



PRADO

JUNE 2018 PRODUCTION ONWARDS

Part No: PZQ85-33270

Fitting Time: 45 minutes

Dash Camera Fitting Instruction

JUNE 2018 PRODUCTION ONWARDS

Part No: PZQ85-33270

General Notes

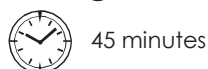
- Read through the fitting instructions before installation of accessory.
- Always install the accessory following the fitting instructions. Failure to do so may cause damage to the vehicle or the accessory.
- Ensure all recyclable discarded vehicle accessory components and packaging are recycled following local recycling regulations.
- It is always recommended that this accessory is fitted by a qualified Toyota Technician.
- Safely store and protect any removed vehicle components.
- Ensure all bare metal surfaces are protected using Automotive Bare Metal Primer and touch-up paint.
- Remove all metal swarf and dust from all vehicle surfaces if surface is used for accessory installation.

Safety Notes






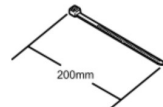









- Check that all work practices comply with safety standards.
- Please wear appropriate clothing and use safety equipment.



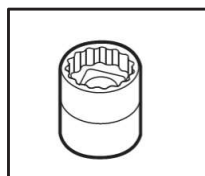
Fitting Time



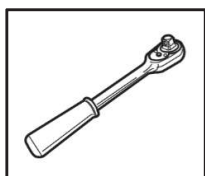
Parts Supplied

A  Dash camera module x 1	B  End cap x 1	C  Micro SD card x 1	D  Cable guide cord x 1	E  Dash camera wire harness x 1	F  200mm Cable ties x 18
G  Protection tape x 3 (NOT USED)	H  Harness tape x 2	I  Wire harness clip x 1 (NOT USED)	J  Blue splice connector, red wire (0.3) x 1	K  Blue splice connector, yellow wire (0.3) x 1	L  White splice connector, red wire (0.85) x 1 (NOT USED)
M  White splice connector, yellow wire (0.85) x 1 (NOT USED)	N  CLEANER Alcohol wipe x 1	O  Owner Manual			

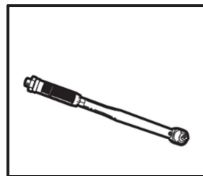
– Tools and Material Required



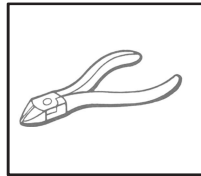
8mm and 10mm



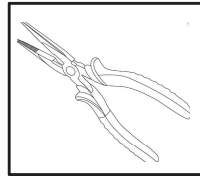
Ratchet



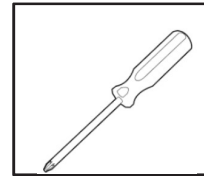
10mm Torque Wrench
(pre-set to 8.5Nm)



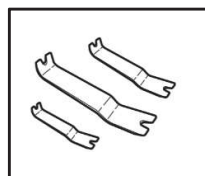
Side cutter



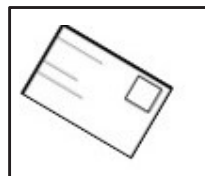
Plier



Phillip head screw



Trim removal tool



Standard business
card or driver
license or credit
card size paper
(55mm x 85mm)

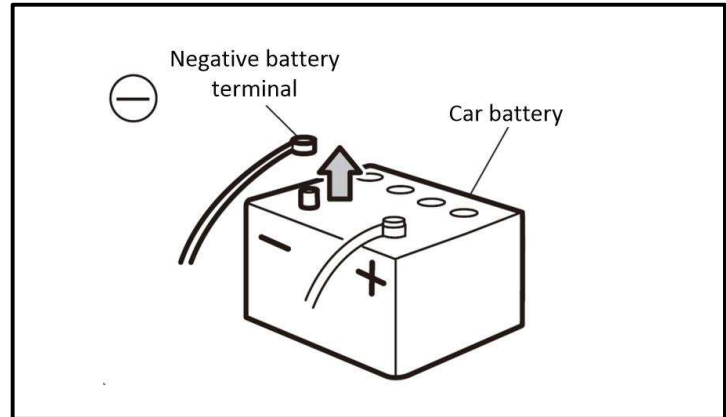
– Step 1 –

Important



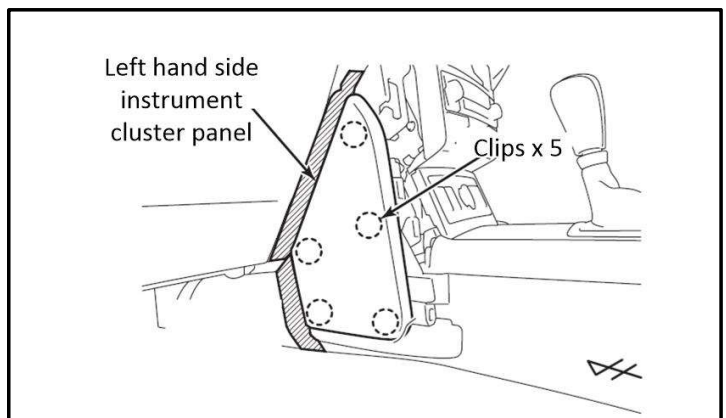
Always refer to the vehicle's Workshop Manual when removing vehicle components.

- Disconnect the negative battery terminal.



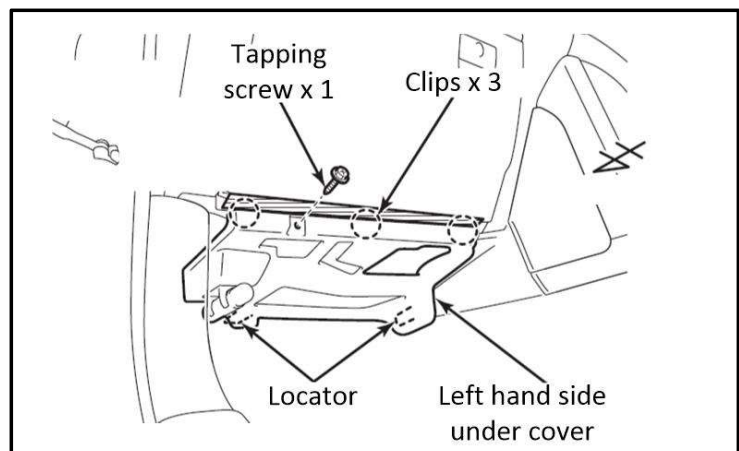
– Step 2 –

- Remove left hand side instrument cluster panel as shown.



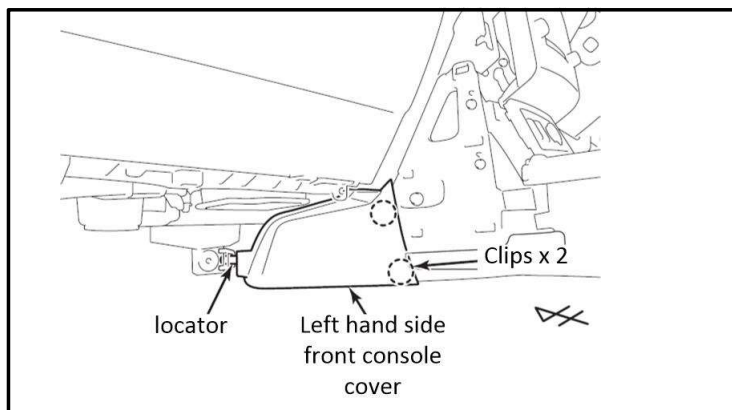
– Step 3 –

- Remove left hand side under cover as shown.



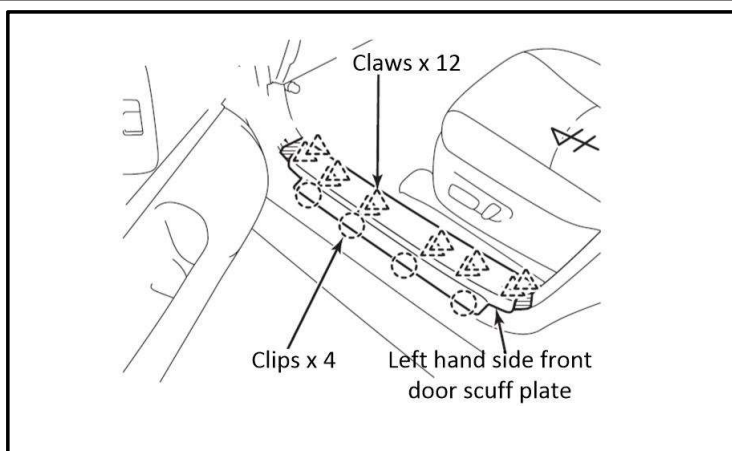
– Step 4 –

- Remove left hand side front console cover.



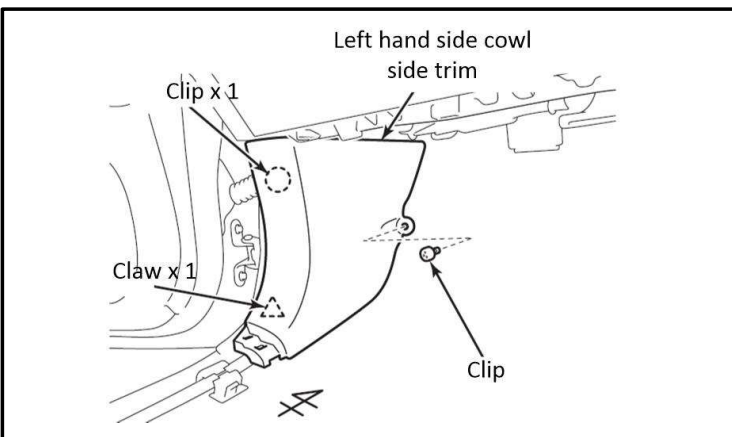
– Step 5 –

- Remove left hand side front door scuff plate as shown.



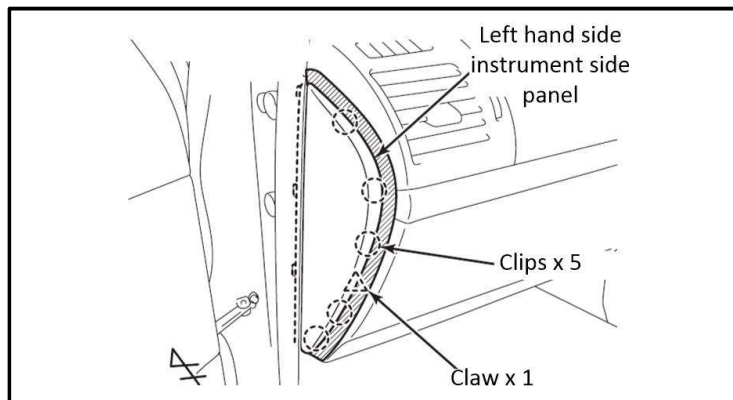
– Step 6 –

- Remove left hand side cowl side trim as shown.



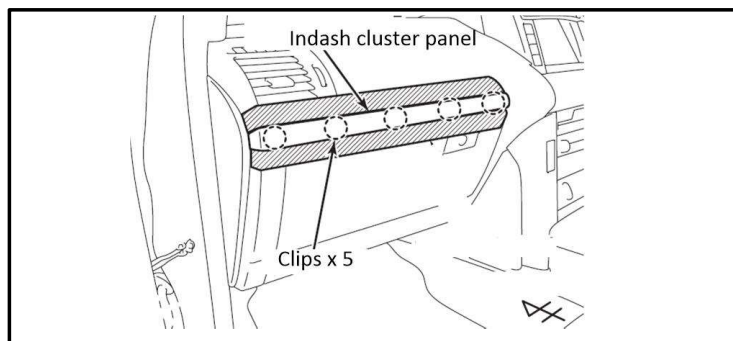
– Step 7 –

- Remove left hand side instrument side panel as shown.



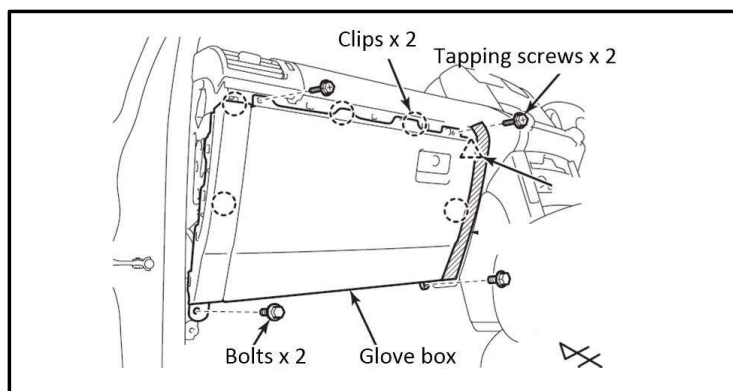
– Step 8 –

- Remove indash cluster panel as shown.



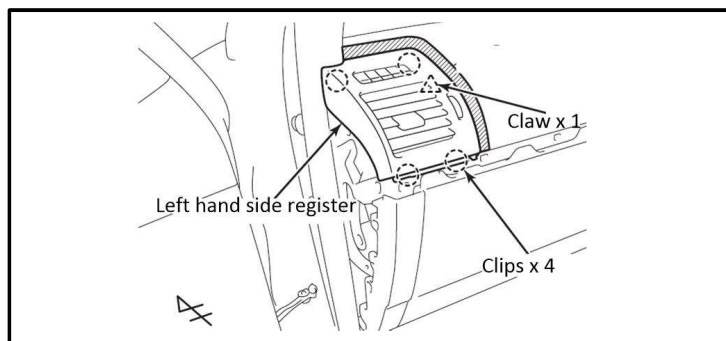
– Step 9 –

- Remove glove box as shown.



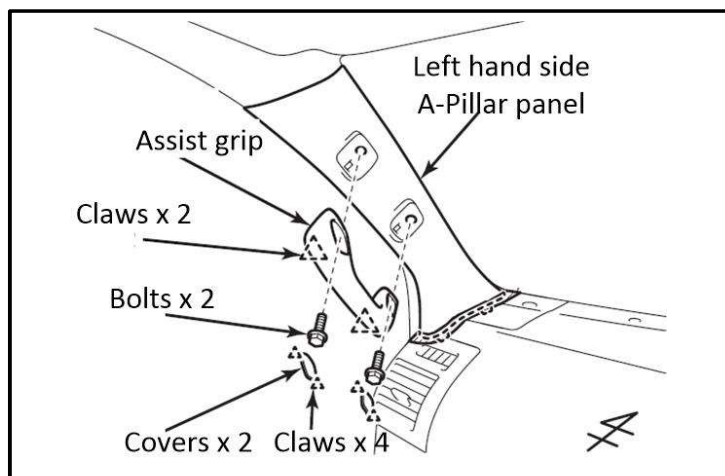
– Step 10 –

- Remove left hand side register as shown.



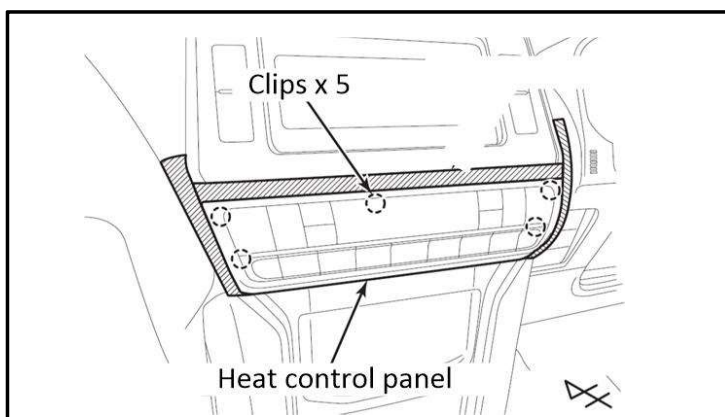
– Step 11

- Remove left hand side assist grip.
- Remove left hand side A-Pillar panel as shown.



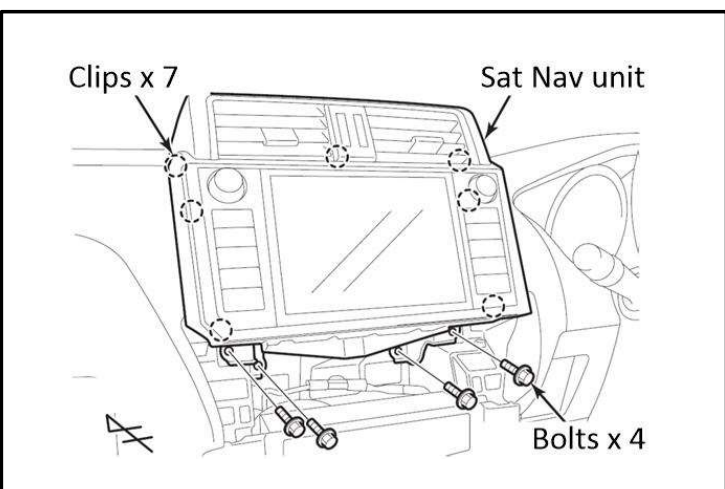
– Step 12

- Remove heat control panel as shown.



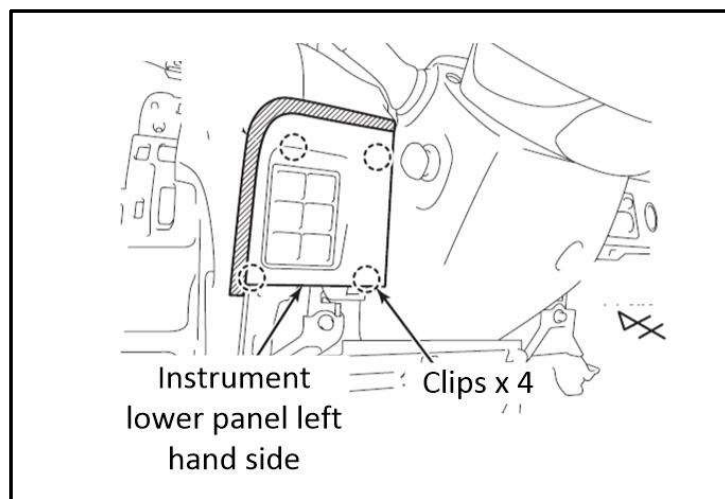
– Step 13

- Remove sat nav unit as shown.



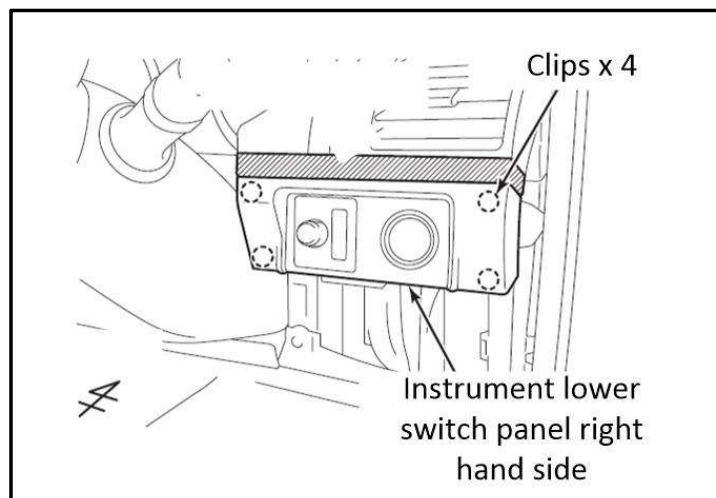
– Step 14

- Remove instrument lower panel left hand side.



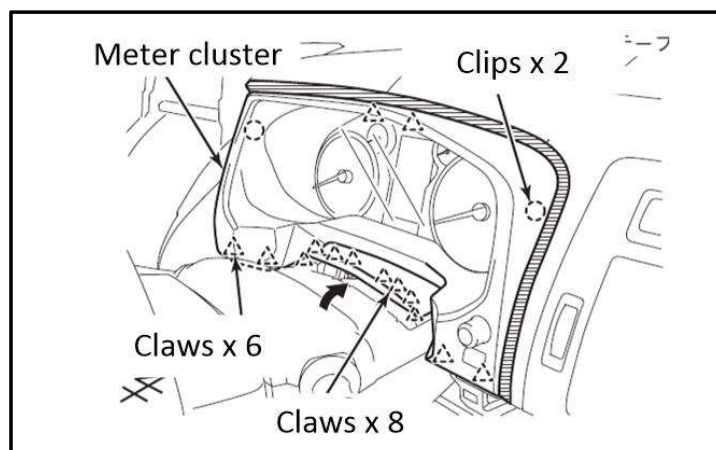
– Step 15

- Remove instrument lower switch panel right hand side as shown.



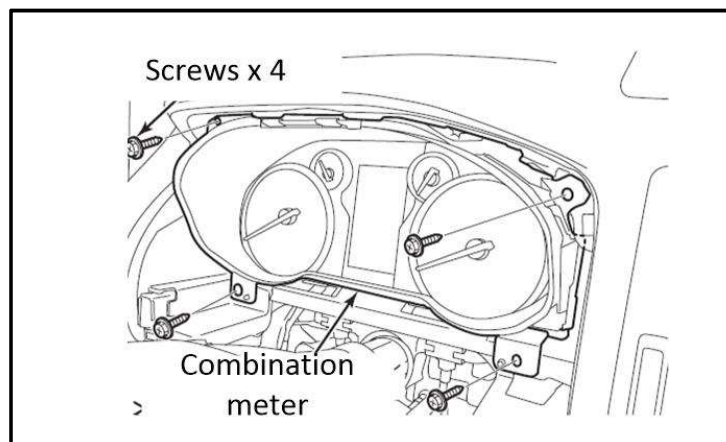
– Step 16

- Remove meter cluster as shown.



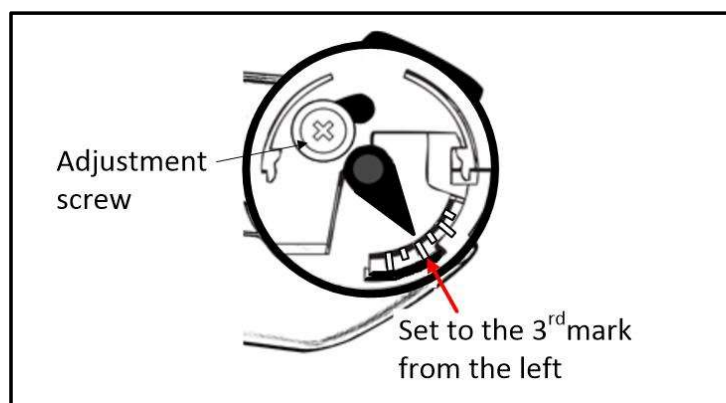
– Step 17 –

- Remove combination meter as shown.
- Remove all connectors on the combination meter.



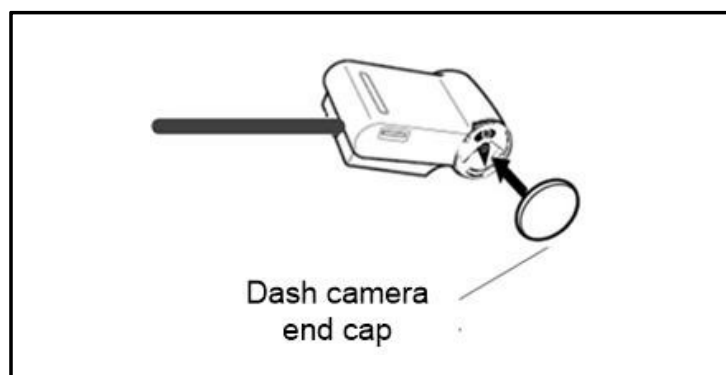
– Step 18 –

- Untighten the adjustment screw of the Dash camera
- Adjust the camera lens position to the 3rd mark from the left as per instruction



– Step 19 –

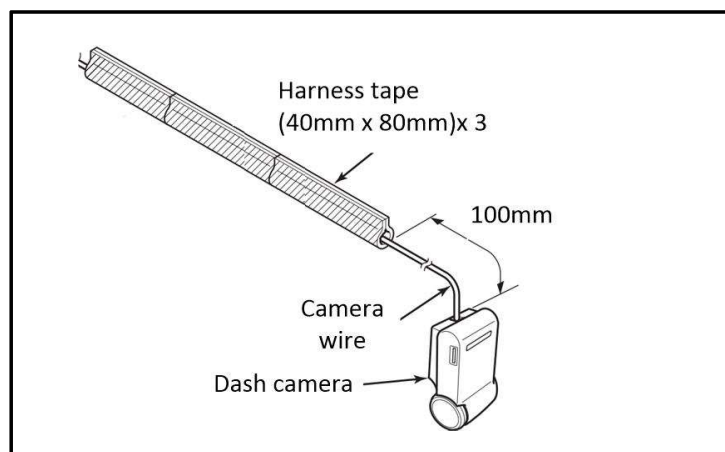
- Install the dash camera end cap




STEP 20 TO STEP 22 IS FOR VEHICLE WITHOUT RAIN SENSOR (for vehicle with rain sensor go straight to step 23)

– Step 20 –

- Prepare 3 harness tape (40mm x 80mm).
- Cover the dash camera wire as shown.

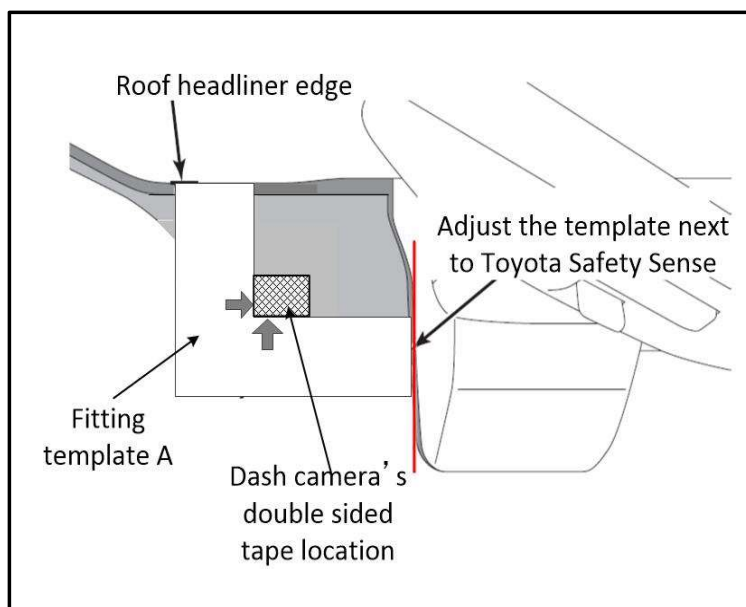


– Step 21 –

Important


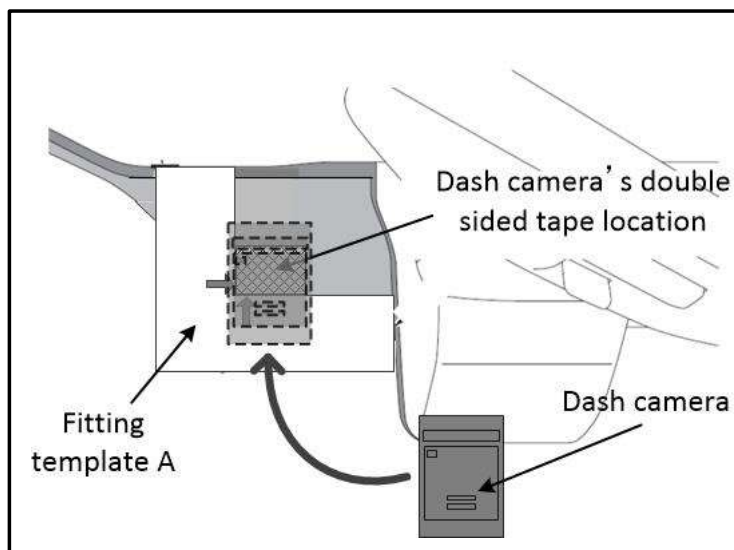
Prior to installing, clean inside of the windscreen in the area to be installed using alcohol wipe cleaner

- Prepare fitting template A and adjust the template to the roof headliner edge and Toyota Safety Sense sensor as shown.
- Use sticky tape to hold the template.



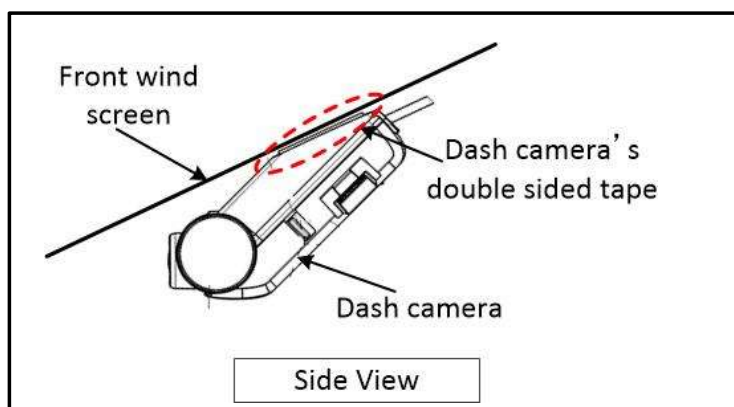
– Step 22 –

- Peel out the adhesive tape on the dash camera.
- Stick the dash camera, by adjusting it to the template next to "arrow" mark as shown.
- Remove the fitting template when the dash camera attached on the screen.



- Please see the side view for the installation reference.

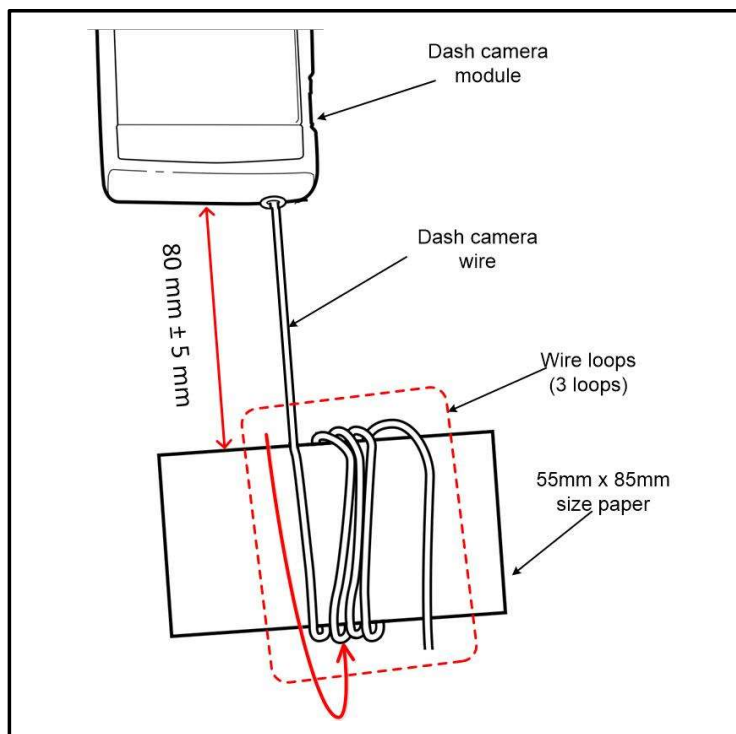
GO DIRECTLY TO STEP 28



STEP 23 TO STEP 27 IS FOR VEHICLE WITH RAIN SENSOR (for vehicle without rain sensor go straight to step 28)

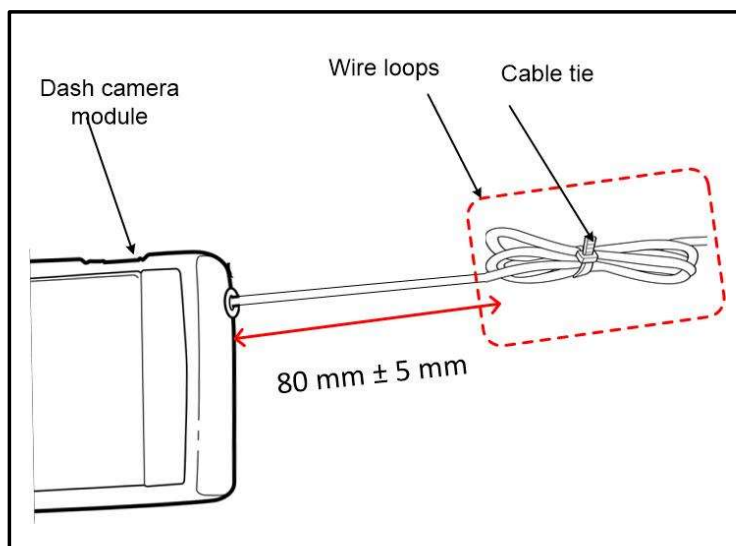
– Step 23

- Prepare standard business card or driver license size paper (55mm width and 85 to 90mm length)
- Take wire measurement 80mm (+/- 5mm) from dash camera module.
- From 80mm length, start making wire loops using standard driver license or credit card size paper (55mmx 65mm).
- Make 3 loops



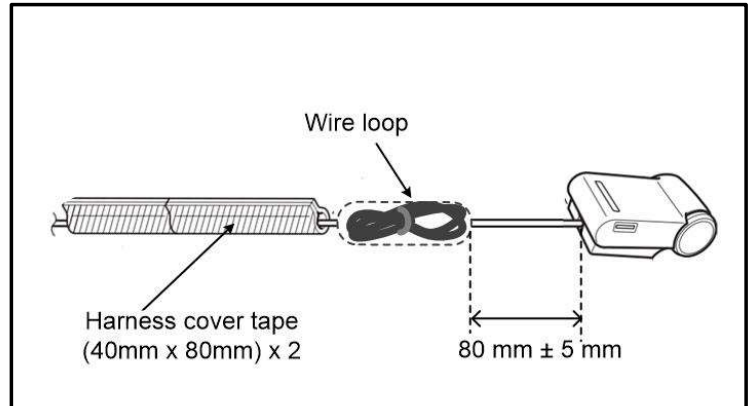
– Step 24

- Remove the paper from the wire loops.
- Cable tie the middle of the wire loops.
- Make sure the cable tie is tight.




– Step 25

- Prepare 2 harness tape (40mm x 80mm)
- Cover the dash camera wire next to wire loop as shown.

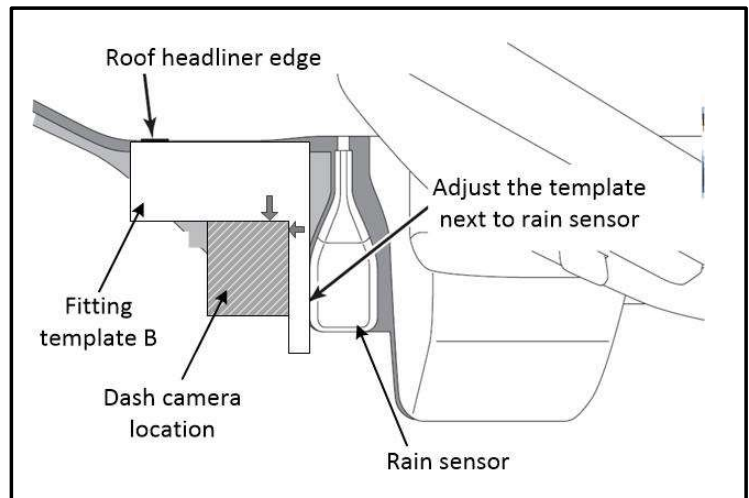


– Step 26

Important


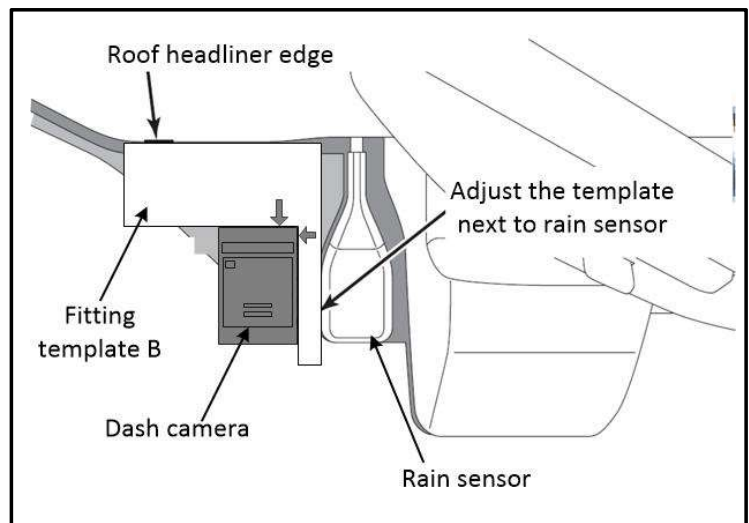
Prior to installing, clean inside of the windscreen in the area to be installed using alcohol wipe cleaner

- Prepare fitting template B and adjust the template to the roof headliner edge and rain sensor as shown.
- Use sticky tape to hold the template.



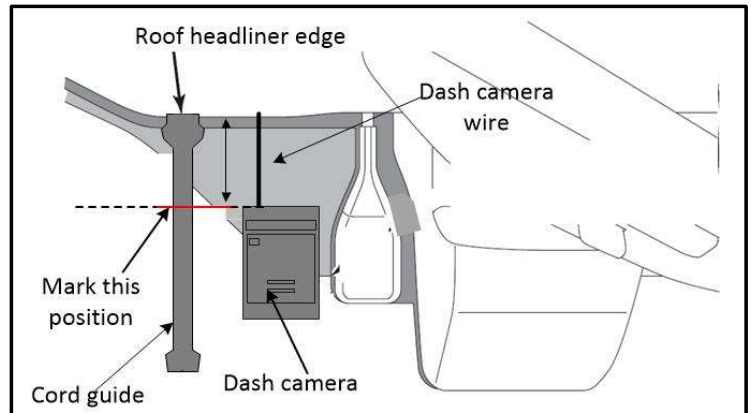
– Step 27

- Peel out the adhesive tape on the dash camera.
- Stick the dash camera, by adjusting it to the template next to "arrow" mark as shown.
- Remove the fitting template when the dash camera attached on the screen.

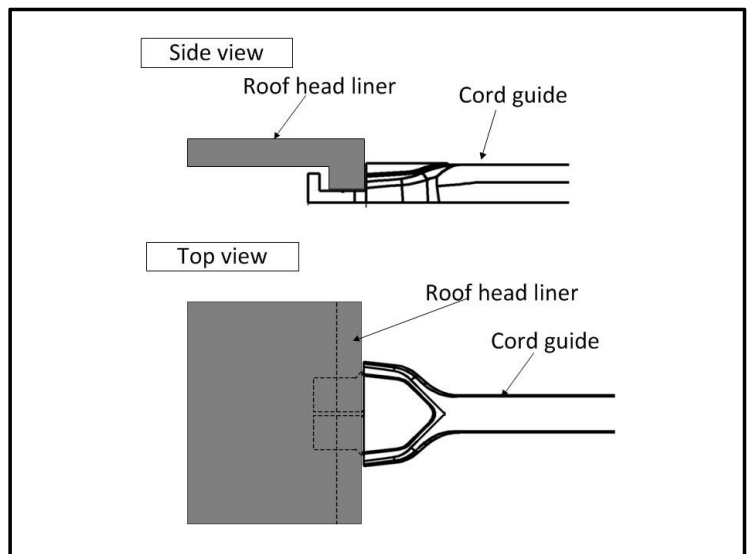


– Step 28

- Route the dash camera wire inside the roof headliner
- Prepare the cord guide and measure the length from the larger end to the dash camera
- Mark the desire length.

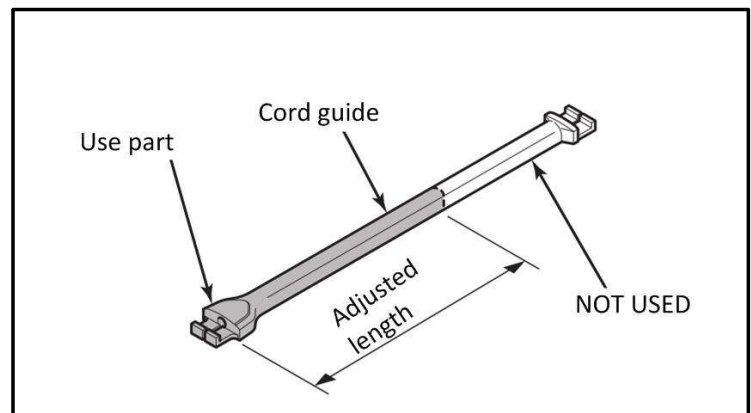


- Please see the side view and top view of the cord guide installation for reference.



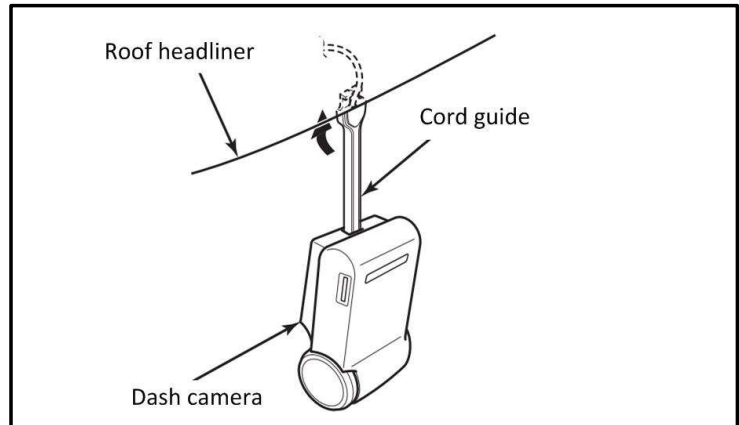
– Step 29

- After the measuring, cut the adjusted length of the cord guide.



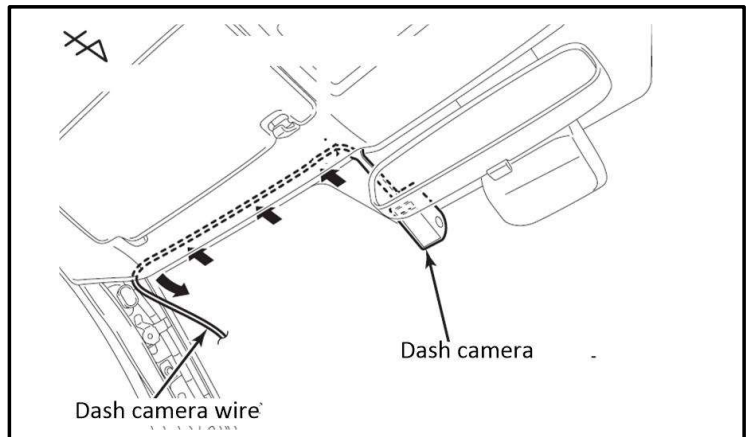
– Step 30 –

- Insert the Dash camera wire into the cord guide
- Install the cord guide to the roof headliner as shown.



– Step 31 –

- Route dash camera wire to left hand side A pillar area

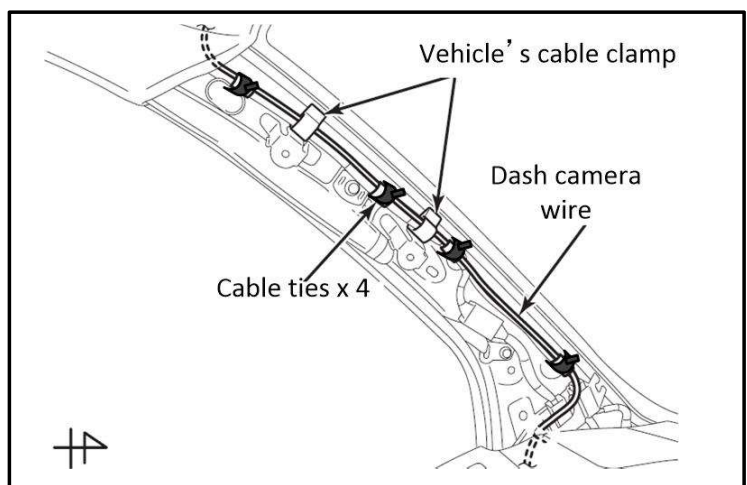


– Step 32 –

- Cable tie the dash camera wire to the existing vehicle wire.

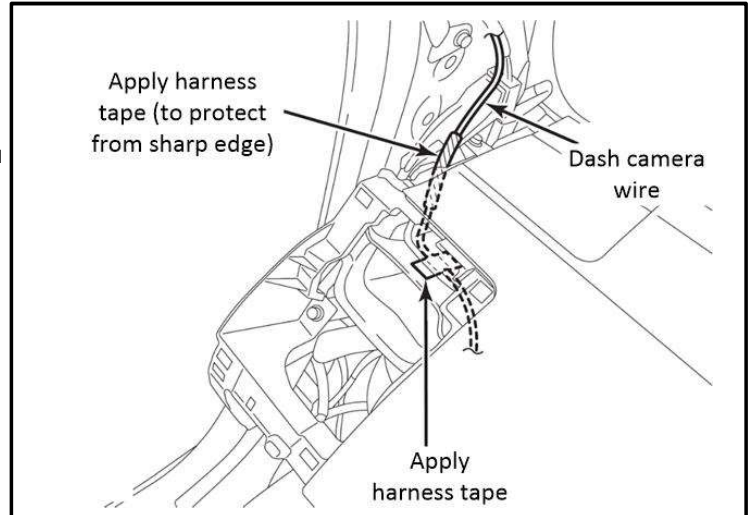
Important


Do not cable tie vehicle water hose



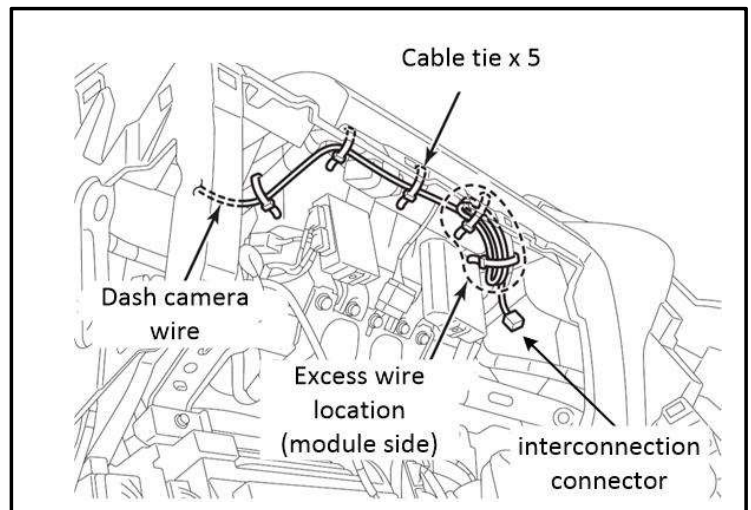
– Step 33

- Apply harness tape on to the dash camera wire to protect from sharp edges
- Pass through the wire to the glove box area



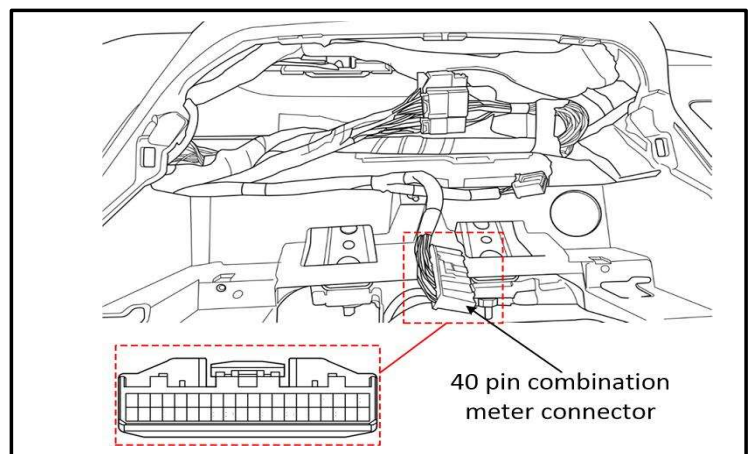
– Step 34

- Route the wire to the glovebox area
- Cable tie the wire on to the vehicle reinforcement bar.
- Bundle and cable tie the excess wire on the right hand side of the reinforcement bar as shown.
- Make sure the inter connection connector is in reachable.



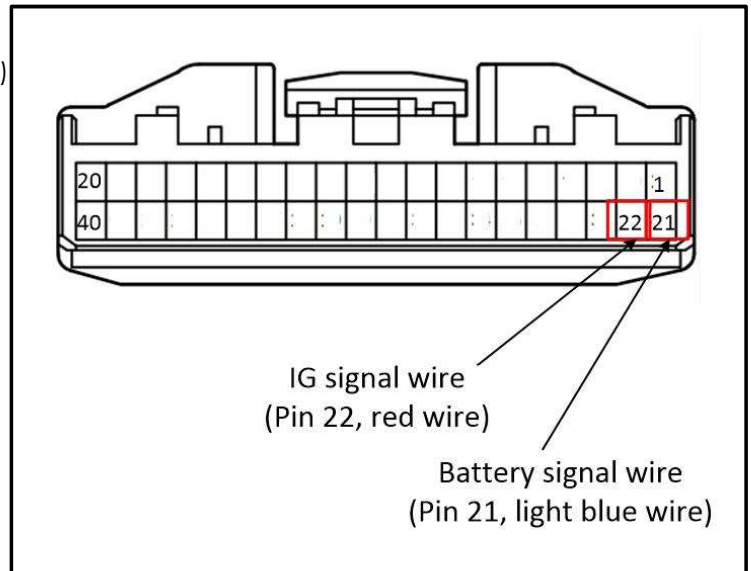
– Step 35

- At the combination meter area, locate 40 pin combination meter connector.
- Peel the harness tape to get easy access to the wire signal.



– Step 36 –

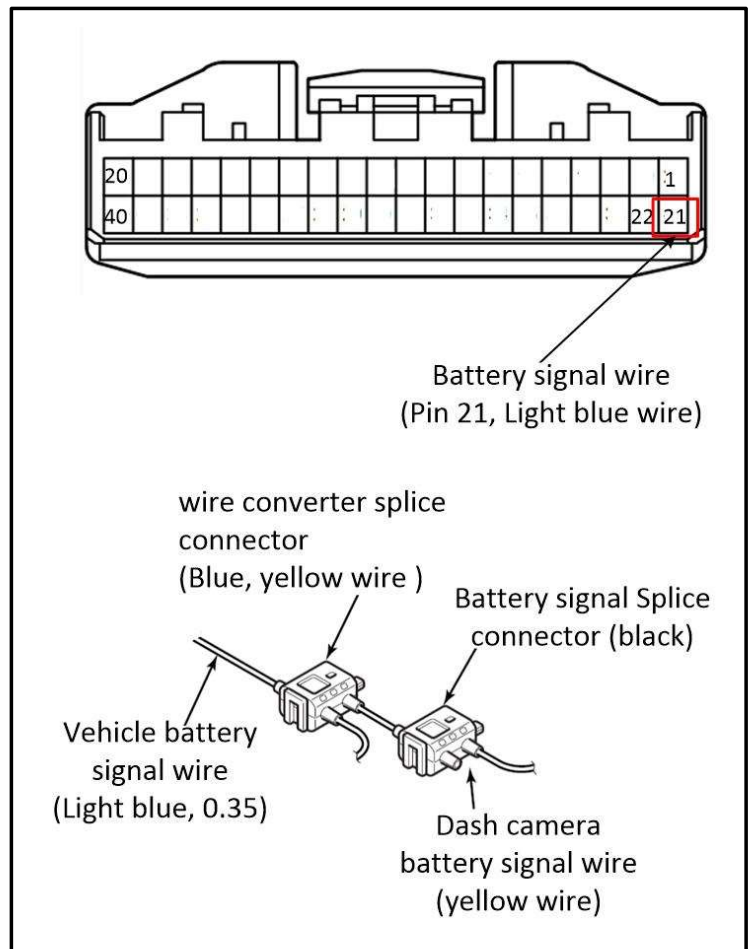
- Locate Battery signal (pin 21, light blue wire) and IG signal (Pin 22, red wire) on the combination meter connector



– Step 37 –

Battery signal installation

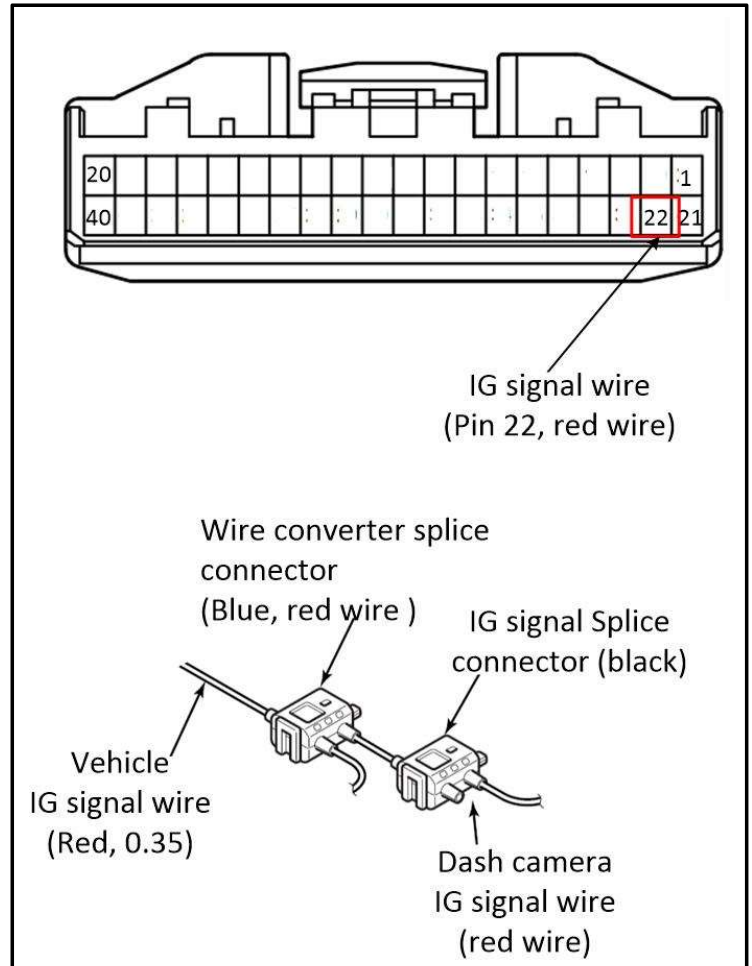
- Prepare yellow wire Blue Splice connector.
- Splice yellow wire of the Blue Splice connector using Black Splice connector yellow wire
- Locate the vehicle Battery signal (light blue wire pin no 21)
- Splice the vehicle Battery signal using Blue Splice connector with yellow wire.



– Step 38

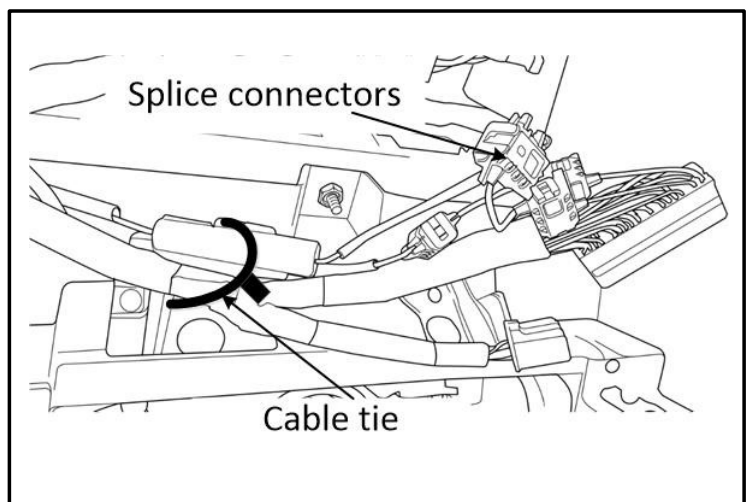
IG signal installation

- Prepare red wire Blue Splice connector.
- Splice red wire of the Blue Splice connector using Black Splice connector red wire
- Locate the vehicle Battery signal (Red wire pin no22)
- Splice the vehicle IG signal using Blue Splice connector with red wire.



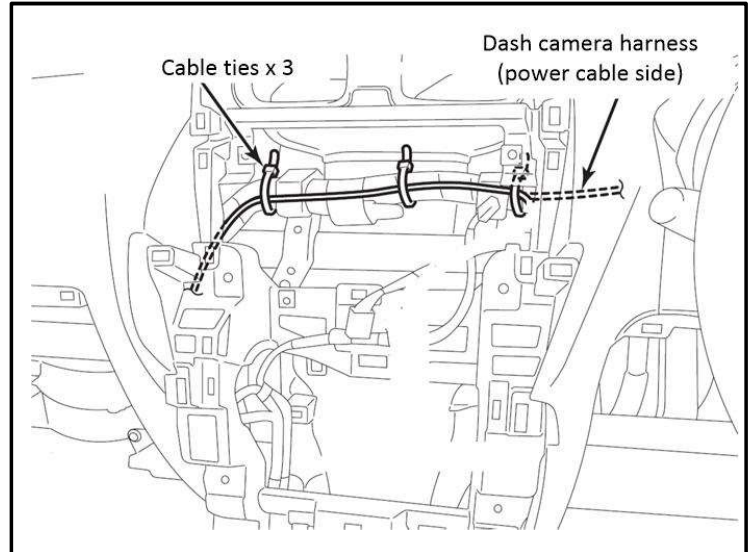
– Step 39

- Cable tie the wire to the existing vehicle harness.
- Re tape the exposed harness with PVC tape.



– Step 40

- Route the dash camera harness (power cable side) to glovebox area through the centre console area.
- Cable tie the wire on the existing vehicle harness.



– Step 41

Ground signal installation

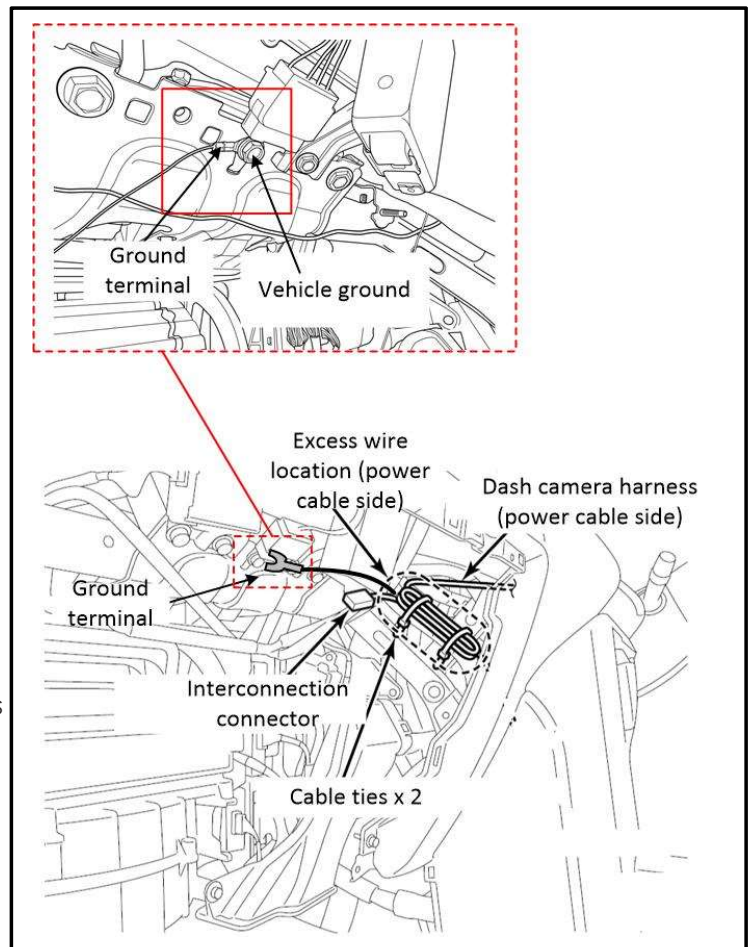
- Locate vehicle ground signal near the vehicle reinforcement bar as shown.
- Loosen the vehicle ground terminal's bolt.
- Insert the dash camera ground terminal.
- Tighten back the bolt.

Important



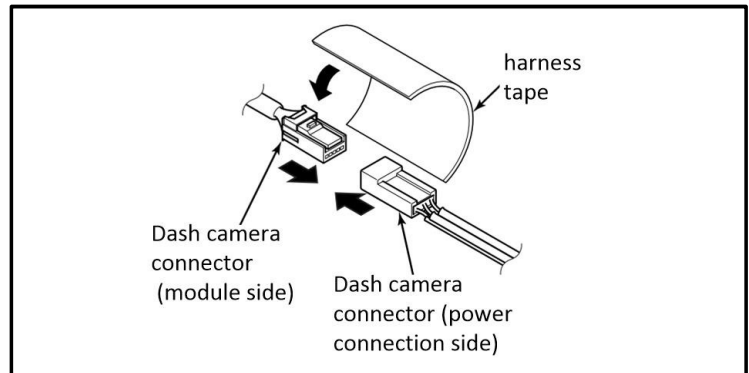
Re-install bolt to 8.5N.m.

- Cable tie the excess wire on the existing vehicle harness on the right hand side of the glovebox area.
- Make sure the interconnection connector is reachable.



– Step 42 –

- Connect module side and power side interconnection connector.

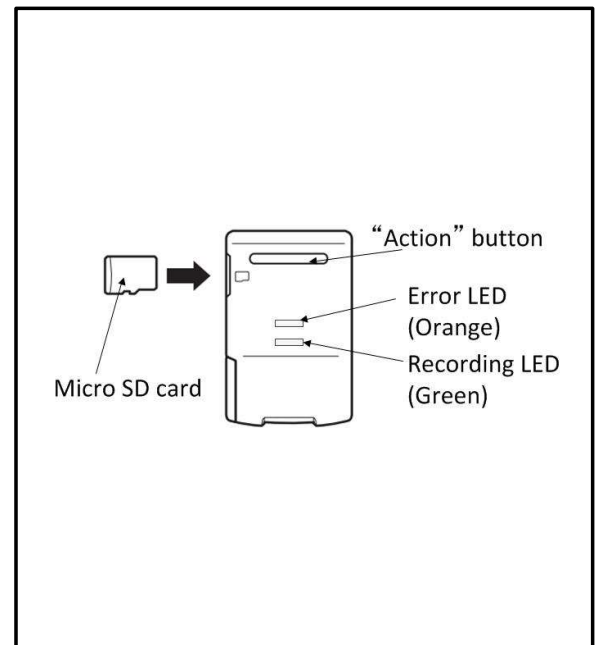






– Step 43 –

Dash Camera Initial Setting

- 1) Insert the Micro SD card into the Dash Camera.
- 2) Re connect the battery
- 3) Take the vehicle outside and park in open area to get proper GPS signal.
- 4) Turn off the power (ACC OFF) and wait until the Dash Camera LED light is off (for about 1 minute)
- 5) Perform the calibration setting. Press and hold "Action" button and turn the vehicle engine ON.
- 6) The Dash Camera will start the booting process. When booting process completed there will be a double high tone "beep" sound and green LED light will switch ON. Then release the "Action" button. If there is no "beep" sound, repeat step 4) – 6) again.
- 7) Switch OFF the vehicle engine, and wait until the Dash Camera LED light is OFF (for about 1 minute).
- 8) Start the vehicle engine again

Check the error light. If the error light is still ON, repeat step 7) again. Error light will switch OFF when GPS signal acquired.



	Important Refit all removed parts and secure all fasteners to the Service Manual torque specifications.
	Important Reprogram all radio stations and clock settings by referring to the vehicle's owner manual.
	Please place the owner manual in the glove box after installation is completed.
	Important Re-connect battery terminal. Battery Post terminal to be torqued to 5.5Nm +/- 2Nm

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DASH CAMERA CIRCUIT DIAGRAM

