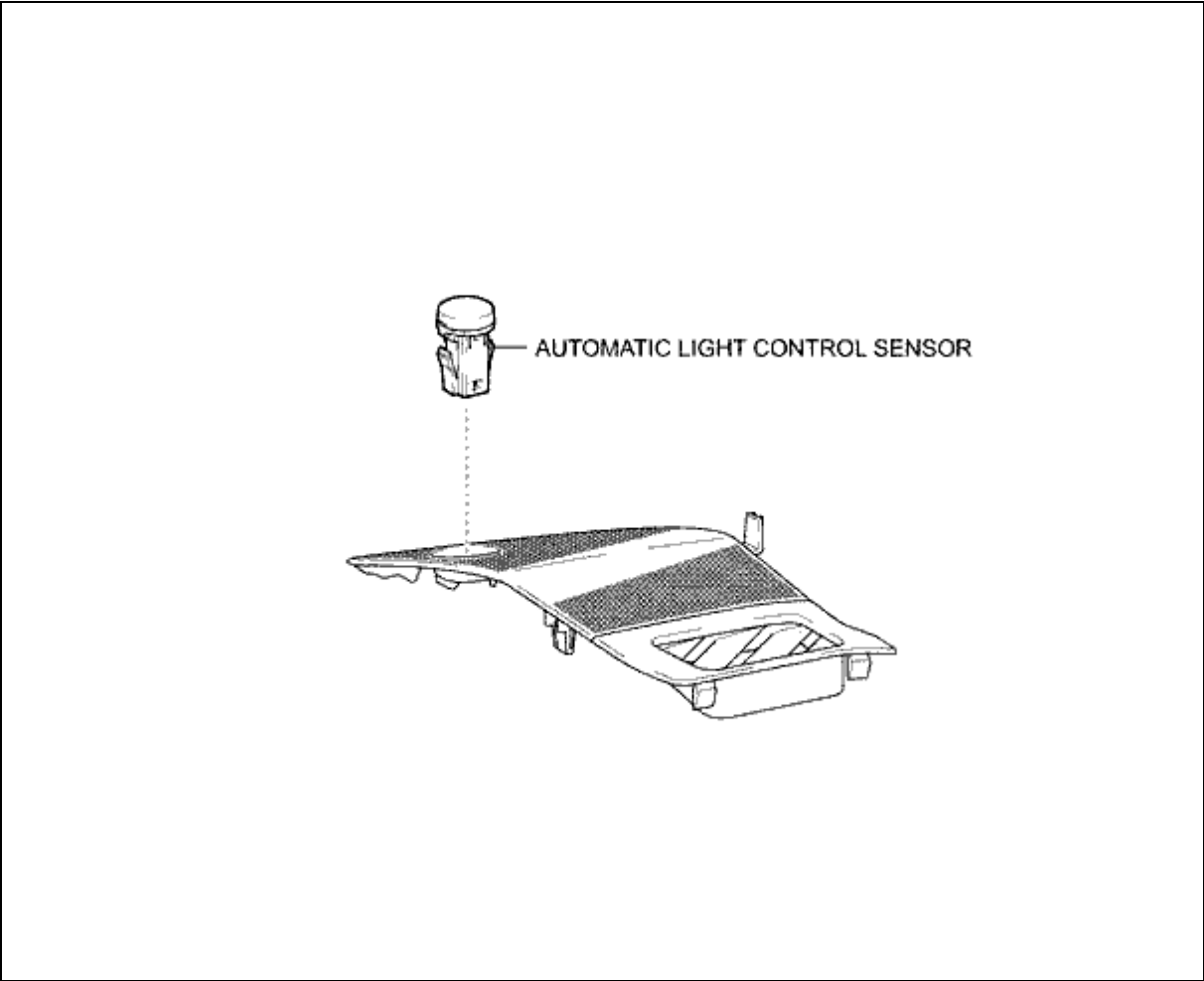


Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VV0000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: AUTOMATIC LIGHT CONTROL SENSOR: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VUY000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: AUTOMATIC LIGHT CONTROL SENSOR: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL AUTOMATIC LIGHT CONTROL SENSOR

(a) Engage the 2 claws to install the automatic light control sensor.

2. INSTALL NO. 2 INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000005VUZ000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: AUTOMATIC LIGHT CONTROL SENSOR: ON-VEHICLE INSPECTION; 2016 MY Tacoma [08/2015 -]		

ON-VEHICLE INSPECTION

1. REMOVE NO. 2 INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY

INFO

2. INSPECT AUTOMATIC LIGHT CONTROL SENSOR

(a) Check the voltage.

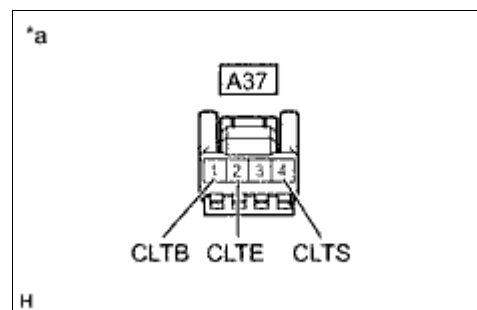
(1) Measure the voltage according to the value(s) in the table below.

Text in Illustration

*a	Component with harness connected (to Automatic Light Control Sensor)
----	---

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A37-1 (CLTB) - A37-2 (CLTE)	Ignition switch off	Below 1 V
	Ignition switch on (IG)	11 to 14 V



If the result is not as specified, repair or replace the wire harness.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A37-2 (CLTE) - Body ground	Always	Below 1 Ω

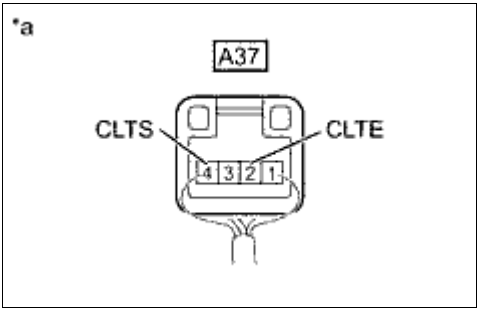
If the result is not as specified, repair or replace the wire harness.

(b) Connect the connector.

(c) Connect an oscilloscope to the automatic light control sensor connector.

Text in Illustration

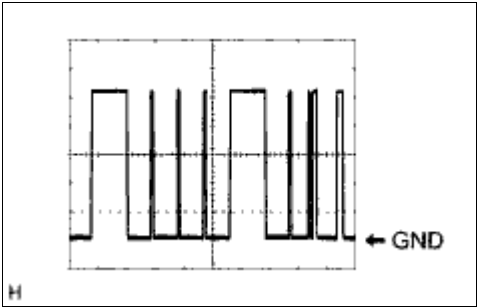
*a	Component with harness connected (Automatic Light Control Sensor)
----	--



(d) Check the waveform.

:

TESTER CONNECTION	TOOL SETTING	CONDITION	SPECIFIED CONDITION
A37-4 (CLTS) - A37-2 (CLTE)	2 V/DIV., 10 ms./DIV.	Ignition switch on (IG), light control switch in AUTO position	Correct waveform is as shown



HINT:

The communication waveform changes according to the surrounding brightness.

If the result is not as specified, replace the automatic light control sensor.

3. INSTALL NO. 2 INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VV1000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: AUTOMATIC LIGHT CONTROL SENSOR: REMOVAL; 2016 MY Tacoma [08/2015 -]		

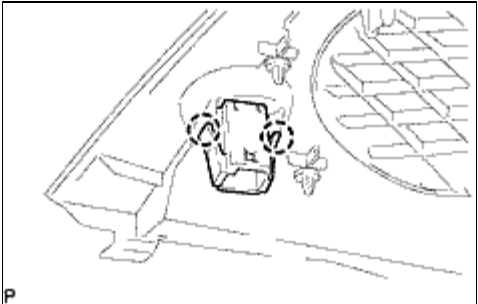
REMOVAL

1. REMOVE NO. 2 INSTRUMENT PANEL SPEAKER PANEL SUB-ASSEMBLY

INFO

2. REMOVE AUTOMATIC LIGHT CONTROL SENSOR

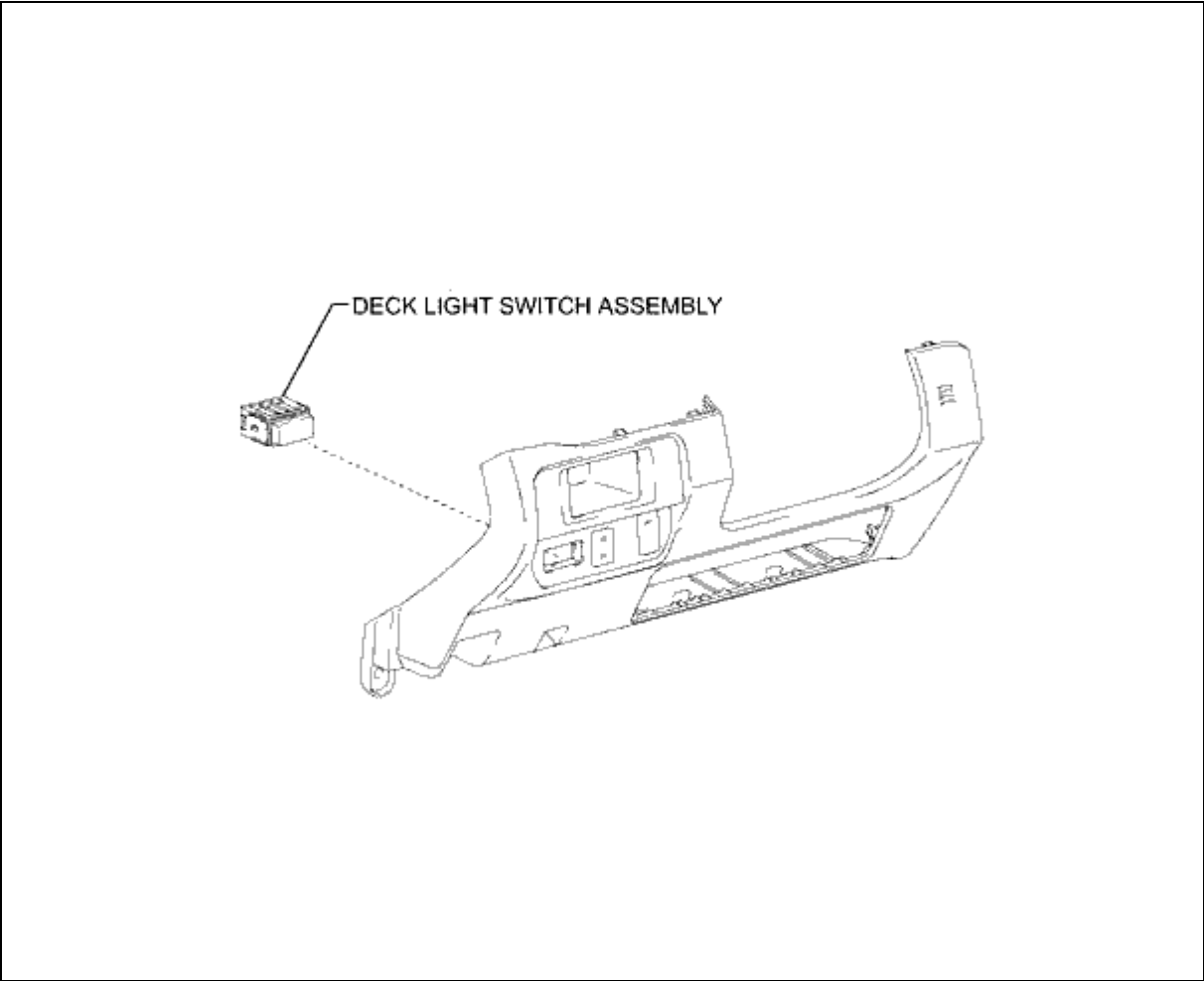
- (a) Disengage the 2 claws to remove the automatic light control sensor.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VP5000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT SWITCH: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000005VP4000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT SWITCH: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT DECK LIGHT SWITCH ASSEMBLY

(a) Check the resistance.

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

Text in Illustration

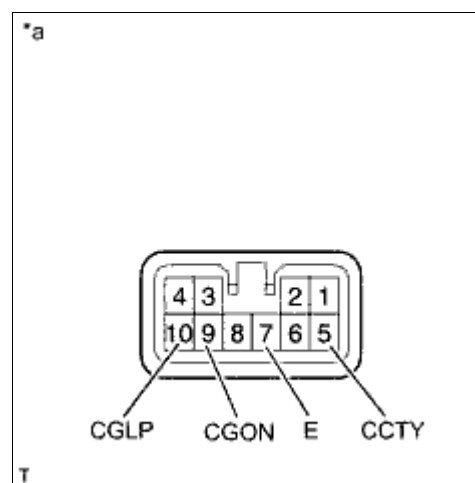
*a	Component without harness connected (Deck Light Switch Assembly)
----	---

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
5 (CCTY) - 9 (CGON)	Deck light switch ON	Below 1 Ω
	deck light switch DOOR	
	deck light switch OFF	10 k Ω or higher
10 (CGLP) - 7 (E)	deck light switch ON	Below 1 Ω
	deck light switch DOOR	10 k Ω or higher
	deck light switch OFF	

If the result is not as specified, replace the deck light switch assembly.

(b) Check the illumination.



- (1) Apply battery voltage to the connector and check the illumination condition.

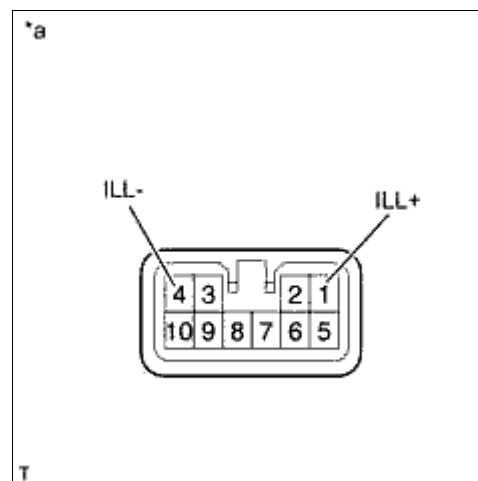
Text in Illustration

*a	Component without harness connected (Deck Light Switch Assembly)
----	---

OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → Terminal 1 (ILL+)	Illuminates
Battery negative (-) → Terminal 4 (ILL-)	

If the result is not as specified, replace the deck light switch assembly.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VP3000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT SWITCH: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL DECK LIGHT SWITCH ASSEMBLY

- (a) Engage the 2 claws to install the deck light switch assembly.

2. INSTALL INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VP6000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT SWITCH: REMOVAL; 2016 MY Tacoma [08/2015 -]		

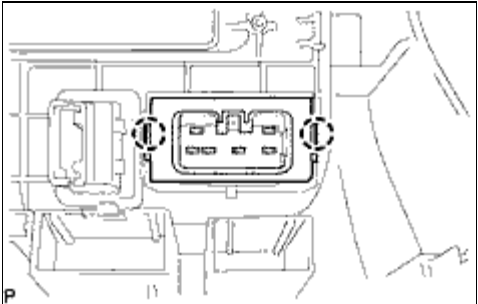
REMOVAL

1. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY

INFO

2. REMOVE DECK LIGHT SWITCH ASSEMBLY

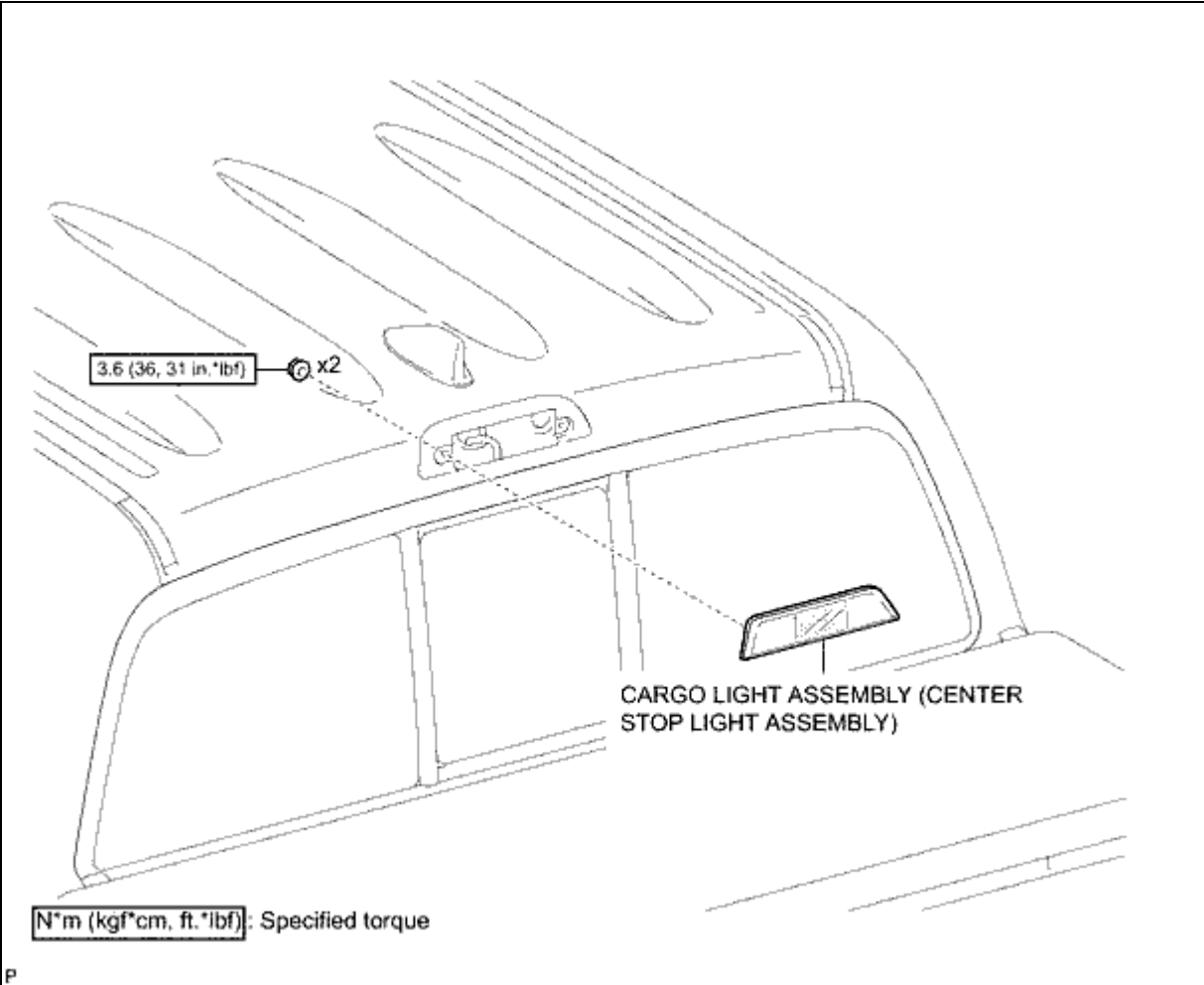
(a) Disengage the 2 claws to remove the deck light switch assembly.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VTD000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000005VTC000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT CARGO LIGHT ASSEMBLY (CENTER STOP LIGHT ASSEMBLY)

- (a) Check the illuminates.
- (1) Apply battery voltage to the connector and check the light illumination condition.

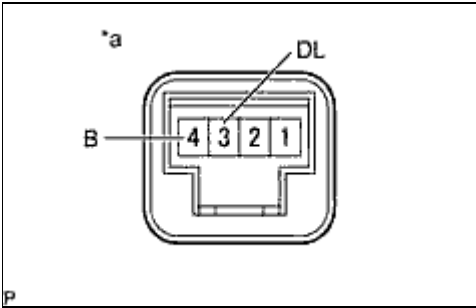
Text in Illustration

*a	Component without harness connected (Cargo Light Assembly (Center Stop Light Assembly))
----	--

OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → 3 (DL)	Cargo light illuminates
Battery negative (-) → 1 (E)	

If the result is not as specified, replace the cargo light assembly (center stop light assembly).



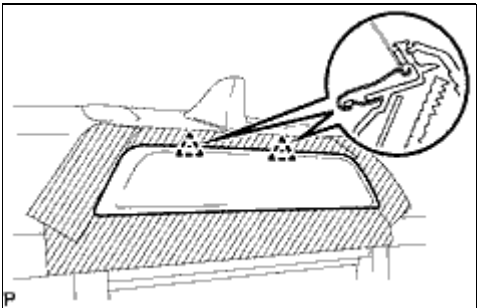
Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VTB000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL CARGO LIGHT ASSEMBLY (CENTER STOP LIGHT ASSEMBLY)

(a) Connect the connector.

(b) Engage the 2 clips to install the cargo light assembly (center stop light assembly).



(c) Install the 2 nuts.

Torque:

3.6 N·m {36 kgf·cm, 31in·lbf}

(d) Remove the protective tape.

2. INSPECT ROOF HEADLINING ASSEMBLY

- for Double Cab:

INFO

- for Access Cab:

INFO



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VTE000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: CARGO LIGHT: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE ROOF HEADLINING ASSEMBLY

- for Double Cab:

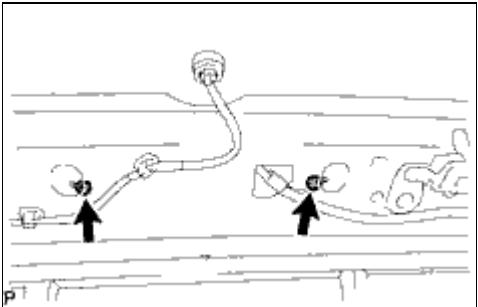
INFO

- for Access Cab:

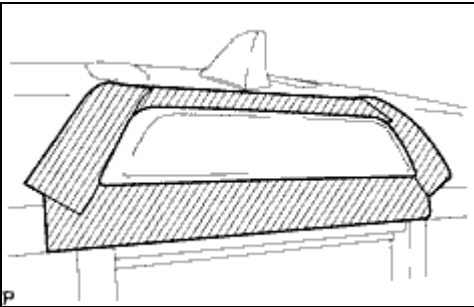
INFO

2. REMOVE CARGO LIGHT ASSEMBLY (CENTER STOP LIGHT ASSEMBLY)

- (a) Remove the 2 nuts.



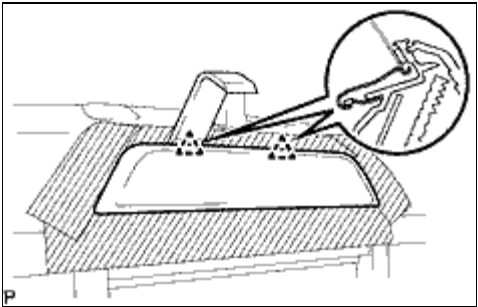
- (b) Apply protective tape around the cargo light assembly (center stop light assembly).



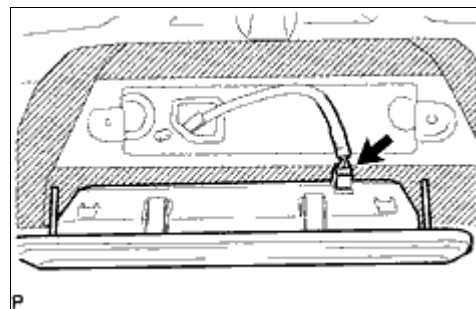
Text in Illustration

	Protective Tape
---	-----------------

- (c) Using a moulding remover D, disengage the 2 clips to separate the cargo light assembly (center stop light assembly).



- (d) Disconnect the connector to remove the cargo light assembly (center stop light assembly).



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000005VV2000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: DAYTIME RUNNING LIGHT RELAY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

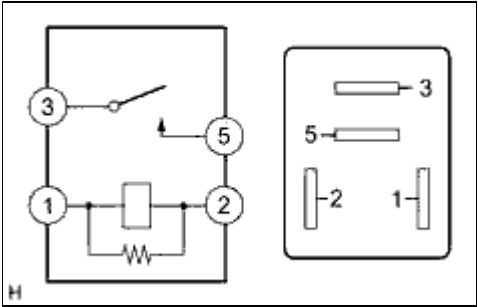
1. INSPECT NO. 1 DAY TIME RUNNING LIGHT RELAY

(a) Check the resistance.

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

Standard:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 kΩ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 Ω



If the result is not as specified, replace the No. 1 day time running light relay.



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000005W5C000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: DECK LIGHT RELAY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

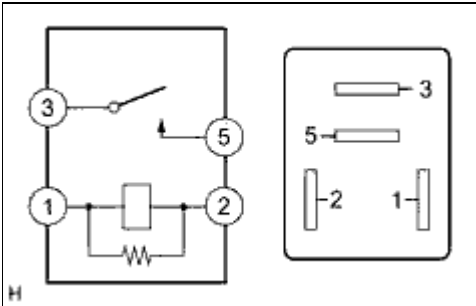
1. REMOVE DECK LIGHT RELAY

(a) Check the resistance.

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

Standard:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Battery voltage is not applied to terminals 1 and 2	10 kΩ or higher
	Battery voltage is applied to terminals 1 and 2	Below 1 Ω



If the result is not as specified, replace the deck light relay.



Last Modified: 11-13-2015	6.6 N	Doc ID: RM00000170000AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT ASSEMBLY: ADJUSTMENT; 2016 MY Tacoma [08/2015 -]		

ADJUSTMENT

1. PREPARE VEHICLE FOR FOG LIGHT AIMING ADJUSTMENT

(a) Prepare the vehicle:

HINT:

- Ensure that there is no damage or deformation to the body around the fog lights.
- Fill the fuel tank.
- Make sure that the oil is filled to the specified level.
- Make sure that the coolant is filled to the specified level.
- Inflate the tires to the appropriate pressure.
- Place the spare tire, tools, and jack in their original positions.
- Unload the trunk.
- Sit a person of average weight (68 kg, 150 lb) in the driver side seat.

2. PREPARE FOR FOG LIGHT AIMING

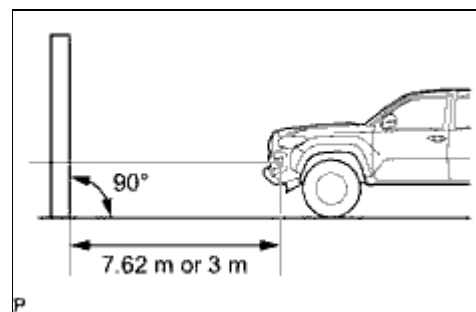
(a) Prepare the vehicle according to the following conditions:

HINT:

- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the headlights can be observed and above which it cannot.
- Place the vehicle at a 90° angle to the wall.
- Keep a 7.62 m (25 ft) distance between the center of the fog light bulb and the wall.
- Place the vehicle on a level surface.
- Bounce the vehicle up and down to settle the suspension.

NOTICE:

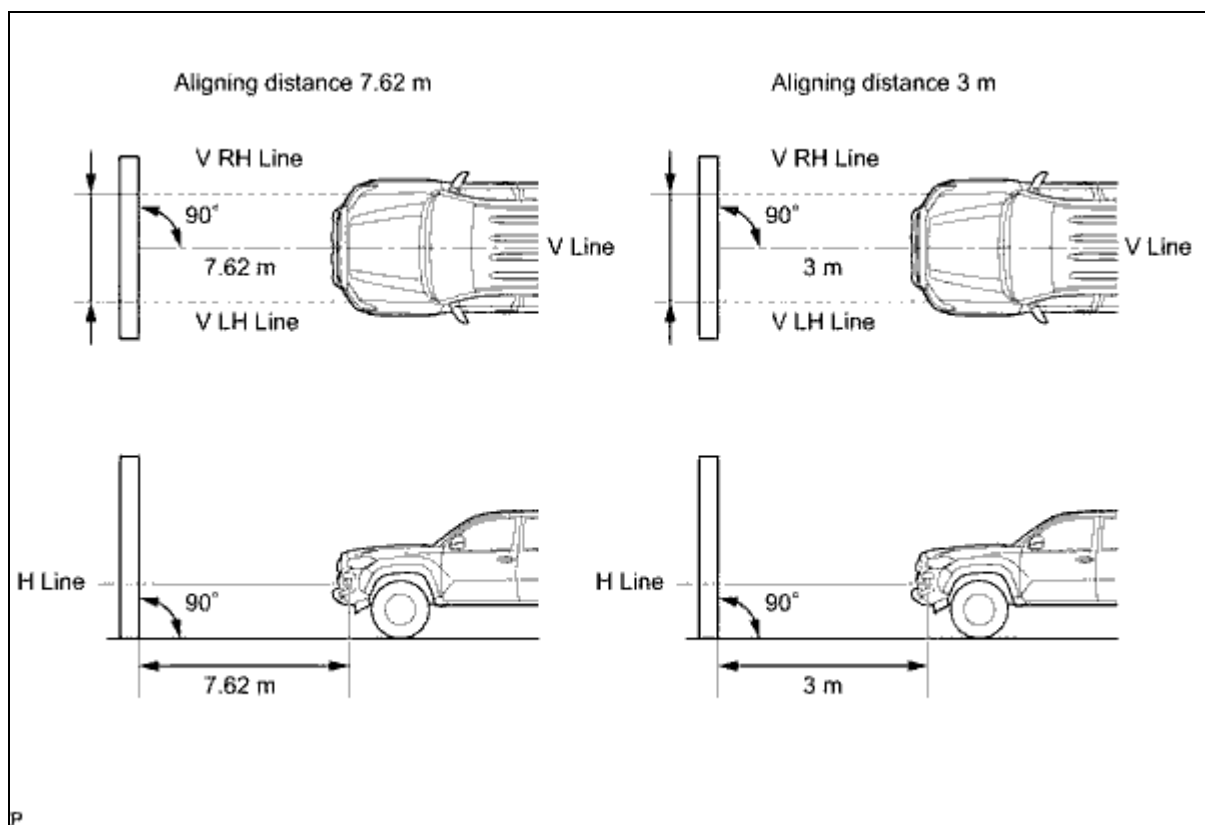
A distance of 7.62 m (25 ft) between the vehicle (center of the fog light bulb) and the wall is necessary for proper aim adjustment. If unavailable to secure a distance of 7.62 m (25 ft), secure a distance of exactly 3 m (9.84 ft) to check and adjust the fog light aim. (Since the target zone will change with the distance, follow the instructions shown in the illustration.)



(b) Prepare a piece of thick white paper (approximately 2 m (6.56 ft) (height) x 4 m (13.1 ft) (width)) to use as a screen.

(c) Draw a vertical line down the center of screen (V line).

(d) Set the screen as shown in the illustration.

**HINT:**

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.

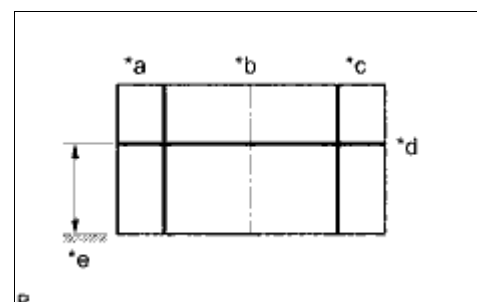
(e) Draw base lines (H line, V LH, V RH lines) on the screen as shown in the illustration.

Text in Illustration

*a	V LH Line
*b	V Line
*c	V RH Line
*d	H Line
*e	Ground

HINT:

Mark the fog light bulb center marks on the screen. If the center mark cannot be observed on the fog light, use the center of the fog light bulb or the manufacturer's name marked on the fog light as the center mark.



(1) H Line (Fog light height):

Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the fog light bulb center marks of the low-beam fog lights.

(2) V LH Line, V RH Line (Center mark position of left-hand (LH)

and right-hand (RH) fog lights):

Draw two vertical lines so that they intersect the H line at each center mark.

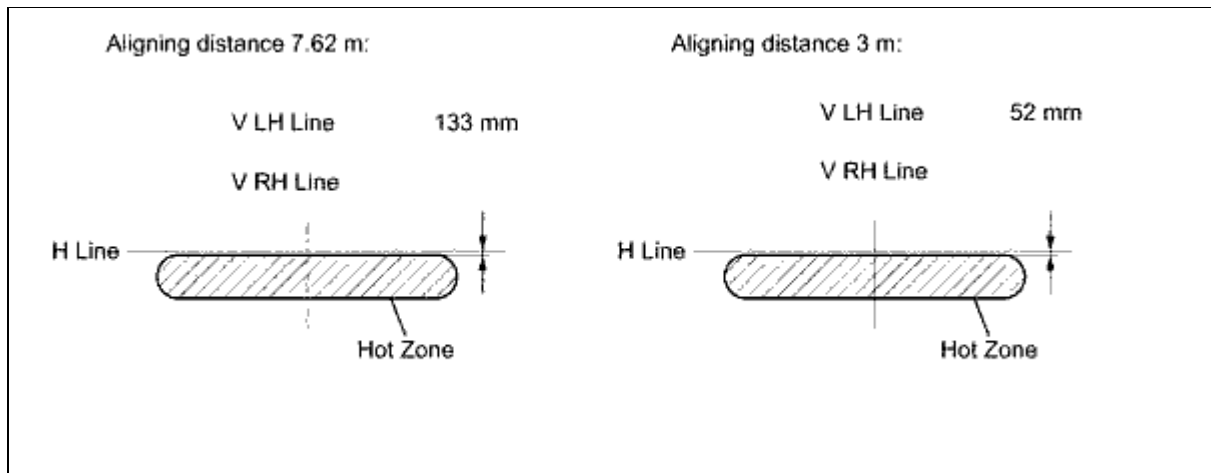
3. INSPECT FOG LIGHT AIMING

- (a) Cover the fog light or disconnect the connector of the fog light on the opposite side to prevent light from the fog light not being inspected from affecting fog light aiming inspection.
- (b) Start the engine.

NOTICE:

Engine speed must be 1500 or more.

- (c) Turn on the fog light and make sure that the cutoff line falls within the specified area, as shown in the illustration.

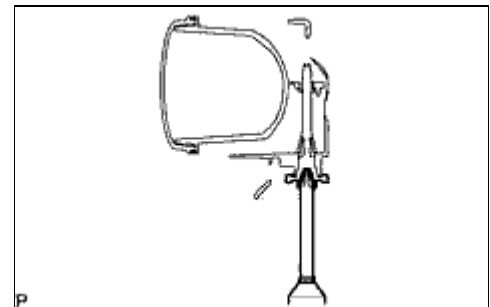


4. ADJUST FOG LIGHT AIMING

- (a) Adjust the fog light aim into the specified range by turning the aiming screw with a screwdriver.

NOTICE:

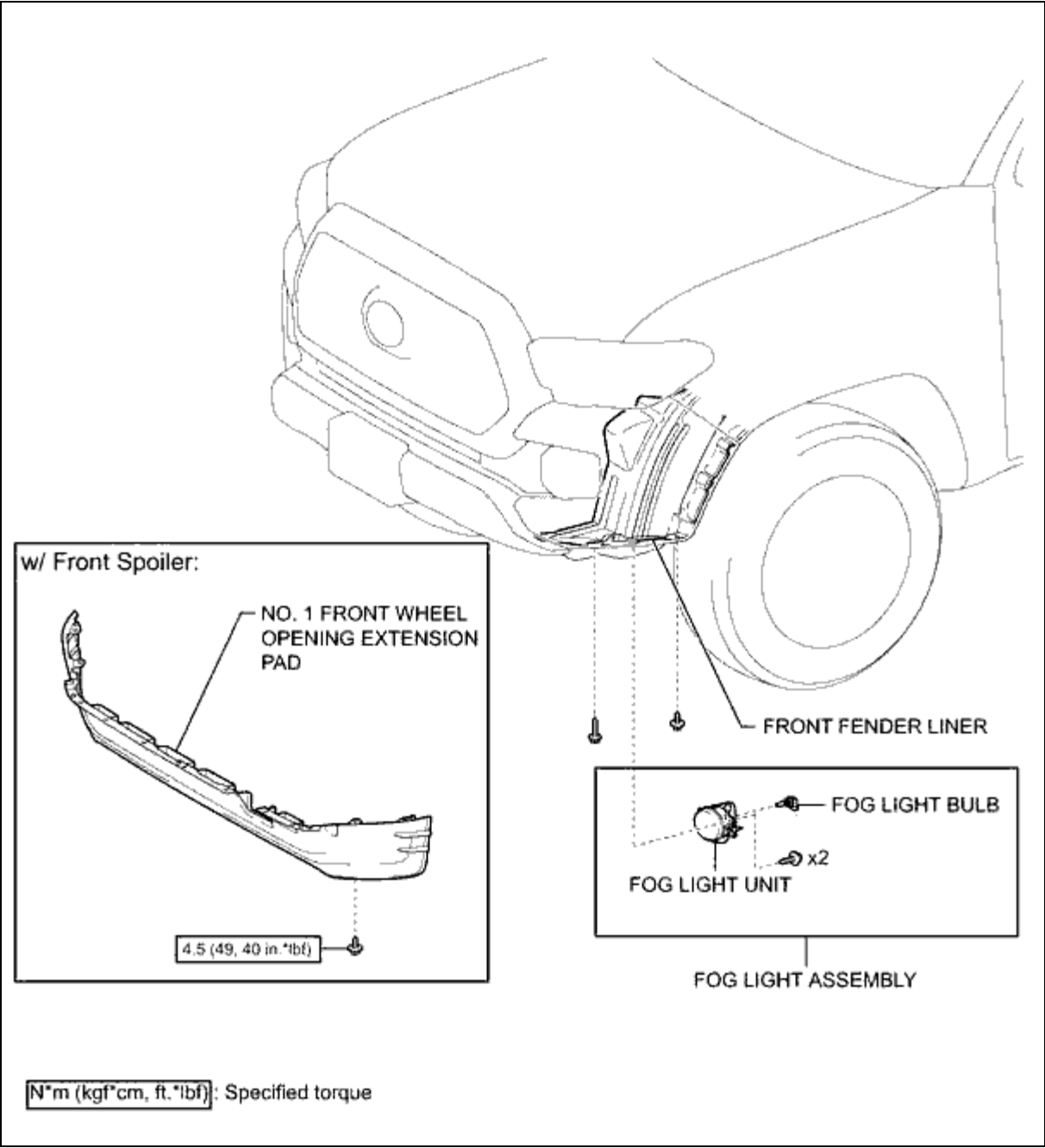
The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016Y000AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VNY000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT ASSEMBLY: DISASSEMBLY; 2016 MY Tacoma [08/2015 -]		

DISASSEMBLY

HINT:

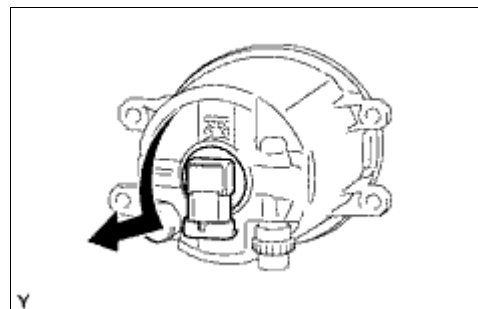
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

1. REMOVE FOG LIGHT BULB

- (a) Turn the fog light bulb in the direction indicated by the arrow in the illustration to remove it.

NOTICE:

Do not touch the fog light bulb glass.



Y



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016XZ00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

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

1. INSTALL FOG LIGHT ASSEMBLY

- Engage the 2 guides to install the fog light assembly.
- Install the screw.
- Connect the connector.

2. INSTALL FRONT FENDER LINER

- Install the front fender liner with the 2 screws.

3. INSTALL NO. 1 FRONT WHEEL OPENING EXTENSION PAD (w/ Front Spoiler) INFO

4. ADJUST FOG LIGHT AIMING



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VNZ000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT ASSEMBLY: REASSEMBLY; 2016 MY Tacoma [08/2015 -]		

REASSEMBLY

HINT:

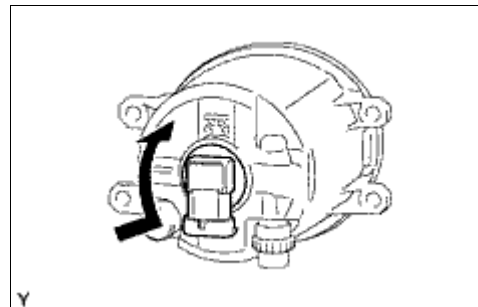
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

1. INSTALL FOG LIGHT BULB

- (a) Turn the fog light bulb in the direction indicated by the arrow in the illustration to install it.

NOTICE:

Do not touch the fog light bulb glass.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016Y100AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

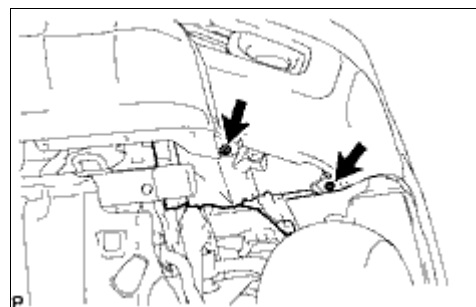
HINT:

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

1. REMOVE NO. 1 FRONT WHEEL OPENING EXTENSION PAD (w/ Front Spoiler) INFO

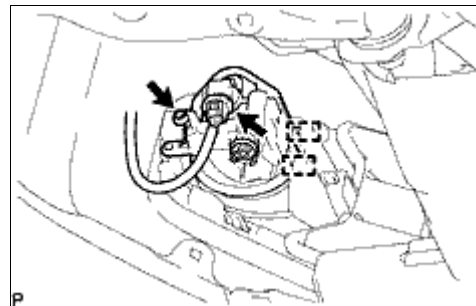
2. SEPARATE FRONT FENDER LINER

(a) Remove the 2 screws to separate the front fender liner.



3. REMOVE FOG LIGHT ASSEMBLY

(a) Disconnect the connector.



(b) Remove the screw.

(c) Disengage the 2 guides to remove the fog light assembly.



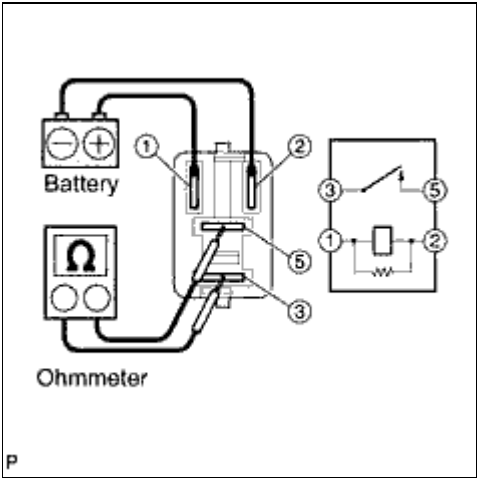
Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016YF00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FOG LIGHT RELAY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT FOG LIGHT RELAY

- (a) Check the resistance.
- (1) Using an ohmmeter, measure the resistance between the terminals.
- Standard:

TESTER CONNECTION	SPECIFIED CONDITION
3-5	10 kΩ or higher
3-5	Below 1 Ω (When battery voltage applied to terminals 1 and 2)



If the result is not as specified, replace the fog light relay.



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016YB00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: FRONT DOOR COURTESY SWITCH: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT FRONT DOOR COURTESY SWITCH

(a) Check the resistance.

(1) Measure the resistance using an ohmmeter, and check the results in accordance with the value(s) in the table below.

Standard:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1-Switch body	ON (When shaft is pressed)	10 k Ω or higher
1-Switch body	OFF (When shaft is not pressed)	Below 1 Ω

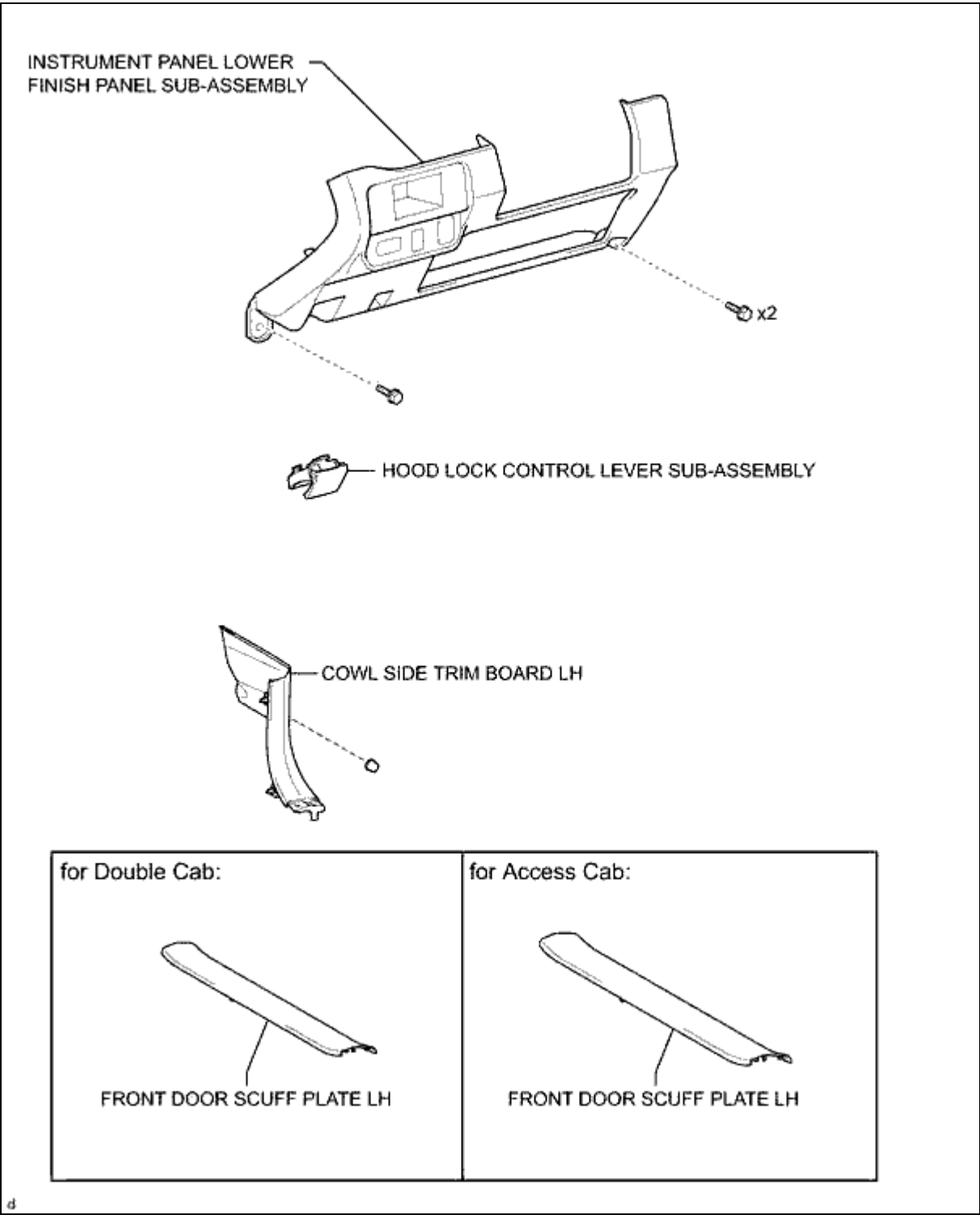
If the result is not as specified, replace the front door courtesy light switch assembly.



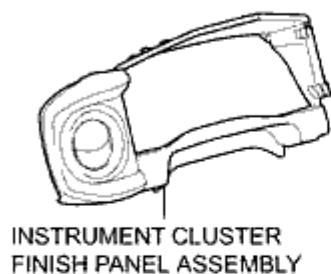
Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VT3000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HAZARD WARNING SWITCH: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

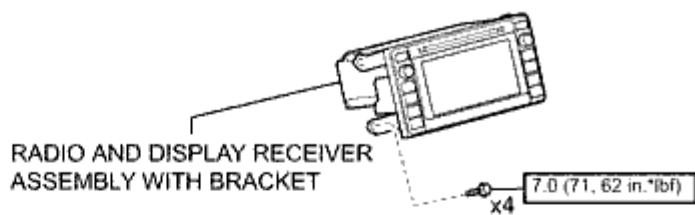
ILLUSTRATION



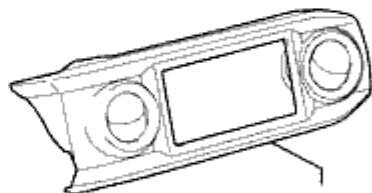
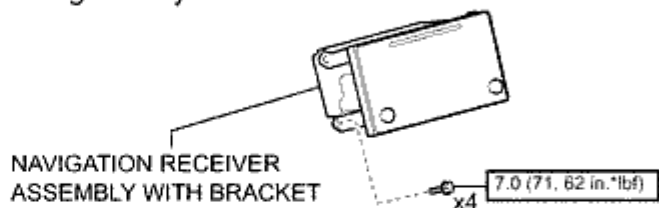
ILLUSTRATION



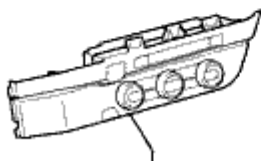
w/o Navigation System:



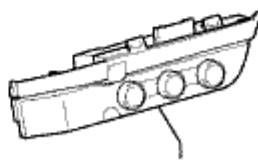
w/ Navigation System:



for Automatic Air Conditioning System:



for Manual Air Conditioning System:



[N*m (kgf*cm, ft.*lbf)]: Specified torque



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016YL00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HAZARD WARNING SWITCH: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT HAZARD WARNING SIGNAL SWITCH ASSEMBLY (AIR CONDITIONING CONTROL ASSEMBLY)

(a) Check the resistance.

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

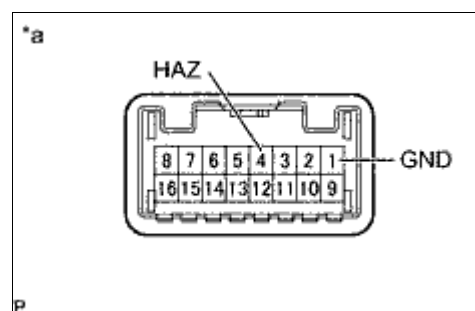
Text in Illustration

*a	Component without harness connected (Hazard Warning Switch Assembly (Air Conditioning Control Assembly))
----	---

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
4 (HAZ) - 1 (GND)	OFF	10 k Ω or higher
4 (HAZ) - 1 (GND)	ON	Below 1 Ω

If the result is not as specified, replace the hazard warning signal switch assembly (air conditioning control assembly).



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VT2000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HAZARD WARNING SWITCH: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL HAZARD WARNING SIGNAL SWITCH ASSEMBLY (AIR CONDITIONING CONTROL ASSEMBLY) (for Automatic Air Conditioning System)

- (a) Connect the connectors.
- (b) Engage the 8 clips to hazard warning signal switch assembly (air conditioning control assembly).

2. INSTALL HAZARD WARNING SIGNAL SWITCH ASSEMBLY (AIR CONDITIONING CONTROL ASSEMBLY) (for Manual Air Conditioning System)

- (a) Connect the connectors.
- (b) Engage the 8 clips to hazard warning signal switch assembly (air conditioning control assembly).

3. INSTALL NAVIGATION RECEIVER ASSEMBLY WITH BRACKET (w/ Navigation System)

INFO

4. INSTALL RADIO AND DISPLAY RECEIVER ASSEMBLY WITH BRACKET (w/o Navigation System)

INFO

5. INSTALL INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY

INFO

6. REMOVE INSTRUMENT CLUSTER CENTER FINISH PANEL SUB-ASSEMBLY

INFO

7. INSTALL INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY

INFO

8. INSTALL COWL SIDE TRIM BOARD LH

INFO

9. INSTALL FRONT DOOR SCUFF PLATE LH (for Double Cab)

INFO

10. INSTALL FRONT DOOR SCUFF PLATE LH (for Access Cab)

INFO

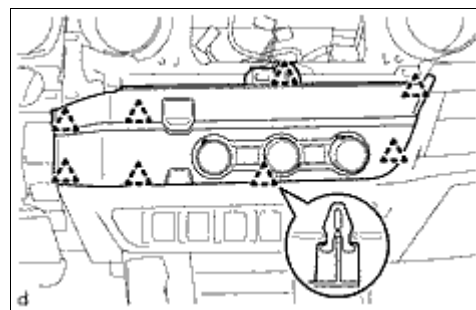


Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VT4000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HAZARD WARNING SWITCH: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE FRONT DOOR SCUFF PLATE LH (for Double Cab) [INFO](#)
2. REMOVE FRONT DOOR SCUFF PLATE LH (for Access Cab) [INFO](#)
3. REMOVE COWL SIDE TRIM BOARD LH [INFO](#)
4. REMOVE INSTRUMENT CLUSTER CENTER FINISH PANEL SUB-ASSEMBLY [INFO](#)
5. REMOVE INSTRUMENT CLUSTER FINISH PANEL ASSEMBLY [INFO](#)
6. REMOVE INSTRUMENT PANEL LOWER FINISH PANEL SUB-ASSEMBLY [INFO](#)
7. REMOVE NAVIGATION RECEIVER ASSEMBLY WITH BRACKET (w/ Navigation System) [INFO](#)
8. REMOVE RADIO AND DISPLAY RECEIVER ASSEMBLY WITH BRACKET (w/o Navigation System) [INFO](#)
9. REMOVE HAZARD WARNING SIGNAL SWITCH ASSEMBLY (AIR CONDITIONING CONTROL ASSEMBLY) (for Automatic Air Conditioning System)

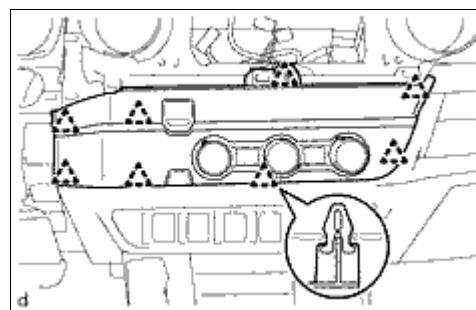
- (a) Disengage the 8 clips to separate the hazard warning signal switch assembly (air conditioning control assembly).



- (b) Disconnect the connectors to remove the hazard warning signal switch assembly (air conditioning control assembly).

10. REMOVE HAZARD WARNING SIGNAL SWITCH ASSEMBLY (AIR CONDITIONING CONTROL ASSEMBLY) (for Manual Air Conditioning System)

- (a) Disengage the 8 clips to separate the hazard warning signal switch assembly (air conditioning control assembly).



- (b) Disconnect the connectors to remove the hazard warning signal switch assembly (air conditioning control assembly).



Last Modified: 11-13-2015	6.6 N	Doc ID: RM0000016XU00BX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT ASSEMBLY: ADJUSTMENT; 2016 MY Tacoma [08/2015 -]		

ADJUSTMENT

1. PREPARE VEHICLE FOR HEADLIGHT AIM ADJUSTMENT

(a) Prepare the vehicle:

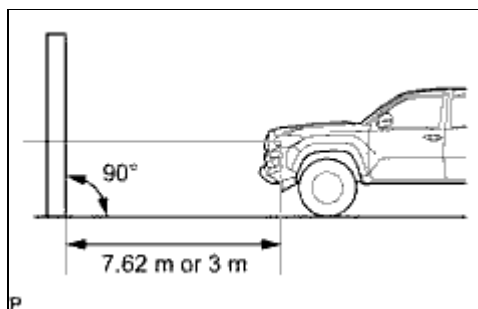
- Ensure that there is no damage or deformation to the body around the headlights.
- Fill the fuel tank.
- Make sure that the oil is filled to the specified level.
- Make sure that the coolant is filled to the specified level.
- Inflate the tires to the appropriate pressure.
- Place the spare tire, tools, and jack in their original positions.
- Unload the trunk.
- Sit a person of average weight (68 kg, 150 lb) in the driver side seat.

2. PREPARE FOR HEADLIGHT AIMING (for Using a Tester)

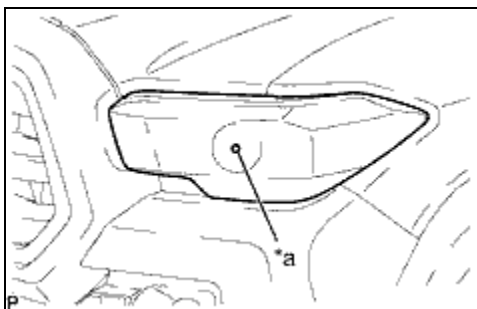
- (a) Prepare the vehicle for headlight aim check.
- (b) Perform adjustment in accordance with the headlight tester instructions.

3. PREPARE FOR HEADLIGHT AIMING (for Using a Screen)

(a) Prepare the vehicle according to the following conditions:



- Place the vehicle in a location that is dark enough to clearly observe the cutoff line. The cutoff line is a distinct line, below which light from the headlights can be observed and above which it cannot.
- Place the vehicle at a 90° angle to the wall.
- Keep a 7.62 m (25 ft) distance between the center of the headlight bulb and the wall.



Text in Illustration

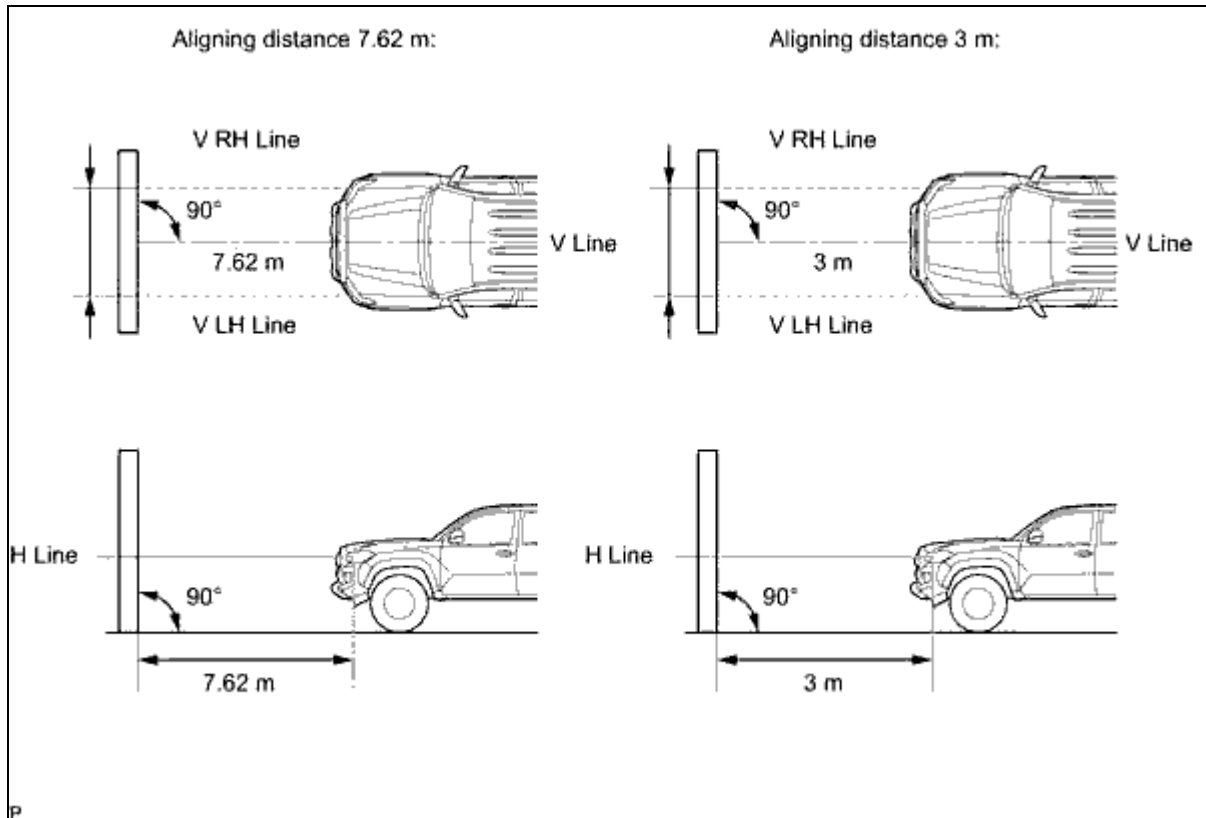
*a	Center Mark
----	-------------

- Place the vehicle on a level surface.
- Bounce the vehicle up and down to settle the suspension.

NOTICE:

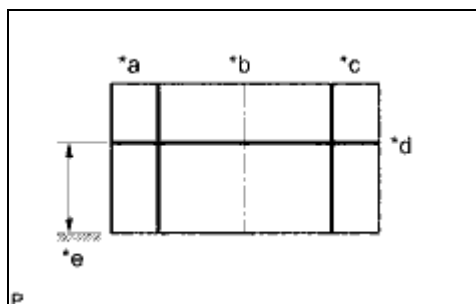
A distance of 7.62 m (25 ft) between the vehicle (center of the headlight bulb) and the wall is necessary for proper aim adjustment. If unavailable to secure a distance of 7.62 m (25 ft), secure a distance of exactly 3 m (9.84 ft) to check and adjust the headlight aim. (Since the target zone will change with the distance, follow the instructions shown in the illustration.)

- (b) Prepare a piece of thick white paper (approximately 2 m (6.56 ft) (height) x 4 m (13.1 ft) (width)) to use as a screen.
- (c) Draw a vertical line down the center of screen (V line).
- (d) Set the screen as shown in the illustration.

**HINT:**

- Stand the screen perpendicular to the ground.
- Align the V line on the screen with the center of the vehicle.

- (e) Draw base lines (H line, V LH, V RH lines) on the screen as shown in the illustration.

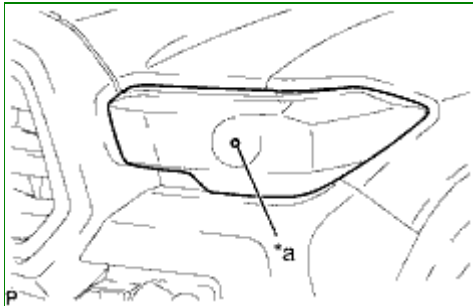


Text in Illustration

*a	V LH Line
*b	V Line
*c	V RH Line
*d	H Line
*e	Ground

HINT:

- The base lines differ for "low-beam inspection" and "high-beam inspection".
- Follow the same procedures as for "high-beam inspection".
- Mark the headlight bulb center marks on the screen. If the center mark cannot be observed on the headlight, use the center of the headlight bulb or the manufacturer name marked on the headlight as the



center mark.

Text in Illustration

*a	Center Mark
----	-------------

(1) H Line (Headlight height):

Draw a horizontal line across the screen so that it passes through the center marks. The H line should be at the same height as the headlight bulb center marks of the low-beam headlights.

(2) V LH Line, V RH Line (Center mark position of left-hand (LH) and right-hand (RH) headlights):

Draw two vertical lines so that they intersect the H line at each center mark (aligned with the center of the low-beam headlight bulbs).

4. INSPECT HEADLIGHT AIMING

- (a) Cover the headlight or disconnect the connector of the headlight on the opposite side to prevent light from the headlight not being inspected from affecting headlight aiming inspection.

NOTICE:

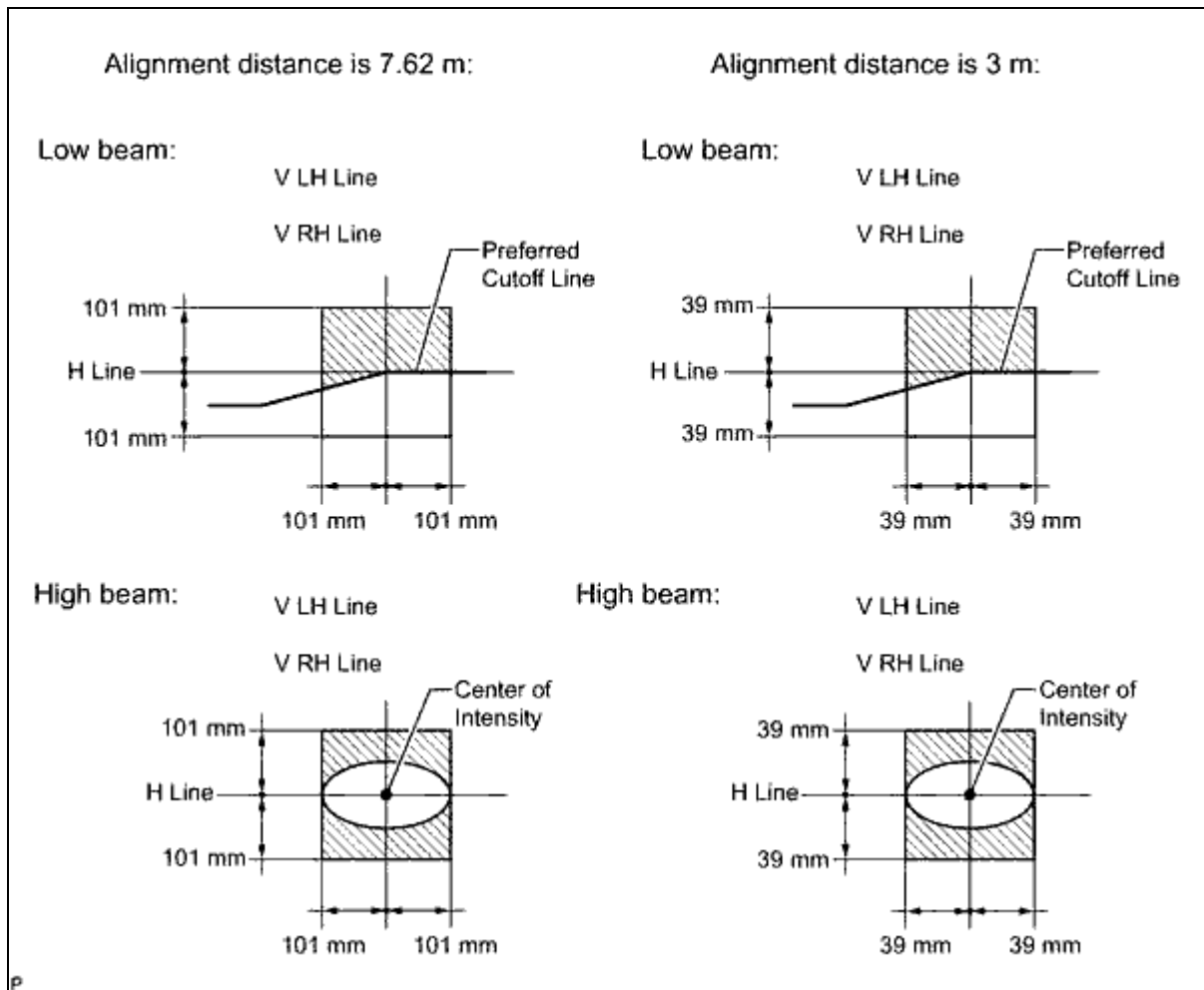
Do not keep the headlight covered for more than 3 minutes. The headlight lens is made of synthetic resin, and may easily melt or be damaged due to heat.

- (b) Start the engine.

NOTICE:

Engine speed must be 1500 or more.

- (c) Turn on the headlight and make sure that the cutoff line falls within the specified area, as shown in the illustration.



HINT:

- Alignment distance is 7.62 m (25 ft):
The cutoff line is 101 mm (3.97 in.) above and below the H line as well as to the left and right of the V line with low-beam (SAEJ599).
- Alignment distance is 3 m (9.84 ft):
The cutoff line is 40 mm (1.57 in.) above and below the H line as well as to the left and right of the V line with low-beam (SAEJ599).
- Alignment distance is 7.62 m (25 ft):
The center of intensity is 101 mm (3.97 in.) above and below the H line as well as to the left and right of the V line with high-beam (SAEJ599).
- Alignment distance is 3 m (9.84 ft):
The center of intensity is 40 mm (1.57 in.) above and below the H line as well as to the left and right of the V line with high-beam (SAEJ599).
- Alignment distance is 7.62 m (25 ft):
The right half of the low beam cutoff line should be on the H line (preferred cutoff line target).
- Alignment distance is 3 m (9.84 ft):
The right half of the low beam cutoff line should be on the H line (preferred cutoff line target).

5. ADJUST HEADLIGHT AIMING

(a) Adjust the aim vertically:

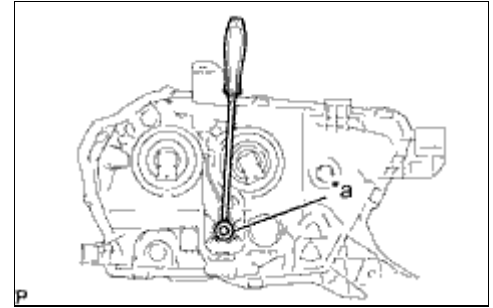
Adjust the headlight aim into the specified range by turning aiming screw A with a screwdriver.

Text in Illustration

*a	Vertical Aiming Screw
----	-----------------------

NOTICE:

The final turn of the aiming screw should be made in the clockwise direction. If the screw is tightened excessively, loosen it and then retighten it, so that the final turn of the screw is in the clockwise direction.



(b) Perform low-beam aim adjustment.

HINT:

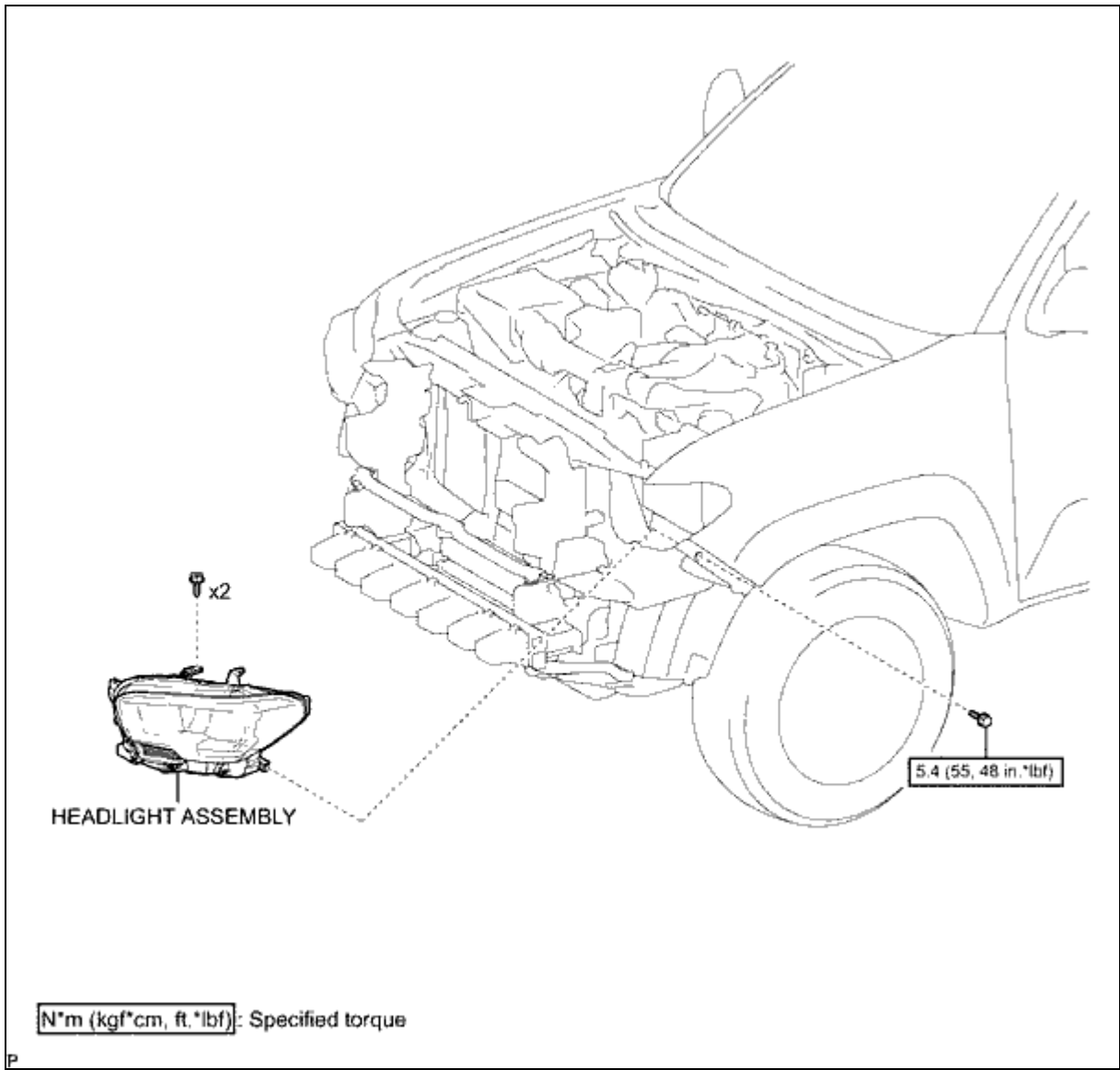
The headlight aim moves up when turning the aiming screw clockwise, and moves down when turning the aiming screw counterclockwise.



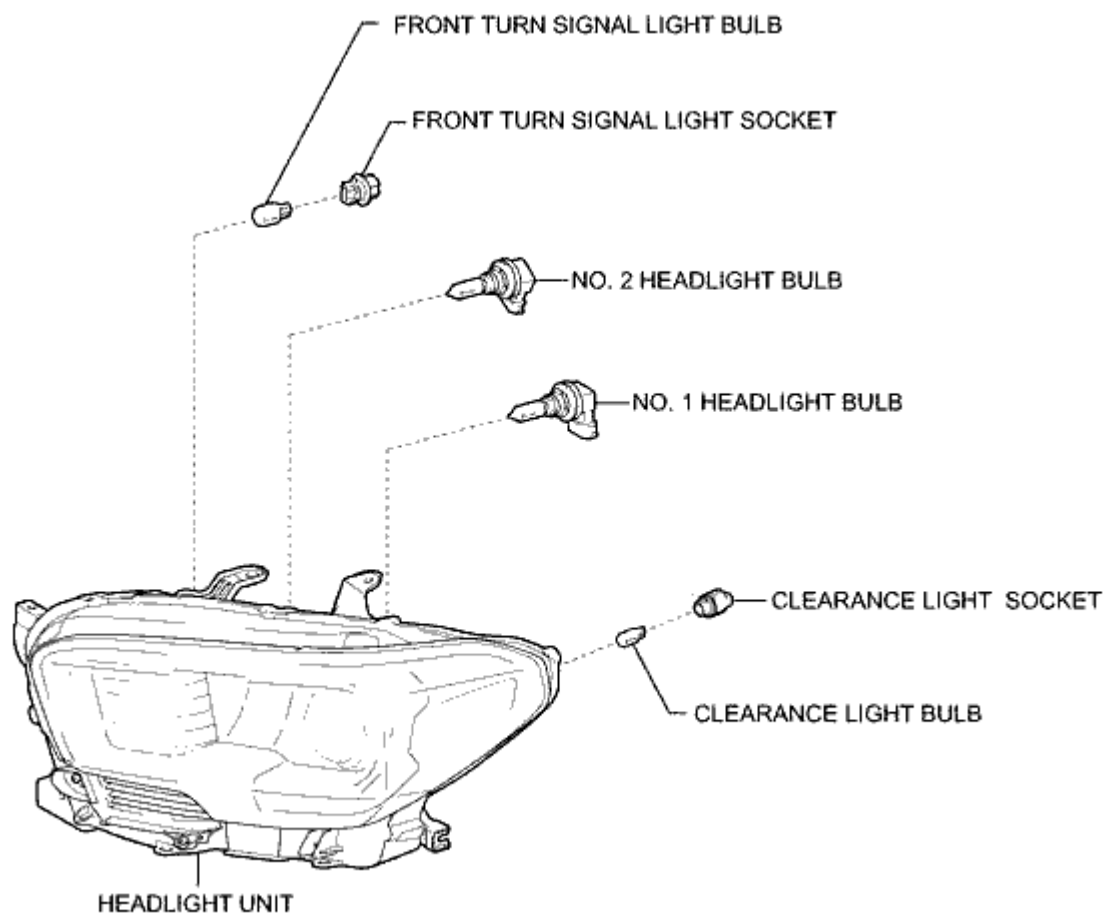
Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016XW00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VNI000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT ASSEMBLY: DISASSEMBLY; 2016 MY Tacoma [08/2015 -]		

DISASSEMBLY

HINT:

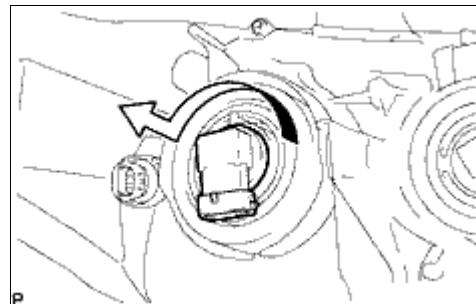
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

1. REMOVE NO. 1 HEADLIGHT BULB

- (a) Turn the No. 1 headlight bulb in the direction indicated by the arrow in the illustration to remove it.

NOTICE:

Do not touch the No. 1 headlight bulb glass.

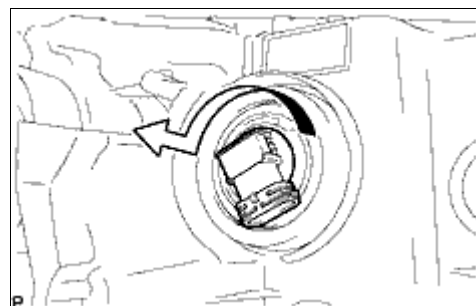


2. REMOVE NO. 2 HEADLIGHT BULB

- (a) Turn the No. 2 headlight bulb in the direction indicated by the arrow in the illustration to remove it.

NOTICE:

Do not touch the No. 2 headlight bulb glass.



3. REMOVE FRONT TURN SIGNAL LIGHT BULB

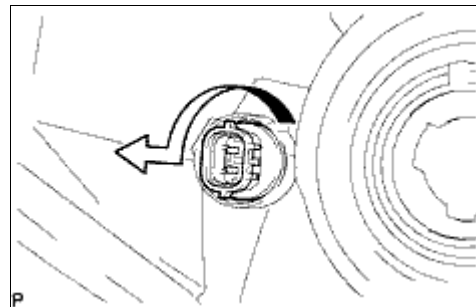
- (a) Turn the front turn signal light socket with front turn signal light bulb in the direction indicated by the arrow shown in the illustration to remove them.



- (b) Remove the front turn signal light bulb from the front turn signal light socket.

4. REMOVE CLEARANCE LIGHT BULB

- (a) Turn the clearance light socket with clearance light bulb in the direction indicated by the arrow shown in the illustration to remove them.



- (b) Remove the clearance light bulb from the clearance light socket.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016XV00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

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

1. INSTALL HEADLIGHT ASSEMBLY

- Connect the connectors.
- Engage the clamp to install the headlight assembly.
- Install the bolt.

Torque:

5.4 N·m {55 kgf·cm, 48in·lbf}

- Install the 2 screws.
- Remove the protective tape.

2. INSTALL FRONT BUMPER ASSEMBLY

INFO

3. ADJUST HEADLIGHT AIMING

INFO



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VNJ000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT ASSEMBLY: REASSEMBLY; 2016 MY Tacoma [08/2015 -]		

REASSEMBLY

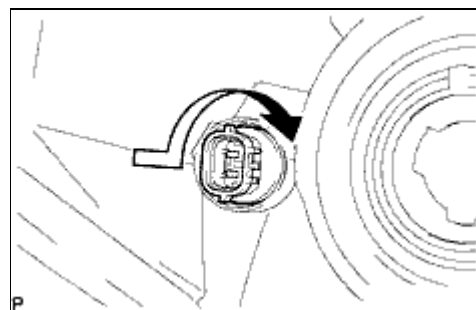
HINT:

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

1. INSTALL CLEARANCE LIGHT BULB

- (a) Install the clearance light bulb to the clearance light socket.

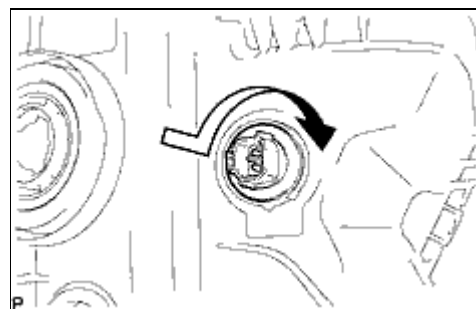
- (b) Turn the clearance light socket with clearance light bulb in the direction indicated by the arrow shown in the illustration to install them.



2. INSTALL FRONT TURN SIGNAL LIGHT BULB

- (a) Install the front turn signal light bulb to the front turn signal light socket.

- (b) Turn the front turn signal light socket with front turn signal light bulb in the direction indicated by the arrow shown in the illustration to install them.

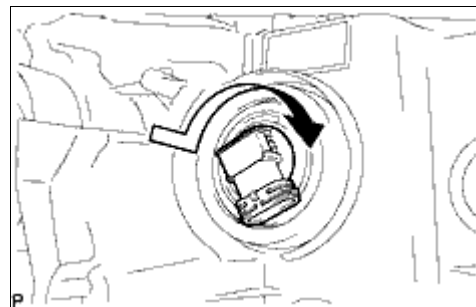


3. INSTALL NO. 2 HEADLIGHT BULB

- (a) Turn the No. 2 headlight bulb in the direction indicated by the arrow in the illustration to install it.

NOTICE:

Do not touch the No. 2 headlight bulb glass.

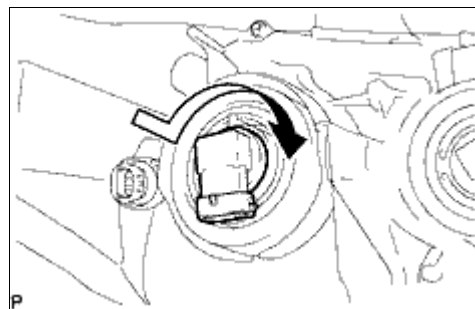


4. INSTALL NO. 1 HEADLIGHT BULB

- (a) Turn the No. 1 headlight bulb in the direction indicated by the arrow in the illustration to install it.

NOTICE:

Do not touch the No. 1 headlight bulb glass.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016XX00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

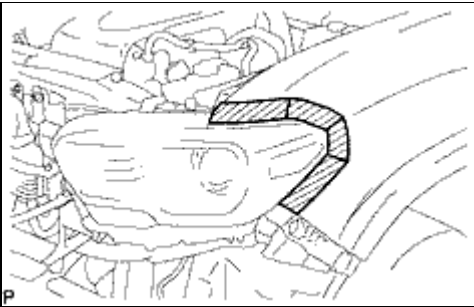
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

1. REMOVE FRONT BUMPER ASSEMBLY

INFO

2. REMOVE HEADLIGHT ASSEMBLY

(a) Apply protective tape around the headlight assembly.



Text in Illustration

	Protective Tape
---	-----------------

(b) Remove the bolt and 2 screws.



- (c) Disengage the clamp to separate the headlight assembly.
- (d) Disconnect the connectors to remove the headlight assembly.



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016YG00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT DIMMER RELAY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

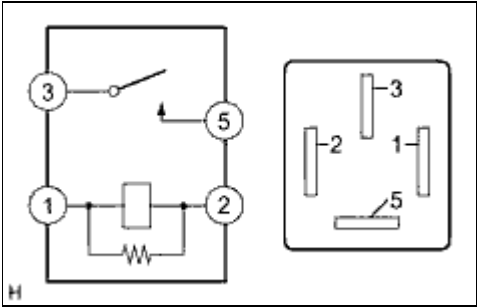
1. INSPECT HEADLIGHT DIMMER RELAY

(a) Check the resistance.

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

Standard:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Battery voltage not applied to terminals 1 and 2	10 kΩ or higher
	Battery voltage applied to terminals 1 and 2	Below 1 Ω



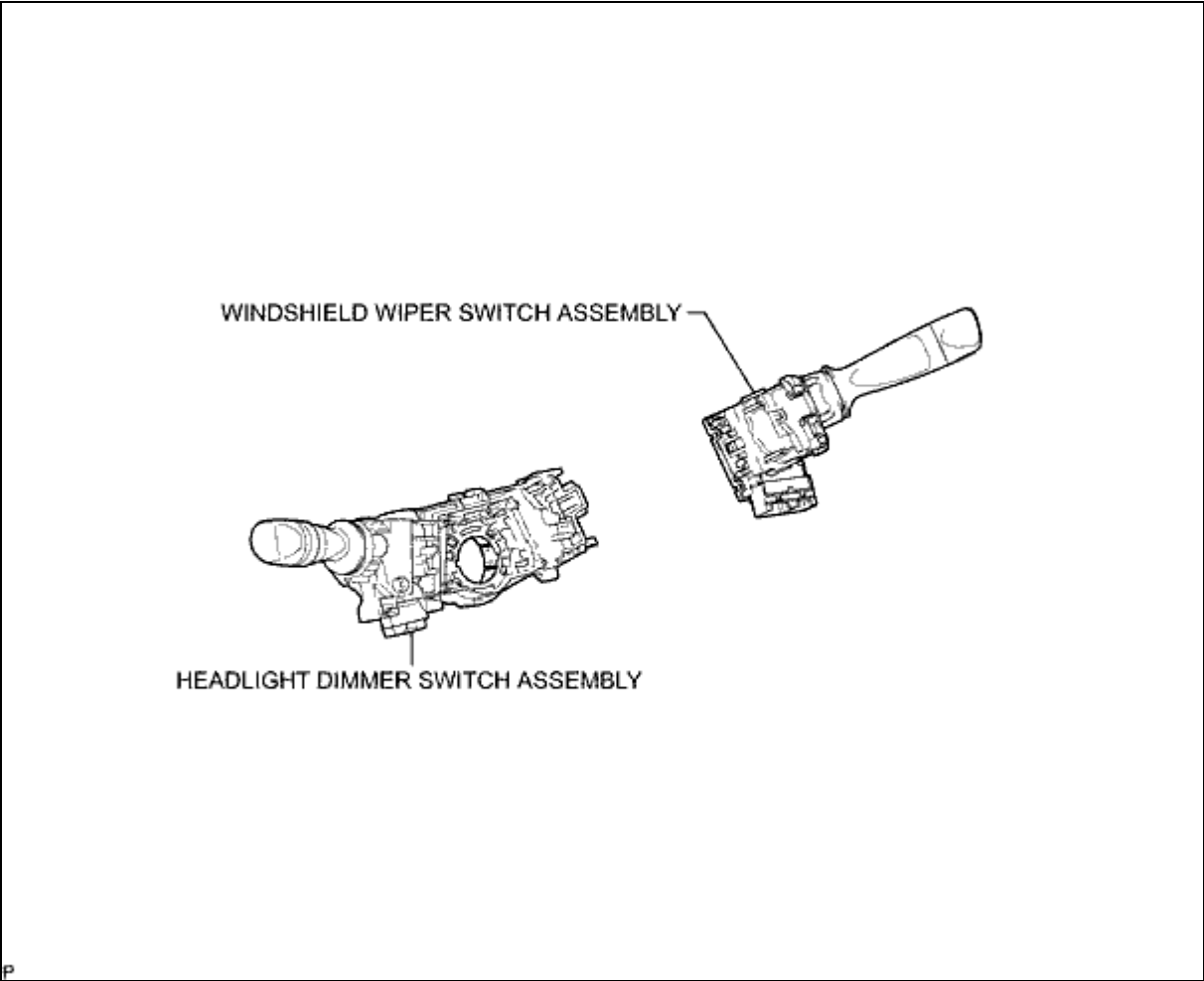
If the result is not as specified, replace, the headlight dimmer relay.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016YJ00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT DIMMER SWITCH: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



P



Last Modified: 11-13-2015	6.6 G	Doc ID: RM00000202H04UX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT DIMMER SWITCH: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT HEADLIGHT DIMMER SWITCH ASSEMBLY

(a) Check the resistance.

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

Text in Illustration

*a	Component without harness connected (Headlight Dimmer Switch Assembly)
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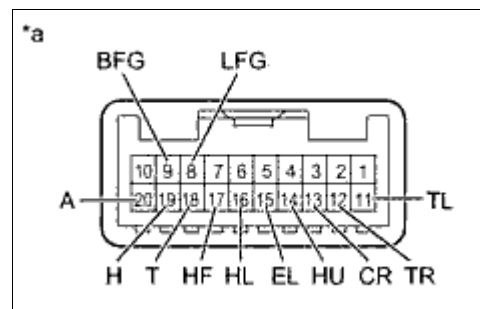
Standard Resistance:

Light Control Switch (w/o DRL OFF function)

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
18 (T) - 15 (EL)	Light control switch OFF	10 k Ω or higher
19 (H) - 15 (EL)		10 k Ω or higher
18 (T) - 15 (EL)	Light control switch in tail position	Below 1 Ω
18 (T) - 15 (EL)	Light control switch in head position	Below 1 Ω
19 (H) - 15 (EL)		Below 1 Ω

Light Control Switch (w/ DRL OFF function)

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
18 (T) - 15 (EL)	Light control switch DRL-OFF	10 k Ω or higher
19 (H) - 15 (EL)		10 k Ω or higher
20 (A) - 15 (EL)		10 k Ω or higher
18 (T) - 15 (EL)	Light control switch in tail position	Below 1 Ω
18 (T) - 15 (EL)	Light control switch in head position	Below 1 Ω
19 (H) - 15 (EL)		Below 1 Ω
20 (A) - 15 (EL)	Light control switch in AUTO position	Below 1 Ω
20 (A) - 15 (EL)	Light control switch in DRL position	Below 1 Ω



Dimmer Switch

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
16 (HL) - 15 (EL)	Dimmer switch in low position	Below 1 Ω
14 (HU) - 15 (EL)		10 k Ω or higher
14 (HU) - 15 (EL)	Dimmer switch in high position	Below 1 Ω
14 (HU) - 15 (EL)	Dimmer switch in high flash position	Below 1 Ω
17 (HF) - 15 (EL)		Below 1 Ω

Turn Signal Switch

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
12 (TR) - 15 (EL)	Neutral	10 k Ω or higher
11 (TL) - 15 (EL)		10 k Ω or higher
13 (CR) - 15 (EL)		10 k Ω or higher
12 (TR) - 15 (EL)	Right turn	Below 1 Ω
13 (CR) - 15 (EL)	Right turn fully	Below 1 Ω
11 (TL) - 15 (EL)	Left turn	Below 1 Ω
13 (CR) - 15 (EL)	Left turn fully	Below 1 Ω

Fog Light Switch

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
9 (BFG) - 8 (LFG)	Fog light switch off	10 k Ω or higher
9 (BFG) - 8 (LFG)	Fog light switch in front position	Below 1 Ω

If the result is not as specified, replace the headlight dimmer switch assembly.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016YH00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT DIMMER SWITCH: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL HEADLIGHT DIMMER SWITCH ASSEMBLY

- (a) Engage the 3 claws to install the headlight dimmer switch assembly.
- (b) Connect the connector.

2. INSTALL WINDSHIELD WIPER SWITCH ASSEMBLY

INFO

3. INSTALL SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY

INFO



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016YK00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT DIMMER SWITCH: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE SPIRAL CABLE WITH SENSOR SUB-ASSEMBLY

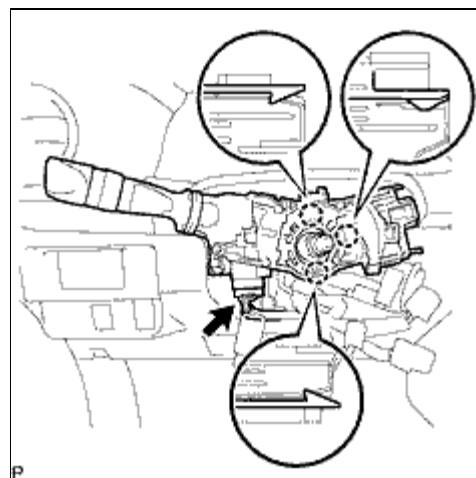
INFO

2. REMOVE WINDSHIELD WIPER SWITCH ASSEMBLY

INFO

3. REMOVE HEADLIGHT DIMMER SWITCH ASSEMBLY

(a) Disconnect the connector.



(b) Disengage the 3 claws to remove the headlight dimmer switch assembly.



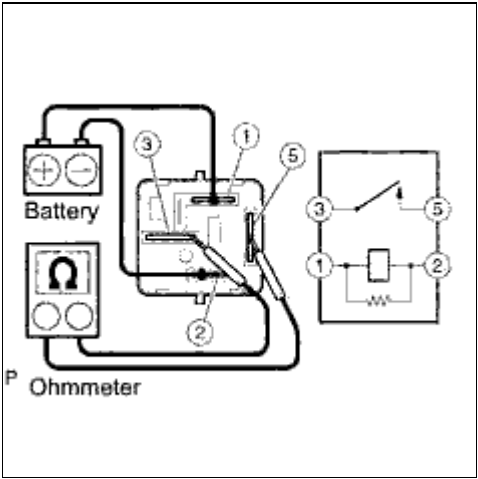
Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016YD00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HEADLIGHT RELAY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT HEADLIGHT RELAY

- (a) Check the resistance.
- (1) Using an ohmmeter, measure the resistance between the terminals.
- Standard:

TESTER CONNECTION	SPECIFIED CONDITION
3-5	10 kΩ or higher
3-5	Below 1 Ω (When battery voltage applied to terminals 1 and 2)



If the result is not as specified, replace the headlight relay.

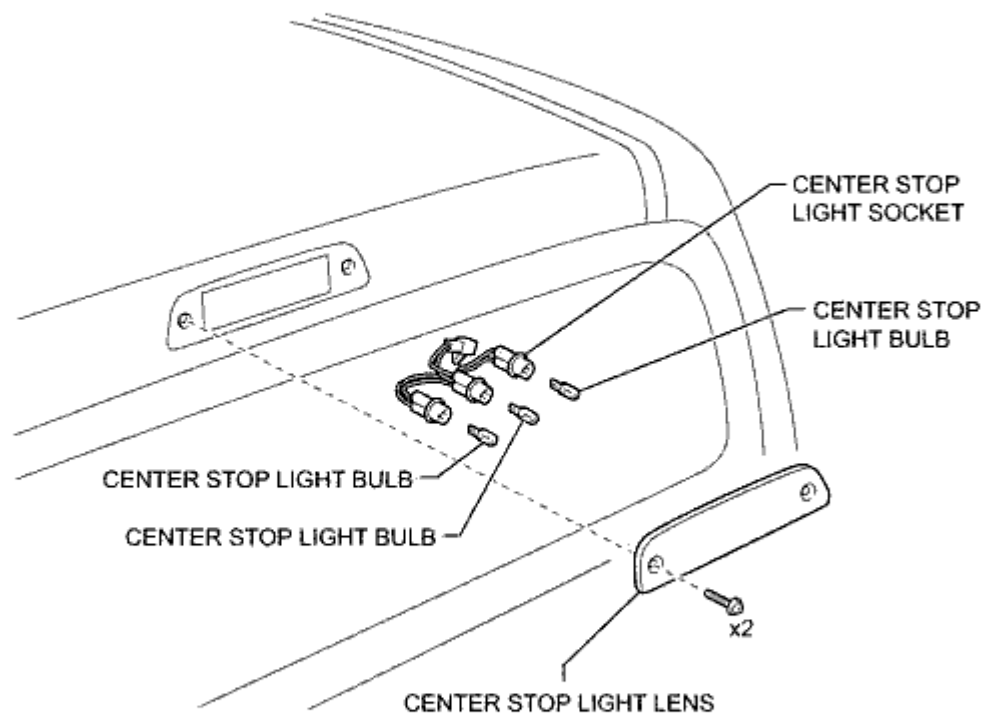


Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016Y900AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HIGH MOUNTED STOP LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

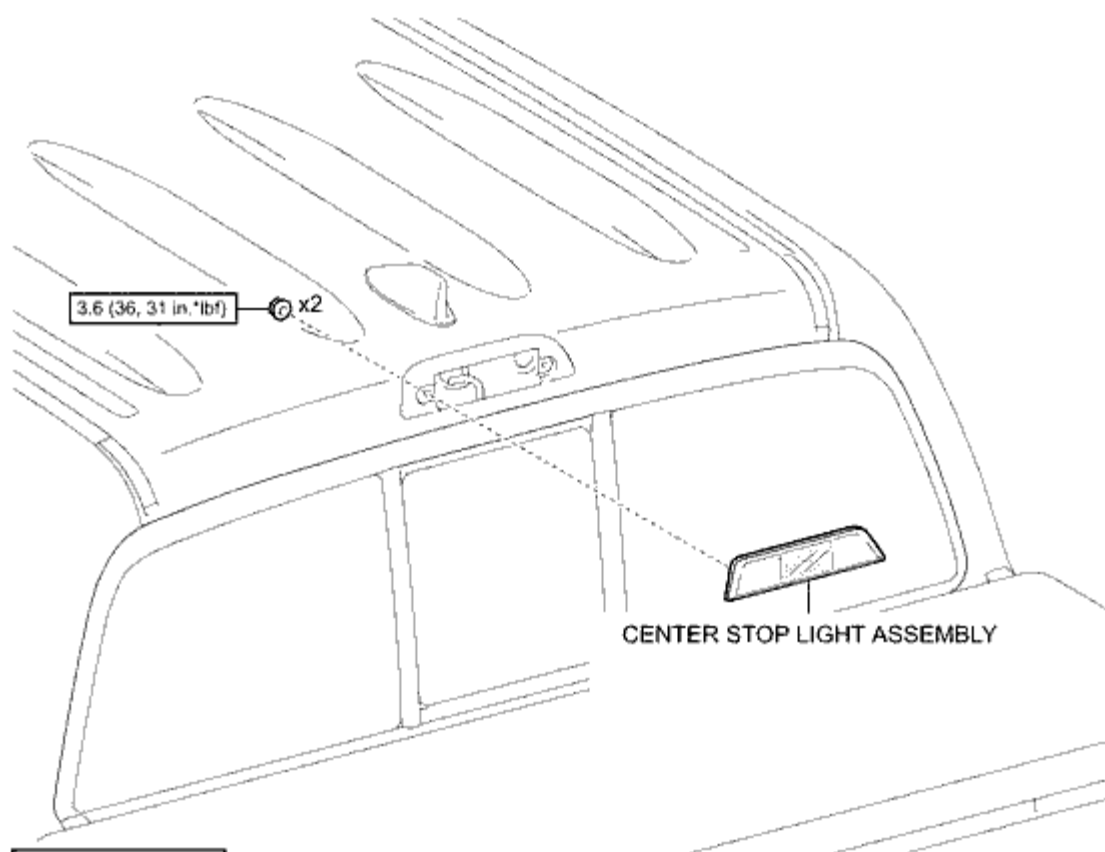
ILLUSTRATION

for Bulb Type Stop Light:



ILLUSTRATION

for LED Type Stop Light:



N*m (kgf*cm, ft.*lbf): Specified torque

P



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000005VSY000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HIGH MOUNTED STOP LIGHT ASSEMBLY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT CENTER STOP LIGHT ASSEMBLY (for LED Type Stop Light)

- (a) Check the illuminates.
 - (1) Apply battery voltage to the connector and check the light illumination condition.

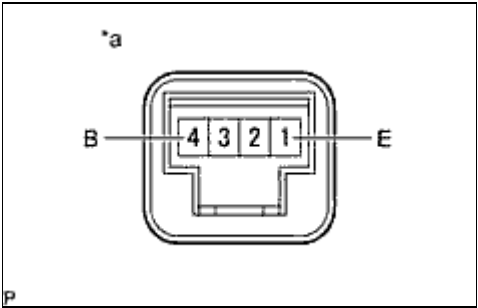
Text in Illustration

*a	Component without harness connected (Center Stop Light Assembly)
----	---

OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → 4 (B)	Center stop light illuminates
Battery negative (-) → 1 (E)	

If the result is not as specified, replace the center stop light assembly.



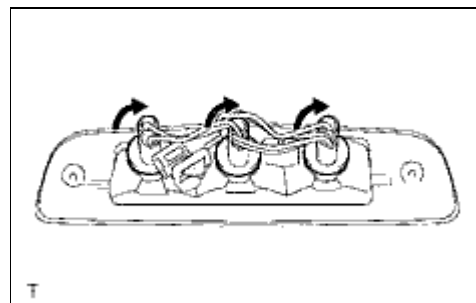
Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016Y800AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HIGH MOUNTED STOP LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL CENTER STOP LIGHT ASSEMBLY (for Bulb Type Stop Light)

(a) Install the 3 center stop light bulbs to the 3 center stop light sockets.

(b) Turn the 3 center stop light sockets with 3 center stop light bulbs in the direction indicated by the arrow shown in the illustration to install them.



(c) Connect the connector.

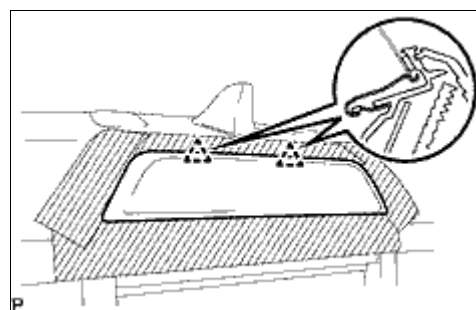
(d) Install the center stop light assembly with the 2 screws.

(e) Remove the protective tape.

2. INSTALL CENTER STOP LIGHT ASSEMBLY (for LED Type Stop Light)

(a) Connect the connector.

(b) Engage the 2 clips to install the center stop light assembly.



(c) Install the 2 nuts.

Torque:

3.6 N·m {36 kgf·cm, 31in·lbf}

(d) Remove the protective tape.

3. CONNECT ROOF HEADLINING ASSEMBLY (for LED Type Stop Light)

- for Double Cab:

INFO

- for Access Cab:

INFO



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016YA00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: HIGH MOUNTED STOP LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE ROOF HEADLINING ASSEMBLY (for LED Type Stop Light)

- for Double Cab:

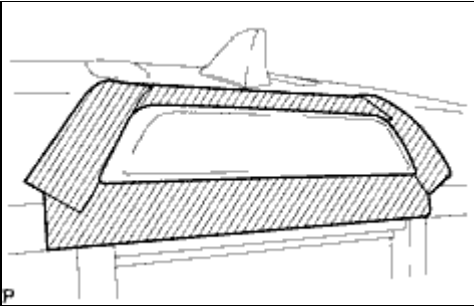
INFO

- for Access Cab:

INFO

2. REMOVE CENTER STOP LIGHT ASSEMBLY (for Bulb Type Stop Light)

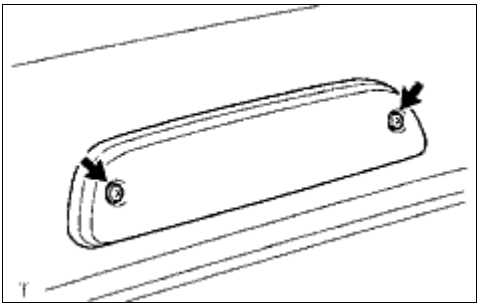
- (a) Apply protective tape around the center stop light assembly.



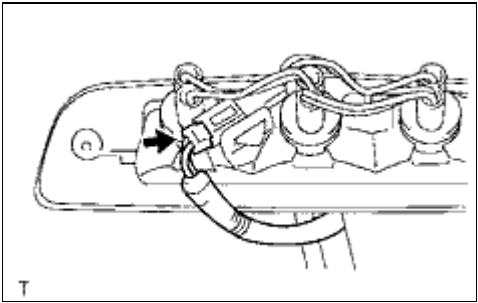
Text in Illustration

	Protective Tape
---	-----------------

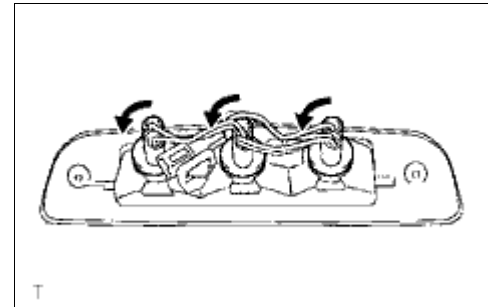
- (b) Remove the 2 screws and separate the center stop light assembly.



- (c) Disconnect the connector to remove the center stop light assembly.



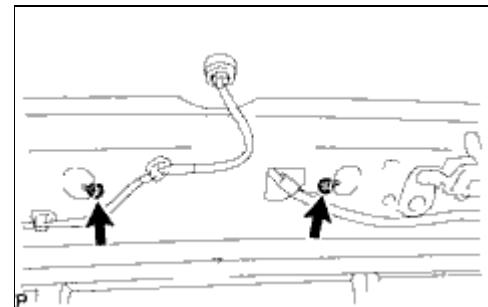
- (d) Turn the 3 center stop light sockets with the 3 center stop light bulbs in the direction indicated by the arrow shown in the illustration to remove them.



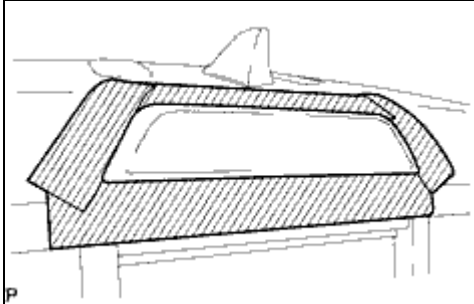
- (e) To remove the 3 center stop light sockets and bulbs, turn them in the direction indicated by the arrow in the illustration.

3. REMOVE CENTER STOP LIGHT ASSEMBLY (for LED Type Stop Light)

- (a) Remove the 2 nuts.



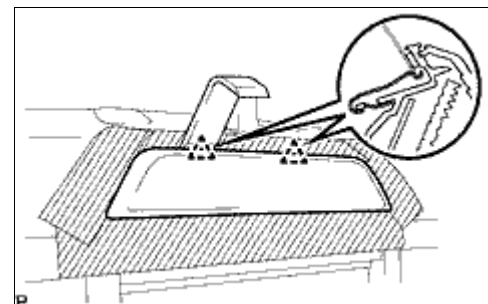
- (b) Apply protective tape around the center stop light assembly.



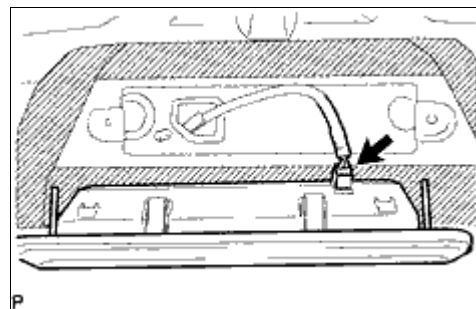
Text in Illustration

	Protective Tape
---	-----------------

- (c) Using a moulding remover D, disengage the 2 clips to separate the center stop light assembly.



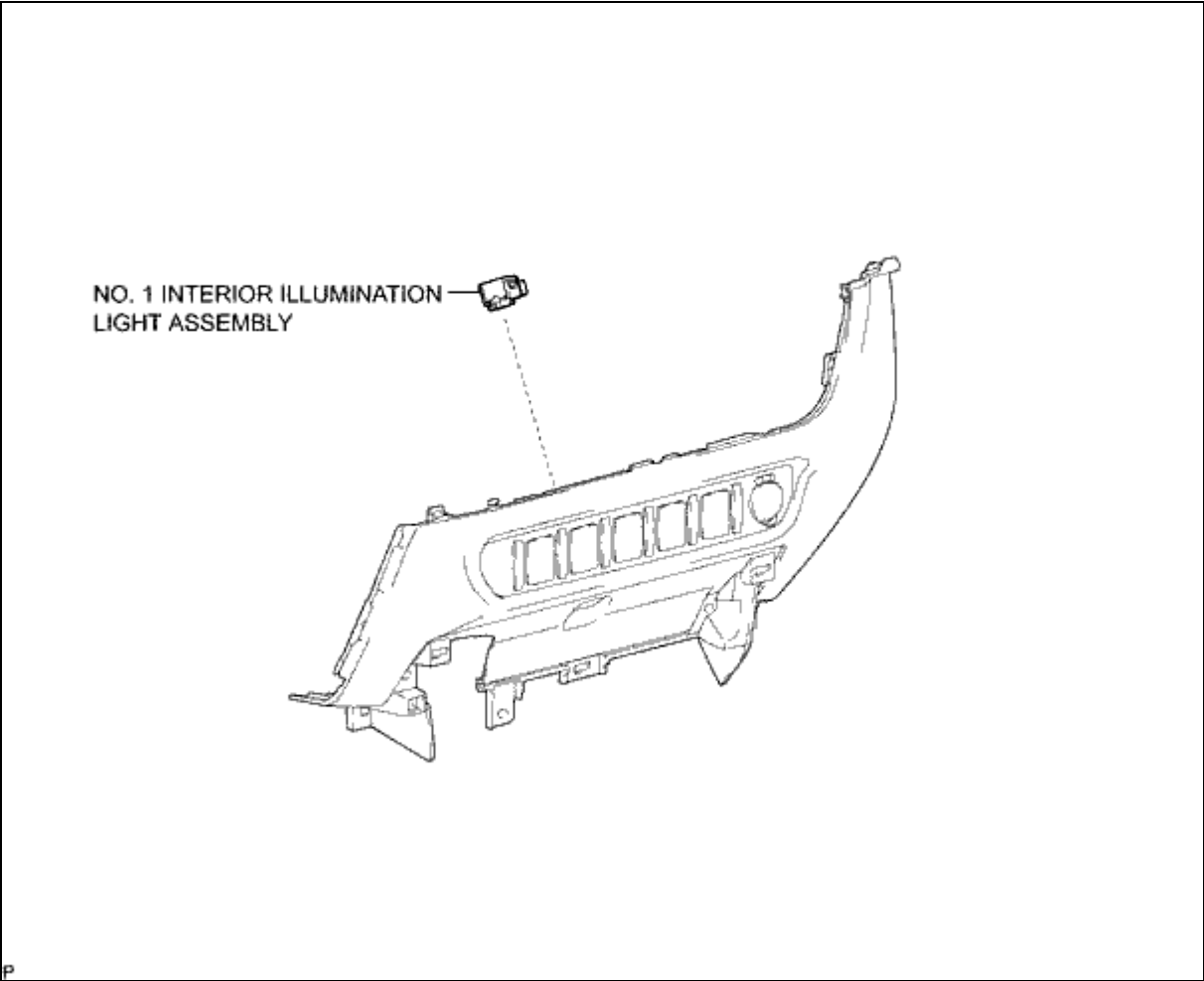
(d) Disconnect the connector to remove the center stop light assembly.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VTG000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: INTERIOR ILLUMINATION LIGHT: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



P

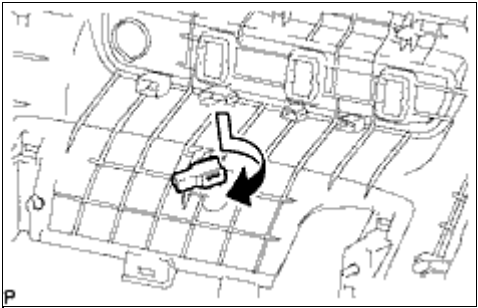


Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VTF000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: INTERIOR ILLUMINATION LIGHT: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL NO. 1 INTERIOR ILLUMINATION LIGHT ASSEMBLY

- (a) Turn the No. 1 interior illumination light assembly in the direction indicated by the arrow shown in the illustration to install it.



2. INSTALL INSTRUMENT PANEL LOWER CENTER FINISH PANEL

INFO



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VTH000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: INTERIOR ILLUMINATION LIGHT: REMOVAL; 2016 MY Tacoma [08/2015 -]		

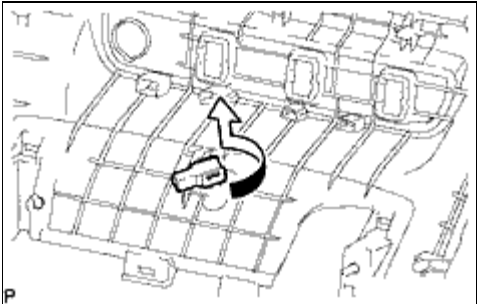
REMOVAL

1. REMOVE INSTRUMENT PANEL LOWER CENTER FINISH PANEL

INFO

2. REMOVE NO. 1 INTERIOR ILLUMINATION LIGHT ASSEMBLY

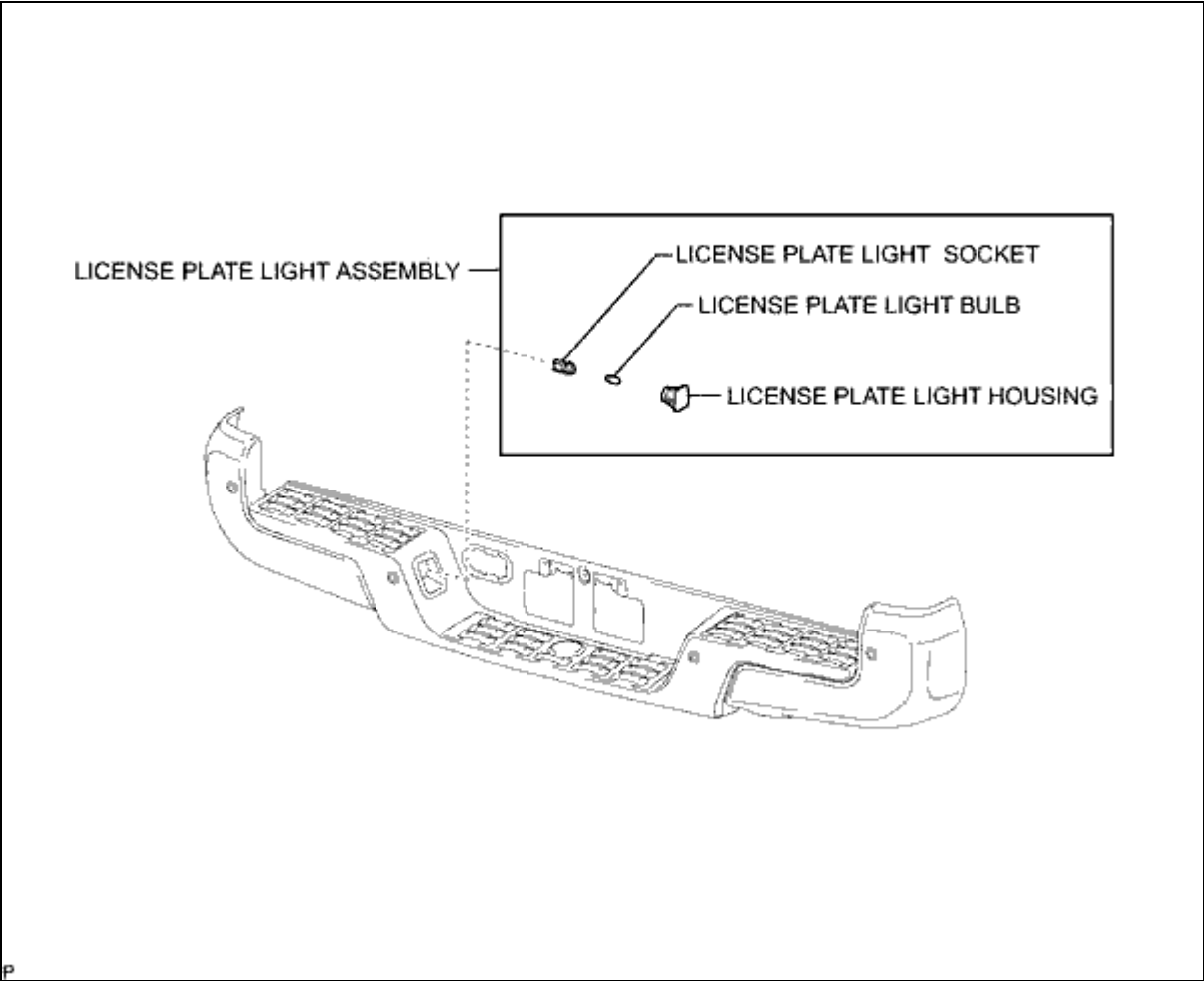
- (a) Turn the No. 1 interior illumination light assembly in the direction indicated by the arrow in the illustration to remove it.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016Y600AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LICENSE PLATE LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



P



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016Y500AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LICENSE PLATE LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

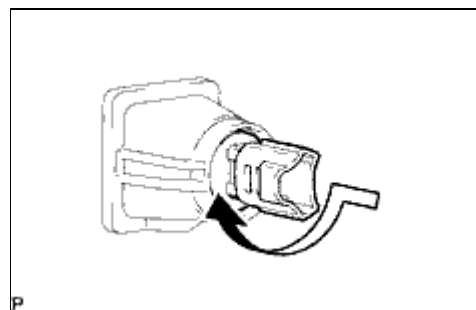
HINT:

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

1. INSTALL LICENSE PLATE LIGHT BULB

(a) Install the license plate light bulb to the license plate light socket.

(b) Turn the license plate light socket with the license plate light bulb in the direction indicated by the arrow shown in the illustration to install them.



2. INSTALL LICENSE PLATE LIGHT ASSEMBLY

(a) Engage the guide and 2 claws to install the license plate light assembly.

3. INSTALL REAR BUMPER ASSEMBLY



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016Y700AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LICENSE PLATE LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

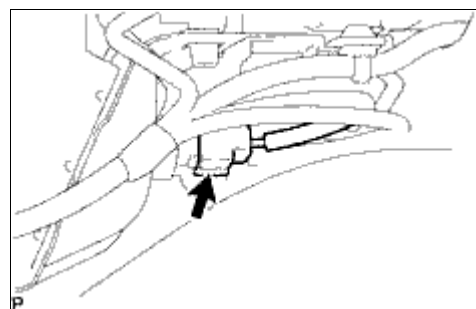
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

1. REMOVE REAR BUMPER ASSEMBLY

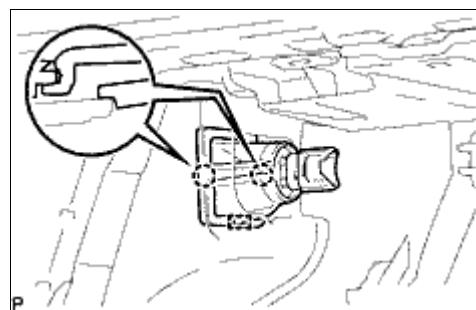
INFO

2. REMOVE LICENSE PLATE LIGHT ASSEMBLY

(a) Disconnect the connector.

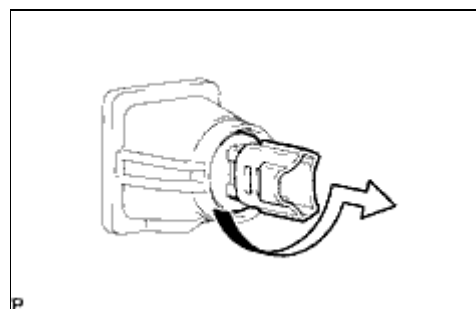


(b) Disengage the 2 claws and guide to remove the license plate light assembly.



3. REMOVE LICENSE PLATE LIGHT BULB

(a) Turn the license plate light socket with the license plate light bulb in the direction indicated by the arrow shown in the illustration to remove them.



(b) Remove the license plate light bulb from the license plate light socket.



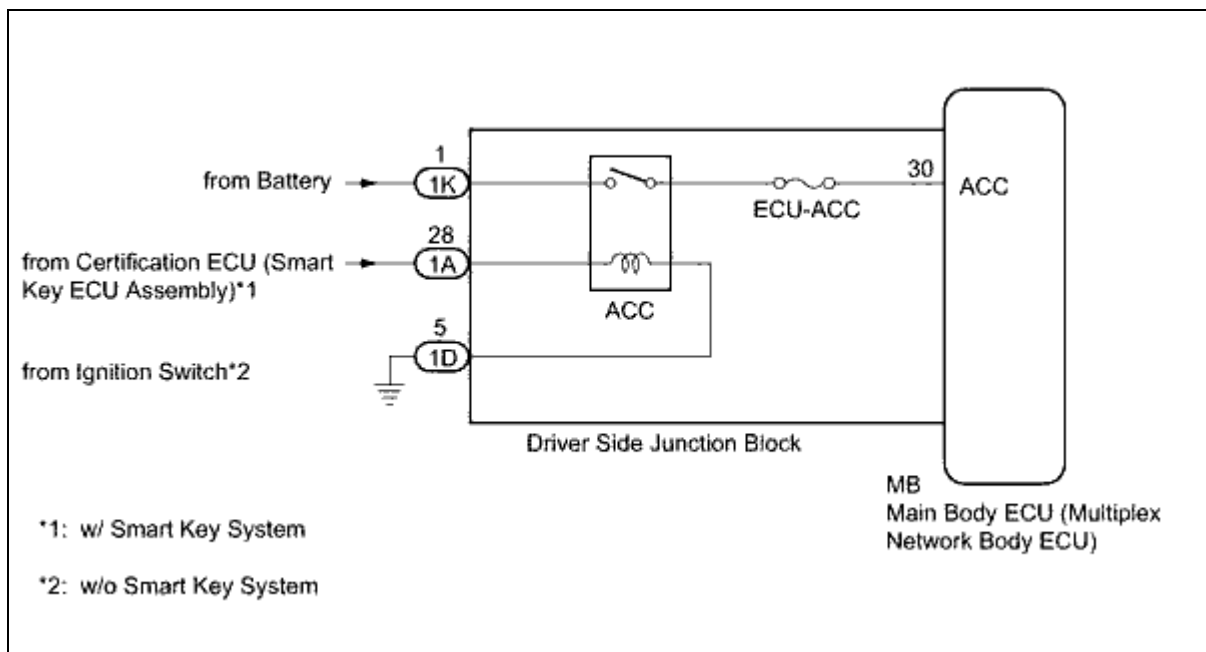
Last Modified: 11-13-2015	6.6 J	Doc ID: RM0000011SQ0MYX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: ACC Signal Circuit; 2016 MY Tacoma [08/2015 -]		

ACC Signal Circuit

DESCRIPTION

This circuit detects whether the ignition switch is ACC or off, and sends this information to the main body ECU (multiplex network body ECU).

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1
- *1: w/ Smart Key System

PROCEDURE

1.	READ VALUE USING TECHSTREAM (ACC SW)
-----------	---

- Connect the Techstream to the DLC3.
- Turn the ignition switch to ON.
- Turn the Techstream on.

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

(e) According to the display on the Techstream, read the Data List.

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	"ON" is also displayed for this item when the ignition switch is ON.

OK:

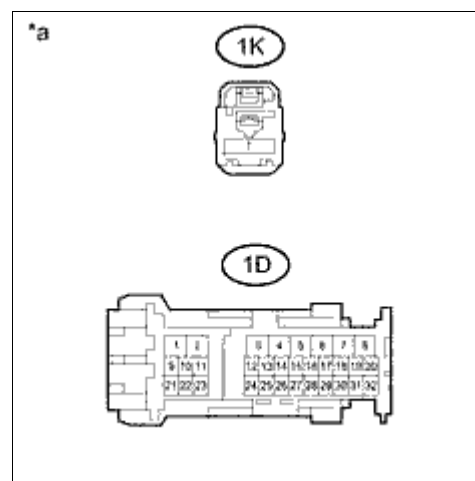
The display is as specified in the normal condition column.

NG ► **GO TO STEP 2**

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

2.	CHECK HARNESS AND CONNECTOR (DRIVER SIDE JUNCTION BLOCK - BATTERY AND BODY GROUND)
----	---

(a) Disconnect the driver side junction block connectors.



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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1K-1 - Body ground	Always	11 to 14 V

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
-------------------	-----------	---------------------

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1D-5 - Body ground	Always	Below 1 Ω

Text in Illustration

*a	Front view of wire harness connector (to Driver Side Junction Block)
----	---

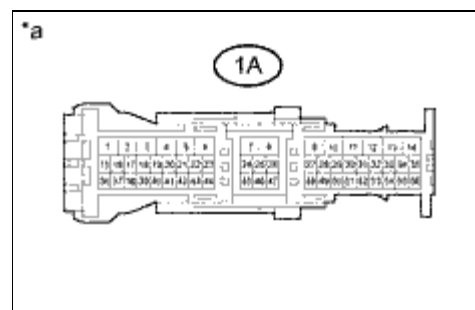
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



3.	CHECK HARNESS AND CONNECTOR (ACC POWER SOURCE CIRCUIT)
-----------	---

(a) Disconnect the driver side junction block connector.



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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1A-28 - Body ground	Ignition switch ACC	11 to 14 V

Text in Illustration

*a	Front view of wire harness connector (to Driver Side Junction Block)
----	---

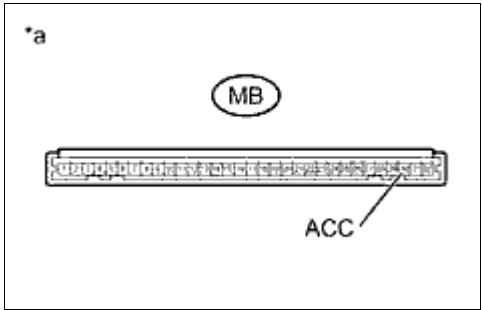
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



4.	CHECK DRIVER SIDE JUNCTION BLOCK
----	----------------------------------

(a) Remove the driver side junction block INFO .



(b) Reconnect the 1K, 1A and 1D driver side junction block connectors.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
MB-30 (ACC) - Body ground	Ignition switch ACC	11 to 14 V

Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)
----	---

NG ▶ REPLACE DRIVER SIDE JUNCTION BLOCK

OK ▶ REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



Last Modified: 11-13-2015	6.6 C	Doc ID: RM000002WP301FX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: B1244; Light Sensor Circuit Malfunction; 2016 MY Tacoma [08/2015 -]		

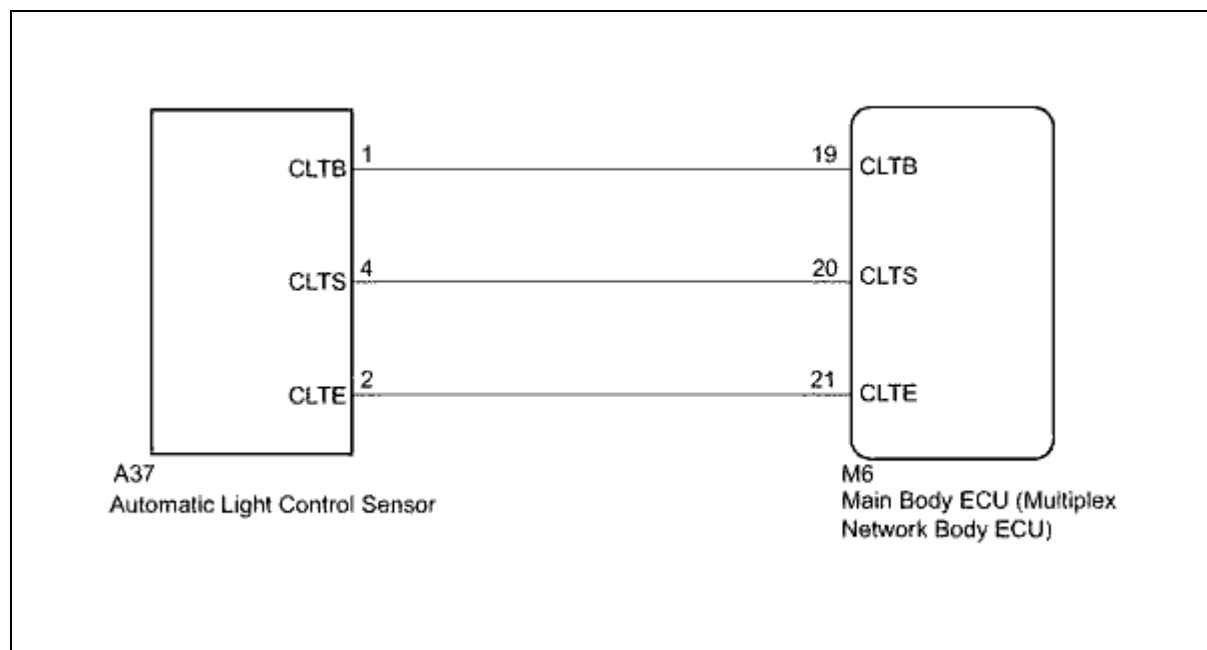
DTC	B1244	Light Sensor Circuit Malfunction
------------	--------------	---

DESCRIPTION

This DTC is output when a failure of the automatic light control sensor circuit is detected.

DTC CODE	DTC DETECTION CONDITION	TROUBLE AREA
B1244	When either condition below is met: • Malfunction of light sensor • Open or short of light sensor circuit	• Automatic light control sensor • Harness or connector • Main body ECU (Multiplex network body ECU)

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1

*1: w/ Smart Key System

PROCEDURE

1. CHECK FOR DTC

(a) Clear the DTC  .

(b) Recheck for DTC  .

OK:

DTC B1244 is not output.

NG  **GO TO STEP 2**

OK  **USE SIMULATION METHOD TO CHECK**

2. READ VALUE USING TECHSTREAM (LIGHT SENSOR ILLUMINANCE)

(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) According to the display on the Techstream, read the Data List.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Light Sensor Illuminance	Light control sensor illuminance / 0 to 8191 lx	Value is output according to ambient light level	-

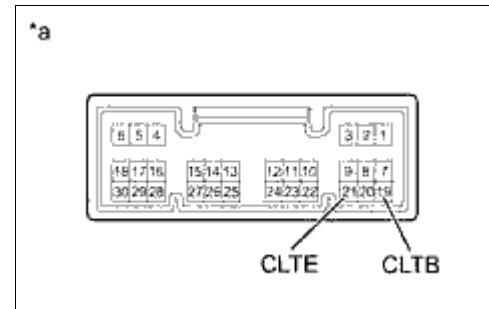
OK:

Output illuminance is as shown in table above.

NG  **GO TO STEP 3**

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

3. CHECK MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) (LIGHT CONTROL SENSOR VOLTAGE)



(a) Disconnect the ECU connector.

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

Standard voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
19 (CLTB) - 21 (CLTE)	Ignition switch ON	11 to 14 V
	Ignition switch OFF	Below 1 V

Text in Illustration

*a	Component without harness connected (Main Body ECU (Multiplex Network Body ECU))
----	---

NG **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

OK



4.	CHECK HARNESS AND CONNECTOR (MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) - AUTOMATIC LIGHT CONTROL SENSOR)
-----------	--

(a) Disconnect the M6 main body ECU (multiplex network body ECU) connector.

(b) Disconnect the A37 automatic light control sensor connector.

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

Standard resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
M6-19 (CLTB) - A37-1 (CLTB)	Always	Below 1 Ω
M6-20 (CLTS) - A37-4 (CLTS)		
M6-21 (CLTE) - A37-2 (CLTE)		
M6-19 (CLTB) - Body ground	Always	10 k Ω or higher

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
M6-20 (CLTS) - Body ground		
M6-21 (CLTE) - Body ground		

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ► REPLACE AUTOMATIC LIGHT CONTROL SENSOR



Last Modified: 11-13-2015	6.6 D	Doc ID: RM000002X0L04FX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: CUSTOMIZE PARAMETERS; 2016 MY Tacoma [08/2015 -]		

CUSTOMIZE PARAMETERS

1. CUSTOMIZING FUNCTION WITH TECHSTREAM

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.

HINT:

The following items can be customized.

(a) Customizing with the Techstream.

- (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 or Light Control.
- (5) Select the setting by referring to the table below.

Illuminated Entry

TESTER DISPLAY	DESCRIPTION	DEFAULT	SETTING	ECU
Lighting Time	Changes the lighting time of the following lights that are operated by the timer function when the interior light DOOR switch of the Roof Console Box Assembly (Map Light) is on: • Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light)	15 s	10:30 s,00:15 s,01:7.5 s	Main body ECU (Multiplex network body ECU)
I/L when ACC OFF	Turns off the following lights automatically when the interior light DOOR switch of the Roof Console Box Assembly (Map Light) is on and the ignition switch is turned from ON or ACC to off: • Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light)	ON	0:OFF,1:ON	Main body ECU (Multiplex network body ECU)
I/L ON W/Door key Unlock	Lights up the following lights automatically when the interior light DOOR switch of the Roof Console Box Assembly (Map Light) is on and the doors are unlocked by an unlock operation (entry unlock function):	ON	0:OFF,1:ON	Main body ECU (Multiplex network body ECU)

TESTER DISPLAY	DESCRIPTION	DEFAULT	SETTING	ECU
	• Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light)			
Room Light when Aprchd	Lights up the following lights when the interior light DOOR switch of the Roof Console Box Assembly (Map Light) is on and the electrical key transmitter sub-assembly is brought near the vehicle*1: • Engine Switch Illumination • Roof Console Box Assembly (Map Light)	ON	0:OFF,1:ON	Main body ECU (Multiplex network body ECU)
Interior Light Control	Lights up the following lights: • Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light)	ON	0:OFF,1:ON	Main body ECU (Multiplex network body ECU)

*1: w/ Smart Key System

*2: w/o Smart Key System

Light Control

TESTER DISPLAY	DESCRIPTION	DEFAULT	SETTING	ECU
Disp Ex ON Sen	Changes the ambient brightness level required to dim the lights such as the indicator lights of the combination meter, A/C indicator light and clock.*A	NORMAL	000:NORMAL,001:DARK2,010:DARK1,011:LIGHT1,100:LIGHT2	Main body ECU (Multiplex network body ECU)
Disp Ex OFF Sen	Changes the ambient brightness level required to cancel the dimming of the lights such as the indicator lights of the combination	NORMAL	000:NORMAL,001:DARK2,010:DARK1,011:LIGHT1,100:LIGHT2	Main body ECU (Multiplex network body ECU)

TESTER DISPLAY	DESCRIPTION	DEFAULT	SETTING	ECU
	meter, A/C indicator light and clock.*B			
Light Auto OFF Delay	Keep the headlights on for a certain period of time after turning the ignition switch off and closing all doors with the low beam headlights on.*	30s	00:OFF,01:30 s,10:60 s,11:90 s	Main body ECU (Multiplex network body ECU)
Sensitivity	Adjusts the sensitivity of the automatic light control system.*C	Normal	000:Normal,001:Dark2,010:Dark1,011:Light1,100:Light2	Main body ECU (Multiplex network body ECU)
DRL Function	Turns the DRL system on or off.*	ON	0:OFF,1:ON	Main body ECU (Multiplex network body ECU)

*: w/ DRL OFF Switch

HINT:

The sensitivity adjustment may be difficult to confirm. Check by driving the vehicle.

*A

Brightness level required to dim the lights	Dark ←————→ Bright				
Setting	DARK2	DARK1	NORMAL	LIGHT1	LIGHT2

*B

Brightness level required to cancel the dimming of the lights	Dark ←————→ Bright				
Setting	DARK2	DARK1	NORMAL	LIGHT1	LIGHT2

*C

Sensitivity of the automatic light control system	Dark ←————→ Bright				
Setting	DARK2	DARK1	NORMAL	LIGHT1	LIGHT2

(b) Customizing using the radio and display receiver assembly (for Radio and Display Type) or navigation receiver assembly (for Navigation Receiver Type).

- (1) Turn the ignition switch to ON.
- (2) Enter the following menus: MENU / Setup / Vehicle / Vehicle Customization / Lights Settings (for Radio and Display Type).
- (3) Enter the following menus: APPS / Setup / General / Vehicle / Vehicle Customization / Lights Settings (for Navigation Receiver Type).
- (4) Select the setting by referring to the table below.

Lights Settings

TESTER DISPLAY	DESCRIPTION	DEFAULT	SETTING	ECU
Headlamps-On Sensitivity	Adjusts the sensitivity of the automatic light control system.*A	0	-2, -1, 0, +1 or +2	Main body ECU (Multiplex network body ECU)
Headlamps Auto-Off Timer	Keep the headlights on for a certain period of time after turning the ignition switch off and closing all doors with the low beam headlights on.	30 sec.	Off, 30 sec., 60 sec. or 90 sec.	Main body ECU (Multiplex network body ECU)
Daytime Running Lights	Turns the DRL system on or off.	On	On or Off	Main body ECU (Multiplex network body ECU)
Interior Lights Off Timer	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,)	15 sec.	7.5 sec., 15 sec. or 30 sec.	Main body ECU (Multiplex network body ECU)

HINT:

The sensitivity adjustment may be difficult to confirm. Check by driving the vehicle.

*A

Sensitivity of the automatic light control system	Dark ←————→ Bright				
Setting	-2	-1	0	+1	+2



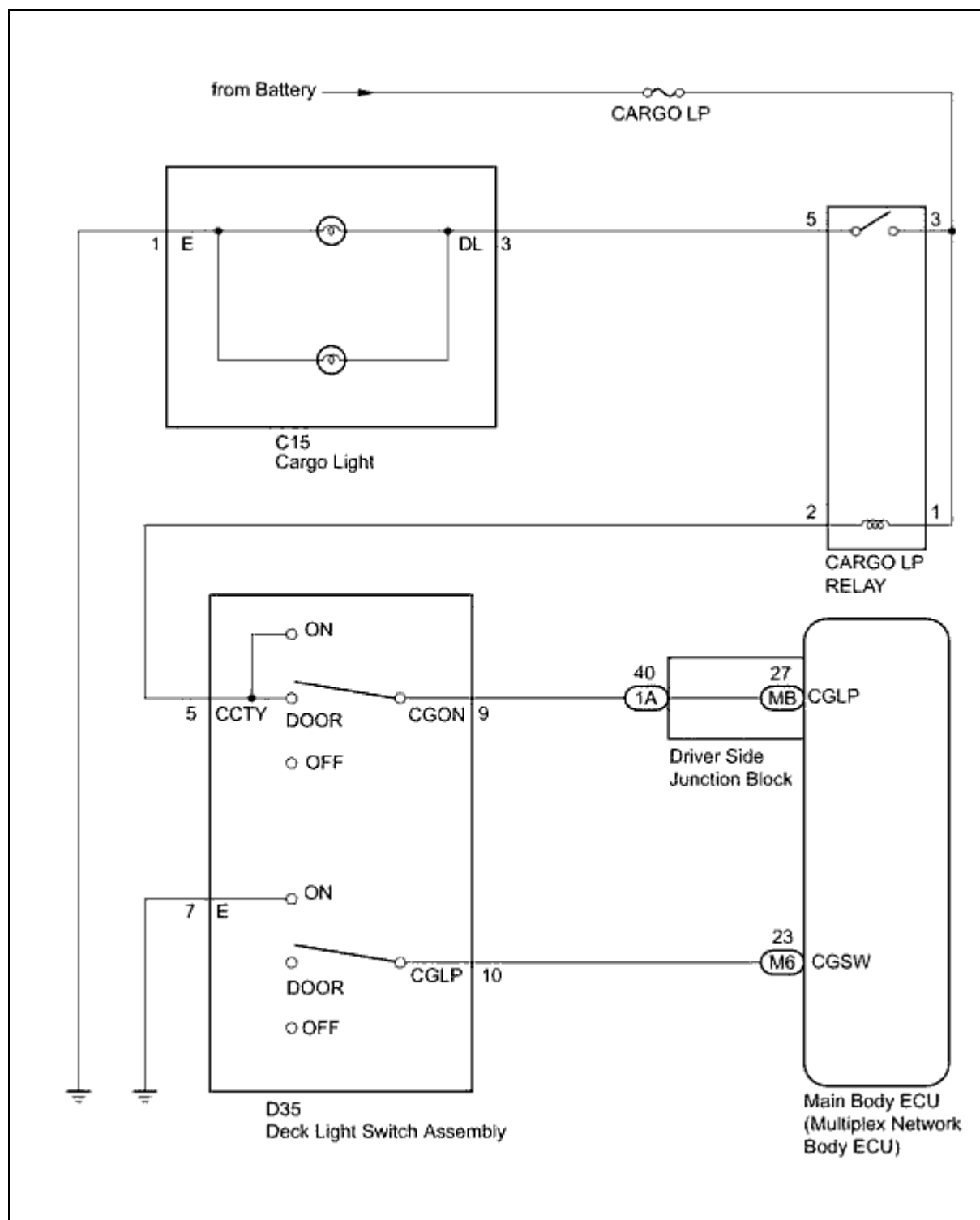
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000002WL802LX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Cargo Light Circuit; 2016 MY Tacoma [08/2015 -]		

Cargo Light Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) receives a cargo light information signal from the deck light switch assembly and door courtesy light switch, and illuminates the cargo light.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
- If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1

*1: w/ Smart Key System

PROCEDURE

1. PERFORM ACTIVE TEST USING TECHSTREAM (CARGO LIGHT)

- (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) Perform the Active Test according to the display on the Techstream.

Main Body ECU

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Cargo Light	Cargo light	ON or OFF	Deck light switch assembly is DOOR or on

OK:

Cargo light turns on / turns off.

NG ► GO TO STEP 2

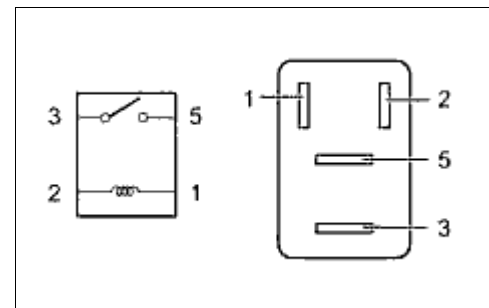
OK ► PROCEED TO NEXT CIRCUIT INSPECTION SHOWN
IN PROBLEM SYMPTOMS TABLE

2. INSPECT CARGO RELAY

- (a) Remove the CARGO relay from the junction block assembly.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Battery voltage not applied to terminals 1 and 2	10 k Ω or higher
3 - 5	Battery voltage applied to terminals 1 and 2	Below 1 Ω



NG ► REPLACE CARGO RELAY

OK



3. CHECK HARNESS AND CONNECTOR (CARGO FUSE - CARGO RELAY)

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 1- Body ground	Always	11 to 14 V
Relay terminal 3- Body ground	Always	11 to 14 V

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

4. CHECK HARNESS AND CONNECTOR (CARGO RELAY - CENTER STOP LIGHT ASSEMBLY (CARGO LIGHT))

(a) Disconnect the C15 cargo light connector.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 5 - C15-3 (DL)	Always	Below 1 Ω
Relay terminal 3 - Body ground	Always	10 k Ω or higher
C15-1 (E) - Body ground	Always	Below 1 Ω

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK

5. INSPECT CARGO LIGHT

(a) Remove the cargo light  .

(b) Inspect the cargo light  .

NG  REPLACE CARGO LIGHT

OK



6. INSPECT DECK LIGHT SWITCH ASSEMBLY

- (a) Remove the deck light switch assembly  .
- (b) Inspect the deck light switch assembly  .

NG  **REPLACE DECK LIGHT SWITCH ASSEMBLY**

OK



7. CHECK HARNESS AND CONNECTOR (DECK LIGHT SWITCH ASSEMBLY - CARGO RELAY AND BODY GROUND)

- (a) Disconnect the D35 deck light switch assembly connector.
- (b) Remove the CARGO relay from the junction block assembly.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
D35-5 (CCTY) - Relay terminal 2	Always	Below 1 Ω
D35-5 (CCTY) - Body ground	Always	10 k Ω or higher
D35-7 (E) - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



8. CHECK HARNESS AND CONNECTOR (DECK LIGHT SWITCH ASSEMBLY - DRIVER SIDE JUNCTION BLOCK AND MAIN BODY ECU)

- (a) Disconnect the D35 deck light switch assembly connector.

- (b) Disconnect the 1A driver side junction block connector.
- (c) Disconnect the M6 main body ECU (multiplex network body ECU) connector.
- (d) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D35-9 (CGON) - 1A-40	Always	Below 1 Ω
D35-9 (CGON) - Body ground	Always	10 k Ω or higher
D35-10 (CGLP) - M6-23 (CGSW)	Always	Below 1 Ω
D35-10 (CGLP) - Body ground	Always	10 k Ω or higher

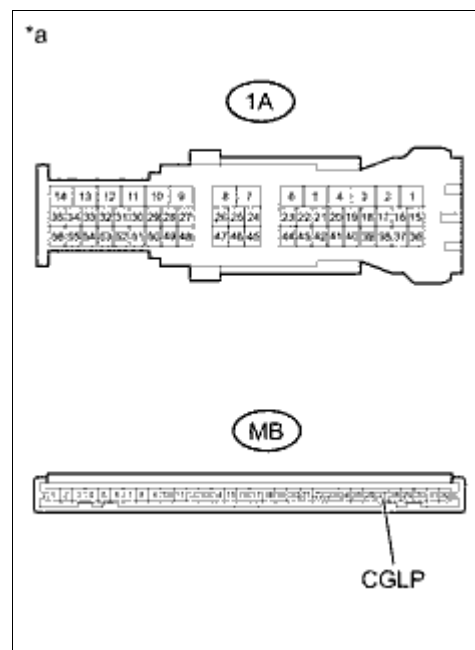
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



9.	INSPECT DRIVER SIDE JUNCTION BLOCK
-----------	---

- (a) Remove the driver side junction block  .



- (b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
-------------------	-----------	---------------------

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1A-40 - MB-27 (CGLP)	Always	Below 1 Ω

Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)
----	---

NG ► REPLACE DRIVER SIDE JUNCTION BLOCK

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



Last Modified: 11-13-2015	6.6 U	Doc ID: RM000002WL5032X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: DATA LIST / ACTIVE TEST; 2016 MY Tacoma [08/2015 -]		

DATA LIST / ACTIVE TEST

1. DATA LIST

HINT:

Using the Techstream to read the Data List allows 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 table below, 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 or Combination Meter / Data List.
- According to the display on the Techstream, read the "Data List".

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	"ON" is also displayed for this item when the ignition switch is ON.
IG SW	Ignition switch ON signal / ON or OFF	ON: Ignition switch on OFF: Ignition switch off	"OFF" is also displayed for this item when the ignition switch is ACC.
Parking Brake SW	Parking brake switch signal / ON or OFF	ON: Parking brake switch on OFF: Parking brake switch off	-
RR Door Courtesy SW	Rear door courtesy light switch assembly RH signal / ON or OFF	ON: Rear door RH open OFF: Rear door RH closed	-
RL Door Courtesy SW	Rear door courtesy light switch assembly LH signal / ON or OFF	ON: Rear door LH open OFF: Rear door LH closed	-

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Cargo Light Switch	Deck light switch signal / ON or OFF	ON: Deck light switch on OFF: Deck light switch off	-
FR Door Lock Pos	Front door RH unlock detection switch signal / ON or OFF	LOCK: Front door RH locked UNLOCK: Front door RH unlocked	-
FR Door Courtesy SW	Front door courtesy light switch assembly RH signal / ON or OFF	ON: Front door RH open OFF: Front door RH closed	-
FL Door Lock Pos	Front door LH unlock detection switch signal / LOCK or UNLOCK	LOCK: Front door LH locked UNLOCK: Front door LH unlocked	-
FL Door Courtesy SW	Front door courtesy light switch assembly LH signal / ON or OFF	ON: Front door LH open OFF: Front door LH closed	-
RR-Door Lock Pos SW	Rear door RH unlock detection switch signal / LOCK or UNLOCK	ON: Rear door RH unlocked OFF: Rear door RH locked	-
RL-Door Lock Pos SW	Rear door LH unlock detection switch signal / ON or OFF	ON: Rear door LH unlocked OFF: Rear door LH locked	-
Dimmer SW	Dimmer switch high position signal / ON or OFF	ON: Dimmer switch in high or high flash position OFF: Dimmer switch not in high flash position	-
Passing Light SW	Dimmer switch high flash position (pass) signal / ON or OFF	ON: Dimmer switch in high flash position OFF: Dimmer switch not in high flash position	-
Front Fog Light SW	Fog light switch front position signal / ON or OFF	ON: Fog light switch in front position OFF: Fog light switch off	w/ Fog Light

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Auto Light SW	Light control switch AUTO position signal / ON or OFF	ON: Light control switch in AUTO position OFF: Light control switch not in AUTO position	w/ Automatic High Beam System
Head Light SW (Head)	Light control switch head position signal / ON or OFF	ON: Light control switch in head position OFF: Light control switch not in head position	-
Head Light SW (Tail)	Light control switch tail position signal / ON or OFF	ON: Light control switch in tail or head position OFF: Light control switch in neither tail nor head position	-
Light Sensor Illuminance	Light control sensor illuminance / 0 to 8191 lx	Value is output according to ambient light level	-
Interior Light Control	Operation of the illuminated entry system / OFF or ON	Customized value is displayed	Displayed only when All Data is selected.
I/L ON W/Door Key Unlock	Function that lights up the interior lights when the doors are unlocked / OFF or ON	Customized value is displayed	Displayed only when All Data is selected.
Lighting Time	Lighting time of the delay control function (illuminated entry system) / 15 s, 7.5 s or 30 s	Customized value is displayed	Displayed only when All Data is selected.
Room Light when Aprchd	Function that lights up the interior lights when a key enters any actuation area*1 / OFF or ON	Customized value is displayed	Displayed only when All Data is selected.
I/L when ACC OFF	Function that lights up the interior lights when the ignition switch is turned from ON or ACC to off / OFF or ON	Customized value is displayed	Displayed only when All Data is selected.
Sensitivity	Sensitivity of the automatic light control system / Light2, Light1, Normal, Dark1 or Dark2	Customized value is displayed	-
DRL Function	DRL function / ON or OFF	Customized value is displayed	*
Disp Ex ON Sen	Ambient brightness level required to dim display lights (combination meter, navigation display, etc.) / Light2, Light1, Normal, Dark1 or Dark2	Customized value is displayed	-

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Disp Ex OFF Sen	Ambient brightness level required to cancel dimming display lights (combination meter, navigation display, etc.) / Light2, Light1, Normal, Dark1 or Dark2	Customized value is displayed	-
Light Auto OFF Delay	Light auto OFF delay / Off, 30 s, 60 s, or 90 s	Customized value is displayed	*

*: w/ DRL OFF Switch

Combination Meter

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Turn Signal Switch (Right)	Turn signal switch (right) signal / ON or OFF	ON: Turn signal switch (right) on OFF: Turn signal switch (right) off	-
Turn Signal Switch (Left)	Turn signal switch (left) signal / ON or OFF	ON: Turn signal switch (left) on OFF: Turn signal switch (left) off	-
Hazard Flasher Switch	Hazard warning signal switch signal / ON or OFF	ON: Hazard warning signal switch on OFF: Hazard warning signal switch off	-
Turn Switch Signal (Full Turn)	Turn signal switch (full turn) signal / ON or OFF	ON: Turn signal switch (left or right) on OFF: Turn signal switch (left and right) off	-

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 or Smart Key / Active Test.
- According to the display on the Techstream, perform the "Active Test".

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
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TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Daytime Running Light	Daytime running lights	ON/OFF	-
Illuminated Entry System	Turns on the lights that are controlled by the illuminated entry system*	ON or OFF	Perform the Active Test with interior light DOOR switch in the map light assembly turned on.
Cargo Light	Cargo light	ON/OFF	-
Taillight Relay	Taillight relay	ON/OFF	-
Headlight Relay	Headlight relay (Low beam headlights)	ON/OFF	-
Head Light Hi	High beam headlights	ON/OFF	-
Front Fog Light Relay	Front fog light relay	ON/OFF	Light control switch in tail position
Relay for Interior Light Auto Cut Function	DOME CUT relay	ON/OFF	When performing this Active Test, turn on each interior lights. • ON: DOME CUT relay off (interior lights turn off) • OFF: DOME CUT relay on (interior lights turn on)

*: Refer to Description for the lights that are controlled by the illuminated entry system  .

Smart Key

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Power/Engine SW Light	Engine Switch illumination*	ON/OFF	When performing this Active Test, make sure the following condition is met: The engine switch illumination is off (15 seconds or more have elapsed since it turned from on to off) and the ignition switch is ON or ACC, or the engine is running

*: w/ Smart Key System



Last Modified: 11-13-2015	6.6 S	Doc ID: RM000002WP201GX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: DIAGNOSTIC TROUBLE CODE CHART; 2016 MY Tacoma [08/2015 -]		

DIAGNOSTIC TROUBLE CODE CHART

HINT:

If a trouble code is displayed during the DTC check, inspect the trouble areas listed for that code. For details of the code, refer to the "See page" below.

Lighting system

DTC CODE	DETECTION ITEM	SEE PAGE
B1244	Light Sensor Circuit Malfunction	INFO



Last Modified: 11-13-2015	6.6 D	Doc ID: RM000002WP402LX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: DTC CHECK / CLEAR; 2016 MY Tacoma [08/2015 -]		

DTC CHECK / CLEAR

1. CHECK DTC

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch ON.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Body Electrical / Main Body / Trouble Codes.
- (e) Check for DTCs.

2. CLEAR DTC

- (a) Connect the Techstream to the DLC3.
- (b) Turn the ignition switch ON.
- (c) Turn the Techstream on.
- (d) Enter the following menus: Body Electrical / Main Body / Trouble Codes.
- (e) Clear the DTCs.



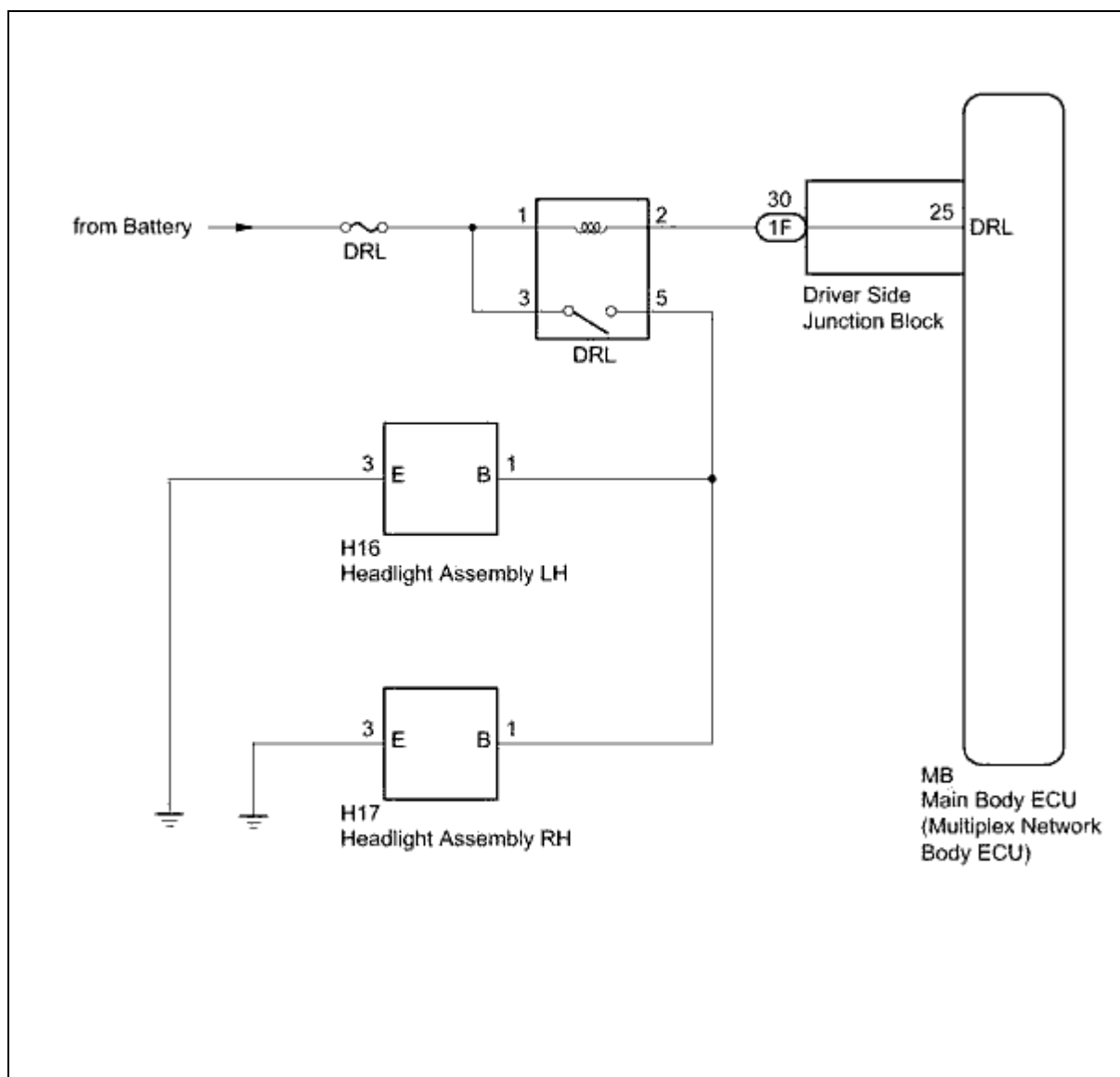
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000000ZBS05VX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Daytime Running Light Relay Circuit; 2016 MY Tacoma [08/2015 -]		

Daytime Running Light Relay Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) controls the daytime running lights.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

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

- If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1
*1: w/ Smart Key System

PROCEDURE

1. PERFORM ACTIVE TEST USING TECHSTREAM (DAYTIME RUNNING LIGHT)

- 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.
- Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Daytime Running Light	Daytime running lights	ON/OFF	-

OK:

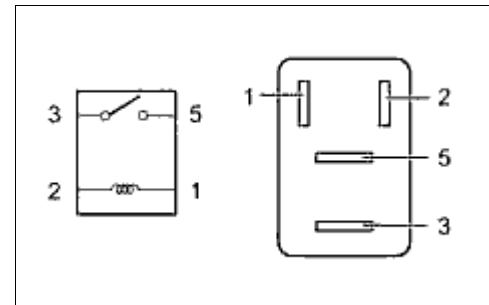
Daytime running lights illuminate.

NG ▶ GO TO STEP 2

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

2. INSPECT RUNNING LIGHT RELAY (DRL)

- Remove the running light relay.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Battery voltage not applied to terminals 1 and 2	10 k Ω or higher
3 - 5	Battery voltage applied to terminals 1 and 2	Below 1 Ω

NG  **REPLACE RUNNING LIGHT RELAY**

OK



3.	CHECK HARNESS AND CONNECTOR (BATTERY - RUNNING LIGHT RELAY)
-----------	--

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 1 - Body ground	Always	11 to 14 V
Relay terminal 3 - Body ground	Always	11 to 14 V

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



4.	CHECK HARNESS AND CONNECTOR (RUNNING LIGHT RELAY - DRIVER SIDE JUNCTION BLOCK AND BODY GROUND)
-----------	---

(a) Disconnect the 1F driver side junction block connector.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Running light relay terminal 2 - 1F-30	Always	Below 1 Ω
1F-30 - Body ground	Always	10 k Ω or higher

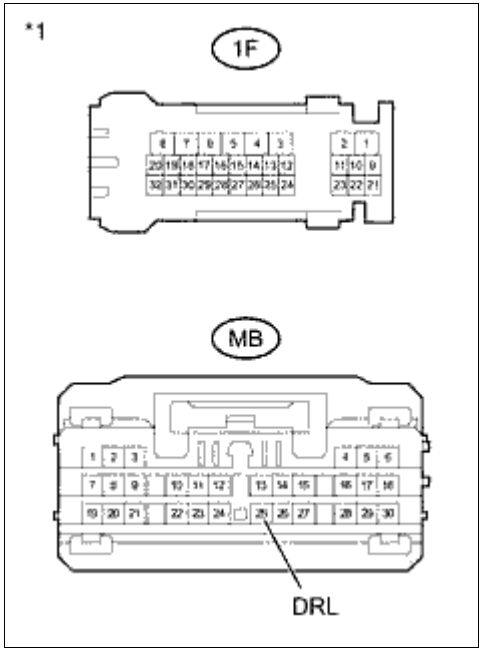
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



5.	INSPECT DRIVER SIDE JUNCTION BLOCK
----	---

(a) Remove the driver side junction block.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1F-30 - MB-25 (DRL)	Always	Below 1 Ω
1F-30 - Body ground	Always	10 k Ω or higher

Text in Illustration

*1	Component without harness connected (Driver Side Junction Block)
----	---

NG **REPLACE DRIVER SIDE JUNCTION BLOCK**

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



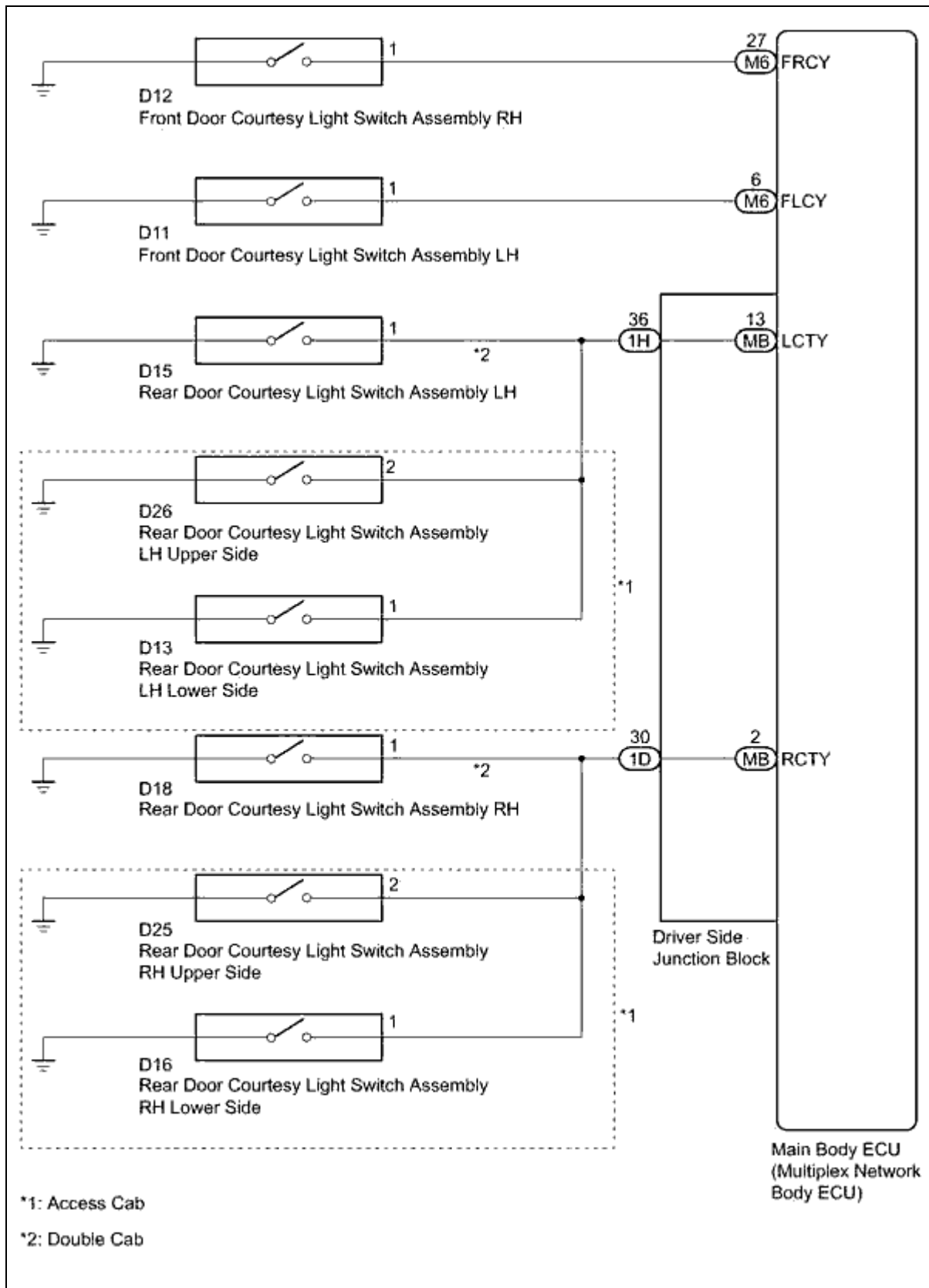
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000005VL1000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Door Courtesy Switch Circuit; 2016 MY Tacoma [08/2015 -]		

Door Courtesy Switch Circuit

DESCRIPTION

The main body ECU (multiplex network Body ECU) receives a door open or closed signal from each door courtesy light switch.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- Recognition code registration is necessary when replacing the main body ECU (multiplex network body ECU).

- If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1
*1: w/ Smart Key System

PROCEDURE

1.	READ VALUE USING TECHSTREAM (DOOR COURTESY LIGHT SWITCH)
-----------	---

- (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) According to the display on the Techstream, read the Data List.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
RR Door Courtesy SW	Rear door courtesy light switch RH signal / ON or OFF	ON: Rear door RH open OFF: Rear door RH closed	-
RL Door Courtesy SW	Rear door courtesy light switch LH signal / ON or OFF	ON: Rear door LH open OFF: Rear door LH closed	-
FR Door Courtesy	Front door courtesy light switch RH signal / ON or OFF	ON: Front door RH closed OFF: Front door RH open	-
FL Door Courtesy	Front door courtesy light switch LH signal / ON or OFF	ON: Front door LH closed OFF: Front door LH open	-

OK:

Normal conditions listed above are displayed.

Result

RESULT	PROCEED TO
OK	A
NG (Rear door courtesy light switch RH does not operate)	B
NG (Rear door courtesy light switch LH does not operate)	C
NG (Front door courtesy light switch RH does not operate)	D
NG (Front door courtesy light switch LH does not operate)	E

B ► GO TO STEP 2

C ► GO TO STEP 5

D ► GO TO STEP 8

E ► GO TO STEP 10

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

2. INSPECT REAR DOOR COURTESY LIGHT SWITCH RH

(a) for Double Cab

- (1) Remove the rear door courtesy light switch RH.
- (2) Inspect the rear door courtesy light switch RH INFO.

(b) for Access Cab

- (1) Remove the rear door courtesy light switch RH upper side.
- (2) Remove the rear door courtesy light switch RH lower side.
- (3) Inspect the rear door courtesy light switch RH upper side INFO.
- (4) Inspect the rear door courtesy light switch RH lower side INFO.

Result

RESULT	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B ► REPLACE REAR DOOR COURTESY LIGHT SWITCH RH

C ► REPLACE REAR DOOR COURTESY LIGHT SWITCH RH

A



3. CHECK HARNESS AND CONNECTOR (REAR DOOR COURTESY LIGHT SWITCH RH -

DRIVER SIDE JUNCTION BLOCK)

(a) for Double Cab

- (1) Disconnect the D18 rear door courtesy light switch RH connector.
- (2) Disconnect the 1D driver side junction block connector.
- (3) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D18-1 - 1D-30	Always	Below 1 Ω
D18-1 - Body ground	Always	10 k Ω or higher

(b) for Access Cab

- (1) Disconnect the D16 and D25 rear door courtesy light switch RH connector.
- (2) Disconnect the 1D driver side junction block connector.
- (3) Measure the resistance according to the value(s) in the table below.

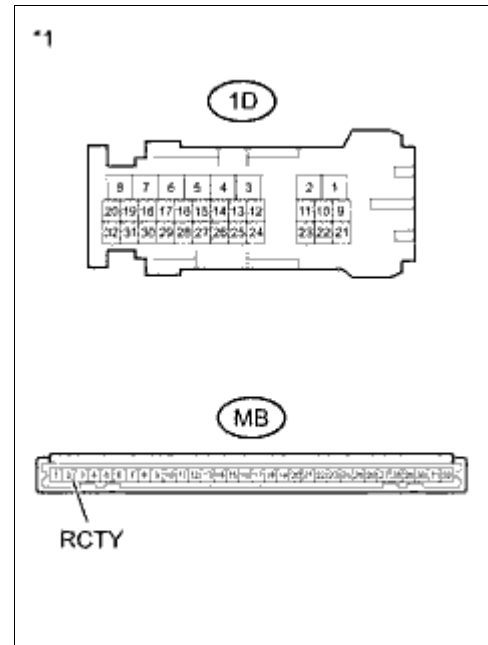
Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D16-1 - 1D-30	Always	Below 1 Ω
D16-1 - Body ground	Always	10 k Ω or higher
D25-2 - 1D-30	Always	Below 1 Ω
D25-2 - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

**4. INSPECT DRIVER SIDE JUNCTION BLOCK**



(a) Remove the driver side junction block [INFO](#) .

(b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block [INFO](#) .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
MB-2 (RCTY) - 1D-30	Always	Below 1 Ω

Text in Illustration

*1	Component without harness connected (Driver Side Junction Block)
----	---

NG ► **REPLACE DRIVER SIDE JUNCTION BLOCK**

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

5.	INSPECT REAR DOOR COURTESY LIGHT SWITCH LH
-----------	---

(a) for Double Cab

- (1) Remove the rear door courtesy light switch LH.
- (2) Inspect the rear door courtesy light switch LH [INFO](#) .

(b) for Access Cab

- (1) Remove the rear door courtesy light switch LH upper side.

- (2) Remove the rear door courtesy light switch LH lower side.
- (3) Inspect the rear door courtesy light switch LH upper side  .
- (4) Inspect the rear door courtesy light switch LH lower side  .

Result

RESULT	PROCEED TO
OK	A
NG (for Double Cab)	B
NG (for Access Cab)	C

B  **REPLACE REAR DOOR COURTESY LIGHT SWITCH LH**

C  **REPLACE REAR DOOR COURTESY LIGHT SWITCH LH**

A



6.	CHECK HARNESS AND CONNECTOR (REAR DOOR COURTESY LIGHT SWITCH LH - DRIVER SIDE JUNCTION BLOCK)
-----------	--

(a) for Double Cab

- (1) Disconnect the D15 rear door courtesy light switch LH connector.
- (2) Disconnect the 1H driver side junction block connector.
- (3) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D15-1 - 1H-36	Always	Below 1 Ω
D15-1 - Body ground	Always	10 k Ω or higher

(b) for Access Cab

- (1) Disconnect the D13 and D26 rear door courtesy light switch LH connector.
- (2) Disconnect the 1H driver side junction block connector.
- (3) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
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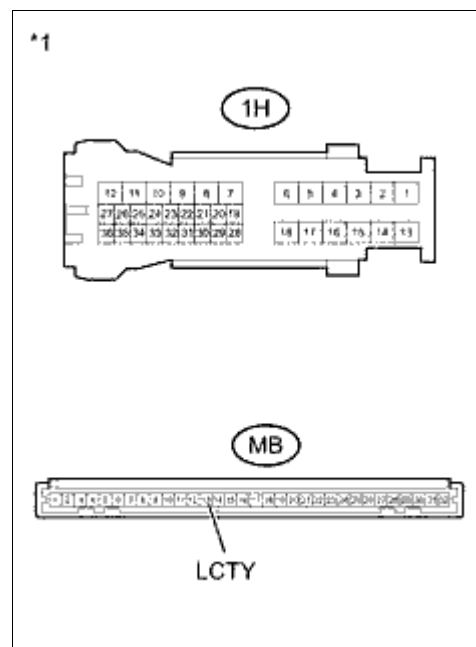
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D13-1 - 1H-36	Always	Below 1 Ω
D13-1 - Body ground	Always	10 k Ω or higher
D26-2 - 1H-36	Always	Below 1 Ω
D26-2 - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



7.	INSPECT DRIVER SIDE JUNCTION BLOCK
-----------	---



(a) Remove the driver side junction block  .

(b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block  .

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
MB-13 (LCTY) - 1H-36	Always	Below 1 Ω

Text in Illustration

*1	Component without harness connected (Driver Side Junction Block)
-----------	---

NG ► REPLACE DRIVER SIDE JUNCTION BLOCK

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)

8. INSPECT FRONT DOOR COURTESY LIGHT SWITCH RH

- (a) Remove the front door courtesy light switch RH.
- (b) Inspect the front door courtesy light switch RH  .

NG ► REPLACE FRONT DOOR COURTESY LIGHT SWITCH RH

OK
▼

9. CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY LIGHT SWITCH RH - MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU))

- (a) Disconnect the D12 front door courtesy light switch RH connector.
- (b) Disconnect the M6 main body ECU (multiplex network body ECU) connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D12-1 - M6-27 (FRCY)	Always	Below 1 Ω
D12-1 - Body ground	Always	10 k Ω or higher

NG ► REPAIR OR REPLACE HARNESS OR CONNECTOR

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)

10. INSPECT FRONT DOOR COURTESY LIGHT SWITCH LH

- (a) Remove the front door courtesy light switch LH.
- (b) Inspect the front door courtesy light switch LH  .

NG  **REPLACE FRONT DOOR COURTESY LIGHT SWITCH LH**

OK



11.	CHECK HARNESS AND CONNECTOR (FRONT DOOR COURTESY LIGHT SWITCH LH - MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU))
------------	---

- (a) Disconnect the D11 front door courtesy light switch LH connector.
- (b) Disconnect the M6 main body ECU (multiplex network body ECU) connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D11-1 - M6-6 (FLCY)	Always	Below 1 Ω
D11-1 - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

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



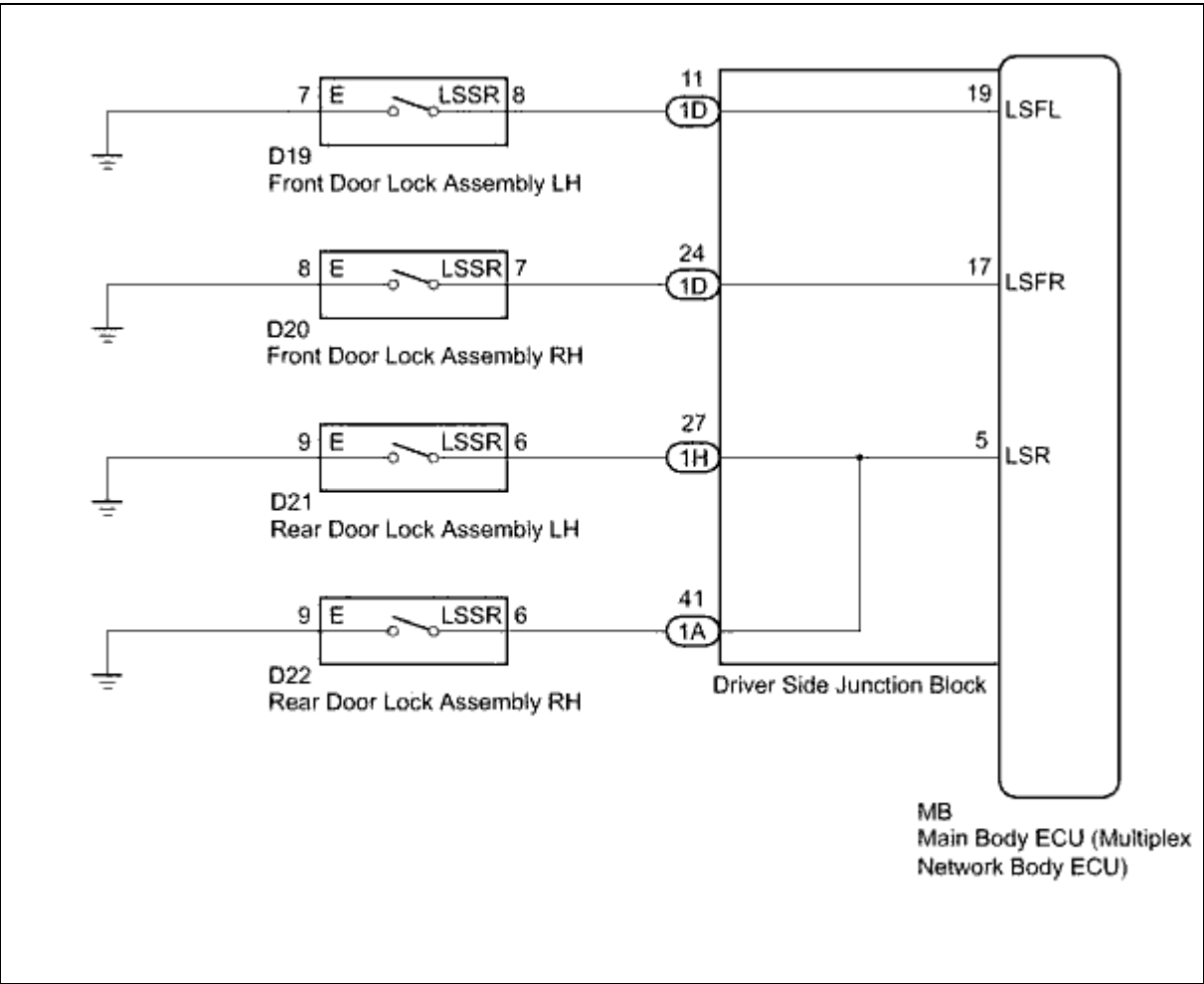
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000005VL0000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Door Unlock Detection Switch Circuit; 2016 MY Tacoma [08/2015 -]		

Door Unlock Detection Switch Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) detects the condition of each door unlock detection switch.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:
If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1
*1: w/ Smart Key System

PROCEDURE

1. READ VALUE USING TECHSTREAM (DOOR LOCK POS)

- (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 Data List according to the display on the Techstream.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
FR Door Lock Pos	Front door RH unlock detection switch signal/LOCK or UNLOCK	LOCK: Front door RH locked UNLOCK: Front door RH unlocked	-
FL Door Lock Pos	Front door LH unlock detection switch signal/LOCK or UNLOCK	LOCK: Front door LH locked UNLOCK: Front door LH unlocked	-
RR-Door Lock Pos SW	Rear door RH unlock detection switch signal/ON or OFF	ON: Rear door RH unlocked OFF: Rear door RH locked	When checking this item, make sure to check it with the rear door LH locked.
RL-Door Lock Pos SW	Rear door LH unlock detection switch/ON or OFF	ON: Rear door LH unlocked OFF: Rear door LH locked	When checking this item, make sure to check it with the rear door RH locked.

Result

RESULT	PROCEED TO
OK	A
"FL Door Lock Pos" is not normal	B
"FR Door Lock Pos" is not normal	C
"RR-Door Lock Pos SW" is not normal	D

B ► GO TO STEP 2

C ► GO TO STEP 5

D ► GO TO STEP 8

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

2. INSPECT FRONT DOOR LOCK ASSEMBLY LH

- (a) Remove the front door lock assembly LH.
- (b) Inspect the front door lock assembly LH.

OK:

Front door lock assembly LH is normal.

NG ► **REPLACE FRONT DOOR LOCK ASSEMBLY LH**

OK

**3. CHECK HARNESS AND CONNECTOR (FRONT DOOR LOCK ASSEMBLY LH - DRIVER SIDE
JUNCTION BLOCK AND BODY GROUND)**

- (a) Disconnect the 1D driver side junction block connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D19-8 (LSSR) - 1D-11	Always	Below 1 Ω
D19-8 (LSSR) - Body ground	Always	10 k Ω or higher
D19-7 (E) - Body ground	Always	Below 1 Ω

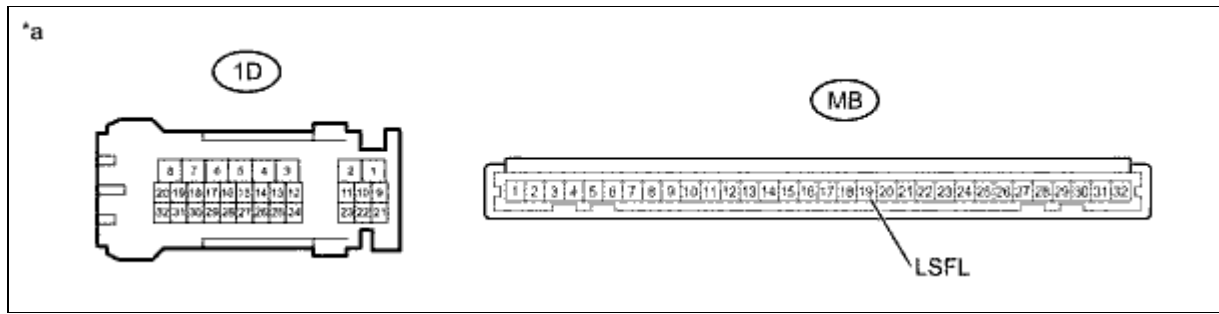
NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

4. INSPECT DRIVER SIDE JUNCTION BLOCK

- (a) Remove the driver side junction block **INFO** .
- (b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block.

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



Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1D-11 - MB-19 (LSFL)	Always	Below 1 Ω

NG **REPLACE DRIVER SIDE JUNCTION BLOCK**

OK

5.	INSPECT FRONT DOOR LOCK ASSEMBLY RH
----	--

(a) Remove the front door lock assembly RH.

(b) Inspect the front door lock assembly RH.

OK:
Front door lock assembly RH is normal.

NG **REPLACE FRONT DOOR LOCK ASSEMBLY RH**

OK

6.	CHECK HARNESS AND CONNECTOR (FRONT DOOR LOCK ASSEMBLY RH - DRIVER SIDE JUNCTION BLOCK AND BODY GROUND)
----	---

(a) Disconnect the 1D driver side junction block connector.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D20-7 (LSSR) - 1D-24	Always	Below 1 Ω
D20-7 (LSSR) - Body ground	Always	10 k Ω or higher
D20-8 (E) - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

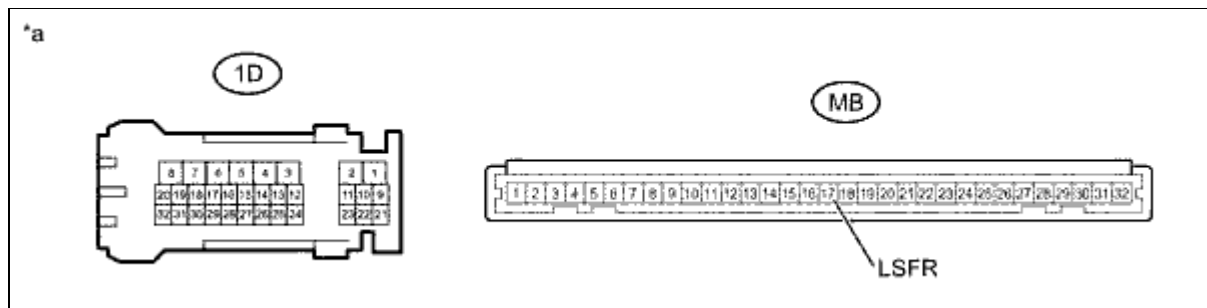


7. INSPECT DRIVER SIDE JUNCTION BLOCK

(a) Remove the driver side junction block .

(b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block.

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



Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1D-24 - MB-17 (LSFR)	Always	Below 1 Ω

NG  **REPLACE DRIVER SIDE JUNCTION BLOCK**

OK



8. INSPECT REAR DOOR LOCK ASSEMBLY LH

- (a) Remove the rear door lock assembly LH.
- (b) Inspect the rear door lock assembly LH.

OK:

Rear door lock assembly LH is normal.

NG REPLACE REAR DOOR LOCK ASSEMBLY LH

OK



9. CHECK HARNESS AND CONNECTOR (REAR DOOR LOCK ASSEMBLY LH - DRIVER SIDE JUNCTION BLOCK AND BODY GROUND)

- (a) Disconnect the 1H driver side junction block connector.
- (b) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D21-6 (LSSR) - 1H-27	Always	Below 1 Ω
D21-6 (LSSR) - Body ground	Always	10 k Ω or higher
D21-9 (E) - Body ground	Always	Below 1 Ω

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



10. INSPECT REAR DOOR LOCK ASSEMBLY RH

- (a) Remove the rear door lock assembly RH.
- (b) Inspect the rear door lock assembly RH.

OK:

Rear door lock assembly RH is normal.

NG  **REPLACE REAR DOOR LOCK ASSEMBLY RH**

OK



11.	CHECK HARNESS AND CONNECTOR (REAR DOOR LOCK ASSEMBLY RH - DRIVER SIDE JUNCTION BLOCK AND BODY GROUND)
------------	--

(a) Disconnect the 1A driver side junction block connector.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
D22-6 (LSSR) - 1A-41	Always	Below 1 Ω
D22-6 (LSSR) - Body ground	Always	10 k Ω or higher
D22-9 (E) - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

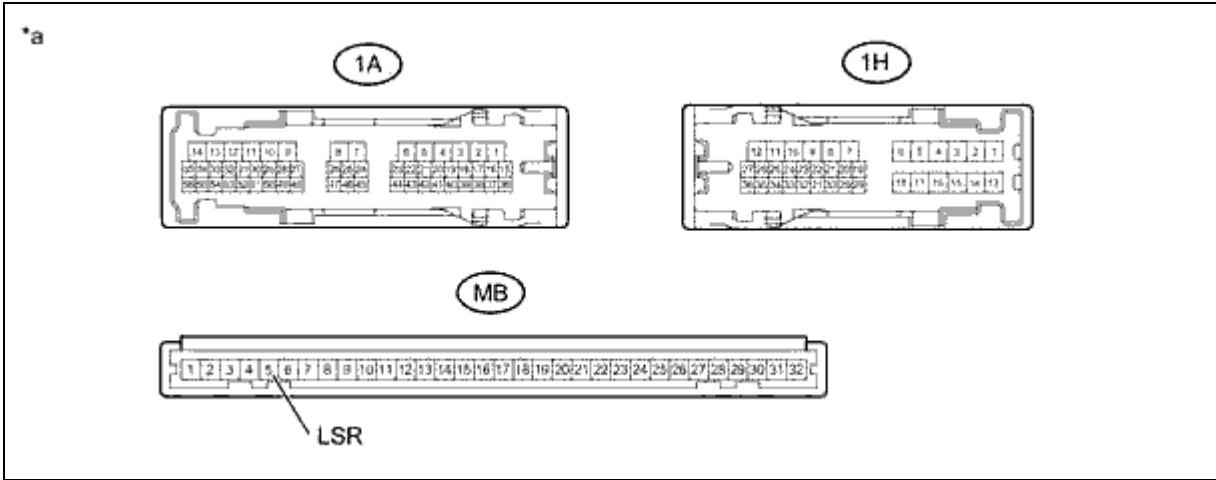


12.	INSPECT DRIVER SIDE JUNCTION BLOCK
------------	---

(a) Remove the driver side junction block  .

(b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block.

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



Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)	-	-
----	---	---	---

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1H-27 - MB-5 (LSR)	Always	Below 1 Ω
1A-41 - MB-5 (LSR)	Always	Below 1 Ω

NG ► REPLACE DRIVER SIDE JUNCTION BLOCK

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



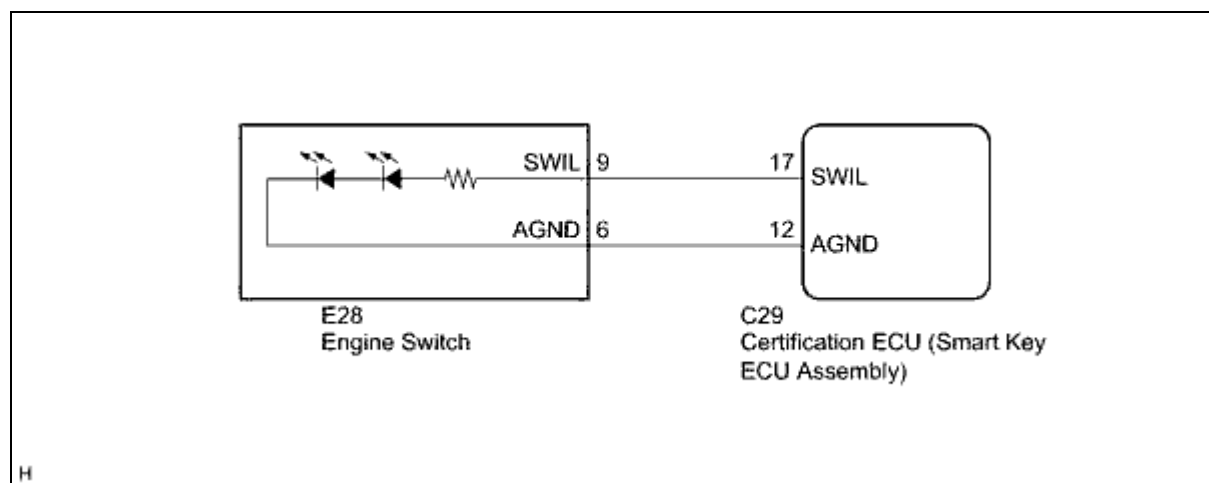
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000005VL5000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Engine Switch Illumination Circuit; 2016 MY Tacoma [08/2015 -]		

Engine Switch Illumination Circuit

DESCRIPTION

The illuminated entry system controls the engine switch illumination.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1.	READ VALUE USING TECHSTREAM (POWER/ENGINE SW LIGHT)
-----------	--

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

Smart Key

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Power/Engine SW Light	Engine switch illumination	OFF/ON	When performing this Active Test, make sure the following condition is met:

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
			The engine switch illumination is off (15 seconds or more have elapsed since it turned from on to off) and the engine switch is on (ACC) or on (IG), or the engine is running.

OK:

Engine switch illumination comes on.

NG ► **GO TO STEP 2**

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

2.	INSPECT ENGINE SWITCH
-----------	------------------------------

(a) Remove the engine switch.

- for 2TR-FE 
- for 2GR-FKS 

(b) Inspect the engine switch.

- for 2TR-FE 
- for 2GR-FKS 

OK:

Engine switch illumination is normal.

Result

RESULT	PROCEED TO
OK	A
NG (for 2TR-FE)	B
NG (for 2GR-FKS)	C

B ► **REPLACE ENGINE SWITCH**

C ► **REPLACE ENGINE SWITCH**

A



3.	CHECK HARNESS AND CONNECTOR (ENGINE SWITCH - CERTIFICATION ECU (SMART KEY ECU ASSEMBLY))
-----------	---

- (a) Disconnect the C29 certification ECU (smart key ECU assembly) connector.
- (b) Disconnect the E28 engine switch connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
E28-9 (SWIL) - C29-17 (SWIL)	Always	Below 1 Ω
E28-6 (AGND) - C29-12 (AGND)	Always	Below 1 Ω
E28-9 (SWIL) - Body ground	Always	10 k Ω or higher
E28-6 (AGND) - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK  **REPLACE CERTIFICATION ECU (SMART KEY ECU ASSEMBLY)**



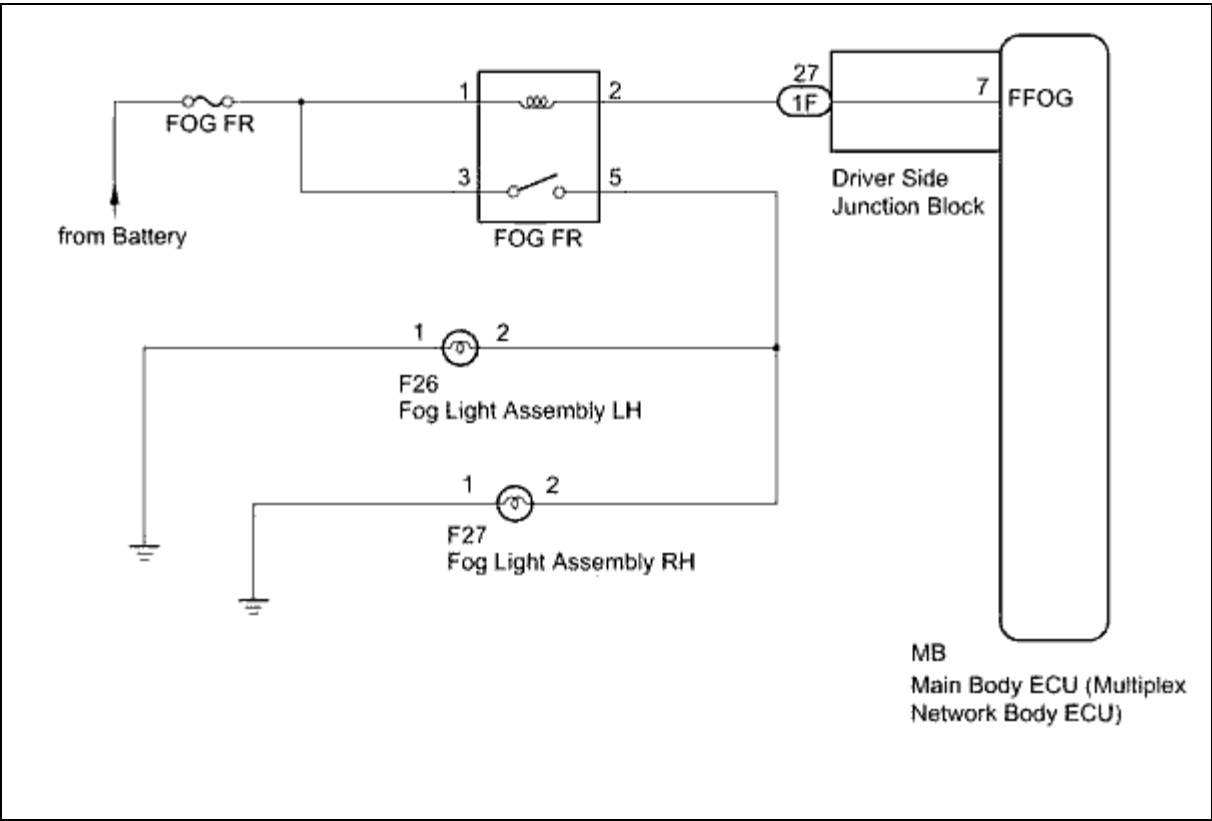
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000001A7L0BPX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Front Fog Light Circuit; 2016 MY Tacoma [08/2015 -]		

Front Fog Light Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) controls the front fog lights.

WIRING DIAGRAM



INSPECTION PROCEDURE

- NOTICE:**
- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1
- *1: w/ Smart Key System

PROCEDURE

1.	PERFORM ACTIVE TEST USING TECHSTREAM (FRONT FOG LIGHT RELAY)
----	---

(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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Front Fog Light Relay	Front Fog Light	ON/OFF	-

OK:

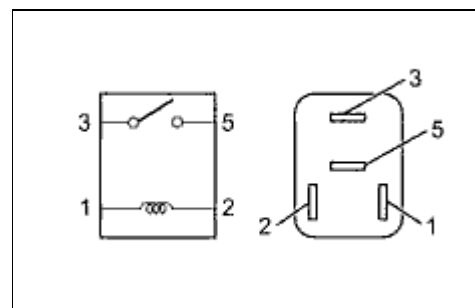
Front fog lights illuminate.

NG ► **GO TO STEP 2**

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

2.	INSPECT FOG FR RELAY
-----------	-----------------------------

- (a) Remove the FOG FR relay from the engine room relay block.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Battery voltage not applied to terminals 1 and 2	10 k Ω or higher
3 - 5	Battery voltage applied to terminals 1 and 2	Below 1 Ω

NG ► **REPLACE FOG FR RELAY**

OK
▼

3. CHECK HARNESS AND CONNECTOR (BATTERY - FOG FR RELAY)

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 1 - Body ground	Always	11 to 14 V
Relay terminal 3 - Body ground	Always	11 to 14 V

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

**4. CHECK HARNESS AND CONNECTOR (FOG FR RELAY - DRIVER SIDE JUNCTION BLOCK)**

(a) Disconnect the 1F driver side junction block connector.

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

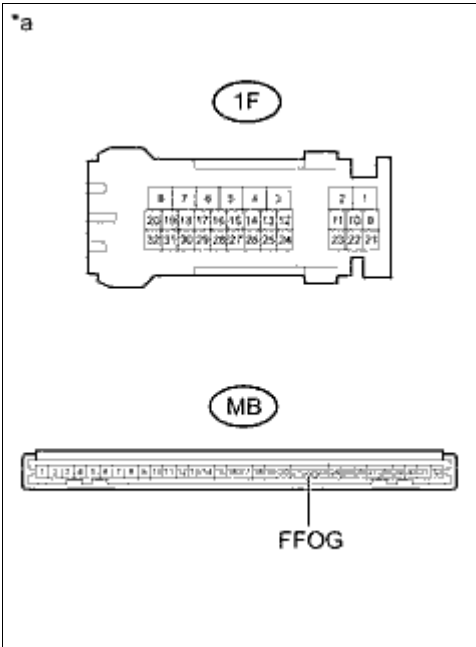
Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 2 - 1F-27	Always	Below 1 Ω
1F-27 - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

**5. INSPECT DRIVER SIDE JUNCTION BLOCK**



(a) Remove the driver side junction block.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1F-27 - MB-7 (FFOG)	Always	Below 1 Ω
1F-27 - Body ground	Always	10 kΩ or higher

Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)
----	---

NG ► REPLACE DRIVER SIDE JUNCTION BLOCK

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



Last Modified: 11-13-2015	6.6 D	Doc ID: RM000002WKL01XX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: HOW TO PROCEED WITH TROUBLESHOOTING; 2016 MY Tacoma [08/2015 -]		

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:

- Use these procedures to troubleshoot the lighting system.
- *: Use the Techstream.

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

NEXT



2.	INSPECT BATTERY VOLTAGE
-----------	--------------------------------

Standard voltage:

11 to 14 V

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

NEXT



3.	CHECK COMMUNICATION FUNCTION OF CAN COMMUNICATION SYSTEM*
-----------	--

(a) Use the Techstream to check if the CAN communication system is functioning normally.

Result

RESULT	PROCEED TO
CAN DTC is not output	A
CAN DTC is output	B

B **GO TO CAN COMMUNICATION SYSTEM**

A

4.	CHECK FOR DTC*
-----------	-----------------------

(a) Clear the DTC [INFO](#) .

(b) Recheck for DTC [INFO](#) .

Result

RESULT	PROCEED TO
DTC is not output	A
DTC is output	B

B **GO TO DIAGNOSTIC TROUBLE CODE CHART**

A

5.	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 7**

A

6.	OVERALL ANALYSIS AND TROUBLESHOOTING*
-----------	--

(a) Operation Check [INFO](#) .

(b) Terminals of ECU [INFO](#) .

(c) DATA LIST / ACTIVE TEST  .

NEXT



7.	ADJUST, REPAIR OR REPLACE
-----------	----------------------------------

NEXT



8.	CONFIRMATION TEST
-----------	--------------------------

NEXT  **END**



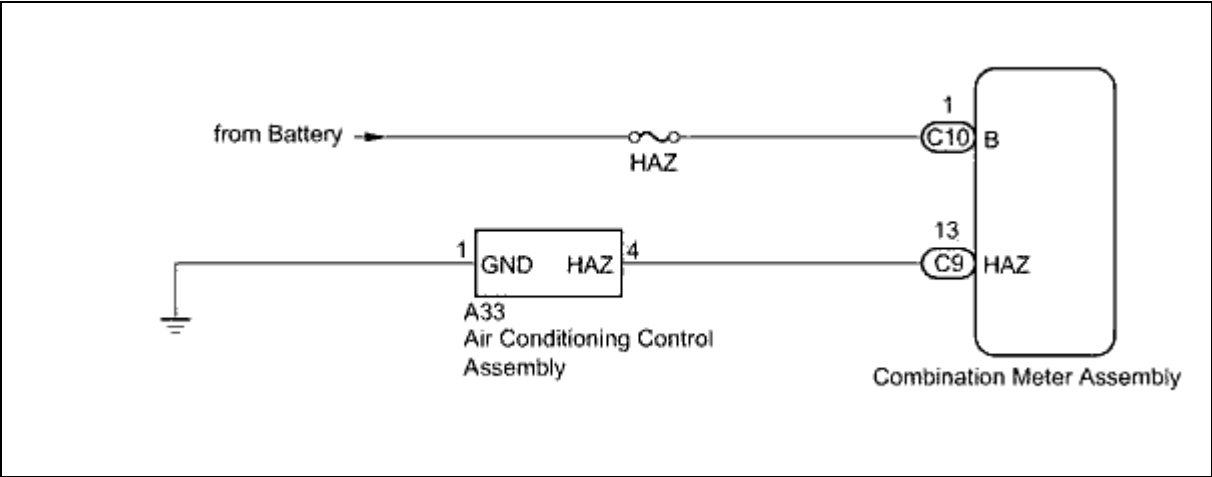
Last Modified: 11-13-2015	6.6 J	Doc ID: RM0000011M30D0X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Hazard Warning Switch Circuit; 2016 MY Tacoma [08/2015 -]		

Hazard Warning Switch Circuit

DESCRIPTION

The combination meter assembly receives information signals from the telltale light assembly (hazard warning signal switch).

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 (HAZARD FLASHER SWITCH)
-----------	--

- (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 / Combination Meter / Data List.
- (e) According to the display on the Techstream, read the Data List.

Combination Meter

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC
----------------	------------------------	------------------	------------

			NOTE
Hazard Flasher Switch	Hazard warning signal switch / OFF or ON	OFF: Hazard warning signal switch off ON: Hazard warning signal switch on	-

OK:

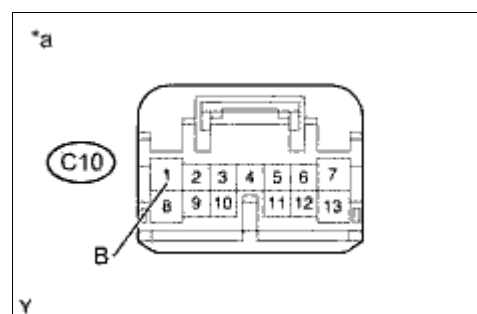
Normal conditions listed above are displayed.

NG ► **GO TO STEP 2**

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

2.	CHECK HARNESS AND CONNECTOR (COMBINATION METER ASSEMBLY - BATTERY)
-----------	---

(a) Disconnect the combination meter assembly connector.



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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C10-1 (B) - Body Ground	Always	11 to 14 V

Text in Illustration

*a	Front view of wire harness connector (to Combination Meter Assembly)
----	---

NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

3.	CHECK HARNESS AND CONNECTOR (AIR CONDITIONING CONTROL ASSEMBLY - COMBINATION METER ASSEMBLY)
-----------	---

- (a) Disconnect the A33 air conditioning control assembly connector.
- (b) Disconnect the C9 combination meter assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
A33-4 (HAZ) - C9-13 (HAZ)	Always	Below 1 Ω
A33-1 (GND) - Body Ground	Always	Below 1 Ω
A33-4 (HAZ) - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



4.	REPLACE AIR CONDITIONING CONTROL ASSEMBLY (HAZARD WARNING SIGNAL SWITCH)
-----------	---

- (a) Replace the air conditioning control assembly (hazard warning signal switch)  .

NEXT



5.	READ VALUE USING TECHSTREAM (HAZARD FLASHER SWITCH)
-----------	--

- (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 / Combination Meter / Data List.
- (e) According to the display on the Techstream, read the Data List.

Combination Meter

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Hazard Flasher Switch	Hazard warning signal switch / OFF or ON	OFF: Hazard warning signal switch off ON: Hazard warning signal switch on	-

OK:

Normal conditions listed above are displayed.

NG ► **REPLACE COMBINATION METER ASSEMBLY**

OK ► **END (AIR CONDITIONING CONTROL ASSEMBLY
(HAZARD WARNING SIGNAL SWITCH) WAS
DEFECTIVE)**



Last Modified: 11-13-2015	6.6 J	Doc ID: RM000005VL2000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Headlight Dimmer Switch Circuit; 2016 MY Tacoma [08/2015 -]		

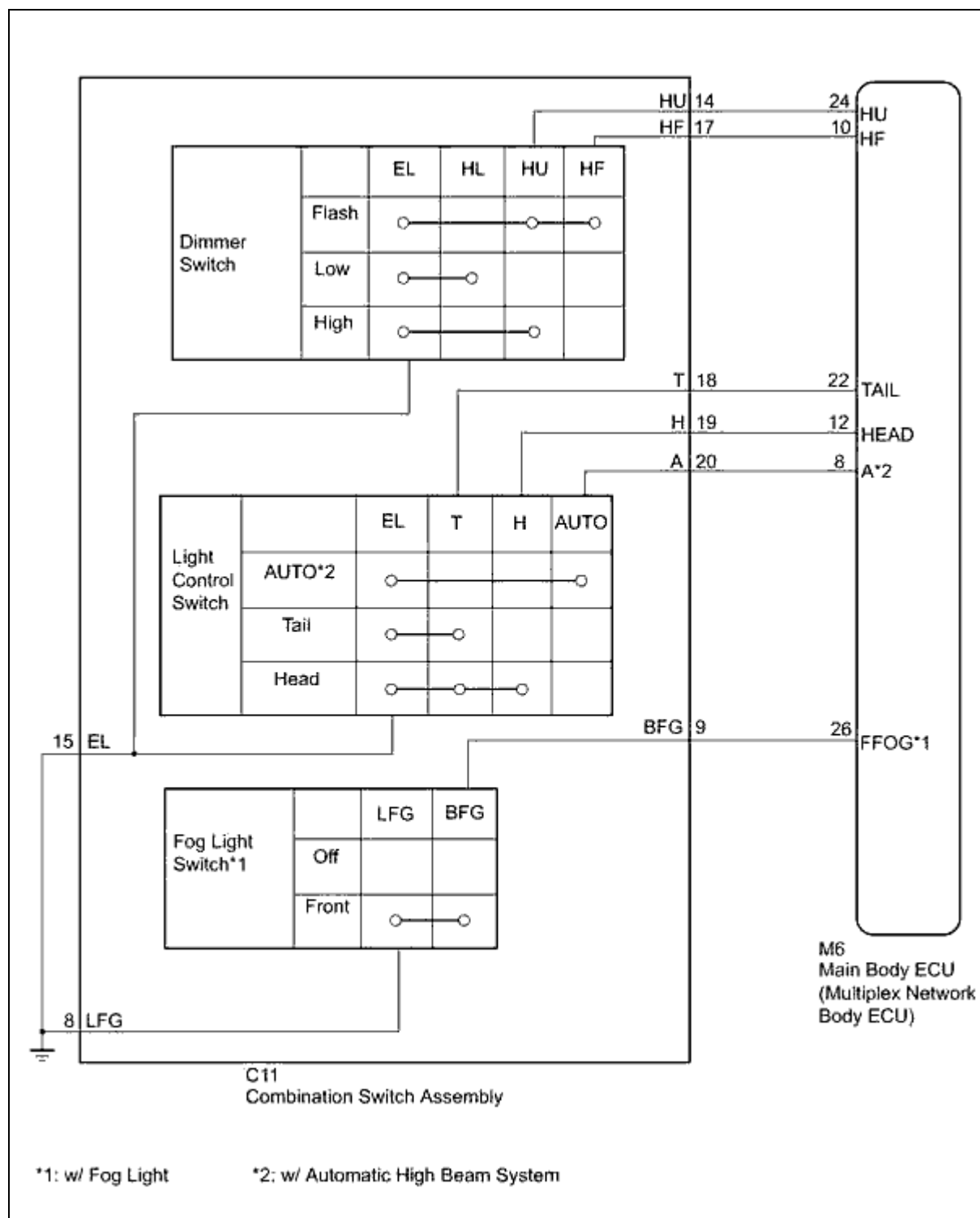
Headlight Dimmer Switch Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) receives the following switch information:

- Light control switch position is off (DRL OFF), tail, head or AUTO (DRL).
- Dimmer switch position is high, low or high flash (pass).
- Front fog light switch position is on or off.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1

*1: w/ Smart Key System

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) According to the display on the Techstream, read the Data List.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Dimmer SW	Dimmer switch high position signal/ON or OFF	ON: Dimmer switch in high or high flash (pass) position OFF: Dimmer switch in low position	-
Passing Light SW	Dimmer switch high flash (pass) position signal/ON or OFF	ON: Dimmer switch in high flash (pass) position OFF: Dimmer switch not in high flash (pass) position	-
Front Fog Light SW	Front fog light switch signal/ON or OFF	ON: Front fog light switch ON OFF: Front fog light switch off	w/ Fog Light
Auto Light SW	Light control switch AUTO position signal/ON or OFF	ON: Light control switch in AUTO position OFF: Light control switch not in AUTO position	w/ Automatic High Beam System
Head Light SW	Light control switch head position signal/ON or OFF	ON: Light control switch in head position OFF: Light control switch not in head position	-
Tail Light SW	Light control switch tail position signal/ON or OFF	ON: Light control switch in tail or head position OFF: Light control switch in neither tail nor head position	-

OK:

Normal conditions listed above are displayed.

NG  **GO TO STEP 2**

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

2. INSPECT HEADLIGHT DIMMER SWITCH ASSEMBLY

HINT:

Inspect the items that did not change as a result of monitoring the Data List.

(a) Remove the headlight dimmer switch assembly INFO .

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

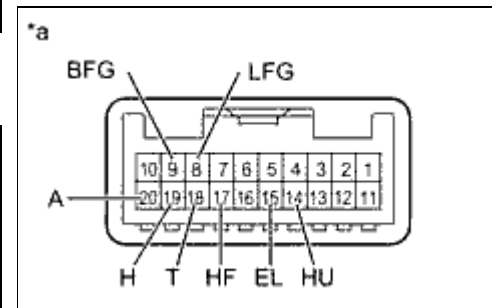
Standard Resistance:

Light Control Switch

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
18 (T) - 15 (EL)	Light control switch off	10 k Ω or higher
19 (H) - 15 (EL)		10 k Ω or higher
20 (A) - 15 (EL)		10 k Ω or higher
18 (T) - 15 (EL)	Light control switch in tail position	Below 1 Ω
18 (T) - 15 (EL)	Light control switch in head position	Below 1 Ω
19 (H) - 15 (EL)		Below 1 Ω
20 (A) - 15 (EL)*1	Light control switch in AUTO position	Below 1 Ω

Dimmer Switch

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
14 (HU) - 15 (EL)	Dimmer switch in low position	10 k Ω or higher
14 (HU) - 15 (EL)	Dimmer switch in high position	Below 1 Ω
17 (HF) - 15 (EL)	Dimmer switch in high flash position	Below 1 Ω

**Fog Light Switch (w/ Fog Light)**

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
9 (BFG) - 8 (LFG)	Fog light switch off	10 k Ω or higher
9 (BFG) - 8 (LFG)	Fog light switch ON	Below 1 Ω

*1: w/ Automatic High Beam System

OK:

Headlight dimmer switch assembly is normal

Text in Illustration

*a	Component without harness connected
----	-------------------------------------

NG  **REPLACE HEADLIGHT DIMMER SWITCH****OK****3.****CHECK HARNESS AND CONNECTOR (MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU) - HEADLIGHT DIMMER SWITCH ASSEMBLY**

- (a) Disconnect the C11 headlight dimmer switch assembly connector.
- (b) Disconnect the M6 main body ECU (multiplex network body ECU) connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C11-9 (BFG) - M6-26 (FFOG)	Always	Below 1 Ω
C11-14 (HU) - M6-24 (HU)	Always	Below 1 Ω
C11-17 (HF) - M6-10 (HF)	Always	Below 1 Ω
C11-18 (T) - M6-22 (TAIL)	Always	Below 1 Ω
C11-19 (H) - M6-12 (HEAD)	Always	Below 1 Ω
C11-20 (A) - M6-8 (A)	Always	Below 1 Ω
C11-9 (BFG) - Body ground	Always	10 k Ω or higher
C11-14 (HU) - Body ground	Always	10 k Ω or higher
C11-17 (HF) - Body ground	Always	10 k Ω or higher
C11-18 (T) - Body ground	Always	10 k Ω or higher
C11-19 (H) - Body ground	Always	10 k Ω or higher
C11-20 (A) - Body ground	Always	10 k Ω or higher
C11-15 (EL) - Body ground	Always	Below 1 Ω
C11-8 (LFG) - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR****OK**  **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

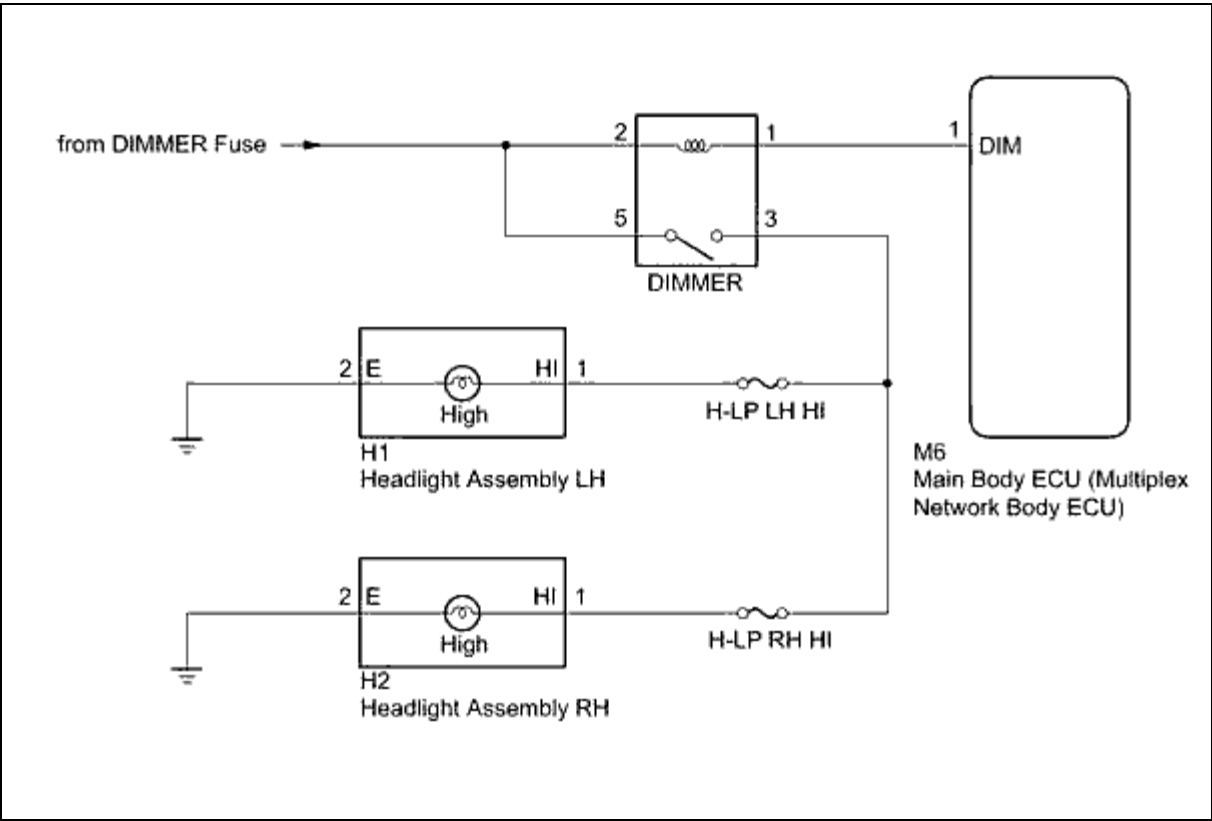
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000001A7L0BRX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: High Beam Headlight Circuit; 2016 MY Tacoma [08/2015 -]		

High Beam Headlight Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) controls the high beam headlights.

WIRING DIAGRAM



INSPECTION PROCEDURE

- NOTICE:**
- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1
- *1: w/ Smart Key System

PROCEDURE

1.	PERFORM ACTIVE TEST USING TECHSTREAM (HEAD LIGHT Hi)
----	---

(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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Head Light Hi	High beam headlights	ON/OFF	-

OK:

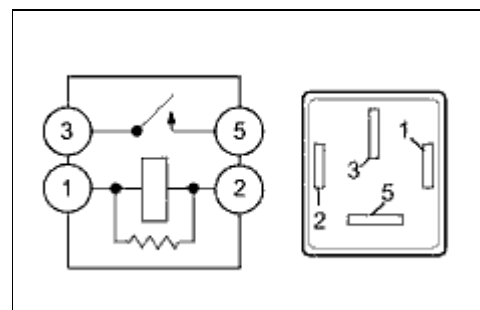
High beam headlights illuminate.

NG ► **GO TO STEP 2**

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

2.	INSPECT DIMMER RELAY
-----------	-----------------------------

- (a) Remove the headlight dimmer relay from the engine room relay block.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Voltage is not applied between terminals 1 and 2	10 k Ω or higher
3 - 5	Voltage is applied between terminals 1 and 2	Below 1 Ω

NG ► **REPLACE DIMMER RELAY**

OK
▼

3. CHECK HARNESS AND CONNECTOR (BATTERY - DIMMER RELAY)

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 2 - Body ground	Always	11 to 14 V
Relay terminal 5 - Body ground	Always	11 to 14 V

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



4. CHECK HARNESS AND CONNECTOR (DIMMER RELAY - MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU))

(a) Disconnect the M6 main body ECU (multiplex network body ECU) connector.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 1 - M6-1 (DIM)	Always	Below 1 Ω
M6-1 (DIM) - Body ground	Always	10 k Ω or higher

NG  REPAIR OR REPLACE HARNESS OR CONNECTOR

OK  REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



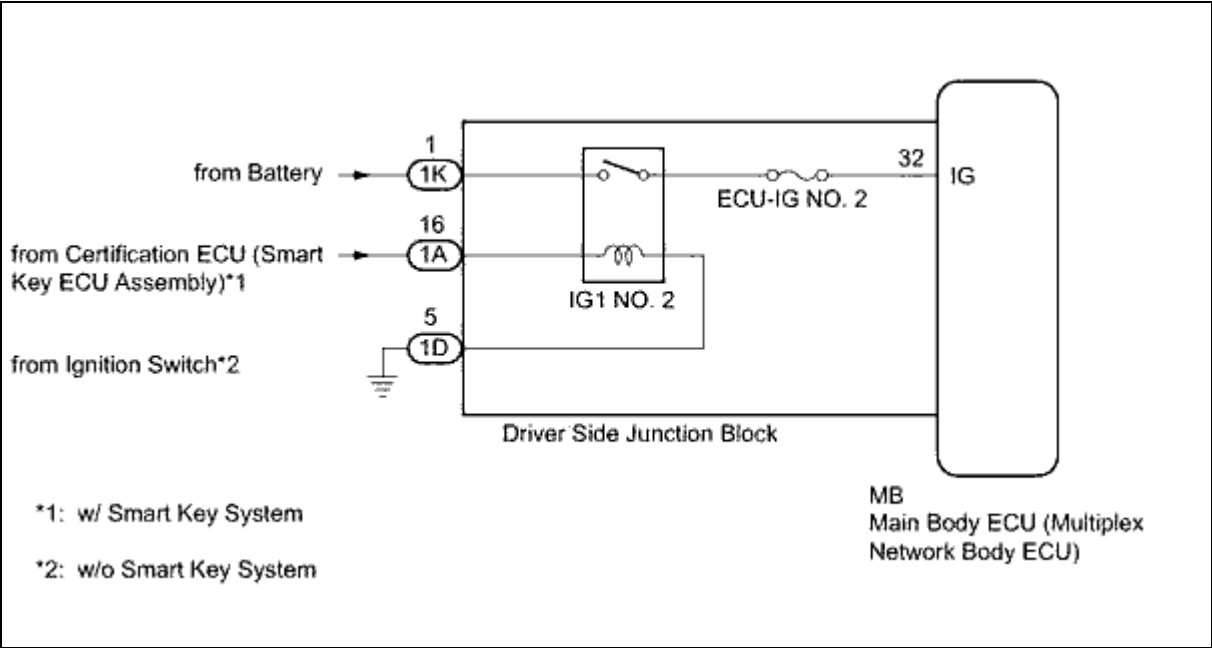
Last Modified: 11-13-2015	6.6 J	Doc ID: RM0000011SQ0MXX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: IG Signal Circuit; 2016 MY Tacoma [08/2015 -]		

IG Signal Circuit

DESCRIPTION

This circuit detects whether the ignition switch is ON or off, and sends this information to the main body ECU (multiplex network body ECU).

WIRING DIAGRAM



INSPECTION PROCEDURE

- NOTICE:**
- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1
- *1: w/ Smart Key System

PROCEDURE

1.	READ VALUE USING TECHSTREAM (IG SW)
-----------	--

- (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) According to the display on the Techstream, read the Data List.

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	"OFF" is also displayed for this item when the ignition switch is ACC.

OK:

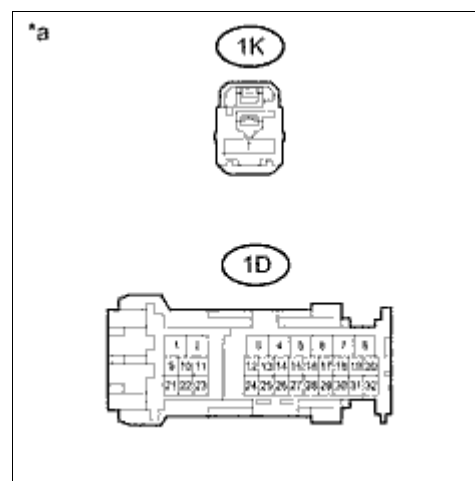
The display is as specified in the normal condition column.

NG ► **GO TO STEP 2**

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

2.	CHECK HARNESS AND CONNECTOR (DRIVER SIDE JUNCTION BLOCK - BATTERY AND BODY GROUND)
----	---

(a) Disconnect the driver side junction block connectors.



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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1K-1 - Body ground	Always	11 to 14 V

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
-------------------	-----------	---------------------

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1D-5 - Body ground	Always	Below 1 Ω

Text in Illustration

*a	Front view of wire harness connector (to Driver Side Junction Block)
----	---

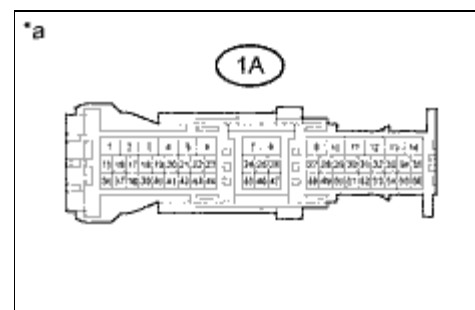
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



3.	CHECK HARNESS AND CONNECTOR (IG POWER SOURCE CIRCUIT)
-----------	--

(a) Disconnect the driver side junction block connector.



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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1A-16 - Body ground	Ignition switch ON	11 to 14 V

Text in Illustration

*a	Front view of wire harness connector (to Driver Side Junction Block)
----	---

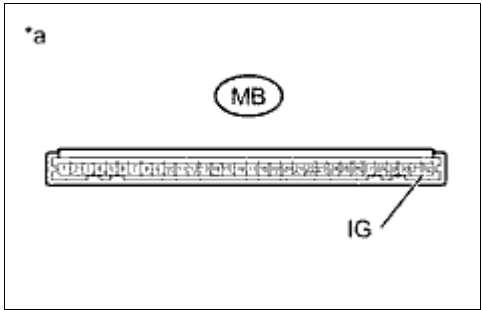
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



4.	CHECK DRIVER SIDE JUNCTION BLOCK
----	----------------------------------

(a) Remove the driver side junction block INFO .



(b) Reconnect the 1K, 1A and 1D driver side junction block connectors.

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

Standard Voltage:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
MB-32 (IG) - Body ground	Ignition switch ON	11 to 14 V

Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)
----	---

NG ▶ REPLACE DRIVER SIDE JUNCTION BLOCK

OK ▶ REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



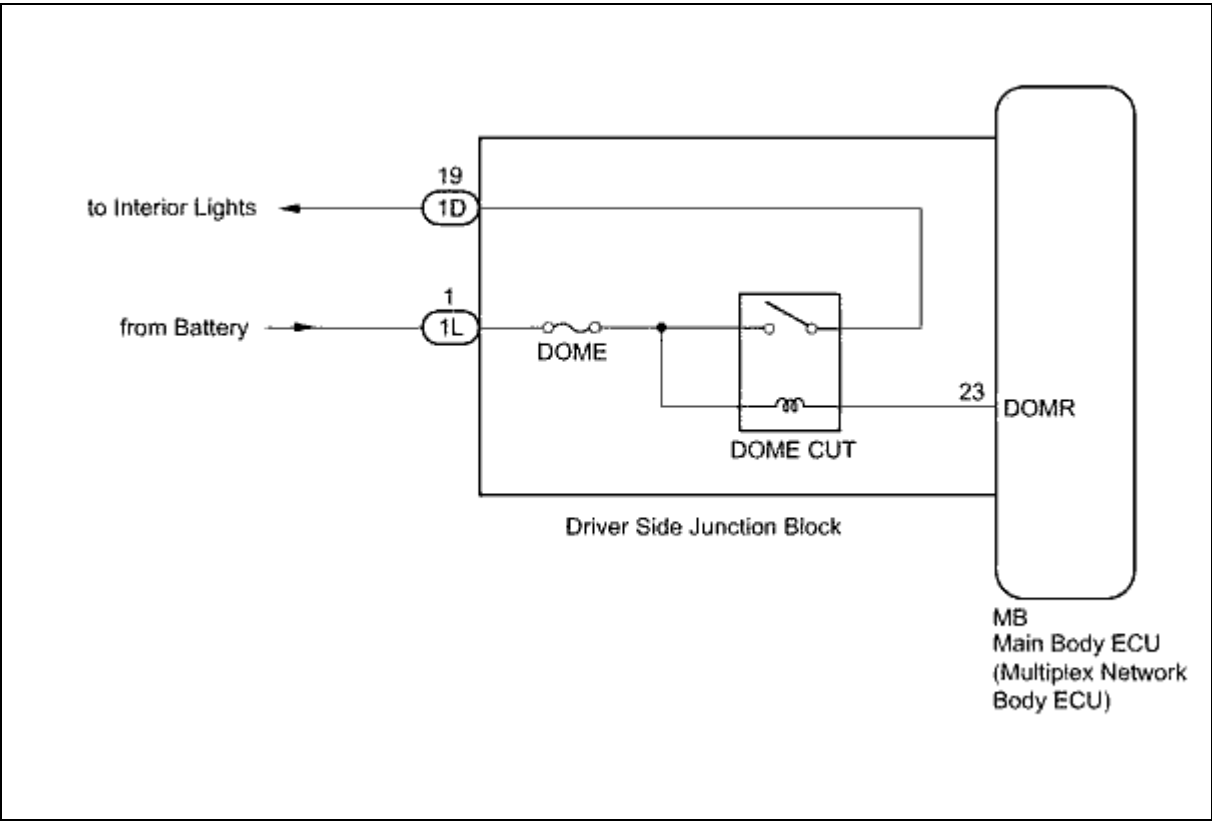
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000005VL6000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Interior Light Auto Cut Circuit; 2016 MY Tacoma [08/2015 -]		

Interior Light Auto Cut Circuit

DESCRIPTION

When the battery saving control operates, the main body ECU (multiplex network body ECU) controls the operation of the DOME CUT relay, that is built in to the driver side junction block, to turn off the interior lights.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
- If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1
*1: w/ Smart Key System

PROCEDURE

1.	PERFORM ACTIVE TEST USING TECHSTREAM (RELAY FOR INTERIOR LIGHT AUTO CUT FUNCTION)
----	--

- (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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Relay for Interior Light Auto Cut Function	DOME CUT relay	ON/OFF	• ON: DOME CUT relay off (interior lights turn off) • OFF: DOME CUT relay on (interior lights turn on)

OK:
DOME CUT relay operates.

NG ► **GO TO STEP 2**

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

2.	CHECK HARNESS AND CONNECTOR (DOME FUSE - DRIVER SIDE JUNCTION BLOCK)
-----------	---

- (a) Disconnect the 1L driver side junction block connector.
- (b) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1L-1 - Body ground	Always	11 to 14 V

NG ► **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK



3.	REPLACE DRIVER SIDE JUNCTION BLOCK
-----------	---

- (a) Replace the driver side junction block  .

NEXT



4.	PERFORM ACTIVE TEST USING TECHSTREAM (RELAY FOR INTERIOR LIGHT AUTO CUT FUNCTION)
----	--

- (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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Relay for Interior Light Auto Cut Function	DOME CUT relay	ON/OFF	• ON: DOME CUT relay off (interior lights turn off) • OFF: DOME CUT relay on (interior lights turn on)

OK:
DOME CUT relay operates.

NG ► **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**

OK ► **END (DRIVER SIDE JUNCTION BLOCK WAS DEFECTIVE)**



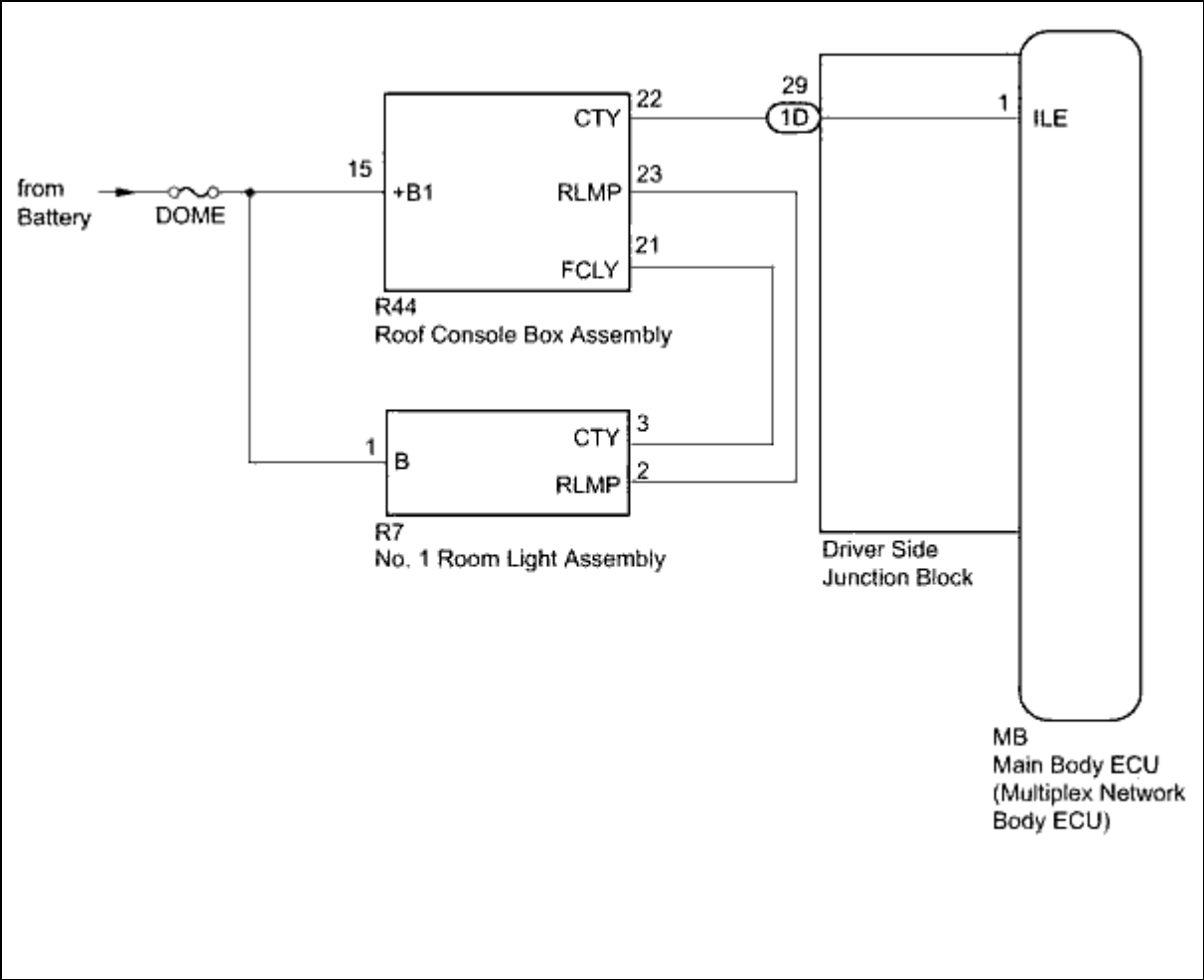
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000001T9V08RX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Interior Light Circuit; 2016 MY Tacoma [08/2015 -]		

Interior Light Circuit

DESCRIPTION

The illuminated entry system controls the interior lights.

WIRING DIAGRAM



INSPECTION PROCEDURE

- NOTICE:**
- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1
- *1: w/ Smart Key System

PROCEDURE

1. PERFORM ACTIVE TEST USING TECHSTREAM (ILLUMINATED ENTRY SYSTEM)

- (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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Illuminated Entry System	Interior lights	ON/OFF	Interior light door switch on and all doors closed

OK:

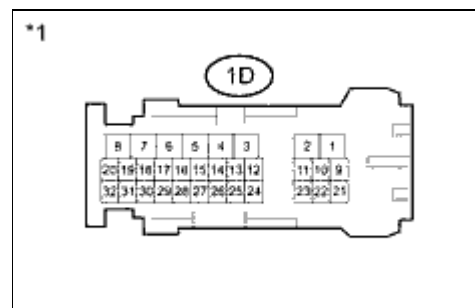
Each light fades in.

NG ► GO TO STEP 2

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

2. CHECK HARNESS AND CONNECTOR (BATTERY - DRIVER SIDE JUNCTION BLOCK)

- (a) Disconnect the driver side junction block connector.



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

Standard Voltage:

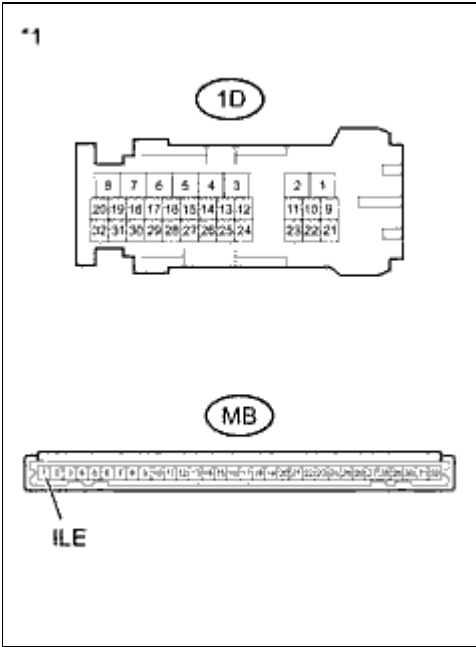
TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1D-29 - Body ground	Interior light switch in DOOR position	11 to 14 V

Text in Illustration

*1	Front view of wire harness connector (to Driver Side Junction Block)
----	---

OK

3. INSPECT DRIVER SIDE JUNCTION BLOCK



(a) Remove the driver side junction block.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1D-29 - MB-1 (ILE)	Always	Below 1 Ω
MB-1 (ILE) - Body ground	Always	10 kΩ or higher

Text in Illustration

*1	Component without harness connected (Driver Side Junction Block)
----	---

NG REPLACE DRIVER SIDE JUNCTION BLOCK

OK REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



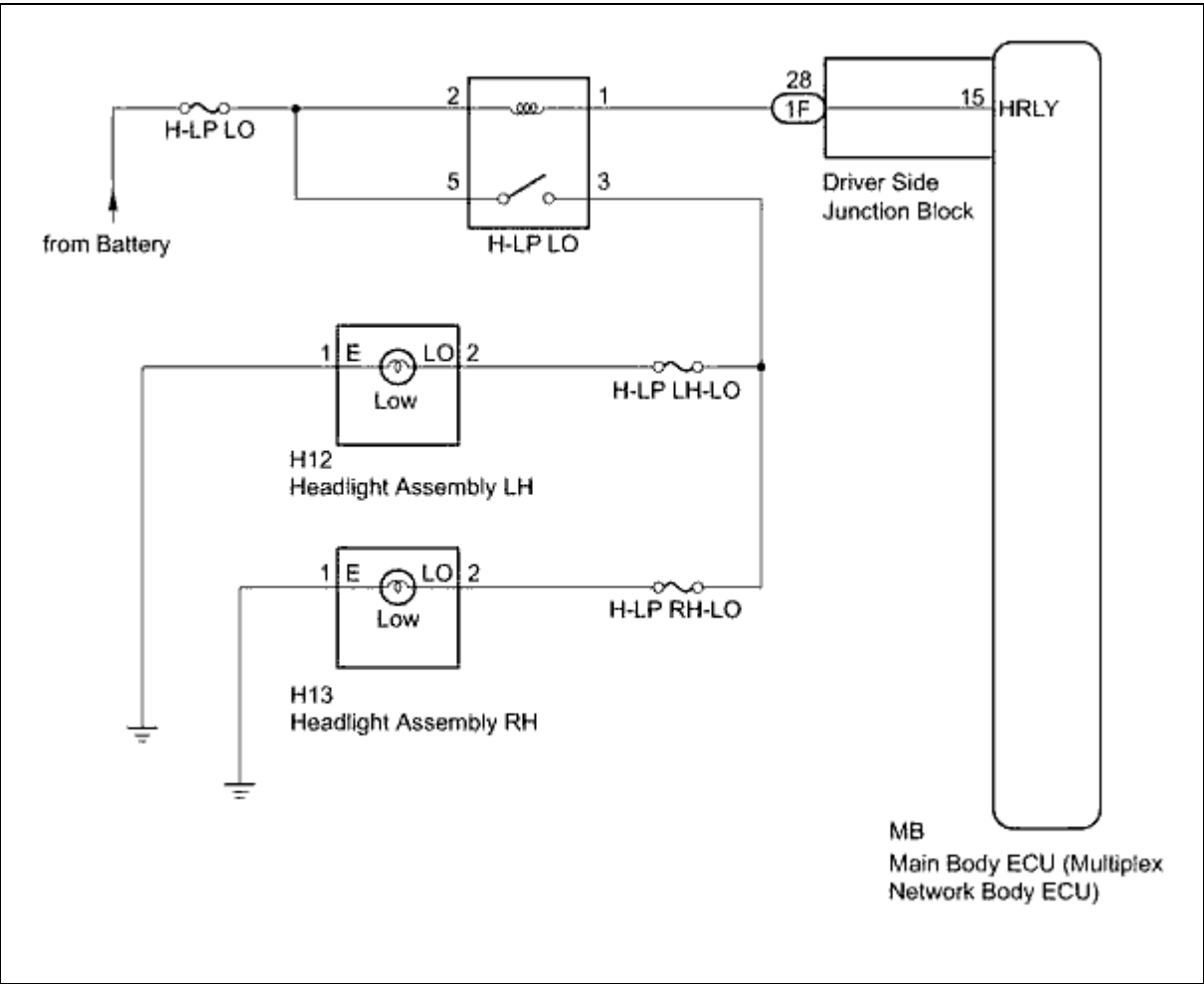
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000001A7L0BQX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Low Beam Headlight Circuit; 2016 MY Tacoma [08/2015 -]		

Low Beam Headlight Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) controls the low beam headlights.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1
- *1: w/ Smart Key System

PROCEDURE

1. PERFORM ACTIVE TEST USING TECHSTREAM (HEADLIGHT RELAY)

- (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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Headlight Relay	Headlight relays	ON/OFF	-

OK:

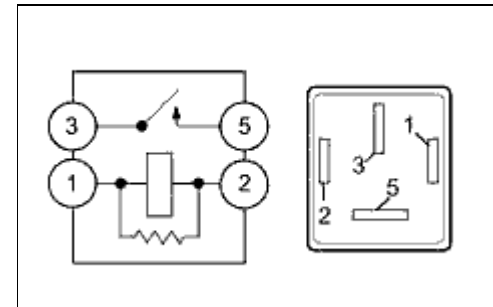
Headlight relays operate. (Low beam headlights illuminate.)

NG ► GO TO STEP 2

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

2. INSPECT H-LP LO RELAY

- (a) Remove the H-LP LO relay from the engine room relay block.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
3 - 5	Voltage is not applied between terminals 1 and 2	10 k Ω or higher
3 - 5	Voltage is applied between terminals 1 and 2	Below 1 Ω

NG ► REPLACE H-LP LO RELAY

OK



3. CHECK HARNESS AND CONNECTOR (BATTERY - H-LP LO RELAY)

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 2 - Body ground	Always	11 to 14 V
Relay terminal 5 - Body ground	Always	11 to 14 V

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



4. CHECK HARNESS AND CONNECTOR (H-LP LO RELAY - DRIVER SIDE JUNCTION BLOCK)

(a) Disconnect the 1F driver side junction block connector.

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

Standard Resistance:

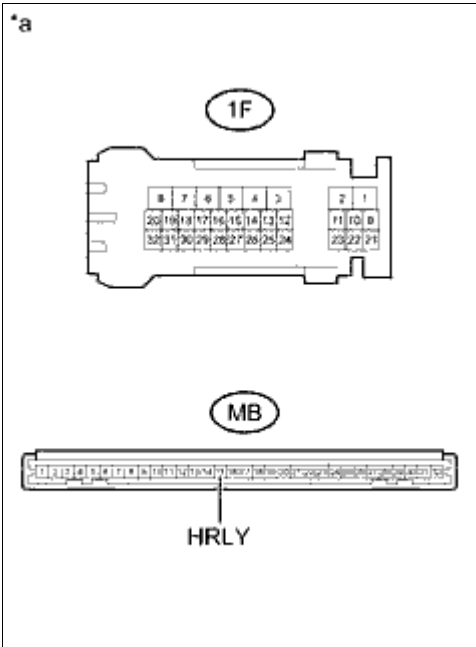
TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
Relay terminal 1 - 1F-28	Always	Below 1 Ω
1F-28 - Body ground	Always	10 k Ω or higher

NG REPAIR OR REPLACE HARNESS OR CONNECTOR

OK



5. INSPECT DRIVER SIDE JUNCTION BLOCK



(a) Remove the driver side junction block.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1F-28 - MB-15 (HRLY)	Always	Below 1 Ω
1F-28 - Body ground	Always	10 kΩ or higher

Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)
----	---

NG ➡ **REPLACE DRIVER SIDE JUNCTION BLOCK**

OK ➡ **REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)**



Last Modified: 11-13-2015	6.6 D	Doc ID: RM000005VL4000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: OPERATION CHECK; 2016 MY Tacoma [08/2015 -]		

OPERATION CHECK

1. INSPECT INTERIOR LIGHT CONTROL OPERATION

NOTICE:

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

The interior light control illuminates the lights below.

- Engine Switch Illumination*1
- Transponder Key Coil (Ignition Key Cylinder Light)*2
- Roof Console Box Assembly (Map Light)
- No. 1 Room Light Assembly
 - *1: w/ Smart Key System
 - *2: w/o Smart Key System

(a) The operations 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 interior lights illuminate for 15 seconds, and then fade out: • The key enters any actuation area around the doors when the ignition switch is off and all doors are closed.*1, *2 • Any door is unlocked when the ignition switch is off with all doors closed and locked. • The ignition switch is turned from ON or ACC to off when all doors are closed. • All doors are closed after any door is opened when the ignition switch is off.
Fade out immediately	When any of the following conditions is met, the interior 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.

*1: When the lights are on, if the key leaves all of the actuation areas around the doors, after approximately 3 seconds, the lights fade out.

*2: w/ Smart Key System

2. INSPECT BATTERY SAVING CONTROL OPERATION

NOTICE:

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

The lights controlled by the battery saving control are as follows:

- Engine Switch Illumination*1
- Transponder Key Coil (Ignition Key Cylinder Light)*2
- Deck Light Switch Assembly
- Roof Console Box Assembly (Map Light)
- No. 1 Room Light Assembly
- Visor Assembly LH and RH (Vanity Light LH and RH)

*1: w/ Smart Key System

*2: w/o Smart Key System

(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 ON or ACC 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 the 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 ON or ACC. • Any door is opened and closed. • Any door is unlocked. • The key enters any exterior actuation area.*

*: w/ Smart Key System

3. AUTOMATIC LIGHT CONTROL SYSTEM OPERATION CHECK

- (a) Turn the ignition switch to ON.
- (b) Turn the light control switch to the AUTO position.
- (c) Cover the automatic light control sensor.
- (d) Check that the taillights and low beam headlights come on.
- (e) Uncover the automatic light control sensor.
- (f) Check that the low beam headlights and taillights go off.

4. LIGHT AUTO TURN-OFF SYSTEM OPERATION CHECK

- (a) When the taillights are on (headlights are not on)
 - (1) Close all of the doors.
 - (2) Turn the ignition switch to ON.
 - (3) Turn the taillights on.
 - (4) Turn the ignition switch off.
 - (5) Open the driver door.
 - (6) Check that all of the lights turn off immediately.
- (b) When the headlights are on

- (1) Close all of the doors.
- (2) Turn the ignition switch to ON.
- (3) Turn the headlights on.
- (4) Turn the ignition switch off.
- (5) Open any of the doors.
- (6) Close the door.
- (7) Check that all of the lights turn off after 30 seconds (delay function).

HINT:

Before the lights turn off, if the lock button on the key is pushed after all of the doors are locked, all of the lights will turn off immediately.

5. DAYTIME RUNNING LIGHT SYSTEM OPERATION CHECK

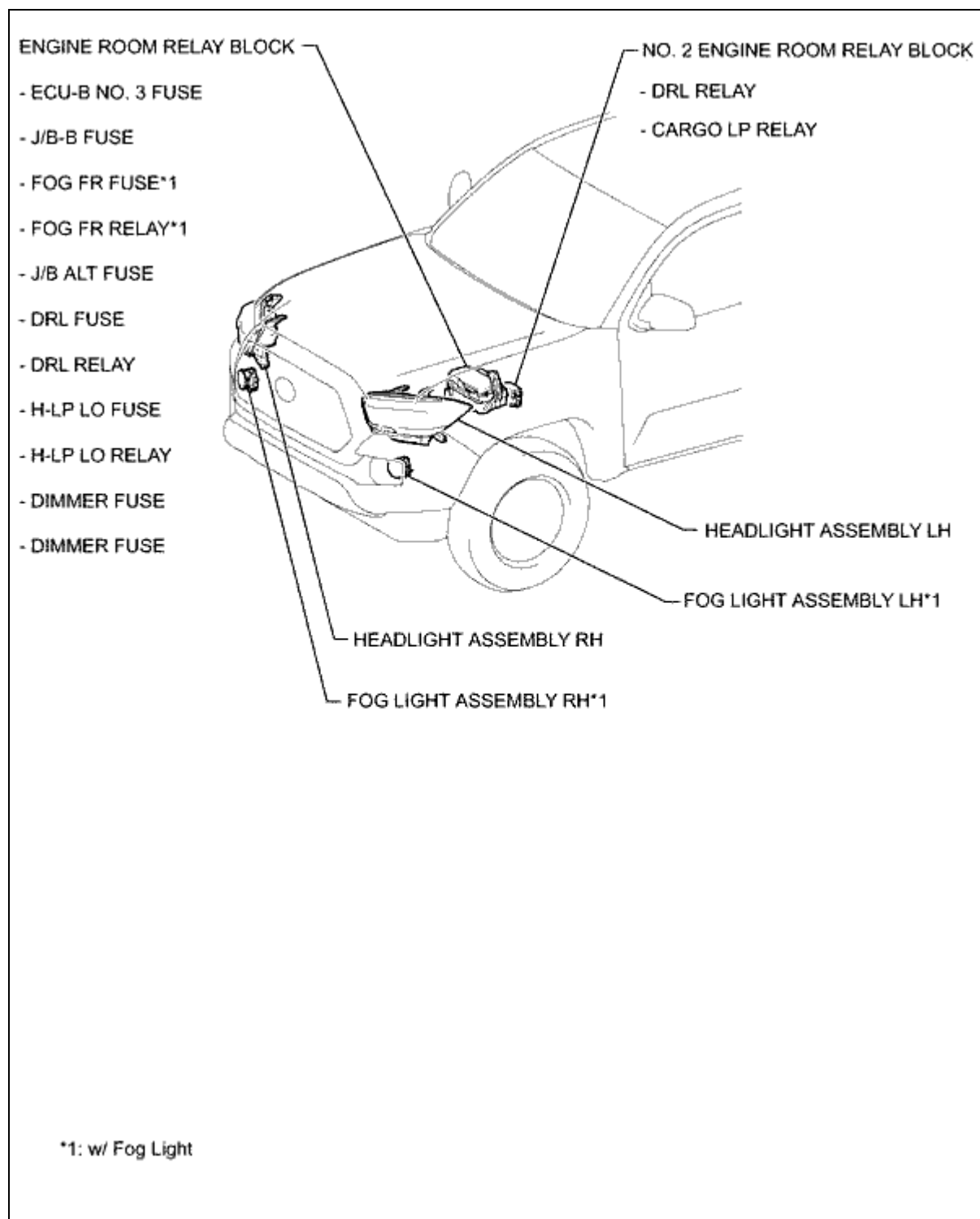
- (a) Turn the light control switch to the tail or AUTO position (and the low beam headlights are not turned on via the automatic light control system).
- (b) Start the engine.
- (c) Release the parking brake.
- (d) Check that the daytime running lights come on.



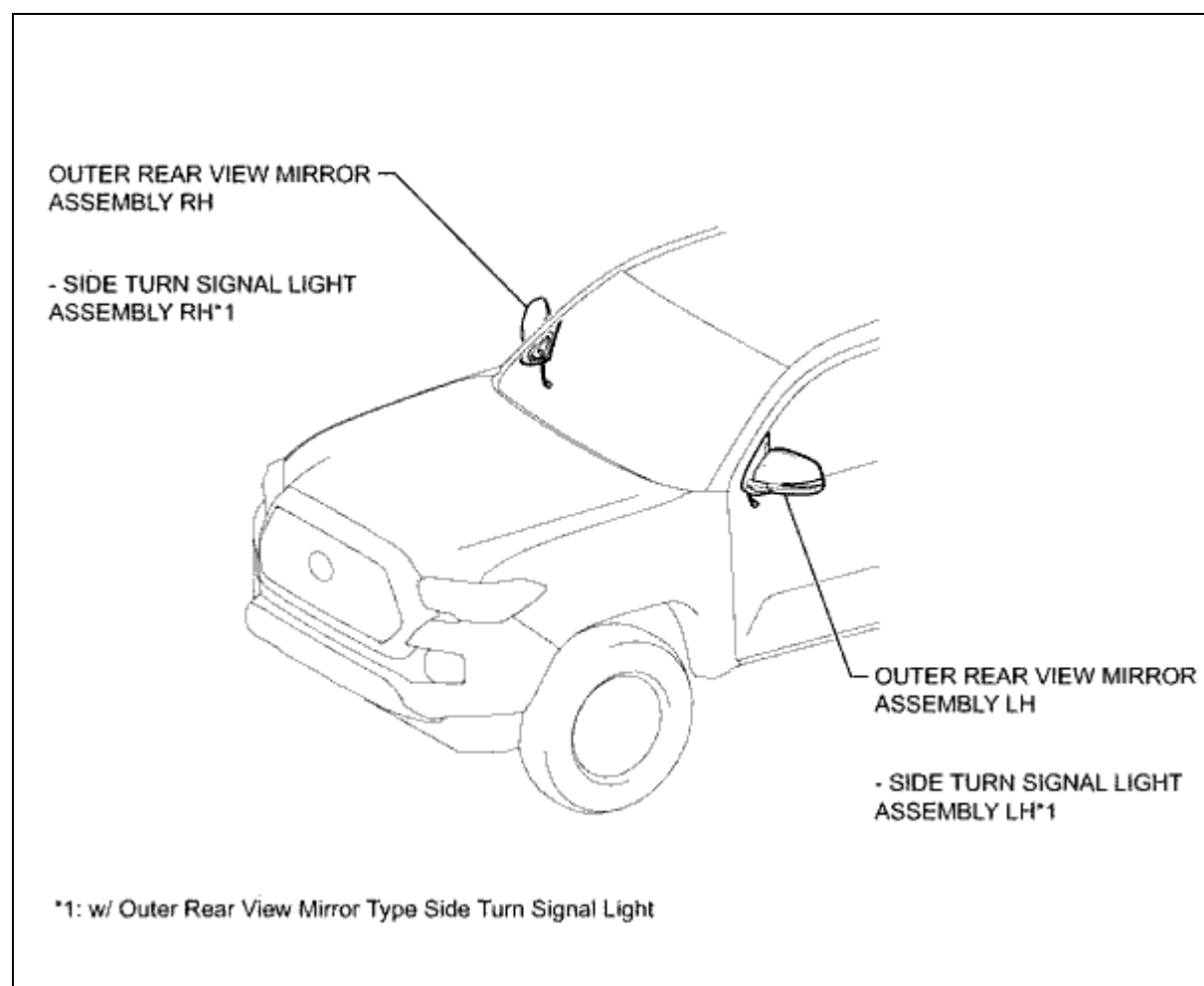
Last Modified: 11-13-2015	6.6 R	Doc ID: RM000002WKM03GX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: PARTS LOCATION; 2016 MY Tacoma [08/2015 -]		

PARTS LOCATION

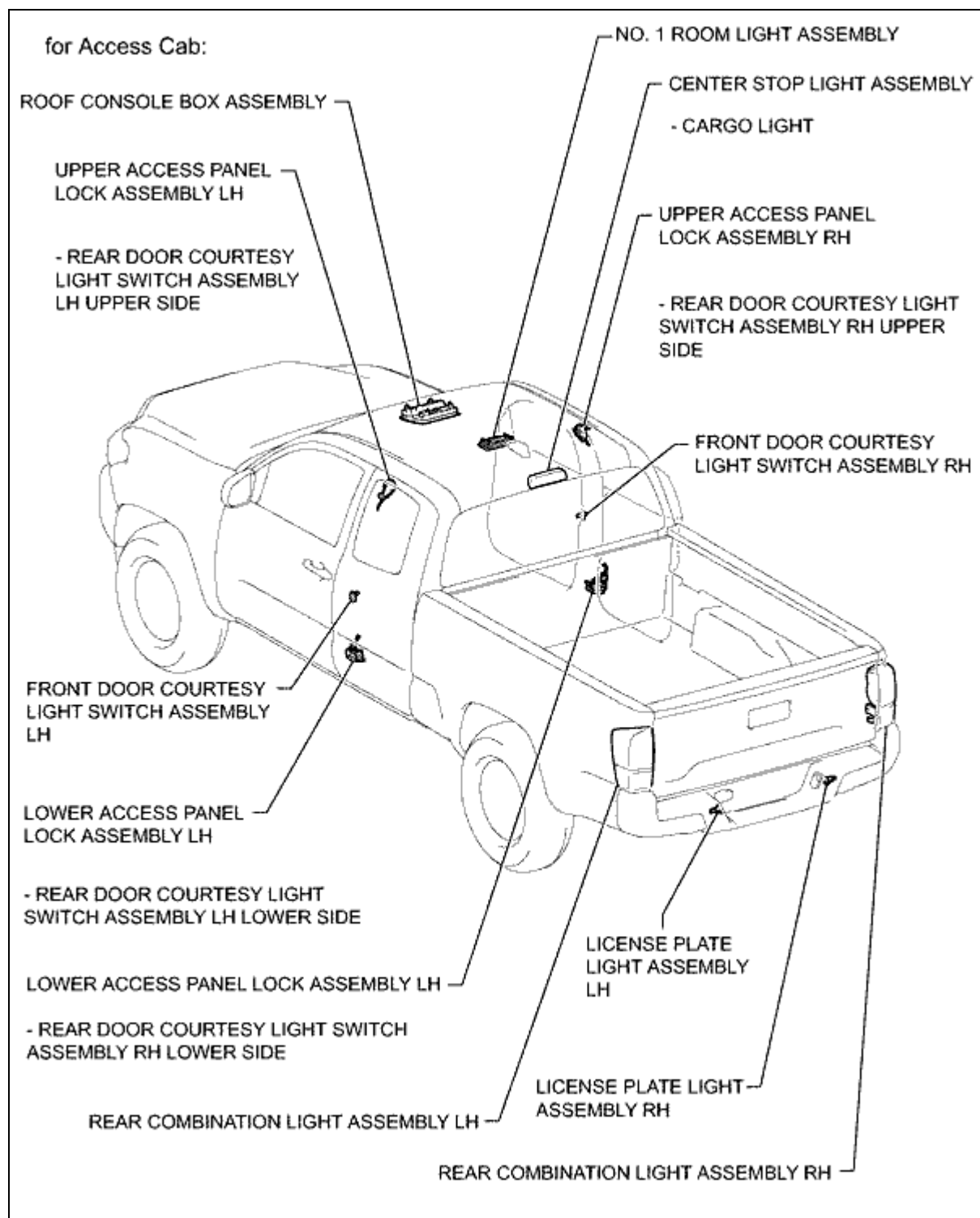
ILLUSTRATION



ILLUSTRATION

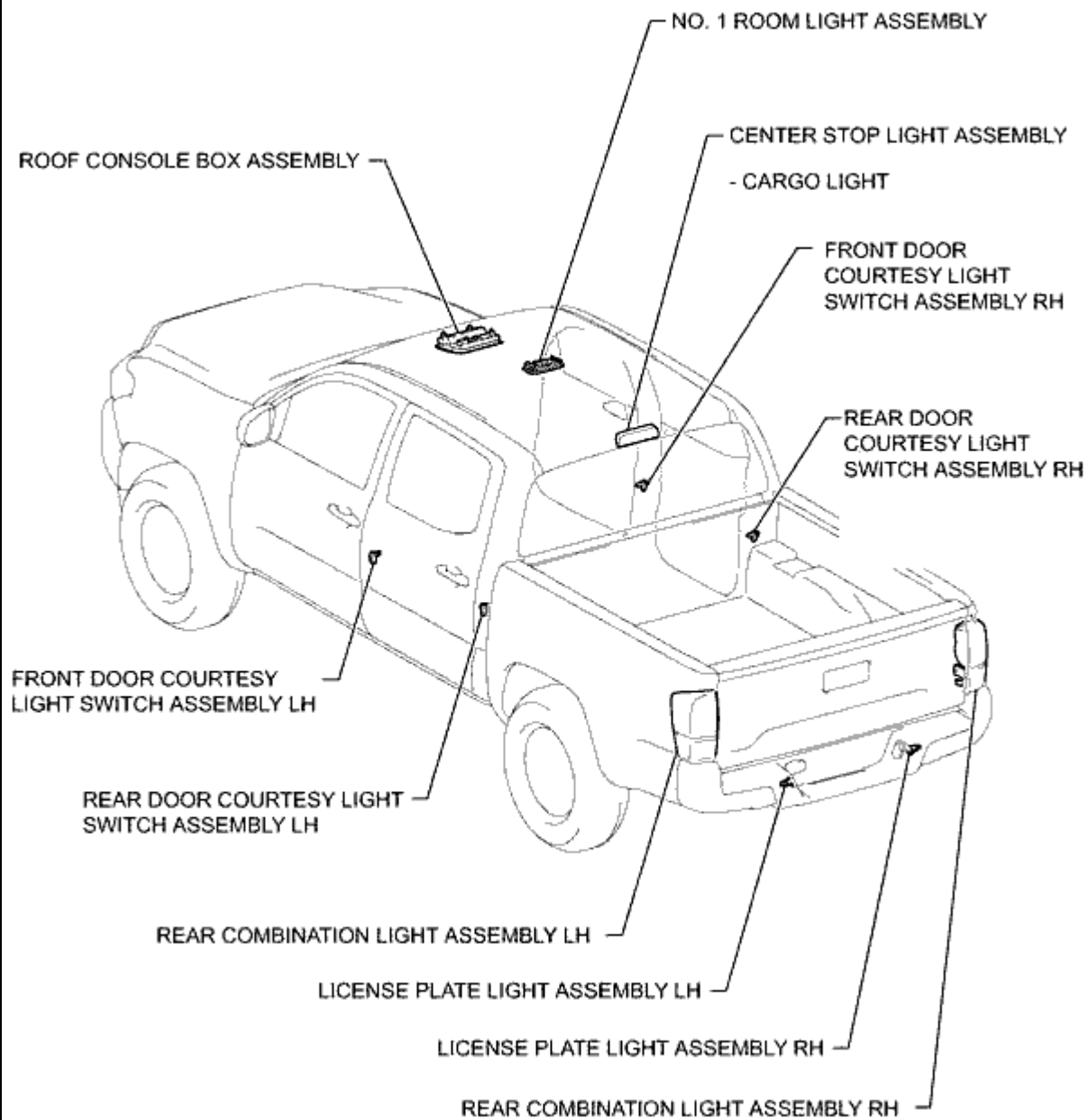


ILLUSTRATION

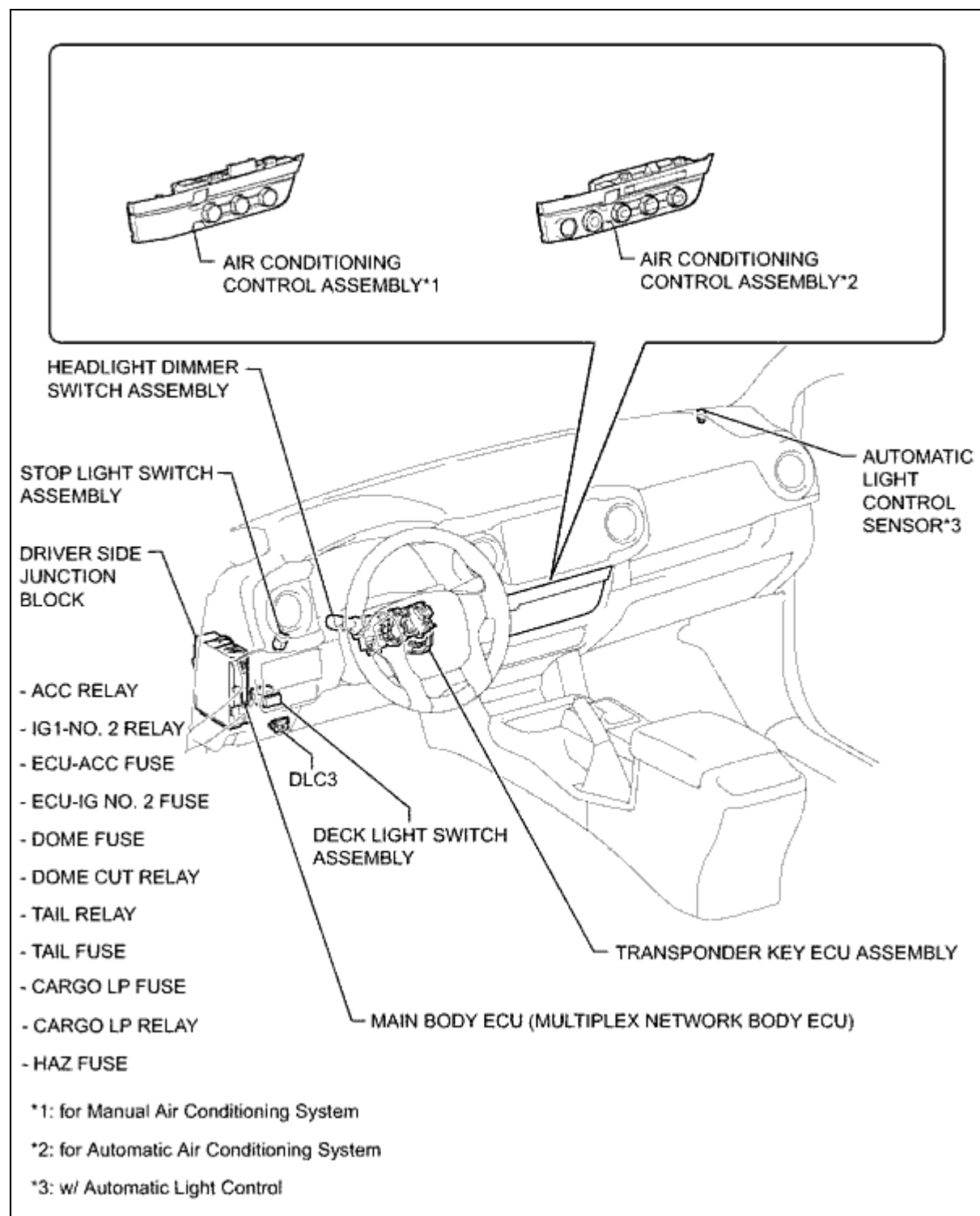


ILLUSTRATION

for Double Cab:



ILLUSTRATION



Last Modified: 11-13-2015	6.6 L	Doc ID: RM000005VN3000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: PRECAUTION; 2016 MY Tacoma [08/2015 -]		

PRECAUTION

1. PRECAUTION FOR HEADLIGHT BULB REPLACEMENT

- (a) When any defects such as deformation, cracks, dents, chipping, etc. are identified on the headlight, replace it with a new one.
- (b) Even if the operation seems to be normal, the fail-safe function may be defective.
- (c) Since halogen bulbs (for headlight or front fog light) have pressurized gas inside and can easily be broken if scratched or dropped, special care should be taken. When handling the bulb, hold the plastic or metal part and do not touch the glass part with bare hands.

2. EXPRESSIONS OF IGNITION SWITCH

- (a) The type of ignition switch used on this model differs depending on the specifications of the vehicle. The expressions listed in the table below are used in this section.

EXPRESSION	IGNITION SWITCH (POSITION)	ENGINE SWITCH (CONDITION)
Ignition Switch off	LOCK	Off (Lock)
Ignition Switch ACC	ACC	On (ACC)
Ignition Switch ON	ON	On (IG)
Engine Start	START	On (Start)



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: PROBLEM SYMPTOMS TABLE; 2016 MY Tacoma [08/2015 -]		

PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of the problem symptom. 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.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

Headlight and taillight system

SYMPTOM	SUSPECTED AREA	SEE PAGE
"Low beam" does not turn on (One side)	Headlight bulb (Low)	-
	Headlight Assembly	INFO
	Harness or connector	-
"Low beam" does not turn on (Both sides)	Low beam headlight circuit	INFO
	Harness or connector	-
	Headlight dimmer switch circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
"High beam" does not turn on (One side)	Headlight bulb (High)	-
	Headlight Assembly	INFO
	Harness or connector	-
"High beam" does not turn on (Both sides)	High beam headlight circuit	INFO
	Harness or connector	-
	Headlight dimmer switch circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
"Flash" does not turn on (Low beam and Hi-beam are normal)	Headlight dimmer switch circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
Headlight is dark	Headlight bulb	-
Taillight does not turn on (All)	Headlight dimmer switch circuit	INFO
	Taillight relay circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
Only one taillight turns on	Rear combination light assembly	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
	Tail and stop light bulb	-
Daytime running light system does not operate (Turn signal light normal) [w/ Daytime Running Light Halogen Type]	Headlight dimmer switch circuit	INFO
	CAN communication system	INFO
	Parking brake switch	INFO
	Daytime running light relay circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
	Combination meter assembly	INFO
Daytime running light system does not operate (Turn signal light normal) [w/ Daytime Running Light LED Type]	Headlight dimmer switch circuit	INFO
	Parking brake switch	INFO
	Daytime running light relay circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO

Light auto turn off system

SYMPTOM	SUSPECTED AREA	SEE PAGE
Light auto turn off system does not operate	Headlight dimmer switch circuit	INFO
	Ignition switch (w/o Smart key system)	-
	Engine switch (w/ Smart key system)	-
	Door courtesy switch circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO

Front fog light system (w/ Fog Light)

SYMPTOM	SUSPECTED AREA	SEE PAGE
Front fog light does not turn on (All)	Headlight dimmer switch circuit	INFO
	Front fog light circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
Only one front fog light does not turn on	Front fog light bulb	-

Turn signal and hazard warning system

SYMPTOM	SUSPECTED AREA	SEE PAGE
"Hazard" and "Turn" do not turn on	Combination meter assembly	INFO
	Harness or connector	-

SYMPTOM	SUSPECTED AREA	SEE PAGE
Hazard warning light does not turn on	Hazard warning switch circuit	INFO
	Harness or connector	-
	Combination meter assembly	INFO
Turn signal does not turn on	Meter/gauge system	INFO
	Headlight dimmer switch circuit	INFO
	Combination meter assembly	INFO

Stop light system

SYMPTOM	SUSPECTED AREA	SEE PAGE
Stop light does not operate (All)	Stop light switch assembly	INFO
	Harness or connector	-
	Rear combination light assembly	INFO
Only one stop light does not operate	Rear combination light assembly	INFO
Center stop light does not operate	Center stop light assembly	INFO
	Stop light switch assembly	INFO
	Harness or connector	-

Illuminated entry system

SYMPTOM	SUSPECTED AREA	SEE PAGE
Illuminated entry does not operate (All)	Door courtesy switch circuit	INFO
	Interior light circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO

Others

SYMPTOM	SUSPECTED AREA	SEE PAGE
Back-up light does not operate (All)	Park/neutral position switch	INFO
	Harness or connector	-
	Rear combination light assembly	INFO
Only one back-up light does not operate	Rear combination light assembly	INFO
Vanity light does not operate	Vanity light	INFO
	Harness or connector	-
Cargo light does not operate	Center stop light assembly	INFO
	Cargo light circuit	INFO
	Harness or connector	-
	Main body ECU (Multiplex network body ECU)	INFO

SYMPTOM	SUSPECTED AREA	SEE PAGE
Room light does not operate	Roof console box assembly	INFO
	Harness or connector	-

Battery saving control system

SYMPTOM	SUSPECTED AREA	SEE PAGE
Battery saving function (interior light auto cut function) does not operate	Interior light auto cut circuit	INFO
	Main body ECU (Multiplex network body ECU)	INFO
	Harness or connector	-



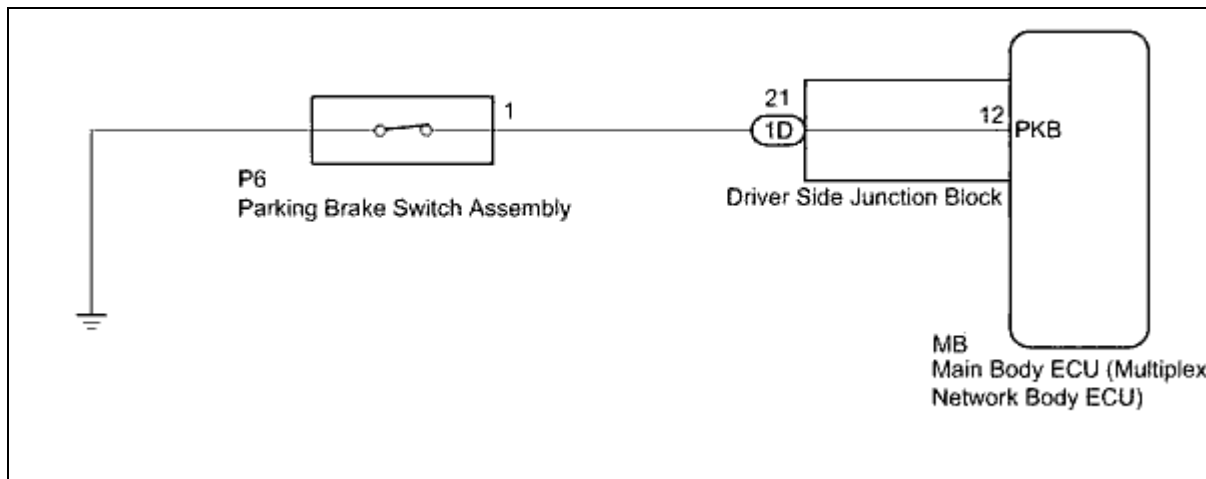
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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Parking Brake Switch Circuit; 2016 MY Tacoma [08/2015 -]		

Parking Brake Switch Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) detects the condition of the parking brake switch assembly.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

If the main body ECU (multiplex network body ECU) is replaced, refer to Registration [INFO](#) .*1

*1: w/ Smart Key System

PROCEDURE

1.	READ VALUE USING TECHSTREAM (PARKING BRAKE SW)
-----------	---

- 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.
- According to the display on the Techstream, read the Data List.

Main Body

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Parking Brake SW	Parking brake switch signal/ON or OFF	ON: Parking brake switch on OFF: Parking brake switch off	-

OK:

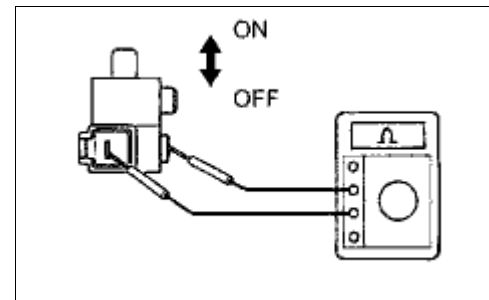
Normal conditions listed above are displayed.

NG ► **GO TO STEP 2**

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

2.	INSPECT PARKING BRAKE SWITCH ASSEMBLY
-----------	--

(a) Remove the parking brake switch assembly **INFO** .



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

Standard Resistance:

TESTER CONNECTION	SWITCH CONDITION	SPECIFIED CONDITION
1 - Switch body	Shaft pushed in (OFF)	10 k Ω or higher
1 - Switch body	Shaft not pushed in (ON)	Below 1 Ω

NG ► **REPLACE PARKING BRAKE SWITCH ASSEMBLY**

OK
▼

3.	CHECK HARNESS AND CONNECTOR (PARKING BRAKE SWITCH ASSEMBLY - DRIVER SIDE JUNCTION BLOCK)
-----------	---

(a) Disconnect the 1D driver side junction block connector.

(b) Disconnect the P6 parking brake switch assembly connector.

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

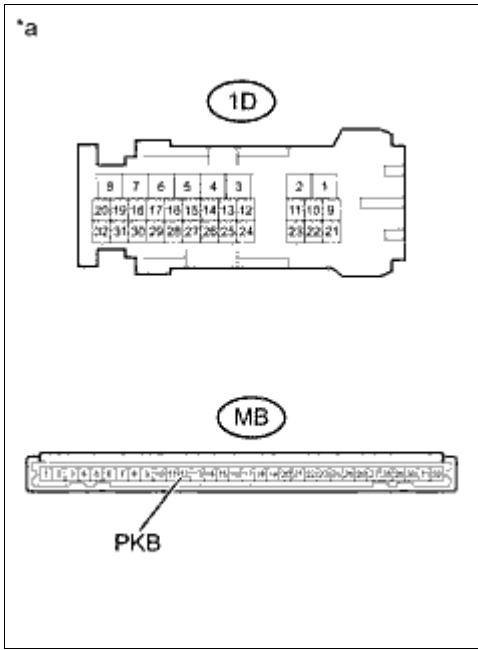
Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
P6-1 - 1D-21	Always	Below 1 Ω
P6-1 - Body ground	Always	10 k Ω or higher

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


4.	INSPECT DRIVER SIDE JUNCTION BLOCK
-----------	---



(a) Remove the driver side junction block.

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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1D-21 - MB-12 (PKB)	Always	Below 1 Ω
1D-21 - Body ground	Always	10 k Ω or higher

Text in Illustration

*1	Component without harness connected (Driver Side Junction Block)
-----------	---

NG ► REPLACE DRIVER SIDE JUNCTION BLOCK

OK ► REPLACE MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: SYSTEM DESCRIPTION; 2016 MY Tacoma [08/2015 -]		

SYSTEM DESCRIPTION

1. ILLUMINATED ENTRY SYSTEM

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

CONTROL	OUTLINE	LIGHTS THAT OPERATE
Actuation Area-linked*1	When a registered key enters any actuation area around the doors, the lights that operate turn on.	• Engine Switch Illumination • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly
	When a registered key leaves all of the actuation areas around the doors, the lights that operate turn off.	
Door Lock/Unlock-linked	When any door is unlocked, the lights that operate turn on.	• Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly
	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.	• Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly
	When all doors are closed, the lights that operate turn off.	
Engine Switch-linked*1	When the ignition switch is turned from on or on (ACC) to off, the lights that operate turn on.	• Engine Switch Illumination • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly
	When the ignition switch is turned from off to ON or ACC, the lights that operate turn off.	

CONTROL	OUTLINE	LIGHTS THAT OPERATE
Ignition Switch-linked*2	When the ignition switch is turned from ON or ACC to off, the lights that operate turn on.	• Transponder Key Coil (Ignition Key Cylinder Light) • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly
	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: • An actuation area-linked function is used.*1 • The door unlock-linked function is active. • Any door is opened and then all doors are closed when the ignition switch is off. • The ignition switch is turned from ON to off when all doors are closed.*2	• Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly
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 to ON or ACC • Any door is opened and closed • Any door is unlocked • The key enters any exterior actuation area*1	• Engine Switch Illumination*1 • Transponder Key Coil (Ignition Key Cylinder Light)*2 • Deck Light Switch Assembly • Roof Console Box Assembly (Map Light) • No. 1 Room Light Assembly

*1: w/ Smart Key System

*2: w/o Smart Key System

2. AUTOMATIC LIGHT CONTROL SYSTEM

- (a) When the light control switch is in the AUTO position, the automatic light control system detects ambient light levels and controls the low beam headlights, parking lights, taillights and license plate lights.

3. LIGHT AUTO TURN-OFF SYSTEM

- (a) The light auto turn-off system is used to prevent the exterior lights from being accidentally left on (headlights, front fog lights, taillights, parking lights and license plate lights).

This system has the following functions.

FUNCTION	OUTLINE
Delay Function	The exterior lights automatically turn off after 30 seconds when all of the

FUNCTION	OUTLINE
	following conditions are met: • The ignition switch is turned from ON to off. • The headlights are on. • All doors are closed after any of the doors are opened.
Door Control Transmitter-linked Function	The exterior lights turn off immediately when the delay function is active and the following condition is met: • The lock button on the key is pushed after all doors are locked.
Door Open-linked	The exterior lights automatically turn off immediately when all of the following conditions are met: • The ignition switch is turned from ON to off. • The taillights are on. (The headlights are off.) • The driver door is opened.

4. DAYTIME RUNNING LIGHT SYSTEM

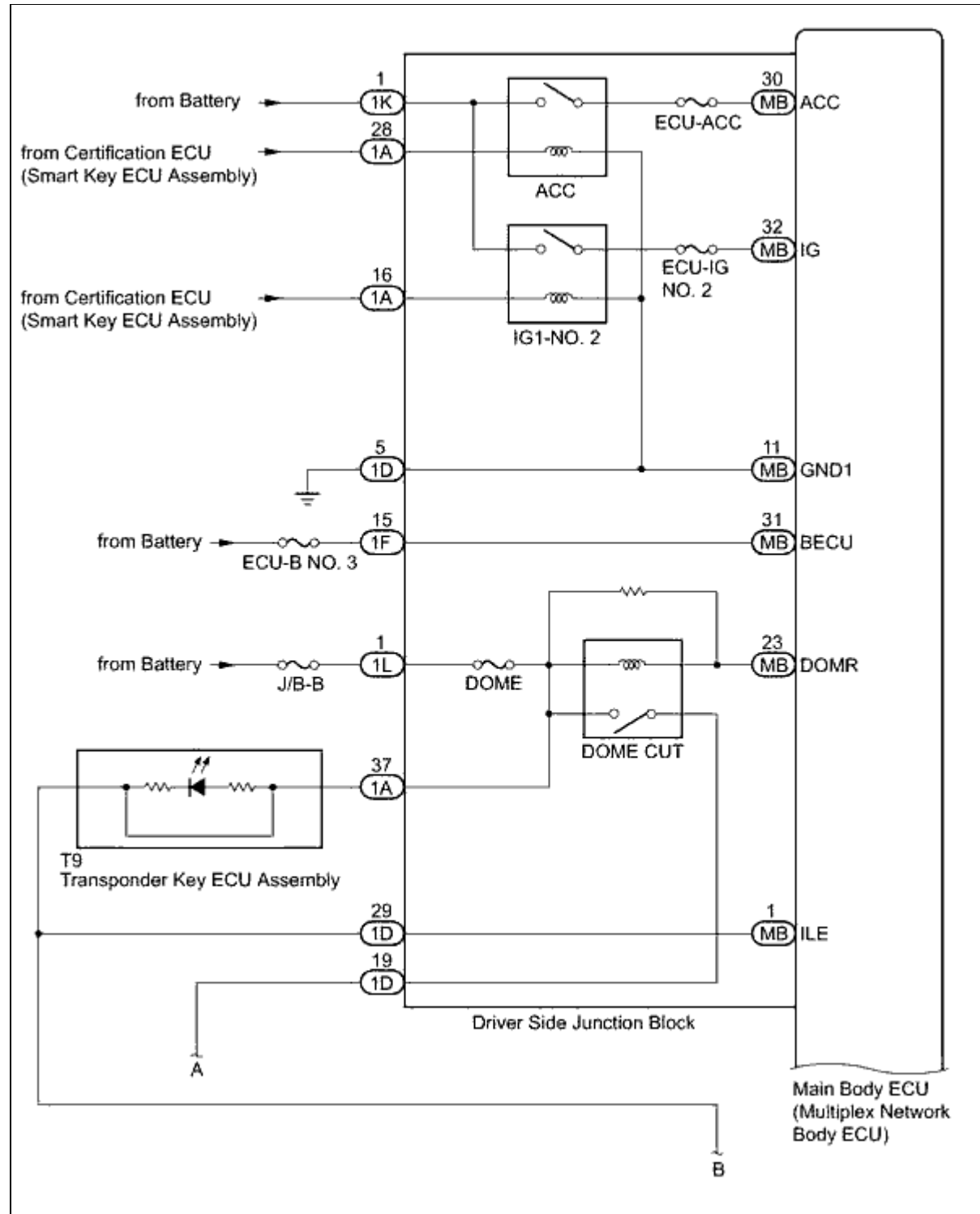
(a) The daytime running light system is designed to automatically illuminate the daytime running lights during the daytime to make the vehicle more visible to other vehicles.

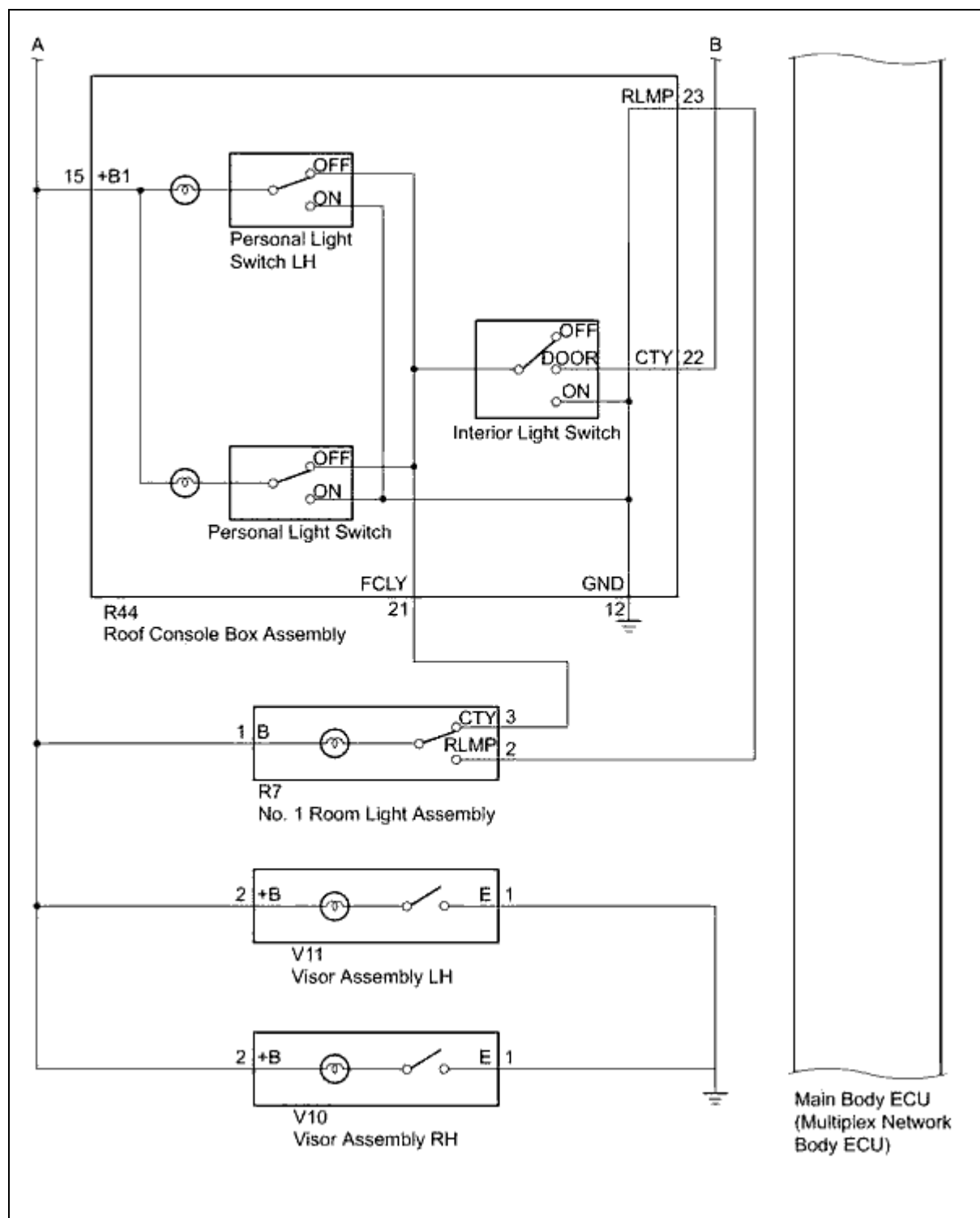
- This system is controlled by the main body ECU (multiplex network body ECU) and daytime running light relay. The main body ECU (multiplex network body ECU) transmits a turn ON signal to the daytime running light relay, which illuminates the daytime running lights.
- This system is enabled when the following conditions are met:
 - Ignition switch is ON.
 - Engine speed signal is input (engine running).
 - Light control switch is in the tail or AUTO position (and the low beam headlights are not turned on via the automatic light control system).
 - Parking brake switch is off.

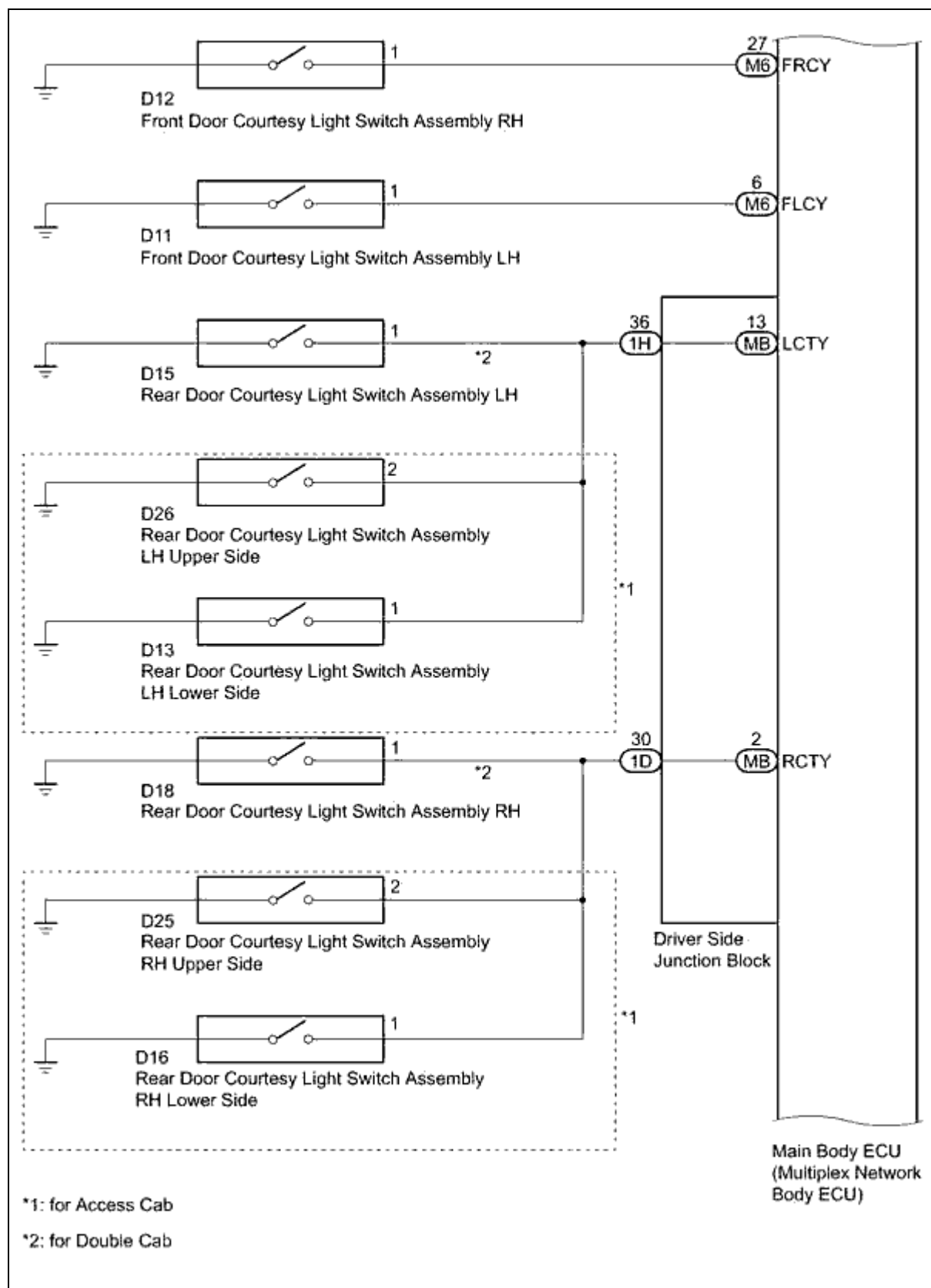


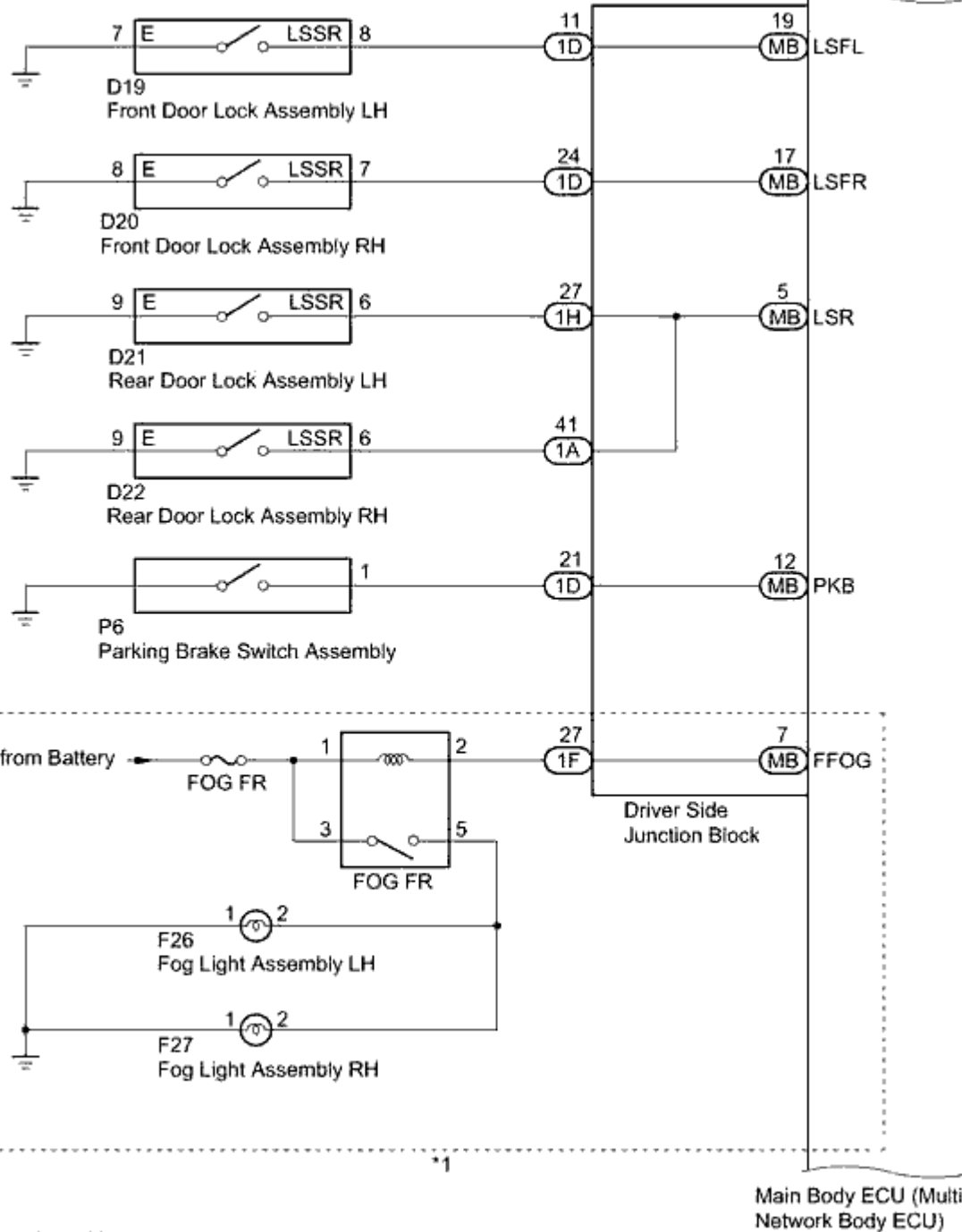
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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: SYSTEM DIAGRAM; 2016 MY Tacoma [08/2015 -]		

SYSTEM DIAGRAM

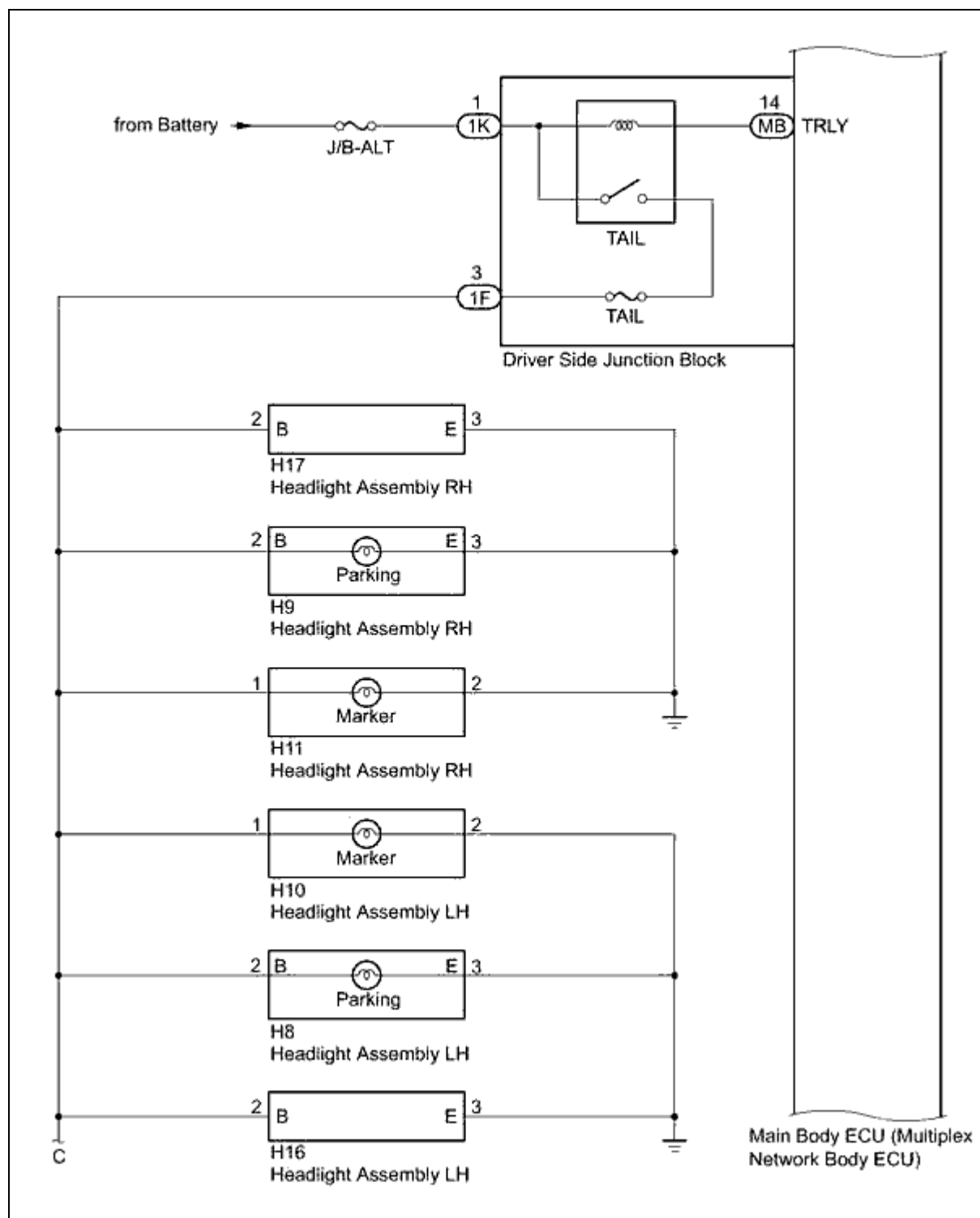


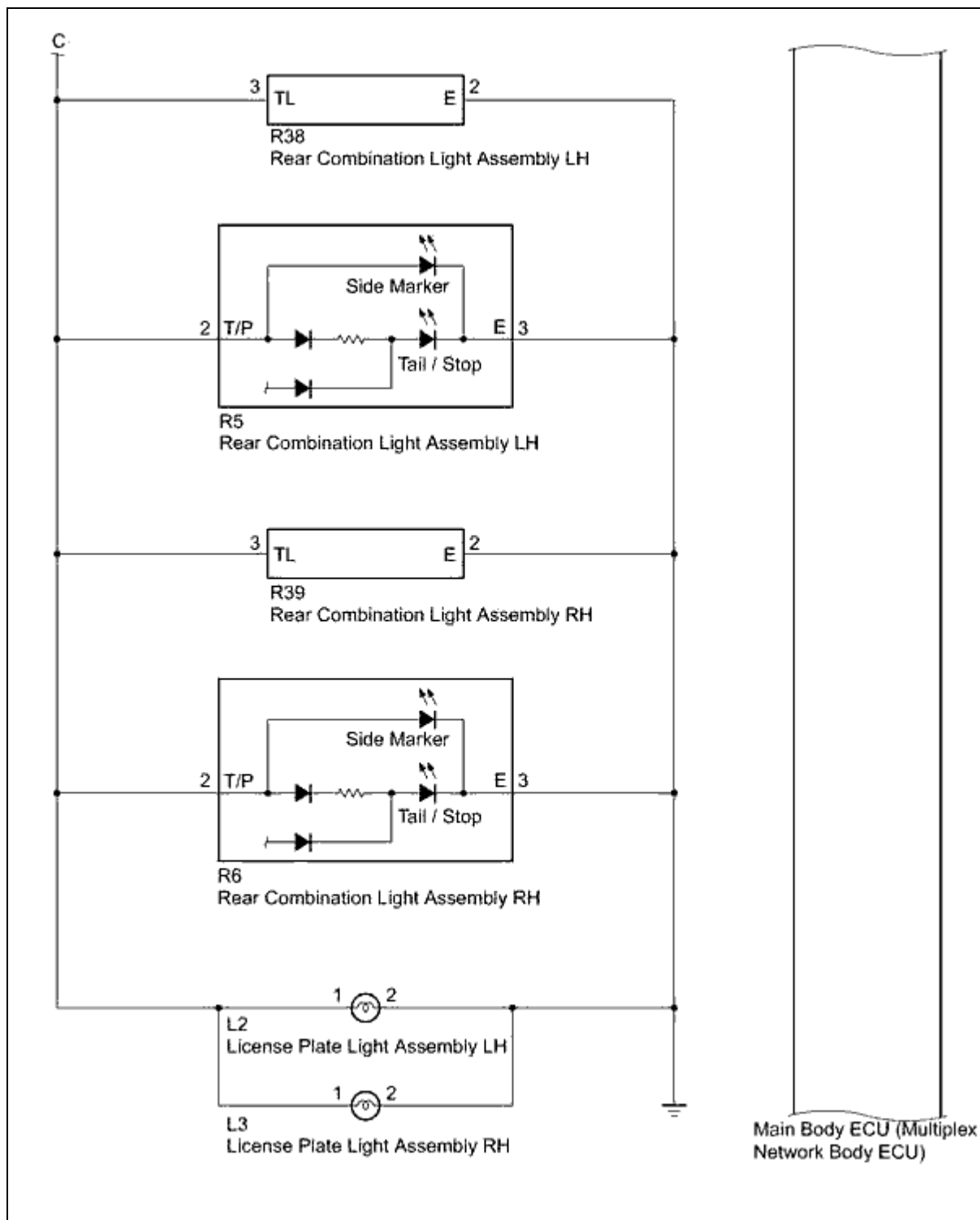


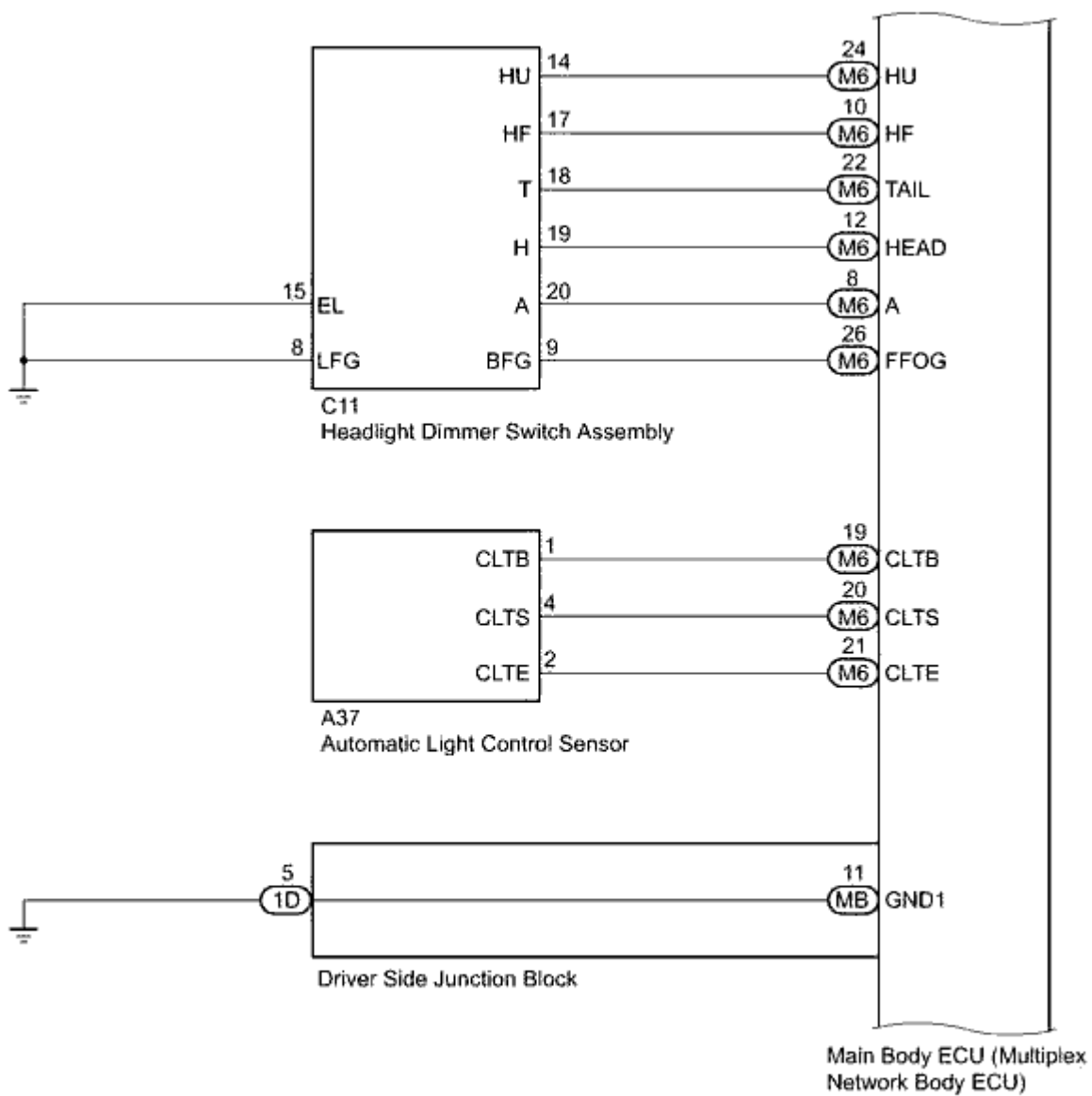


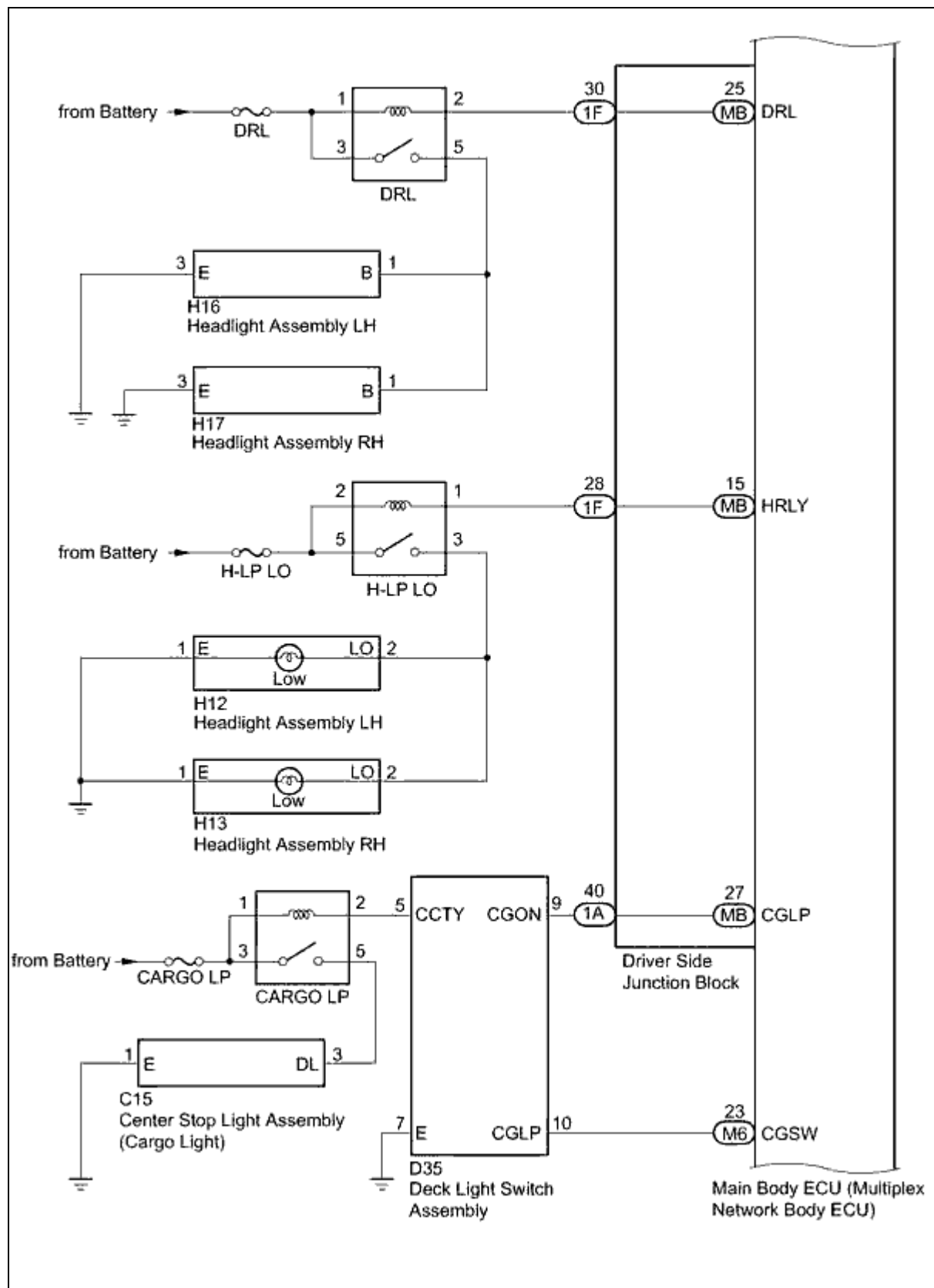


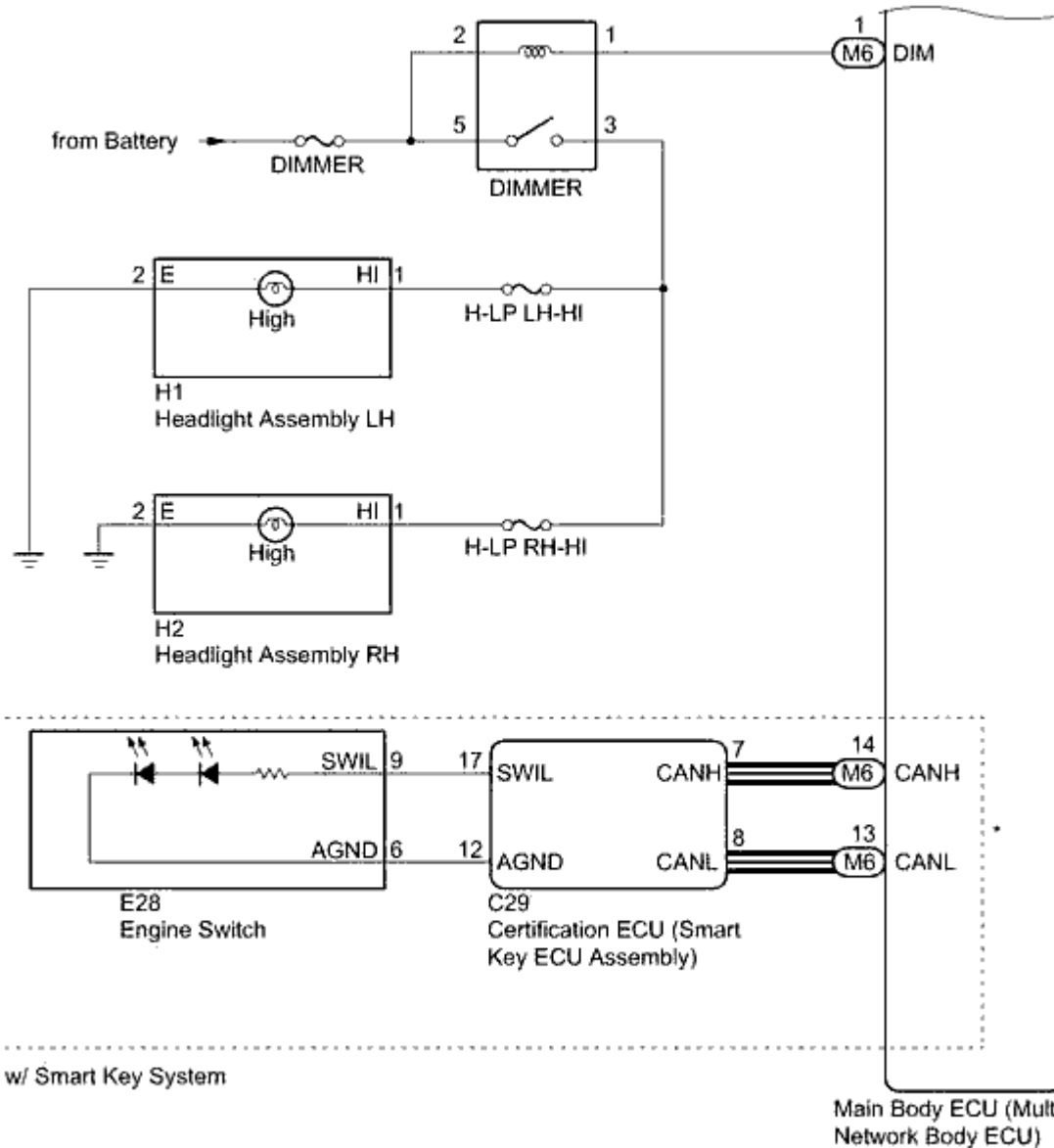
*1: w/ Fog Light

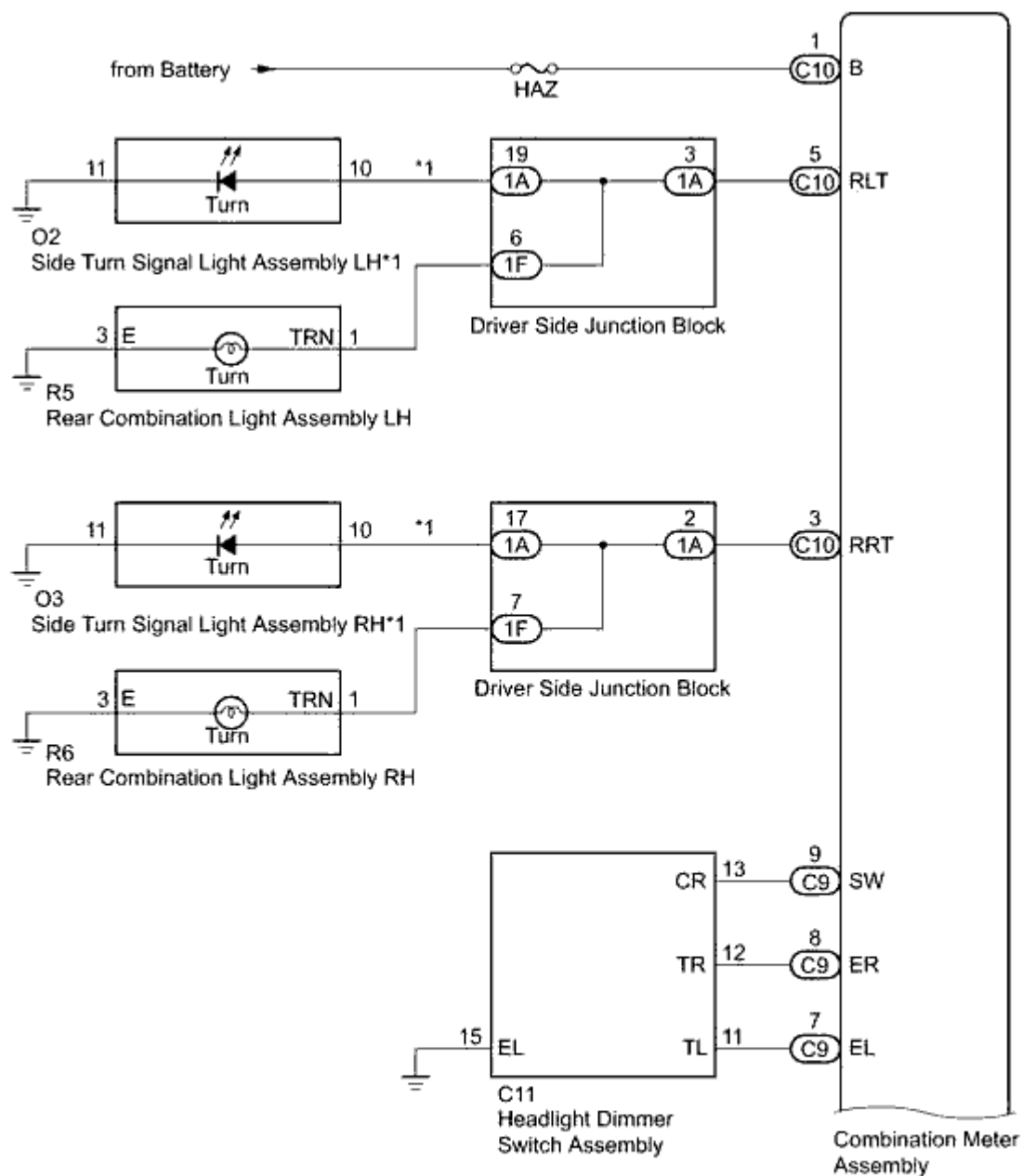




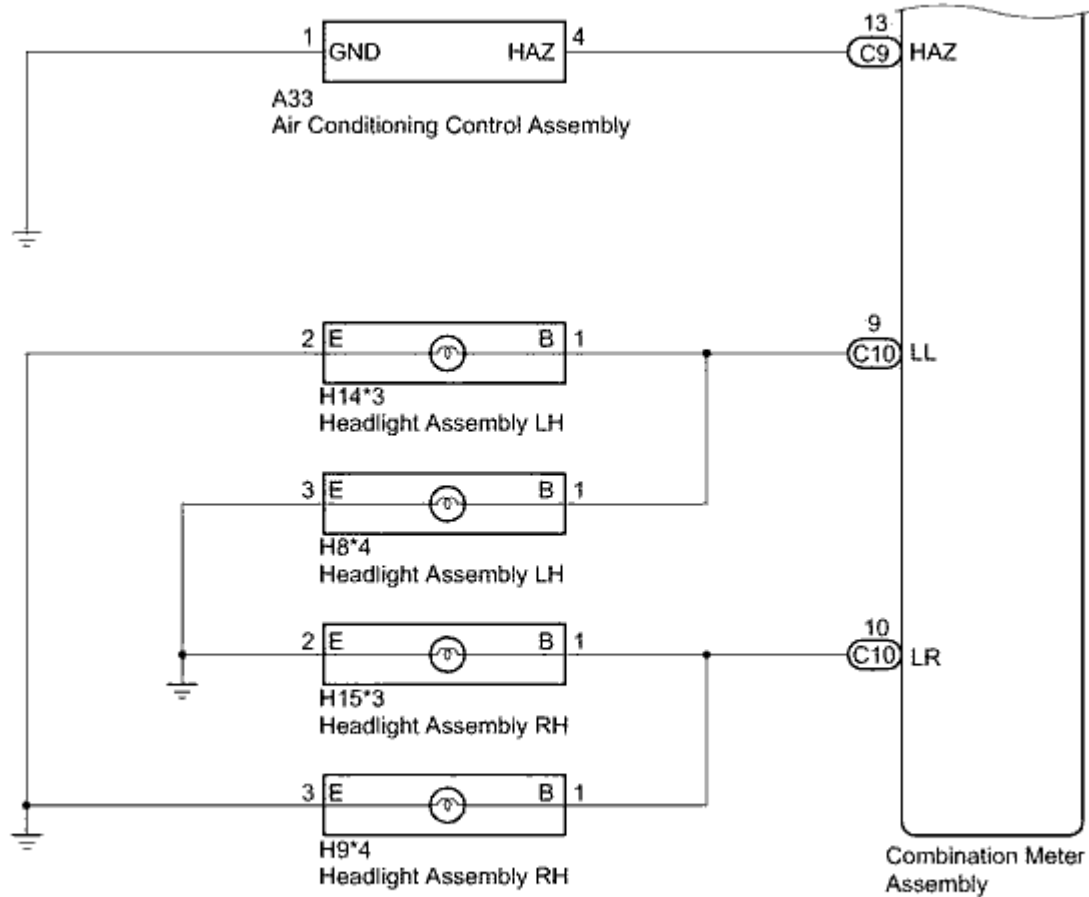








*1: w/ Outer Rear View Mirror Side Signal Light



*1: for Automatic Air Conditioning System

*2: for Manual Air Conditioning System

*3: for DRL LED Type

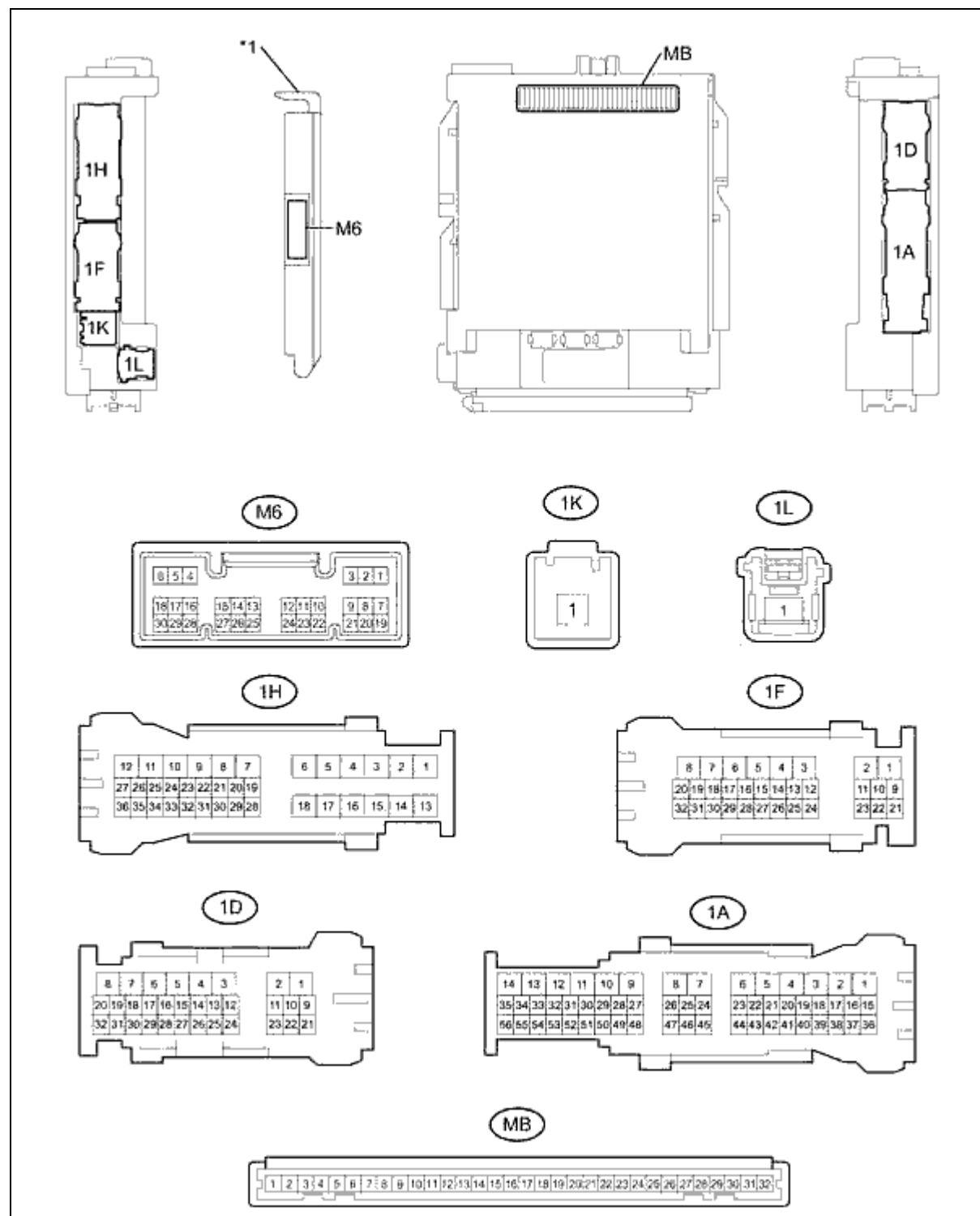
*4: for DRL Bulb Type



Last Modified: 11-13-2015	6.6 U	Doc ID: RM000002WKN01DX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: TERMINALS OF ECU; 2016 MY Tacoma [08/2015 -]		

TERMINALS OF ECU

1. CHECK MAIN BODY ECU (MULTIPLEX NETWORK BODY ECU)



Text in Illustration

*1	Main Body ECU (Multiplex Network Body ECU)	-	-
----	--	---	---

(a) Disconnect the driver side junction block and main body ECU (multiplex network body ECU) connectors.

(b) Measure the voltage on the wire harness side connector according to the value(s) in the table below.

TERMINAL NO. (SYMBOLS)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
MB-31 (BECU) - 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 on the wire harness side connector according to the value(s) in the table below.

TERMINAL NO. (SYMBOLS)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
MB-11 (GND1) - 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 driver side junction block and main body ECU (multiplex network body ECU) connectors.

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

TERMINAL NO. (SYMBOLS)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
MB-30 (ACC) - Body ground	-	ACC power supply	Ignition switch ACC	11 to 14 V
			Ignition switch off	Below 1 V
MB-32 (IG) - Body ground	-	IG power supply	Ignition switch ON	11 to 14 V
			Ignition switch off	Below 1 V
M6-1 (DIM) - Body ground	Y - Body ground	Dimmer relay output	Dimmer switch in low position	11 to 14 V
			Dimmer switch in high or high flash position	Below 1 V
1F-28 - Body ground	W - Body ground	Headlight relay drive output	Light control switch in head position	Below 1 V
			Light control switch not in head position	11 to 14 V
1F-30 - Body ground	R - Body ground	Daytime running light system drive output	Daytime running light system operating	Below 1 V
			Daytime running light system not operating	11 to 14 V
M6-24 (HU) - Body ground	BE - Body ground	Dimmer switch high position signal input	Dimmer switch in high position	Below 1 V
			Dimmer switch not in high position	11 to 14 V or pulse generation
M6-10 (HF) - Body ground	SB - Body ground	Dimmer switch high flash position signal input	Dimmer switch in high flash position	Below 1 V
			Dimmer switch not in high flash position	11 to 14 V or pulse generation

TERMINAL NO. (SYMBOLS)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
M6-22 (TAIL) - Body ground	G - Body ground	Light control switch tail position signal input	Light control switch in tail or head position	Below 1 V
			Ignition switch off, light control switch not in tail or head position	11 to 14 V or pulse generation
M6-12 (HEAD) - Body ground	Y - Body ground	Light control switch head position input	Light control switch in head position	Below 1 V
			Ignition switch off, light control switch not in head position	11 to 14 V or pulse generation
M6-8 (A)*2 - Body ground	W - Body ground	Light control switch AUTO position signal input	Light control switch in AUTO position	Below 1 V
			Ignition switch off, light control switch not in AUTO position	11 to 14 V or pulse generation
M6-26 (FFOG) - Body ground	L - Body ground	Fog light switch front position input	Fog light switch in front position	Below 1 V
			Ignition switch off, fog light switch off	11 to 14 V or pulse generation
M6-19 (CLTB)*1 - M6-21 (CLTE)*1	P - R	Automatic light control sensor power supply output	Ignition switch off	Below 1 V
			Ignition switch ON	11 to 14 V
M6-20 (CLTS)*1 - Body ground	GR - Body ground	Automatic light control sensor signal input	Ignition switch off	Below 1 V
			Ignition switch ON	Communication waveform generation (See waveform 1)
1F-27 - Body ground	BE - Body ground	Front fog light drive output	Light control switch in tail or head position, fog light switch in front position	Below 1 V
			Light control switch in tail or head position, fog light switch off	11 to 14 V
1H-36 - Body ground	P - Body ground	Rear door courtesy light switch LH input	Rear door LH open	Below 1 V
			Rear door LH closed	Pulse generation
1D-30 - Body ground	V - Body ground	Rear door courtesy light switch RH input	Rear door RH open	Below 1 V
			Rear door RH closed	Pulse generation
M6-6 (FLCY) - Body ground	Y - Body ground	Front door courtesy light switch LH input	Front door LH open	Below 1 V
			Front door LH closed	pulse generation
M6-27 (FRCY) - Body ground	LG - Body ground	Front door courtesy light switch RH input	Front door RH open	Below 1 V
			Front door RH closed	pulse generation

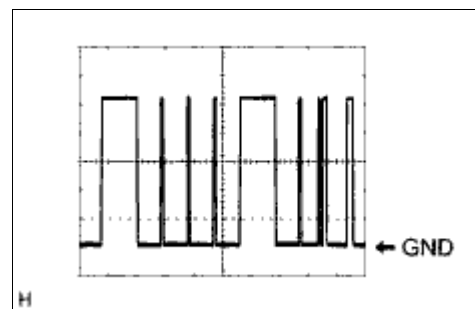
TERMINAL NO. (SYMBOLS)	WIRING COLOR	TERMINAL DESCRIPTION	CONDITION	SPECIFIED CONDITION
1H-27 - Body ground	L - Body ground	Rear door unlock detection switch LH input	Rear door LH locked	Pulse generation
			Rear door LH or rear door RH unlocked	Below 1 V
1A-41 - Body ground	Y - Body ground	Rear door unlock detection switch RH input	Rear door RH locked	Pulse generation
			Rear door LH or rear door RH unlocked	Below 1 V
1D-11 - Body ground	P - Body ground	Front door unlock detection switch LH input	Front door LH locked	Pulse generation
			Front door LH unlocked	Below 1 V
1D-24 - Body ground	GR - Body ground	Front door unlock detection switch RH input	Front door RH locked	Pulse generation
			Front door RH unlocked	Below 1 V

*1: w/ Automatic Light Control

- (1) If the result is not as specified, the main body ECU (multiplex network body ECU) or driver side junction block may be malfunctioning.

Waveform 1

ITEM	CONTENT
Tool setting	2 V/DIV., 10 ms./DIV.
Vehicle condition	Ignition switch ON, automatic light control system operating



HINT:

The communication waveform changes according to the surrounding brightness.



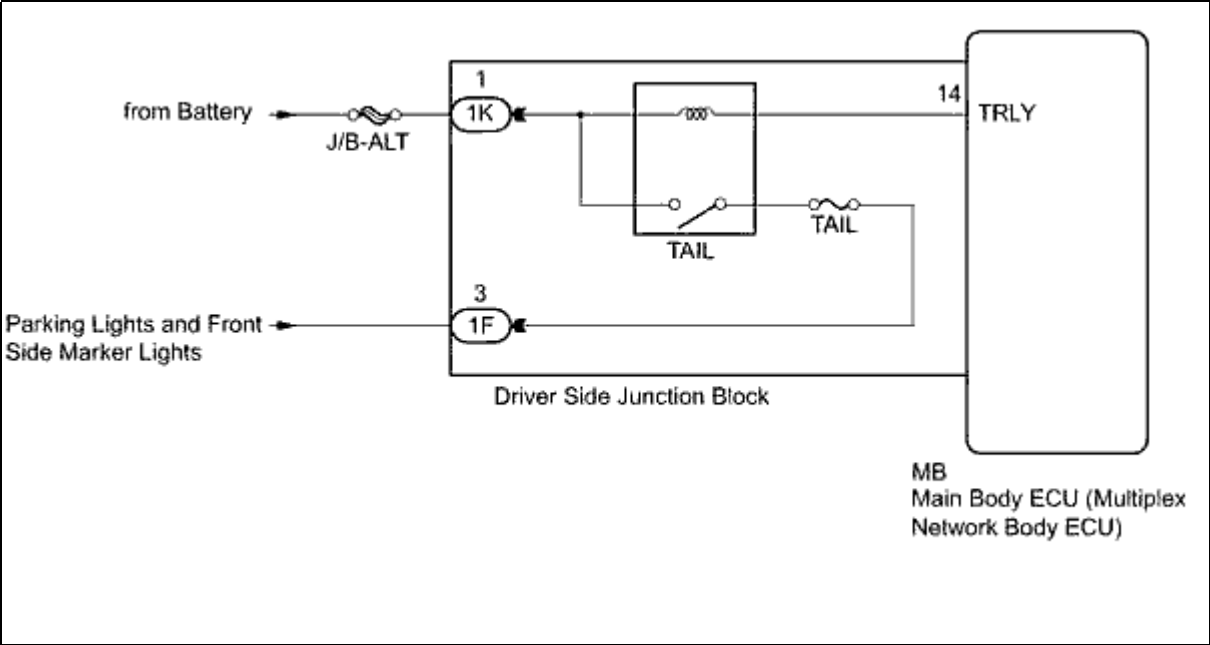
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Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Taillight Relay Circuit; 2016 MY Tacoma [08/2015 -]		

Taillight Relay Circuit

DESCRIPTION

The main body ECU (multiplex network body ECU) controls the operation of the TAIL relay.

WIRING DIAGRAM



INSPECTION PROCEDURE

NOTICE:

- Inspect the fuses for circuits related to this system before performing the following inspection procedure.
 - If the main body ECU (multiplex network body ECU) is replaced, refer to Registration INFO .*1
- *1: w/ Smart Key System

PROCEDURE

1.	PERFORM ACTIVE TEST USING TECHSTREAM (TAILLIGHT RELAY)
-----------	---

- (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) Perform the Active Test according to the display on the Techstream.

Main Body

TESTER DISPLAY	TEST PART	CONTROL RANGE	DIAGNOSTIC NOTE
Taillight Relay	Taillight relay	ON/OFF	-

OK:

Taillight relay operates. (Taillights illuminate.)

NG  **GO TO STEP 2**

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

2.	CHECK HARNESS AND CONNECTOR (BATTERY - DRIVER SIDE JUNCTION BLOCK)
-----------	---

(a) Disconnect the 1K driver side junction block connector.

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

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1K-1 - Body ground	Always	11 to 14 V

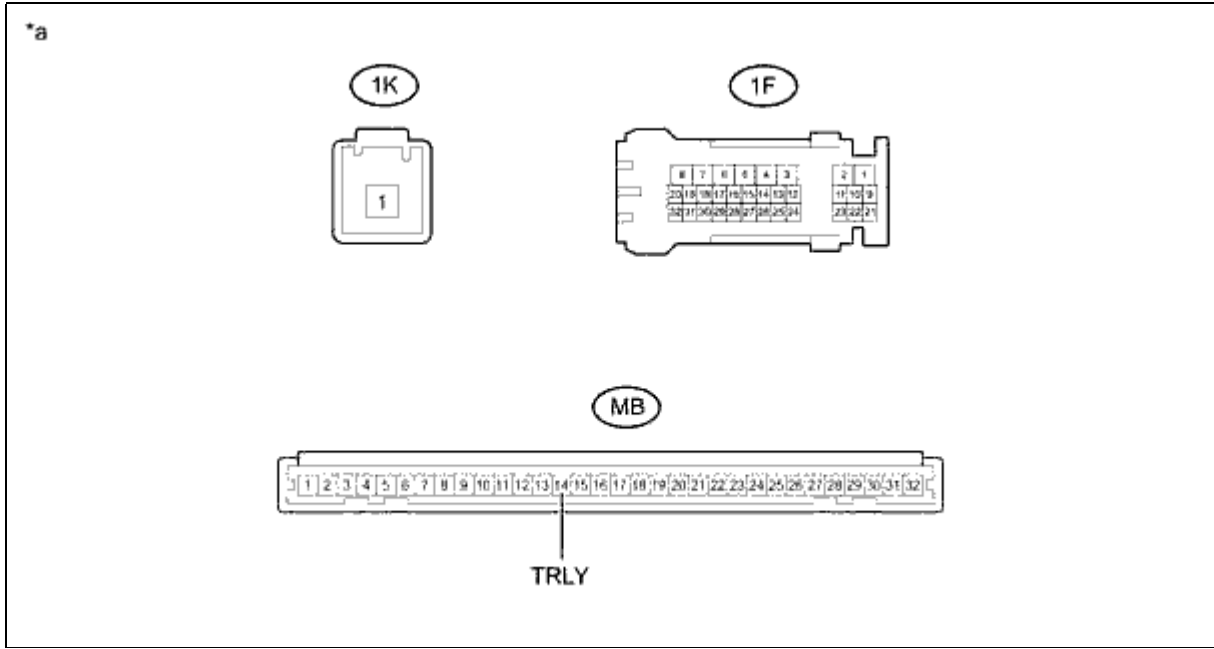
NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK


3.	INSPECT DRIVER SIDE JUNCTION BLOCK
-----------	---

(a) Remove the driver side junction block  .

(b) Remove the main body ECU (multiplex network body ECU) from the driver side junction block.



Text in Illustration

*a	Component without harness connected (Driver Side Junction Block)	-	-
----	---	---	---

- (c) Connect a positive (+) lead from the battery to terminal 1K-1.
- (d) Connect a negative (-) lead from the battery to terminal MB-14 (TRLY).
- (e) Measure the voltage according to the value(s) in the table below.

Standard Voltage:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1F-3 - Battery negative terminal	Always	11 to 14 V

NG ► **REPLACE DRIVER SIDE JUNCTION BLOCK**

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



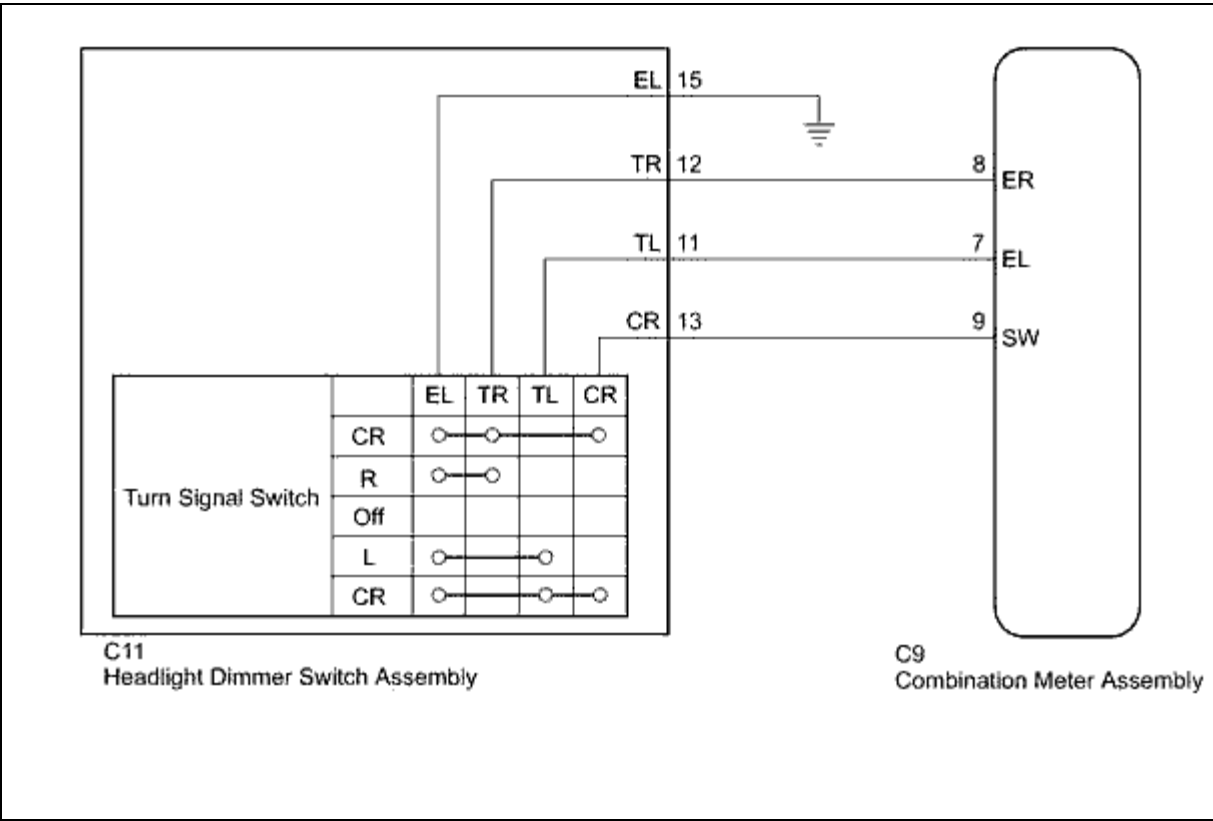
Last Modified: 11-13-2015	6.6 J	Doc ID: RM000005VNH000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: LIGHTING SYSTEM: Turn Signal Switch Circuit; 2016 MY Tacoma [08/2015 -]		

Turn Signal Switch Circuit

DESCRIPTION

The combination meter assembly receives the turn signal switch information and controls the turn signal lights.

WIRING DIAGRAM



INSPECTION PROCEDURE

PROCEDURE

1.	READ VALUE USING TECHSTREAM (TURN SIGNAL SWITCH)
----	---

- (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 / Combination Meter / Data List.

(e) According to the display on the Techstream, read the Data List.

Combination Meter

TESTER DISPLAY	MEASUREMENT ITEM/RANGE	NORMAL CONDITION	DIAGNOSTIC NOTE
Turn Signal Switch (Right)	Turn signal switch (right) signal / ON or OFF	ON: Turn signal switch (right) on OFF: Turn signal switch (right) off	-
Turn Signal Switch (Left)	Turn signal switch (left) signal / ON or OFF	ON: Turn signal switch (left) on OFF: Turn signal switch (left) off	-
Turn Switch Signal (Full Turn)	Turn signal switch (full turn) signal / ON or OFF	ON: Turn signal switch (left or right) on OFF: Turn signal switch (left and right) off	-

OK:

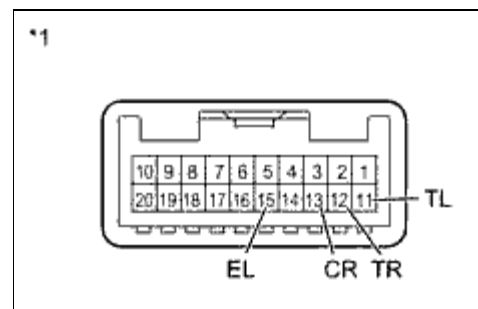
Normal conditions listed above are displayed.

NG ► **GO TO STEP 2**

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

2.	INSPECT HEADLIGHT DIMMER SWITCH ASSEMBLY
-----------	---

(a) Remove the C11 headlight dimmer switch assembly.



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

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
12 (TR) - 15 (EL)	Turn signal switch in neutral position	10 k Ω or higher
11 (TL) - 15 (EL)	Turn signal switch in neutral position	10 k Ω or higher
13 (CR) - 15 (EL)	Turn signal switch in neutral position	10 k Ω or higher
12 (TR) - 15 (EL)	Turn signal switch in right turn position	Below 1 Ω

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
13 (CR) - 15 (EL)	Turn signal switch in full right turn position	Below 1 Ω
11 (TL) - 15 (EL)	Turn signal switch in left turn position	Below 1 Ω
13 (CR) - 15 (EL)	Turn signal switch in full left turn position	Below 1 Ω

Text in Illustration

*1	Component without harness connected (Headlight Dimmer Switch Assembly)
----	---

NG  **REPLACE HEADLIGHT DIMMER SWITCH ASSEMBLY**

OK


3.	CHECK HARNESS AND CONNECTOR (HEADLIGHT DIMMER SWITCH ASSEMBLY - COMBINATION METER ASSEMBLY AND BODY GROUND)
-----------	--

- (a) Disconnect the C9 combination meter assembly connector.
- (b) Disconnect the C11 headlight dimmer switch assembly connector.
- (c) Measure the resistance according to the value(s) in the table below.

Standard Resistance:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
C11-12 (TR) - C9-8 (ER)	Always	Below 1 Ω
C11-11 (TL) - C9-7 (EL)	Always	Below 1 Ω
C11-13 (CR) - C9-9 (SW)	Always	Below 1 Ω
C11-12 (TR) - Body ground	Always	10 k Ω or higher
C11-11 (TL) - Body ground	Always	10 k Ω or higher
C11-13 (CR) - Body ground	Always	10 k Ω or higher
C11-15 (EL) - Body ground	Always	Below 1 Ω

NG  **REPAIR OR REPLACE HARNESS OR CONNECTOR**

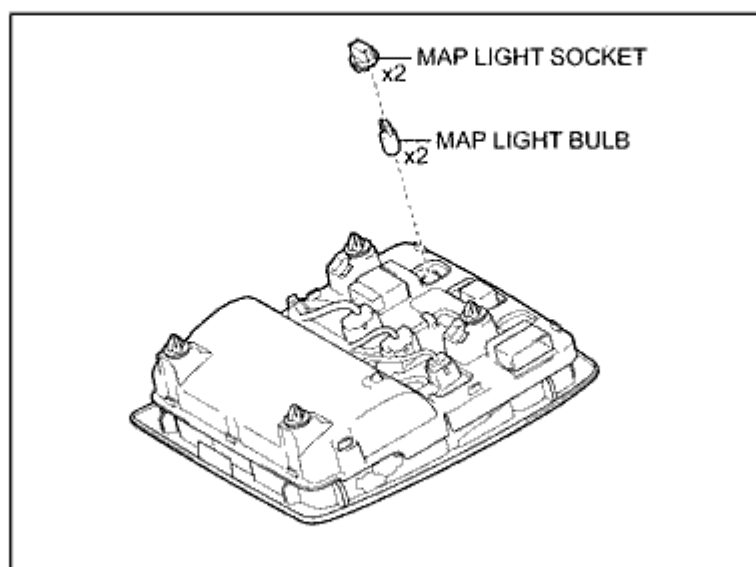
OK  **PROCEED TO NEXT SUSPECTED AREA SHOWN IN PROBLEM SYMPTOMS TABLE**



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VT9000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: PERSONAL LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



ROOF CONSOLE BOX ASSEMBLY



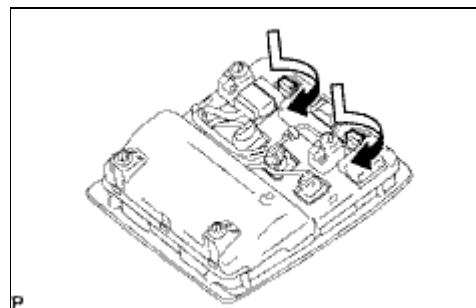
Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VT8000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: PERSONAL LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL MAP LIGHT BULB

(a) Install the 2 map light bulbs to the 2 map light sockets.

(b) Turn the 2 map light sockets with 2 map light bulbs in the direction indicated by the arrow shown in the illustration to install them



2. INSTALL ROOF CONSOLE BOX ASSEMBLY

(a) Connect the connector.

(b) Engage the 4 clips to install the roof console box assembly.

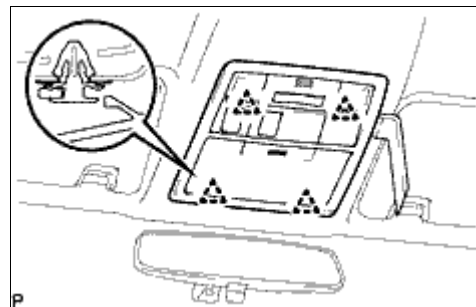


Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VTA000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: PERSONAL LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

1. REMOVE ROOF CONSOLE BOX ASSEMBLY

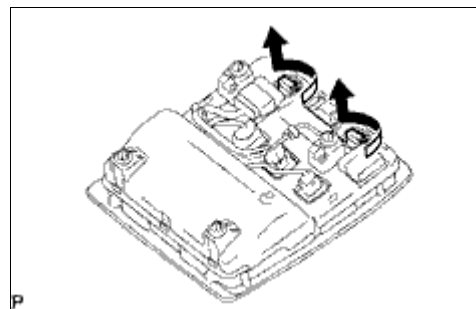
- (a) Using a moulding remover D, disengage the 4 clips to separate the roof console box assembly.



- (b) Disconnect the connector to remove the roof console box assembly.

2. REMOVE MAP LIGHT BULB

- (a) Turn the 2 map light sockets with the 2 map light bulbs in the direction indicated by the arrow shown in the illustration to remove them.



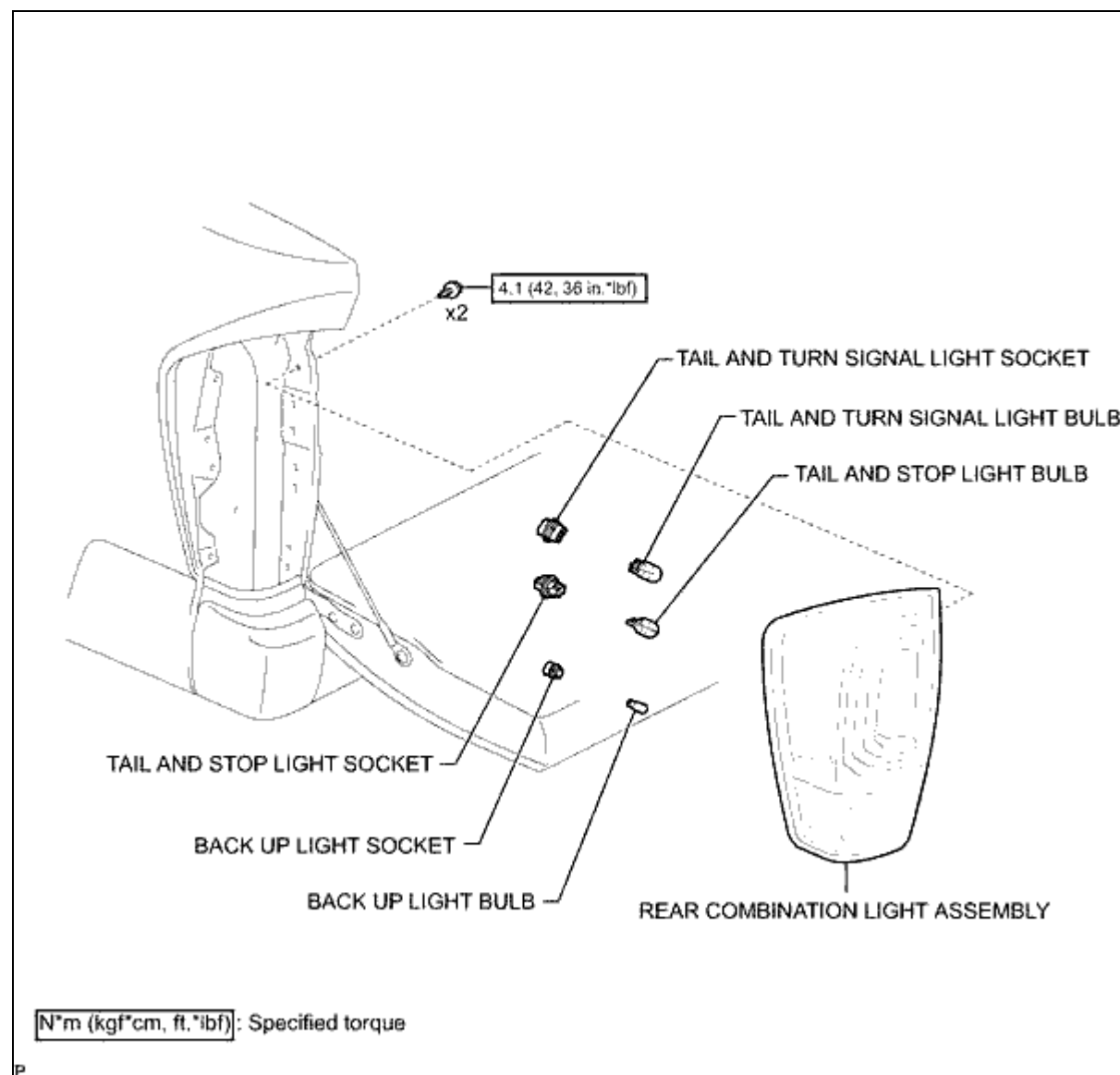
- (b) Remove the map light bulb from the map light socket.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000016Y300AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: REAR COMBINATION LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



P



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VOF000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: REAR COMBINATION LIGHT ASSEMBLY: DISASSEMBLY; 2016 MY Tacoma [08/2015 -]		

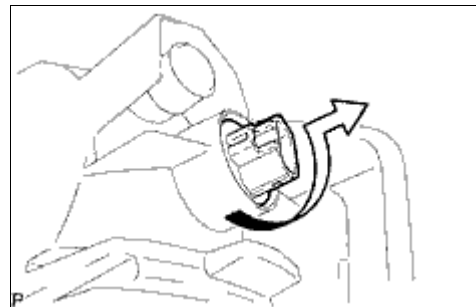
DISASSEMBLY

HINT:

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

1. REMOVE TAIL AND TURN SIGNAL LIGHT BULB

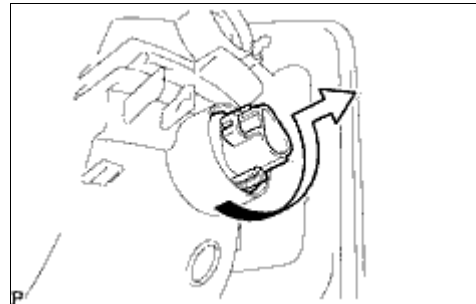
- (a) Turn the tail and turn signal light socket with the tail and turn signal light bulb in the direction indicated by the arrow shown in the illustration to remove them.



- (b) Remove the tail and turn signal light bulb from the tail and turn signal light socket.

2. REMOVE TAIL AND STOP LIGHT BULB

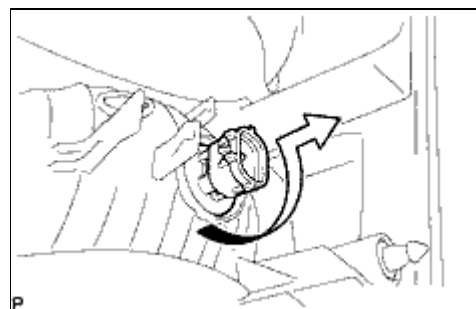
- (a) Turn the tail and stop light socket with the tail and stop light bulb in the direction indicated by the arrow shown in the illustration to remove them.



- (b) Remove the tail and stop light bulb from the tail and stop light socket.

3. REMOVE BACK UP LIGHT BULB

- (a) Turn the back up light socket with the back up light bulb in the direction indicated by the arrow shown in the illustration to remove them.



- (b) Remove the back up light bulb from the back up light socket.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016Y200AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: REAR COMBINATION LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

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

1. INSTALL REAR COMBINATION LIGHT ASSEMBLY

- Connect the 3 connectors.
- Engage the 2 guides to install the wire harness.
- Engage the 2 pins to install the rear combination light assembly.
- Install the 2 bolts.

Torque:

4.1 N·m {42 kgf·cm, 36in·lbf}



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VOG000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: REAR COMBINATION LIGHT ASSEMBLY: REASSEMBLY; 2016 MY Tacoma [08/2015 -]		

REASSEMBLY

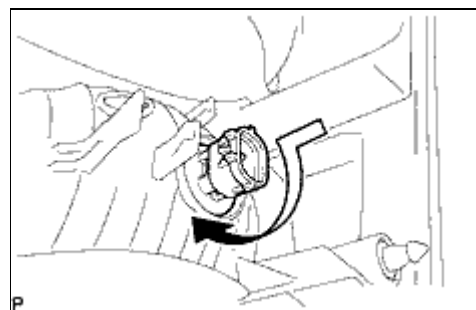
HINT:

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

1. INSTALL BACK UP LIGHT BULB

- (a) Install the back up light bulb to the back up light socket.

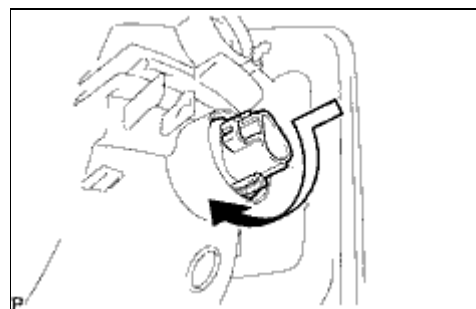
- (b) Turn the back up light socket with back up light bulb in the direction indicated by the arrow shown in the illustration to install them.



2. INSTALL TAIL AND STOP LIGHT BULB

- (a) Install the tail and stop light bulb to the tail and stop light socket.

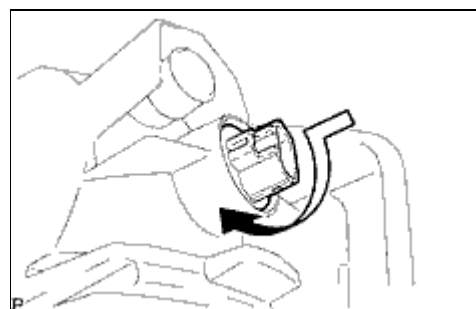
- (b) Turn the tail and stop light socket with tail and stop light bulb in the direction indicated by the arrow shown in the illustration to install them.



3. INSTALL TAIL AND TURN SIGNAL LIGHT BULB

- (a) Install the tail and turn signal light bulb to the tail and turn signal light socket.

- (b) Turn the tail and turn signal light socket with tail and turn signal light bulb in the direction indicated by the arrow shown in the illustration to install them.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000016Y400AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: REAR COMBINATION LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

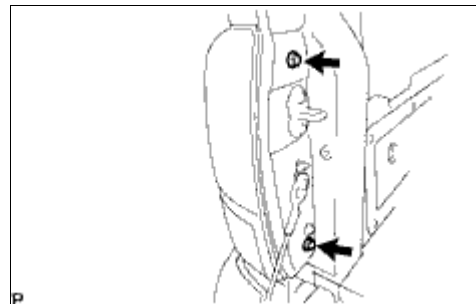
REMOVAL

HINT:

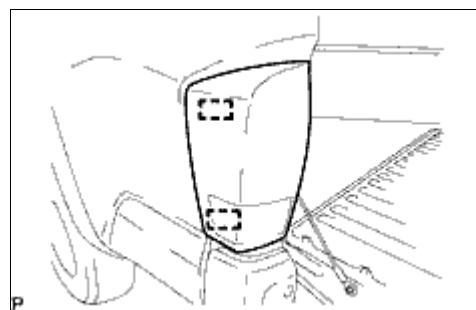
- Use the same procedure for both the LH and RH sides.
- The procedure described below is for the LH side.

1. REMOVE REAR COMBINATION LIGHT ASSEMBLY

(a) Remove the 2 bolts.



(b) Disengage the 2 pins to separate the rear combination light assembly.



(c) Disengage the 2 guides to separate the wire harness.



(d) Disconnect the 3 connectors to remove the rear combination light assembly.



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016YC00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: REAR DOOR COURTESY SWITCH: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT REAR DOOR COURTESY SWITCH

(a) Check the resistance.

(1) Measure the resistance using an ohmmeter, and check the results in accordance with the value(s) in the table below.

Standard:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1-Switch body	ON (When shaft is pressed)	10 k Ω or higher
1-Switch body	OFF (When shaft is not pressed)	Below 1 Ω

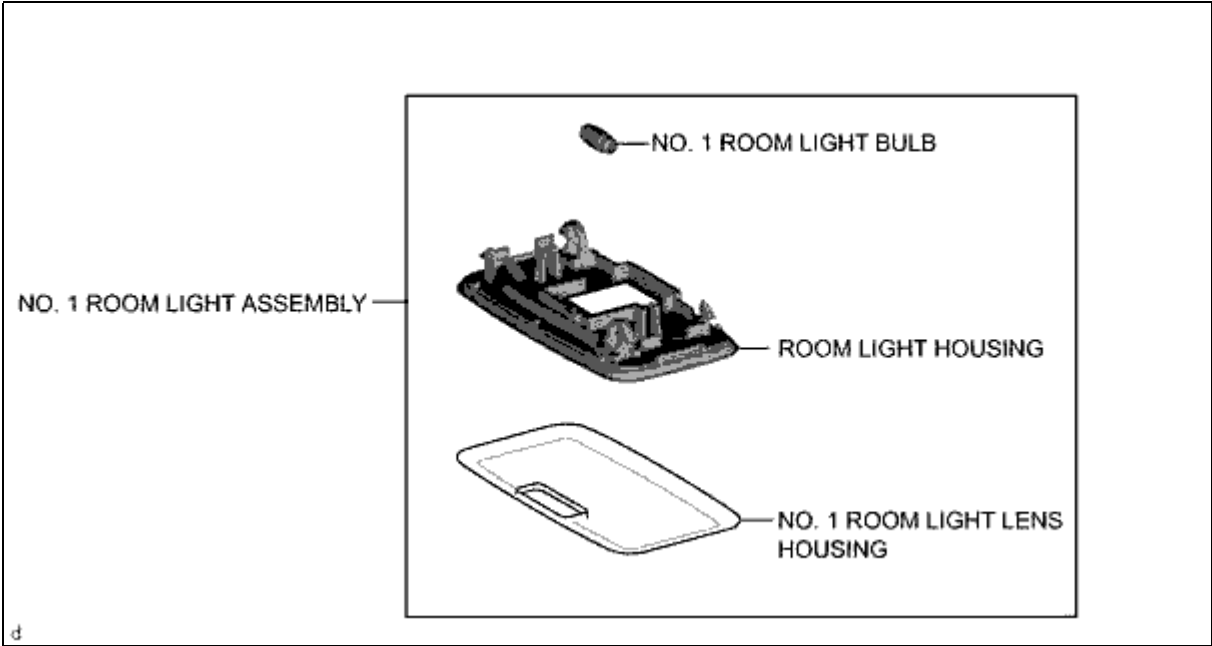
If the result is not as specified, replace the rear door courtesy light switch assembly.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VT6000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: ROOM LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VT5000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: ROOM LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

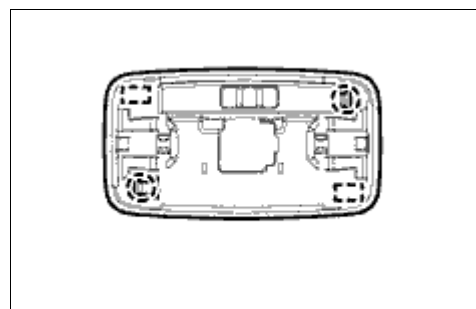
1. INSTALL NO. 1 ROOM LIGHT BULB

- (a) Install the No. 1 room light bulb.

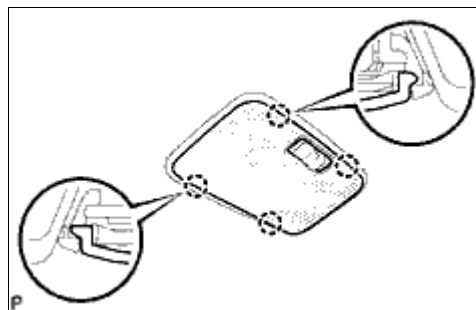
2. INSTALL NO. 1 ROOM LIGHT ASSEMBLY

- (a) Engage the 4 claws to install the No. 1 room light housing to the room light switch base.
- (b) Engage the guide to install the wire harness.

- (c) Engage the 2 guides and 2 claws to install the No. 1 room light housing.



- (d) Engage the 4 claws to install the No. 1 room light lens.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VT7000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: ROOM LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

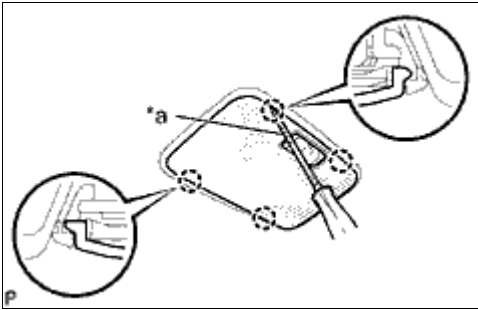
REMOVAL

1. REMOVE NO. 1 ROOM LIGHT ASSEMBLY

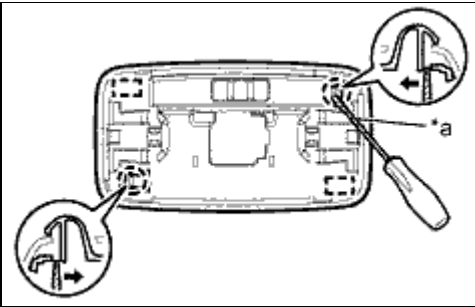
- (a) Using a screwdriver with its tip wrapped in protective tape, disengage the 4 claws to remove the No. 1 room light lens.

Text in Illustration

*a	Protective Tape
----	-----------------



- (b) Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and 2 guides to separate the No. 1 room light housing as shown in the illustration.

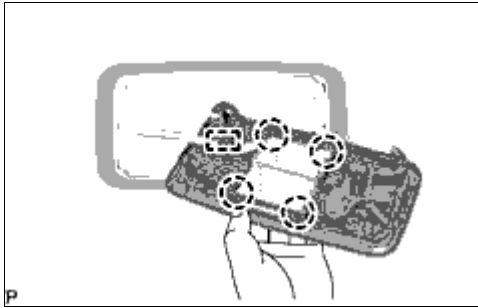


Text in Illustration

*a	Protective Tape
	Push

- (c) Disengage the guide to separate the wire harness.

- (d) Disengage the 4 claws to separate the No. 1 room light housing from the room light switch base.



2. REMOVE NO. 1 ROOM LIGHT BULB

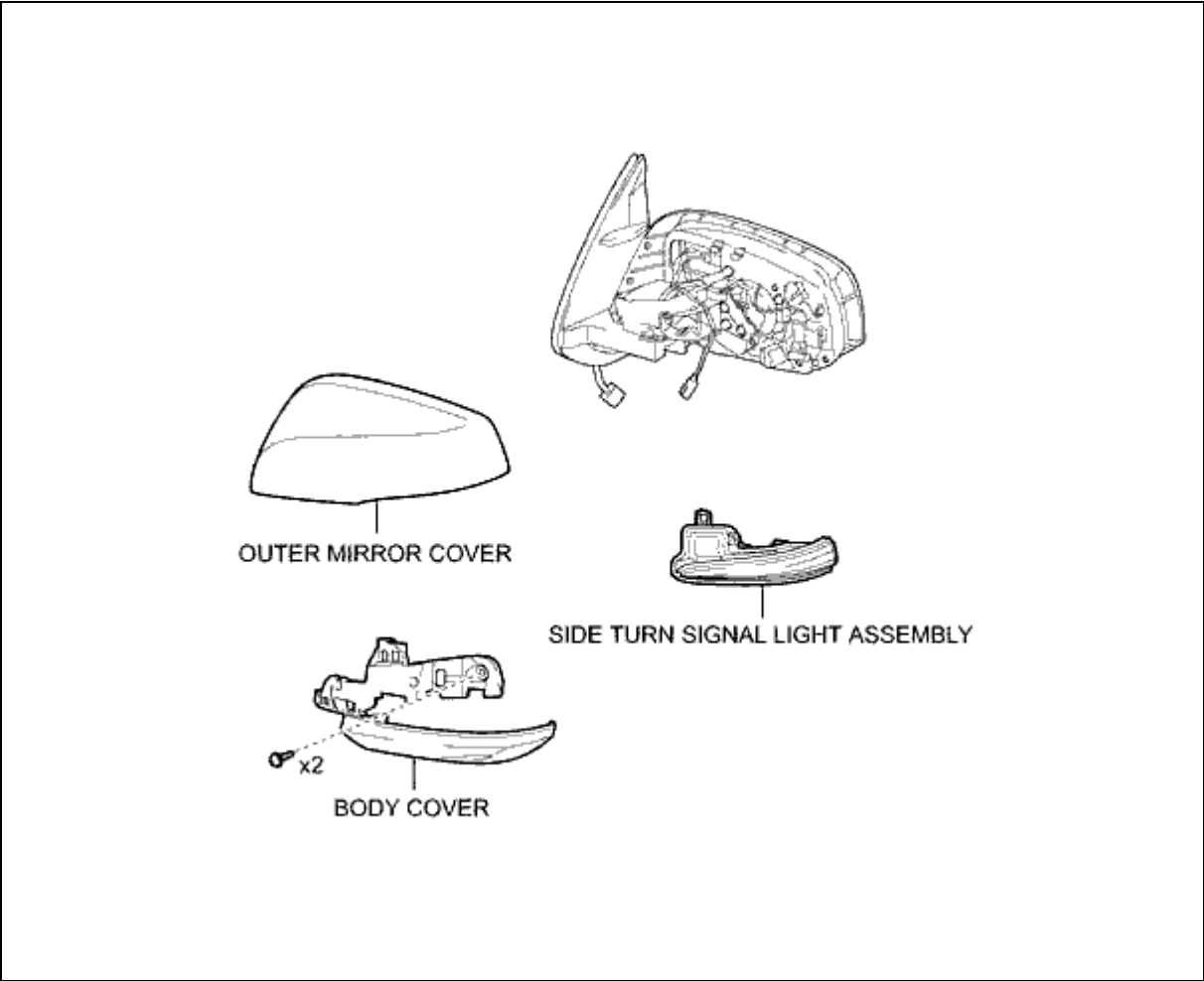
- (a) Remove the No. 1 room light bulb.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000002RS800PX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: SIDE TURN SIGNAL LIGHT ASSEMBLY: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 G	Doc ID: RM000002FZ703CX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: SIDE TURN SIGNAL LIGHT ASSEMBLY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT SIDE TURN SIGNAL LIGHT ASSEMBLY LH

(a) Check the illuminates.

(1) Apply battery voltage to the connector and check the light illumination condition.

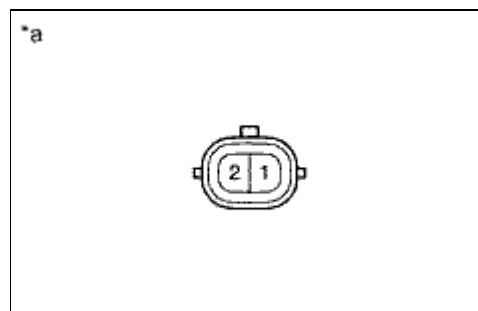
Text in Illustration

*a	Component without harness connected (Side Turn Signal Light Assembly LH)
----	---

OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → 1 Battery negative (-) → 2	Side turn signal light illuminates

If the result is not as specified, replace the side turn signal light assembly LH.



2. INSPECT SIDE TURN SIGNAL LIGHT ASSEMBLY RH

(a) Check the illuminates.

(1) Apply battery voltage to the connector and check the light illumination condition.

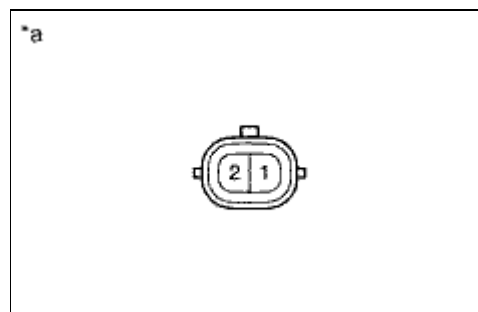
Text in Illustration

*a	Component without harness connected (Side Turn Signal Light Assembly RH)
----	---

OK:

MEASUREMENT CONDITION	SPECIFIED CONDITION
Battery positive (+) → 1 Battery negative (-) → 2	Side turn signal light illuminates

If the result is not as specified, replace the side turn signal light assembly RH.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000002RS700PX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: SIDE TURN SIGNAL LIGHT ASSEMBLY: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

HINT:

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

1. INSTALL SIDE TURN SIGNAL LIGHT ASSEMBLY

- Engage the 2 guides and 2 claws to install the side turn signal light assembly.
- Connect the connector.
- Engage the clamp to install the wire harness.
- Engage the 4 claws to install the body cover with side turn signal light assembly.
- Install the 2 screws.

2. INSTALL OUTER MIRROR COVER INFO

3. INSTALL OUTER REAR VIEW MIRROR ASSEMBLY



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000002RS900PX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: SIDE TURN SIGNAL LIGHT ASSEMBLY: REMOVAL; 2016 MY Tacoma [08/2015 -]		

REMOVAL

HINT:

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

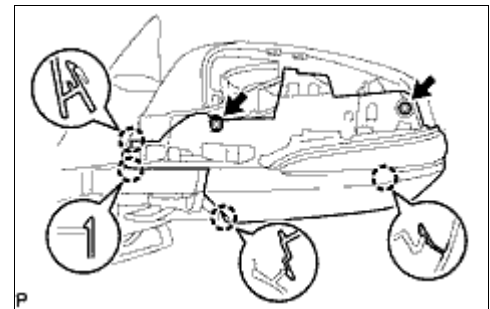
1. REMOVE OUTER REAR VIEW MIRROR ASSEMBLY

INFO

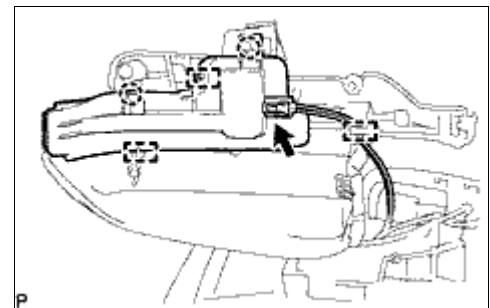
2. REMOVE OUTER MIRROR COVER INFO

3. REMOVE SIDE TURN SIGNAL LIGHT ASSEMBLY

(a) Remove the 2 screws.



(b) Disengage the 4 claws to separate the body cover with side turn signal light assembly.



(c) Disengage the guide to separate the wire harness.

(d) Disconnect the connector to remove the body cover with side turn signal light assembly.

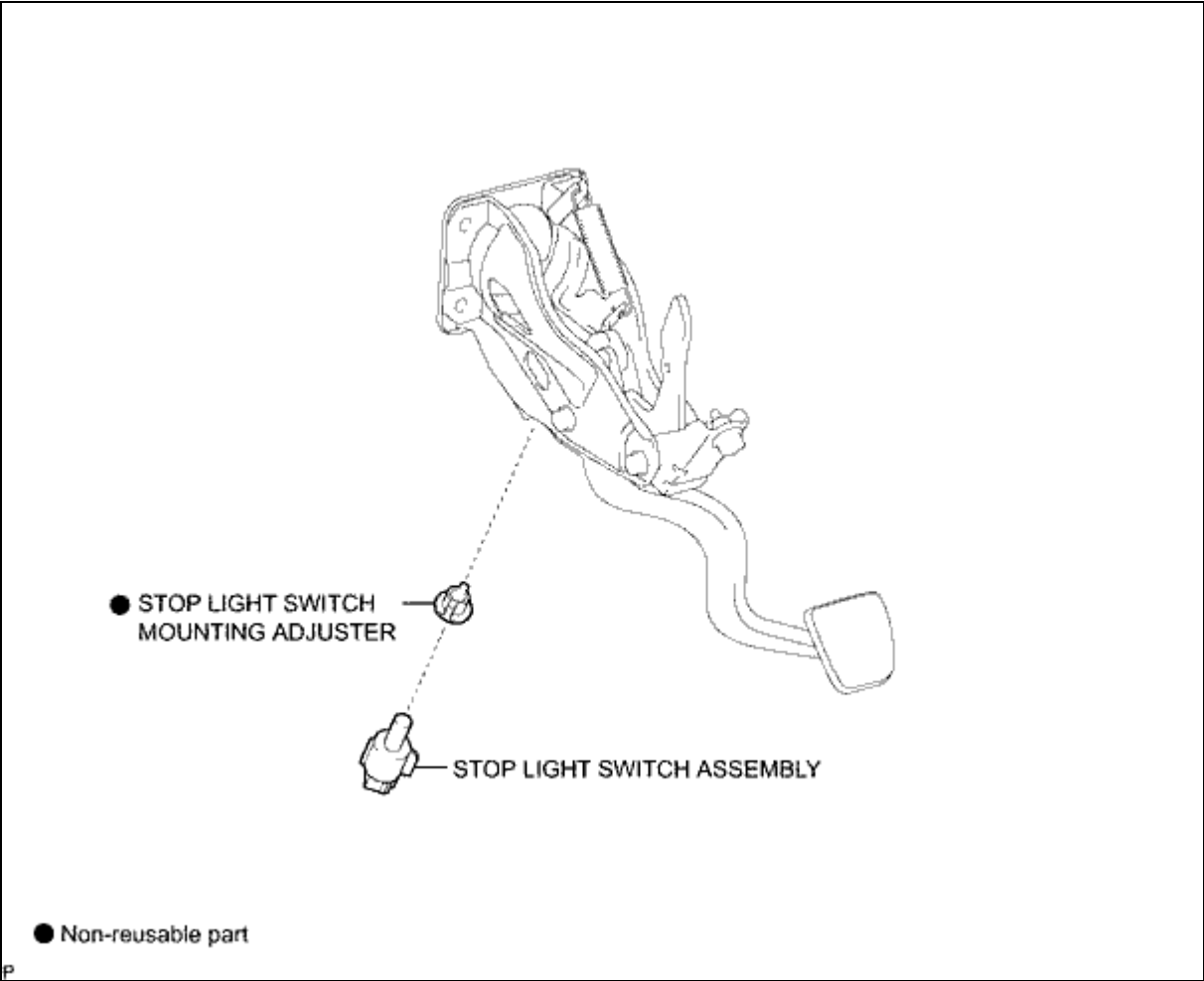
(e) Disengage the 2 claws and 2 guides to remove the side turn signal light assembly.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM000005VT0000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: STOP LIGHT SWITCH: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 G	Doc ID: RM0000016XT00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: STOP LIGHT SWITCH: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

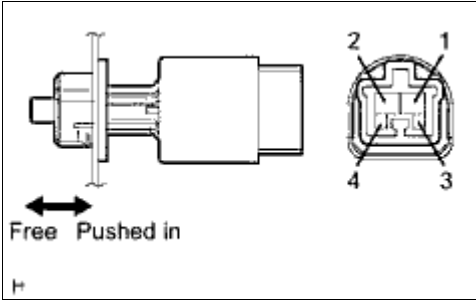
1. INSPECT STOP LIGHT SWITCH

- (a) Check the resistance.
- (1) Measure the resistance using an ohmmeter, and check the results in accordance with the value(s) in the table below.

Standard:

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION
1-2	Switch pin free	Below 1 Ω
3-4	Switch pin free	10 kΩ or higher
1-2	Switch pin pushed in	10 kΩ or higher
3-4	Switch pin pushed in	Below 1 Ω

If the result is not as specified, replace the stop light switch assembly.

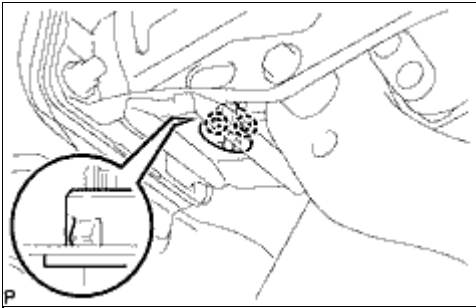


Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VSZ000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: STOP LIGHT SWITCH: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL STOP LIGHT SWITCH MOUNTING ADJUSTER

- (a) Engage the 2 claws to install a new stop light switch mounting adjuster.

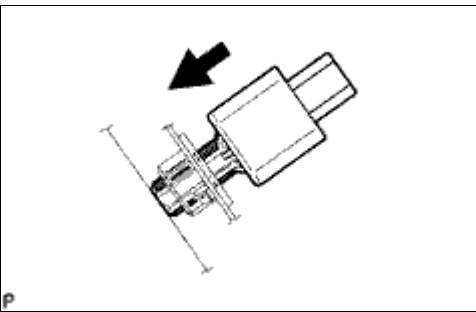


2. INSTALL STOP LIGHT SWITCH ASSEMBLY

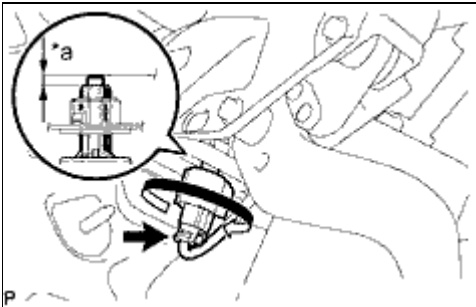
- (a) Insert the stop light switch assembly to the stop light switch mounting adjuster until the switch body slightly touches the brake pedal.

NOTICE:

Do not depress the brake pedal.



- (b) Rotate the stop light switch assembly clockwise by approximately one fourth of a rotation.



Text in Illustration

*a	Protrusion Amount Measurement Area
----	------------------------------------

- (c) Check the protrusion amount of the shaft.
- Standard:
1.5 to 2.6 mm (0.0591 to 0.1024 in.)
- (d) Connect the connector.

3. INSTALL LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY



Last Modified: 11-13-2015	6.6 A	Doc ID: RM000005VT1000X
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: STOP LIGHT SWITCH: REMOVAL; 2016 MY Tacoma [08/2015 -]		

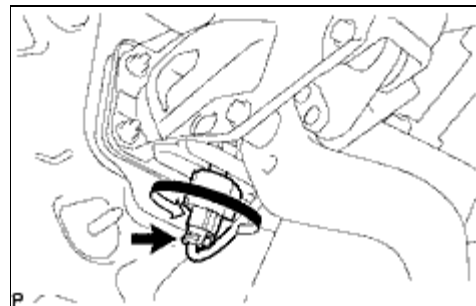
REMOVAL

1. REMOVE LOWER NO. 1 INSTRUMENT PANEL AIRBAG ASSEMBLY

INFO

2. REMOVE STOP LIGHT SWITCH ASSEMBLY

- (a) Disconnect the connector.



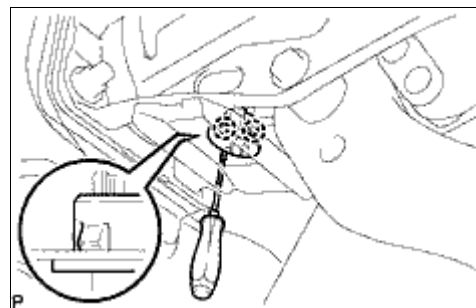
- (b) Turn the stop light switch assembly counterclockwise to remove it.

3. REMOVE STOP LIGHT SWITCH MOUNTING ADJUSTER

- (a) Using a screwdriver, disengage 2 claws to remove the stop light switch mounting adjuster.

NOTICE:

The stop light switch mounting adjuster must not be reused.



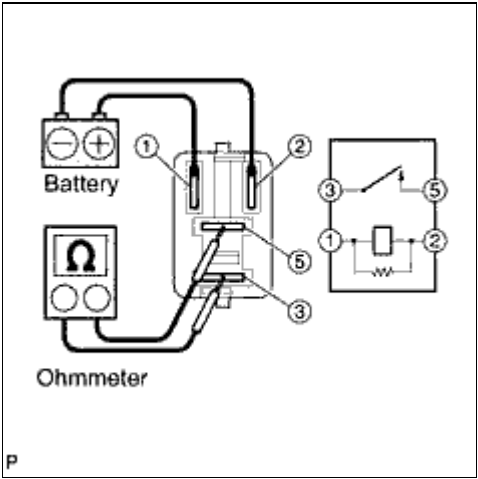
Last Modified: 11-13-2015	6.6 G	Doc ID: RM000001PJF00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: TOWING TAIL RELAY: INSPECTION; 2016 MY Tacoma [08/2015 -]		

INSPECTION

1. INSPECT TOWING TAIL RELAY

- (a) Check the resistance.
- (1) Using an ohmmeter, measure the resistance between the terminals.
- Standard:

TESTER CONNECTION	SPECIFIED CONDITION
3-5	10 kΩ or higher
3-5	Below 1 Ω (When battery voltage applied to terminals 1 and 2)



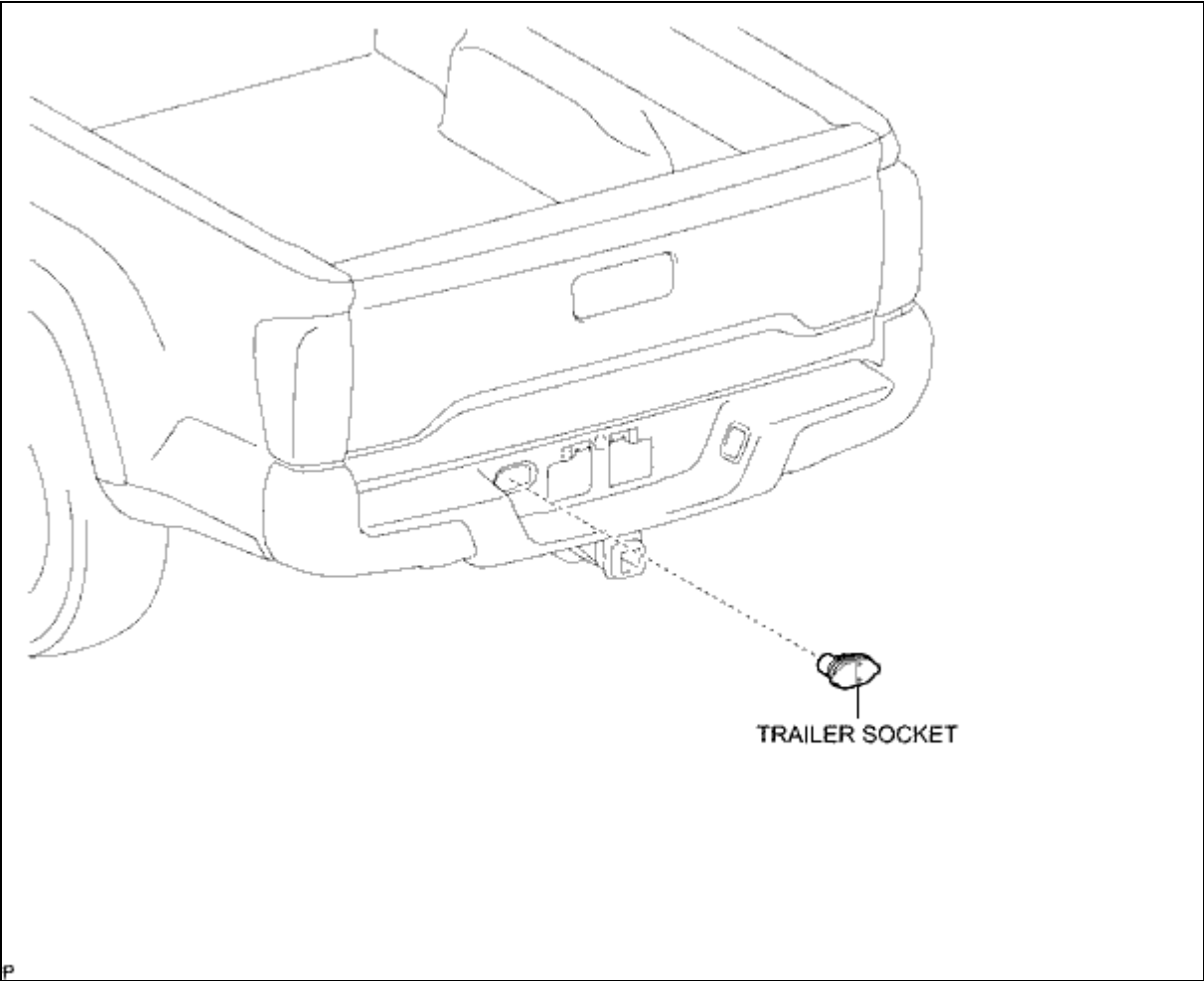
If the result is not as specified, replace the towing tail relay.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000017EK00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: TRAILER SOCKET: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



P



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000017EJ00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: TRAILER SOCKET: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

1. INSTALL TRAILER SOCKET

- (a) Engage the 2 clips to install the trailer socket.
- (b) Connect the connector.

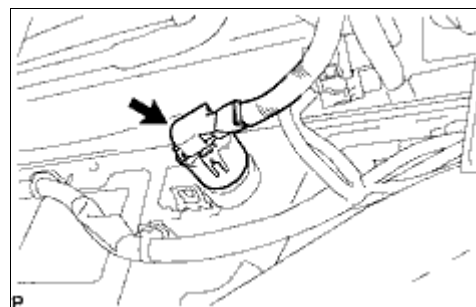


Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000017EL00AX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: TRAILER SOCKET: REMOVAL; 2016 MY Tacoma [08/2015 -]		

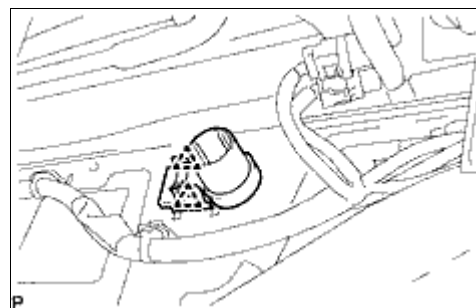
REMOVAL

1. REMOVE TRAILER SOCKET

(a) Disconnect the connector.



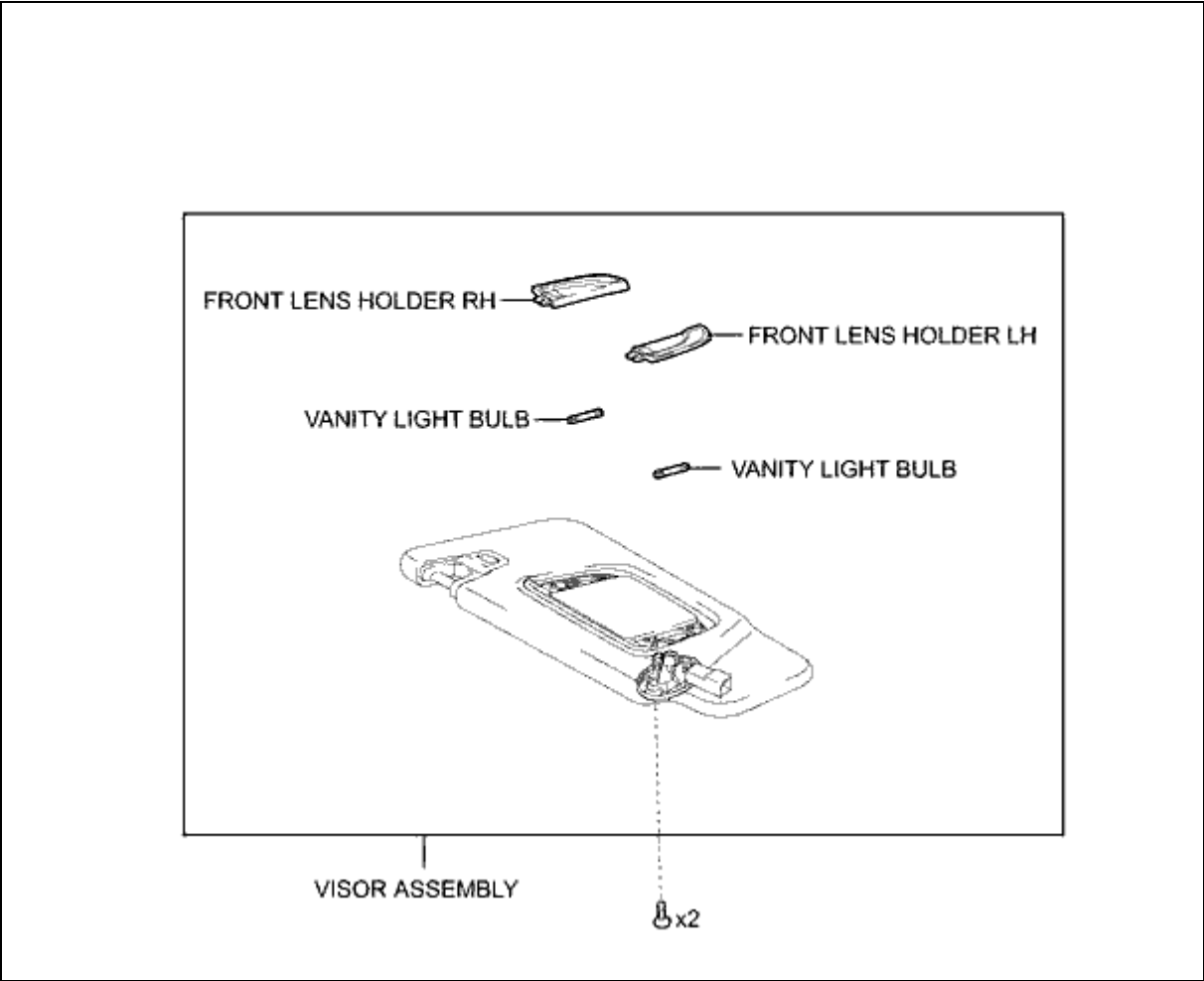
(b) Disengage the 2 clips to remove the trailer socket.



Last Modified: 11-13-2015	6.6 K	Doc ID: RM0000038V800PX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: VANITY LIGHT: COMPONENTS; 2016 MY Tacoma [08/2015 -]		

COMPONENTS

ILLUSTRATION



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000038V600PX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: VANITY LIGHT: INSTALLATION; 2016 MY Tacoma [08/2015 -]		

INSTALLATION

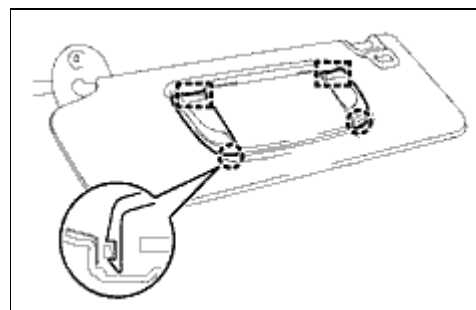
HINT:

- Use the same procedures for the LH and RH side.
- The procedures listed below are for the LH side.

1. INSTALL VANITY LIGHT BULB

- (a) Install the 2 vanity light bulbs to the visor assembly.

- (b) Engage the 2 guides and 2 claws to install the front lens holder LH and front lens holder RH.



2. INSTALL VISOR ASSEMBLY

- (a) Connect the connector.
- (b) Engage the clip to install the visor assembly.
- (c) Install the 2 screws.
- (d) Engage the guide to install the visor shaft.



Last Modified: 11-13-2015	6.6 A	Doc ID: RM0000038V900PX
Model Year Start: 2016	Model: Tacoma	Prod Date Range: [08/2015 -]
Title: LIGHTING: VANITY LIGHT: REMOVAL; 2016 MY Tacoma [08/2015 -]		

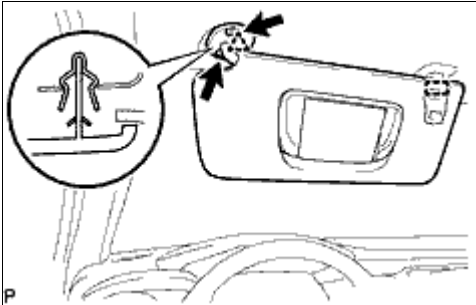
REMOVAL

HINT:

- Use the same procedures for the LH and RH side.
- The procedures listed below are for the LH side.

1. REMOVE VISOR ASSEMBLY

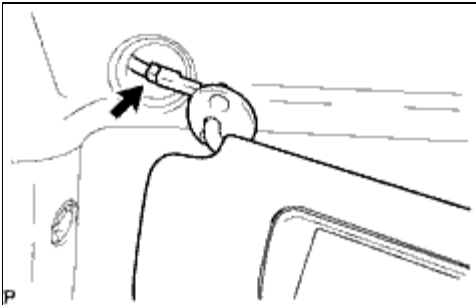
(a) Disengage the guide to separate the visor shaft.



(b) Remove the 2 screws.

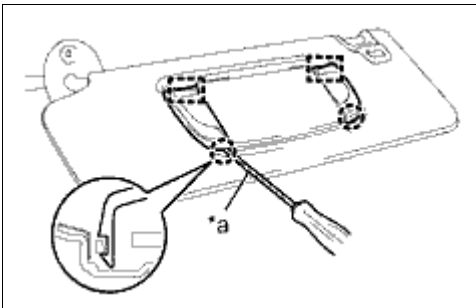
(c) Disengage the clip to separate the visor assembly.

(d) Disconnect the connector to remove the visor assembly.



2. REMOVE VANITY LIGHT BULB

(a) Using a screwdriver with its tip wrapped in protective tape, disengage the 2 claws and 2 guides to remove the front lens holder LH and front lens holder RH.



Text in Illustration

*a	Protective Tape
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(b) Remove the 2 vanity light bulbs from the visor assembly.

