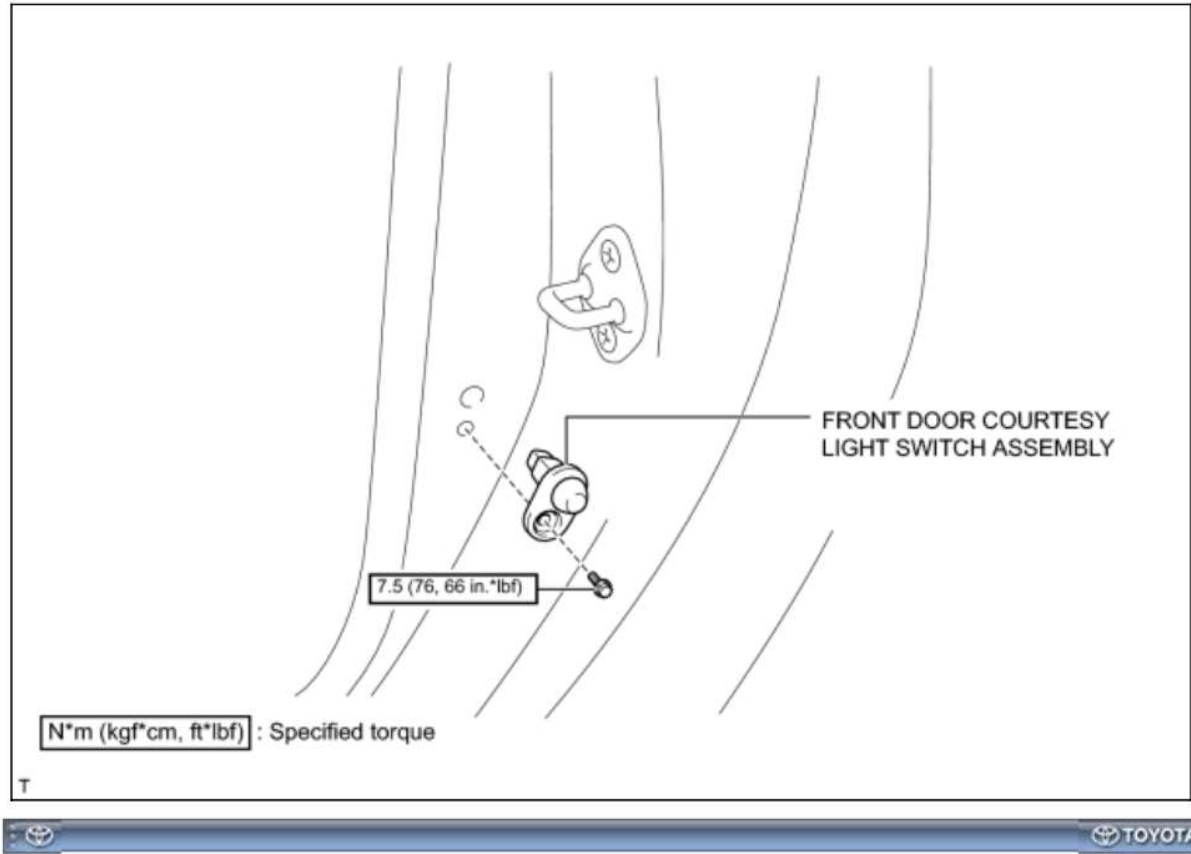


Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUF01NX
Title: LIGHTING (INT): FRONT DOOR COURTESY SWITCH: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



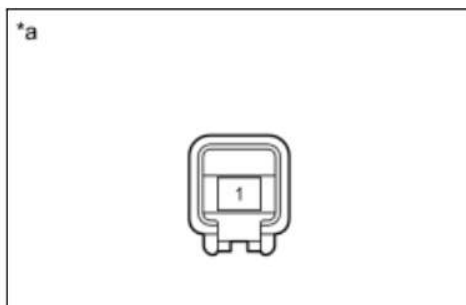
Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000202N035X
Title: LIGHTING (INT): FRONT DOOR COURTESY SWITCH: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY

(a) Measure the resistance according to the value(s) in the table below.

Standard Resistance:



TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - Switch body	Not pushed	Below 1 Ω
1 - Switch body	Pushed	10 k Ω or higher

Text in Illustration

*a	Component without harness connected (Front Door Courtesy Light Switch Assembly)
----	--

If the result is not as specified, replace the front door courtesy switch assembly.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUW021X
Title: LIGHTING (INT): FRONT DOOR COURTESY SWITCH: INSTALLATION (2013 FR-S)		

INSTALLATION

HINT:

- Use the same procedure for the RH and LH sides.
- The procedure described below is for the LH side.

1. INSTALL FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY

- (a) Connect the connector.
- (b) Install the front door courtesy light switch assembly with the bolt.

Torque: 7.5 N·m (77 kgf·cm, 66in·lbf)



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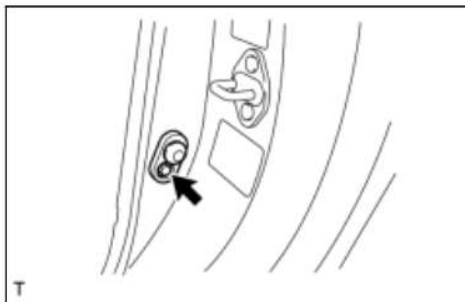
Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUX01XX
Title: LIGHTING (INT): FRONT DOOR COURTESY SWITCH: REMOVAL (2013 FR-S)		

REMOVAL

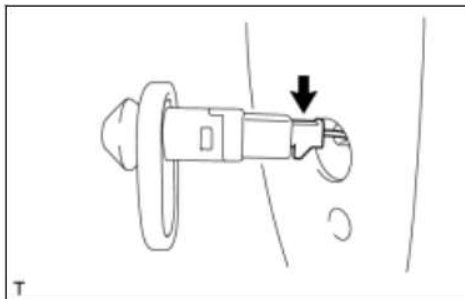
HINT:

- Use the same procedure for the RH and LH sides.
- The procedure described below is for the LH side.

1. REMOVE FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY



(a) Remove the bolt.



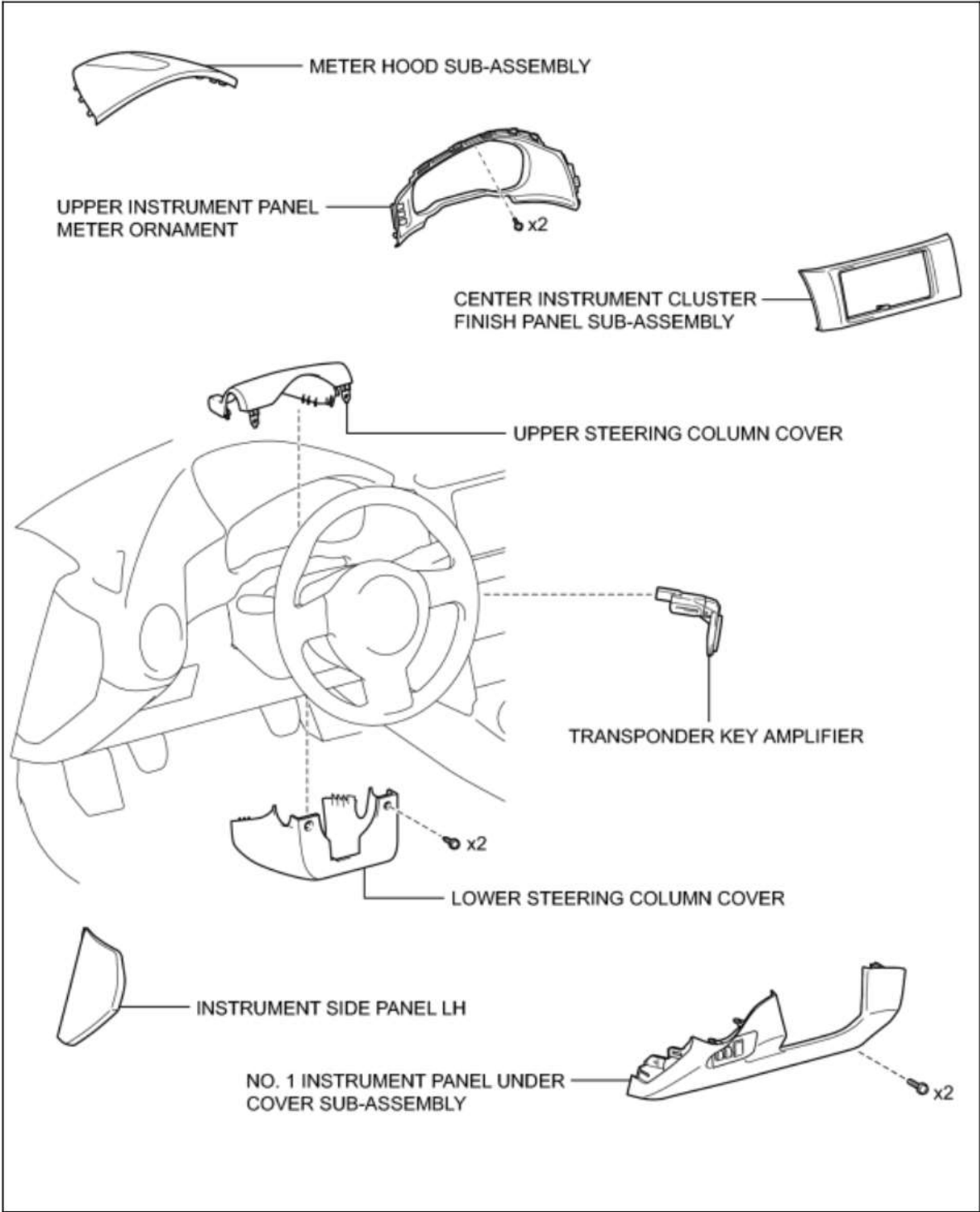
(b) Disconnect the connector and remove the front door courtesy light switch assembly.



Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003YO000TX
Title: LIGHTING (INT): IGNITION KEY CYLINDER LIGHT: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



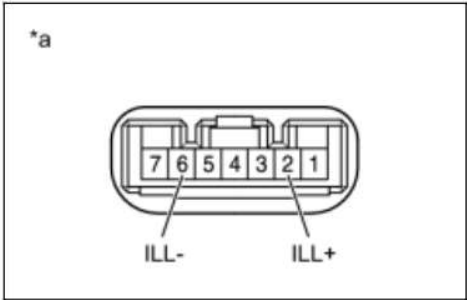
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Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003YNZ00VX
Title: LIGHTING (INT): IGNITION KEY CYLINDER LIGHT: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT TRANSPONDER KEY AMPLIFIER

- (a) Apply battery voltage to the connector and check the light comes on.
OK:



CONDITION	SPECIFIED CONDITION
Battery positive (+) → 2 (ILL+) Battery negative (-) → 6 (ILL-)	Light comes on

If the result is not as specified, replace the transponder key amplifier.

Text in Illustration

*a	Component without harness connected (Transponder Key Amplifier)
----	--



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003YNY00XX
Title: LIGHTING (INT): IGNITION KEY CYLINDER LIGHT: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL TRANSPONDER KEY AMPLIFIER

- (a) Connect the connector.
- (b) Engage the 2 claws to install the transponder key amplifier.

2. INSTALL UPPER STEERING COLUMN COVER INFO

3. INSTALL LOWER STEERING COLUMN COVER INFO

4. INSTALL NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY INFO

5. INSTALL UPPER INSTRUMENT PANEL METER ORNAMENT INFO

6. INSTALL METER HOOD SUB-ASSEMBLY

7. INSTALL CENTER INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY INFO

8. INSTALL INSTRUMENT SIDE PANEL LH INFO

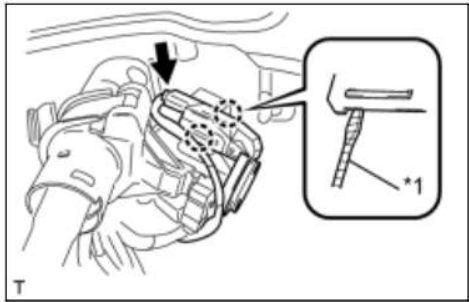


Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003YO100XX
Title: LIGHTING (INT): IGNITION KEY CYLINDER LIGHT: REMOVAL (2013 FR-S)		

REMOVAL

1. REMOVE INSTRUMENT SIDE PANEL LH INFO
2. REMOVE CENTER INSTRUMENT CLUSTER FINISH PANEL SUB-ASSEMBLY INFO
3. REMOVE METER HOOD SUB-ASSEMBLY INFO
4. REMOVE UPPER INSTRUMENT PANEL METER ORNAMENT INFO
5. REMOVE NO. 1 INSTRUMENT PANEL UNDER COVER SUB-ASSEMBLY INFO
6. REMOVE LOWER STEERING COLUMN COVER INFO
7. REMOVE UPPER STEERING COLUMN COVER INFO
8. REMOVE TRANSPONDER KEY AMPLIFIER

(a) Disconnect the connector.



(b) Using a screwdriver with its tip wrapped with protective tape, disengage the 2 claws and remove the transponder key amplifier.

Text in illustration

*1	Protective Tape
----	-----------------

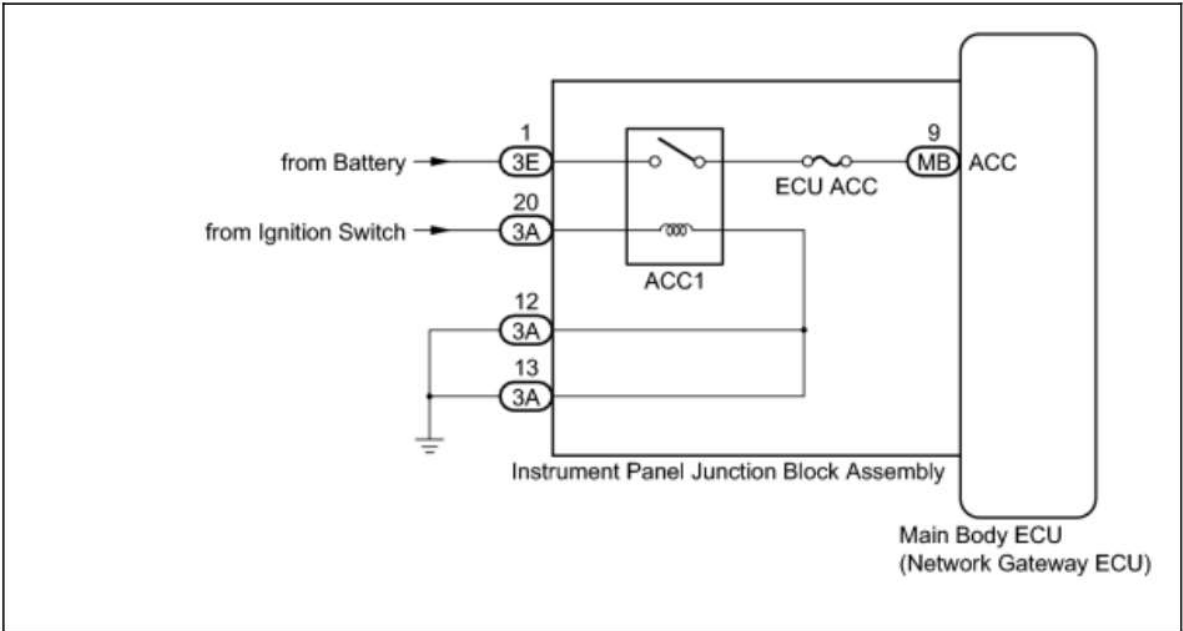
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000011SQ09FX
Title: LIGHTING (INT): LIGHTING SYSTEM: ACC Signal Circuit (2013 FR-S)		

ACC Signal Circuit

DESCRIPTION

This circuit detects the ignition switch ACC or off condition, and sends it to the main body ECU (network gateway ECU).

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:
Inspect the fuses for circuits related to this system before performing the following inspection procedure.

PROCEDURE

1.	READ VALUE USING TECHSTREAM
----	-----------------------------

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch to ON.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Body Electrical / Main Body / Data List.

(e) Read the display on the Techstream.

OK:

Normal conditions listed above are displayed.

Main Body

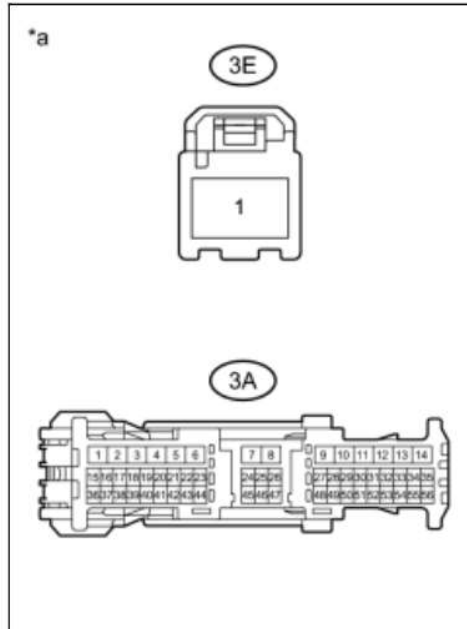
TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
ACC SW	Ignition switch ACC signal/ON or OFF	ON: Ignition switch ACC OFF: Ignition switch off	-

NG ► **CHECK HARNESS AND CONNECTOR
(INSTRUMENT PANEL JUNCTION BLOCK
ASSEMBLY - BATTERY AND BODY
GROUND)**

OK ► **PROCEED TO NEXT SUSPECTED AREA
SHOWN IN PROBLEM SYMPTOMS TABLE**

2.	CHECK HARNESS AND CONNECTOR (INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY - BATTERY AND BODY GROUND)
-----------	---

(a) Disconnect the 3A and 3E instrument panel junction block assembly connectors.



(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3E-1 - Body ground	Always	11 to 14 V
3A-20 - Body ground	Ignition switch ACC	11 to 14 V

(c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3A-12 - Body ground	Always	Below 1 Ω

3A-13 - Body ground	Always	Below 1 Ω
---------------------	--------	-----------

Text in Illustration

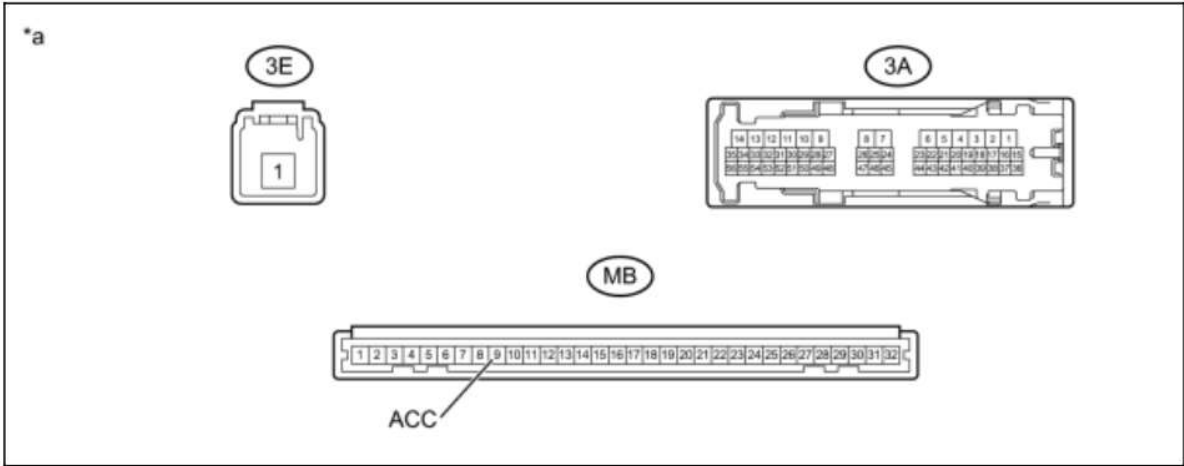
*a	Front view of wire harness connector (to instrument panel junction block assembly)
----	---

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK


3. INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY (ACC1 RELAY)

- (a) Remove the instrument panel junction block assembly  .
- (b) Remove the main body ECU (network gateway ECU) from the instrument panel junction block assembly.
- (c) Measure the resistance according to the value(s) in the table below.



Text in Illustration

*a	Component without harness connected (Instrument panel junction block assembly)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3E-1 - MB-9 (ACC)	Always	10 kΩ or higher
	Battery positive (+) → 3A-20	

3E-1 - MB-9 (ACC)	Battery negative (-) → 3A-12 or 3A-13	Below 1 Ω
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NG ► **REPLACE INSTRUMENT PANEL JUNCTION
BLOCK ASSEMBLY**

OK ► **REPLACE MAIN BODY ECU (NETWORK
GATEWAY ECU)**



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000004PIC00IX
Title: LIGHTING (INT): LIGHTING SYSTEM: CUSTOMIZE PARAMETERS (2013 FR-S)		

CUSTOMIZE PARAMETERS

1. CUSTOMIZE LIGHTING SYSTEM (INT)

(a) Customizing using the Techstream

HINT:

The following items can be customized.

NOTICE:

- When the customer requests a change in a function, first make sure that the function can be customized.
- Be sure to make a note of the current settings before customizing.
- When troubleshooting a function, first make sure that the function is set to the default setting.

- (1) Connect the Techstream to the DLC3.
- (2) Turn the ignition switch to ON.
- (3) Turn the Techstream on.
- (4) Enter the following menus: Customize Setting / Illuminated Entry.
- (5) Select the setting by referring to the table below.

Illuminated Entry

TESTER DISPLAY	DEFAULT	CONTENT	SETTING	RELEVANT ECU
Lighting Time	15 s	Changes the lighting time after closing all of the doors. (It will fade out immediately in case of turning the ignition switch from off to ACC or ON.)	7.5 s, 15 s or 30 s	Main body ECU (Network gateway ECU)
I/L when ACC OFF	ON	Lights up the ignition key cylinder light and map light when the ignition switch is turned from ACC or ON to off.	ON or OFF	
I/L ON W/Door Key Unlock	ON	Lights up the ignition key cylinder light and map light when doors are unlocked using a mechanical key or door control transmitter.	ON or OFF	
Interior Light Control	ON	Lights up the ignition key cylinder light and map light when the illuminated entry function is operating.	ON or OFF	



Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000PKV0A8X
Title: LIGHTING (INT): LIGHTING SYSTEM: DATA LIST / ACTIVE TEST (2013 FR-S)		

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

Using the Techstream to read the Data List allows the values or states of switches, sensors, actuators and other items to be read without removing any parts. This non-intrusive inspection can be very useful because intermittent conditions or signals may be discovered before parts or wiring is disturbed. Reading the Data List information early in troubleshooting is one way to save diagnostic time.

NOTICE:

In the following table, the values listed under "Normal Condition" are reference values. Do not depend solely on these reference values when deciding whether a part is faulty or not.

- Connect the Techstream to the DLC3.
- Turn the ignition switch ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Main Body / Data List.
- Read the Data List according to the display on the Techstream.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
D Door Courtesy SW	Driver side door courtesy light switch signal/ON or OFF	ON: Driver side door closed OFF: Driver side door open	-
P Door Courtesy SW	Passenger side door courtesy light switch signal/ON or OFF	ON: Passenger side door closed OFF: Passenger side door open	-
Luggage Courtesy SW	Luggage compartment door courtesy switch signal/ON or OFF	ON: Luggage compartment door open OFF: Luggage compartment door closed	-
IG SW	Ignition switch ON signal/ON or OFF	ON: Ignition switch ON OFF: Ignition switch off	-
ACC SW	Ignition switch ACC signal/ON or OFF	ON: Ignition switch ACC OFF: Ignition	-

		switch off	
Room Light Output	Map light assembly output signal/ON or OFF	ON: Map light assembly on OFF: Map light assembly off	-
Key Illumination Output	Ignition key cylinder light output signal/ON or OFF	ON: Ignition key cylinder light on OFF: Ignition key cylinder light off	-
Lighting Time	Lighting time of the delay control function (illuminated entry system)/15s, 7.5s or 30s	15s: 15 seconds 7.5s: 7.5 seconds 30s: 30 seconds	Customized value is displayed
I/L when ACC OFF	Function that lights up the interior lights when the ignition switch is turned from on (ACC or IG) to off/OFF or ON	OFF: Function disabled ON: Function enabled	Customized value is displayed
I/L ON W/Door Key Unlock	Function that lights up the interior lights when the doors are unlocked/OFF or ON	OFF: Function disabled ON: Function enabled	Customized value is displayed
Interior Light Control	Operation of the illuminated entry system/OFF or ON	OFF: System not operated ON: System operated	Customized value is displayed

2. ACTIVE TEST

HINT:

Using the Techstream to perform Active Tests allows relays, VSVs, actuators and other items to be operated without removing any parts. This non-intrusive functional inspection can be very useful because intermittent operation may be discovered before parts or wiring is disturbed. Performing Active Tests early in troubleshooting is one way to save diagnostic time. Data List information can be displayed while performing Active Tests.

- Connect the Techstream to the DLC3.
- Turn the ignition switch ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Main Body / Active Test.
- Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Illuminated Entry System	- Map light assembly - Ignition key cylinder light	ON/OFF	Map light assembly switch in DOOR position

Key Ring Light	Ignition key cylinder light	ON/OFF	-
 TOYOTA			

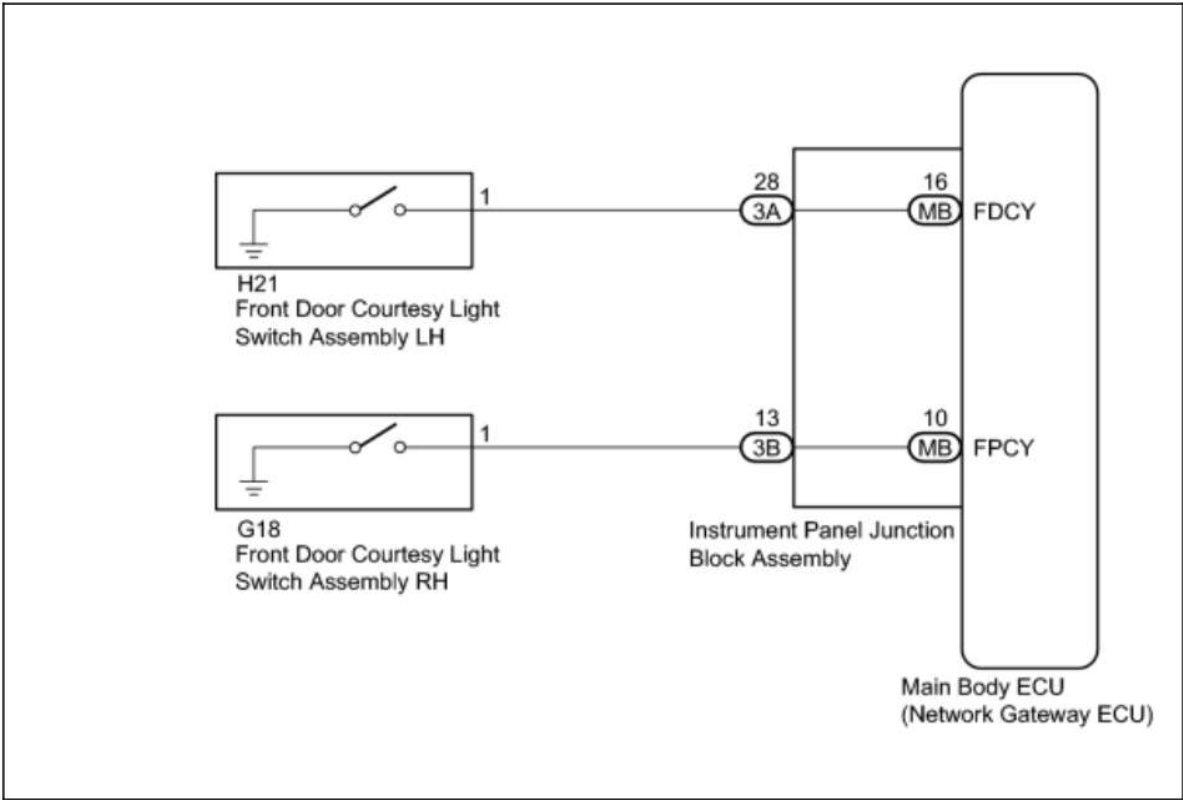
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000011T306TX
Title: LIGHTING (INT): LIGHTING SYSTEM: Door Courtesy Switch Circuit (2013 FR-S)		

Door Courtesy Switch Circuit

DESCRIPTION

The main body ECU (network gateway ECU) detects the condition of the front door courtesy light switch assembly using this circuit.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1.	READ VALUE USING TECHSTREAM
----	-----------------------------

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch to ON.
- (c) Turn the Techstream on.

(d) Enter the following menus: Body Electrical / Main Body / Data List.

(e) Read the display on the Techstream.

OK:

Normal conditions listed above are displayed.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
D Door Courtesy SW	Driver side door courtesy light switch signal/ON or OFF	ON: Driver side door closed OFF: Driver side door open	-
P Door Courtesy SW	Passenger side door courtesy light switch signal/ON or OFF	ON: Passenger side door closed OFF: Passenger side door open	-

Result:

RESULT	PROCEED TO
OK	A
Driver side door courtesy light switch or passenger side door courtesy light switch does not operate	B

B ▶ INSPECT FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY (LH OR RH)

A ▶ PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE

2.	INSPECT FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY (LH OR RH)
-----------	---

(a) Remove the front door courtesy light switch assembly .

(b) Inspect the front door courtesy light switch assembly .

OK:

Front door courtesy light switch assembly is normal.

Result:

RESULT	PROCEED TO
OK (for Front LH)	A
OK (for Front RH)	B
NG	C

B ▶ **CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY RH - INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY)**

C ▶ **REPLACE FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY**

A
▼

3.

CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY LH - INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY)

- (a) Disconnect the 3A instrument panel junction block assembly connector.
- (b) Disconnect the H21 front door courtesy light switch assembly LH connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
H21-1 - 3A-28	Always	Below 1 Ω
H21-1 - Body ground	Always	10 k Ω or higher

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

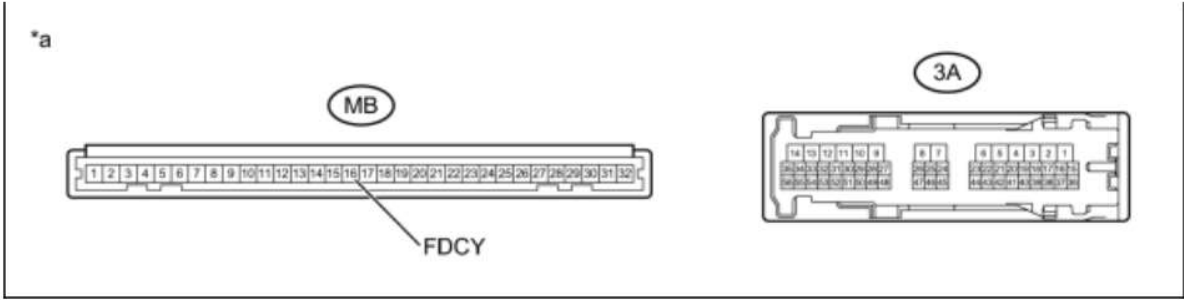
OK



4.

INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

- (a) Remove the instrument panel junction block assembly INFO.
- (b) Remove the main body ECU (network gateway ECU) from the instrument panel junction block assembly.
- (c) Measure the resistance according to the value(s) in the table below.



Text in Illustration

*a	Component without harness connected (Instrument Panel Junction Block Assembly)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3A-28 - MB-16 (FDCY)	Always	Below 1 Ω

NG ➤ REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

OK ➤ REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)

5.	CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY LIGHT SWITCH ASSEMBLY RH - INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY)
----	--

- (a) Disconnect the 3B instrument panel junction block assembly connector.
- (b) Disconnect the G18 front door courtesy light switch assembly RH connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

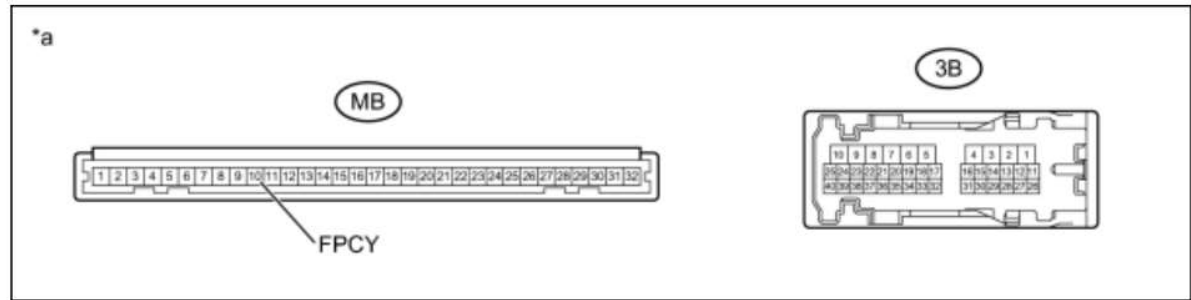
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
G18-1 - 3B-13	Always	Below 1 Ω
G18-1 - Body ground	Always	10 kΩ or higher

NG ➤ REPAIR OR REPLACE HARNESS OR CONNECTOR

OK
▼

6. INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

- (a) Remove the instrument panel junction block assembly INFO .
- (b) Remove the main body ECU (network gateway ECU) from the instrument panel junction block assembly.
- (c) Measure the resistance according to the value(s) in the table below.



Text in Illustration

*a	Component without harness connected (Instrument Panel Junction Block Assembly)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3B-13 - MB-10 (FPCY)	Always	Below 1 Ω

- NG▶ REPLACE INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY
- OK▶ REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)



Last Modified: 3-27-2012	6.4 D	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000PKJ0DFX
Title: LIGHTING (INT): LIGHTING SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING (2013 FR-S)		

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use the following procedure to troubleshoot the lighting system.
- *: Use the Techstream.

1.	VEHICLE BROUGHT TO WORKSHOP
-----------	------------------------------------

NEXT



2.	CUSTOMER PROBLEM ANALYSIS AND SYMPTOM CHECK
-----------	--

NEXT



3.	INSPECT BATTERY VOLTAGE
-----------	--------------------------------

(a) Measure the battery voltage with the ignition switch off.

Standard Voltage:

11 to 14 V

If the voltage is below 11 V, recharge or replace the battery before proceeding to the next step.

NEXT



4.	PROBLEM SYMPTOMS TABLE
-----------	-------------------------------

Result:

RESULT	PROCEED TO
Fault is not listed in Problem Symptoms Table.	A

Fault is listed in Problem Symptoms Table.	B
--	---

B ▶ Go to step 6

A
▼

5.	OVERALL ANALYSIS AND TROUBLESHOOTING*
-----------	--

(a) Data List / Active Test INFO

(b) Terminals of ECU INFO

NEXT
▼

6.	ADJUST, REPAIR OR REPLACE
-----------	----------------------------------

NEXT
▼

7.	CONFIRMATION TEST
-----------	--------------------------

NEXT ▶ **END**

	 TOYOTA
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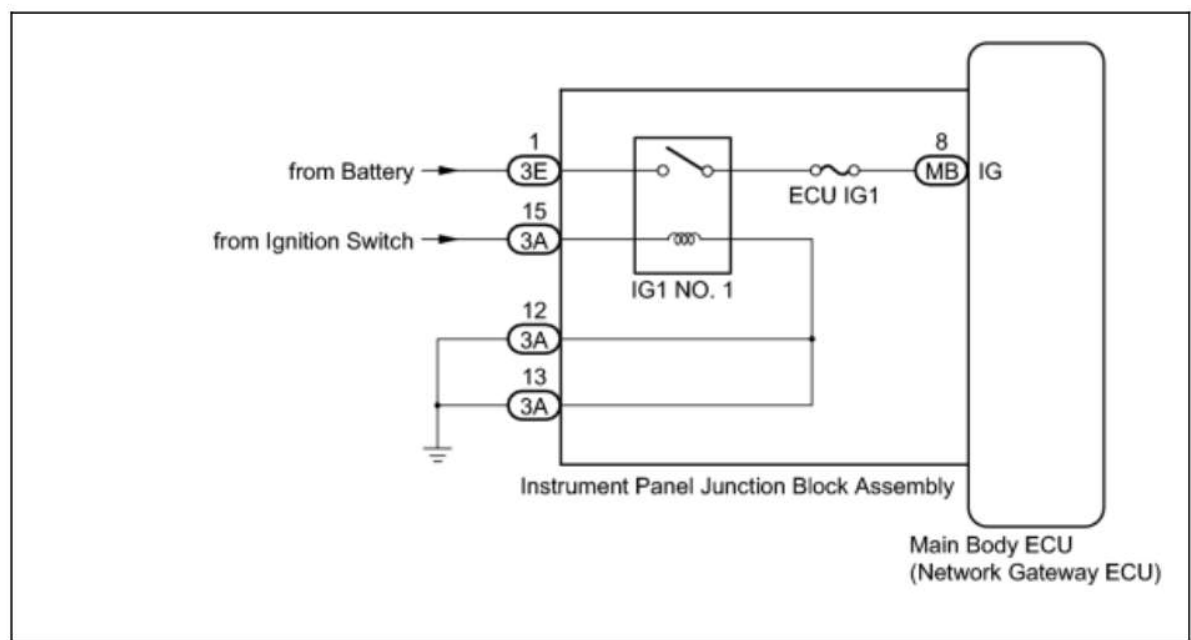
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000011SQ09EX
Title: LIGHTING (INT): LIGHTING SYSTEM: IG Signal Circuit (2013 FR-S)		

IG Signal Circuit

DESCRIPTION

This circuit detects the Ignition switch ON or off condition, and sends it to the main body ECU (network gateway ECU).

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:
Inspect the fuses for circuits related to this system before performing the following inspection procedure.

PROCEDURE

1.	READ VALUE USING TECHSTREAM
----	-----------------------------

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch to ON.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Body Electrical / Main Body / Data List.

(e) Read the display on the Techstream.

OK:

Normal conditions listed above are displayed.

Main Body

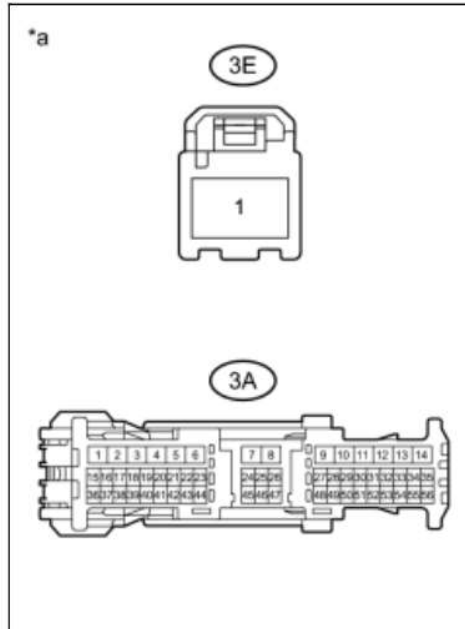
TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
IG SW	Ignition switch ON signal/ON or OFF	ON: Ignition switch ON OFF: Ignition switch off	-

NG ► **CHECK HARNESS AND CONNECTOR
(INSTRUMENT PANEL JUNCTION BLOCK
ASSEMBLY - BATTERY AND BODY
GROUND)**

OK ► **PROCEED TO NEXT SUSPECTED AREA
SHOWN IN PROBLEM SYMPTOMS TABLE**

2.	CHECK HARNESS AND CONNECTOR (INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY - BATTERY AND BODY GROUND)
-----------	---

(a) Disconnect the 3A and 3E instrument panel junction block assembly connectors.



(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3E-1 - Body ground	Always	11 to 14 V
3A-15 - Body ground	Ignition switch ON	11 to 14 V

(c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3A-12 - Body ground	Always	Below 1 Ω

3A-13 - Body ground	Always	Below 1 Ω
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Text in Illustration

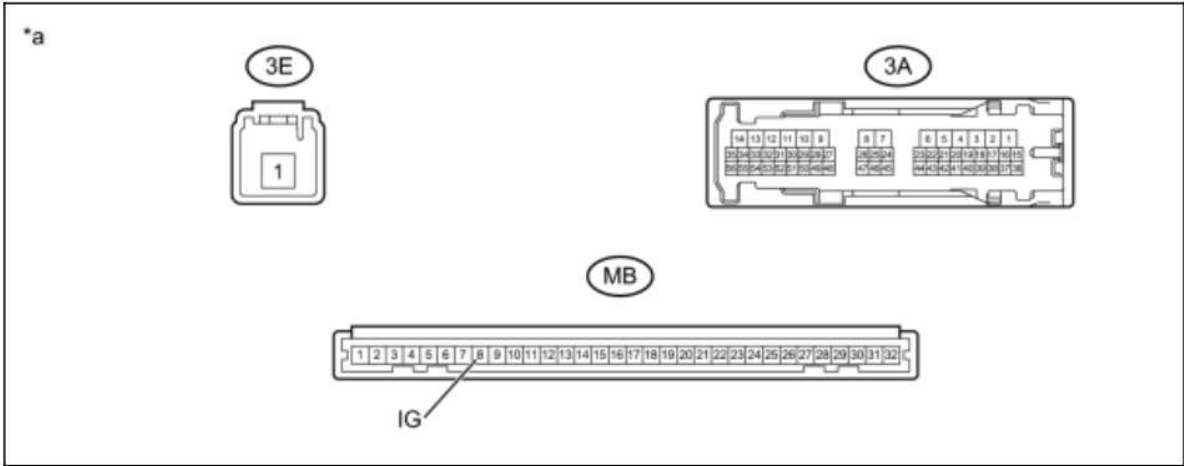
*a	Front view of wire harness connector (to instrument panel junction block assembly)
----	---

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK


3. INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY (IG1 NO. 1 RELAY)

- (a) Remove the instrument panel junction block assembly  .
- (b) Remove the main body ECU (network gateway ECU) from the instrument panel junction block assembly.
- (c) Measure the resistance according to the value(s) in the table below.



Text in Illustration

*a	Component without harness connected (Instrument panel junction block assembly)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3E-1 - MB-8 (IG)	Always	10 kΩ or higher
	Battery positive (+) → 3A-15	

3E-1 - MB-8 (IG)	Battery negative (-) → 3A-12 or 3A-13	Below 1 Ω
------------------	---------------------------------------	------------------

NG ► **REPLACE INSTRUMENT PANEL JUNCTION
BLOCK ASSEMBLY**

OK ► **REPLACE MAIN BODY ECU (NETWORK
GATEWAY ECU)**



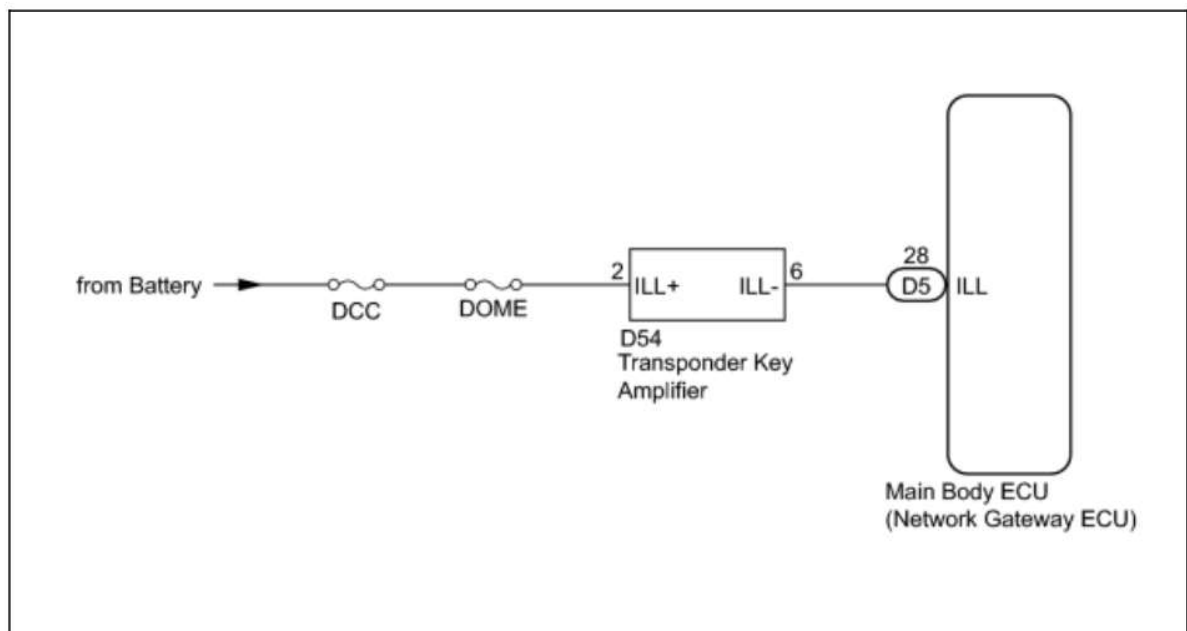
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000055AM000X
Title: LIGHTING (INT): LIGHTING SYSTEM: Ignition Key Cylinder Light Circuit (2013 FR-S)		

Ignition Key Cylinder Light Circuit

DESCRIPTION

The main body ECU (network gateway ECU) controls the operation of the transponder key amplifier (ignition key cylinder light).

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

Inspect the fuses for circuits related to this system before performing the following inspection procedure.

PROCEDURE

1. PERFORM ACTIVE TEST USING TECHSTREAM

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Main Body / Active Test.

(e) Check that the light operates.

ON:

Ignition key cylinder light comes on

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Key Ring Light	Ignition key cylinder light	ON/OFF	-

NG ► **INSPECT TRANSPONDER KEY AMPLIFIER**

OK ► **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

2. INSPECT TRANSPONDER KEY AMPLIFIER

(a) Remove the transponder key amplifier **INFO** .

(b) Inspect the transponder key amplifier **INFO** .

OK:

Transponder key amplifier is normal.

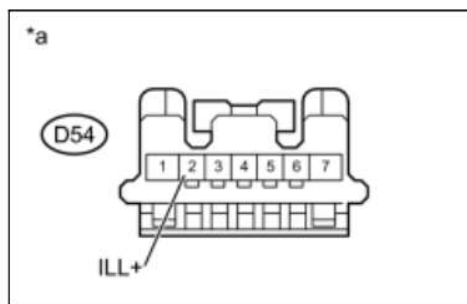
NG ► **REPLACE TRANSPONDER KEY AMPLIFIER**

OK



3. CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY AMPLIFIER - BATTERY)

(a) Disconnect the D54 transponder key amplifier connector.



(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D54-2 (ILL+) - Body ground	Always	11 to 14 V

Text in Illustration

Front view of wire harness connector

*a	(to transponder key amplifier)
----	--------------------------------

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


4.	CHECK HARNESS AND CONNECTOR (TRANSPONDER KEY AMPLIFIER - MAIN BODY ECU (NETWORK GATEWAY ECU))
----	--

- (a) Disconnect the D54 transponder key amplifier connector.
- (b) Disconnect the D5 main body ECU (network gateway ECU) connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D54-6 (ILL-) - D5-28 (ILL)	Always	Below 1 Ω
D5-28 (ILL) - Body ground	Always	10 kΩ or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK  **REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)**



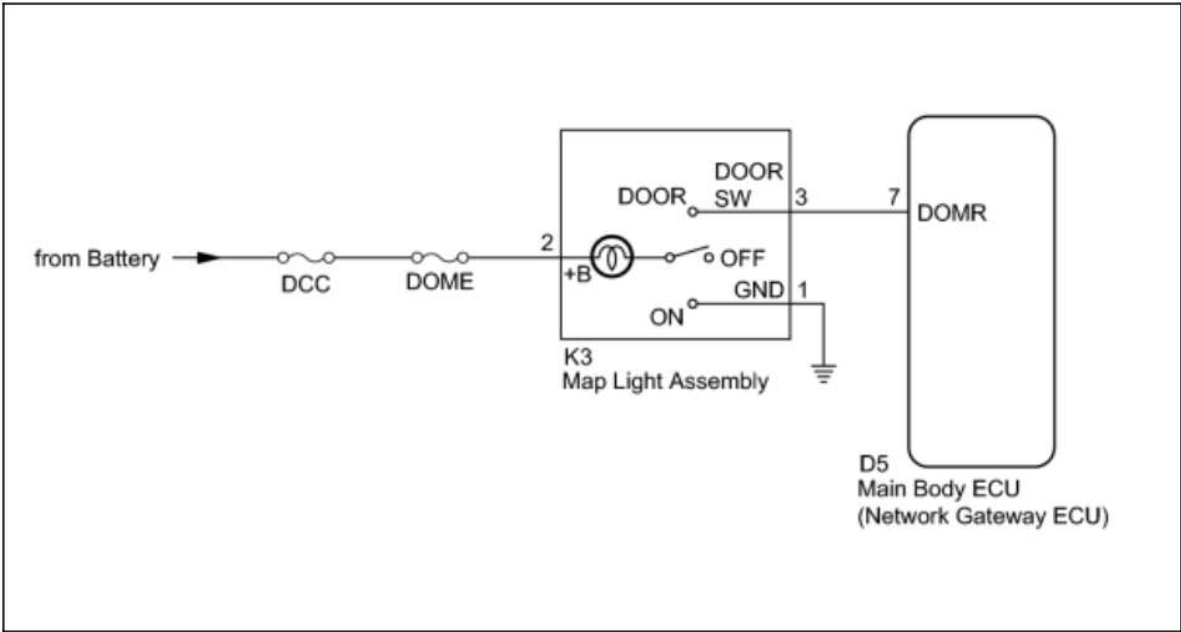
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001T9V05MX
Title: LIGHTING (INT): LIGHTING SYSTEM: Interior Light Circuit (2013 FR-S)		

Interior Light Circuit

DESCRIPTION

The main body ECU (network gateway ECU) controls the operation of the map light assembly

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:
Inspect the fuses for circuits related to this system before performing the following inspection procedure.

PROCEDURE

1.	PERFORM ACTIVE TEST USING TECHSTREAM
----	--------------------------------------

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch to ON.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Body Electrical / Main Body / Active Test.

(e) Check that the lights operate.

OK:

Map light fades in.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Illuminated Entry System	Map light assembly	ON/OFF	-

NG ► **INSPECT MAP LIGHT ASSEMBLY**

OK ► **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

2. INSPECT MAP LIGHT ASSEMBLY

(a) Remove the map light assembly **INFO**.

(b) Inspect the map light assembly **INFO**.

OK:

Map light assembly is normal.

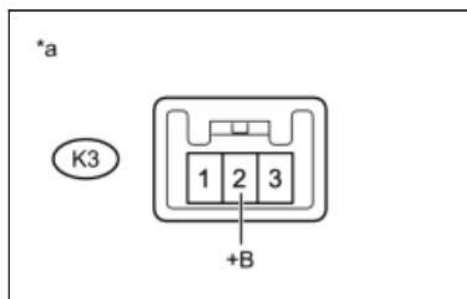
NG ► **REPLACE MAP LIGHT ASSEMBLY**

OK



3. CHECK HARNESS AND CONNECTOR (BATTERY - MAP LIGHT ASSEMBLY)

(a) Disconnect the K3 map light assembly connector.



(b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K3-2 (+B) - Body ground	Always	11 to 14 V

Text in Illustration

*a	Front view of wire harness connector (to map light assembly)
----	--

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


4.	CHECK HARNESS AND CONNECTOR (MAP LIGHT ASSEMBLY - MAIN BODY ECU (NETWORK GATEWAY ECU))
-----------	---

- (a) Disconnect the K3 map light assembly connector.
- (b) Disconnect the D5 main body ECU (network gateway ECU) connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
K3-3 (DOOR SW) - D5-7 (DOMR)	Always	Below 1 Ω
D5-7 (DOMR) - Body ground	Always	10 kΩ or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK  **REPLACE MAIN BODY ECU (NETWORK GATEWAY ECU)**



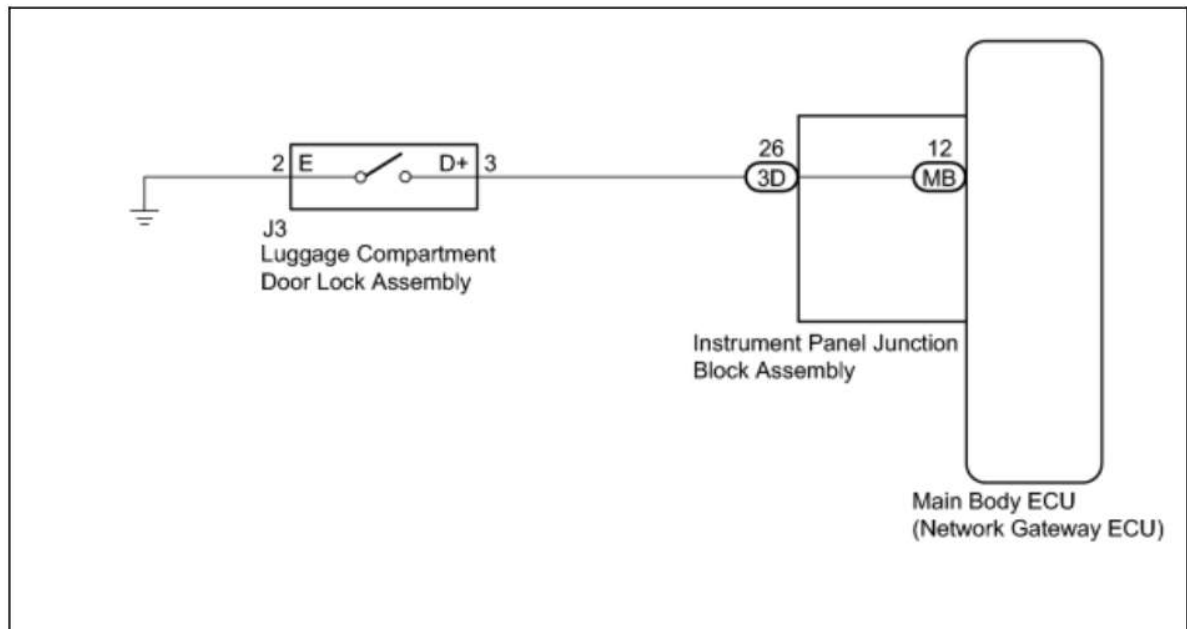
Last Modified: 3-27-2012	6.4 J	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000011T306SX
Title: LIGHTING (INT): LIGHTING SYSTEM: Luggage Compartment Door Courtesy Switch Circuit (2013 FR-S)		

Luggage Compartment Door Courtesy Switch Circuit

DESCRIPTION

The main body ECU (network gateway ECU) detects the condition of the luggage compartment door lock assembly using this circuit.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1. READ VALUE USING TECHSTREAM

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.
- Enter the following menus: Body Electrical / Main Body / Data List.
- Read the display on the Techstream.

OK:

Normal conditions listed above are displayed.

Main Body

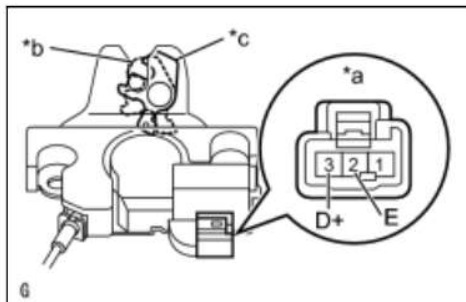
TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Luggage Courtesy SW	Luggage compartment door courtesy switch signal/ON or OFF	ON: Luggage compartment door open OFF: Luggage compartment door closed	-

NG ► **INSPECT LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY**

OK ► **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**

2. INSPECT LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY

(a) Remove the luggage compartment door lock assembly **INFO**.



(b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	DOOR LOCK CONDITION	SPECIFIED CONDITION
3 (D+) - 2 (E)	Open (Unlock)	Below 1 Ω
3 (D+) - 2 (E)	Close (Lock)	10 k Ω or higher

Text in Illustration

*a	Component without harness connected (Luggage Compartment Door Lock Assembly)
*b	Close (Lock)
*c	Open (Unlock)

NG ► **REPLACE LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY**

OK
▼

3.

CHECK HARNESS AND CONNECTOR (LUGGAGE COMPARTMENT DOOR LOCK ASSEMBLY - INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY)

- (a) Disconnect the 3D instrument panel junction block assembly connector.
- (b) Disconnect the J3 luggage compartment door lock assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
J3-3 (D+) - 3D-26	Always	Below 1 Ω
J3-3 (D+) - Body ground	Always	10 kΩ or higher
J3-2 (E) - Body ground	Always	Below 1 Ω

NG

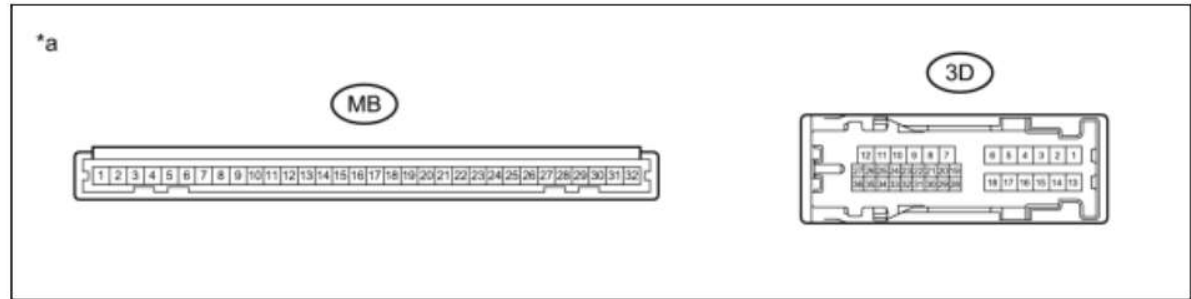
REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4.

INSPECT INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY

- (a) Remove the instrument panel junction block assembly INFO.
- (b) Remove the main body ECU (network gateway ECU) from the instrument panel junction block assembly.
- (c) Measure the resistance according to the value(s) in the table below.



Text in Illustration

*a	Component without harness connected (Instrument Panel Junction Block Assembly)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3D-26 - MB-12	Always	Below 1 Ω

NG ▶ **REPLACE INSTRUMENT PANEL JUNCTION
BLOCK ASSEMBLY**

OK ▶ **REPLACE MAIN BODY ECU (NETWORK
GATEWAY ECU)**



Last Modified: 3-27-2012	6.4 D	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002R6C02ZX
Title: LIGHTING (INT): LIGHTING SYSTEM: OPERATION CHECK (2013 FR-S)		

OPERATION CHECK

1. INSPECT INTERIOR LIGHT CONTROL OPERATION

NOTICE:

Perform this inspection with the customize parameters at the initial settings.

HINT:

The interior light control illuminates the lights below.

- Ignition Key Cylinder Light
- Map Light

(a) The operation and conditions of this control are described below.

OPERATION	CONDITION
Fade in and illuminate constantly	Any door is opened when all doors are closed.
Illuminate for 15 seconds, and then fade out	When any of the following conditions is met, the lights illuminate for 15 seconds, and then fade out: • Any door is unlocked when the ignition switch is off with all doors closed and locked. • The ignition switch is turned from ON to off when all doors are closed. • All doors are closed after any door is opened and the ignition switch off.
Fade out immediately	When any of the following conditions is met, the lights fade out immediately: • The ignition switch is turned from off to ACC when all doors are closed. • All doors are locked when the ignition switch is off, all doors are closed and any door is unlocked. • All doors are locked again when all doors are already closed and locked.

2. BATTERY SAVING CONTROL OPERATION

NOTICE:

Perform this inspection with the customize parameters at the initial settings.

HINT:

The lights controlled by battery saving control are as follows:

- Ignition Key Cylinder Light
- Map Light
- Luggage Compartment Light

(a) The operation and conditions of this control are described below.

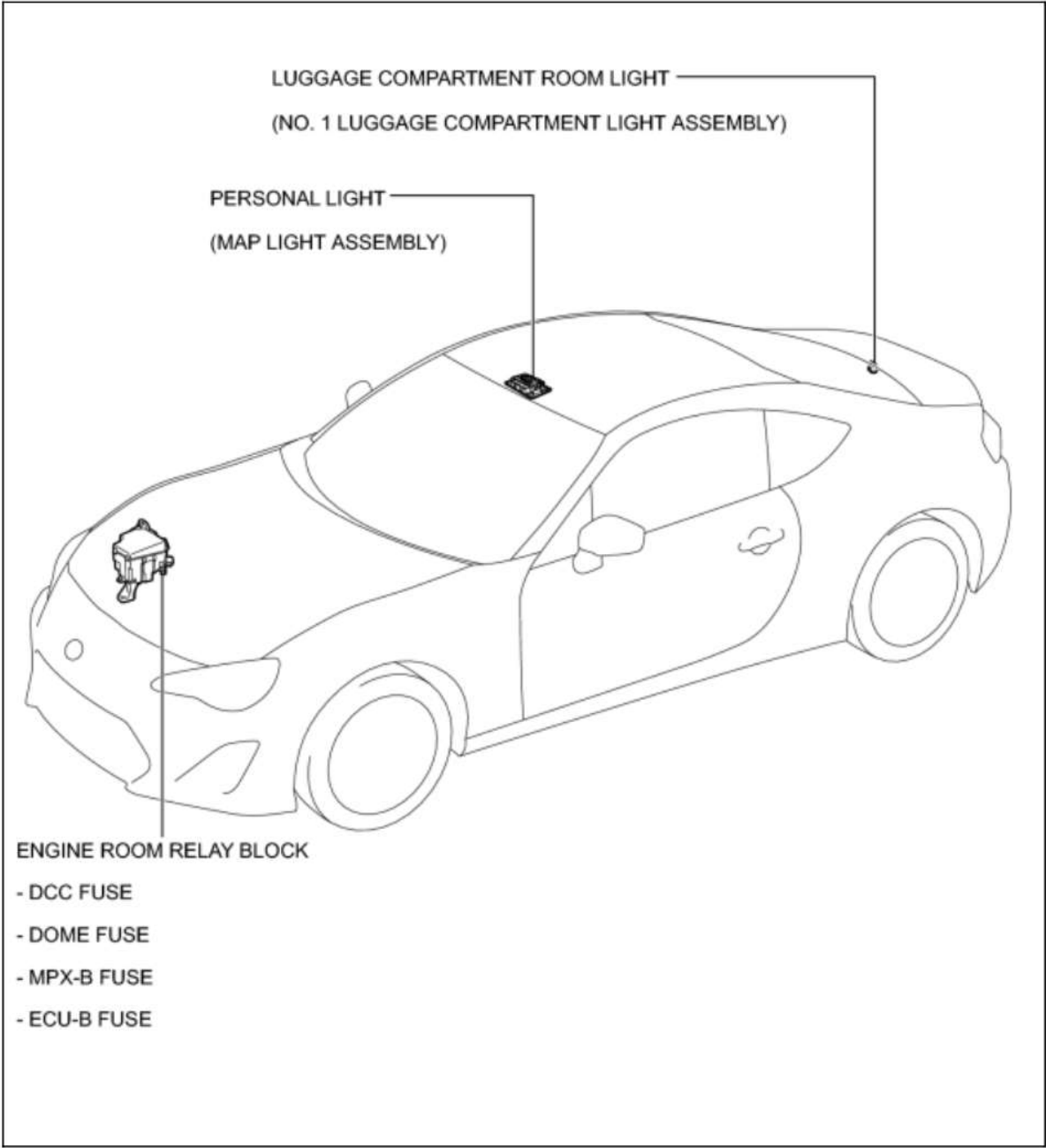
OPERATION	CONDITION
Battery saving	When 20 minutes elapse after the ignition switch is turned from ACC or ON to off and the lights that operate remain on, the lights are turned off. HINT: Battery saving control is canceled when any of the following operations is performed before the lights are turned off by battery saving control. After the operation is performed, the lights remain on for another 20 minutes and then the lights are turned off. • The ignition switch is turned ACC or ON • Any door is opened and closed • The luggage compartment door is opened and closed • Any door is unlocked



Last Modified: 3-27-2012	6.4 R	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000000PKL05UX
Title: LIGHTING (INT): LIGHTING SYSTEM: PARTS LOCATION (2013 FR-S)		

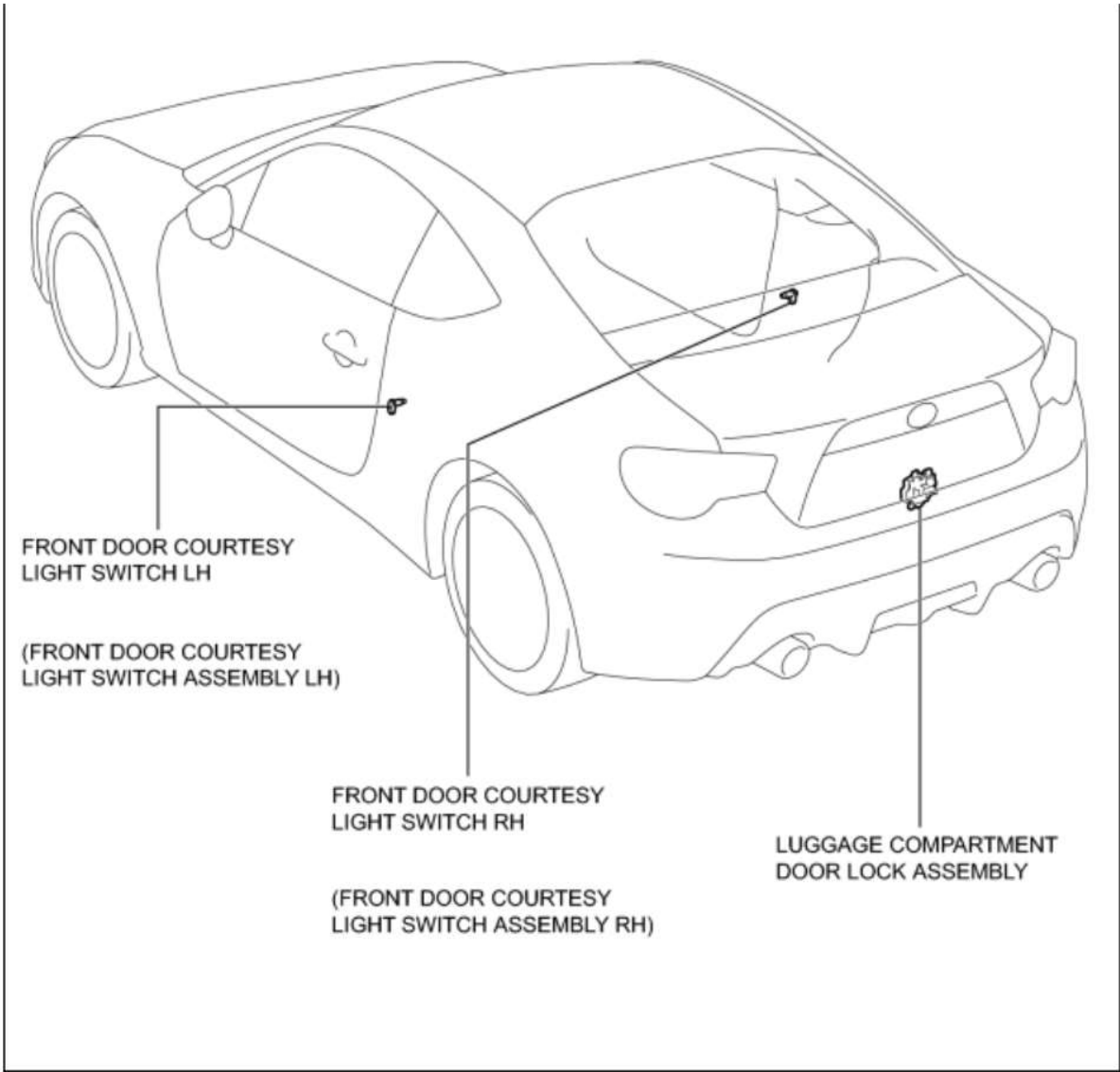
PARTS LOCATION

ILLUSTRATION



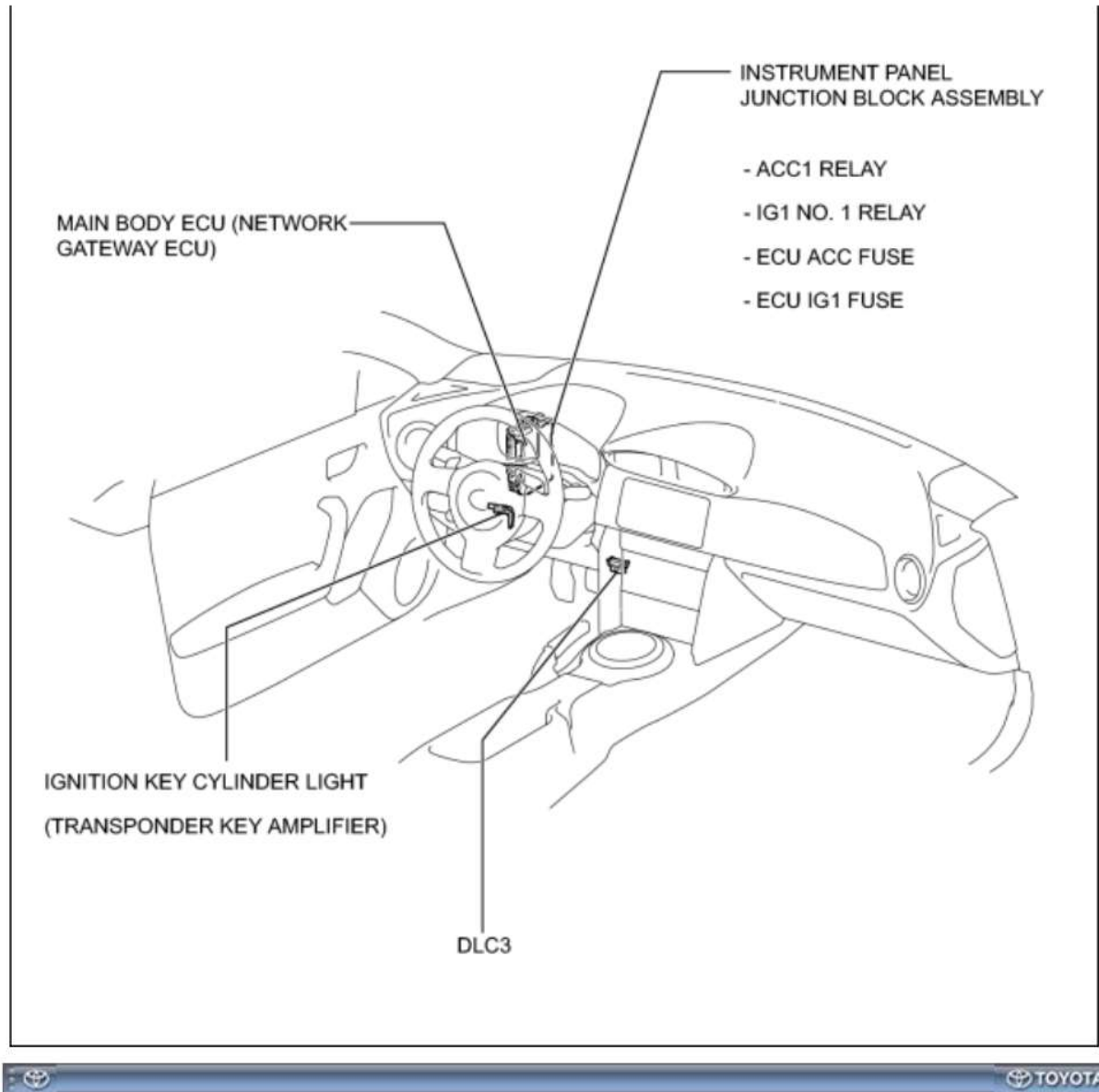
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ILLUSTRATION



ILLUSTRATION

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Last Modified: 3-27-2012	6.4 L	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000004PDO00PX
Title: LIGHTING (INT): LIGHTING SYSTEM: PRECAUTION (2013 FR-S)		

PRECAUTION

1. PRECAUTIONS WHEN USING TECHSTREAM

- (a) When using the Techstream with the ignition switch off to troubleshoot:

Connect the Techstream to the vehicle, and turn the courtesy light switch on and off at 1.5-second intervals until communication between the Techstream and the vehicle begins.

- (b) After all DTCs are cleared, check if the trouble occurs again 6 seconds after the ignition switch is turned to ON.



Last Modified: 3-27-2012	6.4 T	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002CE20B4X
Title: LIGHTING (INT): LIGHTING SYSTEM: PROBLEM SYMPTOMS TABLE (2013 FR-S)		

PROBLEM SYMPTOMS TABLE

HINT:

Use the table below to help determine the cause of problem symptoms. If multiple suspected areas are listed, the potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.

Illuminated Entry System (Interior Light Control)

SYMPTOM	SUSPECTED AREA	SEE PAGE
Illuminated entry system does not operate.	Interior light circuit	INFO
	Main body ECU (Network gateway ECU)	INFO
	Harness or connector	-
Illuminated entry system does not operate with door opening or closing operation.	Door courtesy switch circuit	INFO
	Main body ECU (Network gateway ECU)	INFO
	Harness or connector	-
Illuminated entry system does not operate with door lock or unlock operation.	Main body ECU (Network gateway ECU)	INFO
	Harness or connector	-
Illuminated entry system does not operate with ignition switch operation.	IG signal circuit	INFO
	ACC signal circuit	INFO
	Main body ECU (Network gateway ECU)	INFO
	Harness or connector	-

Map Light

SYMPTOM	SUSPECTED AREA	SEE PAGE
Map light assembly does not illuminate.	Bulb	-
	Map light assembly	INFO
	Harness or connector	-

Battery Saving Control

SYMPTOM	SUSPECTED AREA	SEE PAGE
Battery saving function does not operate.	IG signal circuit	

		INFO
	ACC signal circuit	INFO
	Door courtesy switch circuit	INFO
	Main body ECU (Network gateway ECU)	INFO

Ignition Key Cylinder Light

SYMPTOM	SUSPECTED AREA	SEE PAGE
Ignition Key Cylinder Light does not illuminate.	Ignition key cylinder light (Transponder key amplifier)	INFO
	Ignition key cylinder light circuit	INFO
	Main body ECU (Network gateway ECU)	INFO
	Harness or connector	-

Luggage Compartment Room Light

SYMPTOM	SUSPECTED AREA	SEE PAGE
Luggage compartment room light does not illuminate.	Bulb	-
	No. 1 luggage compartment light assembly	INFO
	Luggage compartment door courtesy switch circuit	INFO
	Harness or connector	-
	Instrument panel junction block assembly	INFO
	Main body ECU (Network gateway ECU)	INFO



Last Modified: 3-27-2012	6.4 D	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000002CDY04JX
Title: LIGHTING (INT): LIGHTING SYSTEM: SYSTEM DESCRIPTION (2013 FR-S)		

SYSTEM DESCRIPTION

1. ILLUMINATED ENTRY SYSTEM

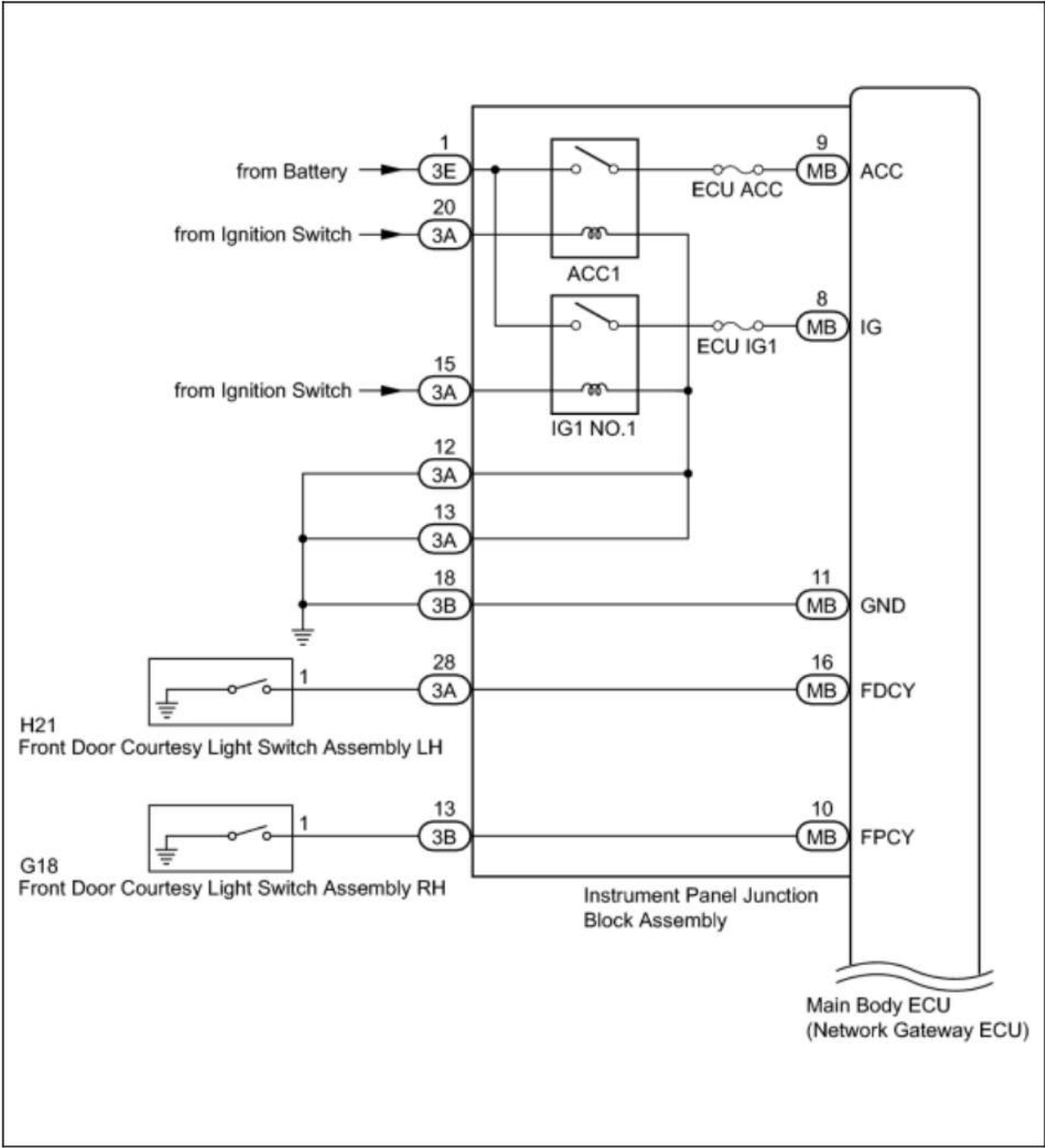
(a) The illuminated entry system has the following control functions:

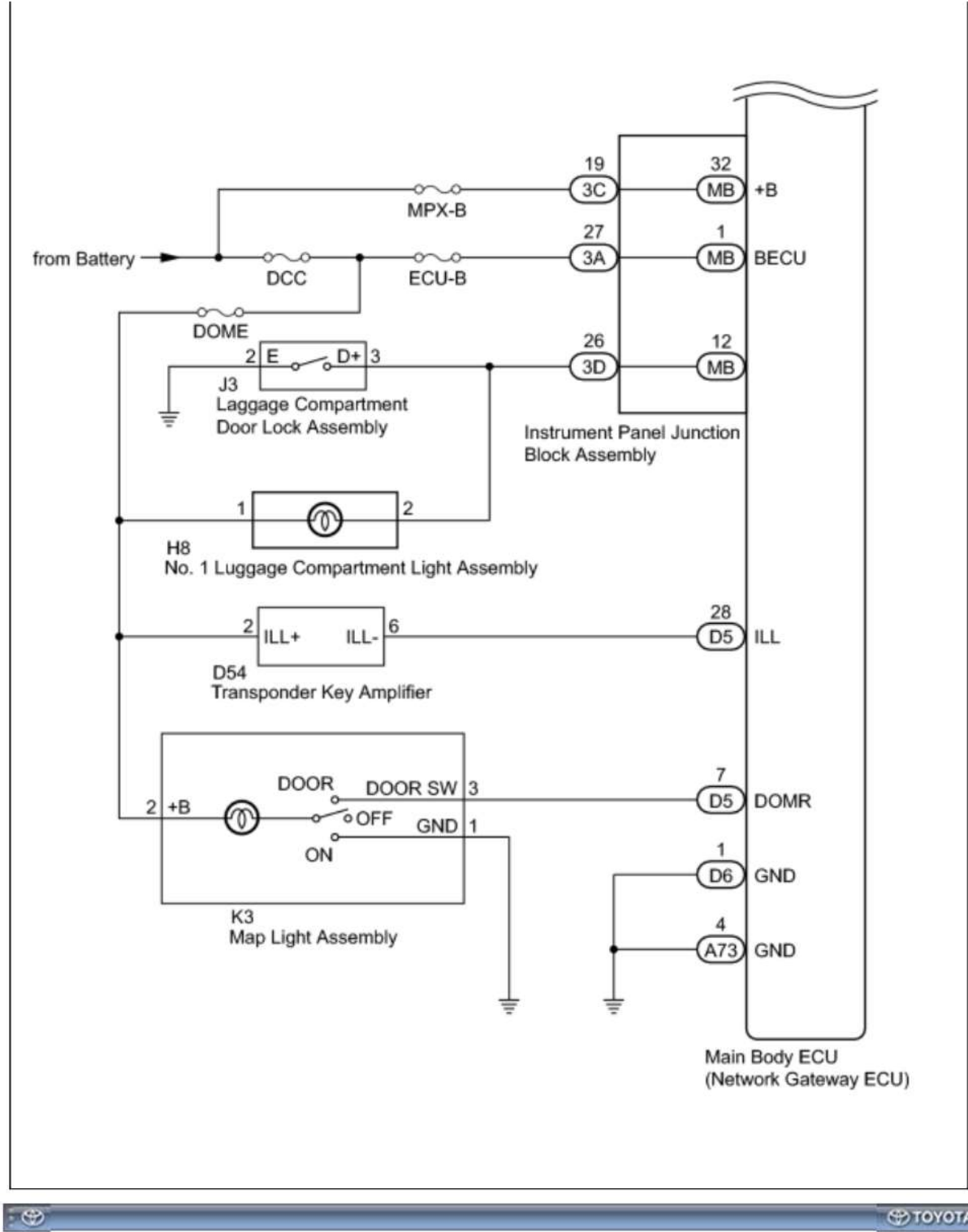
CONTROL	OUTLINE	LIGHTS THAT OPERATE
Door Lock/Unlock-linked	When any door is unlocked, the lights that operate turn on.	• Ignition Key Cylinder Light • Map Light
	When all doors are locked, the lights that operate turn off.	
Door Open/Close-linked	When any door is opened, the lights that operate turn on.	• Ignition Key Cylinder Light • Map Light
	When all doors are closed, the lights that operate turn off.	
Ignition Switch-linked	When the ignition switch is turned from ON or ACC to off, the lights that operate turn on.	• Ignition Key Cylinder Light • Map Light
	When the ignition switch is turned from off to ON or ACC, the lights that operate turn off.	
Delay	When approximately 15 seconds elapse after any of the following conditions is met, the lights that operate turn off: • The door unlock-linked function is active. • Any door is opened and then all doors are closed when the ignition switch is off.	• Ignition Key Cylinder Light • Map Light
Battery Saving	When 20 minutes elapse after the ignition switch is turned from ACC or ON to off and the lights that operate remain on, the lights are turned off. HINT: Battery saving control is canceled when any of the following operations is performed before the lights are turned off by battery saving control. After the operation is performed, the lights remain on for another 20 minutes and then the lights are turned off. • The ignition switch is turned ACC or ON • Any door is opened and closed • The luggage compartment door is opened and closed • Any door is unlocked	• Ignition Key Cylinder Light • Map Light • Luggage Compartment Light



Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000351Z02PX
Title: LIGHTING (INT): LIGHTING SYSTEM: SYSTEM DIAGRAM (2013 FR-S)		

SYSTEM DIAGRAM



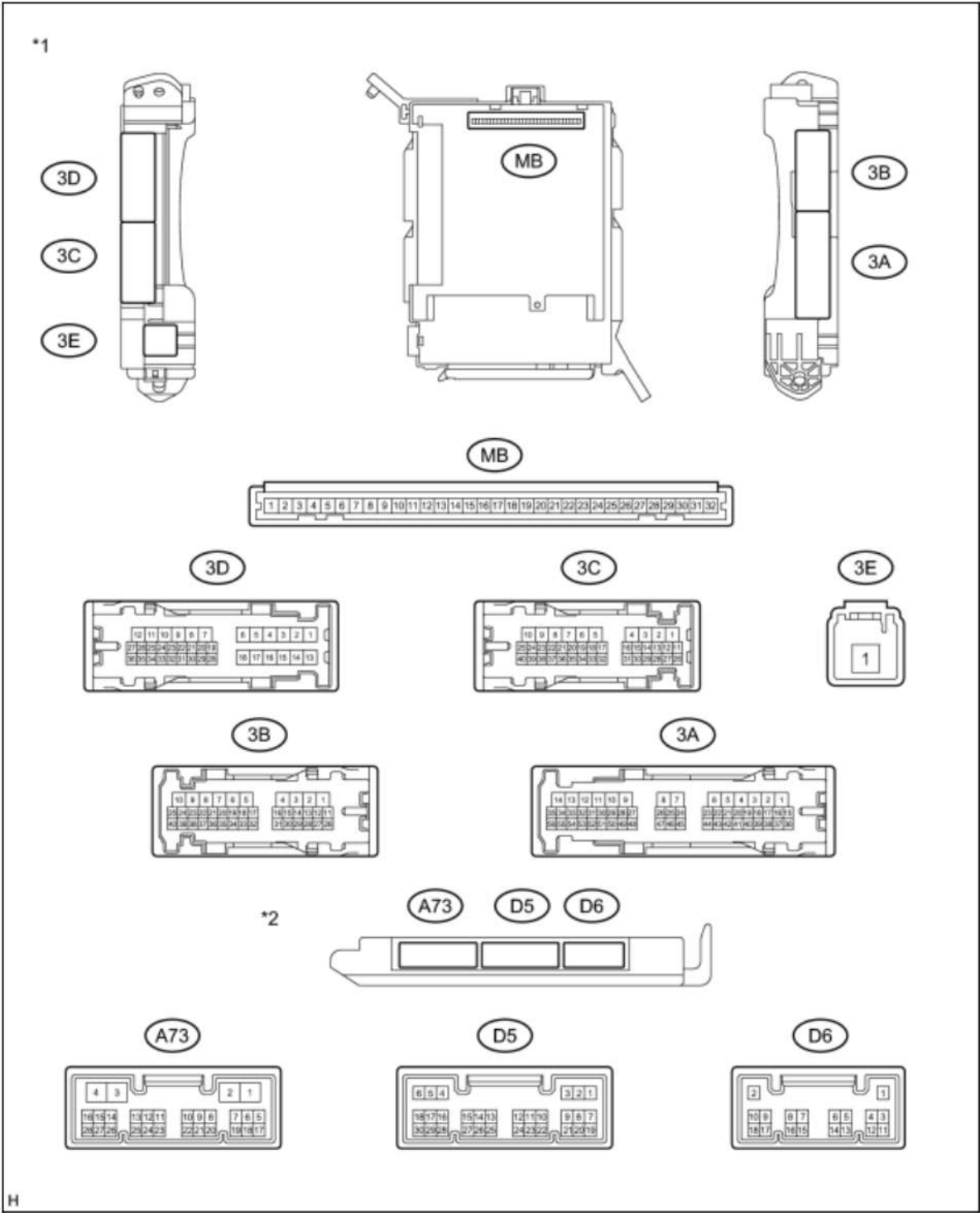


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Last Modified: 3-27-2012	6.4 U	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000026E702JX
Title: LIGHTING (INT): LIGHTING SYSTEM: TERMINALS OF ECU (2013 FR-S)		

TERMINALS OF ECU

1. CHECK INSTRUMENT PANEL JUNCTION BLOCK ASSEMBLY AND MAIN BODY ECU (NETWORK GATEWAY ECU)



Text in Illustration

*1	Instrument Panel Junction Block Assembly	*2	Main Body ECU (Network Gateway ECU)
----	--	----	-------------------------------------

(a) Disconnect the 3A, 3C, 3E, A73 and D6 instrument panel junction block assembly and main body ECU (network gateway ECU) connectors.

(b) Measure the voltage according to the value(s) in the table below.

TERMINAL NO.	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
3A-15 - Body ground	W - Body ground	IG power supply	Ignition switch ON	11 to 14 V
			Ignition switch off	Below 1 V
3A-20 - Body ground	SB - Body ground	ACC power supply	Ignition switch ACC	11 to 14 V
			Ignition switch off	Below 1 V
3A-27 - Body ground	G-R - Body ground	Battery power supply	Always	11 to 14 V
3C-19 - Body ground	L-R - Body ground	Battery power supply	Always	11 to 14 V
3E-1 - Body ground	B-R - Body ground	Battery power supply	Always	11 to 14 V

If the result is not as specified, there may be a malfunction in the wire harness.

(c) Measure the resistance according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
3A-12 - Body ground	B - Body ground	Ground	Always	Below 1 Ω
3A-13 - Body ground	B - Body ground	Ground	Always	Below 1 Ω
A73-4 (GND) - Body ground	B-Y - Body ground	Ground	Always	Below 1 Ω
D6-1 (GND) - Body ground	B - Body ground	Ground	Always	Below 1 Ω

If the result is not as specified, there may be a malfunction in the wire harness.

(d) Reconnect the 3A, 3C, 3E, A73 and D6 instrument panel junction block assembly and main body ECU (network gateway ECU) connectors.

(e) Measure the voltage and check for pulses according to the value(s) in the table below.

TERMINAL NO. (SYMBOL)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
3A-28 - Body	V - Body	Front door courtesy	Front door LH open	Below 1 V

ground	ground	light switch LH input	Front door LH closed	11 to 14 V
3B-13 - Body ground	GR - Body ground	Front door courtesy light switch RH input	Front door RH open	Below 1 V
			Front door RH closed	11 to 14 V
3D-26 - Body ground	SB - Body ground	Luggage compartment door courtesy light switch input	Luggage compartment door open	Below 1 V
			Luggage compartment door closed	11 to 14 V
D5-7 (DOMR) - Body ground	L - Body ground	Illuminated entry drive output (to map light assembly)	Map light switch in DOOR position and map light assembly on	Below 1 V
			Map light switch in DOOR position and map light assembly off	11 to 14 V
D5-28 (ILL) - Body ground	Y - Body ground	Ignition key cylinder light drive output	Ignition switch off, ignition key cylinder light off (when operated by illuminated entry system)	11 to 14 V
			Ignition switch off, ignition key cylinder light on (when operated by illuminated entry system)	Below 1 V

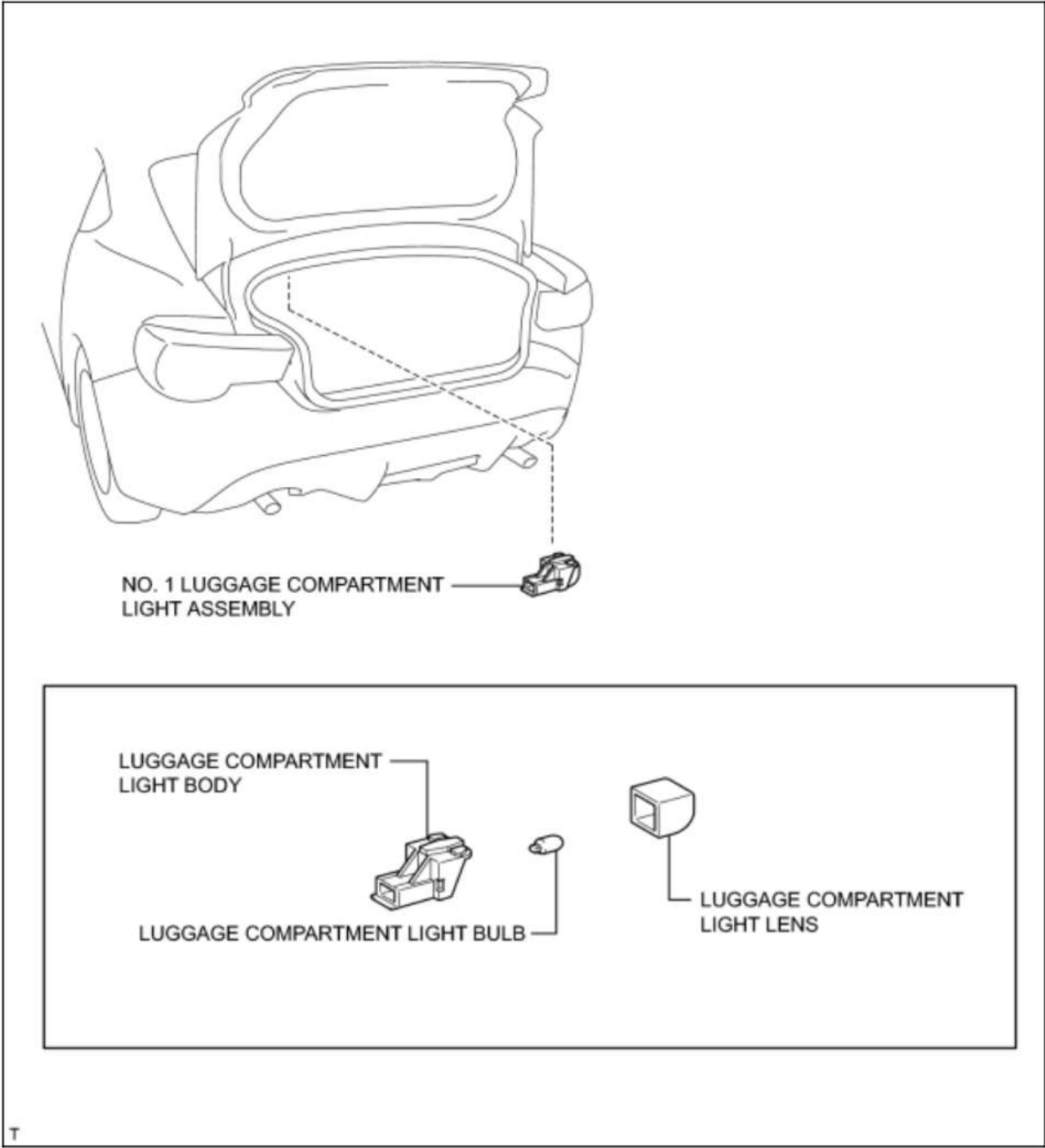
If the result is not as specified, the main body ECU (network gateway ECU) or instrument panel junction block assembly may have a malfunction.



Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUB01PX
Title: LIGHTING (INT): LUGGAGE COMPARTMENT ROOM LIGHT: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



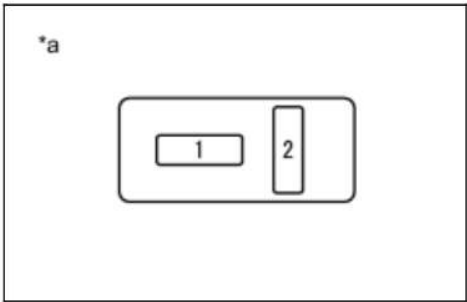
Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM00000198305RX
Title: LIGHTING (INT): LUGGAGE COMPARTMENT ROOM LIGHT: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT NO. 1 LUGGAGE COMPARTMENT LIGHT ASSEMBLY

(a) Apply battery voltage to the terminals and check that the light comes on.

OK:



CONDITION	SPECIFIED CONDITION
Battery positive (+) - Terminal 1 Battery negative (-) - Terminal 2	Luggage compartment light Comes on

If the result is not specified, replace the bulb or the No. 1 luggage compartment light assembly.

Text in Illustration

*a	Component without harness connected (No. 1 Luggage Compartment Light Assembly)
----	--



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MU001RX
Title: LIGHTING (INT): LUGGAGE COMPARTMENT ROOM LIGHT: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL LUGGAGE COMPARTMENT LIGHT BULB

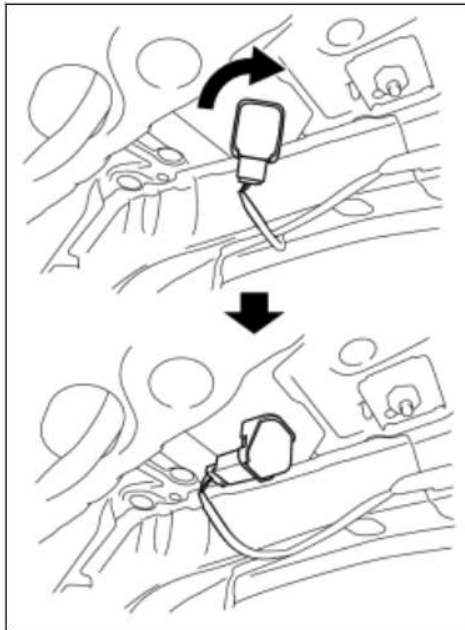
- (a) Install the luggage compartment light bulb to the luggage compartment light body.

2. INSTALL LUGGAGE COMPARTMENT LIGHT LENS

- (a) Engage the 2 claws to install the luggage compartment light lens.

3. INSTALL NO. 1 LUGGAGE COMPARTMENT LIGHT ASSEMBLY

- (a) Connect the connector.



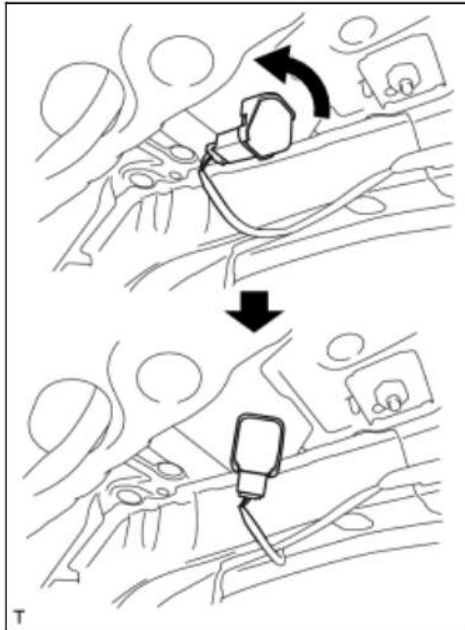
- (b) Turn the No. 1 luggage compartment light assembly in the direction indicated by the arrow in the illustration, and install it.



Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUP01RX
Title: LIGHTING (INT): LUGGAGE COMPARTMENT ROOM LIGHT: REMOVAL (2013 FR-S)		

REMOVAL

1. REMOVE NO. 1 LUGGAGE COMPARTMENT LIGHT ASSEMBLY



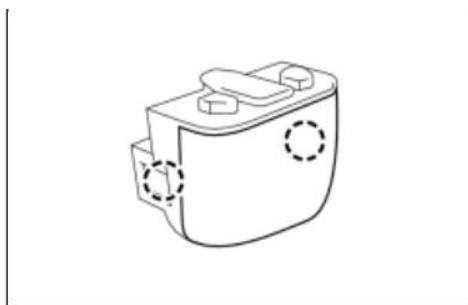
- (a) Turn the No. 1 luggage compartment light assembly in the direction indicated by the arrow in the illustration, and disconnect it.



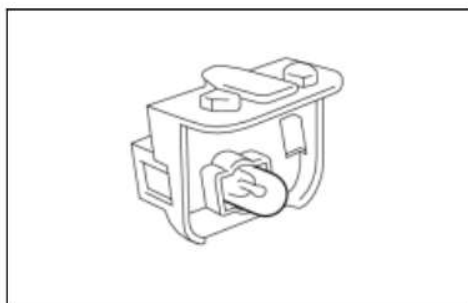
- (b) Disconnect the connector and remove the No. 1 luggage compartment light assembly.

2. REMOVE LUGGAGE COMPARTMENT LIGHT LENS

- (a) Disengage the 2 claws and remove the luggage compartment light lens.



3. REMOVE LUGGAGE COMPARTMENT LIGHT BULB



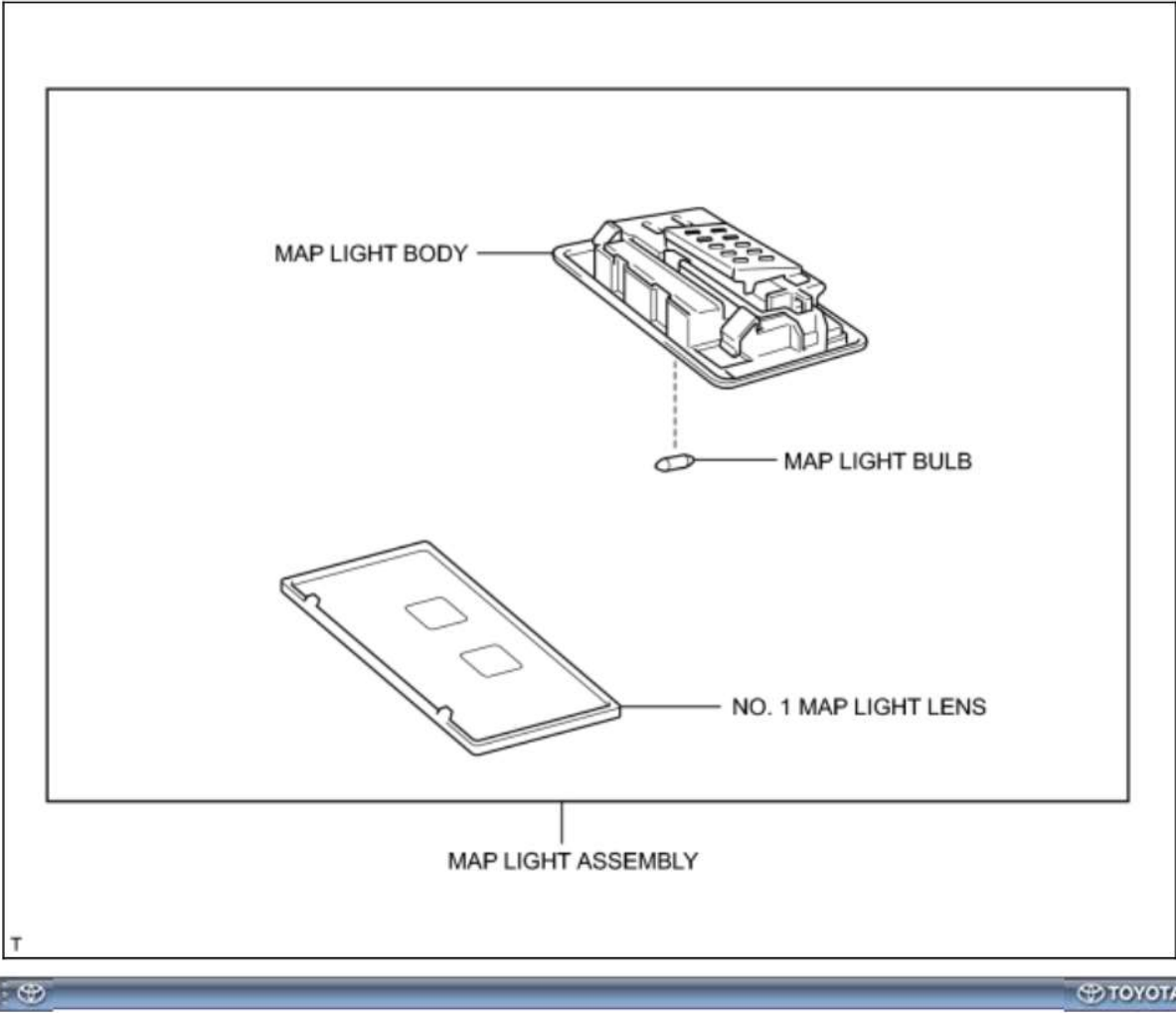
- (a) Remove the luggage compartment light bulb from the luggage compartment light body.



Last Modified: 3-27-2012	6.4 K	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MU9020X
Title: LIGHTING (INT): PERSONAL LIGHT: COMPONENTS (2013 FR-S)		

COMPONENTS

ILLUSTRATION



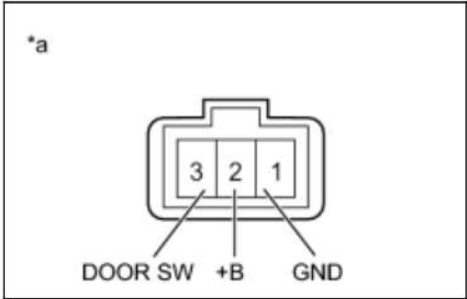
Last Modified: 3-27-2012	6.4 G	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000017LP009X
Title: LIGHTING (INT): PERSONAL LIGHT: INSPECTION (2013 FR-S)		

INSPECTION

1. INSPECT MAP LIGHT ASSEMBLY

- (a) Check the map light assembly operation.
 - (1) Apply battery voltage to the terminals and check that the light comes on.

OK:



CONDITION	SWITCH CONDITION	SPECIFIED CONDITION
Battery positive (+) - 2 (+B) Battery negative (-) - 1 (GND)	Map light switch ON	Map light comes on
Battery positive (+) - 2 (+B) Battery negative (-) - 3 (DOOR SW)	Map light switch DOOR	Map light comes on

If the result is not specified, replace the map light bulb or map light assembly.

Text in Illustration

*a	Component without harness connected (Map Light Assembly)
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Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUK026X
Title: LIGHTING (INT): PERSONAL LIGHT: INSTALLATION (2013 FR-S)		

INSTALLATION

1. INSTALL MAP LIGHT BULB

- (a) Install the map light bulb to the map light assembly.

2. INSTALL NO. 1 MAP LIGHT LENS

- (a) Engage the 2 claws to install the No. 1 map light lens.

3. INSTALL MAP LIGHT ASSEMBLY

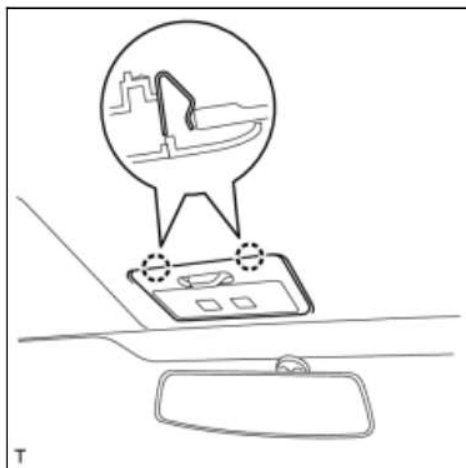
- (a) Connect each connector.
- (b) Engage the 2 guides.
- (c) Engage the 2 claws and install the map light assembly.



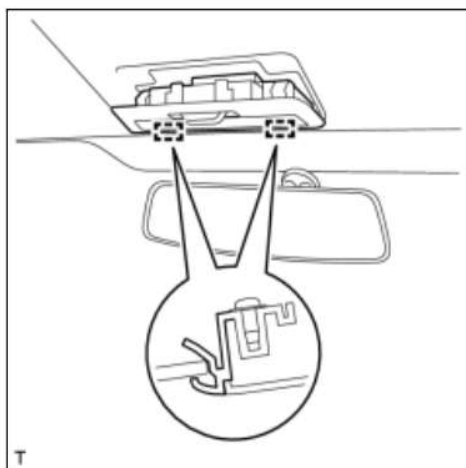
Last Modified: 3-27-2012	6.4 A	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000003MUL026X
Title: LIGHTING (INT): PERSONAL LIGHT: REMOVAL (2013 FR-S)		

REMOVAL

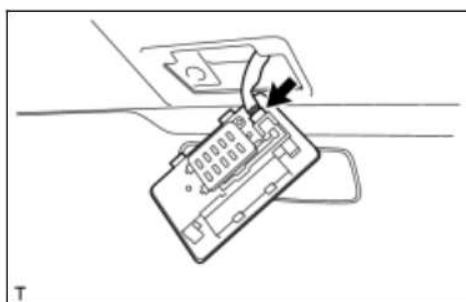
1. REMOVE MAP LIGHT ASSEMBLY



(a) Disengage the 2 claws.

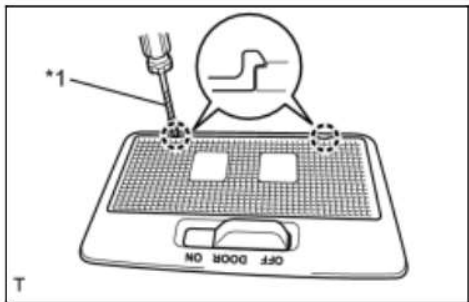


(b) Disengage the 2 guides and disconnect the map light assembly.



(c) Disconnect the connector and remove the map light assembly.

2. REMOVE NO. 1 MAP LIGHT LENS



(a) Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and remove the No. 1 map light lens.

Text in illustration

*1	Protective Tape
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3. REMOVE MAP LIGHT BULB

(a) Remove the map light bulb from the map light body.

