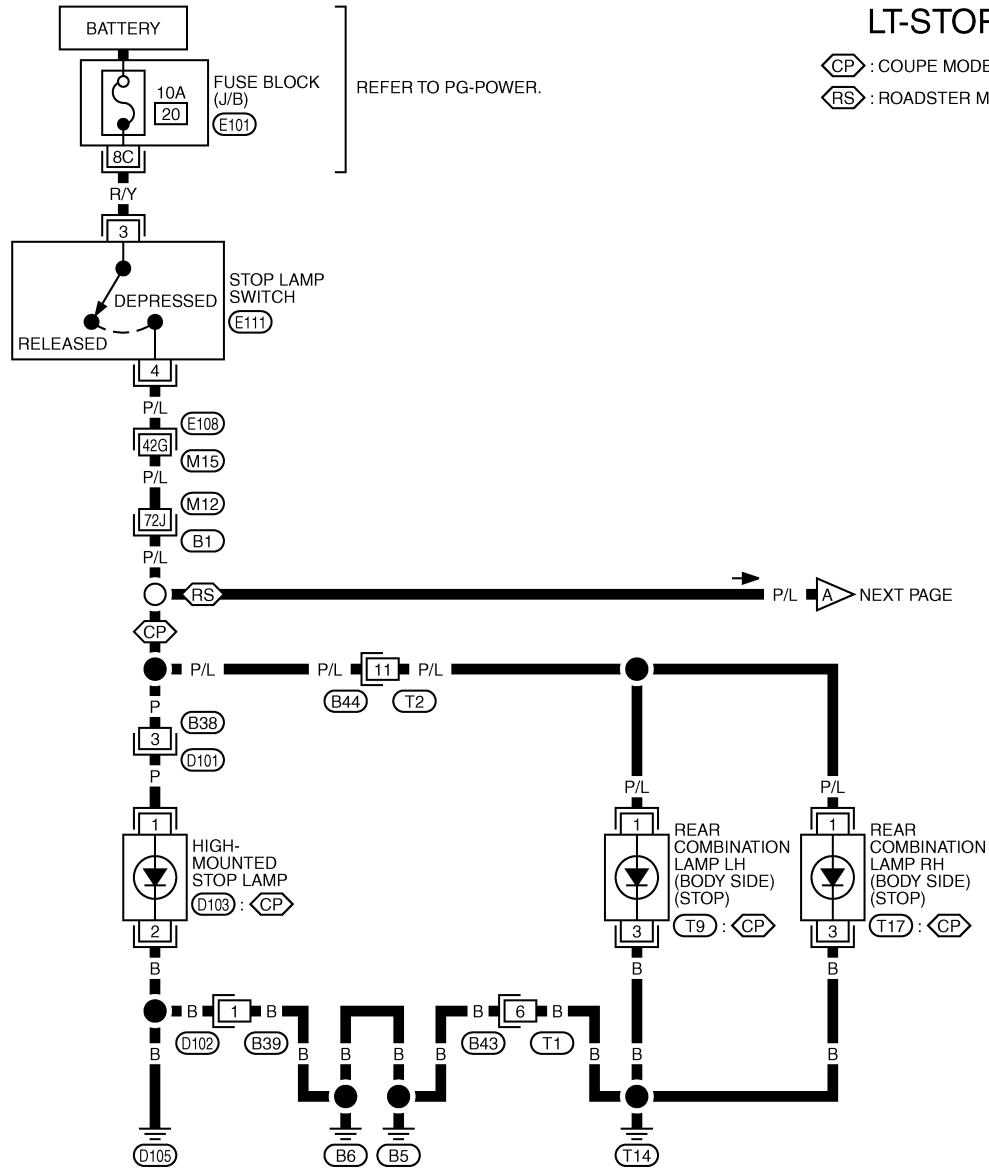
STOP LAMP

Wiring Diagram - STOP/L -

INFOID:000000004655899

LT-STOP/L-01

CP : COUPE MODELS
RS : ROADSTER MODELS



REFER TO THE FOLLOWING.
(E108), (B1) -SUPER MULTIPLE JUNCTION (SMJ)
(E101) -FUSE BLOCK-JUNCTION BOX (J/B)

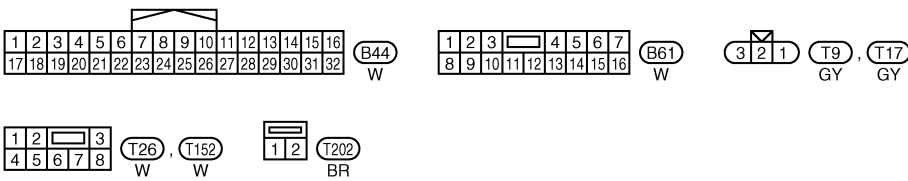
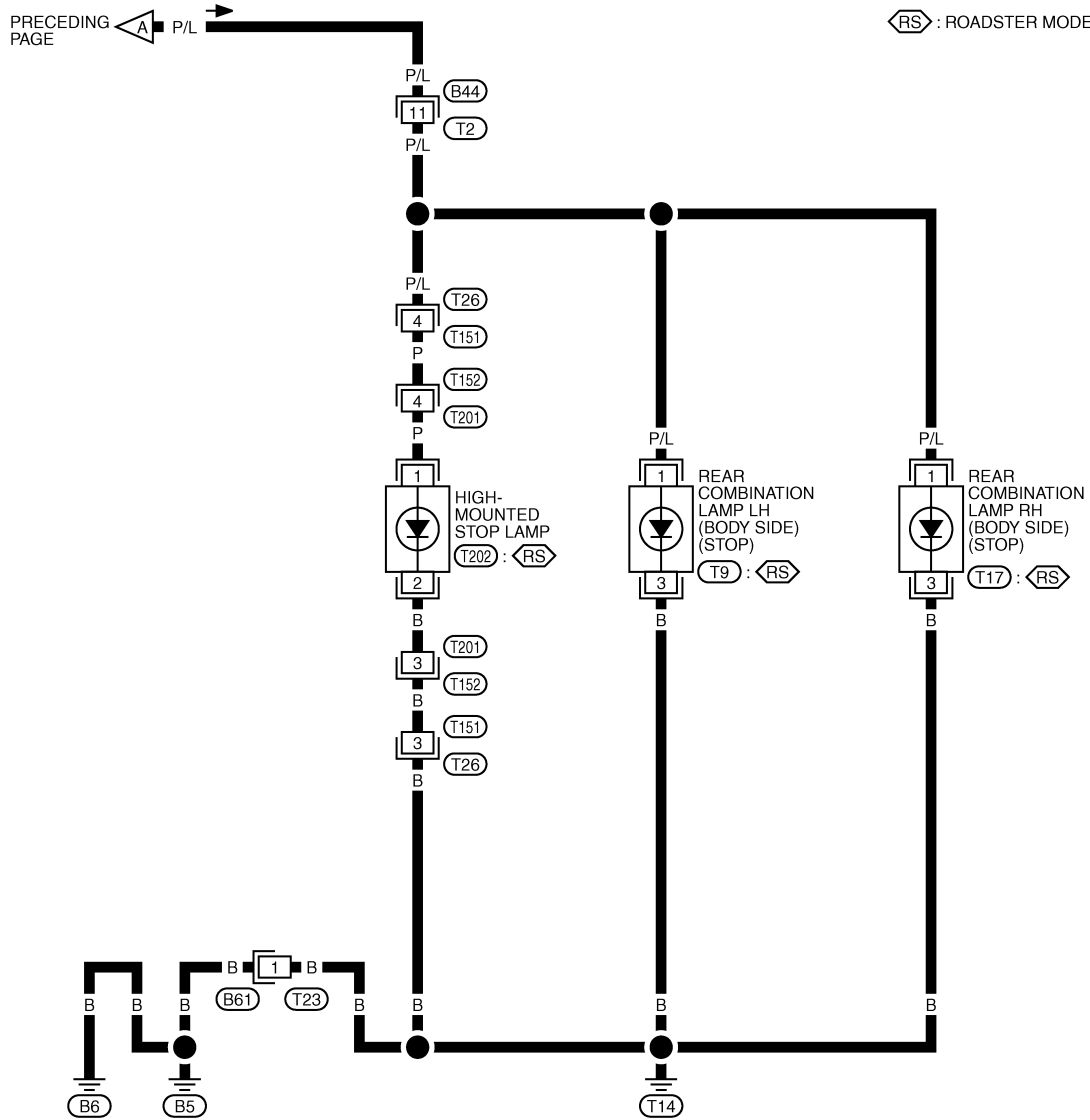
TKWT5755E

STOP LAMP

< SERVICE INFORMATION >

LT-STOP/L-02

RS : ROADSTER MODELS



High-Mounted Stop Lamp (Coupe Models)

BULB REPLACEMENT, REMOVAL AND INSTALLATION

TKWT4038E

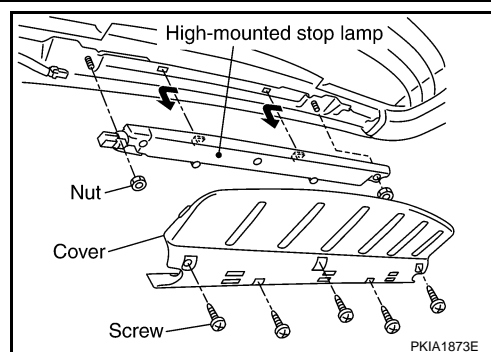
INFOID:000000004655900

STOP LAMP

< SERVICE INFORMATION >

1. Remove back door finisher upper. Refer to [EI-42, "Removal and Installation \(for Coupe Models\)"](#).
2. Disconnect high-mounted stop lamp connector.
3. Remove nuts and remove high-mounted stop lamp with cover from back door. Be sure to pull toward the arrow in the figure.
4. Remove screws and remove high-mounted stop lamp assembly from cover.
5. Installation is the reverse order of removal.

High-mounted stop lamp : LED



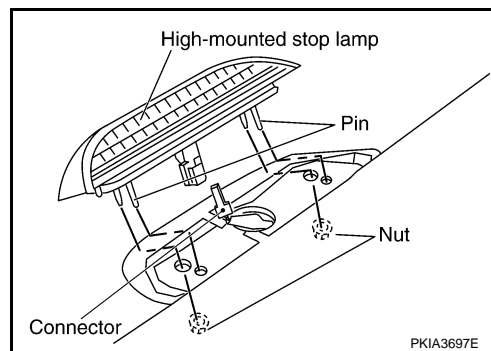
INFOID:000000004655901

High-Mounted Stop Lamp (Roadster Models)

BULB REPLACEMENT, REMOVAL AND INSTALLATION

1. Turn ignition switch ON, and turn soft-top OPEN/CLOSE switch ON.
2. When the storage lid is fully opened, soft-top OPEN/CLOSE switch to OFF.
3. Remove battery negative cable.
4. Disconnect high-mounted stop lamp connector.
5. Remove high-mounted stop lamp.
6. Remove high-mounted stop lamp assembly from storage lid.
7. Installation is the reverse order of removal.

High-mounted stop lamp : LED



INFOID:000000004655902

Stop Lamp

BULB REPLACEMENT

Refer to [LT-117, "Bulb Replacement"](#).

REMOVAL AND INSTALLATION

Refer to [LT-117, "Removal and Installation"](#).

BACK-UP LAMP

< SERVICE INFORMATION >

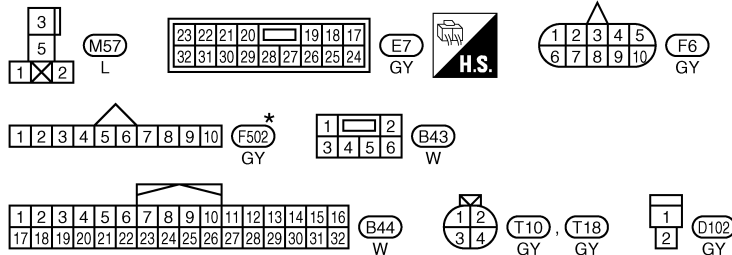
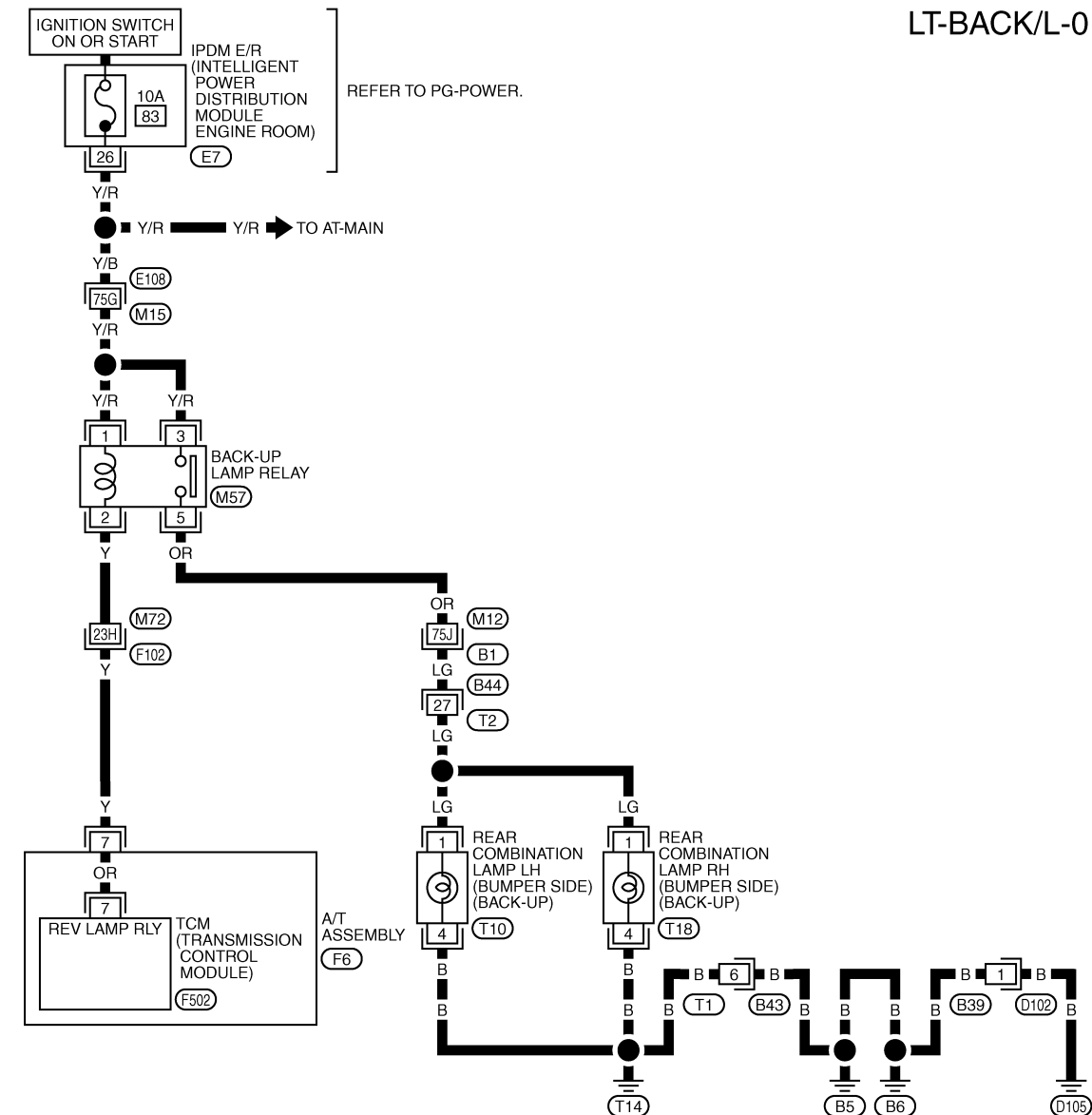
BACK-UP LAMP

Wiring Diagram - BACK/L -

INFOID:000000004655903

COUPE MODELS (A/T)

LT-BACK/L-01



★: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

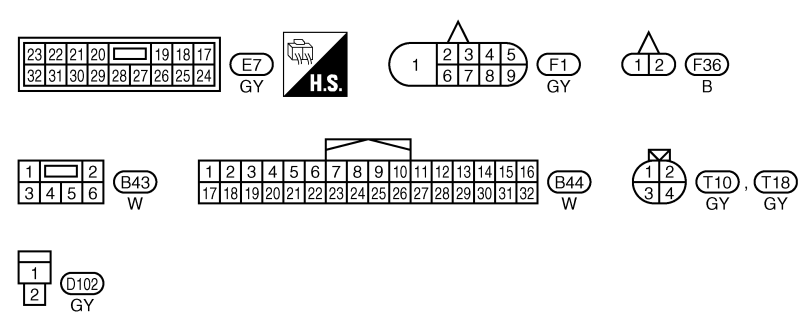
REFER TO THE FOLLOWING.
E108, F102, B1 -SUPER
MULTIPLE JUNCTION (SMJ)

TKWT5756E

A
B
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D
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J
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L
M
N
O
P

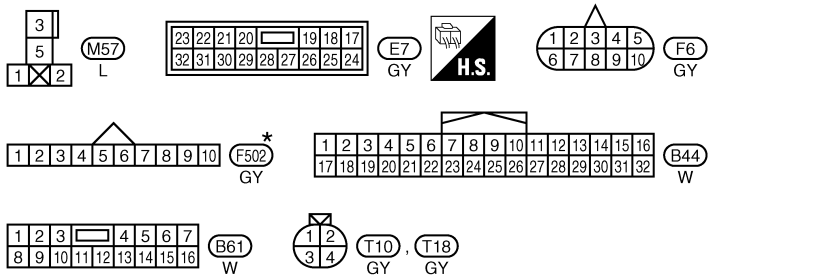
COUPE MODELS (M/T)

LT



TKWT5757E

ROADSTER MODELS (A/T)



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

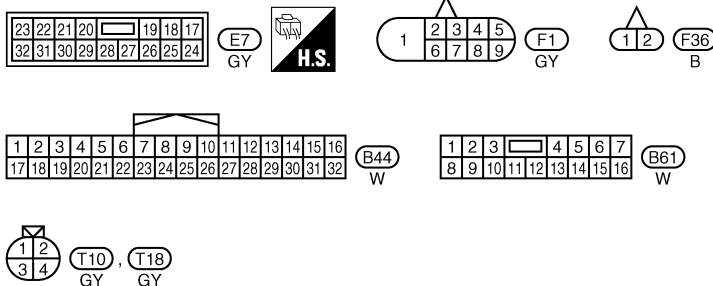
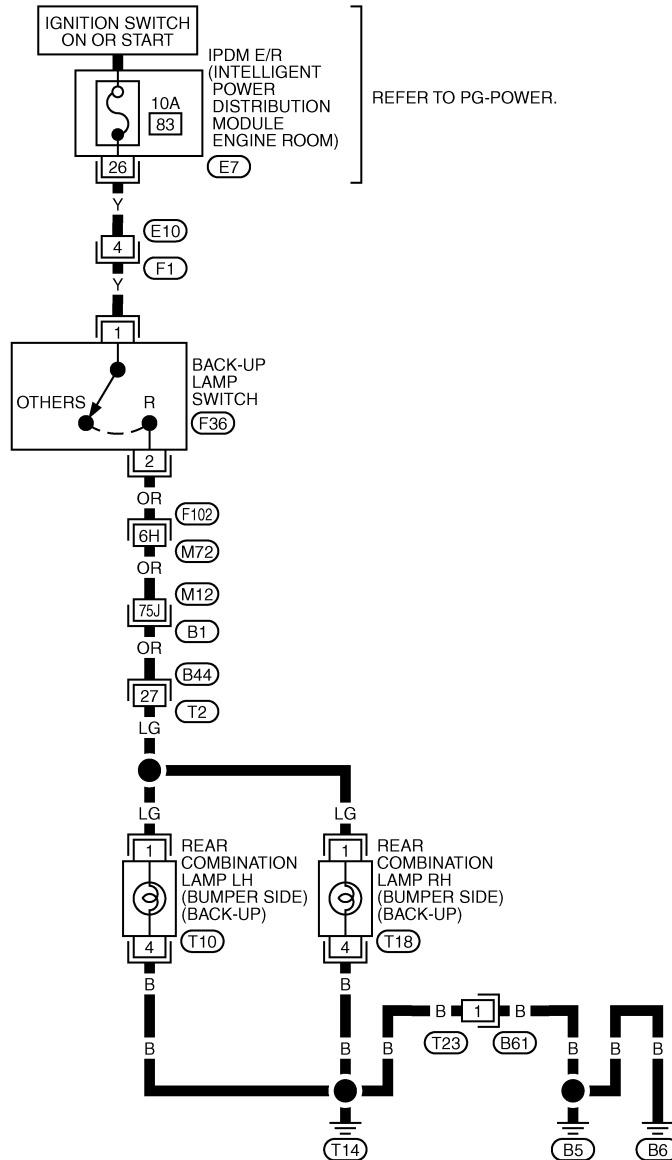
2008 & 2009 350Z

BACK-UP LAMP

< SERVICE INFORMATION >

ROADSTER MODELS (M/T)

LT-BACK/L-04



REFER TO THE FOLLOWING.
(F102), (B1) -SUPER MULTIPLE JUNCTION (SMJ)

Bulb Replacement

Refer to [LT-117, "Bulb Replacement"](#).

Removal and Installation

Refer to [LT-117, "Removal and Installation"](#).

TKWT5759E

INFOID:000000004655904

INFOID:000000004655905

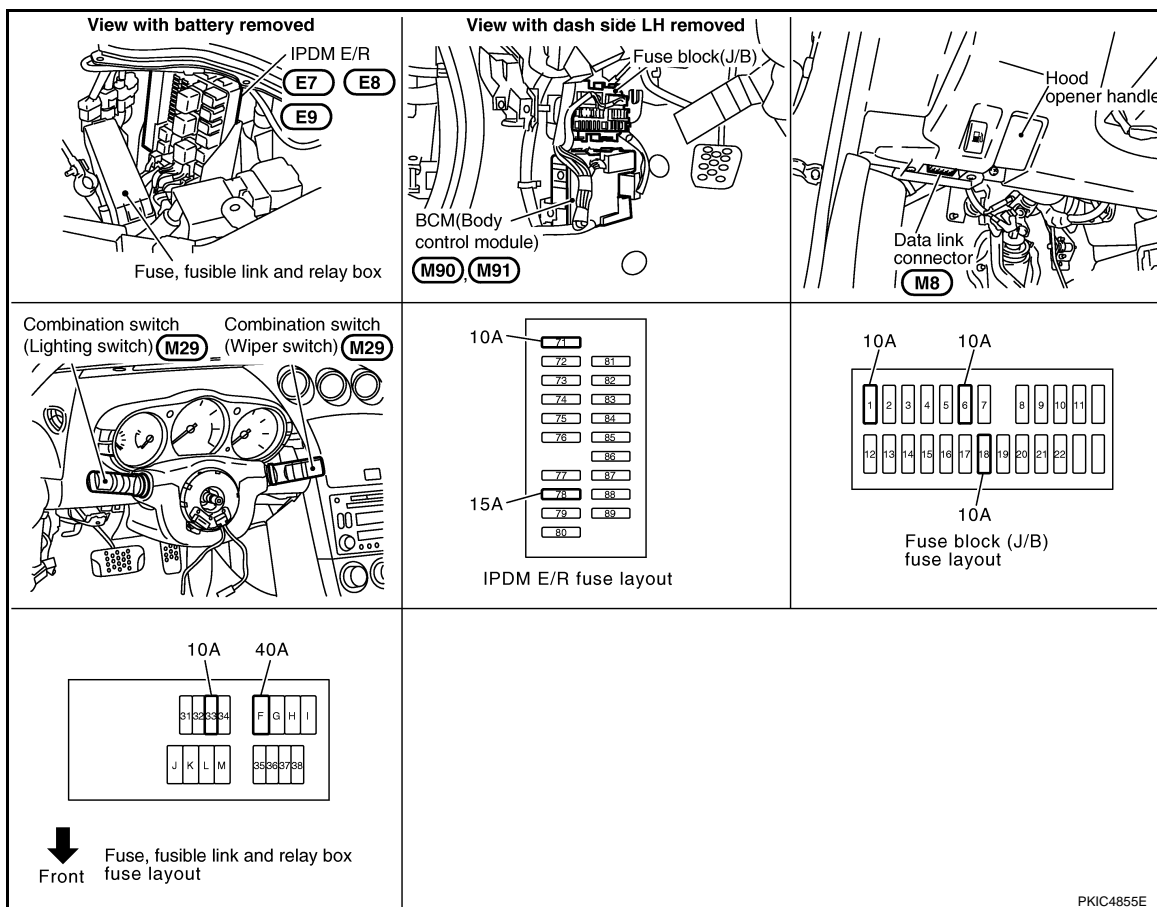
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

PARKING, LICENSE PLATE AND TAIL LAMPS

Component Parts and Harness Connector Location

INFOID:000000004655906



PKIC4855E

System Description

INFOID:000000004655907

Control of parking, license plate, side maker and tail lamps operation is dependent upon the position of lighting switch (combination switch). When the lighting switch is in the 1ST position, the BCM (body control module) receives input signal requesting the parking, license plate, side marker and tail lamps to illuminate. This input signal is communicated to the IPDM E/R (intelligent power distribution module engine room) through CAN communication. The CPU (central processing unit) located in the IPDM E/R controls the tail lamp relay coil and daytime light relay* coil. These relay, when energized, directs power to parking, license plate, side marker and tail lamps, which then illuminate.

NOTE:

Daytime light relay*: Canada models

OUTLINE

Power is supplied at all times

- through 10A fuse (No.71, located in IPDM E/R)
- to tail lamp relay, located in IPDM E/R, and
- to CPU located in IPDM E/R,
- through 15A fuse (No.78, located in IPDM E/R)
- to CPU located in IPDM E/R,
- through 40A fusible link (letter F, located in fuse, fusible link and relay box)
- to BCM terminal 55,
- through 10A fuse [No.18, located in fuse block (J/B)]
- to BCM terminal 42.

With ignition switch in ON or START position, power is supplied

- to CPU located in IPDM E/R,
- through 10A fuse [No.1, located in fuse block (J/B)]
- to BCM terminal 38.

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

With ignition switch in ACC or ON position, power is supplied

- through 10A fuse [No. 6, located in fuse block (J/B)]
- to BCM terminal 11.

Ground is supplied

- to BCM terminal 52
- through grounds M30 and M66,
- to IPDM E/R terminals 38 and 60
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone).

OPERATION BY LIGHTING SWITCH

With the lighting switch in the 1ST or 2ND position, the BCM receives input signal requesting the parking, license plate, side marker and tail lamps to illuminate. This input is communicated to the IPDM E/R through the CAN communication lines. The CPU located in the IPDM E/R controls the tail lamp relay coil and daytime light relay* coil. These relay, when energized, directs power to parking, license plate, side marker and tail lamps, which when energized, directs power

- through IPDM E/R terminal 22 (USA models)
- through daytime light relay terminal 5 (Canada models)
- to front combination lamp LH terminals 6
- to front combination lamp RH terminals 6
- to rear combination lamp LH terminals 2
- to rear combination lamp RH terminals 2
- to license plate lamp LH terminal 2, and
- to license plate lamp RH terminal 2.

Ground is supplied at all times

- to front combination lamp LH terminal 8, and
- to front combination lamp RH terminal 8
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to rear combination lamp LH terminals 3
- to rear combination lamp RH terminals 3
- to license plate lamp LH terminal 1, and
- to license plate lamp RH terminal 1
- through grounds B5, B6, D105 and T14 (Coupe models)
- through grounds B5, B6 and T14 (Roadster models).

With power and ground supplied, parking, license plate side marker and tail lamps illuminate.

NOTE:

Daytime light relay*: Canada models

COMBINATION SWITCH READING FUNCTION

Refer to [BCS-4, "System Description"](#).

EXTERIOR LAMP BATTERY SAVER CONTROL

When the combination switch (lighting switch) is in the 2ND position (ON), and the ignition switch is turned from ON or ACC to OFF, the battery saver control function is activated.

Under this condition, the parking, license, side marker and tail lamps remain illuminated for 5 minutes, then the headlamps are turned off.

Exterior lamp battery saver control mode can be changed by the function setting of CONSULT-III.

CAN Communication System Description

INFOID:000000004655908

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

INFOID:000000004655909

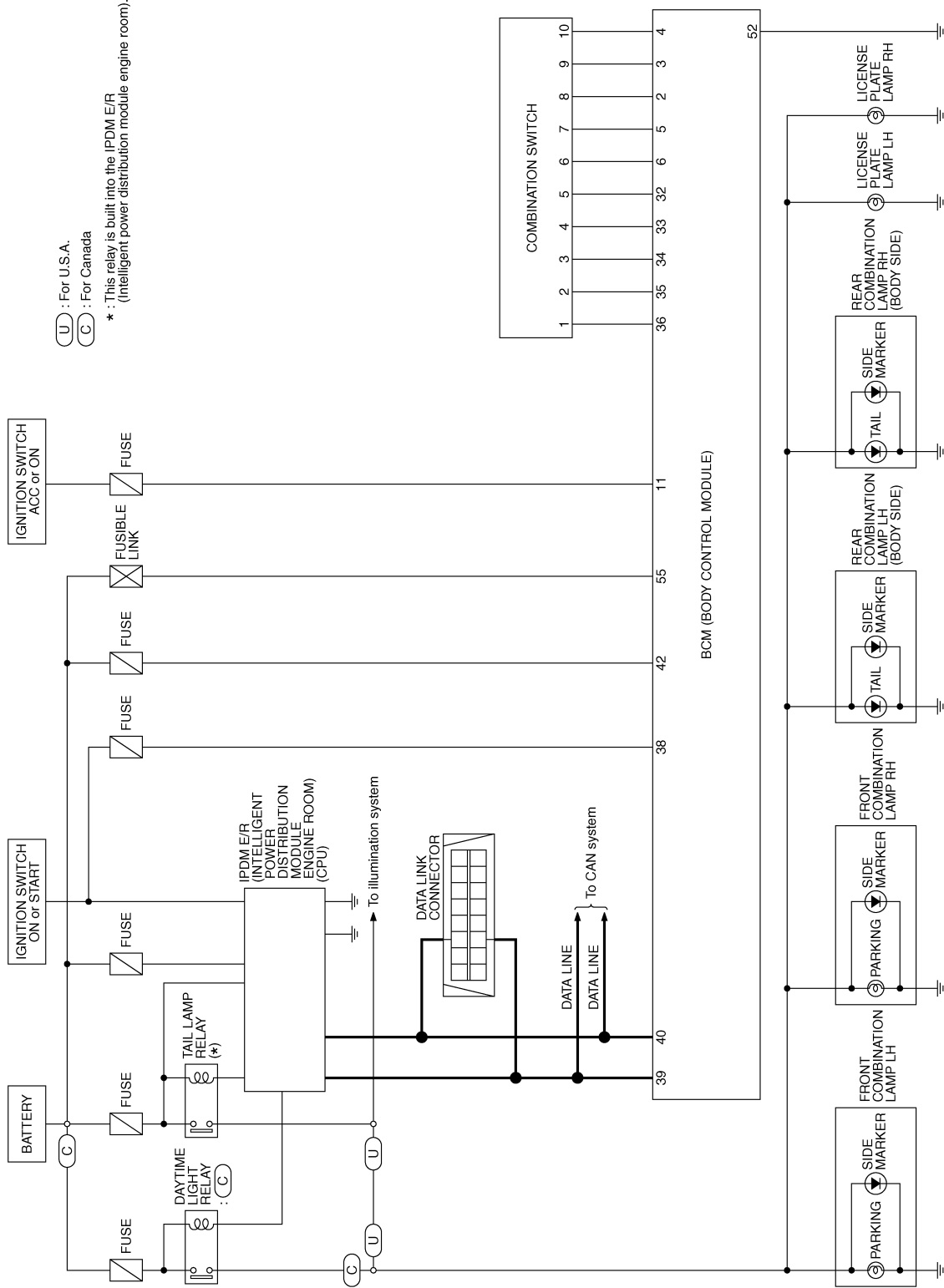
Refer to [LAN-41, "CAN System Specification Chart"](#).

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >


Schematic

INFOID:000000004655910



TKWT4043E

< SERVICE INFORMATION >

 : DATA LINE

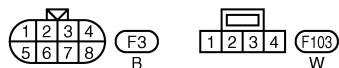
 : FOR U.S.A.

NT : WITH VDC SYSTEM,
NAVIGATION SYSTEM OR TELEPHONE

OT : WITHOUT VDC SYSTEM,
NAVIGATION SYSTEM AND TELEPHONE



(E108) -SUPER MULTIPLE
JUNCTION (SMJ)

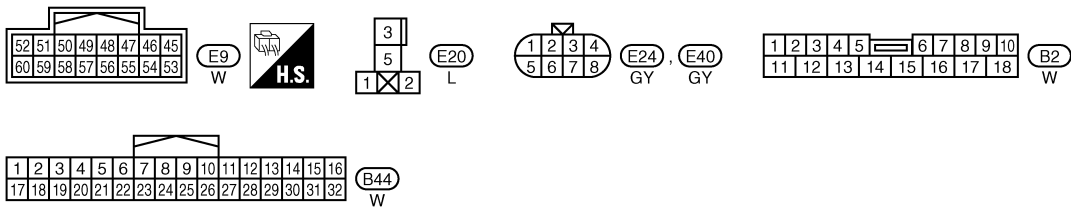
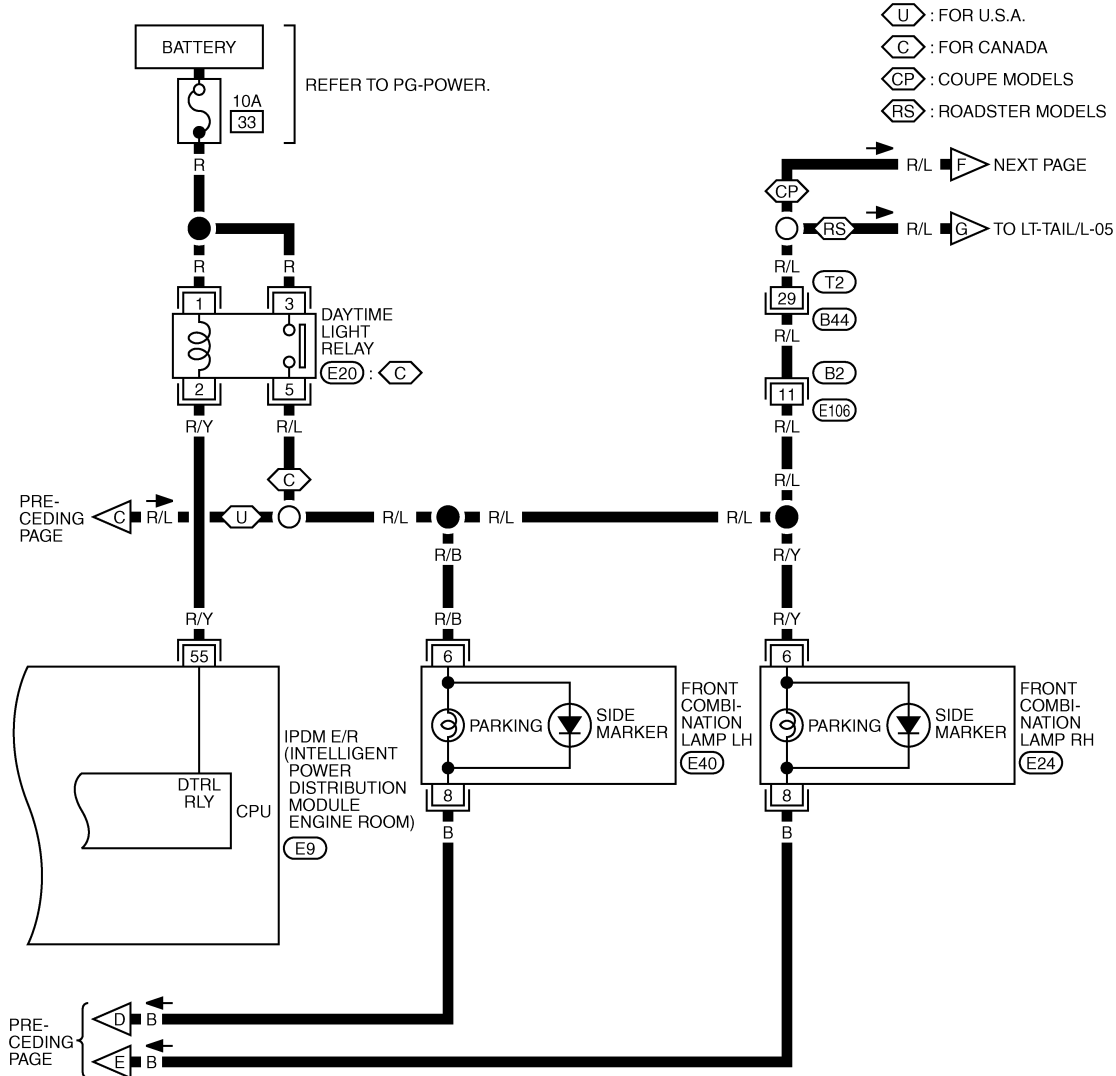


TKWT5761E

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

LT-TAIL/L-03



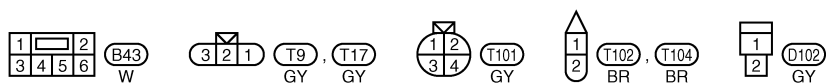
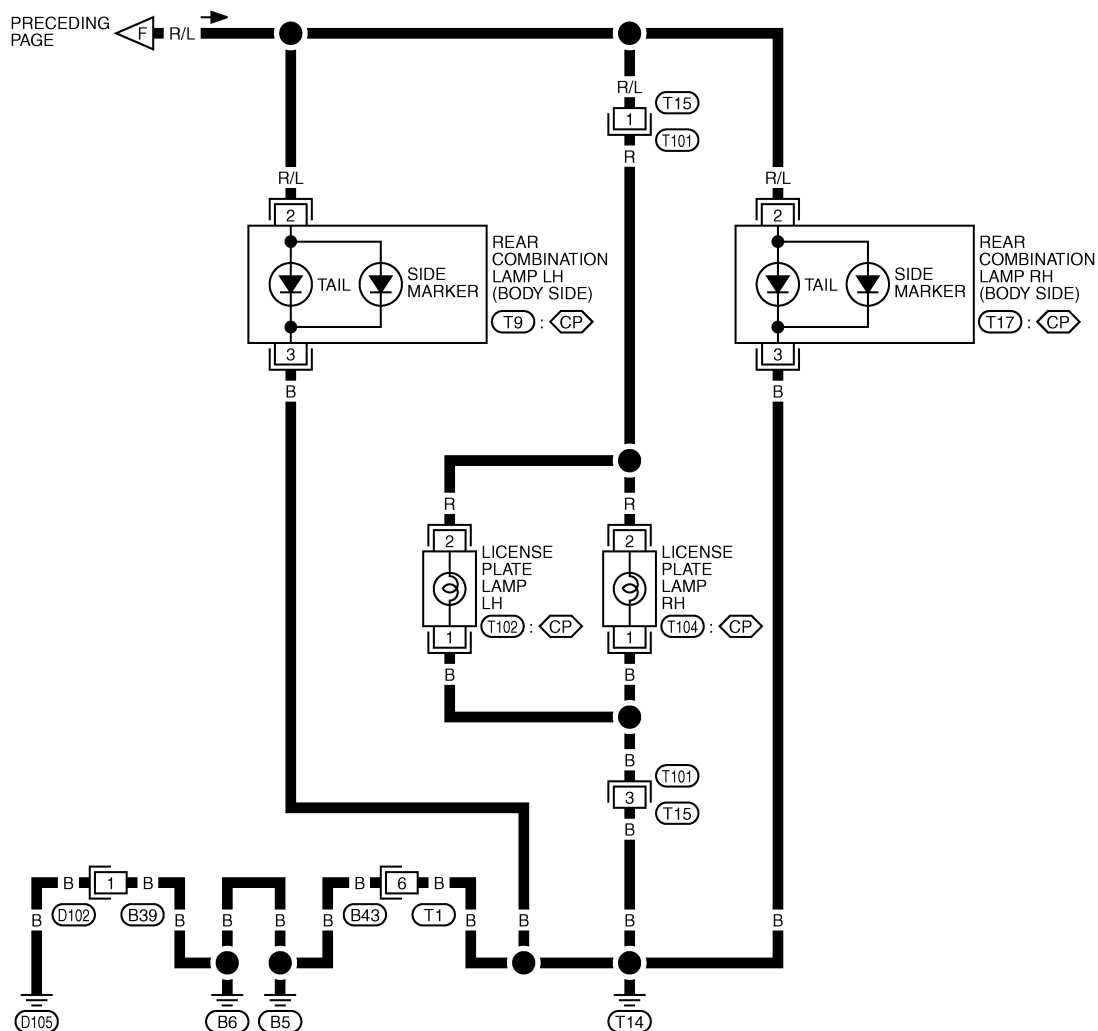
TKWT5762E

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

LT-TAIL/L-04

CP : COUPE MODELS



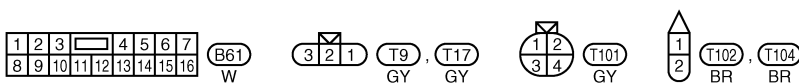
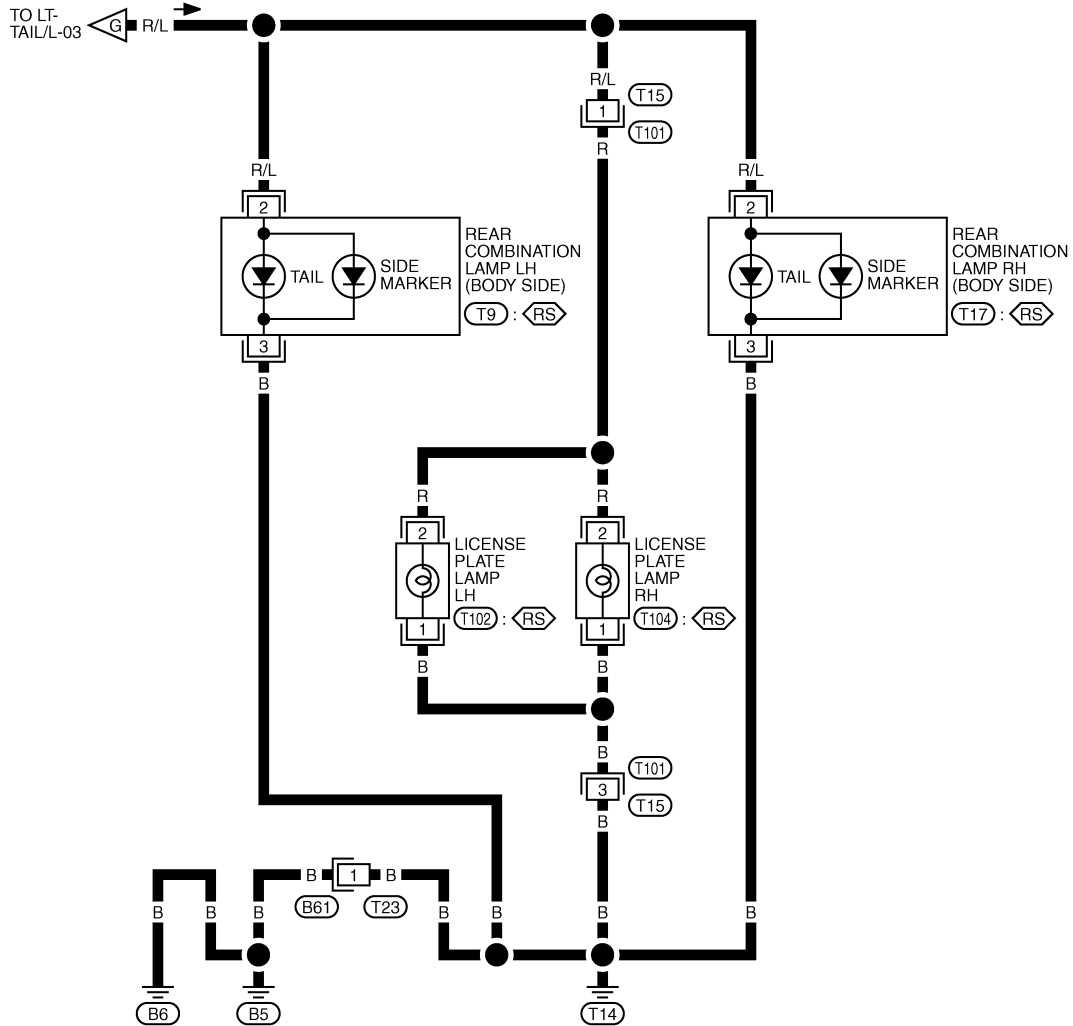
TKWT4047E

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

LT-TAIL/L-05

RS : ROADSTER MODELS



Terminal and Reference Value for BCM

CAUTION:

- Check combination switch system terminal waveform under the loaded condition with lighting switch, turn signal switch and wiper switch OFF not to be fluctuated by overloaded.
- Turn wiper dial position to 4 except when checking waveform or voltage of wiper dial position. Wiper dial position can be confirmed on CONSULT-III. Refer to [LT-85, "CONSULT-III Function \(BCM\)"](#).

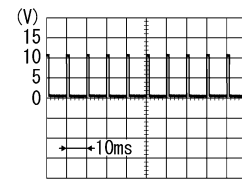
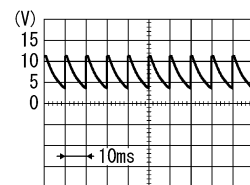
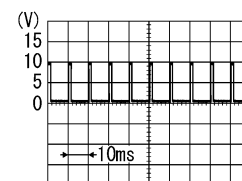
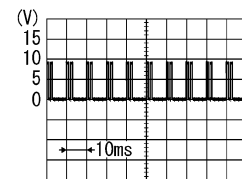
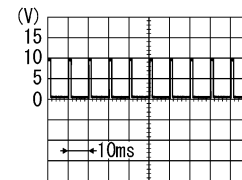
TKWTT4048E

INFOID:000000004655912

PARKING, LICENSE PLATE AND TAIL LAMPS

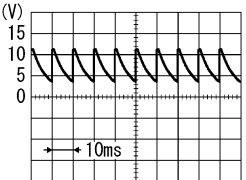
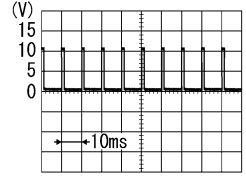
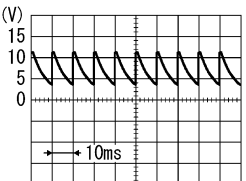
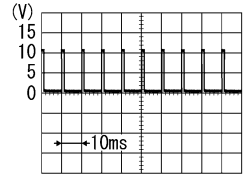
< SERVICE INFORMATION >

Ter- minal No.	Wire color	Signal name	Measuring condition			Reference value
			Ignition switch	Operation or condition		
2	GY	Combination switch input 5	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	Approx. 0 V
					Any of the conditions below • Lighting switch 1ST • Lighting switch HIGH beam (Operates only HIGH beam switch)	 PKIB4959J
					Lighting switch 2ND	 PKIB4953J
3	L/W	Combination switch input 4	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	Approx. 0 V
					Any of the conditions below • Lighting switch 2ND • Lighting switch PASSING (Operates only PASSING switch)	 PKIB4959J
						Approx. 1.0 V
11	LG	Ignition switch (ACC)	ACC	—		Battery voltage
33	G	Combination switch output 4	ON	Lighting, turn, wiper switch (Wiper inter- mittent dial po- sition 4)	OFF	 PKIB4960J
					Lighting switch 1ST (The same re- sult with lighting switch 2ND)	 PKIB4958J
						Approx. 1.2 V



PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
34	W/L	Combination switch output 3	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	 <p>Approx. 7.2 V</p>
				Any of the conditions below	 <p>Approx. 1.2 V</p>
35	W/G	Combination switch output 2	ON	Lighting, turn, wiper switch (Wiper intermittent dial position 4)	 <p>Approx. 7.2 V</p>
				Any of the conditions below	 <p>Approx. 1.2 V</p>
38	W/L	Ignition switch (ON)	ON	—	Battery voltage
39	L	CAN – H	—	—	—
40	P	CAN – L	—	—	—
42	GY	Battery power supply	OFF	—	Battery voltage
52	B	Ground	ON	—	Approx. 0 V
55	R	Battery power supply	OFF	—	Battery voltage

Terminal and Reference Value for IPDM E/R

INFOID:000000004655913

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
22	R	Parking, license plate, side marker and tail lamp	ON	Lighting switch 1ST position	OFF
				Lighting switch 1ST position	ON
38	B	Ground	ON	—	Approx. 0 V

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

Terminal No.	Wire color	Signal name	Measuring condition		Reference value
			Ignition switch	Operation or condition	
48	L	CAN – H	—	—	—
49	P	CAN – L	—	—	—
60	B	Ground	ON	—	Approx. 0 V

How to Proceed with Trouble Diagnosis

INFOID:000000004655914

1. Confirm the symptom or customer complaint.
2. Understand operation description and function description. Refer to [LT-96, "System Description"](#).
3. Carry out preliminary check. Refer to [LT-106, "Preliminary Check"](#).
4. Check symptom and repair or replace the cause of malfunction.
5. Do parking, license plate, side marker and tail lamps operate normally? If YES, GO TO 6. If NO, GO TO 4.
6. INSPECTION END

Preliminary Check

INFOID:000000004655915

CHECK POWER SUPPLY AND GROUND CIRCUIT

1.CHECK FUSES AND FUSIBLE LINK

Check for blown fuses and fusible link.

Unit	Power source	Fuse and fusible link No.
BCM	Battery	F
		18
	Ignition switch ON or START position	1
	Ignition switch ACC or ON position	6
IPDM E/R	Battery	71

Refer to [LT-99, "Wiring Diagram - TAIL/L -"](#).

OK or NG

OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-4](#).

2.CHECK POWER SUPPLY CIRCUIT

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

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

Terminals		Ignition switch position			
(+) (–)		OFF	ACC	ON	
BCM connector	Terminal				
M90	11	Approx. 0 V	Battery voltage	Battery voltage	Ground
	38	Approx. 0 V	Approx. 0 V	Battery voltage	
M91	42	Battery voltage	Battery voltage	Battery voltage	Ground
	55	Battery voltage	Battery voltage	Battery voltage	

OK or NG

- OK >> GO TO 3.
NG >> Repair harness or connector.

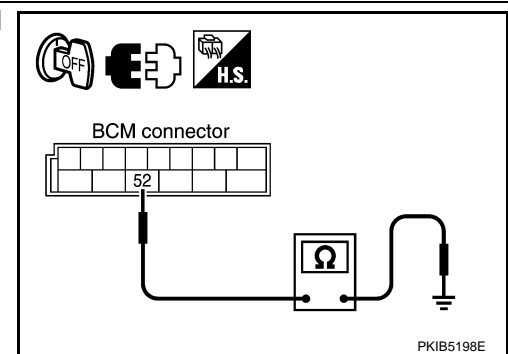
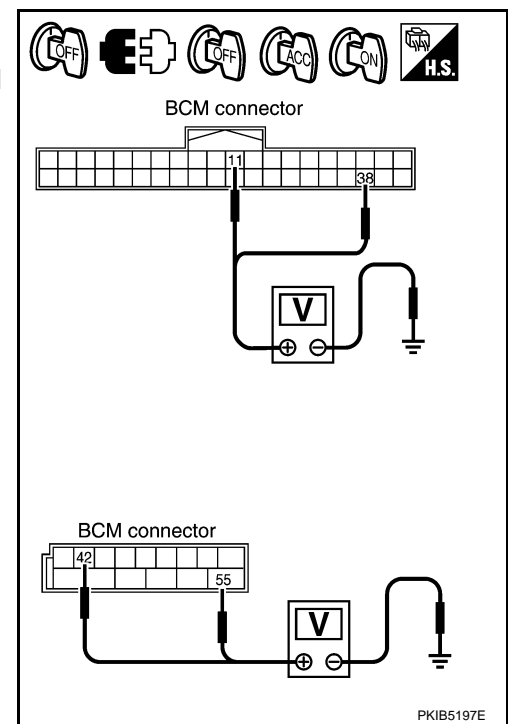
3.CHECK GROUND CIRCUIT

Check continuity between BCM harness connector terminal and ground.

BCM connector	Terminal	Ground	Continuity
M91	52		Yes

OK or NG

- OK >> INSPECTION END
NG >> Repair harness or connector.



CONSULT-III Function (BCM)

Refer to [LT-16, "CONSULT-III Function \(BCM\)"](#) in HEADLAMP (FOR USA).
Refer to [LT-46, "CONSULT-III Function \(BCM\)"](#) in HEADLAMP (FOR CANADA).

CONSULT-III Function (IPDM E/R)

Refer to [LT-17, "CONSULT-III Function \(IPDM E/R\)"](#) in HEADLAMP (FOR USA).
Refer to [LT-47, "CONSULT-III Function \(IPDM E/R\)"](#) in HEADLAMP (FOR CANADA).

Parking, License Plate, Side Marker and Tail Lamps Do Not Illuminate (for USA)

1.CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "LIGHT SW 1ST" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is 1ST : LIGHT SW 1ST ON position

CHECK COMBINATION SWITCH

Refer to [LT-86, "Combination Switch Inspection"](#).

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

OK or NG

- OK >> GO TO 2.
NG >> Check combination switch (lighting switch). Refer to [LT-86, "Combination Switch Inspection"](#).

2. ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "TAIL LAMP" of IPDM E/R active test item.
2. With operating the test item, check the parking, license plate, side marker and tail lamps operation.

Parking, license plate, side marker and tail lamps should operate.

IPDM E/R AUTO ACTIVE TEST

1. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
2. Check that the parking, license plate, side marker and tail lamps operation.

Parking, license plate, side marker and tail lamps should operate.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 4.

3. CHECK IPDM E/R

1. Select "TAIL&CLR REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is 1ST : TAIL&CLR REQ ON position

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
NG >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).

4. CHECK IPDM E/R

CONSULT-III ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp, rear combination lamp and license plate lamp connectors.
3. Select "TAIL LAMP" of IPDM E/R active test item.
4. With operating the test item, check voltage between front combination lamp, rear combination lamp and license plate lamp harness connector and ground.

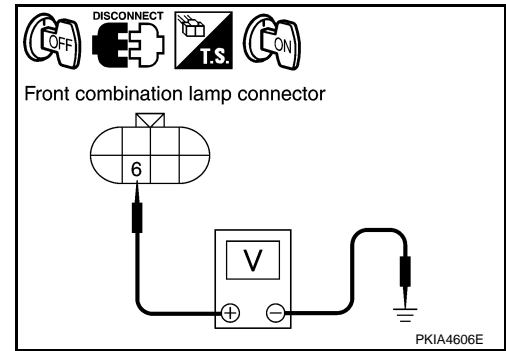
IPDM E/R AUTO ACTIVE TEST

1. Turn ignition switch OFF.
2. Disconnect front combination lamp, rear combination lamp and license plate lamp connector.
3. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
4. With operating the test item, check voltage between front combination lamp, rear combination lamp and license plate lamp harness connector and ground.

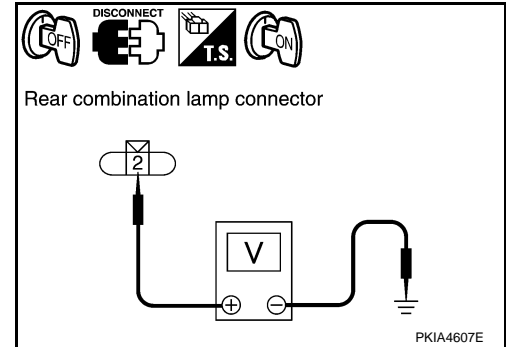
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

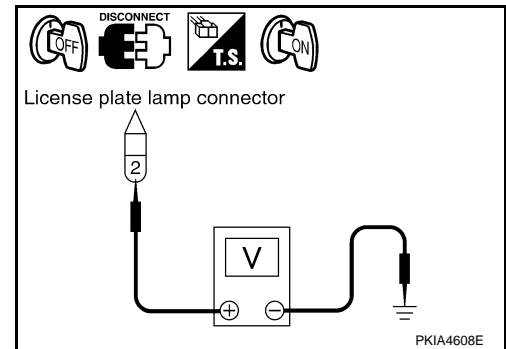
Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
Front combination lamp connector				
RH	E24	6	Ground	Battery voltage
LH	E40			



Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
Rear combination lamp connector				
RH	T17	2	Ground	Battery voltage
LH	T9			



Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
License plate lamp connector				
RH	T104	2	Ground	Battery voltage
LH	T102			



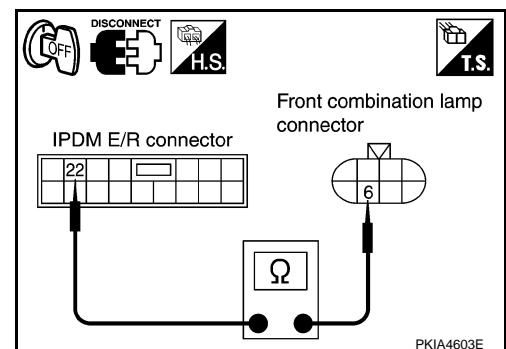
OK or NG

- OK >> GO TO 6.
NG >> GO TO 5.

5.CHECK CIRCUIT BETWEEN IPDM E/R AND PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS

1. Turn ignition switch OFF.
2. Disconnect IPDM E/R connector.
3. Check continuity between IPDM E/R harness connector and front combination lamp, rear combination lamp and license plate lamp harness connector.

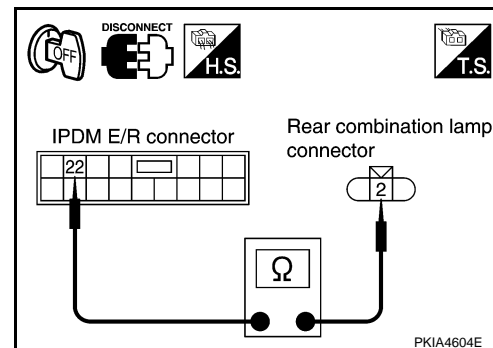
Terminals					Continuity
IPDM E/R		Front combination lamp			
Connector	Terminal	Connector		Terminal	
E7	22	RH	E24	6	Yes
		LH	E40	6	



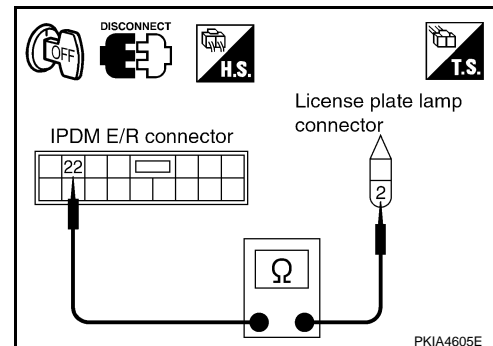
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

Terminals					Continuity
IPDM E/R		Rear combination lamp			
Connector	Terminal	Connector		Terminal	
E7	22	RH	T17	2	Yes
		LH	T9	2	



Terminals					Continuity
IPDM E/R		Licence plat lamp			
Connector	Terminal	Connector		Terminal	
E7	22	RH	T104	2	Yes
		LH	T102	2	



OK or NG

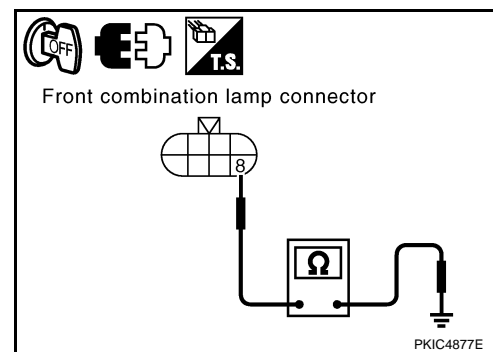
OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).

NG >> Repair harness or connector.

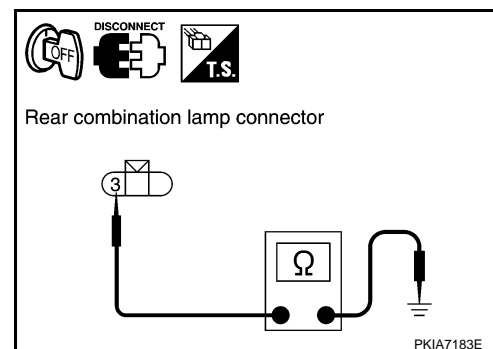
6.CHECK GROUND

1. Check continuity between front combination lamp, rear combination lamp and license plate lamp harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	E24	8		Yes
LH	E40			



Rear combination lamp connector		Terminal	Ground	Continuity
RH	T17	3		Yes
LH	T9			



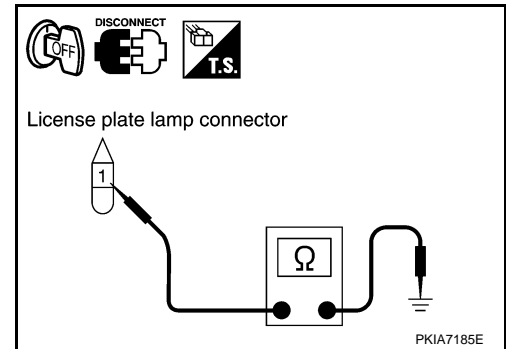
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

License plate lamp connector		Terminal	Ground	Continuity
RH	T104	1		Yes
LH	T102			

OK or NG

- OK >> Check bulb.
NG >> Repair harness or connector.



Parking, License Plate, Side Marker, and Tail Lamps Do Not Illuminate (for Canada)

INFOID:000000004655919

1. CHECK COMBINATION SWITCH INPUT SIGNAL

CONSULT-III DATA MONITOR

1. Select "LIGHT SW 1ST" of BCM data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is 1ST : LIGHT SW 1ST ON position

CHECK COMBINATION SWITCH

Refer to [LT-86, "Combination Switch Inspection"](#).

OK or NG

- OK >> GO TO 2.
NG >> Check combination switch (lighting switch). Refer to [LT-86, "Combination Switch Inspection"](#).

2. ACTIVE TEST

CONSULT-III ACTIVE TEST

1. Select "TAIL LAMP" of IPDM E/R active test item.
2. With operating the test item, check the parking, license plate, side marker and tail lamps operation.

Parking, license plate, side marker and tail lamps should operate.

IPDM E/R AUTO ACTIVE TEST

1. Start auto active test. Refer to [PG-19, "Auto Active Test"](#).
2. With operating the test item, check the parking, license plate, side marker and tail lamps operation.

Parking, license plate, side marker and tail lamps should operate.

OK or NG

- OK >> GO TO 3.
NG >> GO TO 4.

3. CHECK IPDM E/R

1. Select "TAIL&CLR REQ" of IPDM E/R data monitor item.
2. With operating the lighting switch, check the monitor status.

When lighting switch is 1ST : TAIL&CLR REQ ON position

OK or NG

- OK >> Replace IPDM E/R. Refer to [PG-23, "Removal and Installation of IPDM E/R"](#).
NG >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).

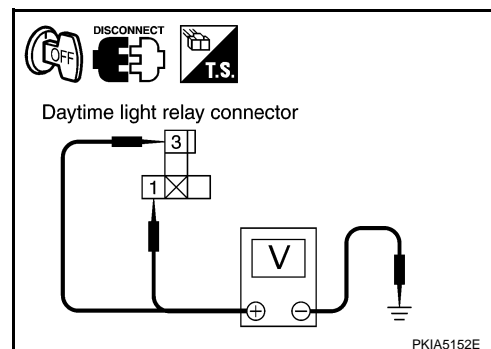
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

4. CHECK POWER SUPPLY CIRCUIT TO DAYTIME LIGHT RELAY

1. Turn ignition OFF.
2. Disconnect daytime light relay.
3. Check voltage between daytime light relay harness connector and ground.

Terminal		voltage (Approx.)
(+)	(-)	
Daytime light relay connector	Terminal	
E20	1	Ground
	3	
		Battery voltage



OK or NG

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

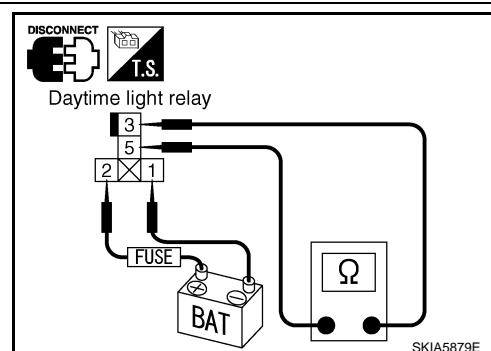
5. CHECK DAYTIME LIGHT RELAY

Apply battery voltage to between daytime light relay E20 terminal 1, 2 and check continuity between terminal 3 and 5.

3 – 5 : Continuity should exist.

OK or NG

- OK >> GO TO 6.
NG >> Replace daytime light relay.



6. CHECK DAYTIME LIGHT RELAY CIRCUIT

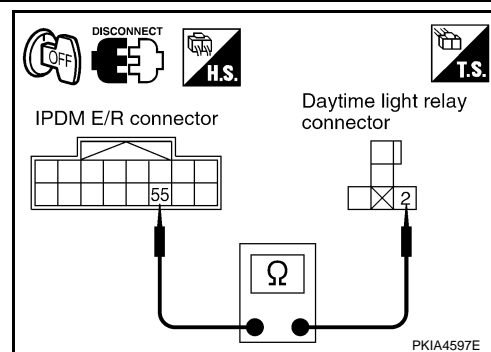
1. Disconnect IPDM E/R connector.
2. Check continuity between IPDM E/R harness connector and daytime light relay harness connector.

Terminals				Continuity
IPDM E/R		Daytime light relay		
Connector	Terminal	Connector	Terminal	
E9	55	E20	2	

OK or NG

- OK >> GO TO 7.
NG >> Repair harness or connector.

7. CHECK IPDM E/R



CONSULT-III ACTIVE TEST

1. Connect daytime light relay and IPDM E/R connector.
2. Disconnect front combination lamp, rear combination lamp and license plate lamp connectors.
3. Select "TAIL LAMP" of IPDM E/R active test item.
4. With operating the test item, check voltage between front combination lamp, rear combination lamp and license plate lamp harness connector and ground.

IPDM E/R AUTO ACTIVE TEST

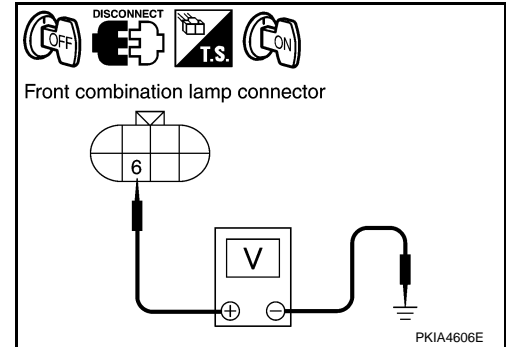
1. Connect daytime light relay and IPDM E/R connector.
2. Disconnect front combination lamp, rear combination lamp and license plate lamp connector.
3. Start auto active test. Refer to [PG-19. "Auto Active Test"](#).

PARKING, LICENSE PLATE AND TAIL LAMPS

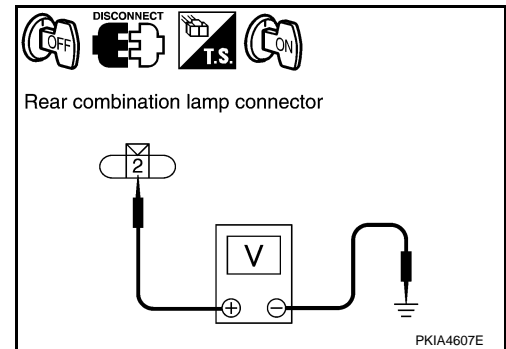
< SERVICE INFORMATION >

- With operating the test item, check voltage between front combination lamp, rear combination lamp and license plate lamp harness connector and ground.

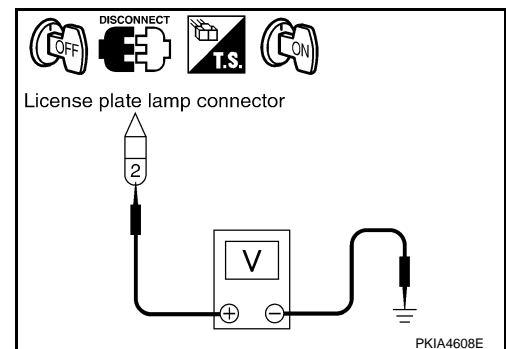
Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
Front combination lamp connector				
RH	E24	6	Ground	Battery voltage
LH	E40			



Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
Rear combination lamp connector				
RH	T17	2	Ground	Battery voltage
LH	T9			



Terminals				Voltage (Approx.)
(+)		Terminal	(-)	
License plate lamp connector				
RH	T104	2	Ground	Battery voltage
LH	T102			



OK or NG

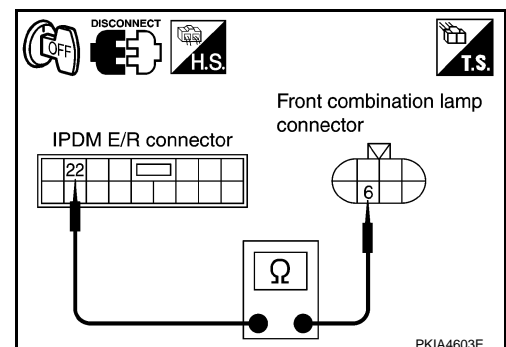
OK >> GO TO 9.

NG >> GO TO 8.

8. CHECK CIRCUIT BETWEEN IPDM E/R AND PARKING, LICENSE PLATE, SIDE MARKER AND TAIL LAMPS

- Turn ignition switch OFF.
- Disconnect IPDM E/R connector.
- Check continuity between IPDM E/R harness connector and front combination lamp, rear combination lamp and license plate lamp harness connector.

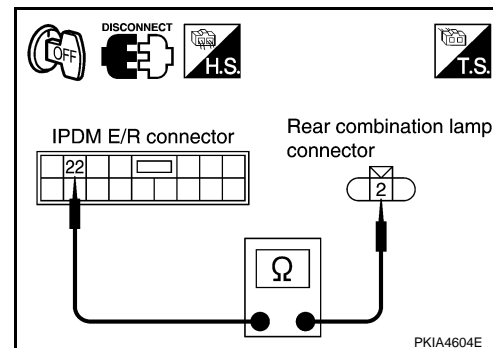
Terminals					Continuity
IPDM E/R		Front combination lamp			
Connector	Terminal	Connector		Terminal	
E7	22	RH	E24	6	Yes
		LH	E40	6	



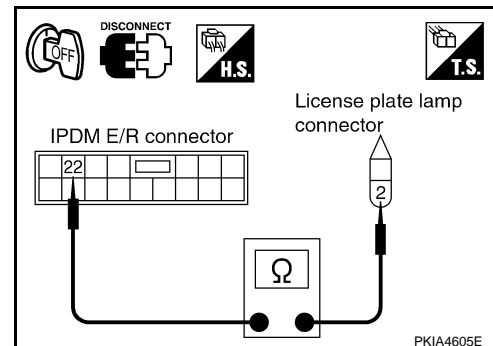
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

Terminals					Continuity
IPDM E/R		Rear combination lamp			
Connector	Terminal	Connector		Terminal	
E7	22	RH	T17	2	Yes
		LH	T9	2	



Terminals					Continuity
IPDM E/R		Licence plat lamp			
Connector	Terminal	Connector		Terminal	
E7	22	RH	T104	2	Yes
		LH	T102	2	



OK or NG

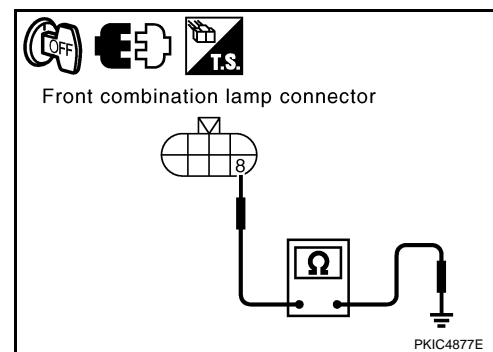
OK >> Replace IPDM E/R. Refer to [PG-23. "Removal and Installation of IPDM E/R"](#).

NG >> Repair harness or connector.

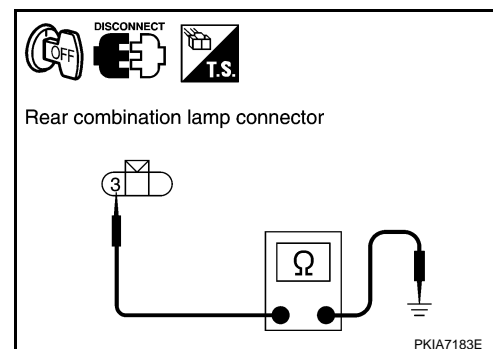
9.CHECK GROUND

1. Check continuity between front combination lamp, rear combination lamp and license plate lamp harness connector and ground.

Front combination lamp connector		Terminal	Ground	Continuity
RH	LH			
E24	E40	8		Yes



Rear combination lamp connector		Terminal	Ground	Continuity
RH	LH			
T17	T9	3		Yes



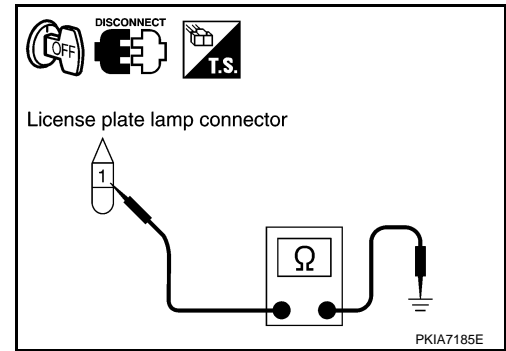
PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

License plate lamp connector		Terminal	Ground	Continuity
RH	T104	1		Yes
LH	T102			

OK or NG

- OK >> Check bulb.
NG >> Repair harness or connector.



Parking, Side Marker, License Plate and Tail Lamps Do Not Turn OFF (After Approx. 10 Minutes)

INFOID:000000004655920

1. CHECK IPDM E/R

- Turn ignition switch ON. Place combination switch (lighting switch) in the ON position. Turn ignition switch OFF.
- Make sure parking, license plate, and tail lamps turn OFF after approximately 10 minutes.

OK or NG

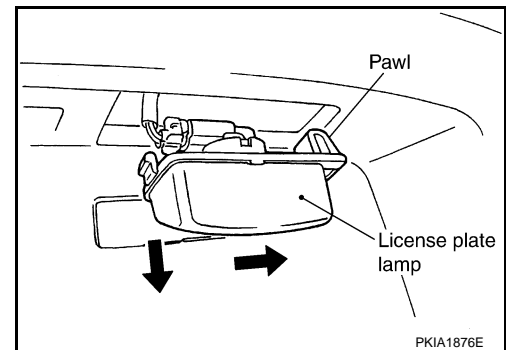
- OK >> INSPECTION END.
NG >> Ignition relay malfunction. Refer to [PG-17, "Function of Detecting Ignition Relay Malfunction"](#).

License Plate Lamp

INFOID:000000004655921

BULB REPLACEMENT, REMOVAL AND INSTALLATION

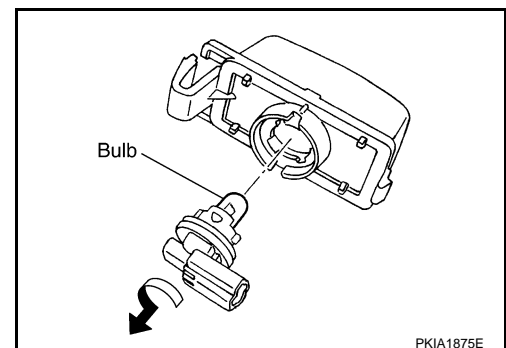
- While pressing license plate lamp to rightward, pull left side of it and remove.
- Disconnect license plate lamp connector.



- Turn bulb socket counterclockwise and unlock it.
- Remove bulb from it's socket.

License plate lamp : 12V - 5W

- Installation is the reverse order of removal.



Front Parking Lamp

INFOID:000000004655922

BULB REPLACEMENT

Refer to [LT-27, "Bulb Replacement"](#).

REMOVAL AND INSTALLATION

Refer to [LT-28, "Removal and Installation"](#).

PARKING, LICENSE PLATE AND TAIL LAMPS

< SERVICE INFORMATION >

Tail Lamp

INFOID:000000004655923

BULB REPLACEMENT

Refer to [LT-117, "Bulb Replacement"](#).

REMOVAL AND INSTALLATION

Refer to [LT-117, "Removal and Installation"](#).

REAR COMBINATION LAMP

< SERVICE INFORMATION >

REAR COMBINATION LAMP

Bulb Replacement

INFOID:000000004655924

REAR FENDER SIDE (STOP & TAIL LAMP, REAR SIDE MARKER LAMP)

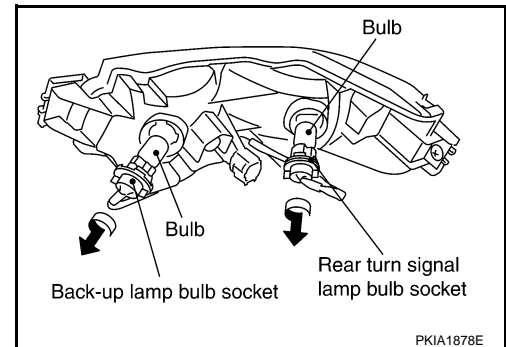
1. Remove rear combination lamp. Refer to [LT-117, "Removal and Installation"](#).
2. Replacement integral with rear combination lamp (rear fender side).

Stop/tail lamp : LED

Rear side marker lamp : LED

REAR BUMPER SIDE (BACK-UP LAMP BULB, REAR TURN SIGNAL LAMP BULB)

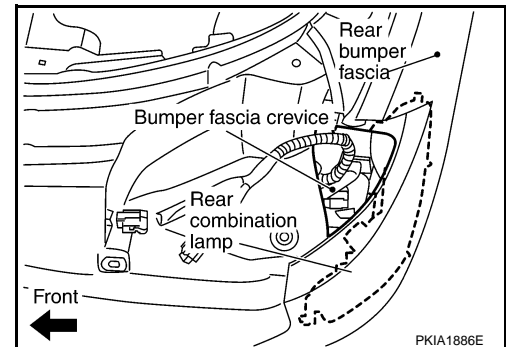
1. Remove rear combination lamp. Refer to [LT-117, "Removal and Installation"](#)
2. Turn bulb socket counterclockwise and unlock it through bumper fascia crevice.



3. Remove bulb.
4. Installation is the reverse order of removal.

Rear turn signal lamp (rear bumper side) : 12 V - 21 W (amber)

Back-up lamp (rear bumper side) : 12 V - 21 W



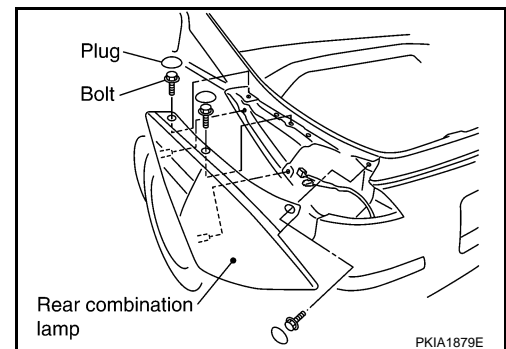
Removal and Installation

INFOID:000000004655925

REMOVAL

Rear Fender Side

1. Remove plugs and remove rear combination lamp mounting bolts.
2. Pull rear combination lamp toward side of the vehicle and remove from the vehicle.
3. Disconnect rear combination lamp connector.

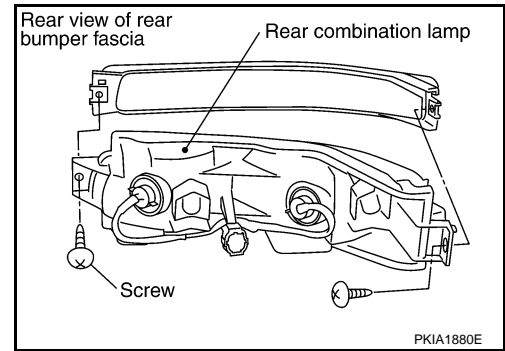


Rear Bumper Side

REAR COMBINATION LAMP

< SERVICE INFORMATION >

1. Remove rear bumper fascia. Refer to [EI-13](#).
2. Disconnect rear combination lamp connector.
3. Remove rear combination lamp mounting screws.
4. Remove rear combination lamp from rear bumper fascia.



INSTALLATION

Installation is the reverse order of removal. Be careful of the following:

Rear combination lamp (Rear fender side) mounting bolt  : 5.5 N·m (0.56 kg-m, 49 in-lb)

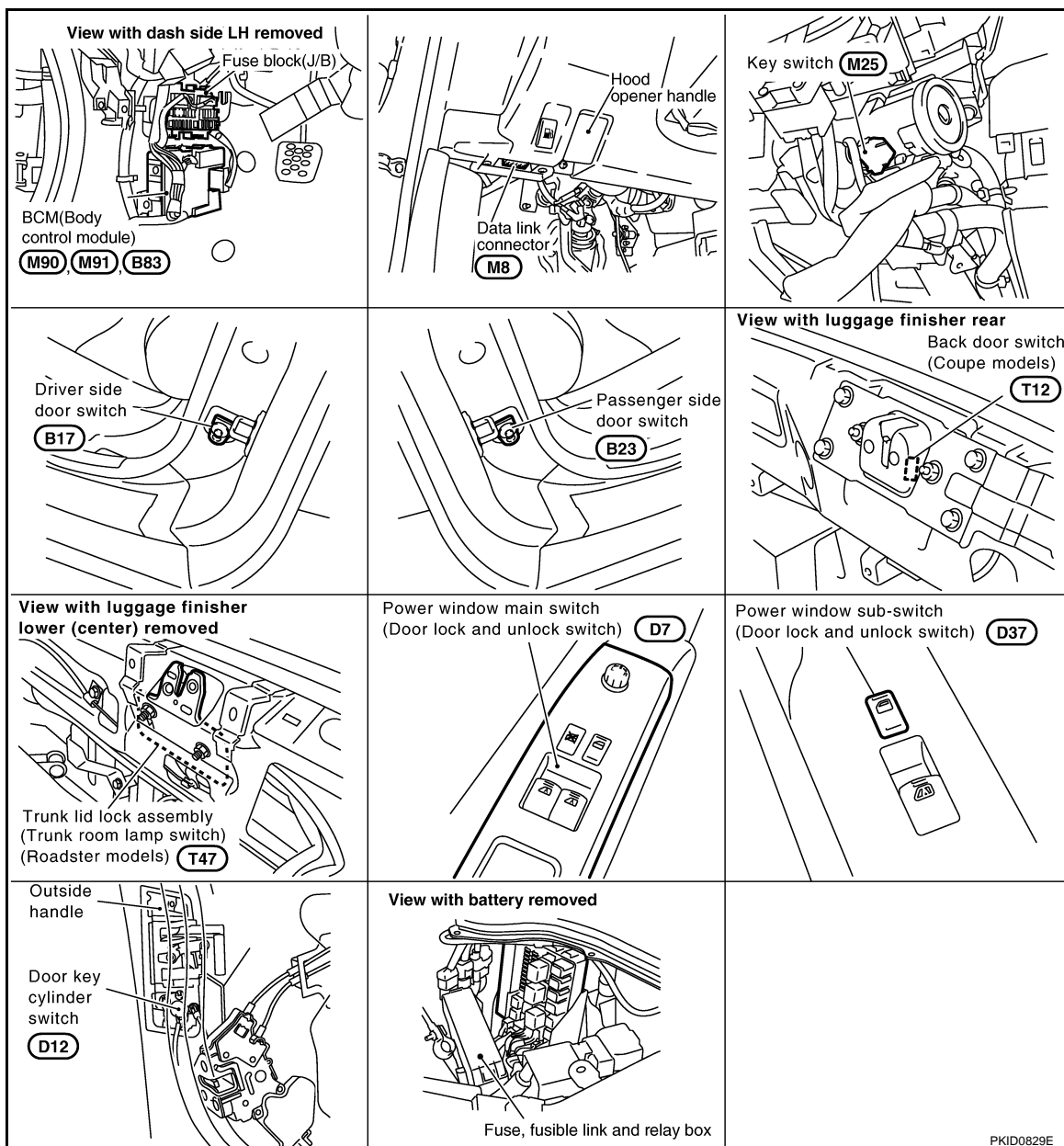
INTERIOR ROOM LAMP

< SERVICE INFORMATION >

INTERIOR ROOM LAMP

Component Parts and Harness Connector Location

INFOID:000000004655926



System Description

INFOID:000000004655927

When the map lamp switch is in the DOOR position, map lamp ON/OFF is controlled by timer according to signals from switches including key switch, door switch driver side and assist side, unlock and lock signal from key fob, door lock and unlock switch, key cylinder lock and unlock switch, ignition switch.

When the map lamp turns ON, there is a gradual brightening over 1 second. When map lamp turns OFF, there is a gradual dimming over 1 second.

Map lamp timer is controlled by BCM (body control module).

Map lamp timer control settings can be changed with CONSULT-III.

Ignition key hole illumination turns ON at time when driver door is opened (door switch ON) or removed key fob from key cylinder. Illumination turns OFF when driver door is closed (door switch OFF).

POWER SUPPLY AND GROUND

Power is supplied at all times

- through 10A fuse [No.21, located in fuse block (J/B)]
- to key switch terminal 2,

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

- through 10A fuse [No.18, located in fuse block (J/B)]
- to BCM terminal 42,
- through 40A fusible link (letter F, located in fuse, fusible link and relay box)
- to BCM terminal 55.

When key is removed from ignition key cylinder, power is interrupted

- through key switch terminal 1
- to BCM terminal 37.

With ignition switch in ON or START position, power is supplied

- through 10A fuse [No.1, located in fuse block (J/B)]
- to BCM terminal 38.

When map lamp and vanity mirror lamp power is supplied at times

- through BCM terminal 41
- to ignition key hole illumination terminal1
- to map lamp terminal 3 (Coupe models)
- to map lamp terminal 2 (Roadster models)
- to luggage room lamp terminal 1 (Coupe models)
- to trunk room lamp terminal 1 (Roadster models) and
- to vanity mirror lamp LH and RH terminals 1.

Ground is supplied

- to BCM terminal 52
- through grounds M30 and M66.

When driver side door is opened, ground is supplied

- through case ground of driver side door switch
- to BCM terminal 62.

When passenger side door is opened, ground is supplied

- through case ground of passenger side door switch
- to BCM terminal 12.

When back door is opened, ground is supplied (Coupe models)

- through grounds B5, B6, D105 and T14
- to back door switch terminal 3
- through back door switch terminal 1
- to BCM terminal 58.

When trunk lid is opened, ground is supplied (Roadster models)

- through grounds B5, B6 and T14
- to trunk lid lock assembly (trunk room lamp switch) terminal 1
- through trunk lid lock assembly (trunk room lamp switch) terminal 3
- to BCM terminal 57.

When the driver side door or passenger side door is unlocked by door lock and unlock switch, The BCM receives unlock signal with power window serial link

- through grounds M30 and M66
- to power window main switch (door lock and unlock switch) terminal 15 or power window sub switch (door lock and unlock switch) terminal 11
- through power window main switch (door lock and unlock switch) terminal 12 and power window sub switch (door lock and unlock switch) terminal 16
- to BCM terminal 22.

When the driver side door is unlocked by door key cylinder switch, The BCM receives information by communicating with power window main switch

- through grounds M30 and M66
- to door key cylinder switch terminal 2
- through door key cylinder switch terminal 1
- to power window main (door lock and unlock switch) switch terminal 7
- through power window main switch (door lock and unlock switch) terminal 12
- to BCM terminal 22.

When a signal, or combination of signals is received by BCM, ground is supplied

- through BCM terminal 48
- to map lamp terminal 2 (Coupe models)
- to map lamp terminal 3 (Roadster models).

With power and ground are supplied, map lamp illuminates.

SWITCH OPERATION

When map lamp switch is ON, ground is supplied

- to map lamp terminal 1 (Coupe models)

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

- to map lamp terminal 1 (Roadster models)
- through grounds M30 and M66.

And power is supplied

- through BCM terminal 41
- to ignition key hole illumination terminal 1
- to map lamp terminal 3 (Coupe models)
- to map lamp terminal 2 (Roadster models).

When vanity mirror lamp LH and RH is ON, ground is supplied

- to vanity mirror lamp LH and RH terminals 2
- through grounds M30 and M66.

And power is supplied

- through BCM terminal 41
- to vanity mirror lamp terminal 1.

MAP LAMP TIMER OPERATION

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

In addition, when map lamp turns ON or OFF there is gradual brightening or dimming over 1 second.

Power is supplied at all times

- to 10A fuse [No. 21 located in fuse block (J/B)]
- through key switch terminal 2.

When all doors are closed (all door switches OFF) and key is removed from key cylinder (key switch OFF), power will not be supplied to BCM terminal 37.

Ground is supplied

- through BCM terminal 22
- to power window main switch (door lock and unlock switch) terminal 12.

At this time, BCM detects that driver door is unlocked. It determines that map lamp timer operation conditions are met, and turns map lamp ON for 30 seconds.

When all doors are closed (all door switches OFF) and key is in key cylinder (key switch ON),

Power is supplied

- through key switch terminal 1
- to BCM terminal 37.

When the key is removed from key switch (key switch OFF), power supply to BCM terminal 37 is terminated. BCM detects that key has been removed. It determines that map lamp timer conditions are met, and turns map lamp ON for 30 seconds.

When driver door opens → closes, and key is not inserted in key switch (key switch OFF), BCM terminal 62 changes between 0V (door open) → 5V (door closed). BCM determines that conditions for spot lamp operation are met and turns interior lamp ON for 30 seconds.

Timer control is canceled under the following conditions.

- Driver door is locked (When locked key fob or power window main switch (door lock and unlock switch, door key cylinder switch).
- Driver door is opened (driver door switch turns ON).
- Ignition switch ON.

INTERIOR LAMP BATTERY SAVER CONTROL

If the room lamp remains illuminated by door switch open signal, or if room lamp switch is in the ON position for more than 30 minutes after the ignition switch is turned to the OFF position, BCM will automatically turn off map lamp, luggage room lamp (Coupe models), trunk room lamp (Roadster models) and vanity mirror lamp.

After lamps turn OFF by battery saver system, the lamps illuminate again when

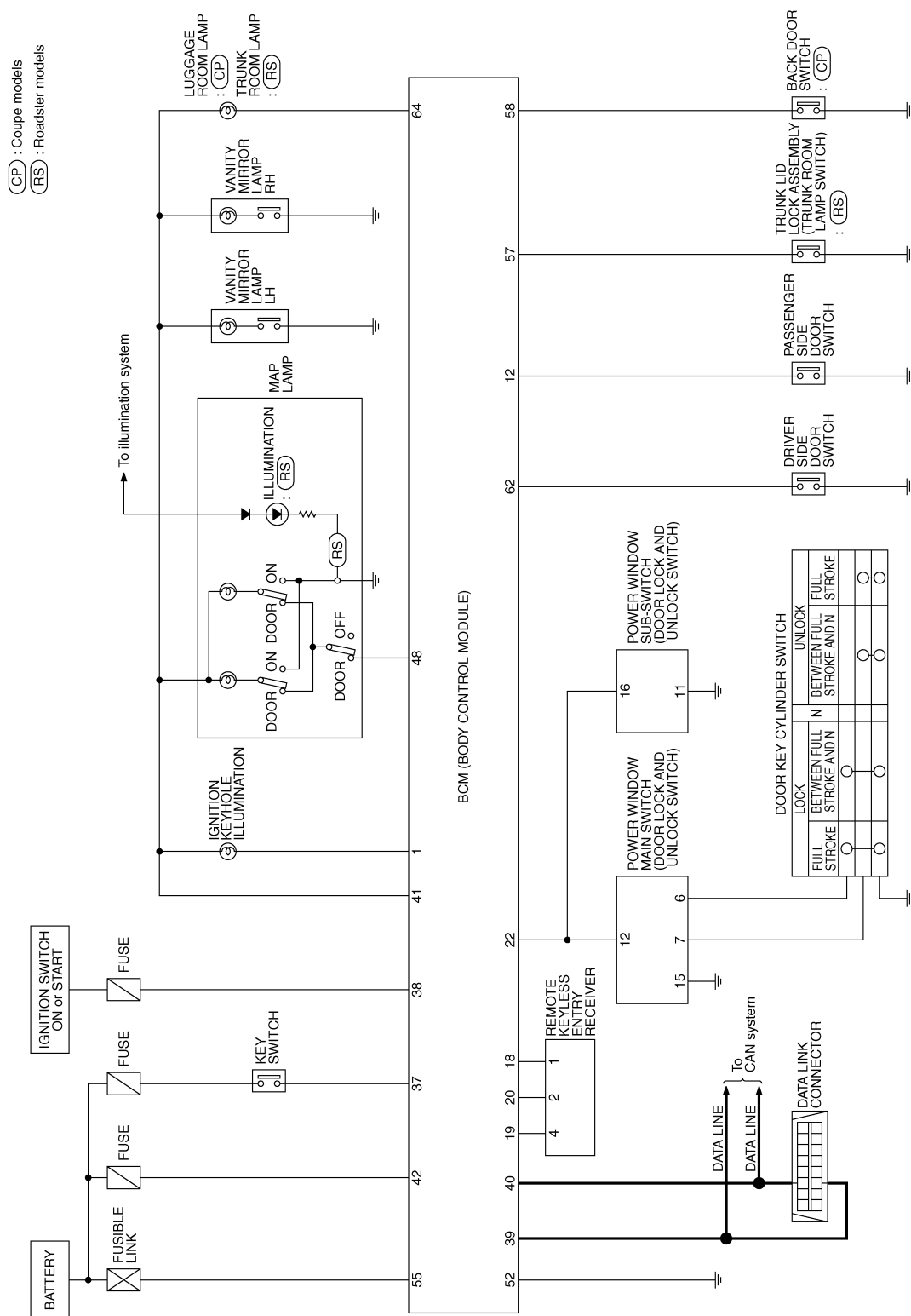
- signal from key fob, door lock and unlock switch, or key cylinder is locked or unlocked,
- door is opened or closed,
- key is removed from ignition key cylinder or inserted in ignition key cylinder.

Interior lamp battery saver control period can be changed by the function setting of CONSULT-III.

A
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Schematic

INFOID:0000000004655928

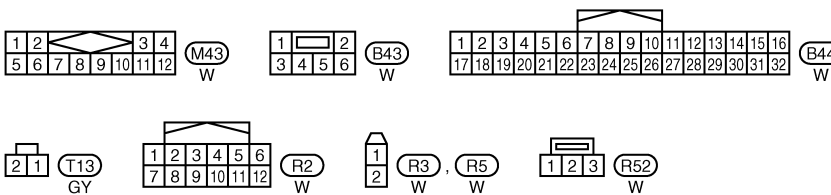
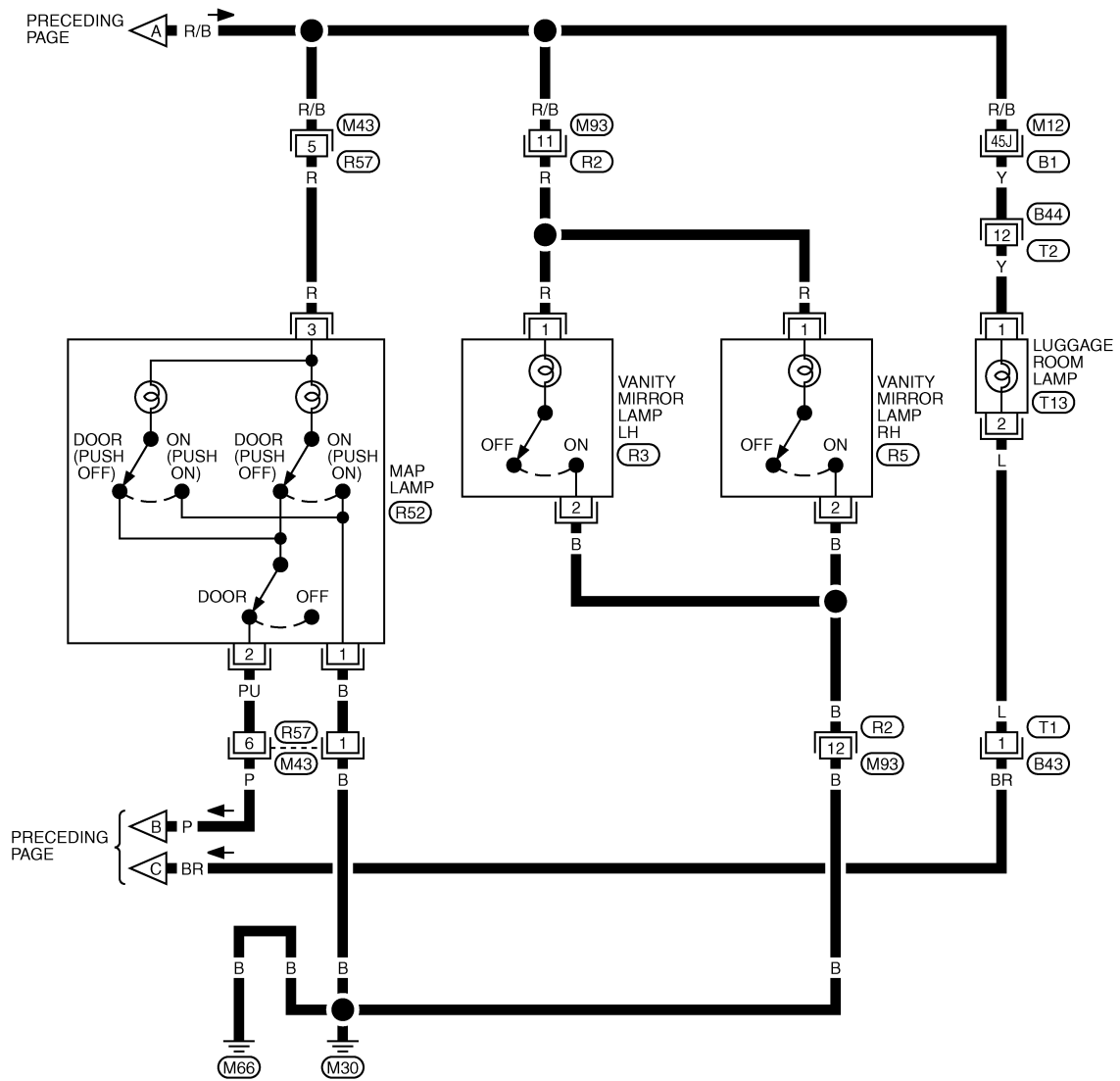


TKWT5763E

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

LT-ROOM/L-02



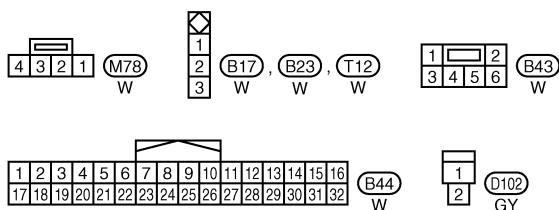
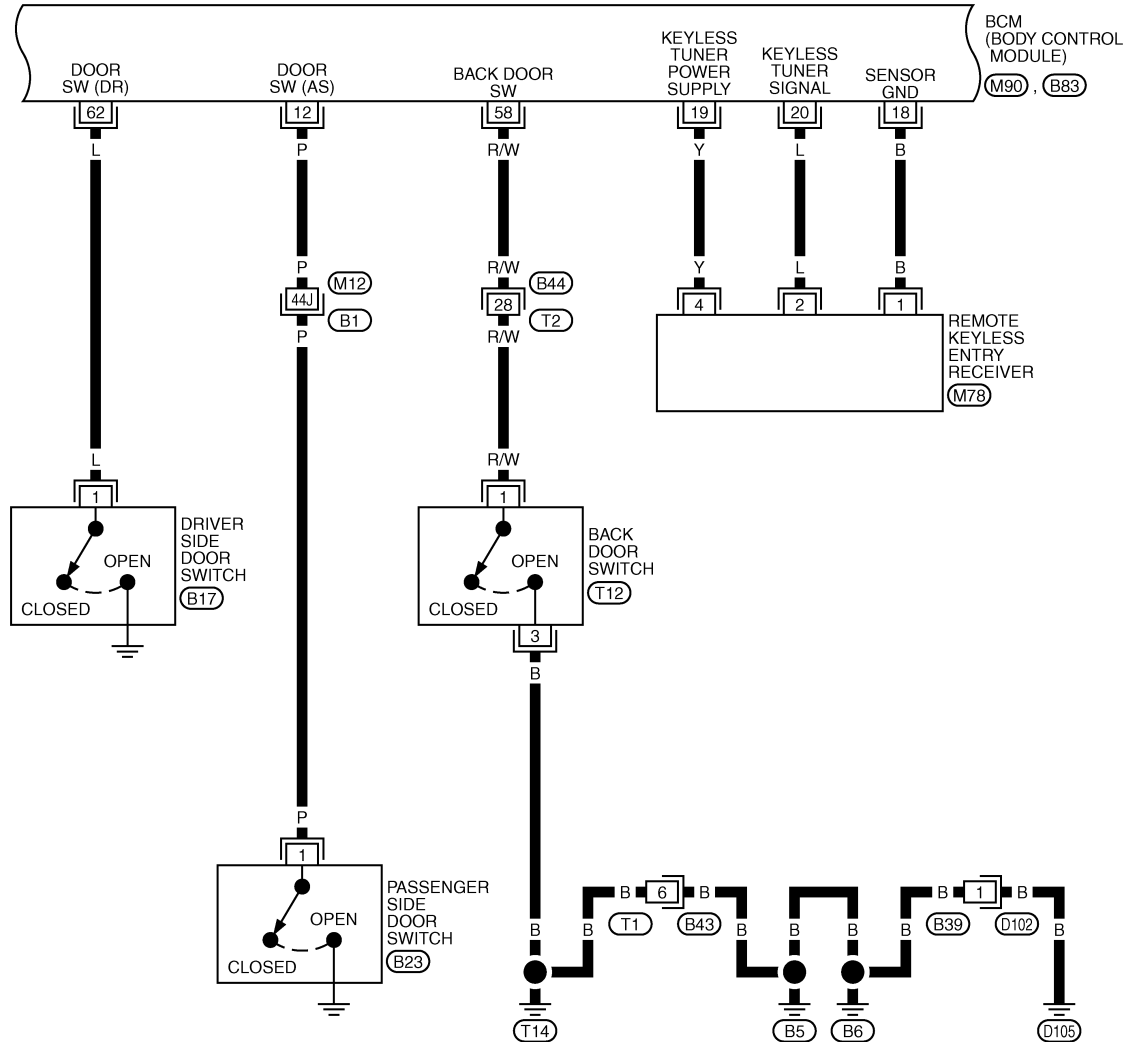
REFER TO THE FOLLOWING.
(B1) -SUPER MULTIPLE
JUNCTION (SMJ)

TKWT5589E

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

LT-ROOM/L-03



REFER TO THE FOLLOWING.

(B1) -SUPER MULTIPLE JUNCTION (SMJ)

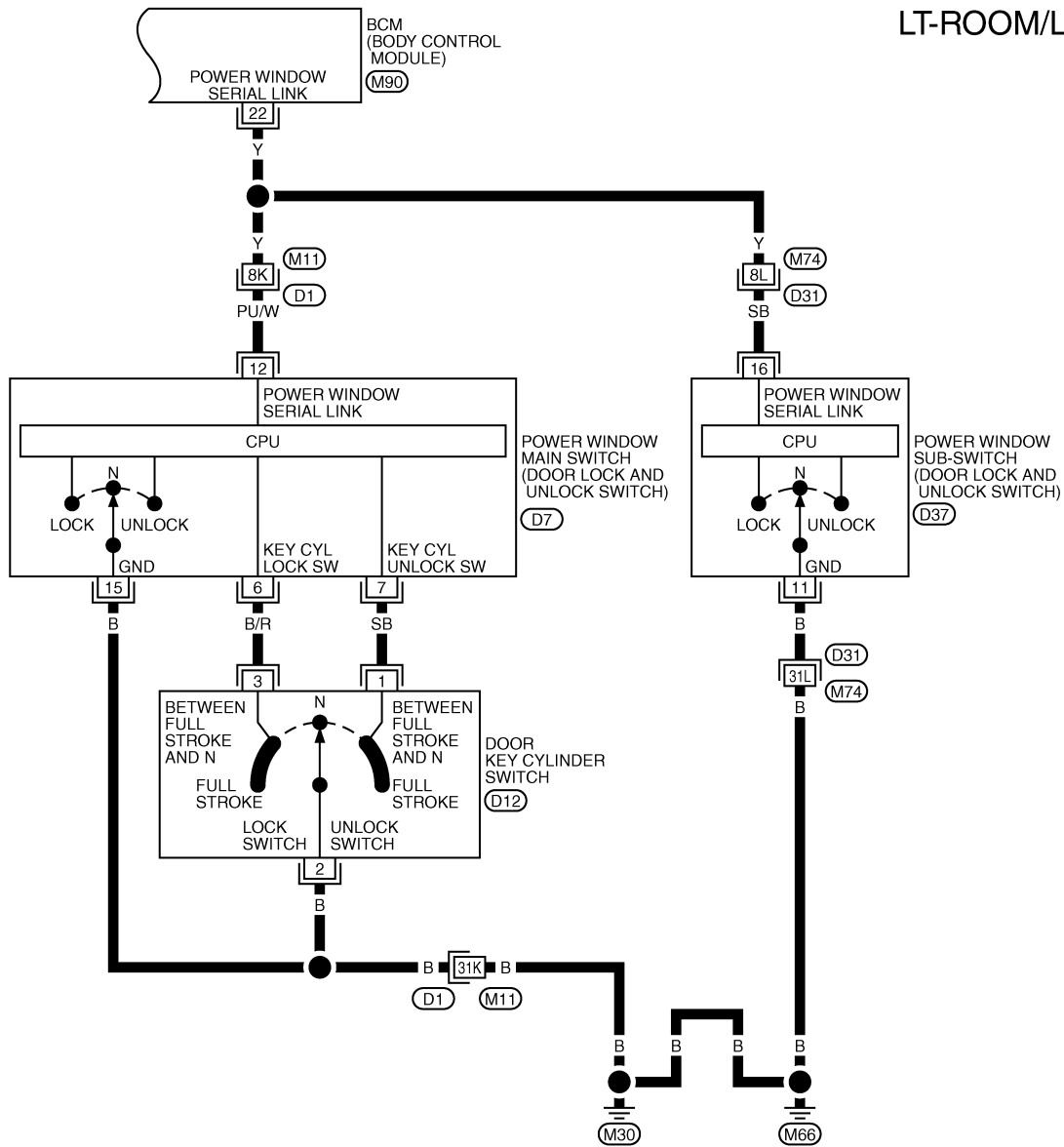
(M90), (B83) -ELECTRICAL UNITS

TKWT4052E

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

LT-ROOM/L-04



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

(D7), (D37)
W W

3 2 1
BR

REFER TO THE FOLLOWING.

(D1), (D31) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

TKWT4053E

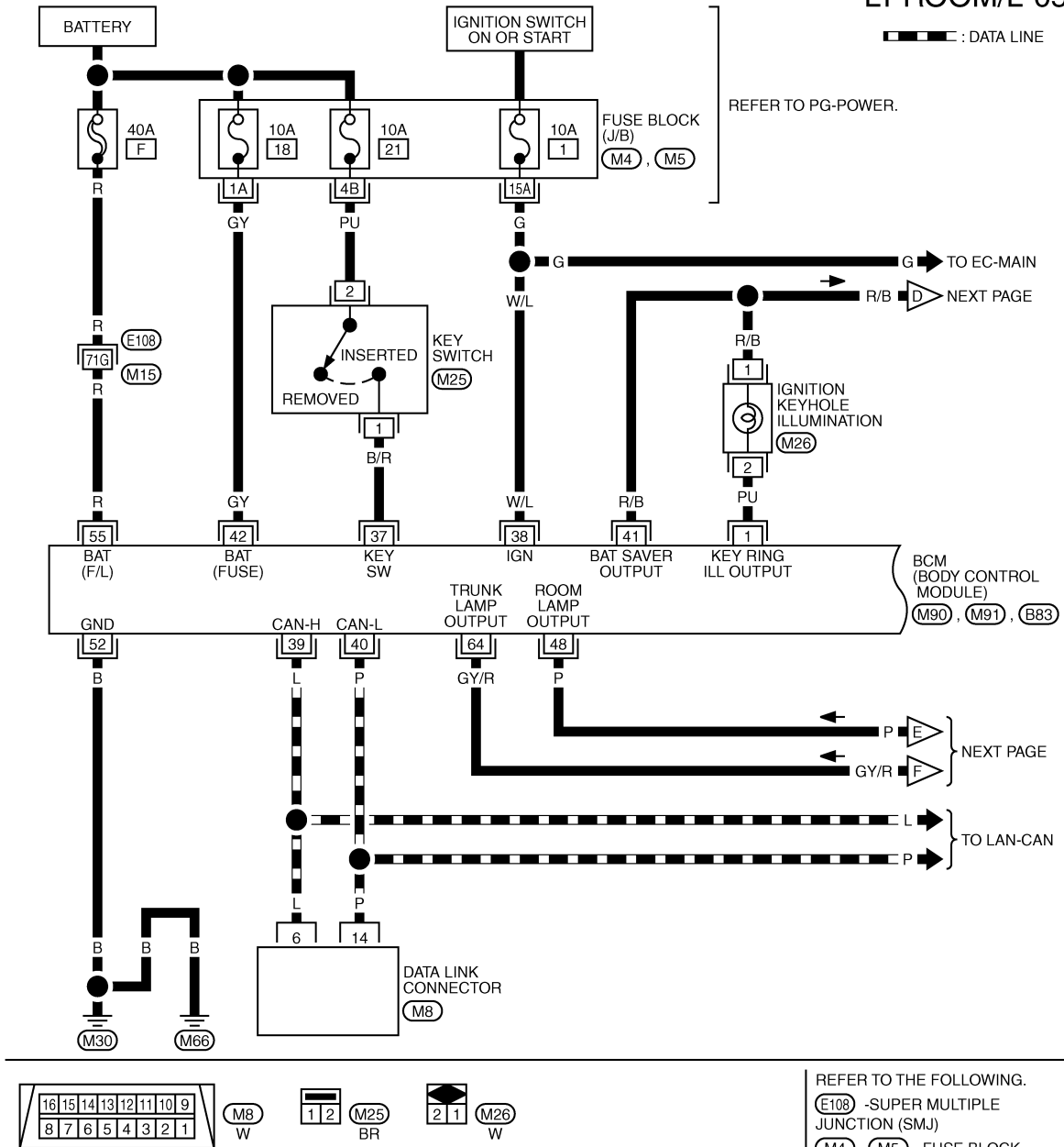
INTERIOR ROOM LAMP

< SERVICE INFORMATION >

ROADSTER MODELS

LT-ROOM/L-05

— : DATA LINE

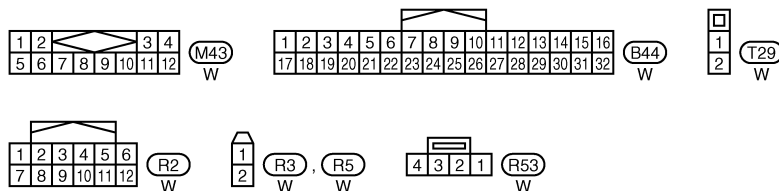


TKWT5765E

< SERVICE INFORMATION >

The diagram illustrates the electrical circuit for the interior lighting system. It features several components and their interconnections:

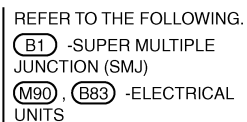
- Door Illumination:** A switch labeled "DOOR (PUSH OFF)" controls two "ON (PUSH ON)" switches, which in turn control two "DOOR (PUSH OFF)" switches. The circuit includes a fuse (F) and a relay (R).
- Map Lamp:** A single switch labeled "MAP LAMP" controls the lamp.
- Vanity Mirror Lamps:** Two switches labeled "VANITY MIRROR LAMP LH" and "VANITY MIRROR LAMP RH" control their respective lamps.
- Trunk Room Lamp:** A switch labeled "TRUNK ROOM LAMP" controls the lamp.
- Wiring Details:** The diagram shows various wires (e.g., R/B, Y, B, P, GY/R) and connectors (e.g., M12, B1, M93, R2, M66, M30). It also indicates connections to other pages ("PRECEDING PAGE") and a ground connection ("TO LT-ILL").



TKWT5766E

< SERVICE INFORMATION >

A
B
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D
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O
P



Revision: 2009 October

< SERVICE INFORMATION >

LT-ROOM/L

BCM (BODY CONTROL MODULE) (M90)

POWER WINDOW SERIAL LINK

22

Y

Y

8K (M11)

D1

PU/W

12

POWER WINDOW SERIAL LINK

CPU

LOCK

UNLOCK

N

GND

15

B

6

B/R

7

SB

1

3

BETWEEN FULL STROKE AND N

FULL STROKE

LOCK SWITCH

UNLOCK SWITCH

2

B

31K (D1)

M11

B

B

B

B

M30

M66

POWER WINDOW MAIN SWITCH (DOOR LOCK AND UNLOCK SWITCH) (D7)

POWER WINDOW SUB-SWITCH (DOOR LOCK AND UNLOCK SWITCH) (D37)

POWER WINDOW SERIAL LINK

CPU

LOCK

UNLOCK

N

GND

11

B

31L (D31)

M74

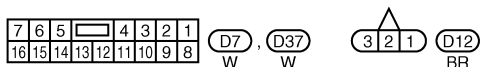
B

8L (M74)

D31

SB

16



REFER TO THE FOLLOWING.

(D1) , (D31) -SUPER MULTIPLE JUNCTION (SMJ)

(M90) -ELECTRICAL UNITS

TKWT4057E

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

Terminal and Reference Value for BCM

INFOID:000000004655930

Ter- minal No.	Wire color	Signal name	Measuring condition				Reference value
			Ignition switch	Operation or condition			
1	PU	Ignition keyhole illumination signal	OFF	Door is locked. (SW OFF)			Battery voltage
				Door is unlocked. (SW ON)			Approx. 0 V
12	P	Front door switch AS signal	OFF	Front door switch AS	ON (open)	Approx. 0 V	
					OFF (closed)	Battery voltage	
22	Y	Power window switch serial link	ON	—			<div><div>(V)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></di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*1: Roadster models, *2: Coupe models

How to Proceed with Trouble Diagnosis

INFOID:000000004655931

1. Confirm the symptom or customer complaint.
2. Understand operation description and function description. Refer to [LT-119. "System Description"](#).
3. Perform preliminary check. Refer to [LT-132. "Preliminary Check"](#).
4. Check symptom and repair or replace the cause of malfunction.
5. Does interior room lamp operate normally? If YES, GO TO 6. If NO, GO TO 4.
6. INSPECTION END

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

Preliminary Check

INFOID:000000004655932

CHECK POWER SUPPLY AND GROUND CIRCUIT

1.CHECK FUSES AND FUSIBLE LINK

Check for blown fuses and fusible link.

Unit	Power source	Fuse and fusible link No.
BCM	Battery	F
		18
		21
	Ignition switch ON or START position	1

Refer to [LT-123, "Wiring Diagram - ROOM/L -"](#).

OK or NG

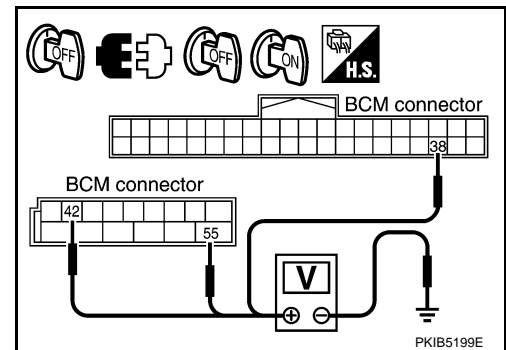
OK >> GO TO 2.

NG >> If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse. Refer to [PG-4](#).

2.CHECK POWER SUPPLY CIRCUIT

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

Terminals		Ignition switch position	
(+)		(-)	
BCM connector	Terminal	OFF	ON
M90	38	Approx. 0 V	Battery voltage
M91	42	Battery voltage	Battery voltage
	55	Battery voltage	Battery voltage



OK or NG

OK >> GO TO 3.

NG >> Repair harness or connector.

3.CHECK GROUND CIRCUIT

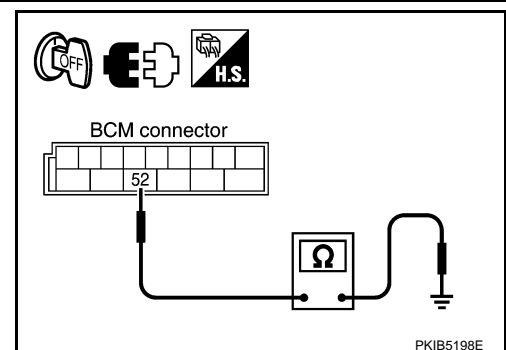
Check continuity between BCM and ground.

BCM connector	Terminal	Ground	Continuity
M91	52	Ground	Yes

OK or NG

OK >> INSPECTION END

NG >> Repair harness or connector.



CONSULT-III Function (BCM)

INFOID:000000004655933

CONSULT-III can display each diagnostic item using the diagnostic test mode shown following.

BCM diagnosis part	Diagnosis mode	Description
INT LAMP	WORK SUPPORT	Changes the setting for each function.
	DATA MONITOR	Displays BCM input data in real time.
	ACTIVE TEST	Operation of electrical loads can be checked by sending driving signal to them.

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

WORK SUPPORT

Display Item List

Item	Description	CONSULT-III
SET I/L D-UNLCK INTCON	The 30 seconds glowing function interior room lamps and ignition keyhole illumination can be selected when driver door is released (unlocked).	ON/OFF
ROOM LAMP ON TIME SET	The time in order to escalate illumination can be adjusted when interior room lamps and ignition keyhole illumination is turned on.	MODE 1 – 7
ROOM LAMP OFF TIME SET	The time in order to diminish illumination can be adjusted when interior room lamps and ignition keyhole illumination is turned off.	MODE 1 – 7

Reference between “MODE” and “TIME” for “TURN ON/OFF”

MODE	1	2	3	4	5	6	7
Time (sec.)	0.5	1	2	3	4	5	0

DATA MONITOR

Display Item List

Monitor item	Contents
IGN ON SW “ON/OFF”	Displays “IGN position (ON)/OFF, ACC position (OFF)” judged from ignition switch signal.
KEY ON SW “ON/OFF”	Displays “Key inserted (ON)/key removed (OFF)” status judged from key switch signal.
DOOR SW - DR “ON/OFF”	Displays status of driver door as judged from driver door switch signal. (Door is open: ON/Door is closed: OFF)
DOOR SW - AS “ON/OFF”	Displays “Door open (ON)/Door closed (OFF)” status, determined from passenger door switch signal.
DOOR SW - RR ^{NOTE} “OFF”	—
DOOR SW - RL ^{NOTE} “OFF”	—
BACK DOOR SW “ON/OFF”	<ul style="list-style-type: none"> Displays status of back door as judged from back door switch signal. (Coupe models) Displays status of rear trunk hood as judged from trunk lamp switch signal. (Roadster models)
KEY CYL LK - SW “ON/OFF”	Displays “Door locked (ON) status, determined from key cylinder lock switch in driver door.
KEY CYL UN - SW “ON/OFF”	Displays “Door unlocked (OFF) status, determined from key cylinder lock switch in driver door.
CDL LOCK SW “ON/OFF”	Displays “Door locked (ON)/Door unlocked (OFF) status, determined from locking detection switch in driver door.
CDL UNLOCK SW “ON/OFF”	Displays “Door unlocked (OFF)” status, determined from locking detection switch in passenger door.
KEYLESS LOCK “ON/OFF”	Displays “Locked (ON)/Other (OFF)” status, determined from lock signal.
KEYLESS UNLOCK “ON/OFF”	Displays “Unlocked (ON)/Other (OFF)” status, determined from unlock signal.

NOTE:

This item is displayed, but cannot be monitored.

ACTIVE TEST

Display Item List

Test item	Description
INT LAMP	Map lamp can be operated by any ON-OFF operations.
IGN ILLUM ^{NOTE}	—
STEM LAMP TEST ^{NOTE}	—
LUGGAGE LAMP TEST	<ul style="list-style-type: none"> Luggage room lamp can be operated by any ON-OFF operations. (Coupe models) Trunk room lamp can be operated by any ON-OFF operations. (Roadster models)

NOTE:

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

This item is displayed, but cannot be tested.

Map Lamp Control Does Not Operate (Coupe models)

INFOID:000000004655934

1.CHECK BETWEEN EACH SWITCH AND BCM

1. Select "INT LAMP" of BCM data monitor item.
2. Make sure switches listed in display item list turn ON-OFF linked with switch operation. Refer to [LT-132, "CONSULT-III Function \(BCM\)"](#) for switches and their functions.

OK or NG

- OK >> GO TO 2.
NG >> Inspect malfunctioning switch system.

2.CHECK BETWEEN BCM AND MAP LAMP

1. Select "INT LAMP" of BCM active test item.
2. With operating the test item, check the map lamp operation (When map lamp switch is in DOOR position).

Map lamp should operate.

OK or NG

- OK >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).
NG >> GO TO 3.

3.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between map lamp harness connector and ground.

Terminal			Voltage (Approx.)
(+)		(-)	
Map lamp connector	Terminal		
R52	3	Ground	Battery voltage

OK or NG

- OK >> GO TO 6.
NG >> GO TO 4.

4.CHECK MAP LAMP CIRCUIT

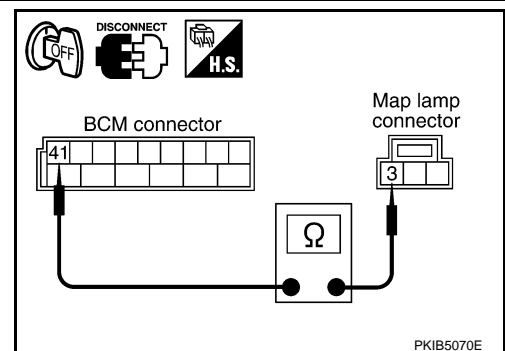
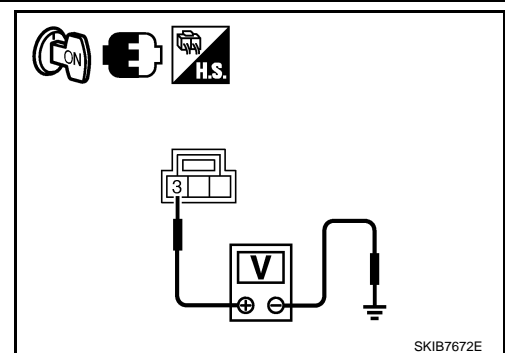
1. Turn ignition switch OFF.
2. Disconnect BCM connector and map lamp connector.
3. Check continuity between BCM harness connector and map lamp harness connector.

Terminals				Continuity
BCM		Map lamp		
Connector	Terminal	Connector	Terminal	
M91	41	R52	3	Yes

OK or NO

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

5.CHECK SHORT CIRCUIT



INTERIOR ROOM LAMP

< SERVICE INFORMATION >

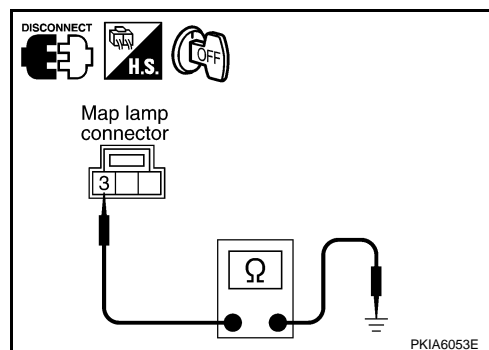
Check continuity between map lamp harness connector and ground.

Map lamp connector	Terminal	Ground	Continuity
R52	3		No

OK or NG

OK >> Replace BCM if map lamp does not work after setting the connector again. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> Repair harness or connector.



6.CHECK MAP LAMP

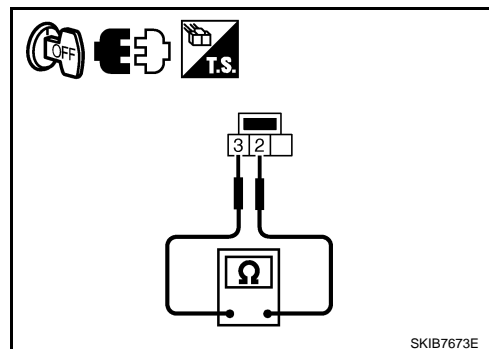
1. Turn ignition switch OFF.
2. Disconnect map lamp connector.
3. Check continuity between map lamp.

Terminal	Condition	Continuity
Map lamp		
3	Map lamp switch is DOOR.	Yes
2	Map lamp switch is OFF.	No

OK or NG

OK >> GO TO 7.

NG >> Replace map lamp.



7.CHECK MAP LAMP CIRCUIT

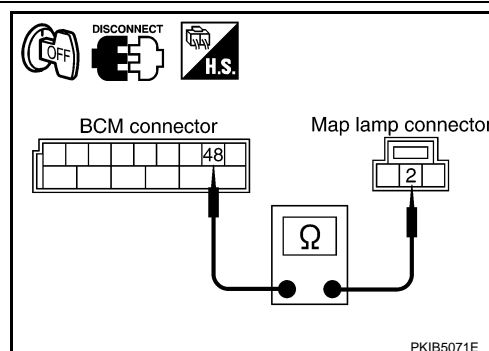
1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and map lamp harness connector.

Terminals				Continuity
BCM		Map lamp		
Connector	Terminal	Connector	Terminal	
M91	48	R52	2	Yes

OK or NO

OK >> Replace BCM if map lamp does not work after setting the connector again. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> Repair harness or connector.



Map Lamp Control Does Not Operate (Roadster models)

INFOID:000000004655935

1.CHECK BETWEEN EACH SWITCH AND BCM

1. Select "INT LAMP" of BCM data monitor item.
2. Make sure switches listed in display item list turn ON-OFF linked with switch operation. Refer to [LT-132, "CONSULT-III Function \(BCM\)"](#) for switches and their functions.

OK or NG

OK >> GO TO 2.

NG >> Inspect malfunctioning switch system.

2.CHECK BETWEEN BCM AND MAP LAMP

1. Select "INT LAMP" of BCM active test item.
2. With operating the test item, check the map lamp operation (When map lamp switch is in DOOR position).

Map lamp should operate.

OK or NG

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

- OK >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).
 NG >> GO TO 3.

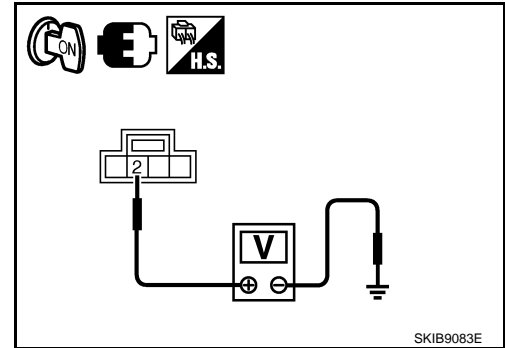
3.CHECK BETWEEN BCM AND MAP LAMP

1. Turn ignition switch ON.
2. Check voltage between map lamp harness connector and ground.

Terminal		Voltage (Approx.)
(+)	(-)	
Map lamp connector	Terminal	
R53	2	Battery voltage

OK or NG

- OK >> GO TO 6.
 NG >> GO TO 4.



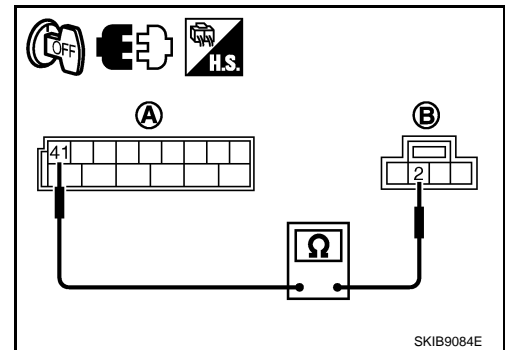
4.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch OFF.
2. Disconnect BCM connector and map lamp connector.
3. Check continuity between BCM harness connector (A) and map lamp harness connector (B).

Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
M91	41	R53	2	Yes

OK or NO

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



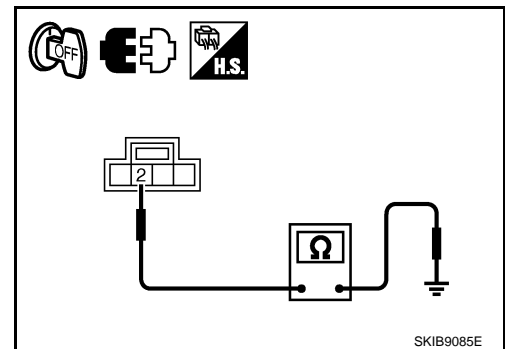
5.CHECK SHORT CIRCUIT

Check continuity between map lamp harness connector and ground.

Map lamp connector	Terminal	Ground	Continuity
R53	2		No

OK or NG

- OK >> Replace BCM if map lamp does not work after setting the connector again. Refer to [BCS-15, "Removal and Installation of BCM"](#).
 NG >> Repair harness or connector.



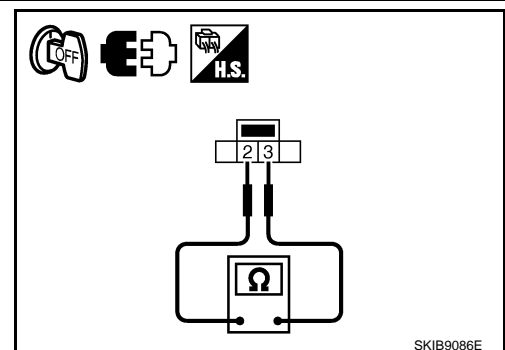
6.CHECK MAP LAMP

1. Turn ignition switch OFF.
2. Disconnect map lamp connector.
3. Check continuity between map lamp.

Terminal		Condition	Continuity
Map lamp			
3	2	Map lamp switch is DOOR.	Yes
		Map lamp switch is OFF.	No

OK or NG

- OK >> GO TO 7.



INTERIOR ROOM LAMP

< SERVICE INFORMATION >

NG >> Replace map lamp.

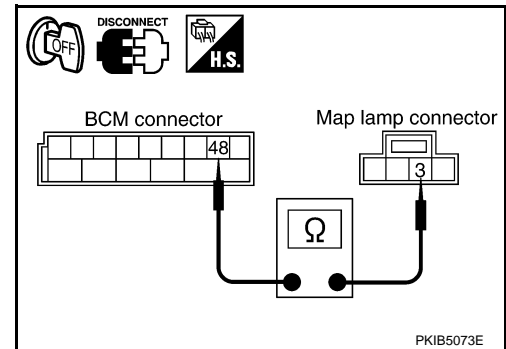
7.CHECK MAP LAMP CIRCUIT

1. Disconnect BCM connector.
2. Check continuity between BCM harness connector and map lamp harness connector.

Terminals				Continuity
BCM		Map lamp		
Connector	Terminal	Connector	Terminal	
M91	48	R53	3	Yes

OK or NO

- OK >> Replace BCM if map lamp does not work after setting the connector again. Refer to [BCS-15. "Removal and Installation of BCM"](#).
- NG >> Repair harness or connector.



Ignition Keyhole Illumination Does Not Illuminate

INFOID:000000004655936

1.CHECK BULB

Check bulb of lamp which does not operate.

OK or NG

- OK >> GO TO 2.
- NG >> Replace bulb.

2.CHECK BETWEEN EACH SWITCH AND BCM

1. Select "INT LAMP" of BCM data monitor item.
2. Make sure switches listed in display item list turn ON-OFF linked with switch operation. Refer to [LT-132. "CONSULT-III Function \(BCM\)"](#) for switches and their functions.

OK or NG

- OK >> GO TO 3.
- NG >> Inspect malfunctioning switch system.

3.CHECK POWER SUPPLY TO IGNITION KEY HOLE ILLUMINATION

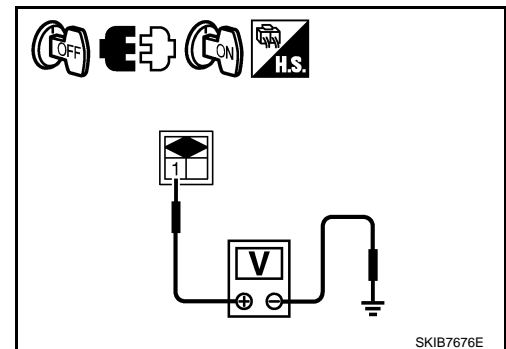
1. Turn ignition switch OFF.
2. Disconnect ignition key hole illumination connector.
3. Turn ignition switch ON.
4. Check voltage between ignition key hole illumination harness connector and ground.

Terminal			Voltage (Approx.)
(+) Terminal		(-)	
Ignition key hole illumination connector	Terminal		
M26	1	Ground	Battery voltage

OK or NG

- OK >> GO TO 5.
- NG >> GO TO 4.

4.CHECK POWER SUPPLY CIRCUIT FOR IGNITION KEY HOLE ILLUMINATION



INTERIOR ROOM LAMP

< SERVICE INFORMATION >

1. Turn ignition switch OFF.
2. Disconnect BCM connector and key hole illumination connector.
3. Check continuity between BCM harness connector (A) and ignition key hole illumination harness connector (B).

Terminals				Continuity
A		B		
Connector	Terminal	Connector	Terminal	
M91	41	M26	1	Yes

OK or NG

OK >> Replace BCM if ignition key hole illumination does not work after setting the connector again. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> Repair harness or connector.

5.CHECK GROUND CIRCUIT FOR IGNITION KEY HOLE ILLUMINATION

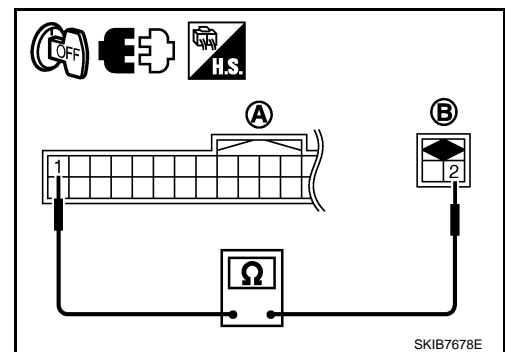
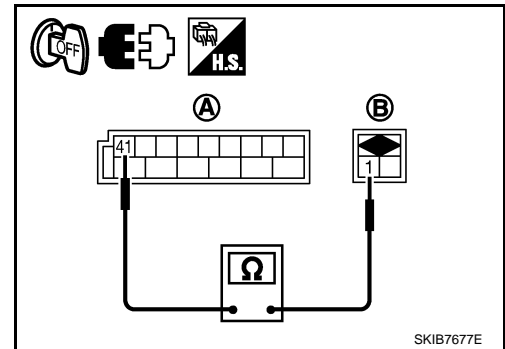
1. Turn ignition switch OFF.
2. Disconnect BCM connector and key hole illumination connector.
3. Check continuity between BCM harness connector (A) and ignition key hole illumination harness connector (B).

A		B		Continuity
Connector	Terminal	Connector	Terminal	
M90	1	M26	2	
M90	1	M26	2	Yes

OK or NG

OK >> Replace BCM if ignition key hole illumination does not work after setting the connector again. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> Repair harness or connector.



Luggage Room Lamp Does Not Illuminate (Coupe Models)

INFOID:000000004655937

1.CHECK BULB

Inspect bulb of luggage room lamp.

OK or NG

OK >> GO TO 2.

NG >> Replace bulb of luggage room lamp.

2.CHECK BETWEEN EACH SWITCH AND BCM

1. Select "LUGGAGE LAMP TEST" of BCM data monitor item.
2. Make sure switches listed in display item list turn ON-OFF linked with switch operation. Refer to [LT-132, "CONSULT-III Function \(BCM\)"](#) for switches and their functions.

OK or NG

OK >> GO TO 3.

NG >> Inspect malfunctioning switch system.

3.CHECK BETWEEN BCM AND LUGGAGE ROOM LAMP

1. Select "LUGGAGE LAMP TEST" of BCM active test item.
2. With operating the test item, check the luggage room lamp operation.

Luggage room lamp should operate.

OK or NG

OK >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> GO TO 4.

4.CHECK POWER SUPPLY CIRCUIT

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

1. Turn ignition switch ON.
2. Check voltage between luggage room lamp harness connector and ground.

Terminal			Voltage (Approx.)
(+)		(-)	
Luggage room lamp connector	Terminal		
T13	1	Ground	Battery voltage

OK or NG

- OK >> GO TO 7.
NG >> GO TO 5.

5.CHECK LUGGAGE ROOM LAMP CIRCUIT

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

Terminals				Continuity
BCM		Luggage room lamp		
Connector	Terminal	Connector	Terminal	
M91	41	T13	1	Yes

OK or NO

- OK >> GO TO 6.
NG >> Repair harness or connector.

6.CHECK SHORT CIRCUIT

Check continuity between luggage room lamp harness connector and ground.

Luggage room lamp connector	Terminal	Ground	Continuity
T13	1		No

OK or NG

- OK >> Replace BCM if luggage room lamp does not work after setting the connector again. Refer to [BCS-15. "Removal and Installation of BCM"](#).
NG >> Repair harness or connector.

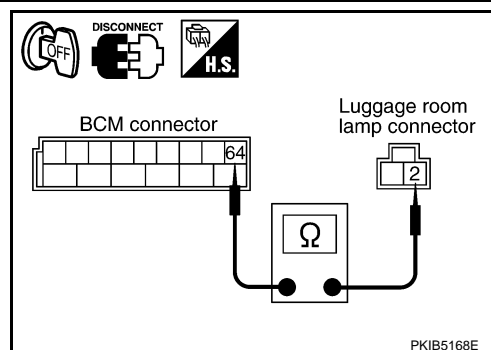
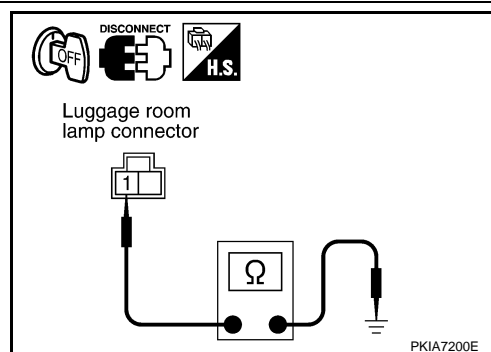
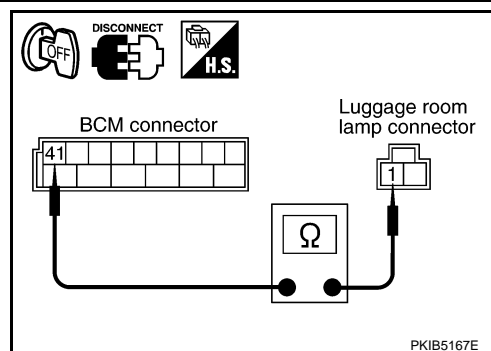
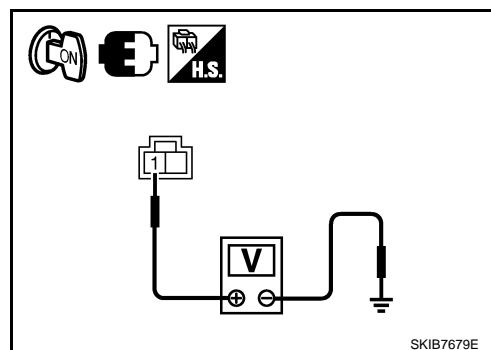
7.CHECK LUGGAGE ROOM LAMP CIRCUIT

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

Terminals				Continuity
BCM		Luggage room lamp		
Connector	Terminal	Connector	Terminal	
B83	64	T13	2	Yes

OK or NO

- OK >> Replace BCM if luggage room lamp does not work after setting the connector again. Refer to [BCS-15. "Removal and Installation of BCM"](#).



INTERIOR ROOM LAMP

< SERVICE INFORMATION >

NG >> Repair harness or connector.

Trunk Room Lamp Does Not Illuminate (Roadster Models)

INFOID:000000004655938

1.CHECK BULB

Inspect bulb of trunk room lamp.

OK or NG

OK >> GO TO 2.

NG >> Replace map lamp.

2.CHECK BETWEEN EACH SWITCH AND BCM

1. Select "LUGGAGE LAMP TEST" of BCM data monitor item.
2. Make sure switches listed in display item list turn ON-OFF linked with switch operation. Refer to [LT-132, "CONSULT-III Function \(BCM\)"](#) for switches and their functions.

OK or NG

OK >> GO TO 3.

NG >> Inspect malfunctioning switch system.

3.CHECK BETWEEN BCM AND TRUNK ROOM LAMP

1. Select "BCM" on CONSULT-III. Select "LUGGAGE LAMP TEST" active test.
2. With operating the test item, check the trunk room lamp operation.

Trunk room lamp should operate.

OK or NG

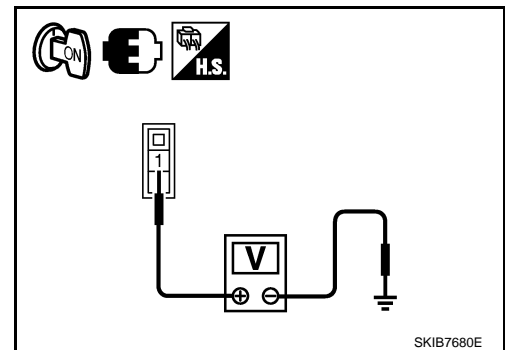
OK >> Replace BCM. Refer to [BCS-15, "Removal and Installation of BCM"](#).

NG >> GO TO 4.

4.CHECK POWER SUPPLY CIRCUIT

1. Turn ignition switch ON.
2. Check voltage between trunk room lamp harness connector and ground.

Terminal			Voltage (Approx.)
(+) Terminal		(-)	
Trunk room lamp connector	Terminal		
T29	1	Ground	Battery voltage



OK or NG

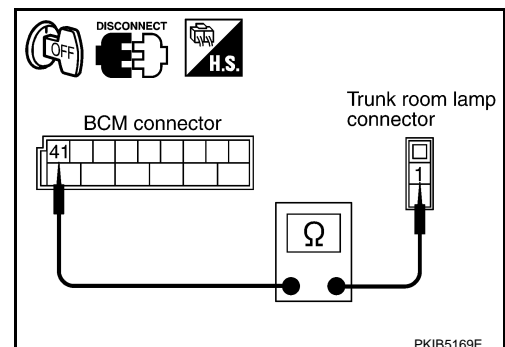
OK >> GO TO 7.

NG >> GO TO 5.

5.CHECK TRUNK ROOM LAMP CIRCUIT

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

Terminals				Continuity
BCM		Trunk room lamp		
Connector	Terminal	Connector	Terminal	
M91	41	T29	1	Yes



OK or NO

OK >> GO TO 6.

NG >> Repair harness or connector.

INTERIOR ROOM LAMP

< SERVICE INFORMATION >

6.CHECK SHORT CIRCUIT

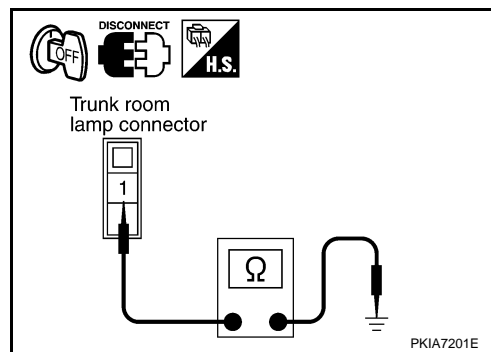
Check continuity between trunk room lamp harness connector and ground.

Trunk room lamp connector	Terminal	Ground	Continuity
T29	1		No

OK or NG

OK >> Replace BCM if trunk room lamp does not work after setting the connector again. Refer to [BCS-15. "Removal and Installation of BCM"](#).

NG >> Repair harness or connector.



7.CHECK TRUNK ROOM LAMP CIRCUIT

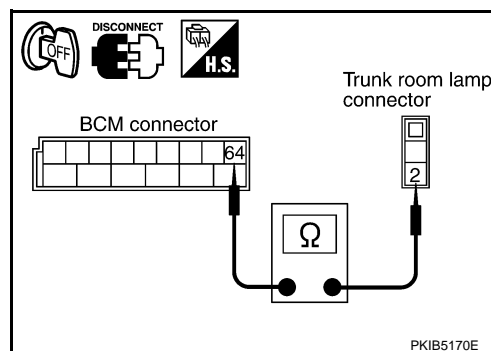
1. Turn ignition switch OFF.
2. Disconnect BCM connector.
3. Check continuity between BCM harness connector and trunk room lamp harness connector.

Terminals				Continuity
BCM		Trunk room lamp		
Connector	Terminal	Connector	Terminal	
B83	64	T29	2	Yes

OK or NO

OK >> Replace BCM if trunk room lamp does not work after setting the connector again. Refer to [BCS-15. "Removal and Installation of BCM"](#).

NG >> Repair harness or connector.



Bulb Replacement

INFOID:000000004655939

MAP LAMP

Coupe Models

1. Open driver and passenger window, and then disconnect battery cable from the negative terminal.

CAUTION:

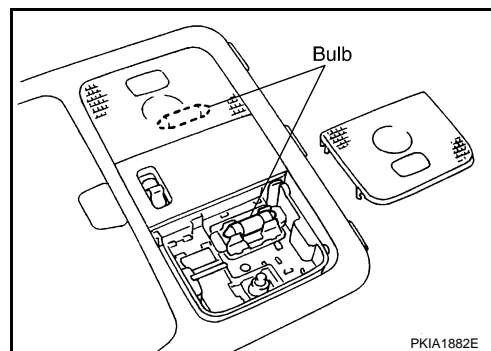
After battery cables are disconnected, never open/close driver and/or passenger door with the window in the full up position. Automatic window adjusting function will not work and side roof panel may be damaged.

2. Remove lens using clip driver or suitable tool.
3. Remove bulb.

Map lamp : 12V - 8W

4. Installation is the reverse order of removal.

Roadster Models



INTERIOR ROOM LAMP

< SERVICE INFORMATION >

1. Open driver and passenger window, and then disconnect battery cable from the negative terminal.

CAUTION:

After battery cables are disconnected, never open/close driver and/or passenger door with the window in the full up position. Automatic window adjusting function will not work and side roof panel may be damaged.

2. Remove lens using clip driver or suitable tool.
3. Remove bulb.

Map lamp : 12V - 8W

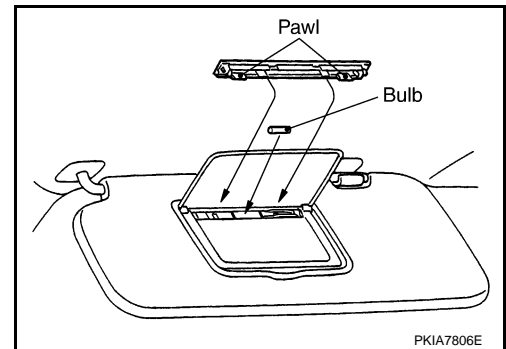
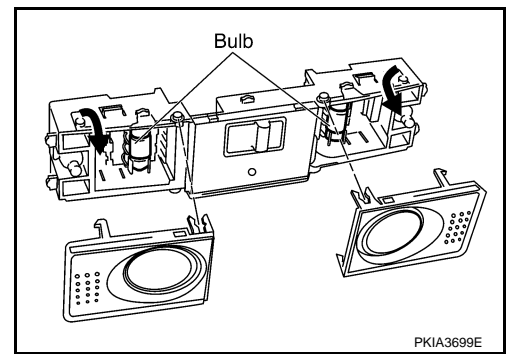
4. Installation is the reverse order of removal.

VANITY MIRROR LAMP

1. Insert a thin screwdriver in the lens end and remove lens.
2. Remove bulb.

Vanity mirror lamp : 12V - 1.32W

3. Installation is the reverse order of removal.



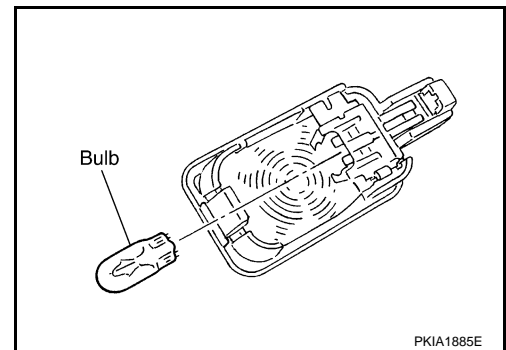
LUGGAGE ROOM LAMP & TRUNK ROOM LAMP

Luggage Room Lamp (Coupe Models)

1. Remove luggage room lamp. Refer to [LT-143, "Removal and Installation"](#).
2. Remove bulb.

Luggage room lamp : 12V - 5W

3. Installation is the reverse order of removal.

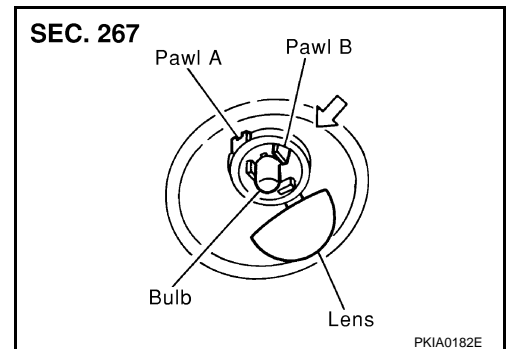


Trunk Room Lamp (Roadster Models)

1. Unfold pawl A and remove lens.
2. Remove trunk room lamp while pressing pawl B in the direction of the arrow.
3. Disconnect trunk room lamp connector.

Trunk room lamp : 12V - 3.4W

4. Installation is the reverse order of removal.



IGNITION KEY HOLE ILLUMINATION

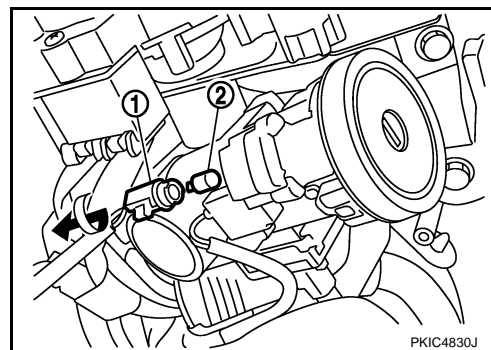
INTERIOR ROOM LAMP

< SERVICE INFORMATION >

1. Remove instrument lower driver panel. Refer to [IP-12](#).
2. Turn bulb socket to left to release lock and remove bulb socket (1).
3. Remove ignition key illumination bulb (2) from its socket.

Ignition key hole illumination : 12V - 1.4W

4. Installation is the reverse order of removal.



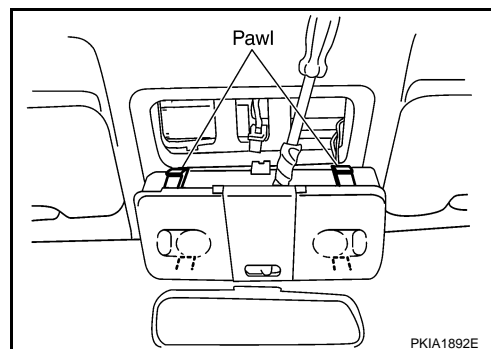
INFOID:000000004655940

Removal and Installation

MAP LAMP

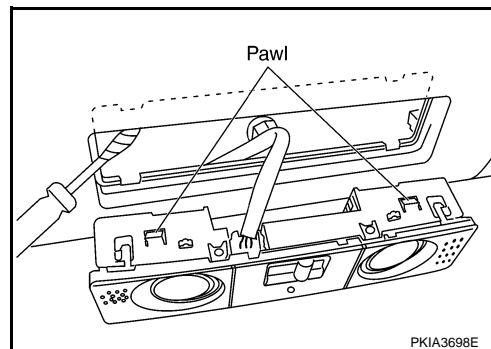
Coupe Models

1. Insert a clip driver or suitable tool and disengage pawl fittings of map lamp.
2. Disconnect map lamp connector and remove map lamp.
3. Installation is the reverse order of removal.



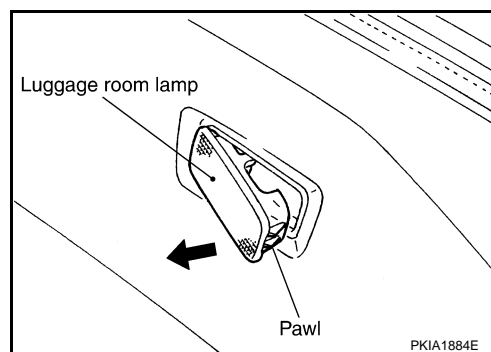
Roadster Models

1. Insert a clip driver or suitable tool and disengage pawl fittings of map lamp.
2. Disconnect map lamp connector and remove map lamp.
3. Installation is the reverse order of removal.



LUGGAGE ROOM LAMP

1. Pull out luggage room lamp in direction shown by the arrow in the figure.
2. Disconnect luggage room lamp connector.
3. Installation is the reverse order of removal.



ILLUMINATION

System Description

INFOID:000000004655941

Control of the illumination lamp operation is dependent upon the position of the lighting switch (combination switch). When the lighting switch is placed in the 1ST or 2ND position, the BCM (body control module) receives input signal requesting illumination lamps to illuminate. This input signal is communicated to the IPDM E/R (intelligent power distribution module engine room) through the CAN communication lines. The CPU (central processing unit) located in the IPDM E/R controls tail lamp relay coil. This relay, when energized, directs power to illumination lamps, which then illuminate.

OUT LINE

Power is supplied at all times

- through 10A fuse (No.71, located in IPDM E/R)
- to tail lamp relay, located in IPDM E/R, and
- to CPU located in IPDM E/R,
- through 15A fuse (No.78, located in IPDM E/R)
- to CPU located in IPDM E/R.

Power is also supplied at all times

- through 40A fusible link (letter F, located in fuse, fusible link and relay box)
- to BCM terminal 55,
- through 10A fuse [No.18, located in fuse block (J/B)]
- to BCM terminal 42,
- through 10A fuse [No.19, located in fuse block (J/B)]
- to unified meter and A/C amp. terminal 21,
- through 10A fuse [No.19, located in fuse block (J/B)]
- to combination meter terminal 24.

With ignition switch in the ON or START position, power is supplied

- to CPU located in IPDM E/R,
- through 10A fuse [No.1, located in fuse block (J/B)]
- to BCM terminal 38,
- through 10A fuse [No.12, located in fuse block (J/B)]
- to unified meter and A/C amp. terminal 22, and
- to NAVI control unit terminal 63 (With navigation system),
- through 10A fuse [No.14, located in fuse block (J/B)]
- to combination meter terminal 23.

With ignition switch in the ACC or ON position, power is supplied

- through 10A fuse [No.6, located in fuse block (J/B)]
- to BCM terminal 11.

Ground is supplied

- to BCM terminal 52
- through grounds M30 and M66,
- to IPDM E/R terminals 38 and 60
- through grounds E17, E43 and B102 (with VDC system, navigation system or telephone)
- through grounds E17, E43 and F152 (without VDC system, navigation system and telephone),
- to unified meter and A/C amp. terminals 29 and 30
- through grounds M30 and M66,
- to combination meter terminals 10, 11 and 12
- through grounds M30 and M66,
- to NAVI control unit terminal 1 (With navigation system)
- through ground B115 (With navigation system).

ILLUMINATION OPERATION BY LIGHTING SWITCH

With the lighting switch in the 1ST or 2ND position, the BCM receives input signal requesting illumination lamps to illuminate. This input signal is communicated to the IPDM E/R through the CAN communication lines. CPU located in the IPDM E/R controls tail lamp relay coil, which, when energized, directs power

- through terminal 22 of IPDM E/R
- to NAVI control unit terminal 61 (With navigation system)
- to NAVI switch terminal 2 (With navigation system)
- to audio unit terminal 8.
- to combination switch (spiral cable) terminal 26 (with steering switch)
- to soft top switch (illumination) terminal 5 (Roadster model)

ILLUMINATION

< SERVICE INFORMATION >

- to A/T device (A/T illumination) terminal 3 (With A/T)
 - to VDC off switch (illumination) terminal 3 (With VDC)
 - to TCS off switch (illumination) terminal 3 (With TCS)
 - to map lamp (illumination) terminal 4 (Roadster models)
 - to hazard switch (illumination) terminal 3
 - to heated seat switch (driver side) (illumination) terminal 5 (With heated seat)
 - to heated seat switch (passenger side) (illumination) terminal 5 (With heated seat)
 - to bottle holder illumination (driver side) terminal 1
 - to bottle holder illumination (passenger side) terminal 1
 - to cup holder illumination terminal 1
 - to luggage floor box lamp terminal 1.
- Ground is supplied at all times
- to NAVI control unit terminal 1 (with navigation system)
 - through ground B115,
 - to NAVI switch terminal 3 (With navigation system)
 - to audio unit terminal 7
 - to combination switch (spiral cable) terminal 27 (with steering switch)
 - to soft top switch (illumination) terminal 6 (Roadster models)
 - to A/T device (A/T illumination) terminal 5 (With A/T)
 - to VDC off switch (illumination) terminal 4 (With VDC)
 - to TCS off switch (illumination) terminal 4 (With TCS)
 - to hazard switch (illumination) terminal 4
 - to heated seat switch (driver side) (illumination) terminal 6 (With heated seat)
 - to heated seat switch (passenger side) (illumination) terminal 6 (With heated seat)
 - to bottle holder illumination (driver side) terminal 2, and
 - to bottle holder illumination (passenger side) terminal 2
 - through combination meter terminal 18,
 - to map lamp (illumination) terminal 1 (Roadster models)
 - to cup holder illumination terminal 2
 - through grounds M30 and M66,
 - to luggage floor box lamp terminal 2
 - through grounds B5, B6, D105 and T14 (Coupe model)
 - through grounds B5, B6 and T14 (Roadster model).

With power and ground supplied, illumination lamps illuminate.

EXTERIOR LAMP BATTERY SAVER CONTROL

When the combination switch (lighting switch) is in the 1ST or 2ND position, and the ignition switch is turned from ON or ACC to OFF, battery saver control function is activated.

Under this condition, the illumination lamps remain illuminated for 5 minutes, then illumination lamps are turned off.

When the lighting switch is turned from OFF to 1ST or 2ND position after illumination lamps are turned off by battery saver control, and illumination lamps illuminate again.

Exterior lamp battery saver control mode can be changed by the function setting of CONSULT-III.

CAN Communication System Description

INFOID:0000000004655942

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

INFOID:0000000004655943

Refer to [LAN-41. "CAN System Specification Chart"](#).

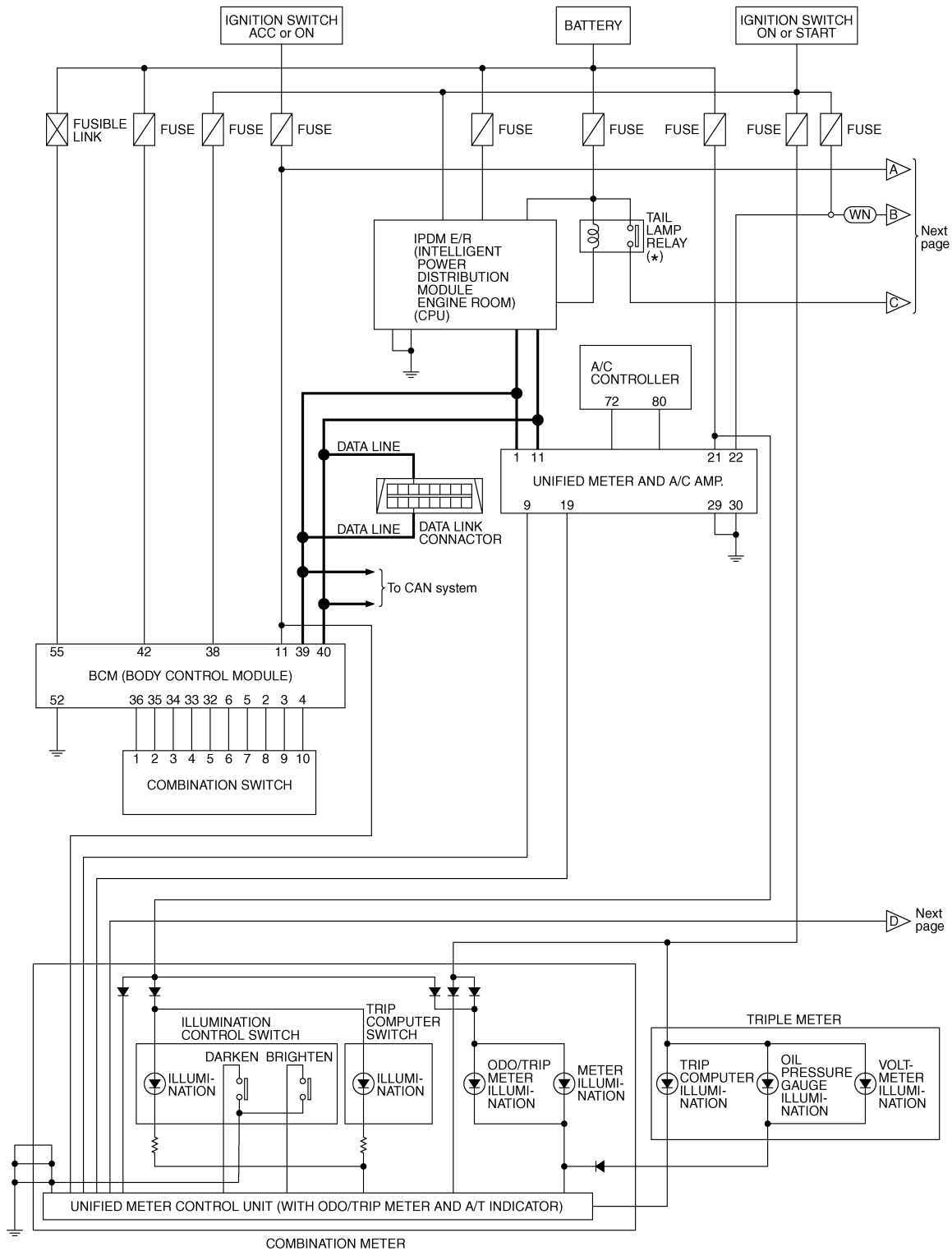
ILLUMINATION

< SERVICE INFORMATION >

Schematic

INFOID:000000004655944

(WN) : With navigation system * : This relay is built into the IPDM E/R (Intelligent power distribution module engine room).

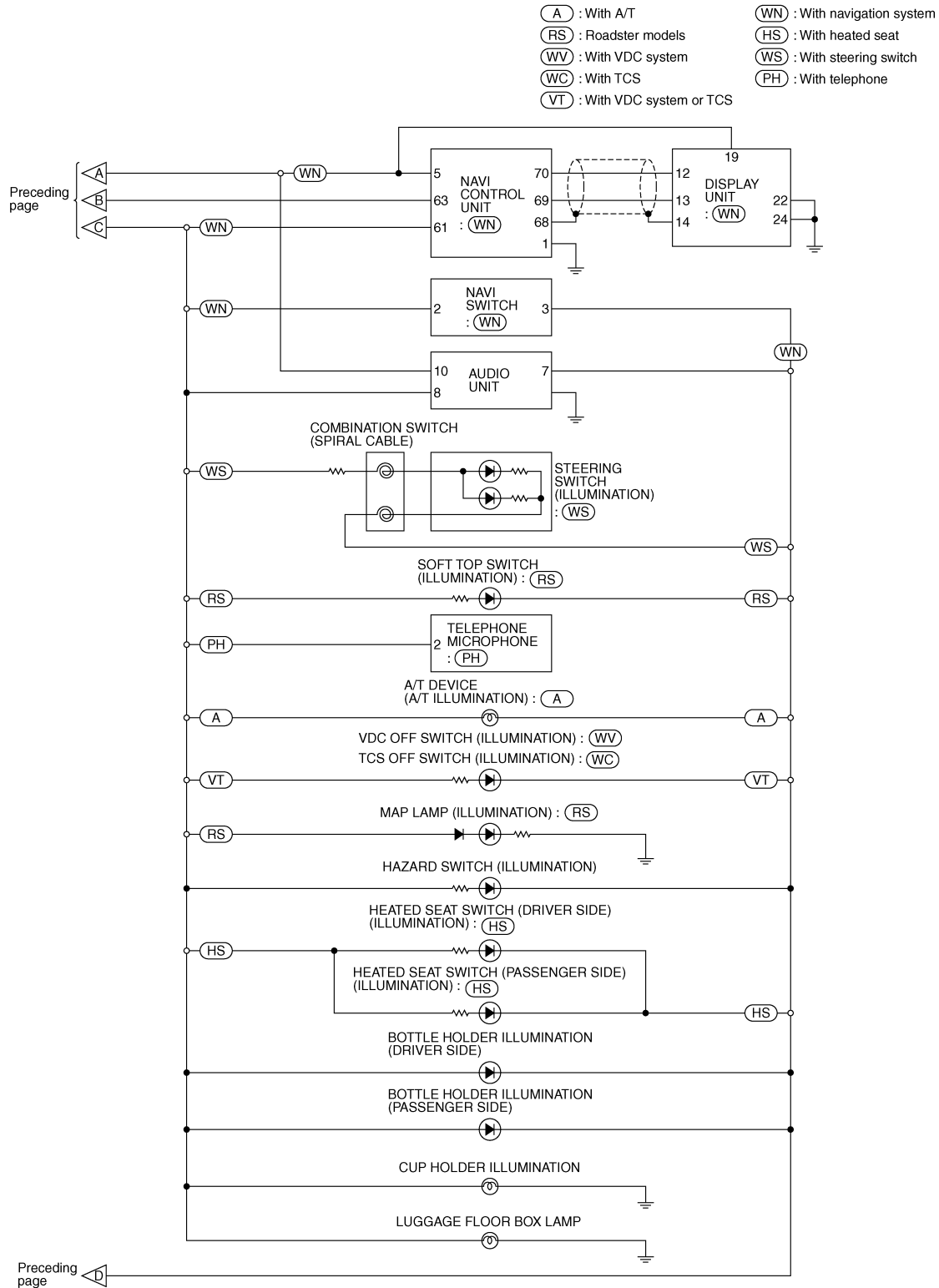


Next page

TKWT4089E

ILLUMINATION

< SERVICE INFORMATION >



TKWT5767E

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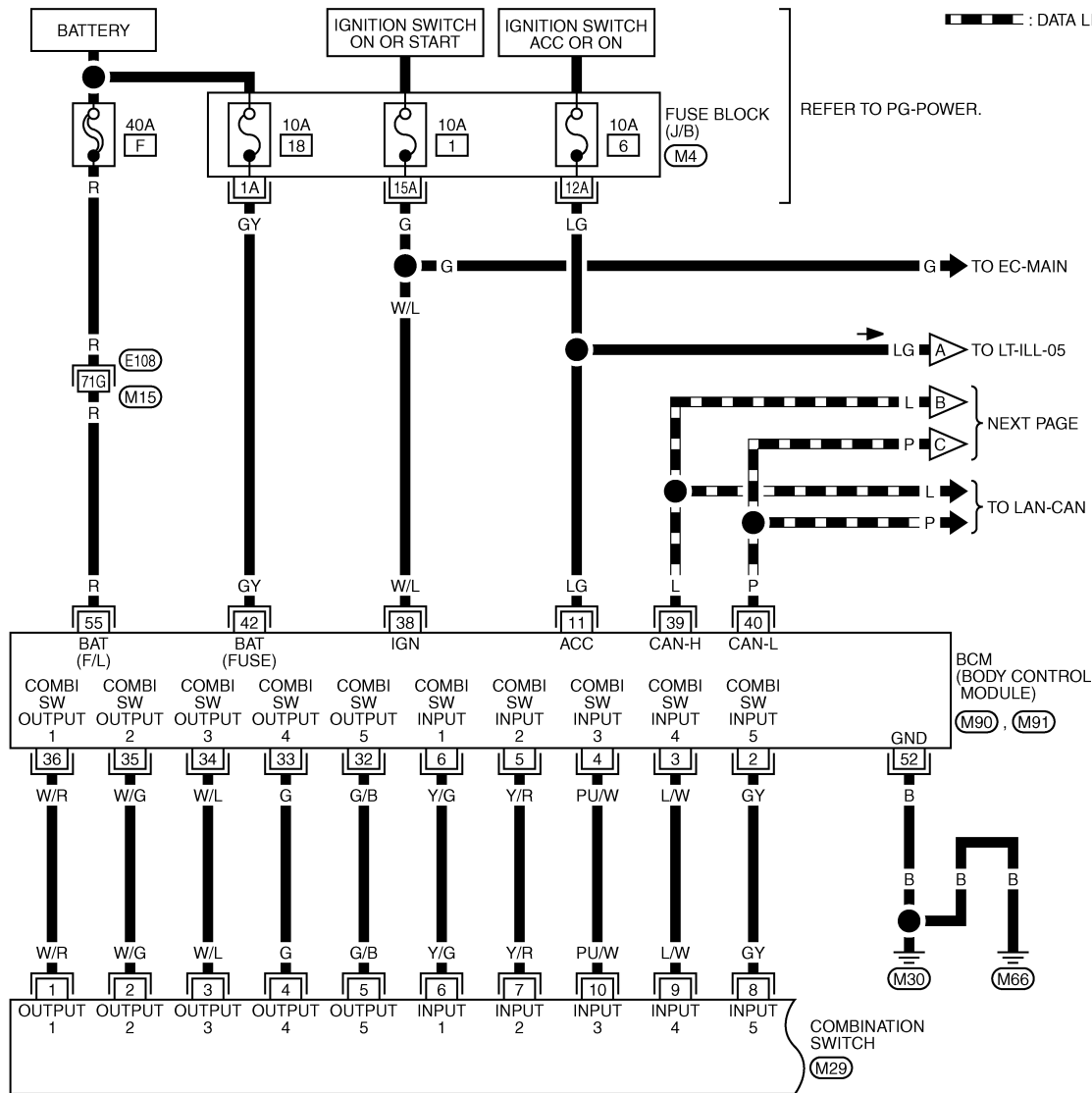
ILLUMINATION

< SERVICE INFORMATION >

Wiring Diagram - ILL -

INFOID:000000004655945

LT-ILL-01



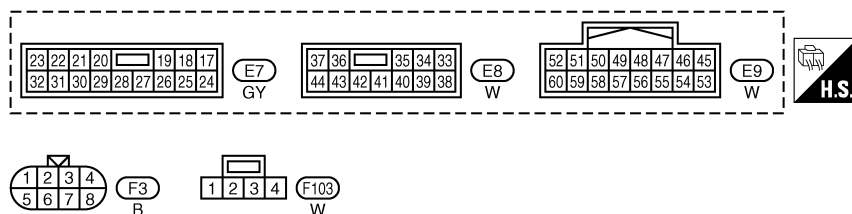
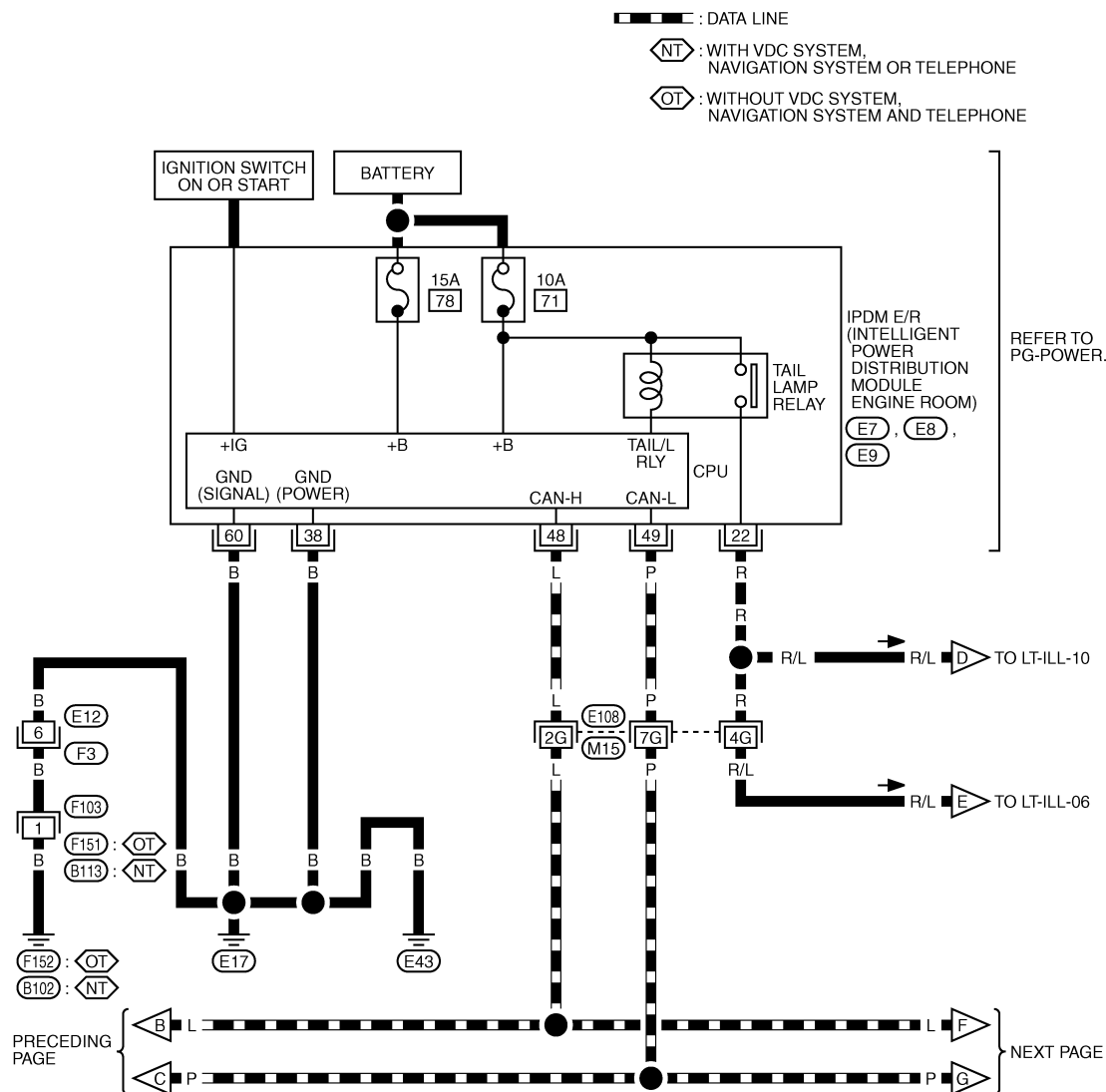
7	8	9	10	11	12	M29
6	5	4	3	2	1	W

REFER TO THE FOLLOWING.
 (E108) -SUPER MULTIPLE JUNCTION (SMJ)
 (M4) -FUSE BLOCK-JUNCTION BOX (J/B)
 (M90), (M91) -ELECTRICAL UNITS

TKWT5768E

< SERVICE INFORMATION >


LT-ILL-02

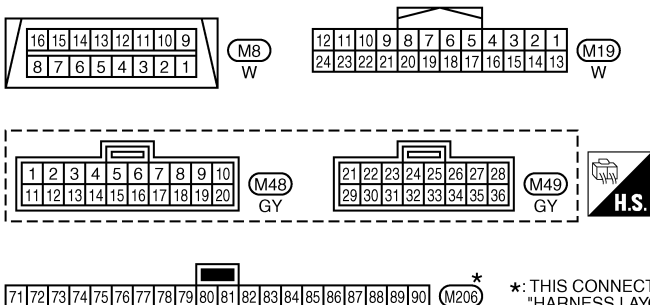


REFER TO THE FOLLOWING.
(E108) -SUPER MULTIPLE
 JUNCTION (SMJ)

TKWT5769E

< SERVICE INFORMATION >

 : DATA LINE
 : WITH NAVIGATION SYSTEM



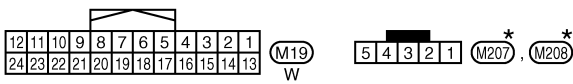
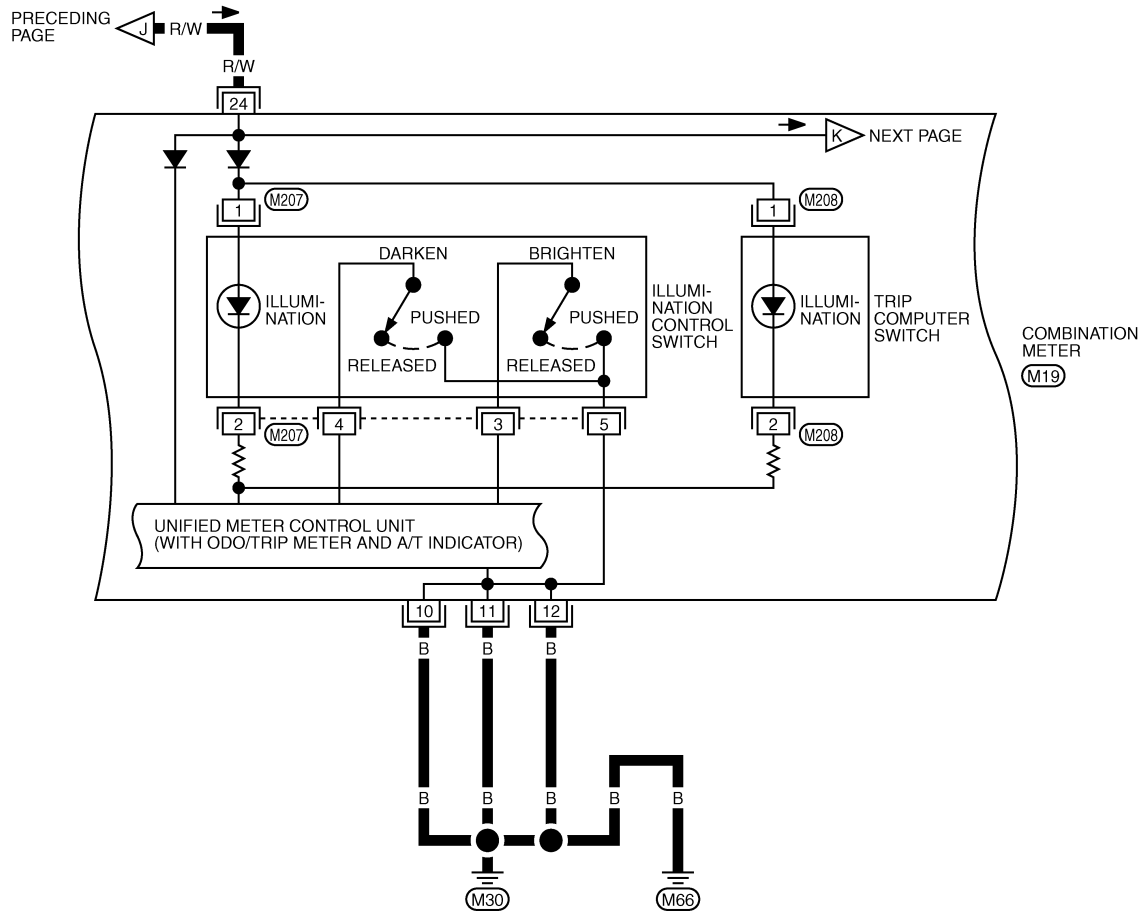
*: THIS CONNECTOR IS NOT SHOWN IN
"HARNESS LAYOUT", PG SECTION.

2008 & 2009 350Z

ILLUMINATION

< SERVICE INFORMATION >

LT-ILL-04



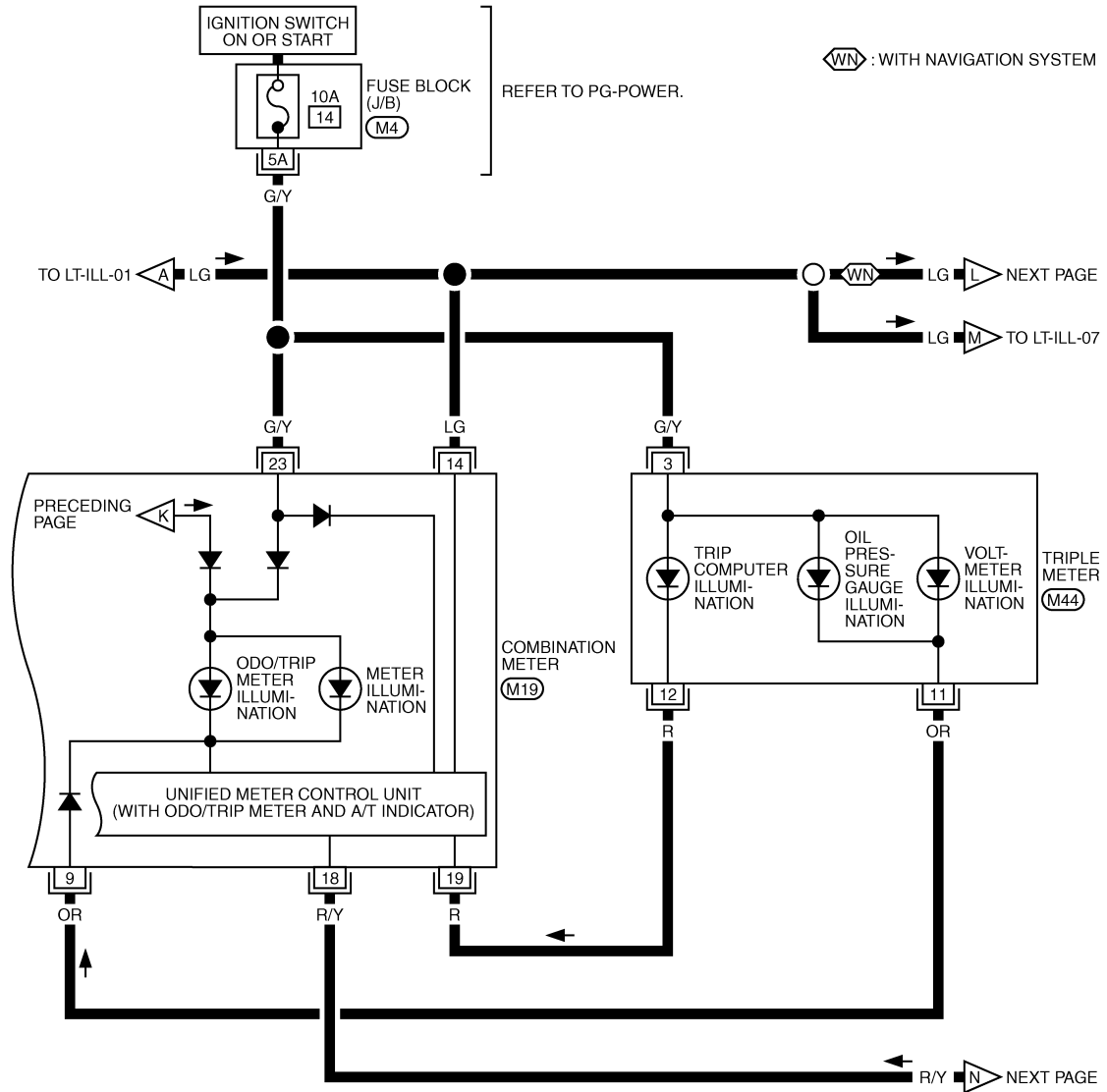
★: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT4093E

ILLUMINATION

< SERVICE INFORMATION >

LT-ILL-05



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

(M19) W

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

(M44) W

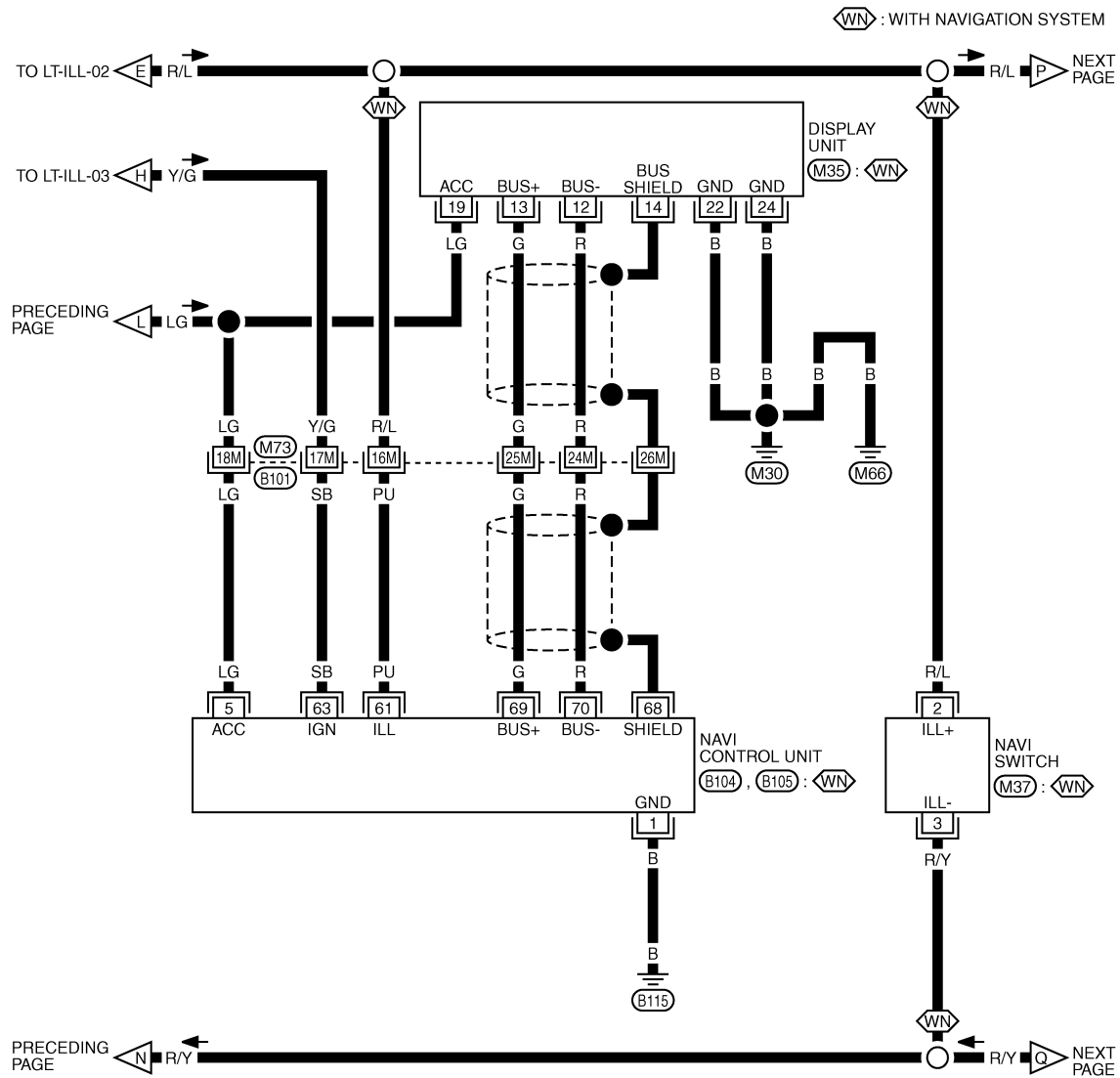
REFER TO THE FOLLOWING.
(M4) - FUSE BLOCK-JUNCTION BOX (J/B)


TKWT1830E

ILLUMINATION

< SERVICE INFORMATION >

LT-ILL-06



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

M35

GY

(M35)
GY

3	2			1
8	7	6	5	4

M37

W

(M37)
W

REFER TO THE FOLLOWING.
(B101) - SUPER MULTIPLE
JUNCTION (SMJ)

40	38	36	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2	72	70	68	66	64	62	60	58	56	54	52	50	48	46	44	42
39	37	35	33	31	29	27	25	23	21	19	17	15	13	11	9	7	5	3	1	71	69	67	65	63	61	59	57	55	53	51	49	47	45	43	41

(B104)
W

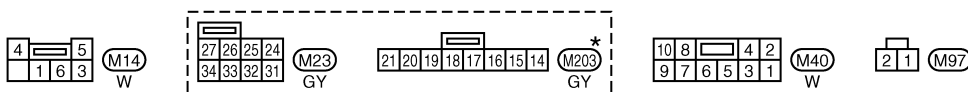
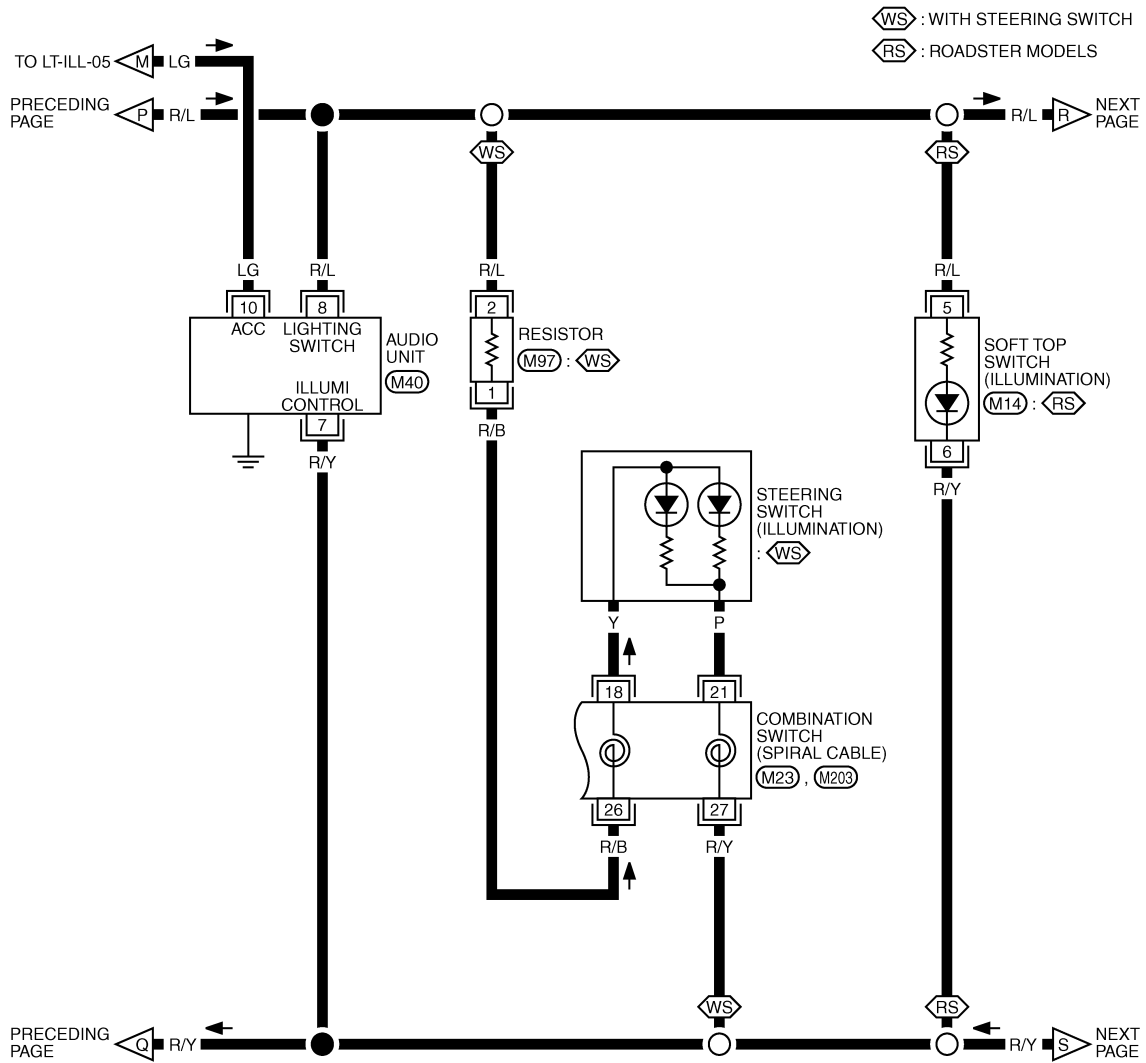
(B105)
W

TKWT5596E

ILLUMINATION

< SERVICE INFORMATION >

LT-ILL-07



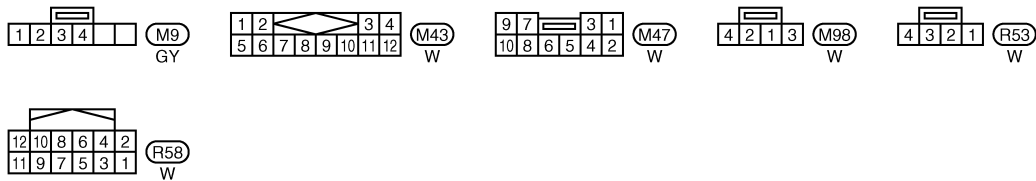
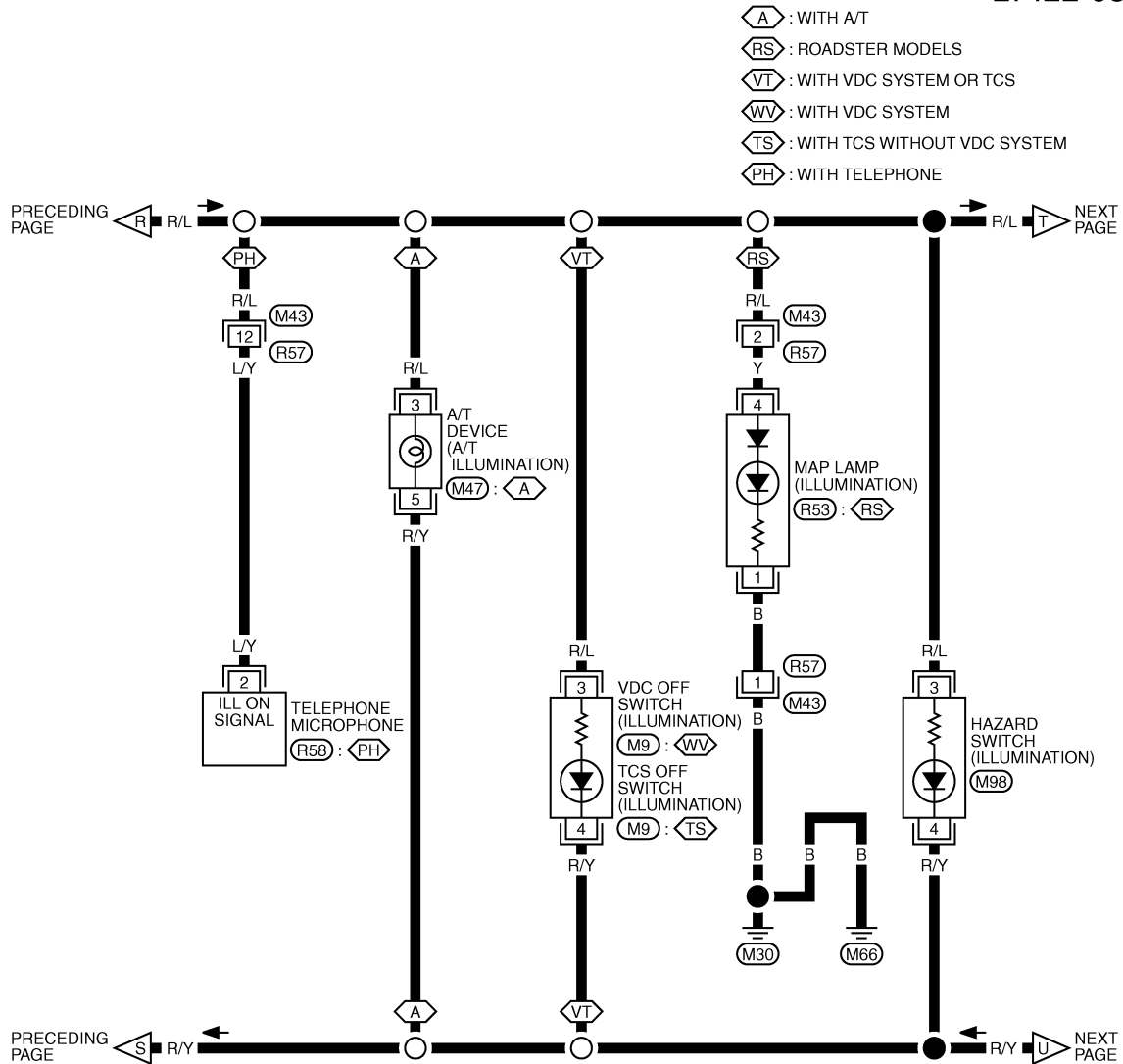
★: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT", PG SECTION.

TKWT4095E

ILLUMINATION

< SERVICE INFORMATION >

LT-ILL-08



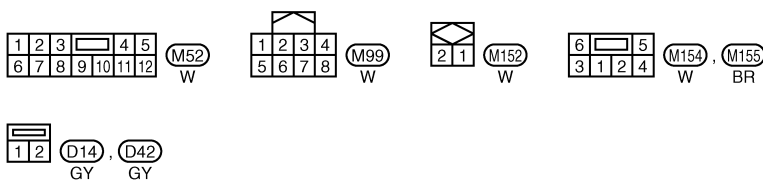
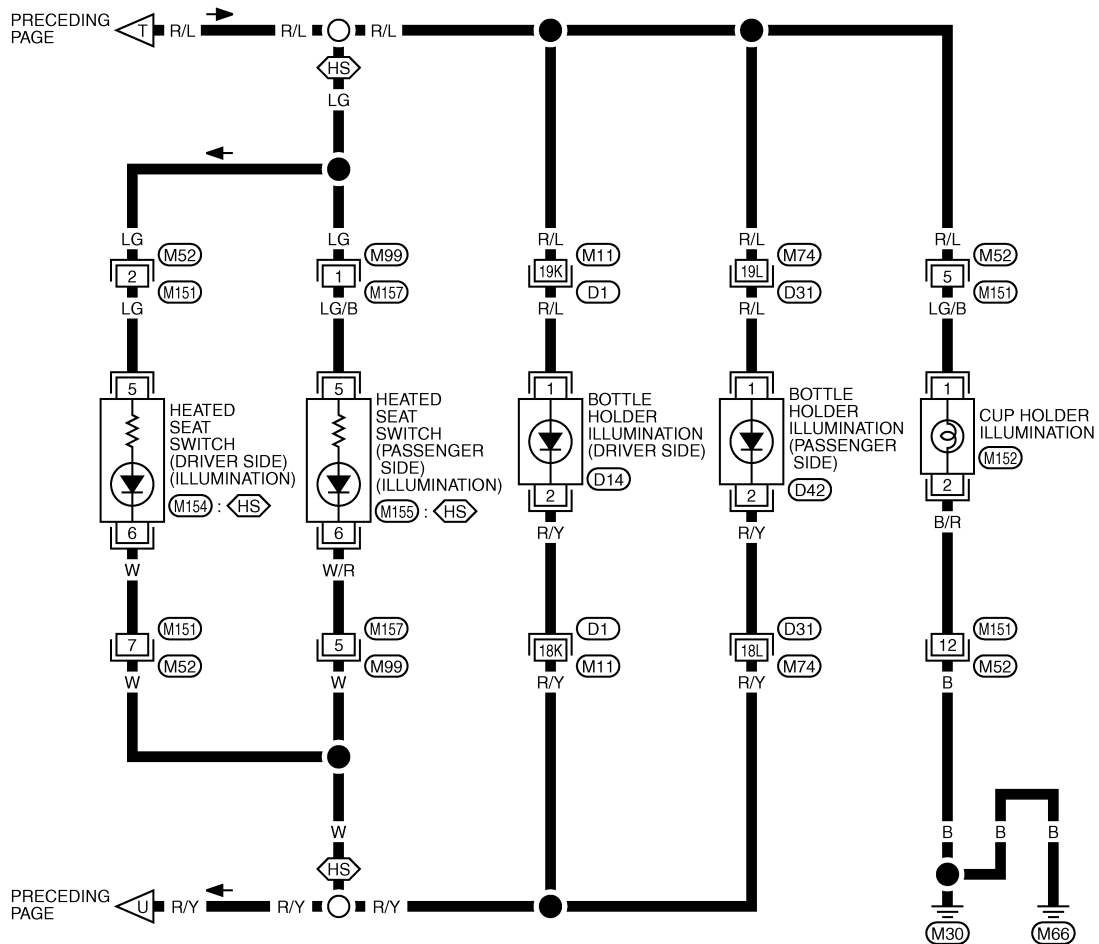
TKWT5771E

ILLUMINATION

< SERVICE INFORMATION >

LT-ILL-09

⬠HS⬠ : WITH HEATED SEAT



REFER TO THE FOLLOWING.
 (D1), (D31) -SUPER MULTIPLE
 JUNCTION (SMJ)

TKWT4097E

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Bulb Replacement

LUGGAGE FLOOR BOX LAMP



INFOID:0000000004655946

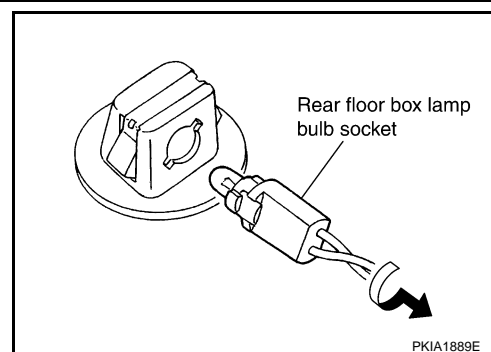
ILLUMINATION

< SERVICE INFORMATION >

1. Remove luggage floor box lamp. Refer to
2. Turn bulb socket counterclockwise to release lock and remove it.

Luggage floor box lamp : 12 V - 1.4W

3. Installation is the reverse order of removal.

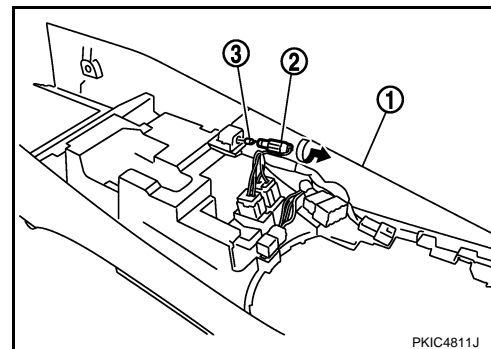


CUP HOLDER ILLUMINATION

1. Remove center console assembly (1). Refer to [IP-12](#).
2. Turn bulb socket counterclockwise to release lock and remove bulb socket (2).
3. Remove cup holder illumination bulb (3) from its socket.

Cup holder illumination : 12V - 1.1W

4. Installation is the reverse order of removal.

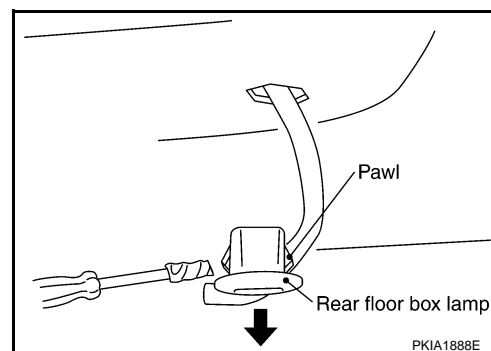


INFOID:000000004655947

Removal and Installation

LUGGAGE FLOOR BOX LAMP

1. Pull out rear floor box lamp using screwdriver or similar tool.
2. Installation is the reverse order of removal.



BULB SPECIFICATIONS

< SERVICE INFORMATION >

BULB SPECIFICATIONS

Headlamp

INFOID:0000000004655948

Item	Wattage (W)
High / Low	35 (D2R)

Exterior Lamp

INFOID:0000000004655949

Item		Wattage (W)
Front combination lamp	Front turn signal lamp/—	28/8 (amber)
	Parking lamp	5
	Front side marker lamp	LED
Rear combination lamp	Stop/Tail lamp	LED
	Rear turn signal lamp	21 (amber)
	Back-up lamp	21
	Rear side marker lamp	LED
License plate lamp		5
High-mounted stop lamp		LED

Interior Lamp/Illumination

INFOID:0000000004655950

Item	Wattage (W)
Luggage floor box lamp	1.4
Cup holder illumination lamp	1.1
Bottle holder illumination lamp	LED
Map lamp	8
Luggage room lamp	5
Trunk room lamp	3.4
Vanity mirror lamp	1.32
Ignition key hole illumination lamp	1.4

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