PREPARATION

Part #: PK6A3-33HT1 and PK6A4-33HW1

Conflicts:

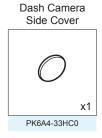
Kit Contents

Dash Camera Kit: PK6A3-33HT1

Dash Camera

x1

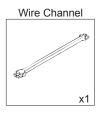
PK6A4-33HT1



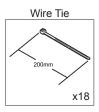




Wire Harness Kit: PK6A4-33HW1













Not used - Discard

Service Part #'s

Additional Items

(may be required)

| Item# | Description | |
|-------|-------------|--|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Recommended Sequence of Application

| Item# | Description |
|-------|-------------|
| | |
| | |
| | |
| | |
| | |
| | |

Recommended Tools

| Personal & Vehicle Protection | Description | |
|-------------------------------|--|--|
| Vehicle Protection | Blankets, Part Boxes | |
| Special Tools | | |
| Dash Camera Mounting Template | IADS# 4RU20-0011 | |
| Installation Tools | | |
| Screwdriver | #2 Phillips, Flat Blade Jeweler's | |
| Panel Removal Tool | Toyota SST# 00002-06001-01 | |
| Side Cutters | | |
| Torque Wrench | Battery: 48 in•lbf (5.4 N•m), Ground Bolt: 75 in•lbf (8.5 N•m) Knee Airbag: 88.5 in•lbf (10 N•m) | |
| Pliers | Needle-nose, Universal | |
| Scissors | | |
| Tape Measure / Ruler | | |
| Ratchet | | |
| Таре | Electrical, Masking | |
| Socket | 10mm, Extension | |
| Special Chemicals | | |
| Cleaner | VDC Approved Cleaner | |
| Glass Cleaner | Toyota Touch Glass Cleaner | |

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PREPARATION

Table of Contents

| I. | Preparation | 1 – 3 |
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| | 1. Vehicle Disassembly | |
| | Dash Camera Installation | |
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| Ш. | I. Checklist | 22–24 |
| | Accessory Function Checks | |
| | Vehicle Appearance Check | 22 |
| | 3. Vehicle Function Checks | |

Precautions for Installation

Contents indicated by and in this manual must be carefully followed during the installation. If they are ignored, functions of the accessory maybe hindered, as well as personal injury or damage to the vehicle may result. Always carry out the installation as instructed.

When the vehicle parts are removed, keep all tapping screws, bolts and nuts organized so that the reassembly will proceed correctly.

Do NOT remove vehicle parts except for those that are specified in the manual.

NOTE: Pictures depicted in this Installation Manual may not reflect the current model and model year vehicle.

Legend



Do not proceed until process has been completed.



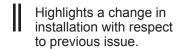
Follow steps carefully to avoid damaging the Vehicle or Accessory.

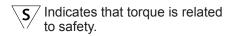


Use caution to avoid injury.



Used in Figures to call attention to specific tools recommended for the process.







Accessory Installation Practice (read before 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.

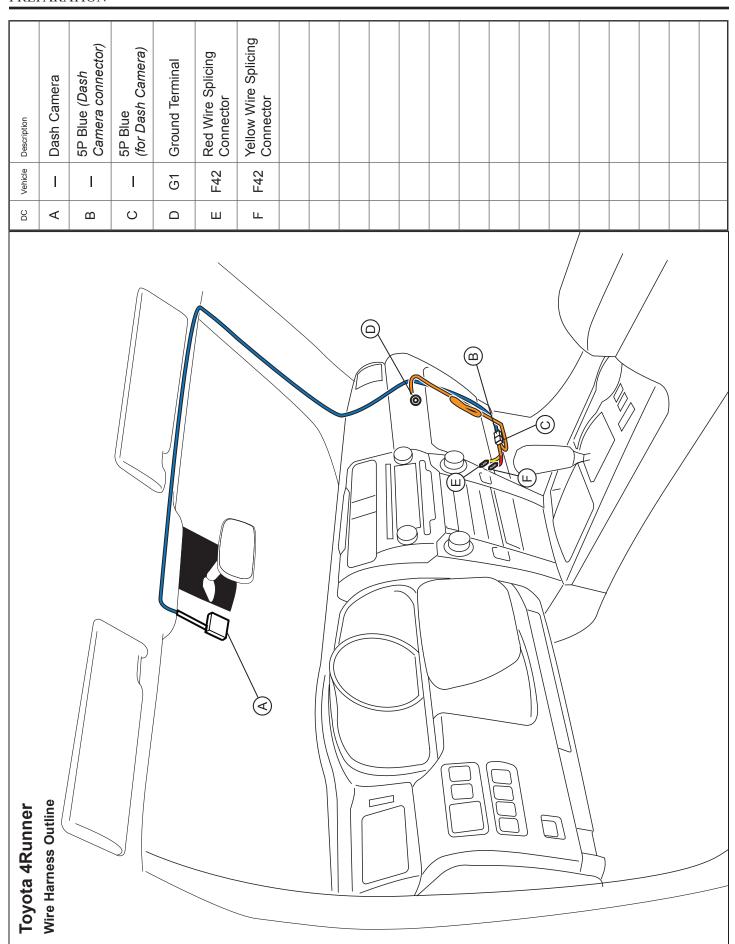
These guidelines can be found in the "Toyota and Scion Accessory Installation Practices" or "Lexus Accessory Installation Practices" document.

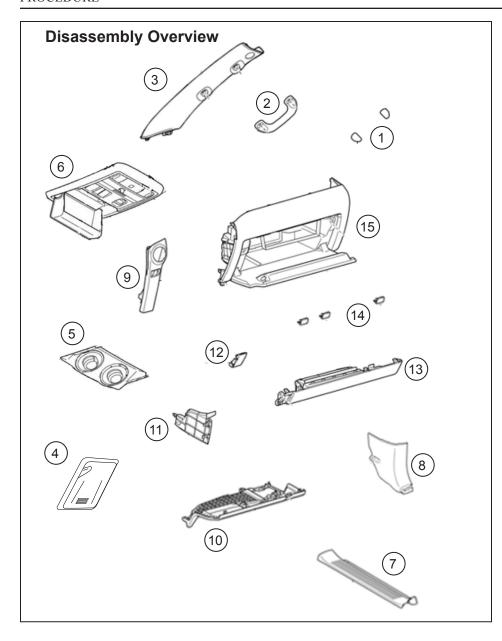
This document covers such items as:

- Installation Instructions
- Safety
- · Vehicle Protection
- · Vehicle Disassembly/Reassembly
- Electrical Component Disassembly/Reassembly
- · Use of Special Chemicals
- Temperature
- Torque Recheck
- · Window Label Installation
- TPMS Check

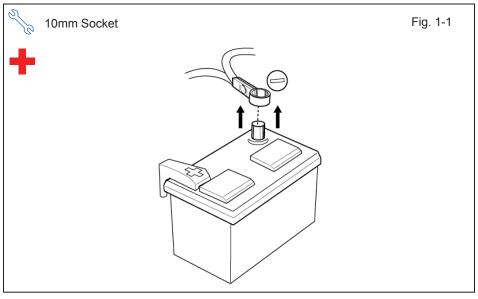
Please refer to ETAS for a copy of this document.

| PR | FP | ΔR | ΔT | ION |
|----|----|----|------------|-----|
| | | | | |





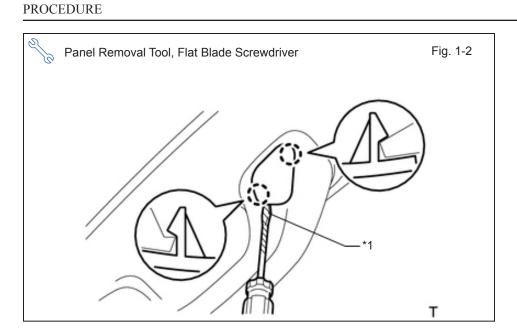




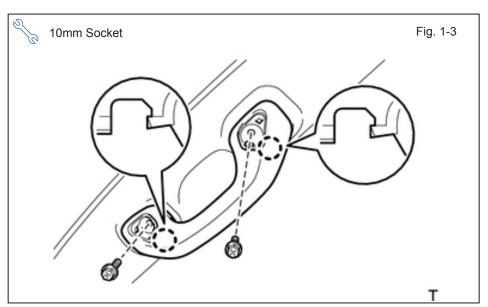
1. Vehicle Disassembly

- a. Place the Vehicle in Park with the Parking Brake set.
- b. Disconnect the Negative Battery Terminal.
 - · Protect the Fender.
 - Note the Battery Cable Position as it will be re-installed in the same position.

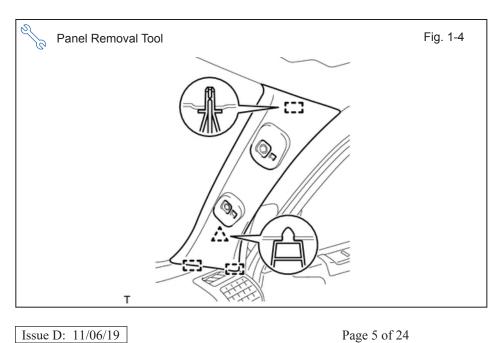




- c. Remove Front No. 1 Assist Grip Plug RH.
 - · Using a protective tape wrapped screwdriver (*1), detach the 2 claws and remove the front No. 1 assist grip plug RH.

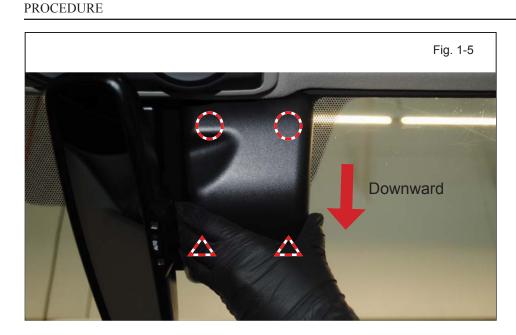


- d. Remove No. 1 Assist Grip.
 - · Remove the 2 bolts.
 - · Detach the 2 claws and remove the No. 1 assist grip.



- Remove the Front Pillar Garnish RH.
 - Detach the clip and 3 guides and remove the front pillar garnish RH.

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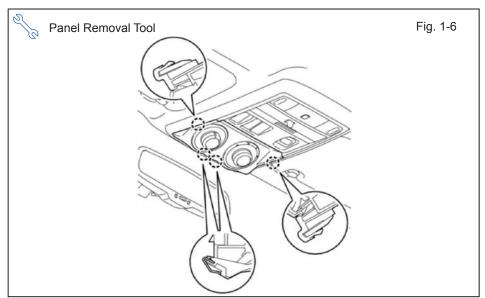


- f. Remove No.1 Forward Recognition cover.
 - Detach the 2 clips and 2 guides to remove the cover as shown in the illustration.

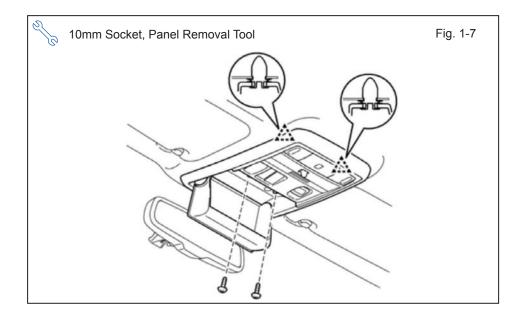




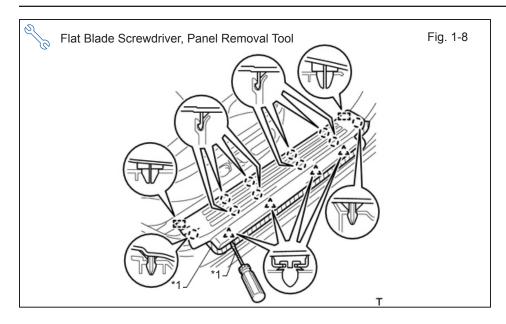




- g. Remove Drive Monitor Switch (w/ Drive Monitor Switch).
 - Detach the 4 claws to remove the drive monitor switch.
 - · Disconnect the connector.



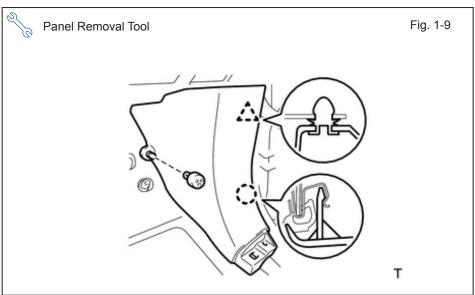
- h. Remove Map Light Assembly.
 - Open the cover (w/o Drive Monitor Switch).
 - · Remove 2 screws.
 - Detach the 2 clips to remove the map light assembly.
 - · Disconnect the connector.



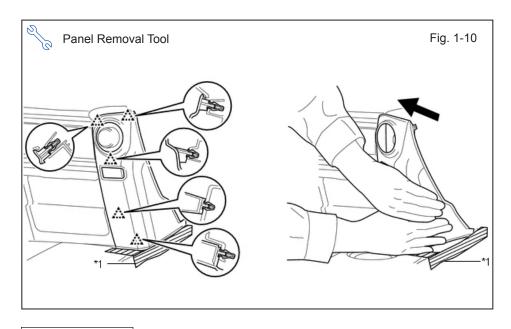
 Remove Door Scuff Plate Assembly RH.

2020 -

- Put protective tape (*1) around the door scuff plate assembly RH.
- Using a protective tape wrapped screwdriver, detach the 4 clips, 10 claws and 2 guides to remove the door scuff plate assembly RH.



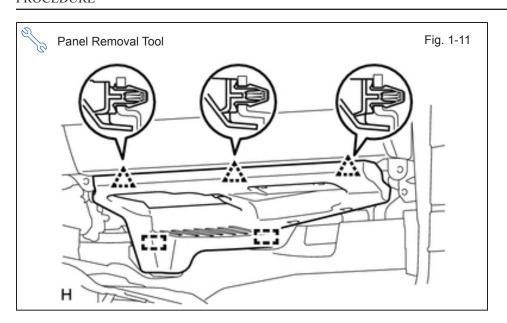
- Remove Cowl Side Trim Board RH.
 - · Remove the clip.
 - Detach the clip and claw and remove the cowl side trim board RH.



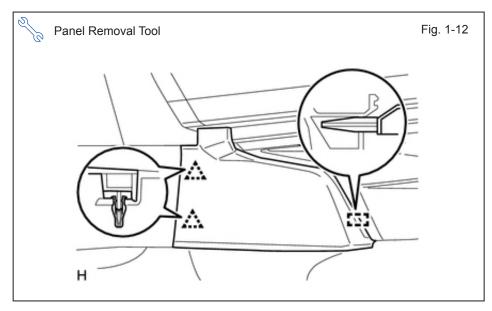
- Remove No. 2 Instrument
 Panel Cluster Finish Panel
 Garnish.
 - Open the instrument cluster finish panel lid.
 - Put protective tape (*1) around the No. 2 instrument cluster finish panel garnish.
 - Grip the No. 2 instrument cluster finish panel garnish and pull it diagonally upward toward the rear to detach the 5 clips and remove the No. 2 instrument cluster finish panel garnish.

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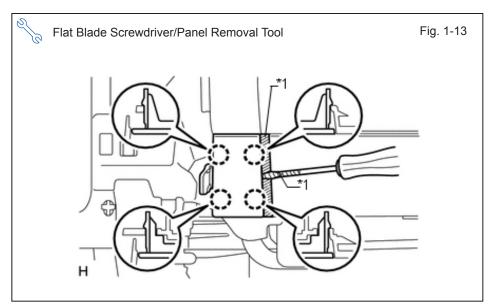




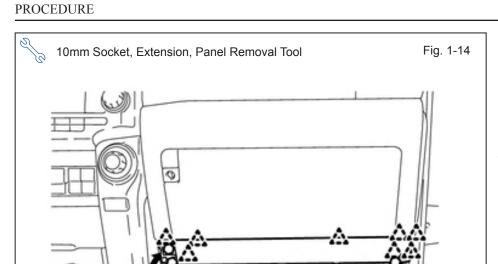
- Remove No. 2 Instrument Panel Under Cover Sub-Assembly.
 - Detach the 3 clips and 2 guides and disconnect the connector to remove the No. 2 instrument panel under cover sub-assembly.



- m. Remove Front No. 2 Console Box Insert.
 - Detach the 2 clips and guide to remove the front No. 2 console box insert.



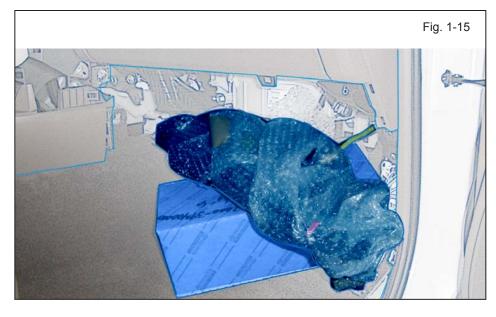
- n. Remove Lower Instrument Cover LH.
 - Put protective tape (*1) around the lower instrument cover LH.
 - Using a protective tape (*1) wrapped screwdriver, detach the 4 claws and remove the lower instrument cover LH.



- Remove Lower No. 2 Instrument Panel Airbag Assembly.
 - · Remove the 3 bolts.
 - Detach the 8 claws and remove the instrument panel airbag.



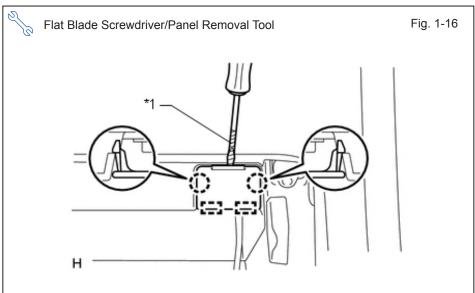
CAUTION: Do not disconnect the Vehicle's Connector.



 Wrap the Airbag in a Blanket or the like and place it on top of a box.



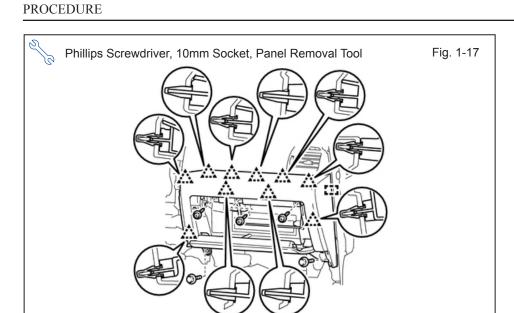
CAUTION: Prevent stress on the Airbag Harness.



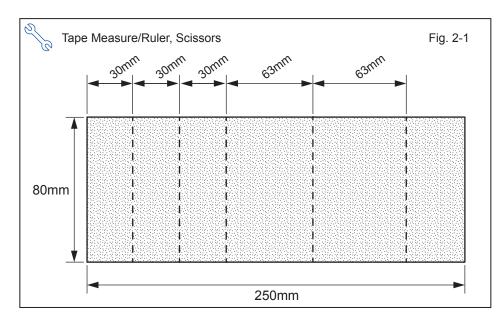
q. Remove Instrument Panel Box Door Cover.

HINT: Use the same procedure for all 3 instrument panel box door covers.

 Using a protective tape wrapped screwdriver (*1), detach the 2 claws and 2 guides and remove the instrument panel box door cover.

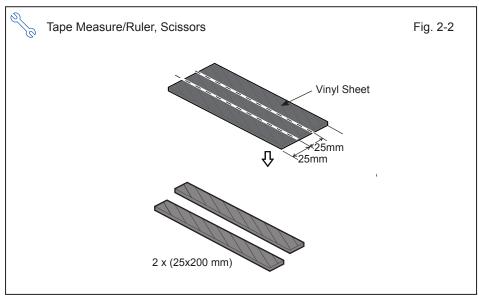


- r. Remove Lower Instrument Panel Sub-Assembly.
 - Remove the 3 screws and 2 bolts.
 - Detach the 10 clips and guide.
 - Remove wires for glove box lamp, and remove the lower instrument panel.



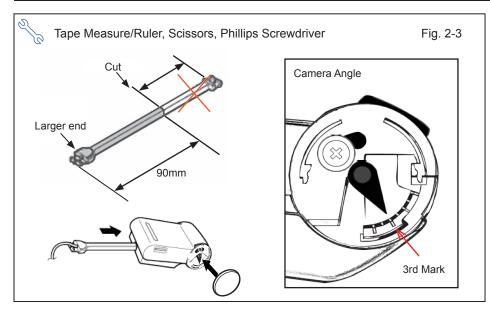
2. Dash Camera Installation

a. Cut the Foam Tape into3 pieces of (30x80mm) and2 pieces of (63x80mm) sized.



 b. Cut out 2 (25x200mm) sized pieces from the Vinyl sheet as shown.

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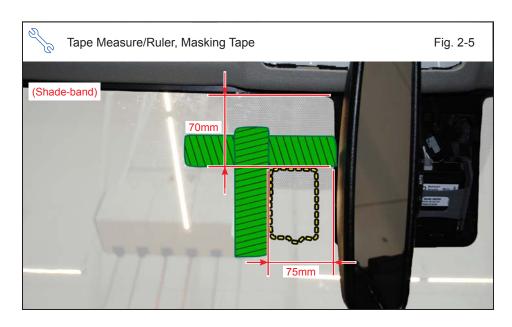
NOTE: Do not touch the camera lens during install.

- Measure the Wire Channel to 90mm length and cut to size as shown.
- d. Insert the Dash Camera Wire into the Wire Channel, then insert the Wire Channel into the Dash Camera as shown.
- e. Tighten the screw making sure the Camera angle indicator is pointing at the 3rd Mark as shown.
- f. Install the Dash Camera's side cover by aligning with slots in camera housing, then turn clockwise to lock.
- Fig. 2-4

g. Slide the protection vinyl tube until it covers the whole dash camera wire up to the Wire Channel as illustrated.

STOP

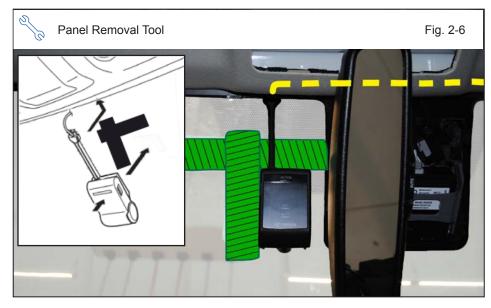
NOTE: Harness has overlapped vinyl tube. Slide the tube nearest to the camera until position shown in fig. 2-4. Do not cut the vinyl tube.



h. Use Glass Cleaner to clean the inside Windshield of the indicated mounting location.

DIO Only (steps i-j)

- Measure 75mm to the left of the Rearview Mirror channel and mark it with Masking tape.
- Measure 70mm from the edge of the shade-band and mark it with Masking tape.





NOTE: Be careful not to damage the Headliner.



NOTE: To achieve maximum bond strength of adhesive, the attachment surface temperature must be at 60°F or higher.

- k. Attach the Dash Camera on the Windshield as shown.
 - Peel the protective backing off the Dash Camera
 - Press firmly with palm on the Dash Camera for 10 seconds.
- Start routing Dash Camera Wire between the Headliner and the Roof and insert the Wire Channel end into the Headliner.



PPO Only

- m. Line up the Dash Cam
 Mounting Template (IADS#
 4RU20-0011) on the
 windshield to the LH side of
 the rearview mirror as shown.
 - Use masking tape to attach template to the windshield.
- n. Attach the Dash Camera on the Windshield aligning it within the Dash Cam Mounting Template.

HINT: Align camera to location shown by the template. Confirm camera is parallel with mirror before fixing position.

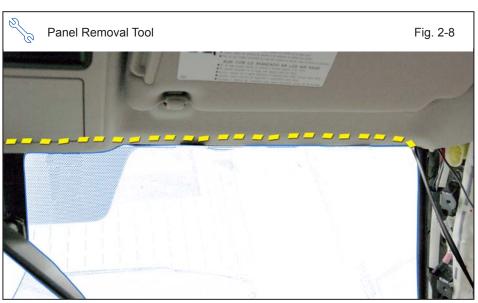
o. Route the Dash Camera wire between the Headliner and the Roof.

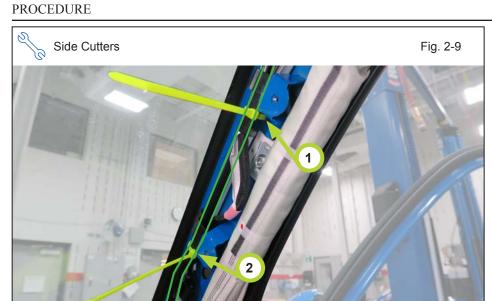


NOTE: Be careful not to damage the Headliner.



NOTE: After routing the Dash Camera wire, confirm the Wire Channel is straight. If not, adjust the Wire Channel to achieve condition in Fig. 2-6. Confirm the Dash Camera wire is properly seated (≥10mm behind the Headliner edge).



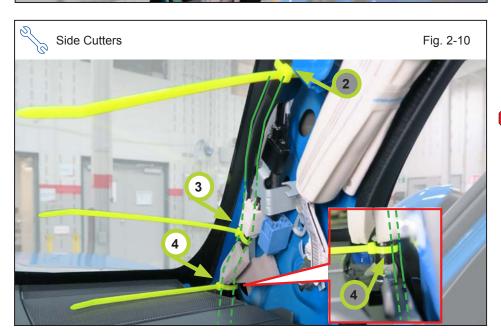


- p. Route the Dash Camera wire along and behind the vehicle harness, then secure using 2 vehicle harness clips and 2 Wire Ties (#1, #2).
 - · Rotate the Wire Tie Ratchet away from the A-pillar cover.

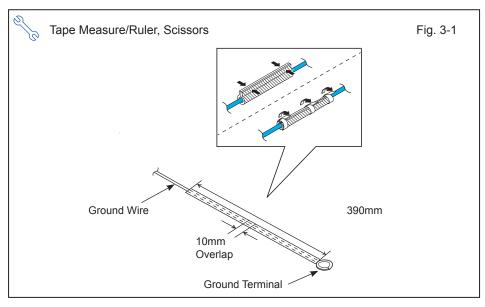
NOTE: Do not secure Dash Camera wire to the Curtain Side Air Bag or pass wire across the Curtain Side Airbag.



NOTE: Do not secure to the vehicle drain tube if equipped.



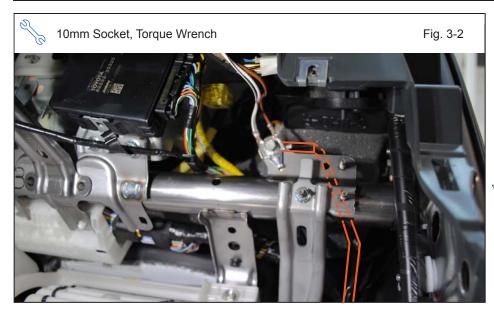
- g. Route the Dash Camera wire through the IP opening and secure using 2 Wire Ties (#3, #4) as shown.
- NOTE: Do not secure to the vehicle drain tube if equipped.



3. Wire Harness Installation.

a. Wrap the Wire Harness Ground Wire starting from the Ground Terminal using 2 (25x200mm) pieces of Vinyl sheet with a 10mm overlap in between, and secure with electrical tape closed (spiral wrap).

PROCEDURE 4RUIV



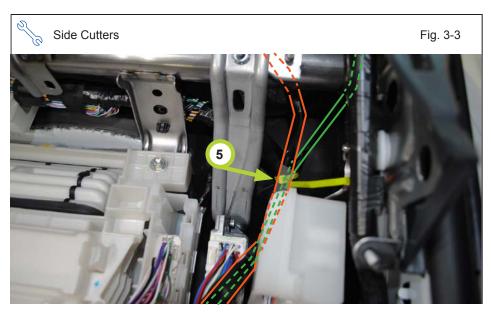
- Route the Wire Harness
 Ground Wire behind the
 reinforcement, locate "G1"
 Ground attachment upper
 right side of the Glove box
 area and remove the Bolt.
- c. Place the Wire Harness Ground Terminal **underneath** the vehicle ground terminal and reinstall the Bolt.



Torque: 75 in lbf (8.5 N m).



NOTE: Place the Wire Harness Ground Terminal behind the vehicle ground terminal at 90 degrees.

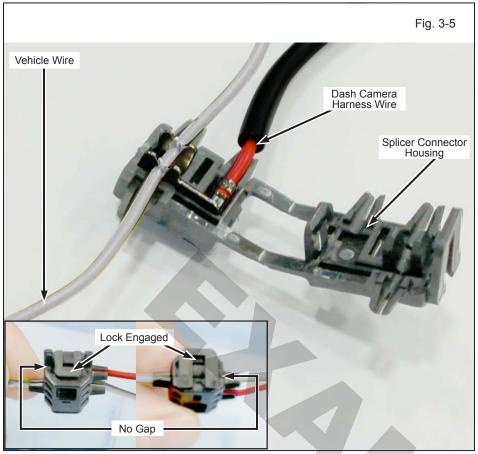


d. Secure both the Dash Camera wire and Ground wire to the vehicle harness with 1 Wire Tie (#5).



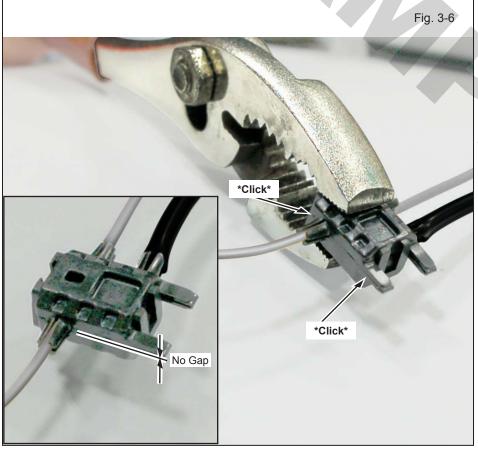
- e. Disconnect Connector F42 (40P, White) located on the left side of the blower motor.
- f. Remove the electrical tape closest to the connector securing the wires.

PROCEDURE



Wire Splicing Connector Example (steps g-i)

- g. Place the Vehicle Wire in the Splicing Connector housing.
- h. Fold the Splicing Connector Housing along the pleat line.
- Pinch the Splicing Connector's housing together until a click sound can be heard twice.

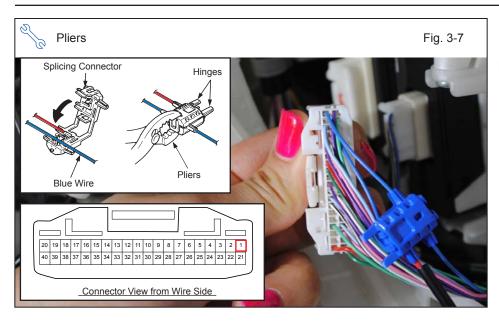




VERIFY: Ensure locks have engaged on both sides.



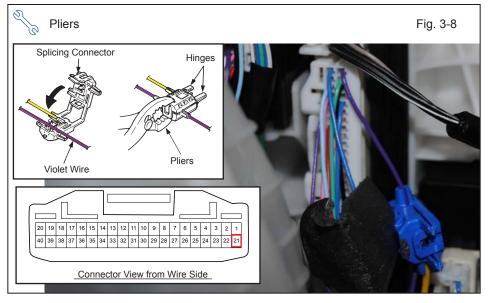
NOTE: Ensure there is no gap between the upper and lower half of the Splicing Connector locks.



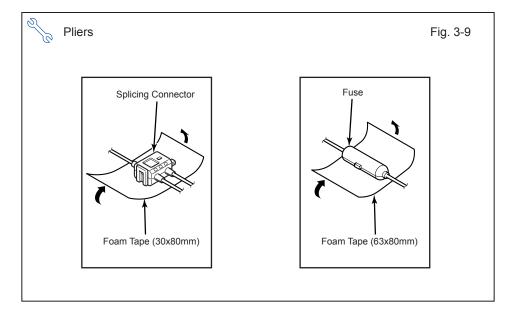
j. Route the Wire Harness with T-taps to the Connector F42.

NOTE: Reference steps g-i for Wire Splicing Connector example.

 k. Install the Wire Harness with the Red Wire Splicing Connector to the BLUE wire on Pin# 1 of Connector F42 (40P, White).



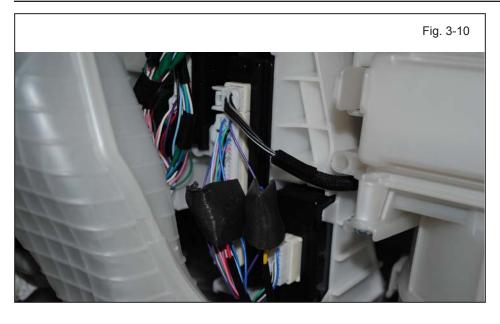
- NOTE: Reference steps g-i for Wire Splicing Connector example.
 - Install the Wire Harness with the Yellow Wire Splicing Connector to the VIOLET wire on Pin# 21 of Connector FN1 (40P, White).
- NOTE: Stagger the T-tap connections (do not place T-taps side by side).



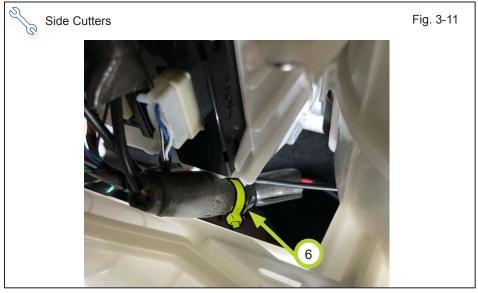
- m. Wrap the 2 Wire Harness Fuse using 2 (63x80mm) pieces of Foam tape.
- n. Wrap the Splicing connectors using 2 (30x80mm) pieces of Foam tape.

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PROCEDURE

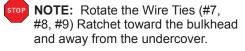


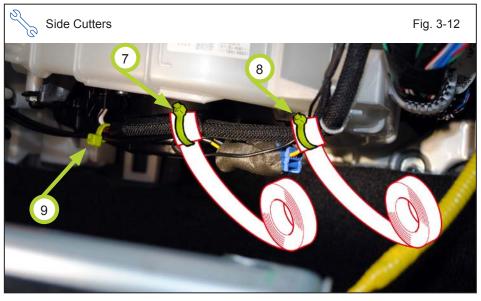
- o. Reconnect Connector F42 to the ECU.
- Route the Wire Harness with Fuses along the vehicle harness going towards underneath the blower motor.



q. Secure one of the Wire Harness Fuse to the vehicle wire harness with 1 Wire Tie (#6).

- Connect the Dash Camera Blue Connector to the Wire Harness Blue Connector.
- s. Wrap the Wire Harness Male Blue Connector with 1 piece of (30x80mm) sized Foam tape.
- NOTE: Prior to securing Wire Ties (#7, #8) apply electrical tape to the vehicle harness and dash camera wire.
 - t. Secure Wire Harness with the Ground wire to the vehicle harness with 1 Wire Tie (#7).
 - Loop the Ground Wire excess wire and route with the Dash Camera Harness along the vehicle harness and secure with 1 Wire Tie (#8).
 - v. Secure the Wire Harness to the vehicle harness with 1 Wire Tie (#9).





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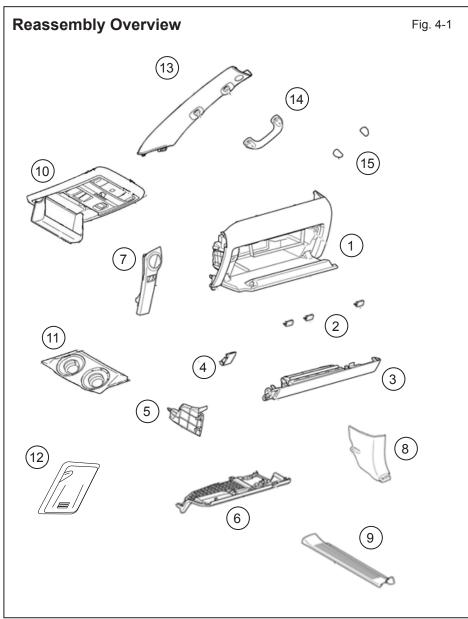
Side Cutters

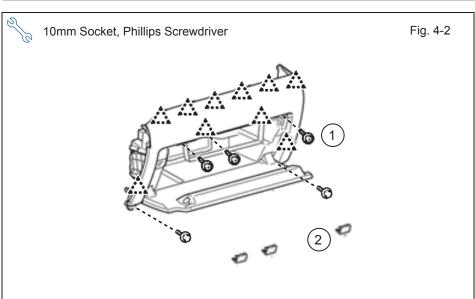
Fig. 3-13

w. Secure the Wire Harness Fuse and the excess Wire Harness to the vehicle harness using 1 Wire Tie (#10) as shown.



x. Bundle up as necessary the excess Ground Wire using electrical tape and secure with Dash Camera Wire Harness to the vehicle harness using 1 Wire Tie (#11) as shown.





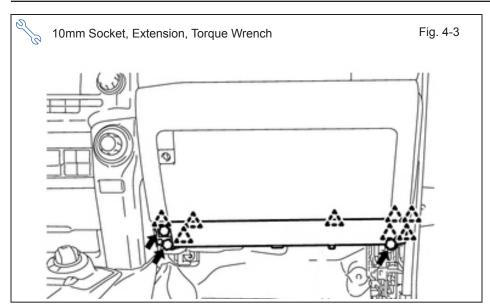
4. Vehicle Reassembly.

a. Reassemble the Vehicle.

| 1 | Lower Instrument Panel Sub- Assembly |
|-----|---|
| 2 | Instrument Panel Box Door Cover (3 pcs.) |
| 3 | Lower No. 2 Instrument Panel Airbag Assembly |
| 4 | Lower Instrument Cover LH |
| 5 | Front No. 2 Console Box Insert |
| 6 | No. 2 Instrument Panel Under Cover Sub-Assembly |
| 7 | No. 2 Instrument Panel Cluster Finish Panel Garnish |
| 8 | Cowl Side Trim Board RH |
| 9 | Door Scuff Plate Assembly |
| 10 | Map Light Assembly |
| 11 | Drive Motor Switch (if equipped) |
| 12 | No. 1 Forward Recognition Cover |
| 13 | Front Pillar Garnish RH |
| 14 | No. 1 Assist Grip |
| 15 | Front No.1 Assist Grip Plugs |
| ТОР | VERIFY: That panels fit together properly, with no uneven gaps. VERIFY: That all Connectors are plugged in. |

- b. Install the Lower Instrument Panel Sub-Assembly.
 - Install wires for glove box lamp,and install the lower instrument panel by attaching the 10 clips and guide.
 - · Install the 3 screws and 2 bolts.
- c. Install the Instrument Panel Box Door Covers (3).

PROCEDURE



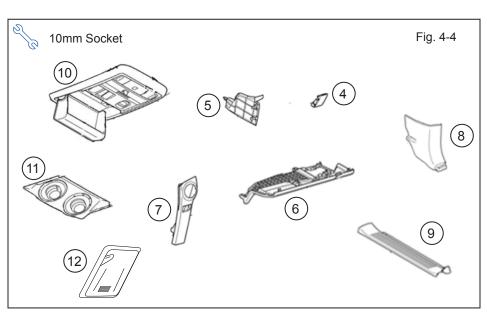
- d. Install the Lower No. 2
 Instrument Panel Airbag
 Assembly.
 - Attach the 8 claws to install the instrument panel airbag.
 - · Install the 3 bolts.



NOTE: Install the temp-set hook on knee airbag before securing airbag clips (triangle) and bolts. If this process is not followed, the airbag bracket may become deformed.



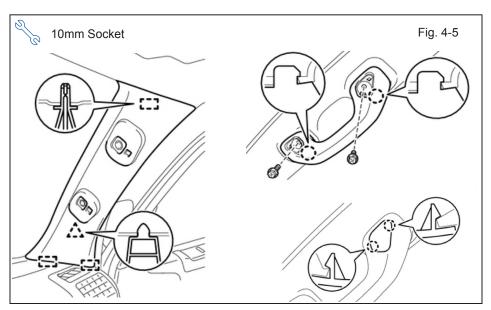
Torque: 88.5 in•lbf (10 N•m).



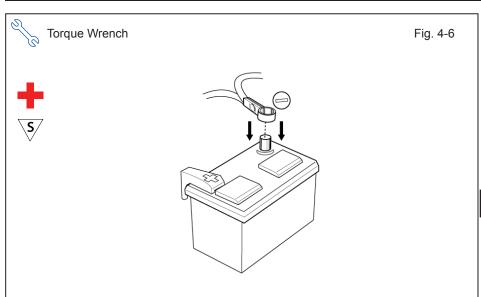
- e. Install the Lower Instrument Cover LH.
- Install the Front No. 2 Console Box Insert.
- g. Install the No. 2 Instrument Panel Under Cover Sub-Assembly.
- h. Install the No. 2 Instrument Panel Cluster Finish Panel Garnish
- i. Install the Cowl Side Trim Board RH.
- Install the Door Scuff Plate Assembly RH.
- k. Install Map Light Assembly.
- Install Drive Motor Switch (if equipped).
- m. Install No. 1 Forward Recognition Cover.
- n. Install the Front Pillar Garnish RH.
 - Attach the clip and 3 guides to install the front pillar garnish RH.
- o. Install the No. 1 Assist Grip.
 - Attach the 2 claws to install the No. 1 assist grip.
 - · Install the 2 bolts.

Torque: 9 lb-ft (12 N·m).

p. Install the Front No. 1 Assist Grip Plugs (2).



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q. Position the Negative Battery
 Cable at the original factory
 position and torque the nut.



Torque: 48 in•lbf (5.4 N•m)



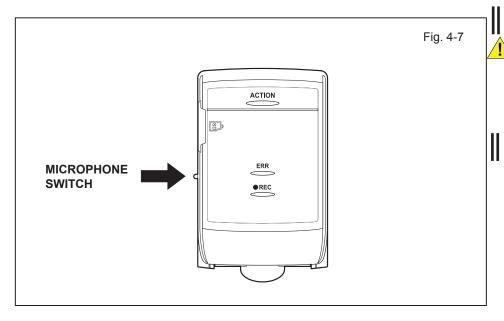
CAUTION: Do not touch the positive terminal with any tool when replacing the cable.

r. Clean up and remove trash.



s. Locate the microSD card in Dash Camera box and place in the plastic bag with Dashcam Owners Manual (prep for step aa.)

NOTE: Do not remove the microSD card from its protective container



t. Confirm the Microphone Switch at the LH side of the camera is in the "Off" position (fig. 4-7)

NOTE: Do not install the microSD card to the Dash Camera

- v. Find the Serial number which is the default Wi-Fi password on the label located on the bottom corner of the Dash Camera's kit box as shown.
- w. Remove the sticker from the Dash Camera box and tape to the back cover of the owners manual.
- x. (Alternate process) Write the password from the Dash Camera kit box on the back cover of the owners manual

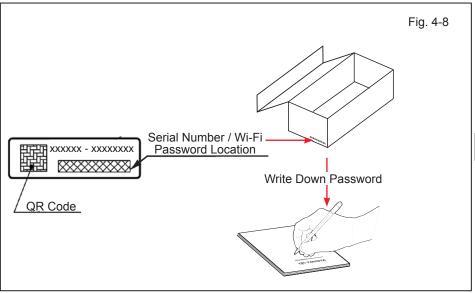


NOTE: Password is all in capital letters.



NOTE: A periodic beep may be heard from Dashcam when vehicle is powered-on due to missing SD card. To silence this beep, press the "Action" button.

aa. Sealed in its protective bag,place the Owners Manual andmicroSD card into the glove box.



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CHECKLIST – these points **MUST** be checked to ensure a quality installation.

| Check | Look For |
|-------|----------|
| | |
| | |
| | |
| | |
| | |

Vehicle Appearance Check

| Perform | | Look For | |
|---------|--|---|--|
| | After accessory installation and removal of protective cover(s), perform a visual inspection of the vehicle. | Ensure no damage (including scuffs and scratches) was caused during the installation process. | |

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CHECKLIST – these points **MUST** be checked to ensure a quality installation.

Vehicle Function Checks

| | Function | | | Function | |
|---|------------------|--|--|--|--|
| En | nter the Vehicle | | | | |
| | | Dome/Courtesy Lights | | Horn | |
| Sta | rt the V | /ehicle | | | |
| | | Starter | | Gauges | |
| | | Check Engine Light If the warning light remains on, it may indicate a system malfunction. | | ABS Light (if equipped) If the warning light remains on, it may indicate a system malfunction. | |
| | | Lamp Failure Sensor If the warning light remains on, it may indicate a system malfunction. | | Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction. | |
| | | Seat Belt Warning Light If the warning light remains on, it may indicate a system malfunction. | | Tire Pressure Monitoring System (TPMS) | |
| ٠ | | Air Bag Warning Light If the warning light remains on, it may indicate a system malfunction. | | Prior to TPMS activation and Pre-delivery Service (PDS) of the Vehicle the TPMS light will blink when IG is turned on. After TPMS activation and PDS of the Ve- | |
| | | Cruise Control Light (if equipped) | | hicle the TPMS light will illuminate for a few seconds and go off when IG is turned on. | |
| | | Mayday ECU (if equipped) | | | |
| Us | sing a N | firror or Assistant check the following. | | | |
| | | Trunk/Tailgate/Bed Lights (if equipped) | | Tail Lights | |
| | | Brake Lights | | Daytime Running Lights (if equipped) | |
| | | Backup Lights | | Marker Lights | |
| | | Clearance Sonar (if equipped) | | | |
| Stop the Engine, Place the Vehicle's IG in the ON position. | | | | | |
| | | Hazard Lights | | Turn Signal Lights | |
| | | Head Light | | Fog Lights (if equipped) | |
| | | High Beams | | Accessory Controls/Illumination (if equipped) | |
| | | Power Side Mirrors (if equipped) | | Convenience Memory Settings (if equipped) | |

CHECKLIST – these points **MUST** be checked to ensure a quality installation.

| | Function | | Function | |
|---|----------|--|----------|---|
| | | Front Wiper/Washer | | Rear Wiper/Washer (if equipped) |
| | | Power Sun/Moon Roof (if equipped) | | Rollover Side Curtain Air Bag Switch (RSCA) (if equipped) |
| | | Clock (if equipped) | | Navigation System (if equipped) |
| | | Audio/Video (if equipped) | | USB Connections (if Equipped) |
| | | Steering Wheel Audio Control (if equipped) | | HVAC |
| | | Front Windshield Defogger (if equipped) | | Rear Window Defogger (if equipped) |
| | | Side Mirror Defogger (if equipped) | | Accessory Power Socket (if equipped) |
| | | Massage Seats (if equipped) | | Heated/Vented Seats (if equipped) |
| · | | | | |
| | | Glove box Light (if equipped) | | Trunk Cancel Switch (if equipped) |
| · | | | | |
| | | Power Locks (if equipped) | | Power Windows (if equipped) |
| | | Power Seats (if equipped) | | Key Sensor Buzzer |

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