

Toyota Camry

2017

Frameless® EC Mirror w/ Compass &amp; HomeLink®

Part Number: 00016-05464

Accessory Code: ME4010

Note: This accessory requires replacement A-Pillar clip 62217-06050 to complete the installation for this vehicle.



## Conflicts

Note: **Factory HomeLink**

### Kit Contents

Item #	Quantity Req'd.	Description
1	1	Frameless® Mirror w/Compass & HomeLink®
2	1	Wire Harness Cover
5	1	Main Power Wire Harness

### Hardware Bag Contents

Item #	Quantity Req'd.	Description
1	3	Red T-Taps
2	10	Wire Ties
3	6	Foam Tapes
4	1	Quick Reference Guides

### Additional Items Required For Installation

Item #	Quantity Req'd.	Description
1	1	A-Pillar Clip (62217-06050)

### Recommended Tools

<b>Safety Tools</b>	
Safety Glasses	
<b>Special Tools</b>	
<b>Installation Tools</b>	
Needle Nose Pliers	10mm Socket
Screw Gun	Torque Wrench-48inch lbs (Car Battery)
T20 Torx Bit/Driver	Ratchet/Driver
#2 Phillips Bit	Torque Wrench-15.5 inch lbs
Nylon Tool	
Dark Towel/ Cloth	
<b>Special Chemicals</b>	

### Service Part Numbers

Part Description	Part Number
Frameless® EC Mirror w/Compass and HomeLink®	00016-05464-01
Main Power Wire Harness	00016-05464-02
A-Pillar Clip	62217-06050

### General Applicability

All Vehicles Except Factory Installed HomeLink.

### Recommended Sequence of Application

Item #	Accessory	
1		
2		
3		

\*Mandatory

### Legend

	<b>STOP:</b> Damage to the vehicle may occur. Do not proceed until process has been complied with.
	<b>OPERATOR SAFETY:</b> Use caution to avoid risk of injury.
	<b>CAUTION:</b> A process that must be carefully observed in order to reduce the risk of damage to the accessory/vehicle and to ensure a quality installation.
	<b>TOOLS &amp; EQUIPMENT:</b> Used in Figures calls out the specific tools and equipment recommended for this process.
	<b>REVISION MARK:</b> This mark highlights a change in installation with respect to previous issue.
	<b>SAFETY TORQUE:</b> This mark indicates that torque is related to safety.

### SPECIAL NOTE: Installation Sequences

After TMS and Safety mandated preparatory steps have been taken, the installation sequence is the suggested method for completing the accessory installation. In some instances the suggested sequence is written for one associate to install and in others the sequence is given as part of a team accessory installation. Unless otherwise stated in the document, the associates may perform the installation steps in any order to make the installation as efficient as possible while maintaining consistent quality.

Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation.

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:

- Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.).
- Safety (eye protection, rechecking torque procedure, etc.).
- Vehicle Disassembly/Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

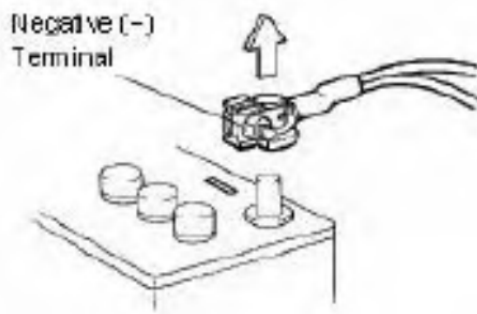


Figure 1a

1. Disconnect the negative battery cable. Isolate the cable with protection in place. See Figure 1a.



Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

**Note Hybrid Models:** Remove the battery cover from the passenger's side luggage compartment to gain access. See figure 1b.



Figure 1b

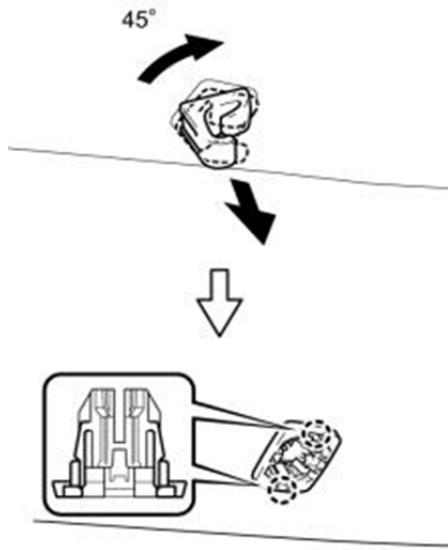


Figure 2

2. Remove the driver side visor holders. Turn the holder clockwise approximately 45° and pull it as shown in the illustration. Detach the 2 claws and remove the visor holder. See Figure 2

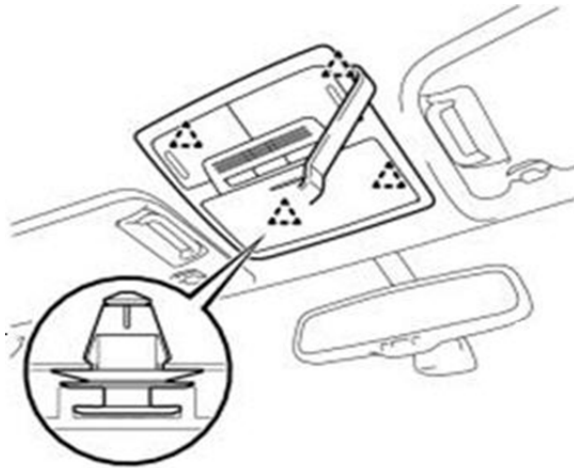
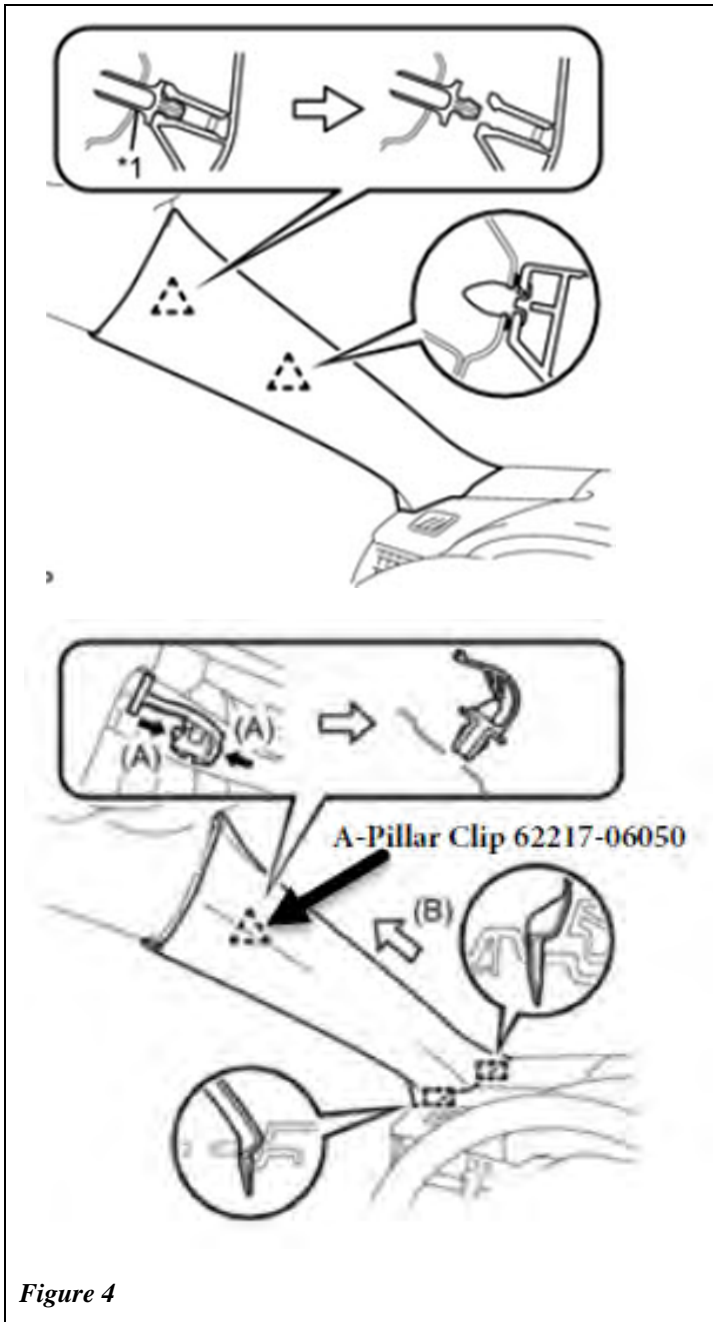


Figure 3

3. Detach the 4 clips. Disconnect the connector to remove the roof console box. See Figure 3.



4. Pull the upper part of the garnish toward the inside of the cabin and disengage the garnish from the base of the 2 clips. See figure 4.

**HINT: Make the A-Pillar garnish LH hang down from the front pillar garnish clip.**

While pushing the tabs on the A-Pillar garnish clip in the direction indicated by the arrow (A) shown in the illustration, disengage the A-Pillar garnish clip.

Remove the front upper garnish clip.

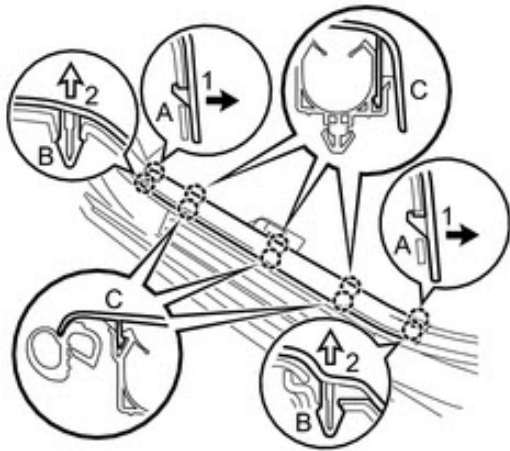
**This clip CAN NOT be reused.**

**DESTROY and DISPOSE** of clip. See figure 4.



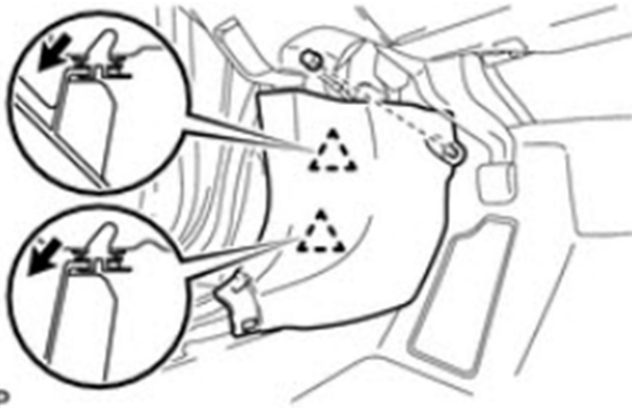
**NOTE: Install a new A-Pillar garnish clip when replacing A-Pillar garnish at the end of installation. A-Pillar clip 62217-06050 is not provided in the mirror kit. This item must be ordered separately.**

**NOTICE: Do not apply excessive force using a tool.**



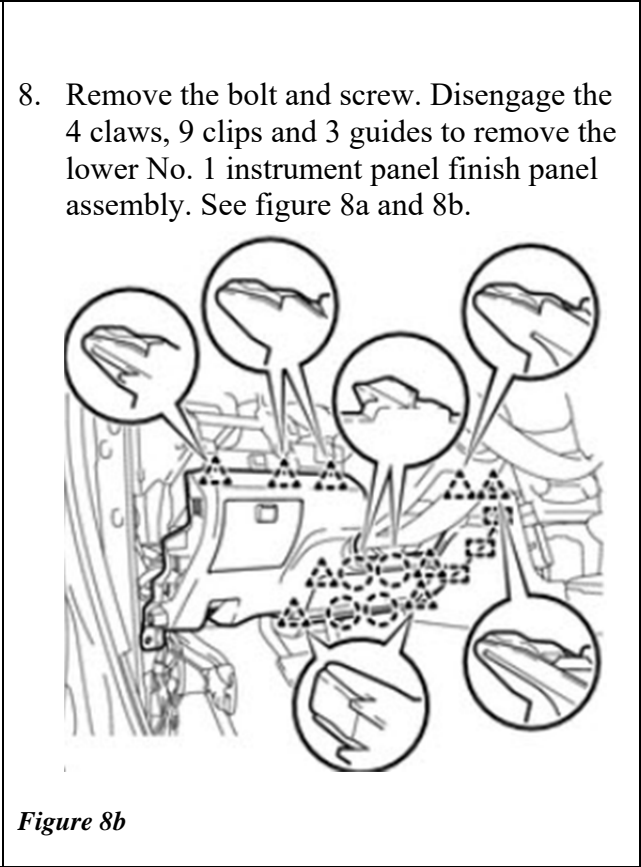
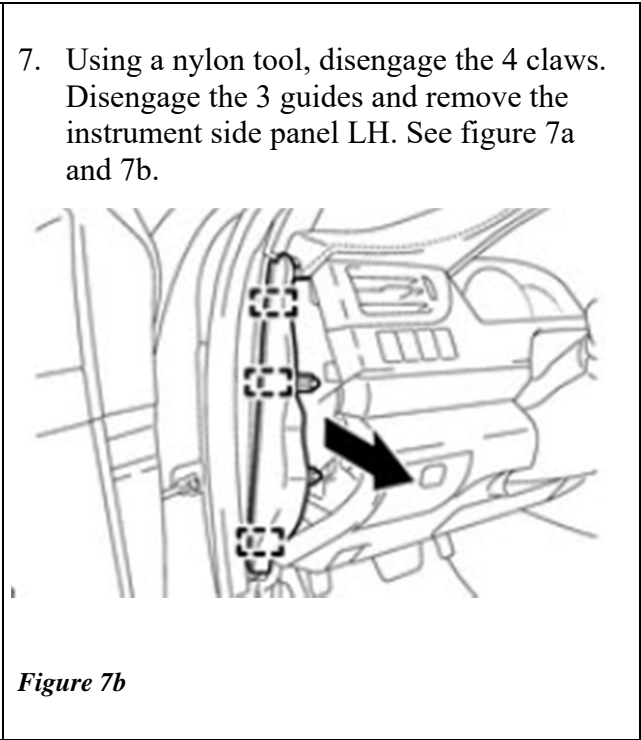
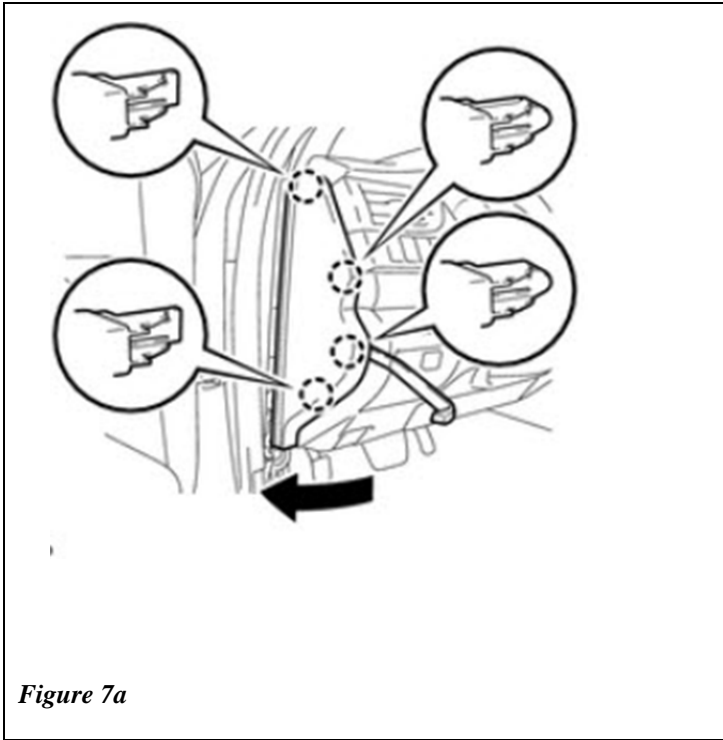
5. Disengage the 2 claws (A) in the direction indicated by the arrows (1) shown in the illustration. Disengage the 2 claws (B) in the direction indicated by the arrows (2) shown in the illustration. Disengage the 6 claws (C) to remove the front door scuff plate LH. See Figure 5.

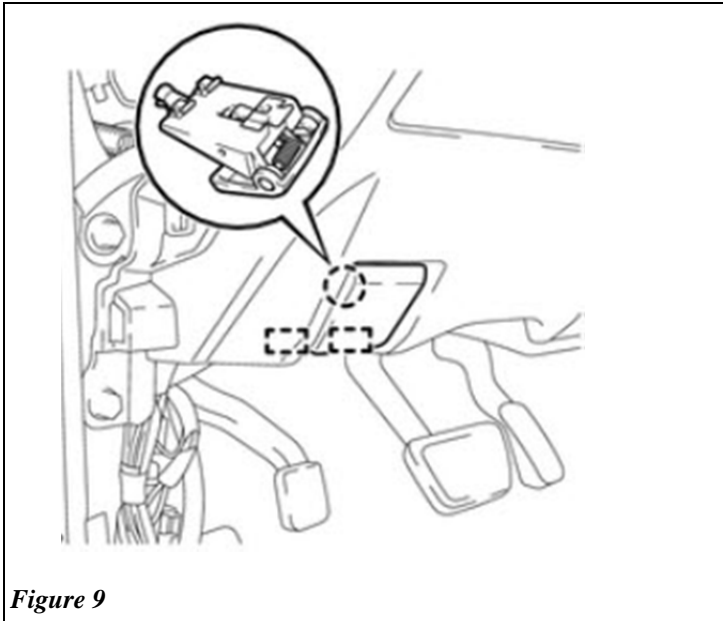
Figure 5



6. Remove the clip. Disengage the 2 clips and remove the cowl side trim sub-assembly LH. See figure 6.

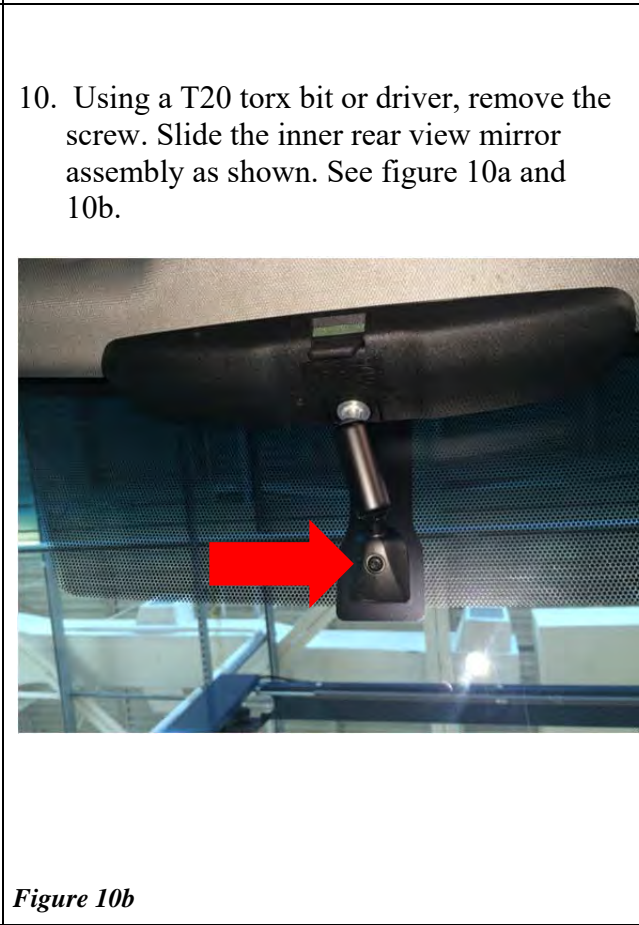
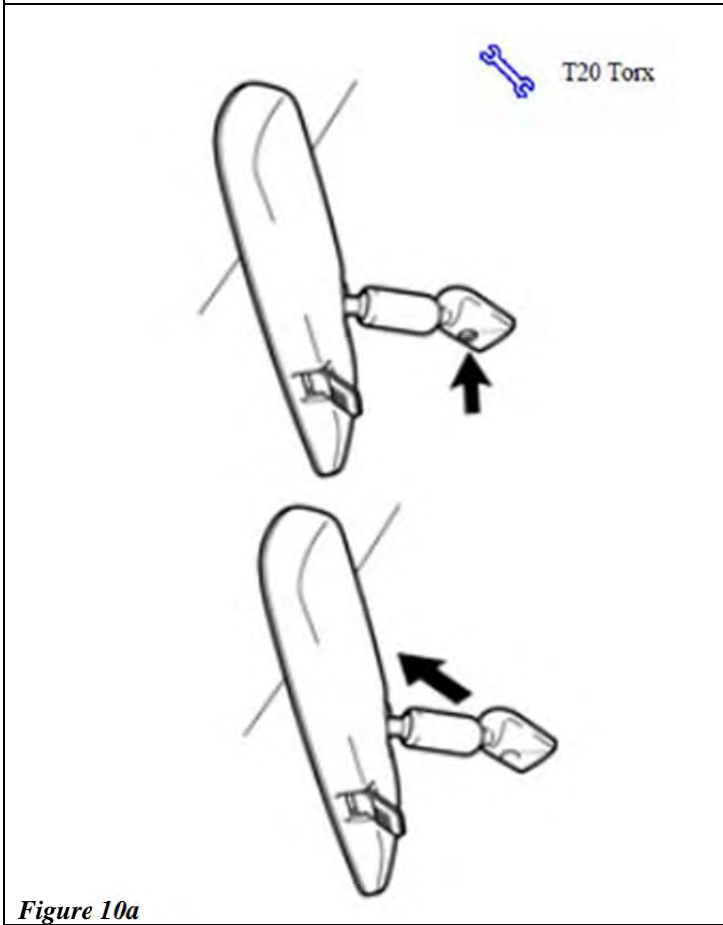
Figure 6





9. Disengage the claw and 2 guides to disconnect the hood lock control lever sub-assembly. See figure 9.

Figure 9



10. Using a T20 torx bit or driver, remove the screw. Slide the inner rear view mirror assembly as shown. See figure 10a and 10b.

Figure 10b

Figure 10a



Figure 10c



Figure 10d

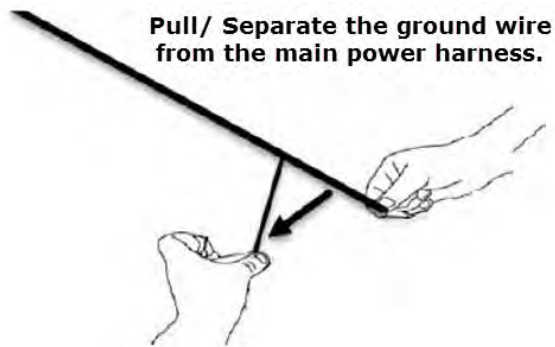
**Vehicles Equipped with Lane Departure (LDS) System- Cover Removal .**

Disengage the 3 claws and 2 guides to remove the No. 2 lane departure warning camera cover as shown in the illustration. See figure 10c.

**NOTICE: Detaching the claws one at a time may cause them to become damaged. Therefore, even if one of the claws is detached, make sure to reattach it before detaching both claws at the same time.**

Pull the No. 1 lane departure warning camera cover as shown in the illustration to disengage the 2 clips and 2 guides, and remove the No. 1 lane departure warning camera cover. See figure 10d.





11. Pull/Separate the ground wire from the main power harness approximately 46 inches. See figure 11.

Figure 11



Note: Remove fingerprints, smudges, dirt, etc. from mirror and windshield with glass cleaner.

12. Mount Framless® mirror in reverse of original factory mirror removal. Slide and attach the rearview mirror assembly and tighten mirror set screw with a T20 torx bit or driver. DO NOT over tighten screw. See figure 12a and 12b.

Torque: 15.5 in.\*lbf



Do not use power tools to tighten screw. Hands tighten only.

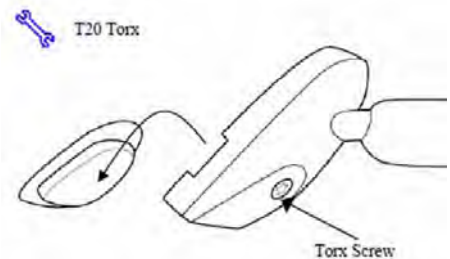


Figure 12a

Figure 12b

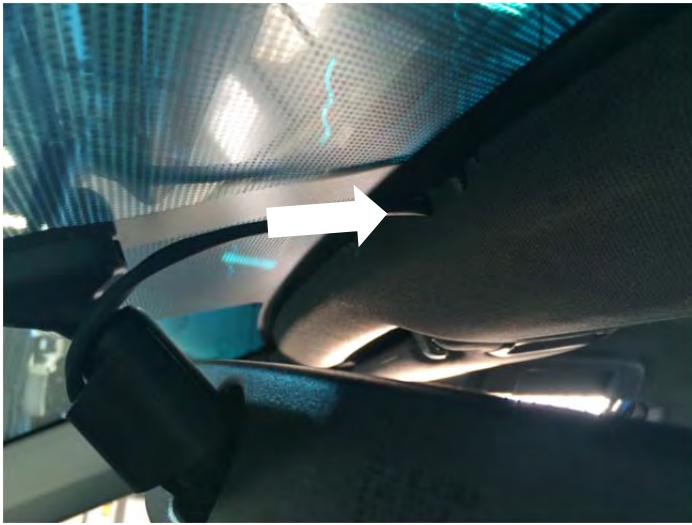


Figure 13

13. Route the mirror harness to overhead console opening using the precut notches on the front of the headliner. See figure 13.

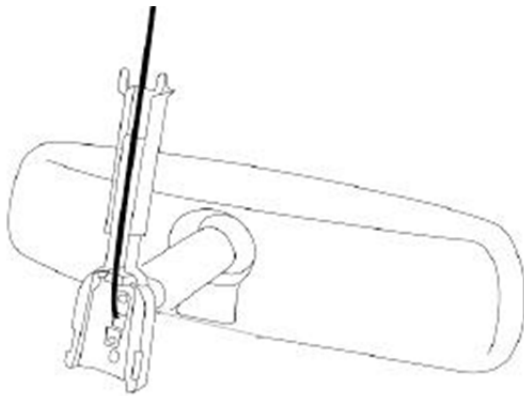


Figure 14a

14. Install the short wire harness cover over the wire harness. Seat the bottom of the cover securely to base of the mirror. Extend the top of the cover fully into headliner. See figure 14a and 14b.



Figure 14b



Figure 14c



Figure 14d

**Vehicles Equipped with Lane Departure (LDS) System- Cover Installtion.**

Engage the 2 guides and 2 clips as shown in the illustration to install the No. 1 lane departure warning camera cover. See figure 14c.

Engage the 2 guides and 3 claws as shown in the illustration to install the No. 2 lane departure warning camera cover. See figure 14d.

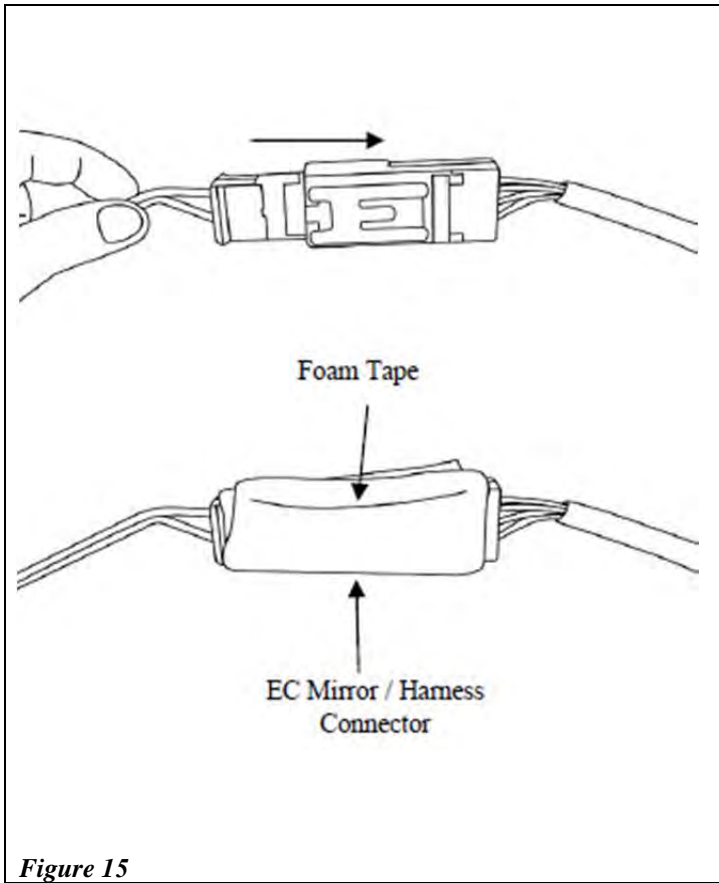


Figure 15

15. Connect the mirror harness to the mirror main power harness. Make sure both connectors are fully engaged. Wrap foam tape around connectors. See figure 15.

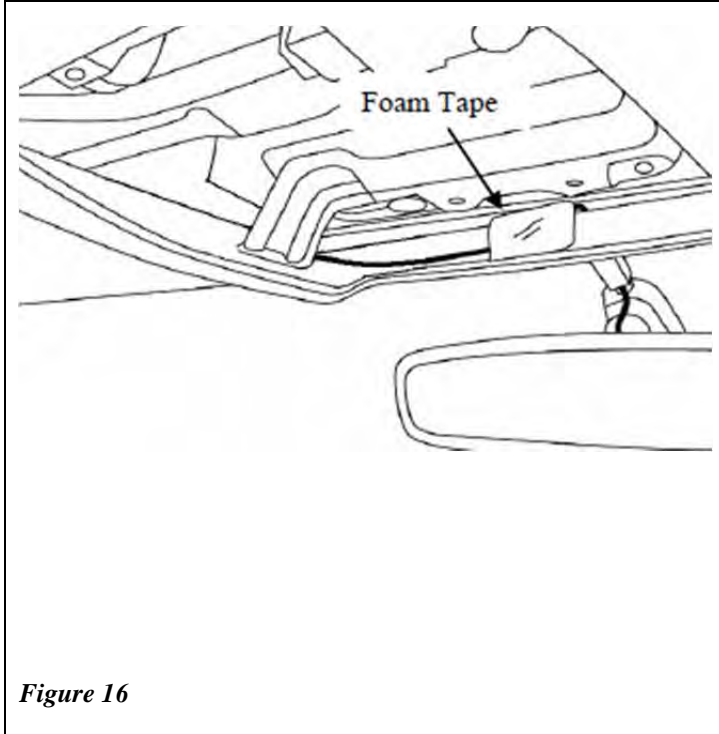
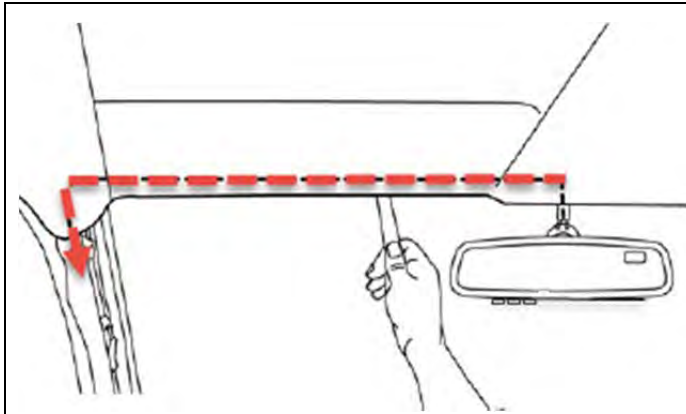


Figure 16

16..Secure the harness to the front center of the headliner with one (1) piece of foam tape. See figure 16.



17. Route mirror main power harness along front edge of headliner towards the LH vehicle A-Pillar. See figure 17.

*Figure 17*



18. Route the mirror harness down to the bottom of the A-Pillar. Route the harness through the factory harness clips attached to the vehicle. Wire tie the harness to the vehicle harness as shown. See figure 18.

*Figure 18*



Figure 19a

19. Locate vehicle connector IS1 in the LH A-Pillar. Disconnect connector and pull the factory tape back. See figure 19a and 19b.

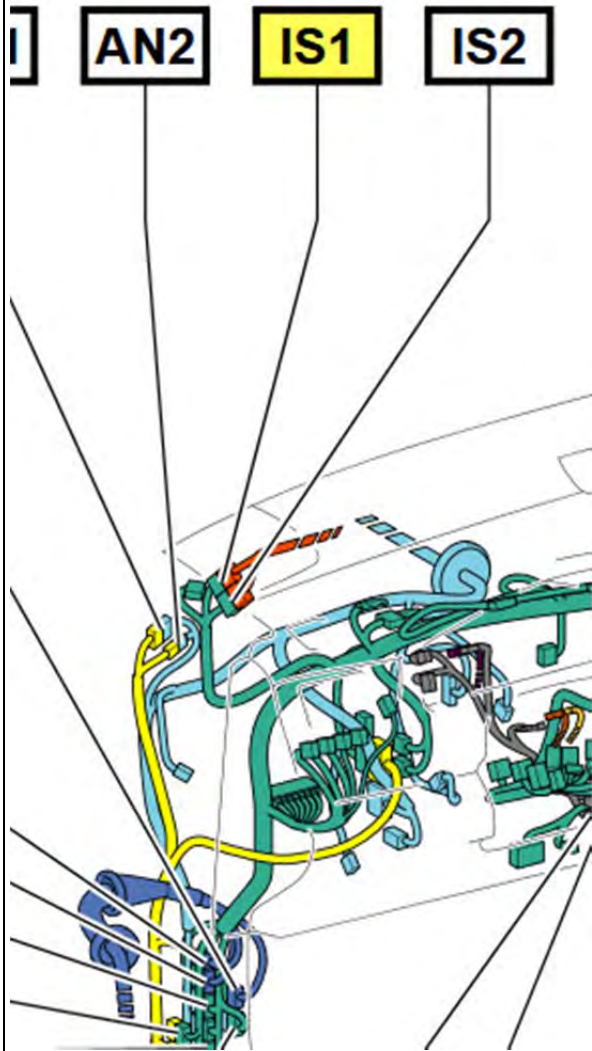
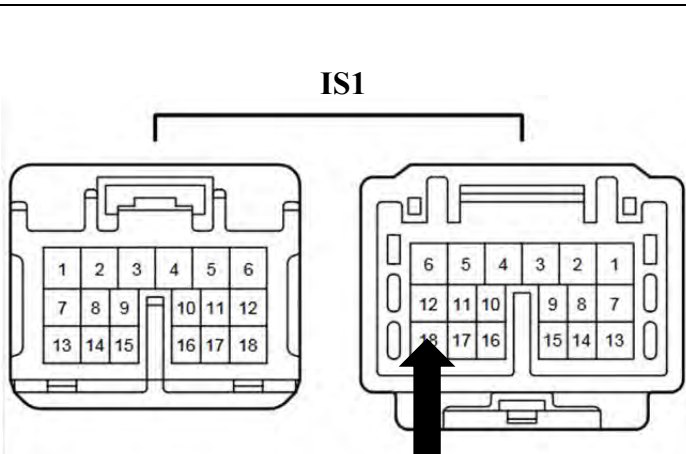


Figure 19b



**T-Tap the mirror main power harness ground wire (black/orange) to Pin 18 white/black wire in white connector IS1.**

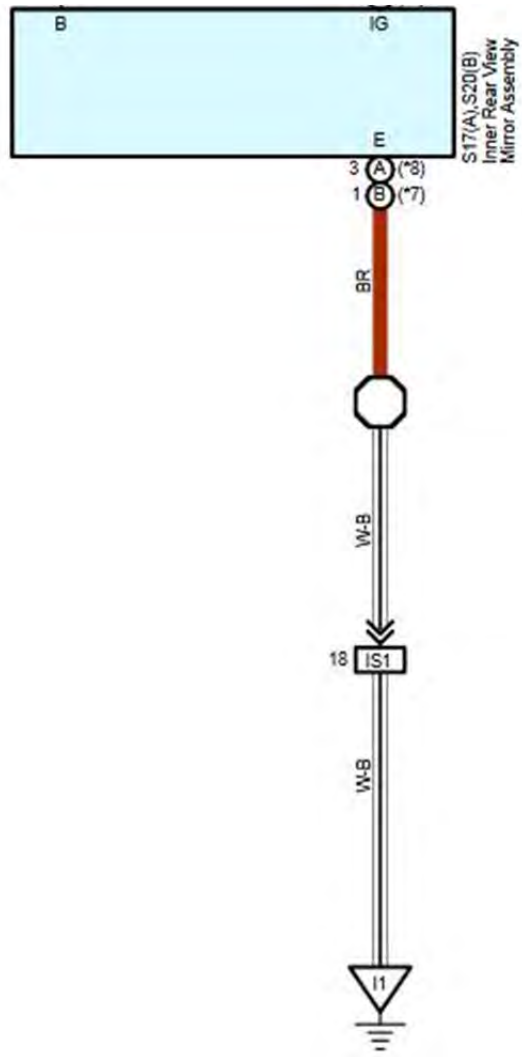


Figure 20a

20. T-Tap the mirror main power harness ground wire (black/orange) to Pin 18 white/black wire in white connector IS1. See figure 20a. Bundle any excess wire and secure to the OE harness using a wire tie.

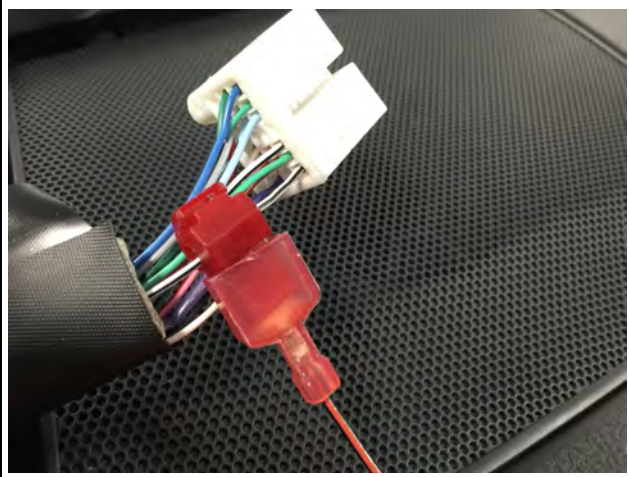
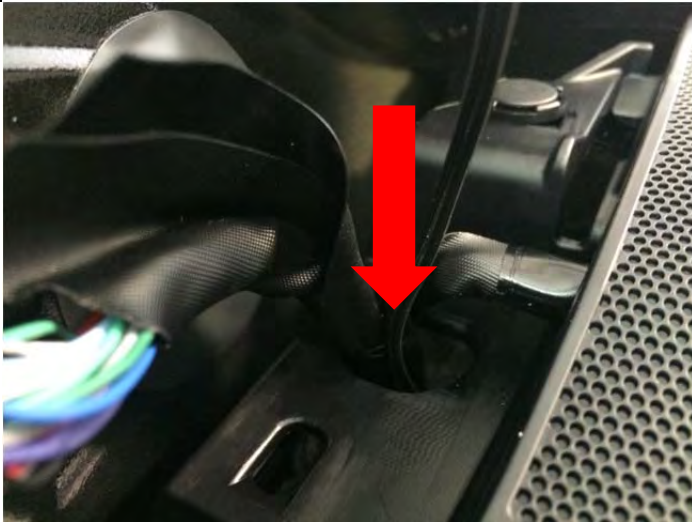
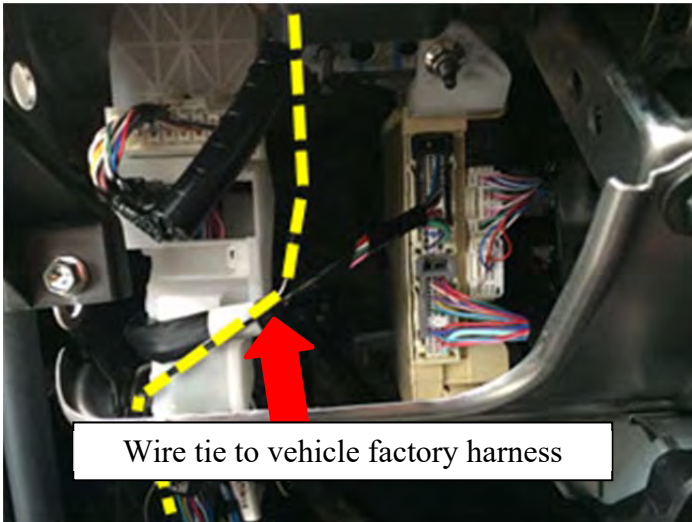


Figure 20b



21. Route the mirror main harness power wires to the vehicle LH kick panel following the factory harness. See figure 21.

Figure 21



22. Make sure to follow the factory harness to the kick panel. Secure the mirror main power harness to the vehicle harness as shown at the ECU with wire ties. Make sure the harness is away from the emergency brake pedal. See figure 22.



**Make sure the harness is away from the emergency brake pedal.**

Figure 22



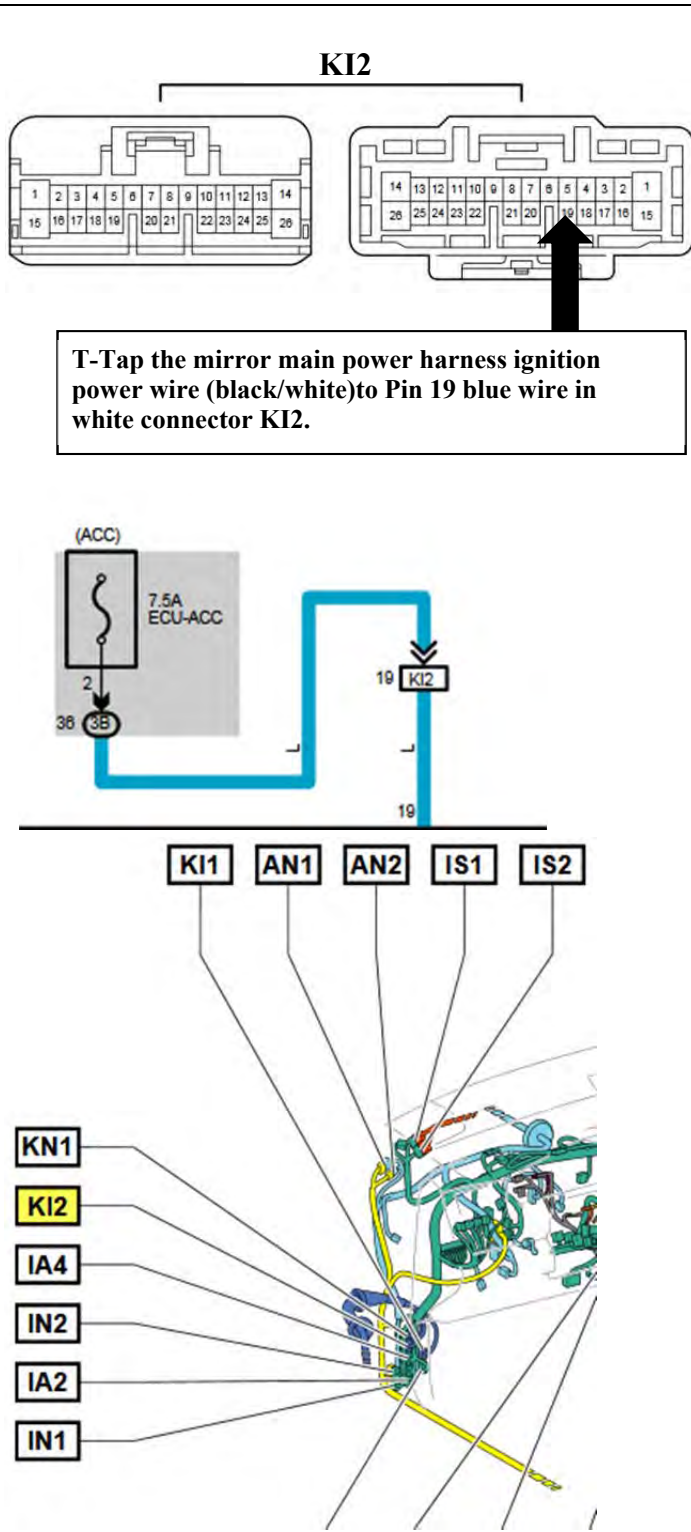
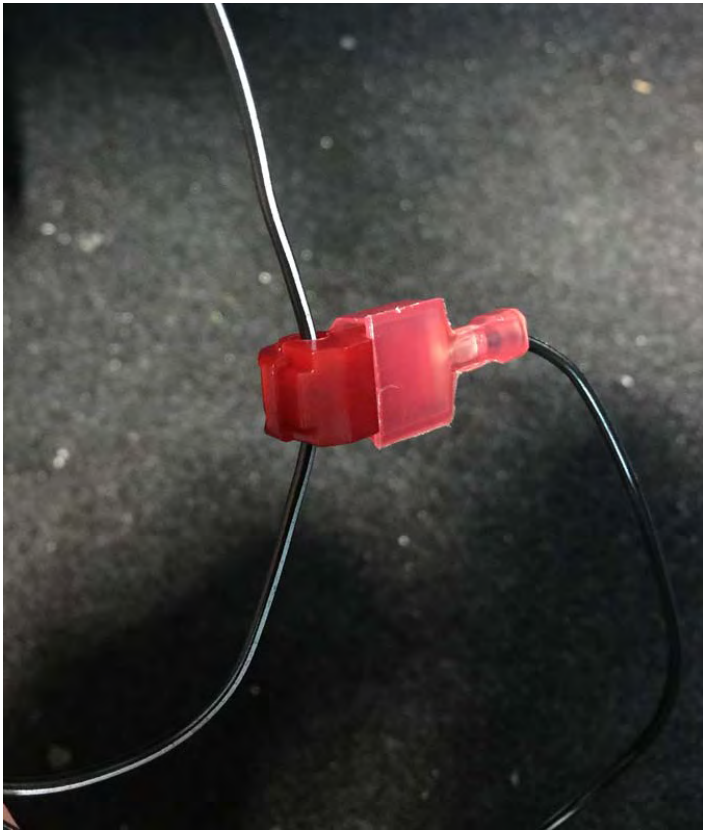


Figure 23a

23. T-Tap the mirror main power harness ignition power wire (black/white) to Pin 19 blue wire in white connector KI2. see figure 23a.



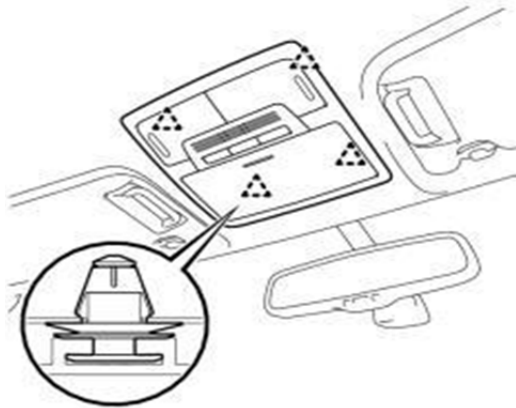
Figure 23b



*Figure 24*

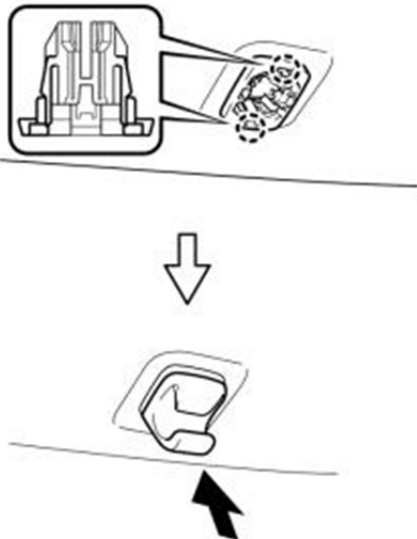
24. T-Tap the mirror main power harness power wire (black) to the mirror main power harness ignition wire (black/white). See figure 24.

25. Bundle any excess wire and secure to the OE harness using wire ties.



26. Connect the connector. Engage the 4 clips and install the roof console box. See Figure 26.

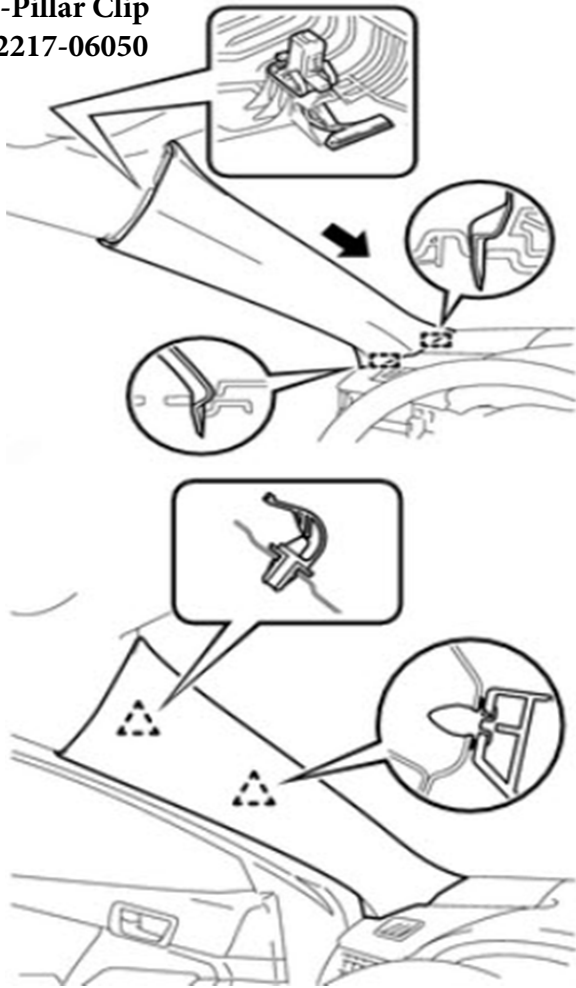
Figure 26



27. Engage the two claws. Push in the visor holder to install as shown in figure 27.

Figure 27

**A-Pillar Clip  
62217-06050**



*Figure 28*

28. Install the New A-Pillar garnish clip to A-Pillar garnish LH. Engage the 2 guides as shown in the illustration. See figure 28.

**HINT: Install the new A-Pillar garnish clip 62217-06050 so that it faces as shown in the illustration.**

Engage the 2 clips to install the A-Pillar garnish LH. See figure 28.



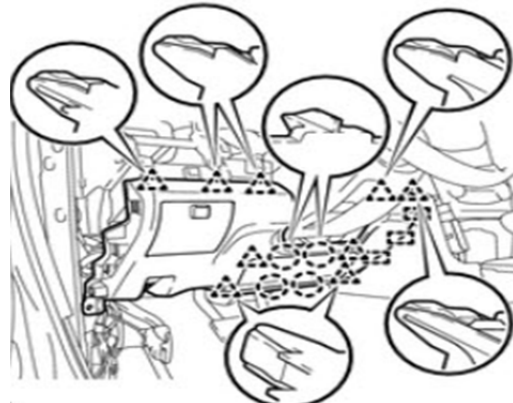
**NOTE: Install a new A-Pillar garnish clip when installing garnish. DO NOT reuse the old clip. THE CLIP MUST BE REPLACED.**

**A-Pillar clip 62217-06050 is not provided in the mirror kit. This item must be ordered separately.**

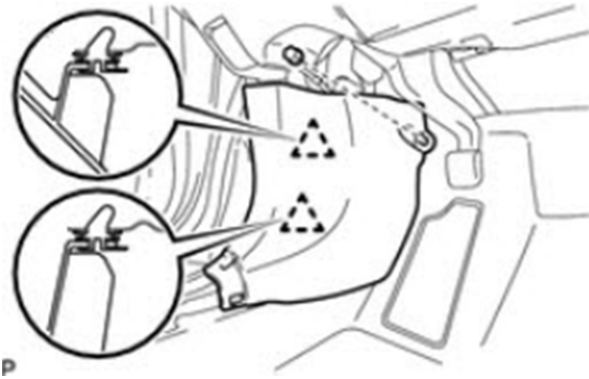


*Figure 29a*

29. Engage the 4 claws, 9 clips and 3 guides and install the lower No. 1 instrument panel finish panel assembly and cable. See figure 29a and 29b.

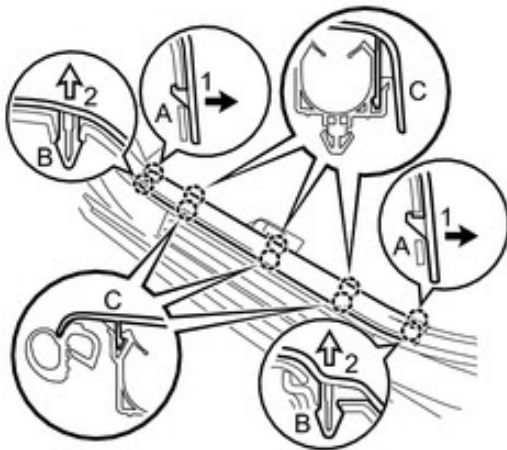


*Figure 29b*



30. Engage the 2 clips and install the cowl side trim sub-assembly LH. Install the clip. See figure 30.

Figure 30



31. Engage the 10 claws to install the front door scuff plate LH. See figure 31.

Figure 31

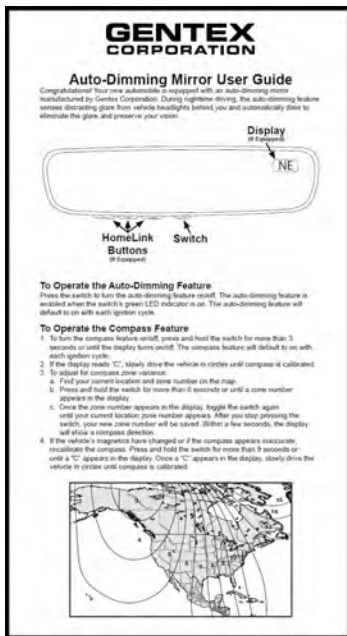


Figure 32

32. Place owner’s cards in the glove box. See figure 32.

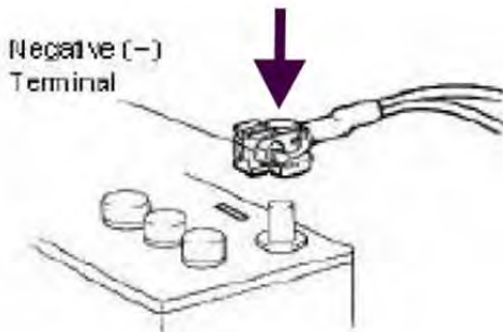


Figure 33

33. Connect the negative battery cable.

**S** Torque: 48in.\*lbf

**Note Hybrid Models:** Install the passenger’s side luggage compartment battery cover.

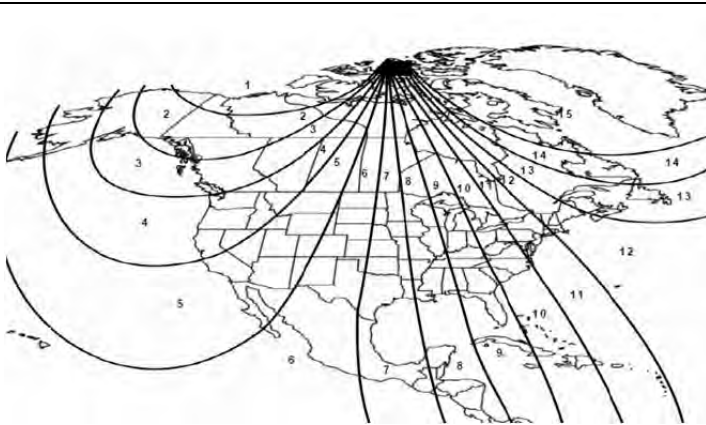


Figure 34

### 34. Compass Zone Setting

(a) With display turned ON, push the mirror power button for 3 seconds or until a number is displayed in the display window.

(b) Refer to the Zone Map and toggle button until correct zone is displayed. See figure 34.

(c) Release button.

(d) The display will return to normal compass mode (showing either a "C" or a directional heading) within 10 seconds of no switch activity.

### 35. Calibrate Compass

(a) If a "C" is displayed in window, drive the vehicle in one circle at less than 5 mph.

(b) Correct compass heading should now be displayed.

**NOTE:** Correct compass zone must be selected prior to compass calibration to ensure accurate calibration. If the vehicle is driven in a new zone, repeat zone selection procedure.

**Toyota Camry Frameless® EC Mirror w/ Compass & HomeLink®**

Checklist - these points **MUST** be checked to Ensure a quality installation.

**Check: After Installation**

- Vehicle should be in a fairly well lit area. Turn ignition (ACC power) to ON.

**Auto-dimming feature:**

- Cover the forward-looking light sensor (located on the back of the mirror).

**Mirror clears:**

- Remove cover from photocell.

**Compass Feature:**

- Look at the mirror compass display.

- Operation Instruction Cards.

**HomeLink Feature:**

- Look at the mirror's (3) HomeLink buttons.

- Press the mirror's (3) HomeLink buttons.

**Overhead Console:**

- Check dome light.

- Check the Sunroof if applicable

**Hood Release:**

- Check the hood release lever.

**Look For:**

Verify green LED is on. If it is not ON press ON / OFF button - confirm LED is ON.

Verify mirror darkens.

Mirror returns to clear state.

Correct compass heading should now be displayed. If a "C" is displayed in window, calibrate the compass.

Place in the vehicle glove box.

Verify all (3) buttons are illuminated when the vehicle ignition is ON.

HomeLink icon will appear in mirror. Press button again to stop the icon from flashing.

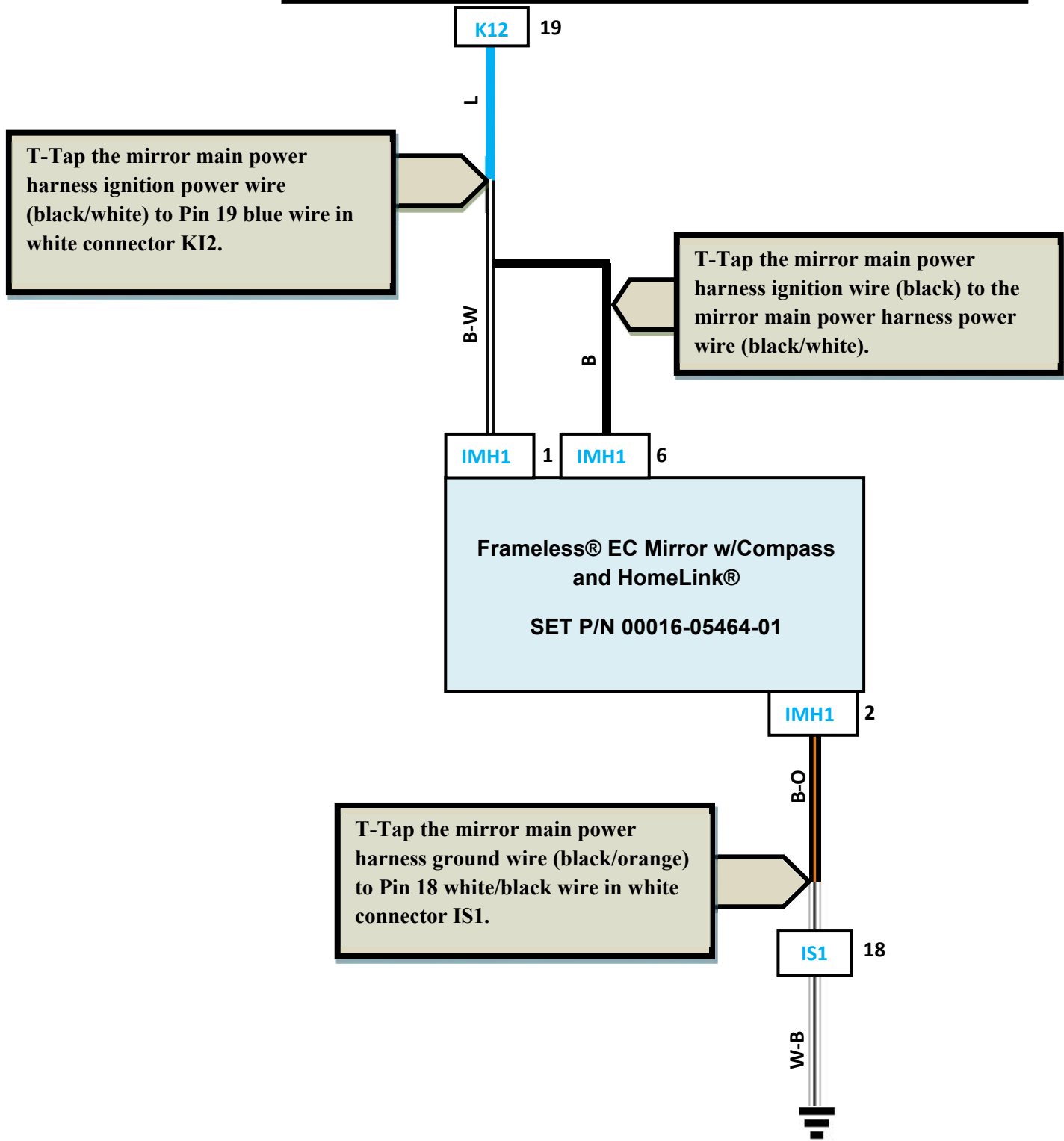
Verify the dome light functions properly.

Verify the sunroof functions properly.



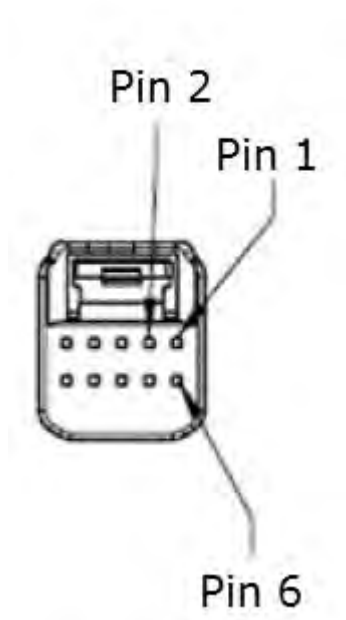
**Block Diagram**  
**Frameless® EC Mirror w/Compass & HomeLink®**

**Applies to SET P/N 00016-05464**      **2017 Camry**



## Checking the Harness Pin outs:

### Connector IMH1: Frameless® EC Mirror w/Compass Power Harness Connector



**Connector view is from the front (pin side)**

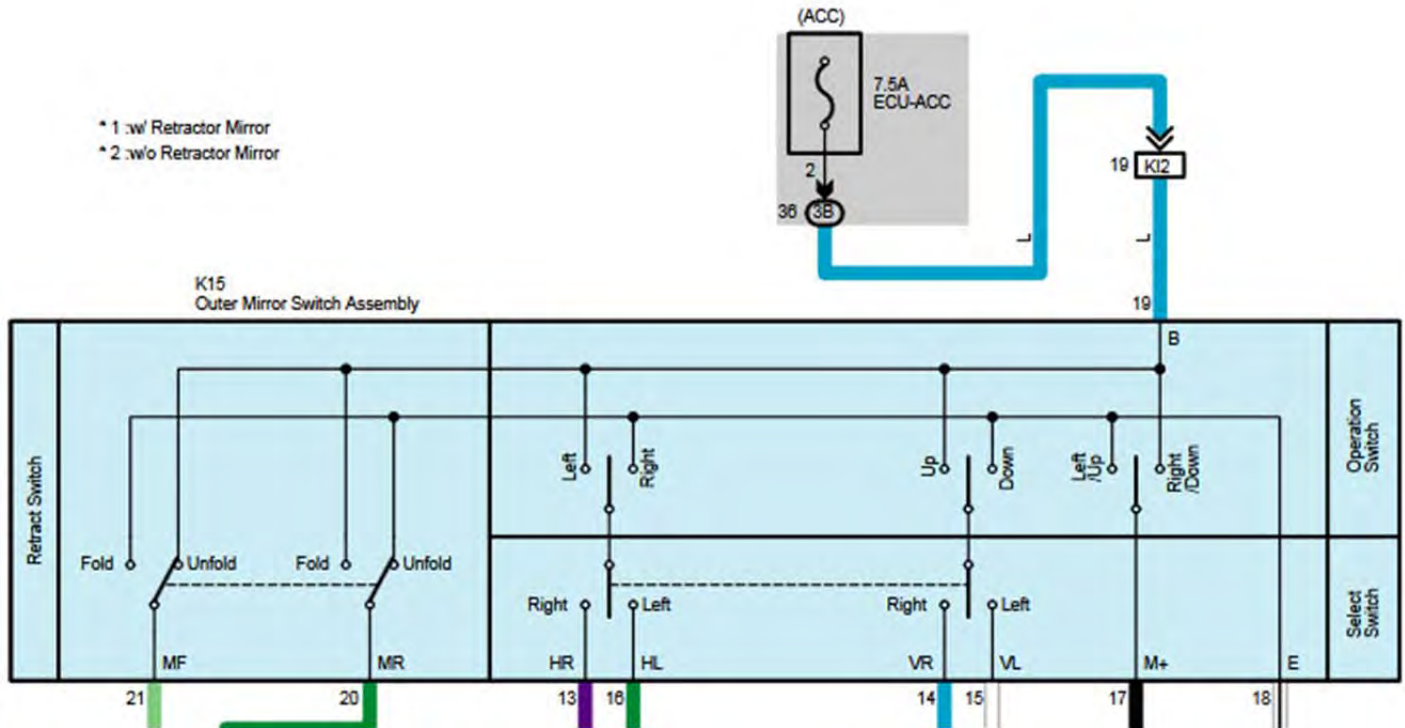
**If feedback from the harness on any of the pins does not match the results shown in the Proper Operation field below, check the connection to the vehicle wiring and re-test.**

Pin	Wire Color	Test Reference	Proper Operation
1	Black w/White Trace	Pin 1 to ground	Approx. 12 VDC with switch in ON position Approx. 0 VDC with switch in OFF position
2	Black w/Orange Trace	Pin 2 to ground	Always Continuity
6	Black	Pin 3 to ground	Approx. 12 VDC with switch in ON position Approx. 0 VDC with switch in OFF position

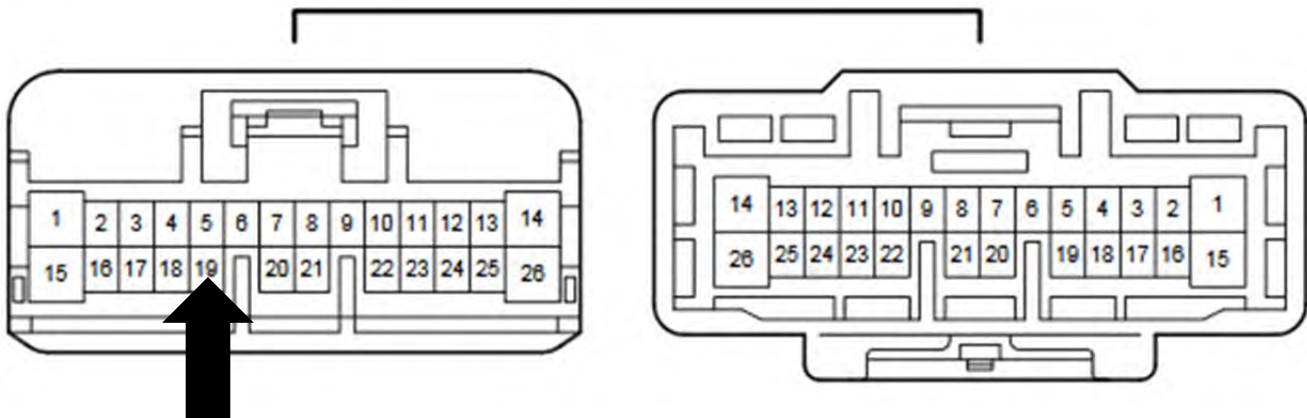
Pin	Wire Color	Circuit
1	Black w/White Trace	Ignition
2	Black w/Orange Trace	Ground
6	Black	Battery

# Vehicle Connector KI2-Power Circuit

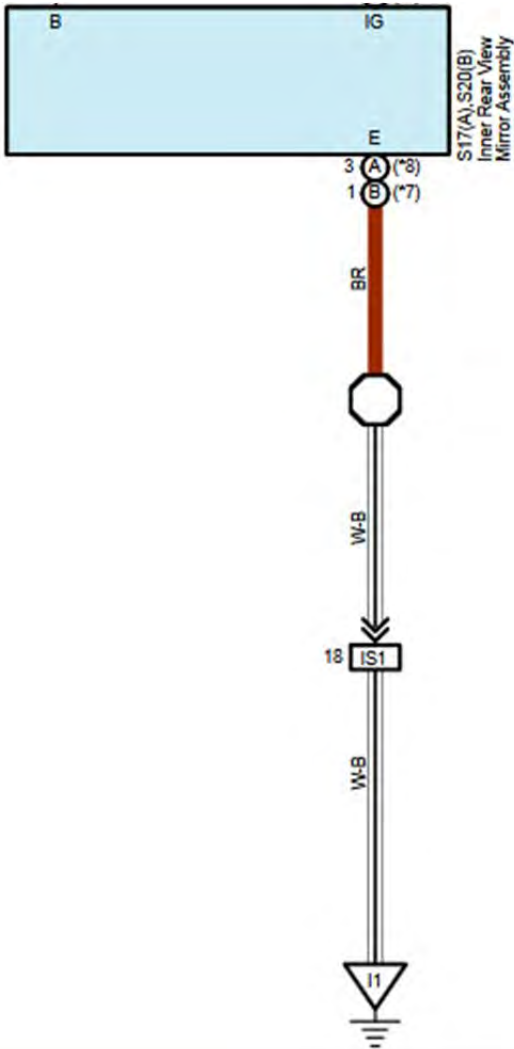
- \* 1 :w/ Retractor Mirror
- \* 2 :w/o Retractor Mirror



KI2 Connector



### Vehicle Connector IS1-Ground Circuit



IS1 Connector

