



Southeast Toyota Distributors, LLC Accessory Installation Instructions

2018 4Runner Frameless EC Mirror w/ Compass and HomeLink

| | |
|-------------------|--------------|
| Year & Model: | 2018 4Runner |
| Part Number: | 00016-05464 |
| Accessory Code: | ME4000 |
| PIO / DIO: | PIO / DIO |
| Business Partner: | L42 |

Conflicts

Vehicles with factory HomeLink

General Applicability

| |
|---------------|
| Fits Models |
| 1 2018 Models |

Additional Items Required For Installation

| | |
|-------|---|
| Item# | Description: |
| 1. | Small Wire Harness Cover (00016-05463-04) |

Sequence of Application

| | |
|-------|------------|
| Item# | Accessory: |
| 1. | N/A |

SPECIAL NOTE: Installation Sequences

After TMS & 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 & 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.

Recommended Tools

| | |
|---------------------------|-------------------------|
| Safety Tools | |
| Safety Glasses | |
| Installation Tools | Notes |
| Needle Nose Pliers | |
| Screw Gun | |
| T20 Torx Bit/Driver | |
| #2 Phillips Bit | |
| Nylon Tool | |
| Dark Towel/ Cloth | |
| 10mm Socket/Wrench | |
| Ratchet/Driver | |
| Torque Wrench | 48 in-lb and 15.5 in-lb |
| Special Chemicals | |
| N/A | |
| Special Tools | |
| N/A | |
| Safety Tools | |

Legend

| | |
|--|--|
| | STOP: Damage to the vehicle may occur. Do not proceed until process has been complied with. |
| | OPERATOR SAFETY: Use caution to avoid risk of injury. |
| | CAUTION: 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. |
| | TOOLS & EQUIPMENT: Used in Figures calls out the specific tools and equipment recommended for this process. |
| | REVISION MARK: This mark highlights a change in installation with respect to previous issue. |
| | SAFETY TORQUE: This mark indicates that torque is related to safety. |

Table of Contents

| | | |
|-------|---|-------|
| I. | Preparation..... | 1-5 |
| a.) | Table of Contents..... | 2 |
| b.) | Kit/Hardware & Wire Harness Bag Contents..... | 3 |
| c.) | Parts for Installation..... | 4 |
| d.) | Service & Warranty Information..... | 5 |
| II. | Procedures | |
| a.) | Battery Removal..... | 6 |
| b.) | Vehicle Disassembly –Installation Process..... | 6-15 |
| III. | Re-install Battery..... | 15 |
| IV. | Compass Zone Setting..... | 16 |
| V. | Calibrate Compass..... | 16 |
| VI. | Function and Quality Check..... | 17 |
| VII. | Diagnostic /Block Diagrams & Connectors Procedures..... | 18-20 |
| VIII. | Warranty Statement..... | 21-22 |

Kit/Hardware Bag Contents:

| Item # | Quantity | Description |
|--------|----------|-----------------------|
| 1. | 3 | Red T-Taps |
| 2. | 10 | Wire Ties |
| 3. | 6 | Foam Tapes |
| 4. | 1 | Quick Reference Guide |

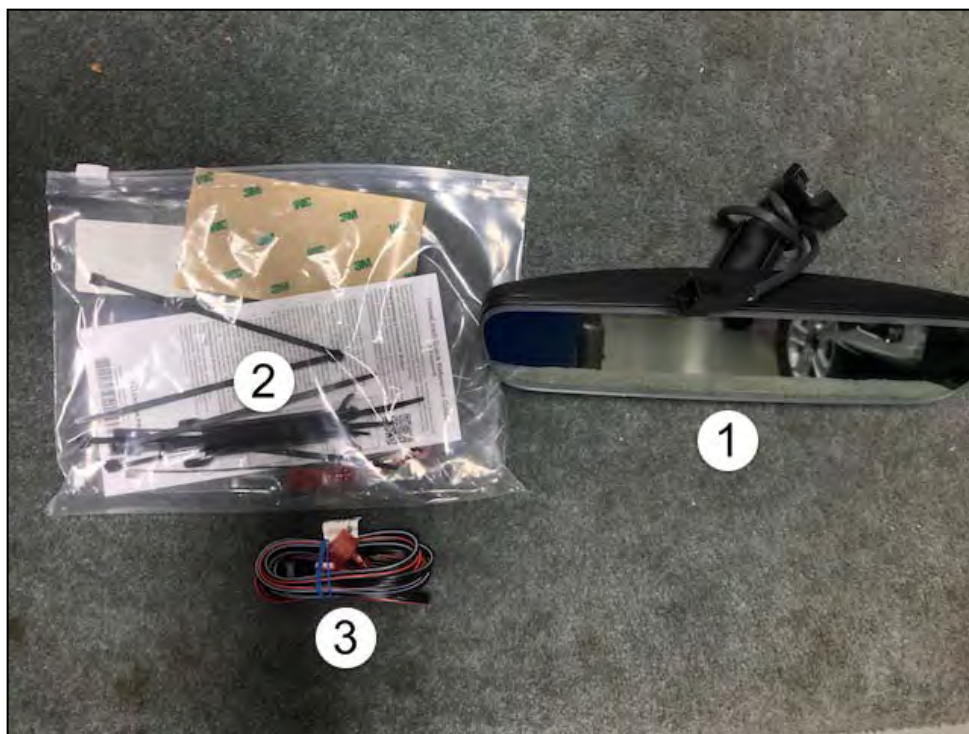
Parts for Installation:

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, re-checking torque procedure, etc.).
- Vehicle Disassembly/ Reassembly (panel removal, part storage, etc.).
- Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.).

| Item # | Quantity | Description |
|--------|----------|---------------------------------------|
| 1. | 1 | Frameless Mirror w/ Compass& HomeLink |
| 2. | 1 | Wire Harness Cover |
| 3. | 1 | Main Power Harness |



Service & Warranty Information:

| Image Key | Parts information | | Warranty Information | |
|-----------|-------------------|---------------------------|----------------------|----------------|
| | Part Number | Description | Warranty Time | Labor Op. Code |
| A | 00016-05464 | EC Mirror w/ Comp. and HL | 0.5 | AHM001 |
| B | 00016-35463-04 | Mirror Wire Cover | 0.1 | AHM002 |

If you are a dealer located outside of the Southeast Region, please contact the SET Accessory Warranty Department at (888) 851-2722 or email Accessory.Warranty@SETToyota.com for claim payment instructions.

Image:

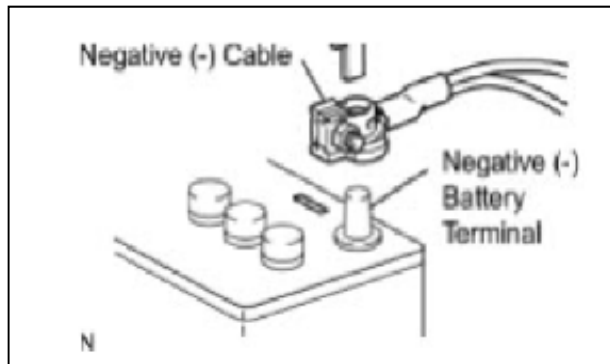


Figure 1

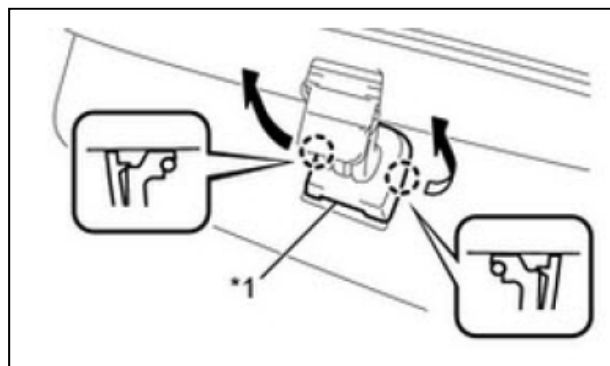


Figure 2

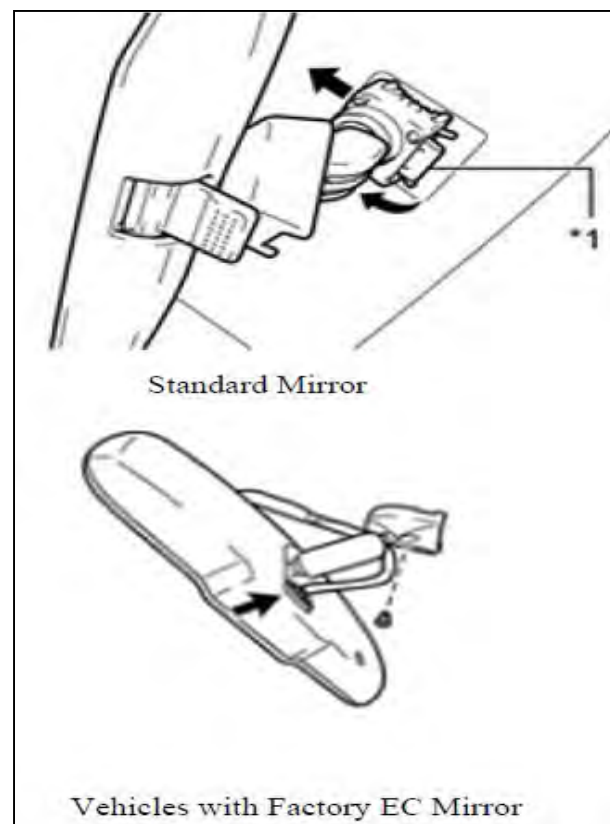


Figure 3A

Vehicle Disassembly and Installation

1. Remove the NEGATIVE (-) battery terminal before starting any disassembly. Do not touch the positive terminal. Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system. See Figure 1.

2. Pinch the cover and detach the 2 claws. Then remove the cover. See Figure 2.

Text in Illustration

**1Cover*

3. Pull the lever, and then slide to remove the inner rear view mirror assembly. See Figure 3A. Using foam tape from the new Frameless® EC Mirror w/Compass & HomeLink® kit, secure the harness above to the headliner. See Figure 3B.

Note: When replacing factory EC mirror with the Frameless® EC Mirror w/Compass & HomeLink®. Remove the factory EC mirror wire harness cover. Using a T20 Torx bit remove screw. Slide mirror to remove. See Figure 3A.



Figure 3B

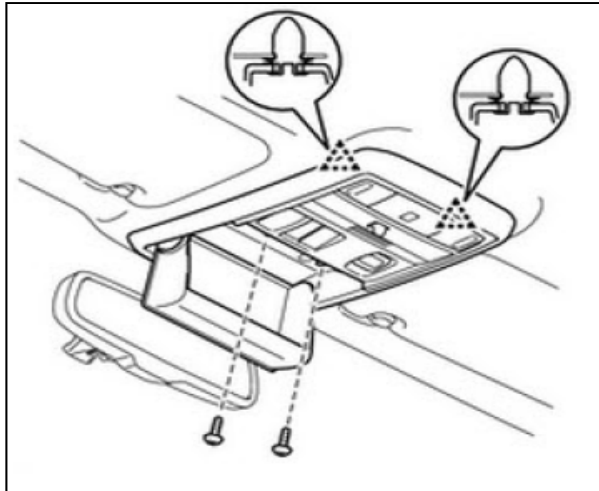


Figure 4

4. Remove the 2 screws. Detach the 2 clips to remove the map light assembly. Disconnect the connector. See Figure 4.

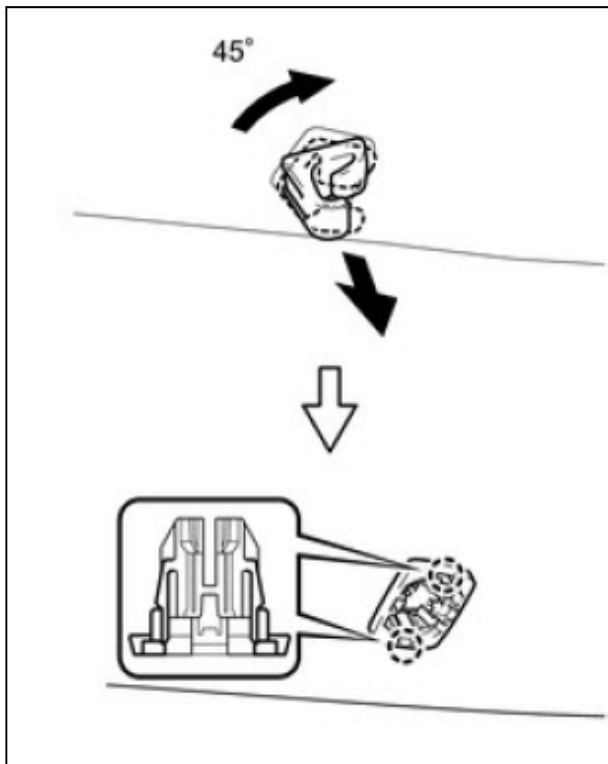


Figure 5

5. Turn the visor holder approximately 45° and pull it out as shown in the illustration. See Figure 5.

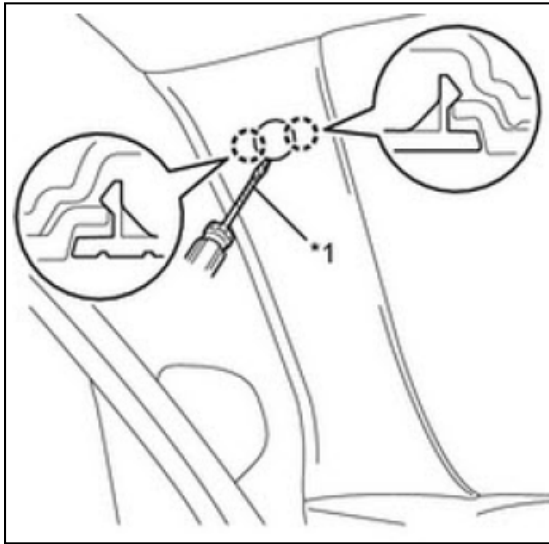


Figure 6

6. Using a screwdriver, detach the 2 claws to remove the No. 1 front pillar garnish cover LH. See Figure 6.

Text in Illustration

**1Protective Tape*

HINT: Tape the screwdriver tip before use.

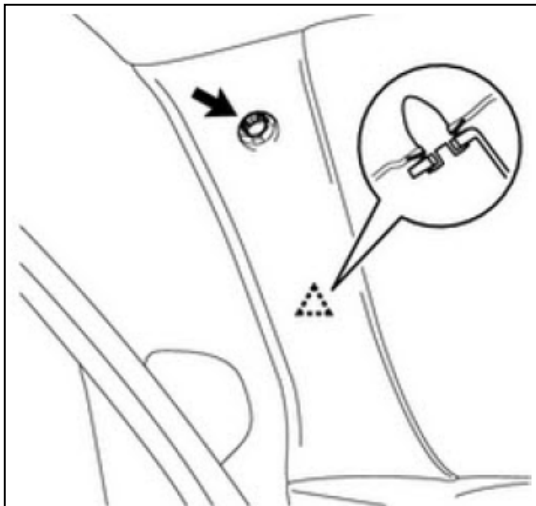


Figure 7A

7. Remove the bolt and detach the clip. See Figure 7A. Detach the 2 guides to remove the front pillar garnish LH. See Figure 7B.

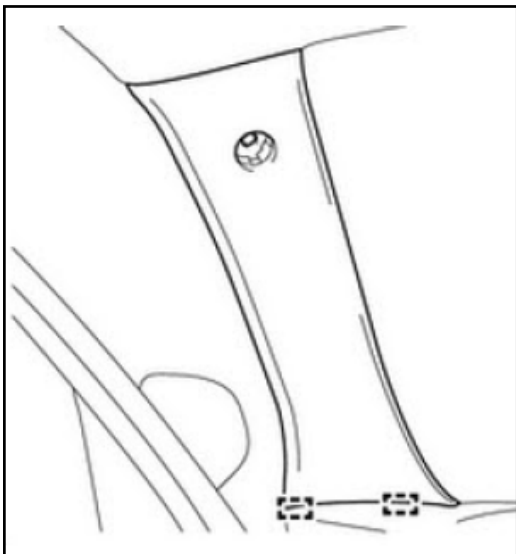


Figure 7B

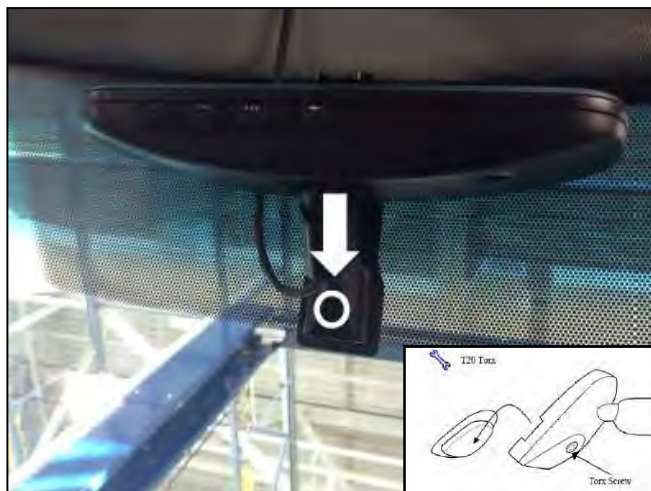


Figure 8

8. Mount the Frameless® EC Mirror w/Compass 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 8.



Torque: 15.5 in.*lbf



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

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

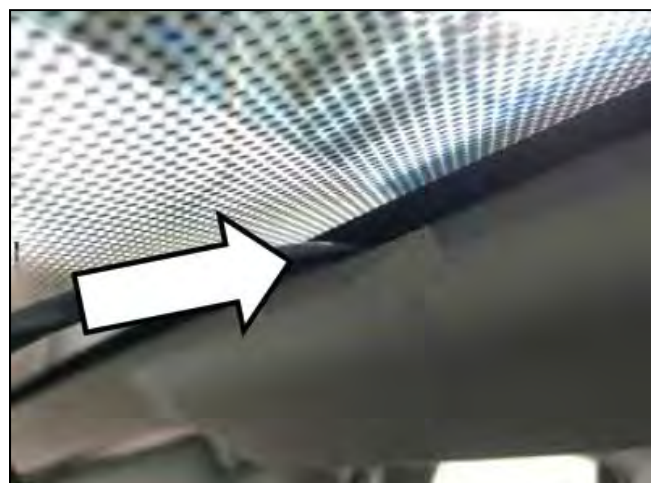


Figure 9

9. Route the mirror harness to overhead console opening as shown. See Figure 9.

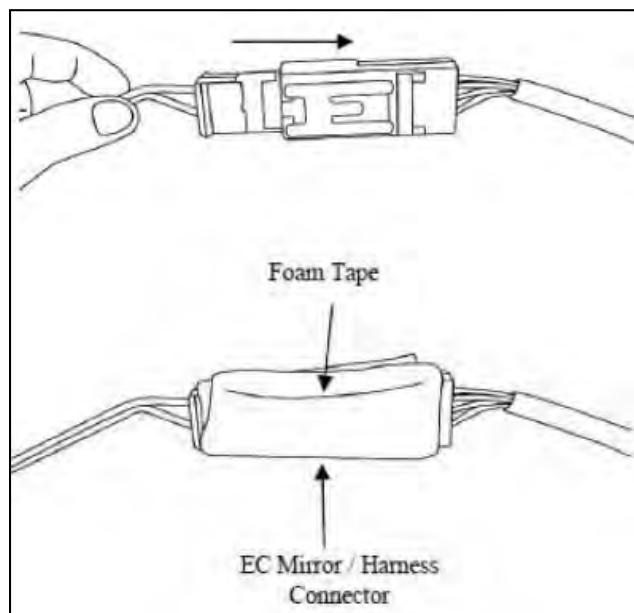


Figure 10

10. Connect the mirror harness to the mirror main power harness. Make sure both connectors are fully engaged. Wrap foam tape around connectors. See Figure 10.

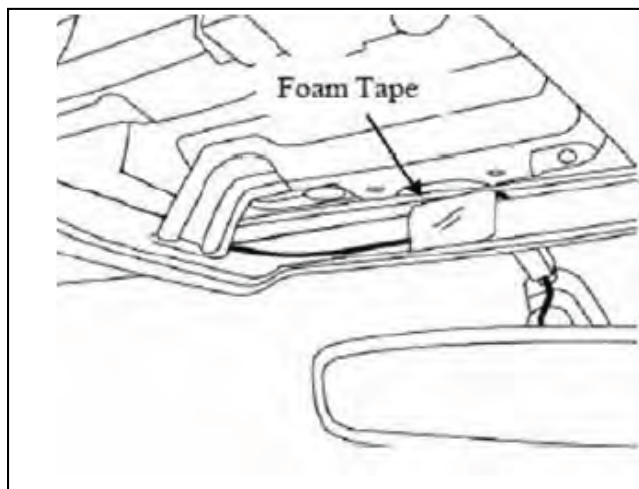


Figure 11

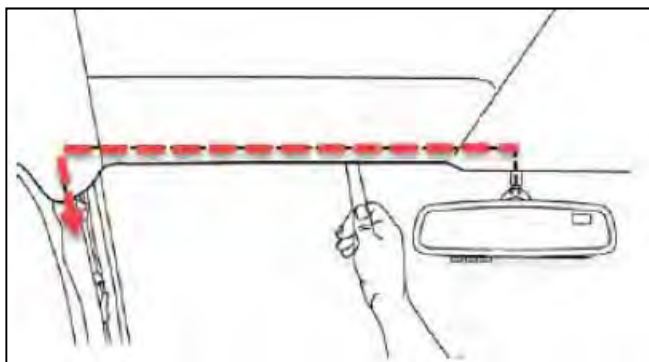


Figure 12



Figure 13A

11. Secure the harness to the front center of the headliner with one (1) piece of foam tape. See Figure 11.

12. Route mirror main power harness wires along front edge of headliner towards the LH vehicle A-Pillar. See Figure 12.

13. Route the mirror harness power wires down to the bottom of the Front LH pillar. Secure the harness to the vehicle OE harness as shown using (4) wire ties. If equipped with a sunroof, be sure not to secure mirror harness to sunroof drain tube See Figure 13A and 13B.



Figure 13B

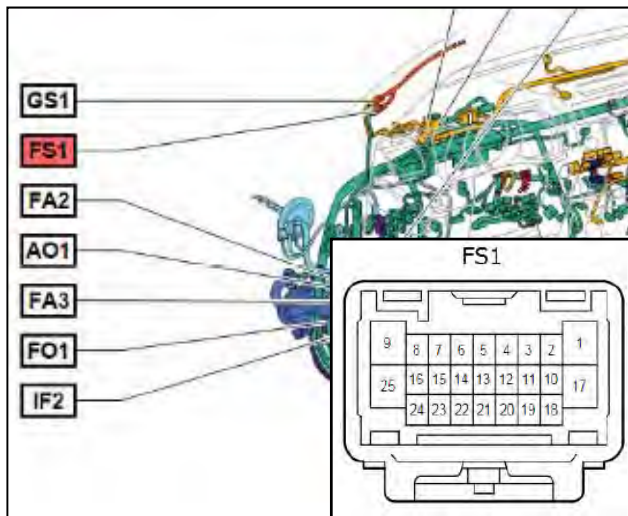


Figure 14

14. Locate white connector FS1 (25 pin) in the LH A-Pillar. See Figure 14.

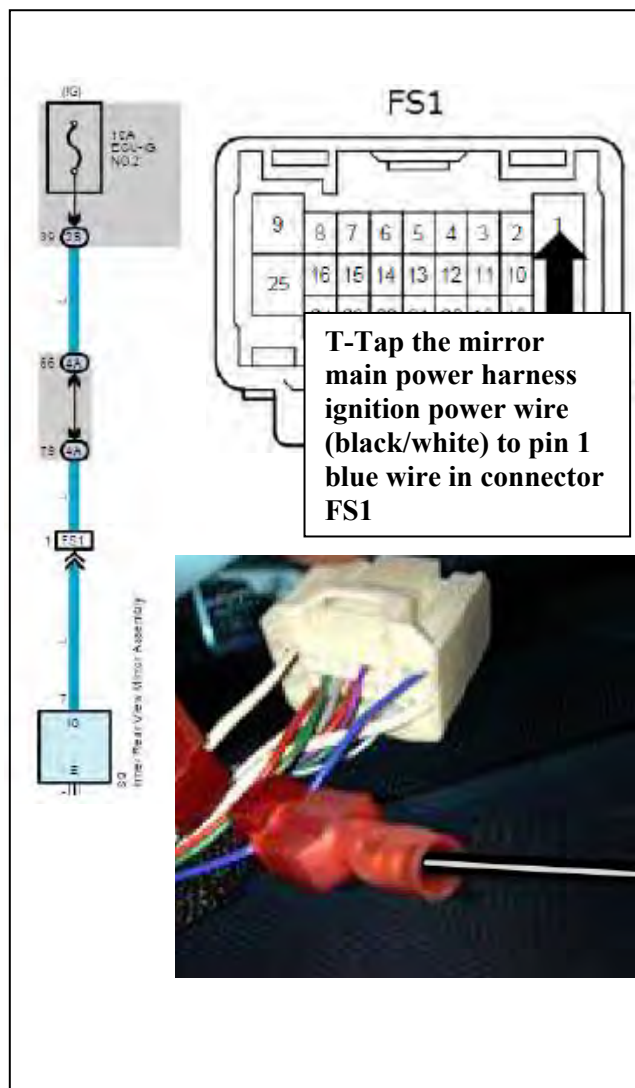


Figure 15

15. T-Tap the mirror main power harness ignition power wire (black/white) to pin 1 blue wire in connector FS1. See Figure 15.

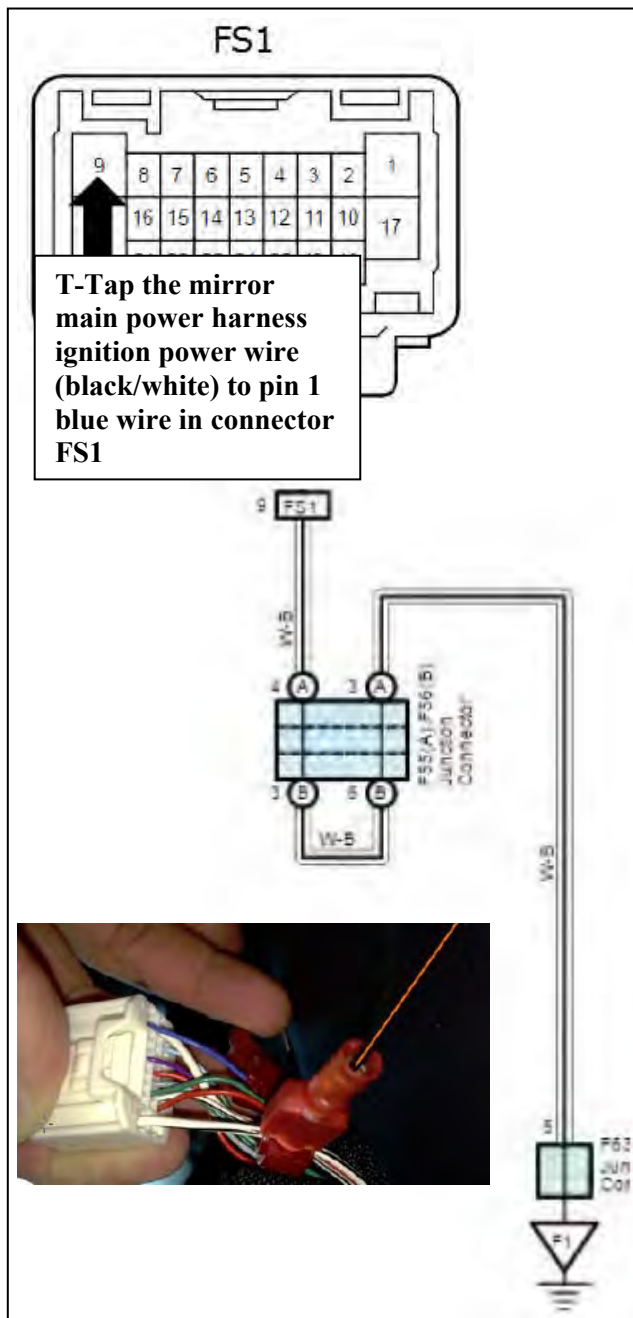


Figure 16

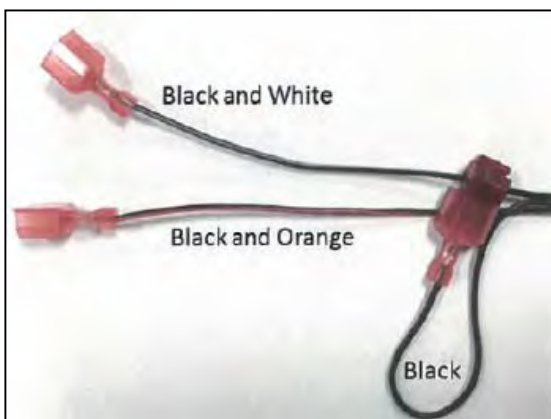


Figure 17

16. T-Tap the mirror main power harness ignition power wire (black/white) to pin 1 blue wire in connector FS1. See Figure 16.

17. T-Tap the mirror main harness power wire (black) to the mirror main harness ignition wire (black/White) of the same mirror harness. See Figure 17.

Note: This step can be done on the work table to speed the process.



Figure 18

18. Bundle up any excess wire. Secure the mirror main power harness to OE harness. Make sure to keep harness away from the airbag. See Figure 18.



Make sure to keep harness away from the airbag.

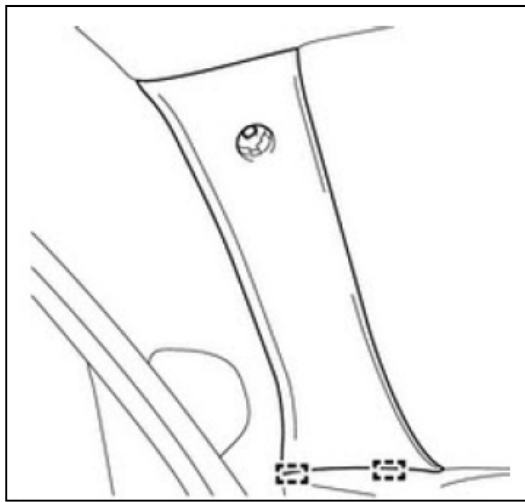


Figure 19A

19. Install Attach the 2 guides and clip to install the front pillar garnish LH. Install the bolt. Attach the 2 claws to install the No. 1 front pillar garnish cover LH. See Figure 19A and 19B.

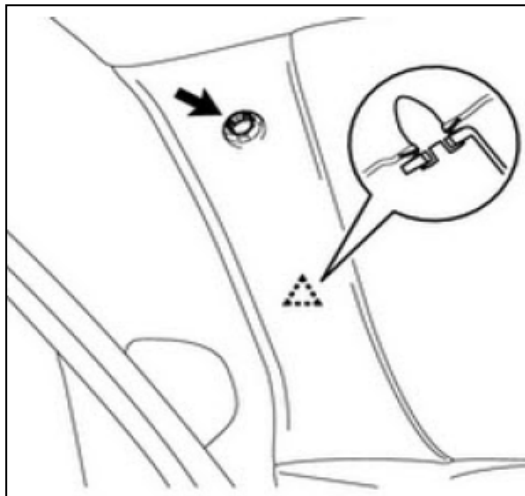


Figure 19B

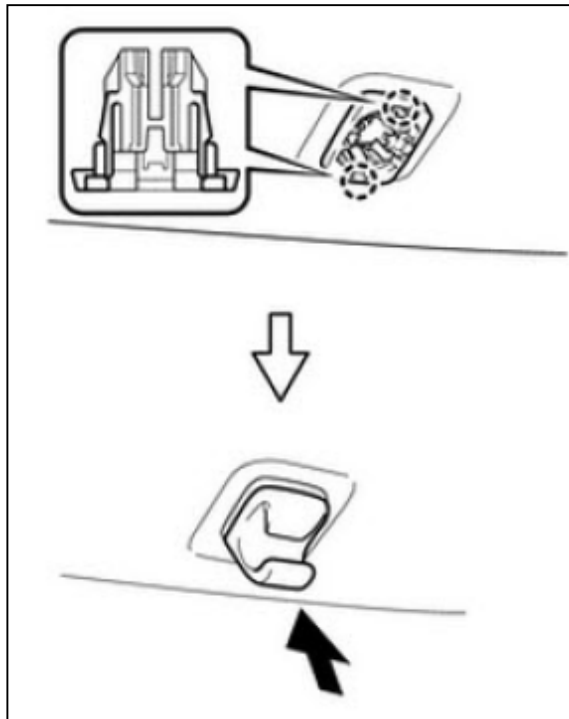


Figure 20

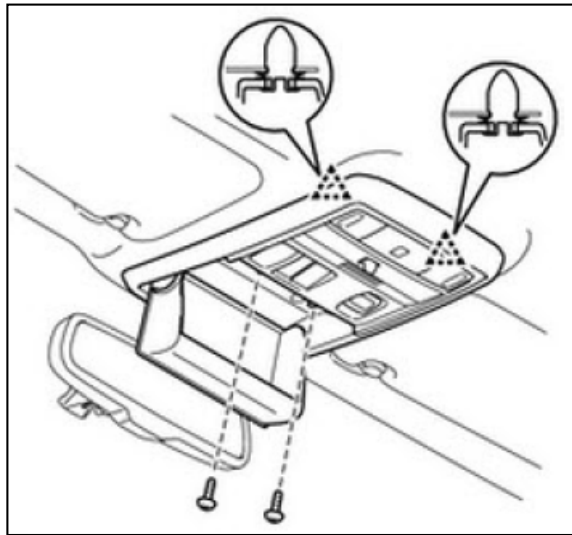


Figure 21

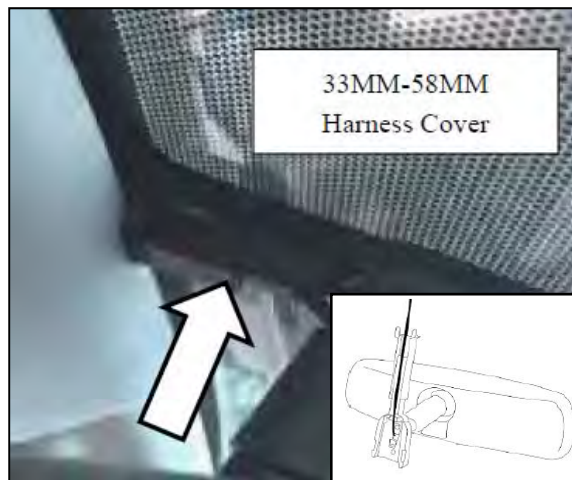


Figure 22

20. Attach the 2 claws. Push in the visor holder to install it. See Figure 20.

21. Connect the connector. Attach the 2 clips to install the map light assembly. Install the 2 screws. See Figure 21.

22. Install the 33MM-58MM wire harness cover (SET part # 00016-05463-04) over the wire harness. Seat the bottom of the cover securely to base of the mirror. Extend the top of the cover fully into the headliner. See Figure 22.

Note: The 33MM-58MM wire harness cover 00016- 05463-04 is not provided in the mirror kit. This item must be ordered separately.

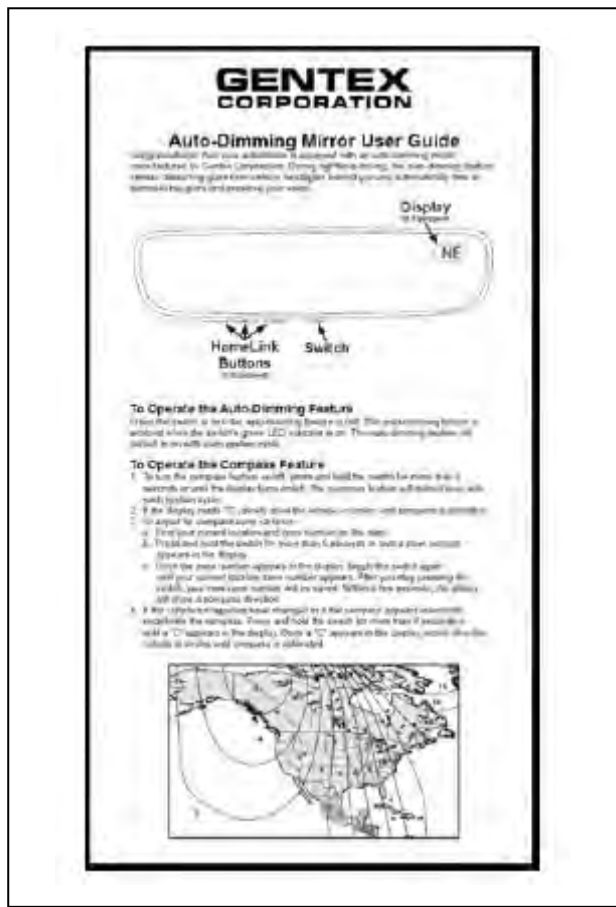


Figure 23

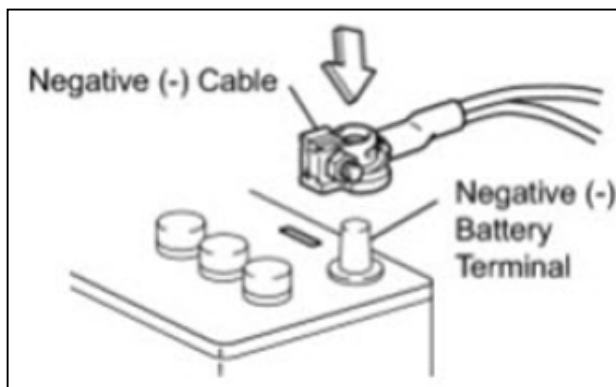


Figure 24

23. Place owner's cards in the glove box.
See Figure 23.

24. Print Warranty Statement and place in glove box, DIO only.

25. REINSTALL ALL TRIM PANELS IN THE ORDER OF REMOVAL TAKING SPECIAL CARE TOMAKE SURE ALL HARNESSES AND WIRING ARE PROPERLY SECURED. MAKE SURE HARNESSES ARE NOT PINCHED OR BOUND BY TRIM PIECES.

26. Tighten the negative battery cable.
See Figure 24.

S Torque: 48in.*lbf



Caution: DO NOT touch the positive terminal.

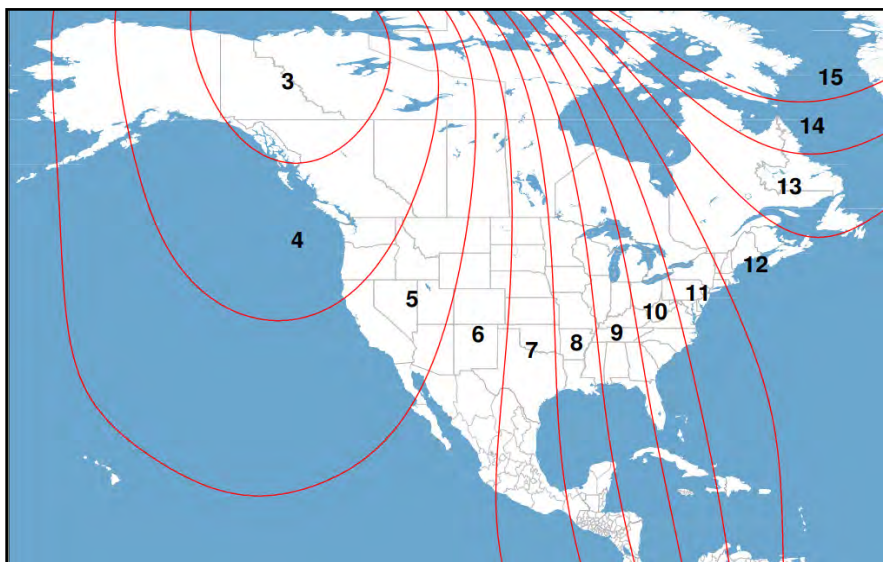


Figure 25

1. 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. **PIO: Set to Zone 10.**
DIO: Refer to the Zone Map and toggle button until correct zone is displayed. See Figure 25.
- 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.

2. 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.

FUNCTION AND QUALITY CHECK

These points **MUST** be checked to ensure a quality installation.

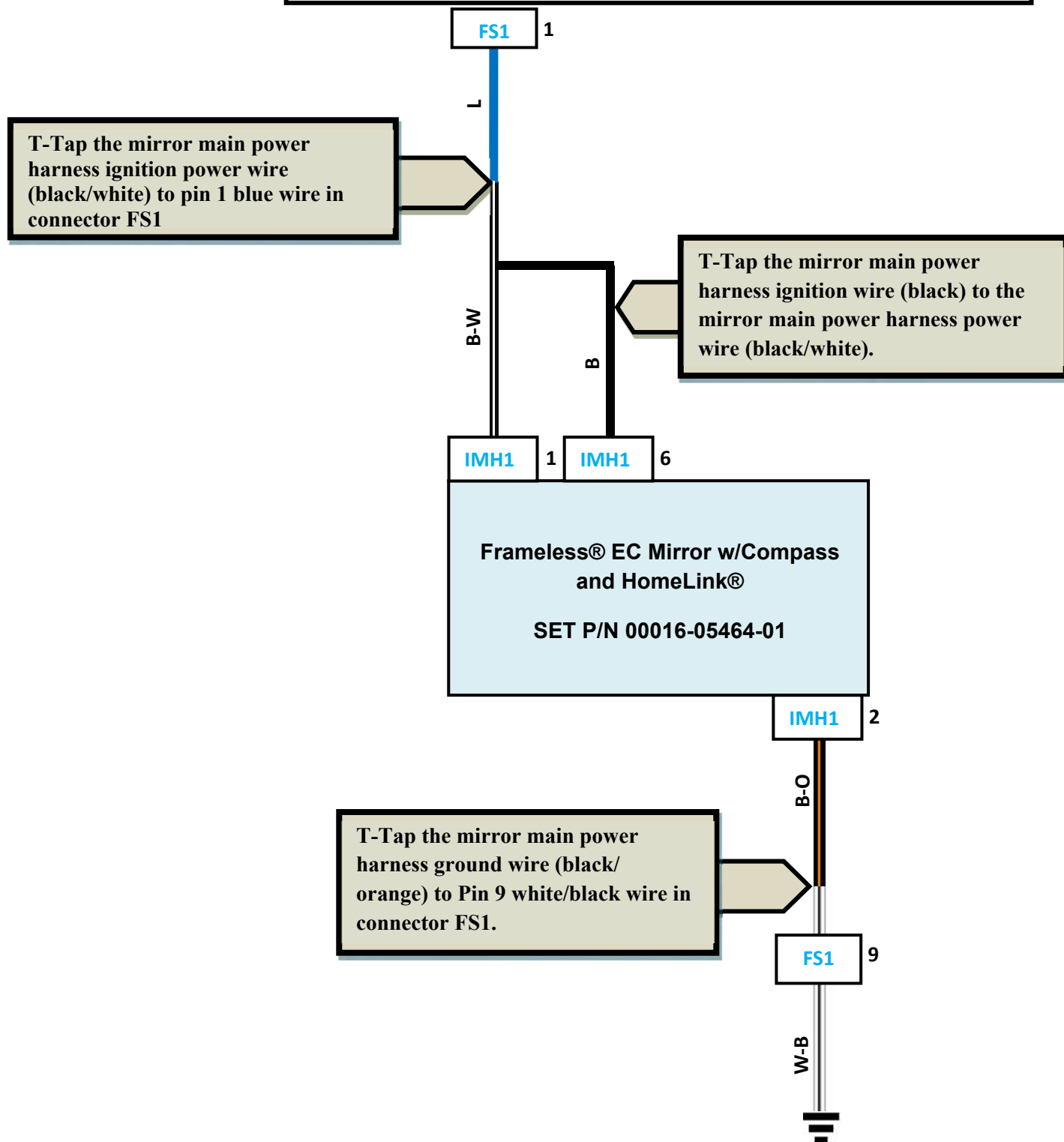
ACCESSORY FUNCTION CHECK**LOOK FOR:**

- | | |
|---|--|
| ✓ Vehicle should be in a fairly well lit area. Turn ignition (ACC power) to ON. | Verify green LED is on. If it is not ON press ON / OFF button - confirm LED is ON. |
| Auto-Dimming Feature: | |
| ✓ Cover the forward-looking light sensor (located on the back of the mirror). | Verify mirror darkens. |
| ✓ Remove cover from photocell. | Mirror returns to clear state. |
| Compass Feature: | |
| ✓ Look at the mirror compass display. | Correct compass heading should now be displayed. If a "C" is displayed in window, calibrate the compass. |
| ✓ Operation Instruction Cards | Place in the vehicle glove box. |
| HomeLink Feature: | |
| ✓ Look at the mirror's (3) HomeLink buttons. | Verify all (3) buttons are illuminated when the vehicle ignition is ON. |
| ✓ Press the mirror's (3) HomeLink buttons. | HomeLink icon will appear in mirror. Press button again to stop the icon from flashing. |
| Vehicle Function Check: | |
| ✓ Check dome light. | Verify the dome light functions properly. |
| ✓ Check the Sunroof if applicable. | Verify the sunroof functions properly. |
| ✓ Warranty Statement | Place Warranty Statement in the glove box, DIO Only. |

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

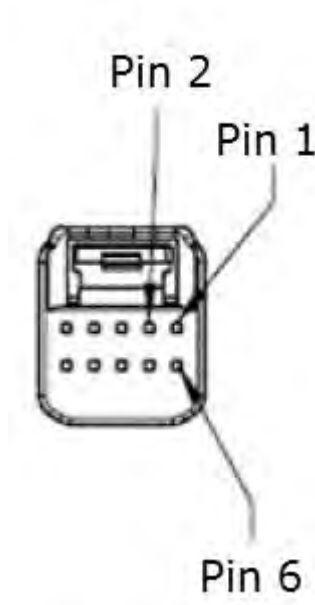
Applies to SET P/N 00016-05464

2018 4Runner



Checking the Harness Pin outs:

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



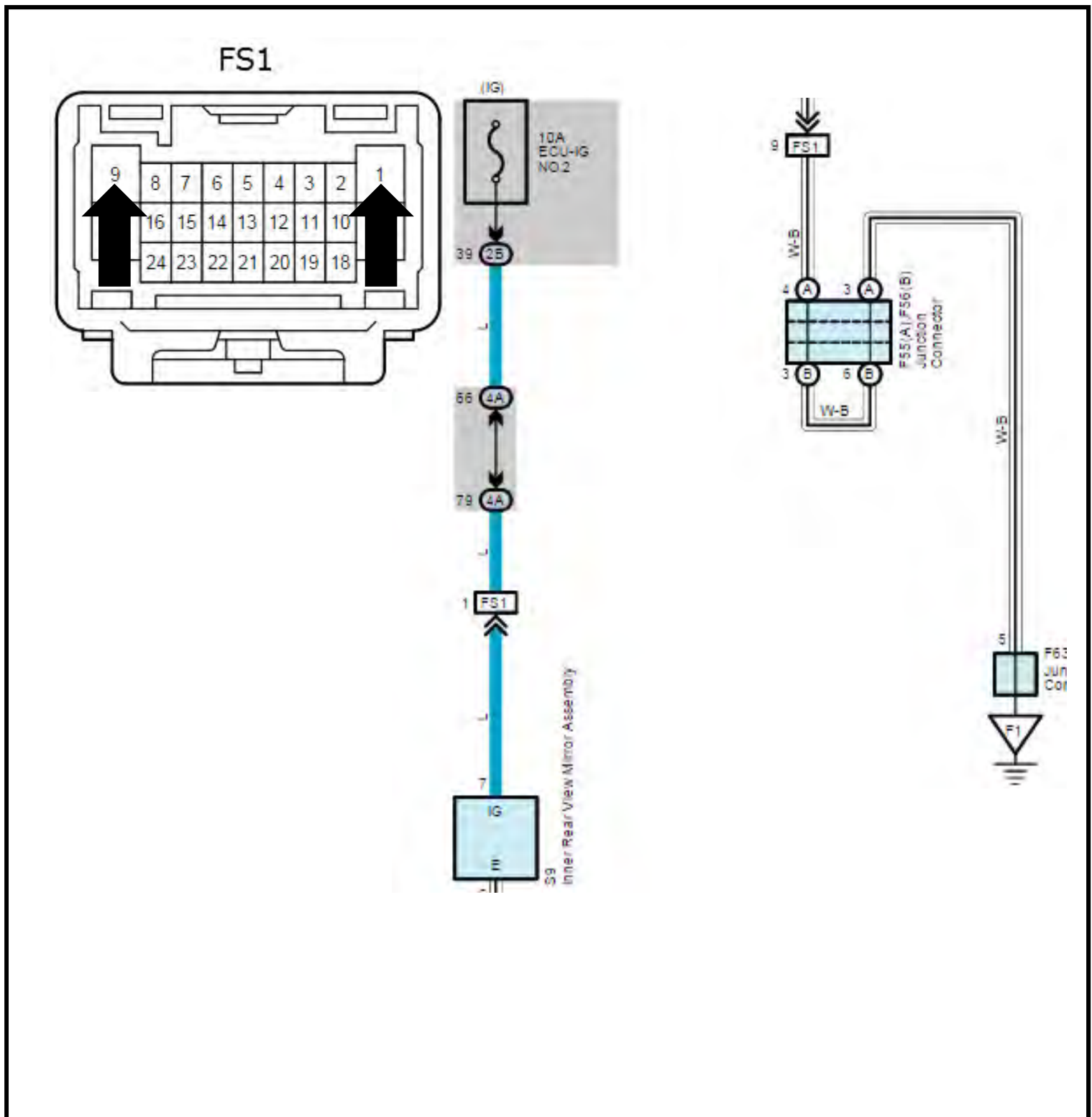
Connector view is from the front (pin side)

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 FS1 Power Circuit / FS1 Ground Circuit



LIMITED WARRANTY – SOUTHEAST TOYOTA

SOUTHEAST TOYOTA DISTRIBUTORS, LLC ("we," "our" and "us") provides the following limited warranty on our accessories, excluding tires, ("Accessories" or "Accessory") installed on a Toyota. This limited warranty is not provided by and does not bind or provide benefit to the vehicle dealer, the manufacturer, or Toyota Motor Sales, U.S.A., Inc. This limited warranty does not apply to tires; please consult the tire manufacturer and/or its materials accompanying the vehicle for any warranty terms concerning tires. This limited warranty also does not apply to ToyoGuard Exterior Paint Sealant and ToyoGuard Interior Protector; please consult the ToyoGuard Limited Warranty Certificate for the warranty terms concerning those products.

SCOPE OF LIMITED WARRANTY:

A. Protection:

- i. **Accessories Installed by Southeast Toyota Distributors, LLC on a new Toyota vehicle.** We warrant that, for a period of 36 months or 36,000 miles, whichever occurs first, we will repair or replace (includes labor), free of charge, any defect in such an Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory. The warranty period begins on the vehicle's In-Service Date, which is the first date the new vehicle is either delivered to an ultimate purchaser, leased, or used as a company car or demonstrator. Accessories installed by Southeast Toyota Distributors, LLC are identified on the vehicle's window sticker (Monroney Label).
- ii. **Accessories Installed by a Toyota Dealer on a Toyota vehicle.** We warrant that, for 12 months, regardless of mileage, from the date such an Accessory was installed on the vehicle or the remainder of the Toyota new vehicle warranty, whichever is longer, we will repair or replace (includes labor), free of charge, any defect in the Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory. For a new vehicle, the warranty period begins on the vehicle's In-Service Date, which is the first date the new vehicle is either delivered to an ultimate purchaser, leased, or used as a company car or demonstrator.
- iii. **Accessories purchased from a Toyota Dealer but not installed by the Toyota Dealer.** We warrant that, for a period of 12 months, regardless of mileage, from the date the accessory was purchased, we will repair or replace (does not include labor), free of charge, any defect in the Accessory due to faulty material or workmanship, or, at our option, provide a full refund of the purchase price of the Accessory.

B. Limitation of Warranty. This limited warranty does not apply to, and we will not repair, replace, or reimburse you for: (1) wheel balancing and wheel alignments, except for one wheel balancing or alignment during the first 12 months or 12,000 miles, whichever occurs first, from the vehicle's In-Service Date, as defined above, (2) abrasions or dents, whatever their cause, and any failure or damage resulting directly or indirectly from accidents, collisions, impacts from foreign objects, fire, theft, larceny, explosion, malicious mischief, vandalism, civil commotion, riots, war, or any other similar causes, (3) any failure or damage resulting directly or indirectly from lightning, windstorms, hail, water, floods, subfreezing temperatures, airborne chemicals, tree sap, dust, salt, and any other environmental conditions or similar causes, (4) any failure or damage caused by: (a) a failure of any part, other than the Accessory, (b) any misuse, abuse, improper towing, negligence or lack of maintenance of the vehicle or Accessory, (c) the alteration, modification or repair of the Accessory by anyone other than persons expressly authorized by us to perform such alteration, modification or repair, or (d) the use of the vehicle for commercial purposes, competitive driving or racing, (5) any failure or damage, if the Accessory has not been installed according to instructions, (6) any failure or damage occurring outside of Canada, the United States of America, its territories or possessions, (7) except to the extent required by the state whose laws govern this limited warranty, any consequential, secondary, or unreasonable costs that may be suffered as a result of the need to repair or replace the Accessory, including without limitation any loss of use of the vehicle, road service, towing, storage charges, inconvenience, loss of wages and/or income, additional expense incurred, loss of transportation, rental car expense, or any derivative damage to persons or things other than the Accessory, including other parts of the vehicle, or (8) liability for damage to property or for injury to or death of any person, arising out of the operation, maintenance or use of your vehicle whether or not related to the covered Accessory.

C. Exclusive Remedy. If there is a valid claim under this limited warranty for a defect due to faulty material or workmanship in the Accessory, we will, at our option, either: (i) repair, (ii) replace or (iii) provide a full refund of the purchase price of the Accessory. We have no other obligations under this limited warranty. Refunds will be made to the vehicle owner. If the vehicle is leased, the refund will be made to the leasing company.

HOW TO MAKE A CLAIM: In the event of a warranty claim, please contact the nearest Toyota dealer to arrange for repairs. The dealership must receive our prior authorization before making repairs covered by this limited warranty. The dealer will contact Southeast Toyota Distributors, LLC at 1-888-851-2722, select option #5 (Warranty Department), then option #4 (Repairs), for instructions on processing a warranty claim, if they are not already familiar with the process. If you have any questions or concerns regarding repairs covered by this limited warranty, please contact our **Customer Assistance Hotline at 1-800-301-6859**.

OUR DISPUTE RESOLUTION PROGRAM: Your satisfaction is our highest priority. In keeping with that focus, in the event that an issue arises related to this Limited Warranty, we invite you to call our Customer Assistance Hotline at 1-800-301-6859 to discuss it. In most cases, we expect that a satisfactory resolution of your issue can be reached through engagement with that Department. If our Customer Loyalty Department is unable to resolve your issue to your satisfaction, we offer a dispute resolution program administered by the National Center for Dispute Settlement (NCDS) ("the Program"). The purpose of the Program is to resolve disputes in an informal setting before an impartial arbitrator. The Program is free of charge to you (although you must bear the cost of any expert witness or attorney you elect to employ). You are required to complete the Program before exercising rights or seeking remedies under the federal Magnuson-Moss Warranty Act, 15 U.S.C. § 2301 et seq. ("the Act"). If you choose to seek remedies that are not created by the Act, you are not required to use the Program before pursuing such remedies – although the Program is still available to you to resolve the dispute. When utilizing the Program, you will need to provide (a) the vehicle identification number of your vehicle, (b) the identity of your selling and servicing dealerships, (c) the mileage on your vehicle at relevant times, (d) the date and nature of any relevant repairs, (e) legible copies of repair orders and other relevant documents, (f) a summary of the unresolved issue and the requested action, and (g) your contact information. In most cases, the dispute resolution process under the Program will be completed within forty (40) days of your submission of your request and will consist of steps such as an initial eligibility determination, an opportunity for you and us to submit information in writing relating to your claim, an oral hearing, and a decision from the arbitrator. A decision will be binding on you only if you choose to accept it. You may submit a request to NCDS by telephone at their toll free number: (877)-276-8848 or in writing at P.O. Box 463196, Mt. Clemens, MI 48046. You may obtain additional information regarding the Program at www.ncdsusa.org. In the event that the NCDS does not exist or no longer handles disputes for us at the time that you seek to submit a request, you may contact our **Customer Assistance Hotline at 1-800-301-6859** to obtain current information about our dispute resolution programs.

GENERAL LIMITATION OF WARRANTY: THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES OR LIABILITIES. IN NO EVENT SHALL WE BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY. SOME STATES DO NOT ALLOW THE EXCLUSIONS OR LIMITATIONS OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE INFORMATION OR EXCLUSION MAY NOT APPLY. NO EXPRESS WARRANTY OF FITNESS OR MERCHANTABILITY IS GRANTED BY THIS LIMITED WARRANTY. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THOSE DESCRIBED IN THIS DOCUMENT. ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH MAY BE APPLICABLE BY OPERATION OF LAW SHALL BE LIMITED TO THE PERIOD OF THIS WRITTEN LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY. THIS LIMITED WARRANTY PROVIDES SPECIFIC LEGAL RIGHTS, AND THERE MAY BE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. ANY ACTION FOR BREACH OF ANY WARRANTY HEREUNDER, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, MUST BE BROUGHT WITHIN A PERIOD NOT EXCEEDING 12 MONTHS AFTER EXPIRATION OF THIS LIMITED WARRANTY. THE REMEDIES SPECIFIED HEREIN AND THOSE SPECIFIED BY APPLICABLE LAW ARE THE ONLY REMEDIES AVAILABLE. WE ASSUME NO OTHER OBLIGATION OR RESPONSIBILITY WITH REGARD TO THE ACCESSORY. WE NEITHER ASSUME, NOR AUTHORIZE ANYONE TO ASSUME FOR US, ANY ADDITIONAL LIABILITY IN CONNECTION HERewith.

GENERAL: This limited warranty describes the complete and exclusive rights that result from the purchase of Accessories. No oral representations or statements may be relied upon. This limited warranty may not be amended or modified, and additional rights may not be granted, unless in a written statement signed by one of our officers. This limited warranty shall be governed by the laws of the state where the vehicle is purchased, excluding laws concerning conflicts of law. We may delegate the performance of our duties and obligations and assign our rights and benefits hereunder. For inquiries regarding this limited warranty, we can be contacted directly at **Customer Assistance Hotline at 1-800-301-6859**, or by mail to: **Southeast Toyota Distributors, LLC, Attention: Customer Loyalty Department, 100 Jim Moran Boulevard, Deerfield Beach, Florida 33442.**