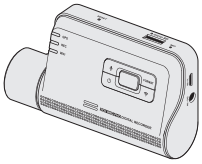
THINKWARE
DASH CAM

AQ08500070

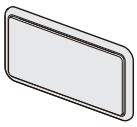
Installer Manual

Installing a **Thinkware**
Dual Camera System in your Vehicle

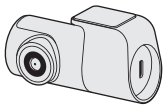
PACKAGE INCLUSIONS



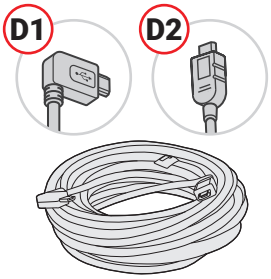
A **AQ0850007A**
Front Camera



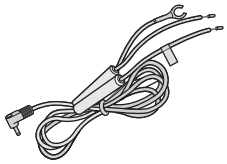
B **AQ0850007B**
Front Camera Mount



C **AQ0850007C**
Rear Camera

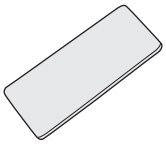


D **AQ0850007D**
Cable for rear camera to connect to front camera



E **AQ0850007E**
Hardwire Cable includes fuse taps

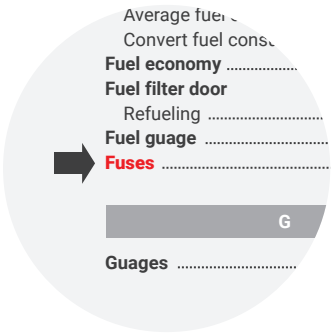
F **AQ0850007F**
64G SD Card



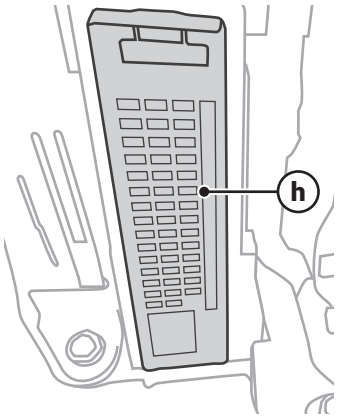
G **AQ0850007G**
Extra adhesives for front & rear cameras

Fuse Tap Fitment Method:

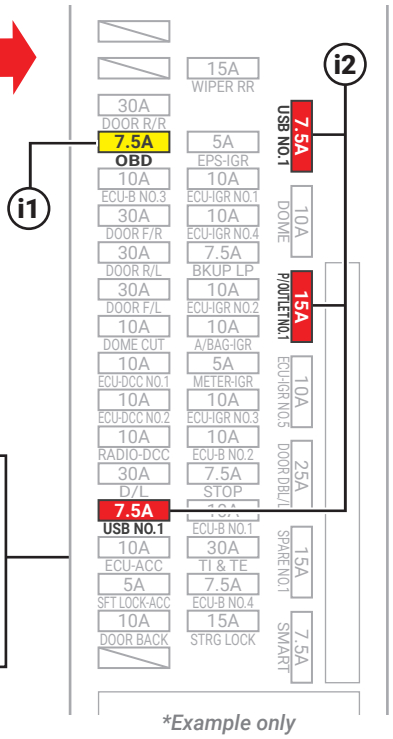
01 | Owner's Manual Index: Fuses



02 | Go to you Instrument panel fuse box **(h)** location.



03 | Check for a fuse connected to battery (B+) **(i1)** and a fuse connected to ACC **(i2)**



*Example only

Important

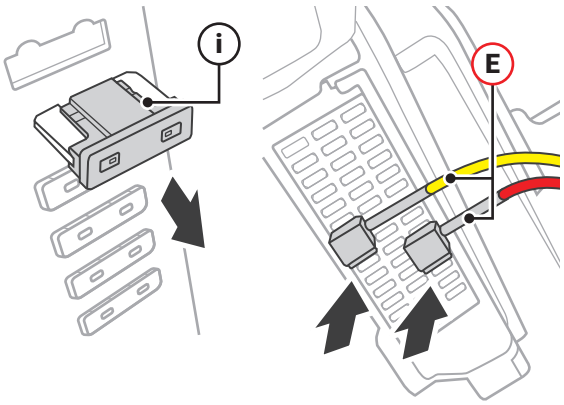
Avoid fuses related to safety systems.

Check ACC signal is 12V when IG ON, and 0V when vehicle OFF.

B+ Fuse (Yellow) examples:
- OBD

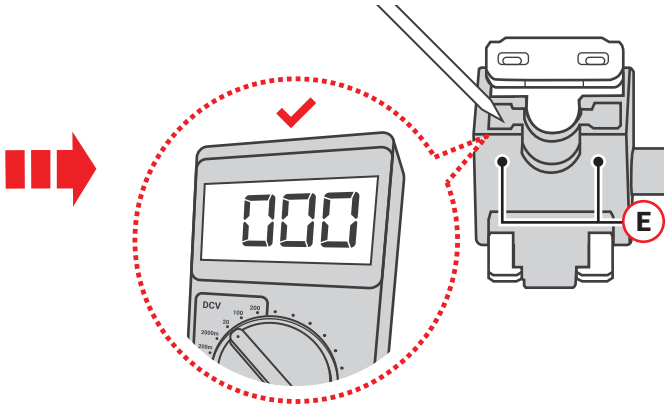
ACC (Red) examples:
- USB
- Power Outlet No.1

04 | Remove chosen vehicle fuses **(i)**. Replace with correct fuse taps **(E)** (check wire labels to connect to correct fuse location)

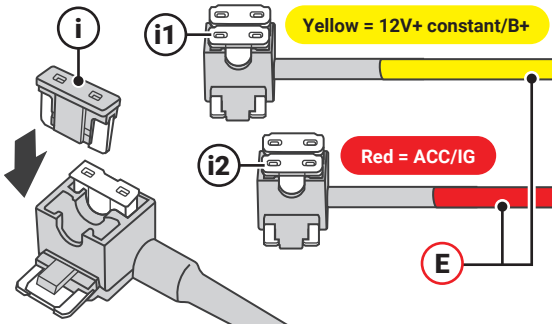


05 | Check voltage across fuse tap terminal **(E)**

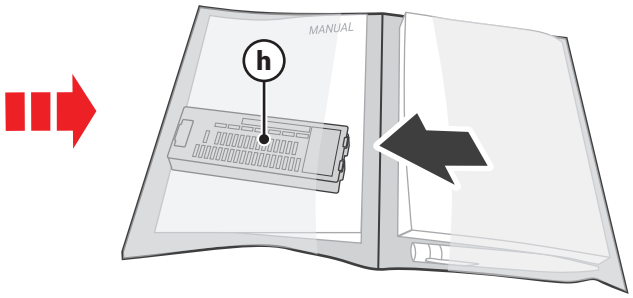
- If 0V, correct
- If 12V, swap orientation



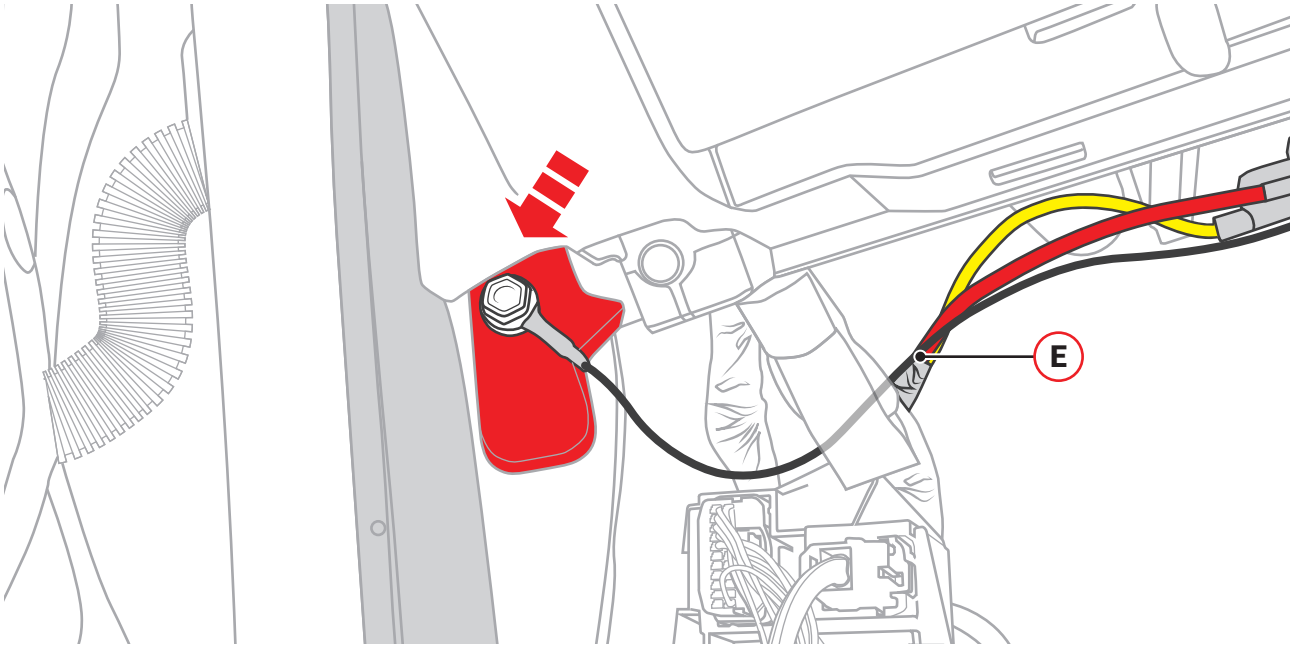
06 | Fit vehicle fuses **(i)** into fuse taps **(j)**.



07 | Place fuse cover in manual booklet.



The ring terminal ground wire on the hardwire cable **(E)** needs to be connected to a chassis ground. It is recommended utilising an existing 10mm factory bolt by loosening slightly and sliding the ground terminal between the bolt and the chassis. Tighten the 10mm bolt afterwards.



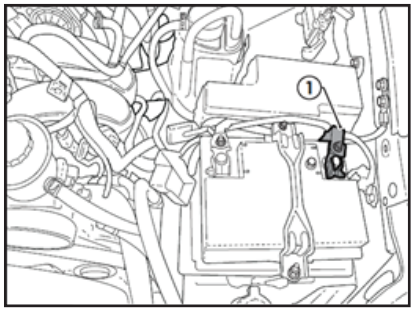
Installation Steps:

Important! Disconnect the negative battery terminal before commencing installation of this product. Ensure installation connections are secure before reconnecting.

Important

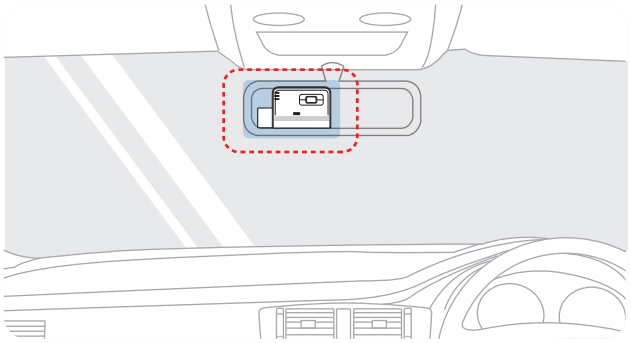
Always refer to the vehicle's Workshop Manual when removing vehicle components

- Note down all clock and radio settings
- In the engine bay disconnect the negative battery terminal **(1)**

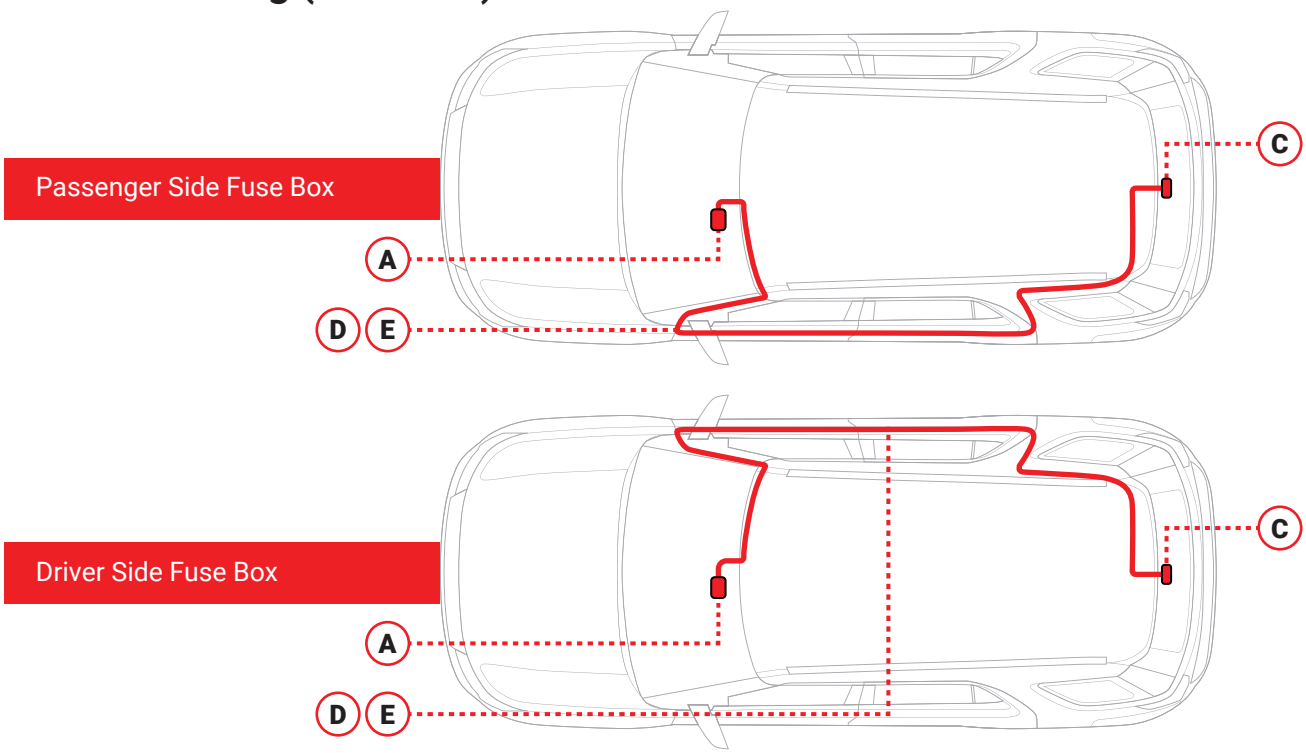


Front Camera mounting location

The front camera mounting be to the left side of the rearview mirror, or in front of the rearview mirror. Avoid mounting the camera on the right-hand side which could obstruct the driving view. Ensure rear view mirror adjustment is not impacted by chosen front camera location.



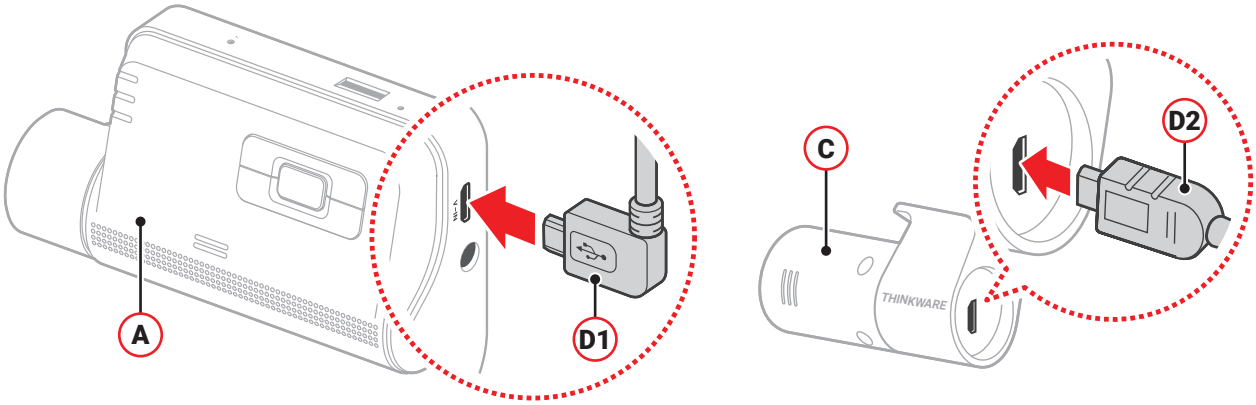
Harness routing (Overview):



Routing the camera cables (D) + (E):

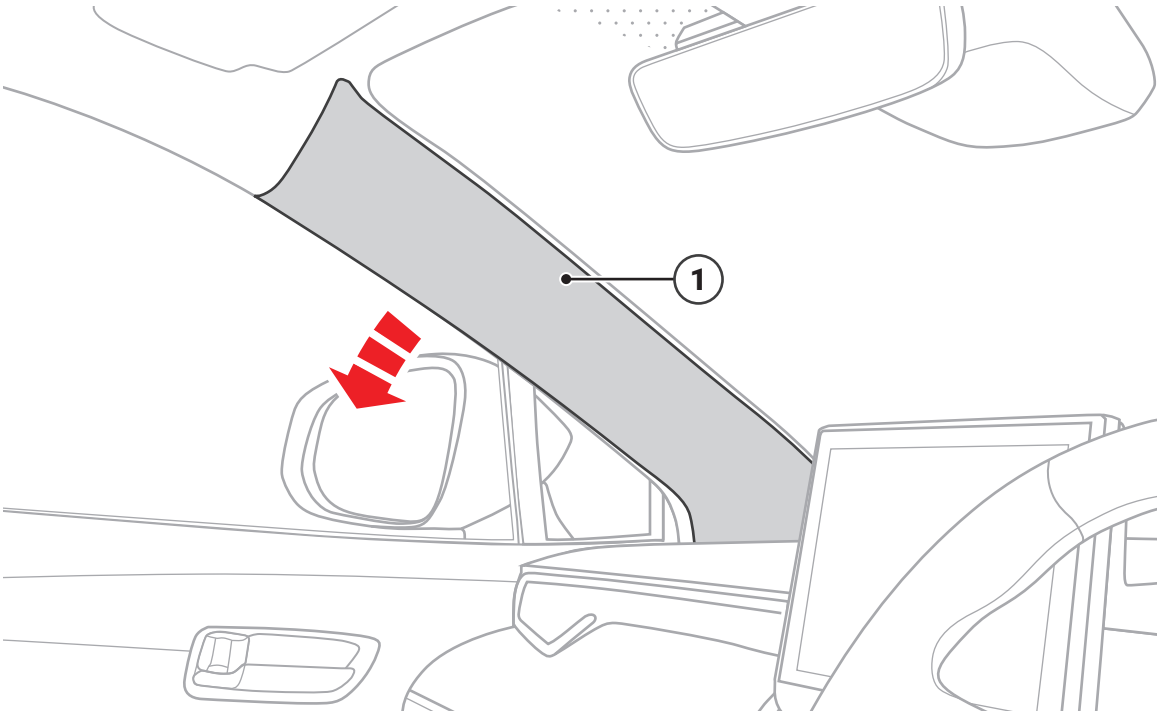
Rear camera cable **(D)** + **(E)** should be tucked into the headlining at the closest point of the rearview mirror towards the A-Pillar **(1)**.

Note: The right-angled connector (D1) plugs into the front dash camera (A), the connector to run through the vehicle to connect into the rear camera (C) will be the straight micro-USB connector (D2).

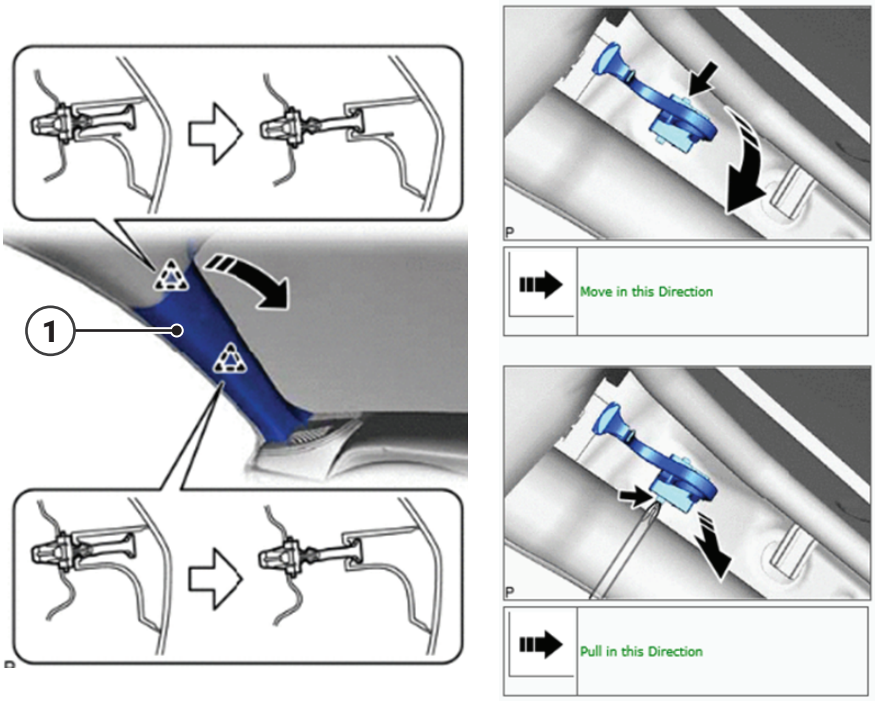


Run the cables **(D)** and **(E)** in line with the OEM's cable management and secure with cable ties down the A-pillar **(1)**, cable ties should be utilised every 200mm. Continue to run both sets of cables towards the passenger kick panel **(2)**.

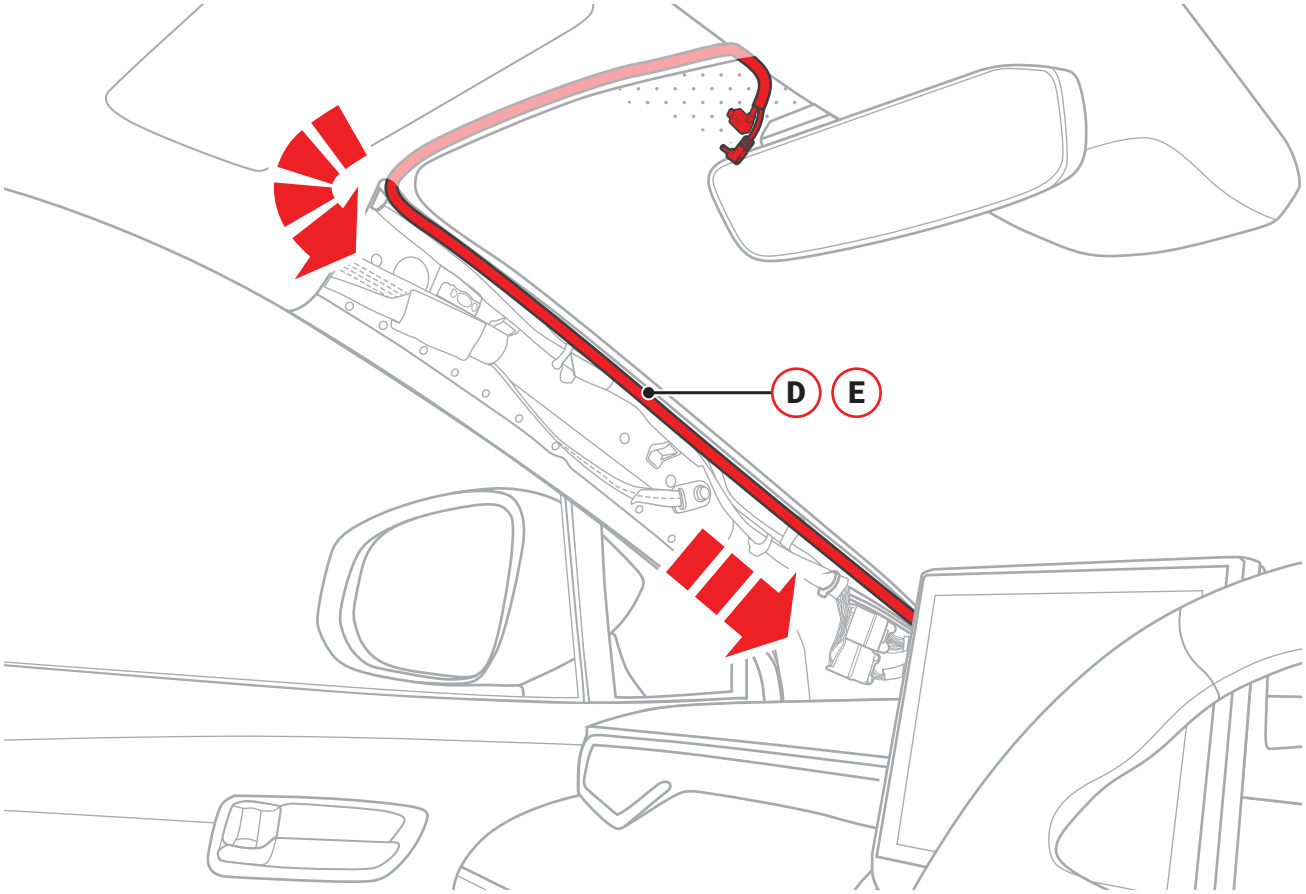
Note: To ensure the dash cam's wiring doesn't impede with the deployment of the airbag, avoid routing cables across or over any airbag. Always route cables behind any curtain airbag at the A-Pillar (1) if necessary and follow vehicle wire harness where possible.



Removing the A-Pillar clips and plastic trim:



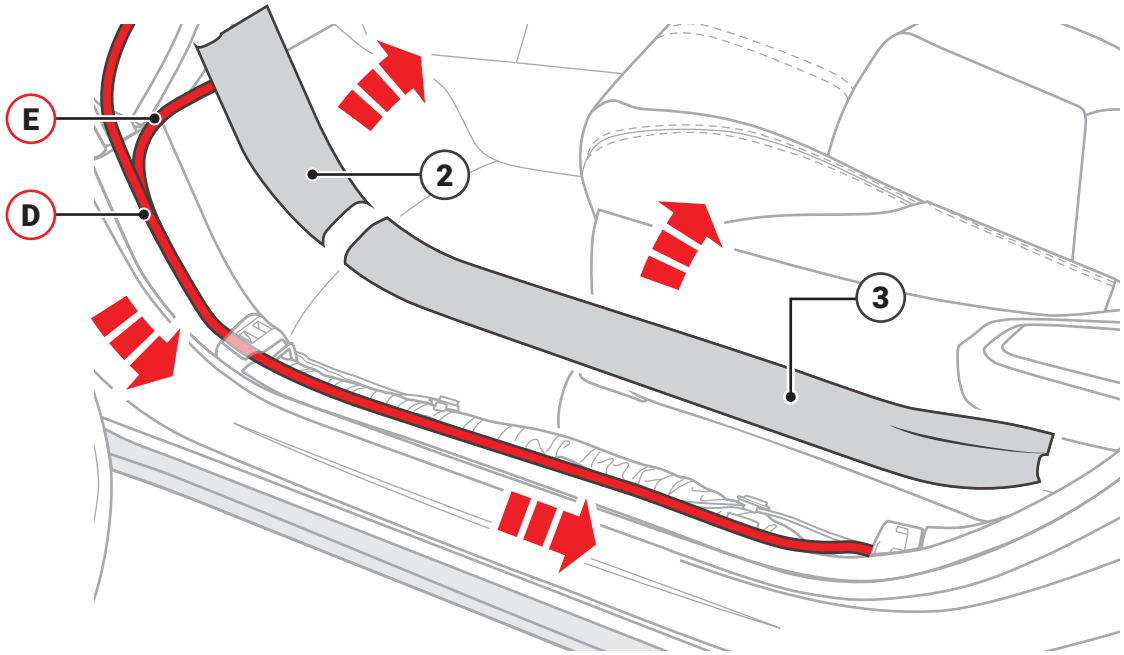
Routing the camera cables D + E continued:



Routing the rear camera cables (D):

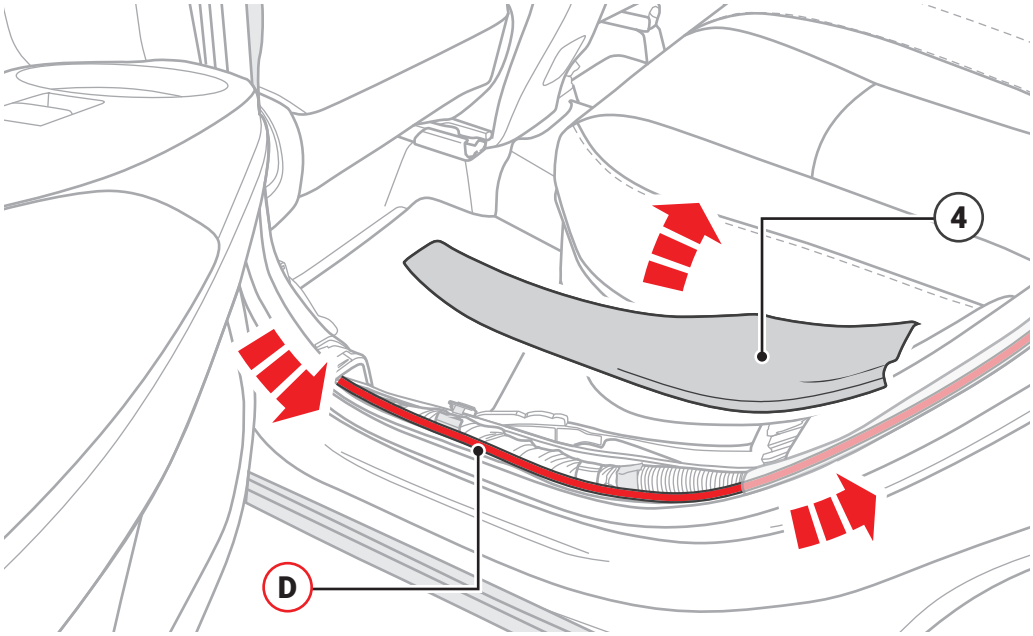
Prepare the rear camera cable **(D)** path by removing the plastic door sill trims located at the edge of the interior floor. You will also need to remove the kick panel **(2)** and front scuff plate **(3)** with a pry tool. After these panels are removed, continue to run the rear camera cable **(D)** through the cable channel towards the rear of the vehicle.

Note: Secure the cable with cable ties in roughly 200mm intervals, following vehicles OEM cable management where possible.



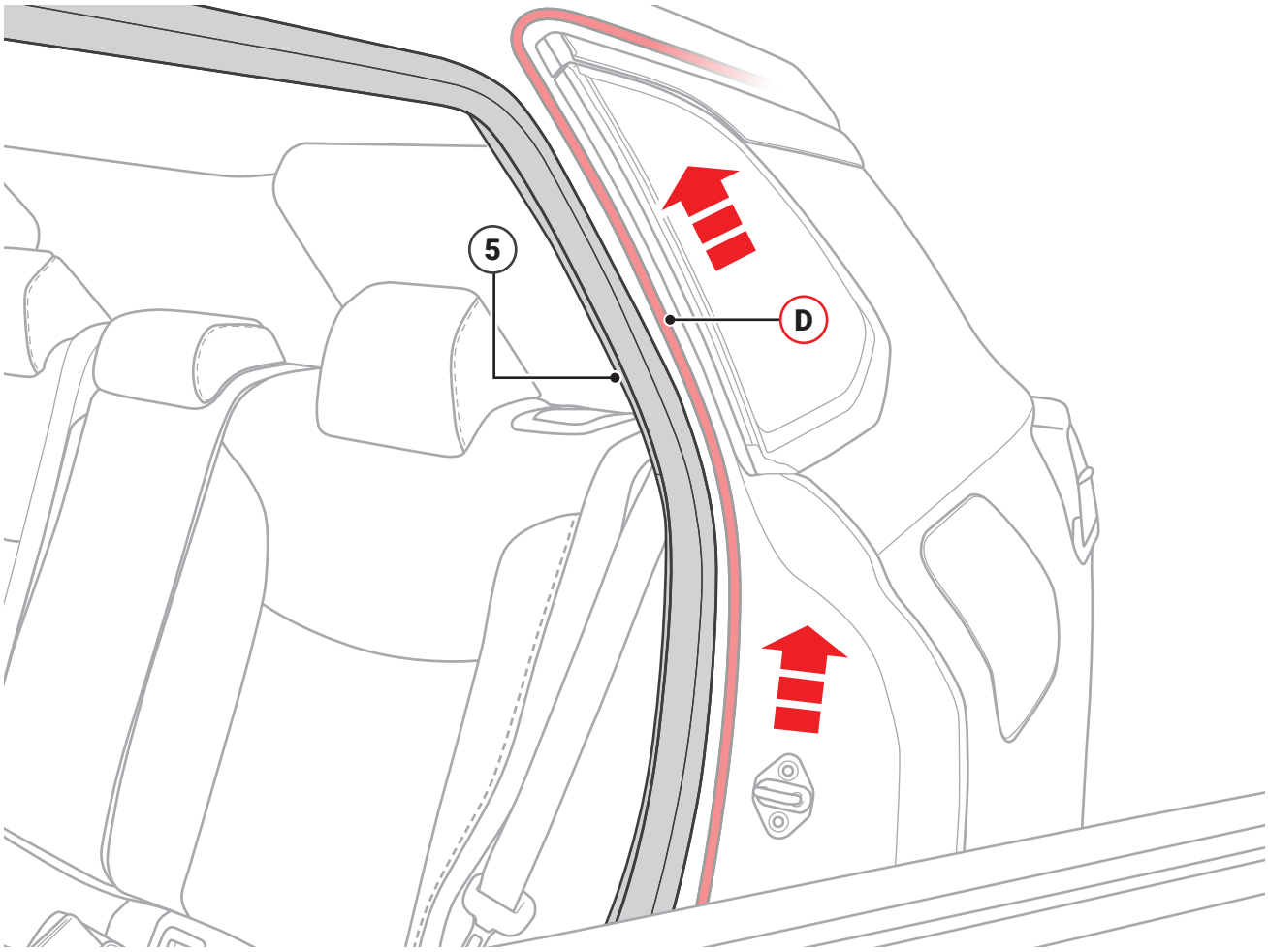
Prepare the cable path for **(D)** + **(E)** by removing the plastic door sill trims located at the edge of the interior floor. Hardwire Cable **(E)** can be left on the passenger floor area until the power is connected (Page 2).

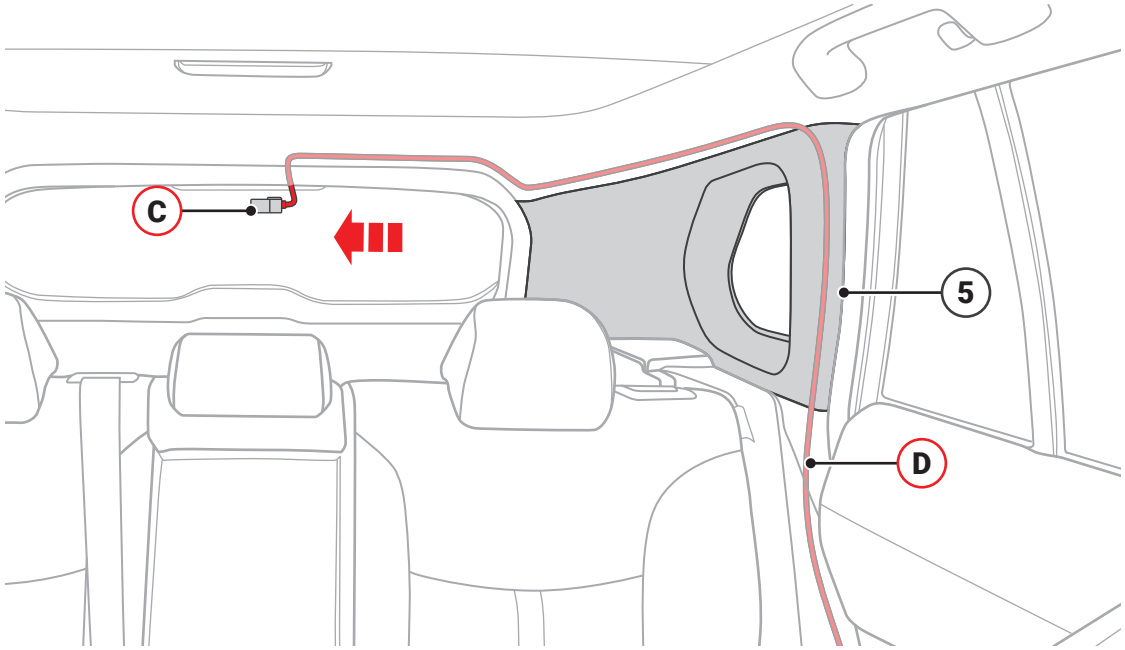
After these panels are removed, continue to run the rear camera cable **(D)** through the cable channel towards the rear of the vehicle by removing the rear scuff plate **(4)** following OEM cable management where possible.



Follow path under rear scuff plate **(4)** and then under luggage compartment trim **(5)** when removed up towards headliner following OEM cable management where possible.

Note: Remember to utilise cable ties every 200mm





**Example of routing only. Routing path will vary based on body type.*

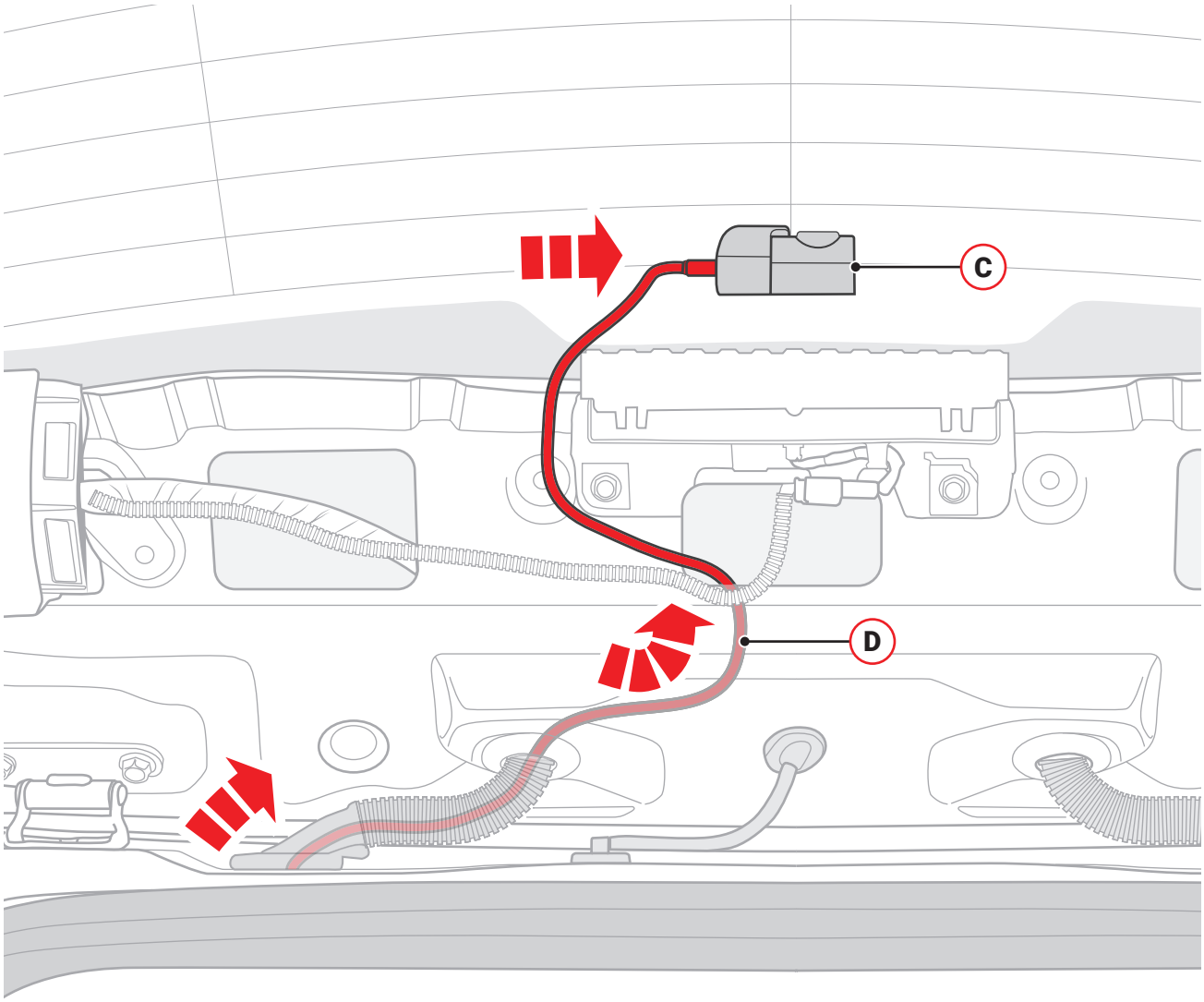
Sedan

Feed the rear camera cable (D) towards the centre of the rear windshield and tuck the cabling under the roof lining so it is not visible for the customer.

SUV / Hatch

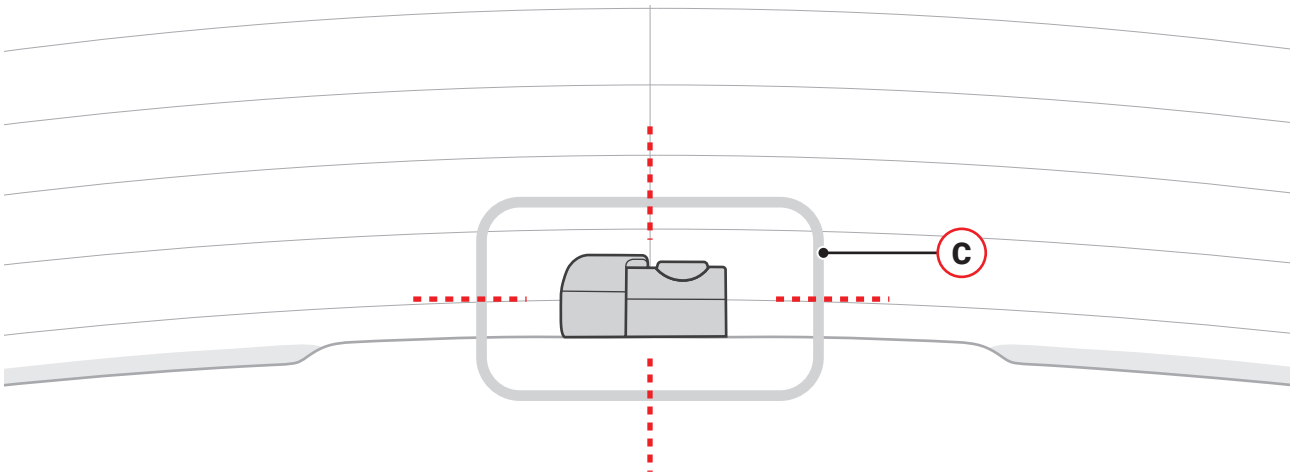
Feed the rear camera cable (D) towards the rubber grommet that connects the vehicle loom(s) to the tailgate / hatch boot area. Remove tailgate / hatch inner trim skin to gain access to final camera destination on rear windshield.

Note: When routing the cable through grommets consider using a lubricant or WD40 if access is tight.



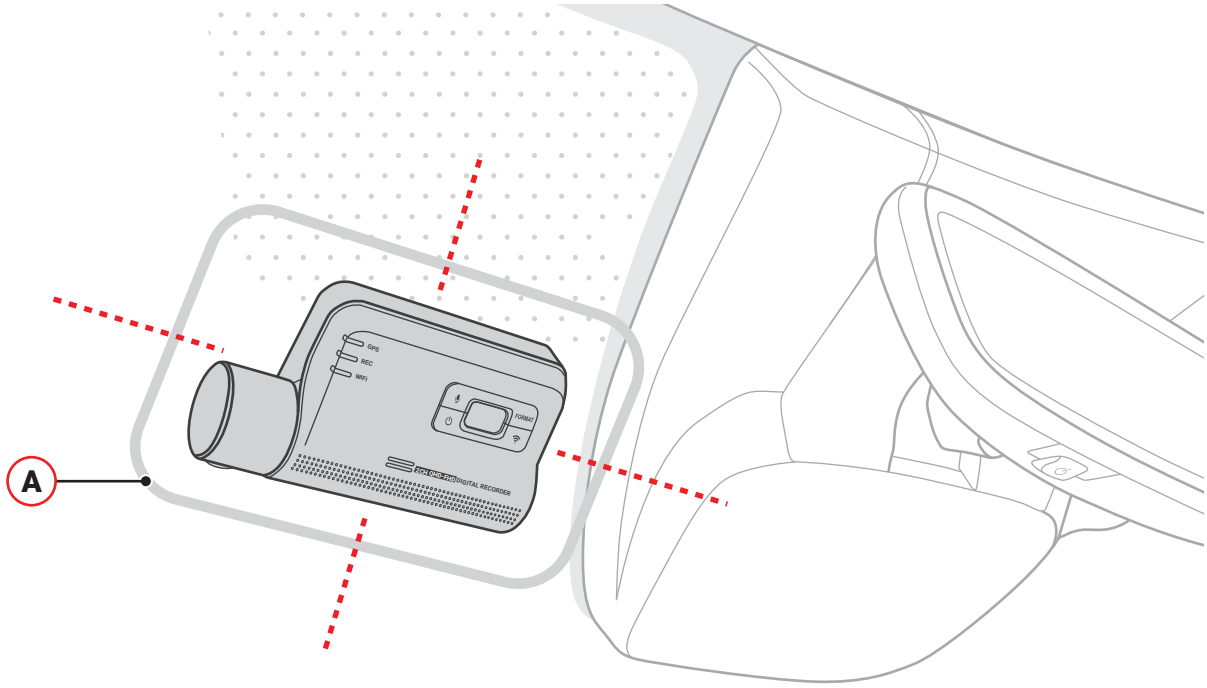
Temporarily Mounting the Cameras (A) and (C) :

For the Rear Camera **(C)** position temporarily with electrical tape or masking tape. Choose a mounting location on the top centre of the rear windshield where there is no defrost grid wire, and the camera lens is positioned to avoid as much defrost wire as possible.

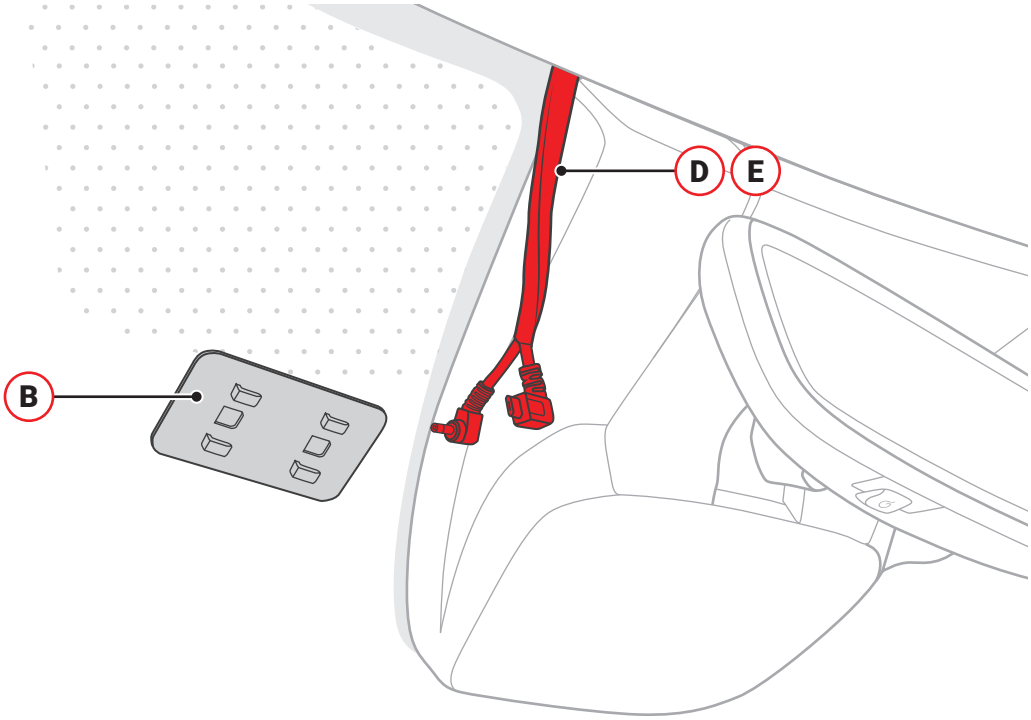


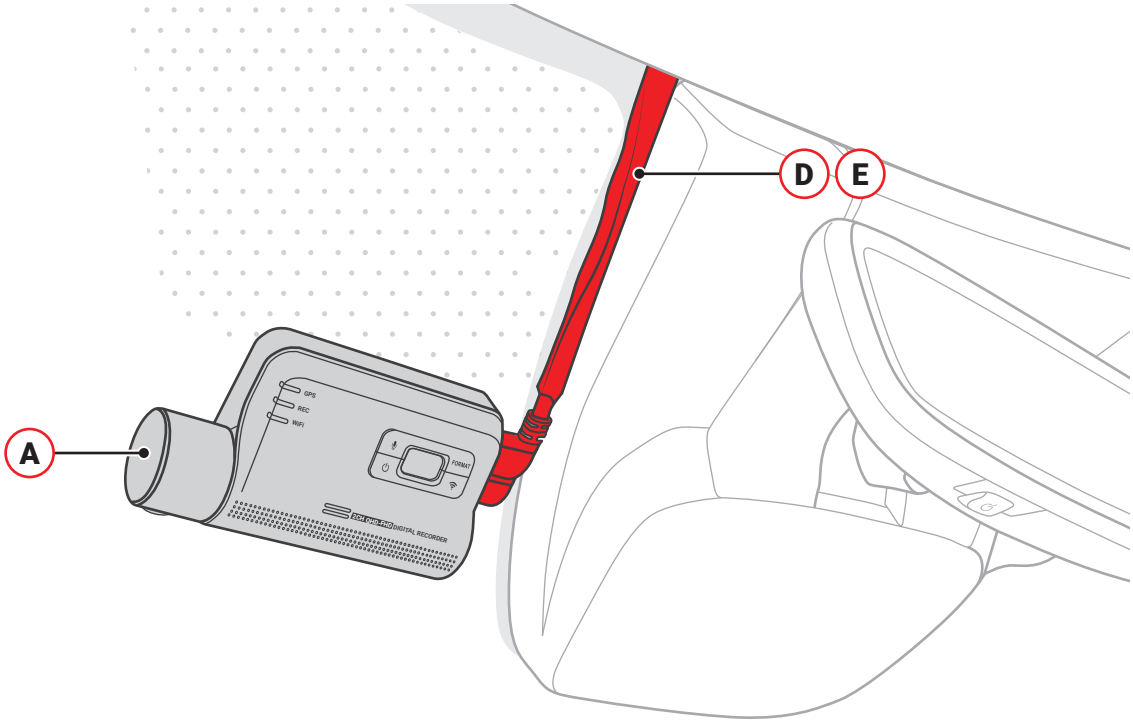
The Front Camera **(A)** should also be positioned temporarily with electrical tape or masking tape until the ideal viewing angle can be confirmed.

Note: The camera lens on both (A) + (C) can be adjusted on a vertical plane only.



Insert Micro SD card **(F)** into the Front Camera **(A)** and connect power and video cables **(D)** + **(E)**, Reconnect 12V negative terminal and re-fit all removed parts as per the vehicle workshop manual and Insert Micro SD card **(F)** into the Front Camera **(A)** and connect power and video cables **(D) + (E).**





Proceed to Camera Connection instructions to “Live-View” the cameras and ensure correct orientation and visibility. Once confirmed, affix Front Camera **(A)** to vehicle with Front camera mount **(B)** and secure rear camera **(C)** to the rear windshield using the supplied and attached mounting tape.

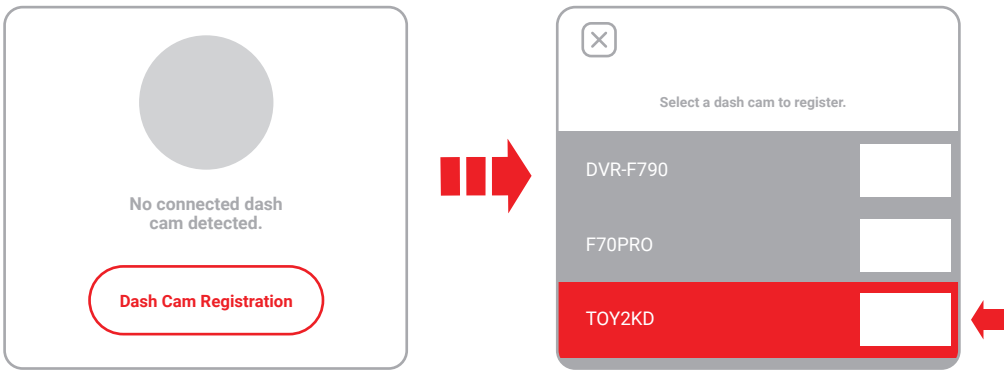
Smartphone Connection

1. On your smartphone, open the Google Play Store or Apple App Store and install **THINKWARE DASH CAM LINK.**

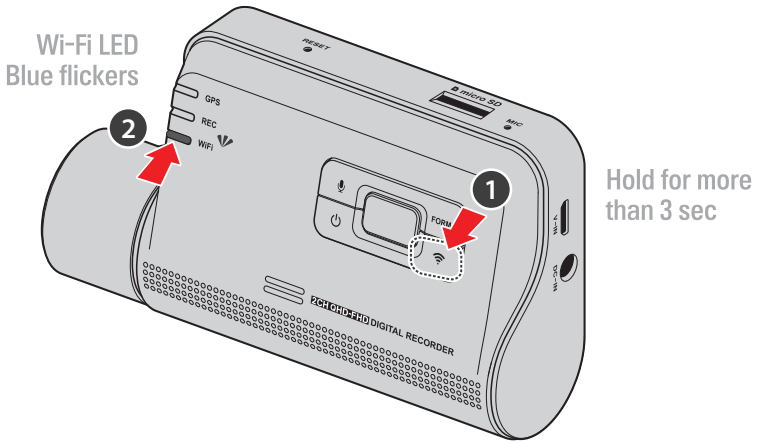
Apple Store (iOS)

Google Play Store (Android)

2. Run **THINKWARE DASH CAM LINK** whilst the vehicle is ON.
3. Tap '**Dash Cam Registration**' button in the middle of the screen.
4. Tap on the **TOY2KD** Series.



5. Hold the **Wi-Fi** button on the dash cam for 3 seconds, when the Wi-Fi LED starts blinking, tap the '**Bluetooth Connection**' button on your smartphone.



6. After a moment, the dash cam will be connected to your smartphone and the screen will show '**THINKWARE TOY2KD Dash Cam Connected**'.
7. To view footage, tap the 'film' tab at the bottom of the screen to access the video files stored on dash cam micro-SD card.