Part Number: PT949-34222 (Dashcam)

Legacy Part Numbers: PT949-34221 (Dashcam)
PT949-34220 (Dashcam)

MY 2022 - Present --- Tundra, Tundra HV, and Sequioa HV ..... Page 2-17

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MY 2024 - Present --- Tacoma & Tacoma HV ..... Page 33-47

MY 2024 - Present --- Land Cruiser HV ..... Page 48-62

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Part Number: PT949-34222 (Dashcam)

Legacy Part Numbers: PT949-34221 (Dashcam)
PT949-34220 (Dashcam)

Dashcam Kit Contents

Item #	Quantity Reqd.	Description
1	1	Dashcam Main Unit
2	1	SD Card Holder
3	1	SD Card (16 GB)
4	1	Window Mounting Plate
5	1	Foam Tape
6	2	Cable Ties
7	1	Quick Start Guide

Y-Harness Kit Contents

Item #	Quantity Reqd.	Description
1	1	Mirror Patch Y-Harness
2	2	Foam Tape
3	4	Cable Ties

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	1	PT949-34222 (Dashcam Unit)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
SEQ23-0014 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0G** also valid and can be used.
Installation Tools	**Notes**
Panel Tool	
Socket Wrench	With 10 mm Socket
Torque Wrench	With 10 mm Socket
Hooked Panel Tool	
Needle Nose Pliers	For Sun Visor Clip Removal
Special Chemicals	**Notes**
VDC Approved Cleaner	To Clean Windshield

General Applicability

MY22 + Tundra/Tundra HV
MY23 + Sequoia HV

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-34222)

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 2 pcs	Roof Console Clips if damage occurs during removal. P/N: 90467-09240
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-34220-AA	Camera Unit + SD
2	PT949-60220-AB	SD Card 16GB Industrial
3	PT949-60220-AC	Sd Card Holder Assembly
4	PT949-08210-AD	Window Plate with Tape

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.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance

Table Of Contents

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

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

This document covers such items as:-

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

Please see your Toyota dealer for a copy of this document.

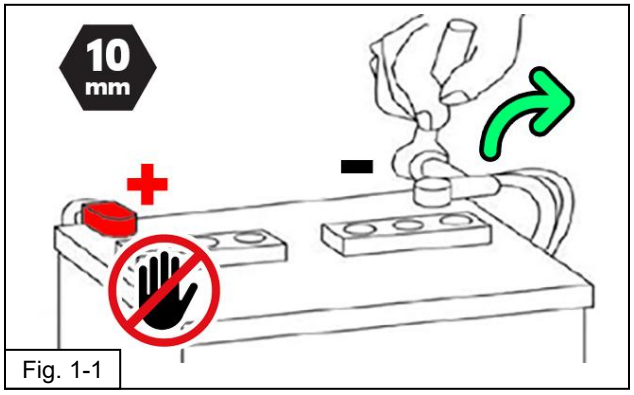
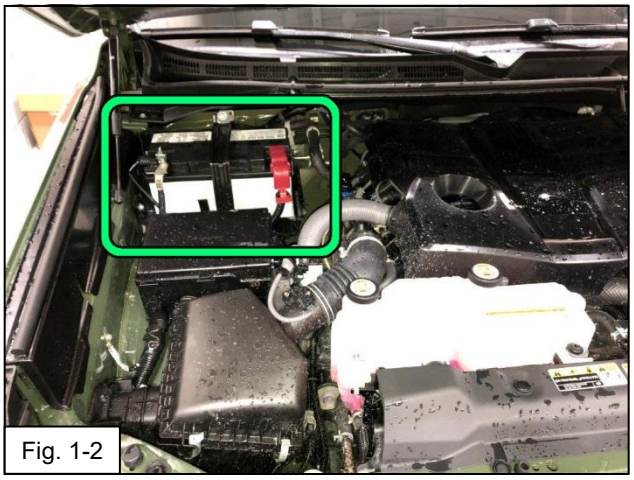
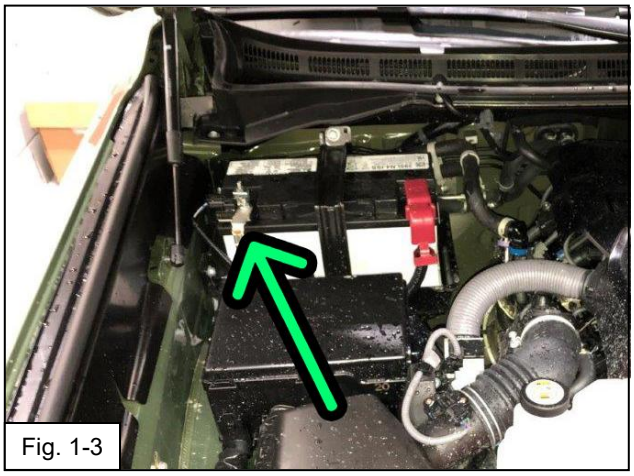


Fig. 1-1


Fig. 1-2


Fig. 1-3

1. Disconnect Battery

(a) Protect the fender / bumper before starting.

(b) The engine components and coolant may be hot.

(c) Remove the vehicle's 12V battery negative terminal (Fig. 1-1).

(d) Do NOT touch or disconnect high voltage systems on a Hybrid Vehicle.

CAUTION: Do not touch the positive terminal with any tool during battery disconnection.

Gas Version Battery Disconnection:

(e) On the **Gas version** of the Tundra, the 12V Battery is located in the engine compartment in front of the passenger A-Pillar. (Fig. 1-2).

(f) Protect the Fender paintwork.

(g) Disconnect the Negative Cable by loosening the 10 mm nut shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-3)

(h) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

For the Hybrid version of the Tundra, see detailed instructions on the following page.

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Fig. 1-4

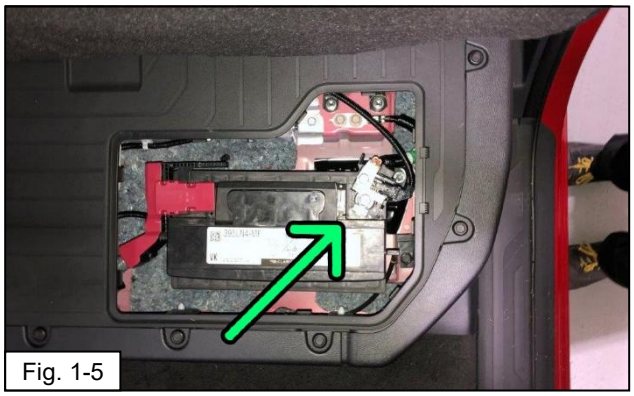

Fig. 1-5



Fig. 2-1


Fig. 3-1

Hybrid Version Battery Disconnection:

(i) Do NOT touch or disconnect high voltage systems on a Hybrid Vehicle. Only disconnect the 12V Battery.

(j) The 12V Battery on the Hybrid vehicle is located under the rear seat on the driver's side. (Fig. 1-4)

(k) Lift the rear seat base to the upright position. (Fig. 1-4)

(l) Remove the smaller battery access panel from under the seat. (Fig 1-4, 1-5)

(m) Disconnect the Negative Cable by loosening the 10 mm nut shown by the arrow (Fig. 1-5). It is not necessary to fully remove this nut.

(n) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

2. Kit Preparation

(a) Check the Dashcam Kits for missing contents or damage.

(b) Confirm Camera Angle Position – 2 visible recessed lines should be seen below the lens with the camera held in the as-installed orientation. (Fig. 2-1, Note: Camera is upside down in the image)

(c) If this is not correct, please see adjustment instructions at the end of this document (Step 17) **NOTE:** Do not try to force it as there is a hidden lock screw on each side.

3. Vehicle Protection

(a) Apply Vehicle Protection to front seats, dashboard, and center console. (Fig. 3-1)

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Fig. 4-1

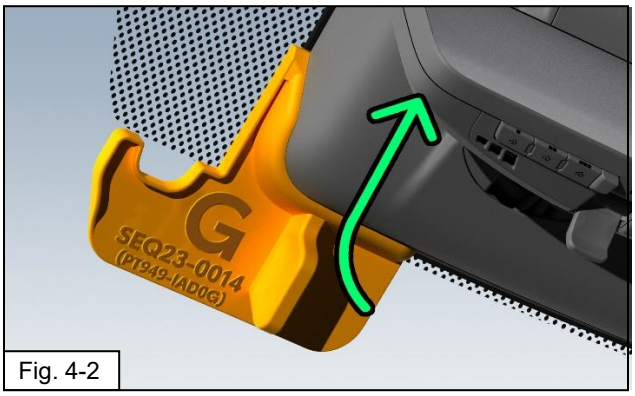


Fig. 4-2



Fig. 4-3

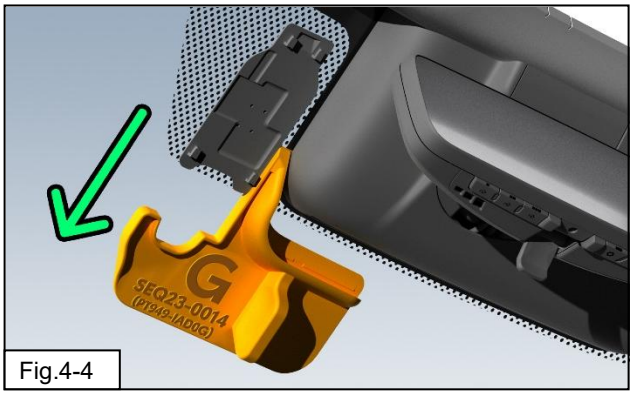


Fig.4-4

4. Install Windshield Base Plate

STOP: The front windshield must be at least 50°F (10°C).

(a) For PPO Installations, please use 3D hard template "**G**" with the part number **"SEQ23-0014"** *(Legacy: **PT949-IAD0G**)* (Fig. 4-1) and follow steps (c) through (f).

(b) For Dealer Installations or in the case that the 3D hard template is unavailable, please follow steps (g) through (i)

(c) On the driver's side of the vehicle, using window cleaner and a lint free cloth, clean the windshield area next to the TSS cover.

(d) Insert the 3D Template (**SEQ23-0014**) between the TSS cover and the windshield glass on the driver's side of the TSS cover, it should fit snugly against the TSS cover side walls, and the features of the template should allow it to stay in place hands free. If not, apply a small bit of tape for support to the lower edge. (Fig. 4-2)

(e) Remove adhesive and stick mounting plate on windshield while aligning to the lower and right-side edges of the mounting plate. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-3)

(f) Remove the 3D hard template by gently pulling towards the base of the windshield (wiper cowl area) to slide it out from under the TSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

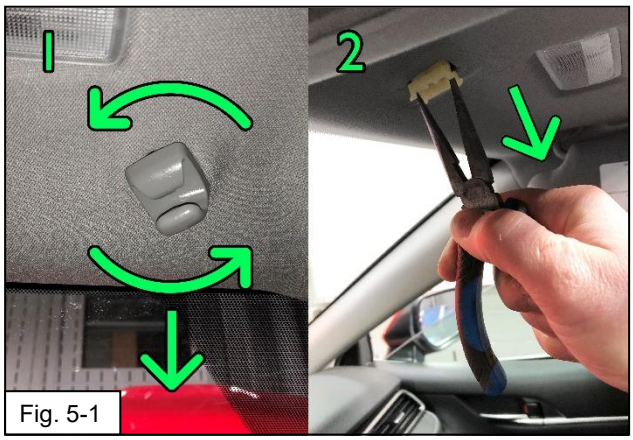


Fig. 5-1

For Dealer Installations / No 3D Hard Template Available:

(g) Using scissors, cut the paper template as indicated. For PPO Installations, please use 3D hard template provided.

(h) Referencing the TSS cover, align to the indicated line and affix the template to the windshield using tape. (Fig. 4-5)

(i) Remove adhesive and stick mounting plate on windshield paying attention to the reference lines on template. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-6)

(j) Once the base plate is fitted, remove template in the direction towards the lower edge of the windshield and clean any tape residue from the glass.

All Installation types continue from here onwards.

5. Remove Visor Mount Clips and Base

(a) Remove the Sun Visor Hooks on BOTH Driver and Passenger side of the Map Light Console, to allow for gentle pulling down of the headliner without damage.

Note: Both sides remove in the same direction, Passenger side is not mirrored.

(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1)

(2) After removing the hook component, release the two tabs and pull out the base, needle nose pliers recommended.

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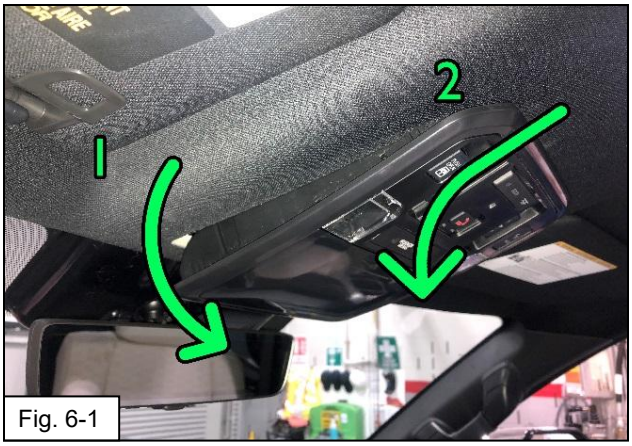


Fig. 6-1



Fig. 6-2

6. Remove Roof Map Light Console

(a) Remove the roof console by pulling down firmly on the forward edge (towards the front of the vehicle). Pull down firmly to release front 2 clips first then slide forwards and downwards to release the tabs at the rear (towards the back of the vehicle) (Fig. 6-1)

(1) A plastic panel removal tool may be used to pull down on the console.

(2) CAUTION: Do **not** pry against the headliner or it will leave visible damage.

(3) Note clips appearance in the image to better understand the removal process. (Fig. 6-2)

(b) Once fully detached, disconnect the wire harness from the roof console and place the console in a safe place to avoid damage. (Fig. 6-2)

(c) Inspect the console clips and replace if damaged (P/N: 90467-09240, 2 PCS)


Fig.7-1

7. Remove the TSS Cover

(a) Start by rotating the mirror approximately 45 degrees to improve access to the sides of the TSS cover while retaining access directly above the mirror. (Fig. 7-1)

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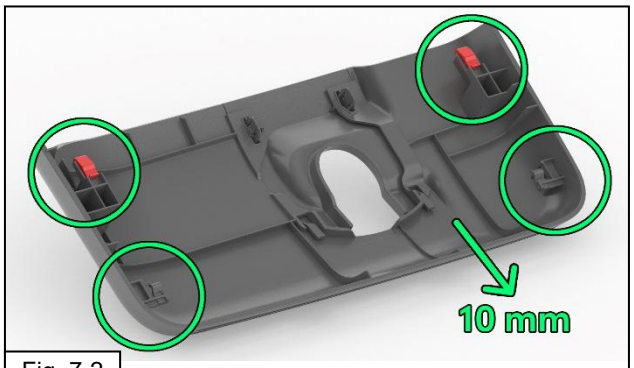


Fig. 7-2

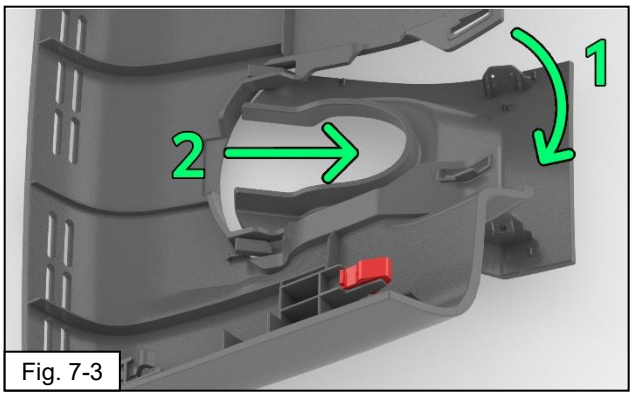
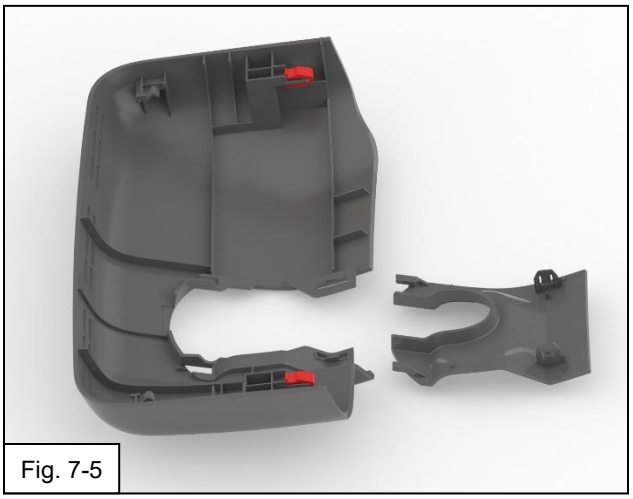


Fig. 7-3


Fig. 7-4


Fig. 7-5

(b) Holding the TSS Cover firmly with both hands, move it downwards towards the windshield wiper cowl area by approximately 10 mm, without fully removing it. This is to get better access to remove the cover around the mirror (Fig. 7-2)

(c) While supporting the main cover, pull down on the smaller inset cover around the mirror mount, using either your hooked panel removal tool or your fingertips, to detach the smaller cover from the main TSS cover. Take care not to scratch the headliner in the process.

(1) Pull down on the upper rearward edge of the cover plate (closest to the headliner) to disengage the clips. (Fig. 7-3), (Fig. 7-4)

(2) Alternatively you can gently pull down on the headliner, reach through the Map Light Console opening and push down on the upper rearward edge of the cover plate

(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks.

(4) Hold the TSS main cover while removing the smaller mirror mount cover.

(d) Remove the TSS main cover by sliding the cover down (Fig. 7-5, shown from the back side for clarity) from the TSS cover base in the direction of the bottom of the windshield / towards the wiper cowl area. Both covers should now be fully removed. (Fig. 7-5)

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Fig. 8-1


Fig. 8-2

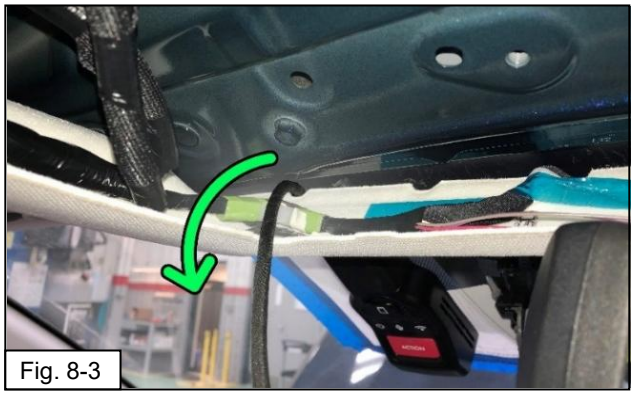

Fig. 8-3


Fig. 8-4

8. Route Dashcam Harness through the Headliner

(a) From the driver's side of the windshield, locate the notch in the front edge of the headliner if available (Fig. 8-1)

(b) Route the Dash Cam pigtail through the notch or similar area, and into the headliner. Take care not to crease the headliner in the process. (Fig. 8-2)

(c) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 8-3)

(d) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 8-4)

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Fig. 8-5

(e) Locate the existing pre-wire harness in the drivers side of the map light / overhead console opening. (Fig. 8-5)


Fig. 8-6

(f) Connect the harness into this prewired power connector, cover with the provided foam tape, and secure any excess length with a zip tie against the existing power supply harnes. (Fig. 8-6)


Fig. 9-1

9. Reinstall the TSS Cover

(a) Reinstall the TSS cover by pushing up on the cover along the windshield in the direction towards the headliner to engage the mounting clips into the cover base. (Fig. 9-1)

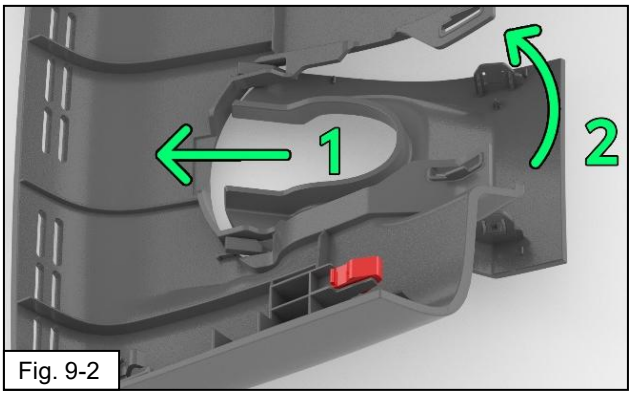


Fig. 9-2

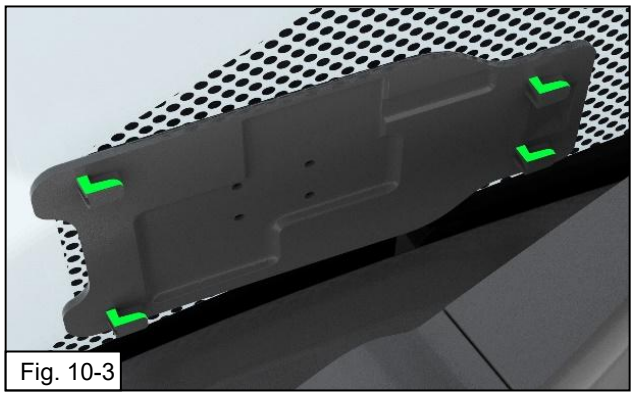
(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the TSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 9-2)

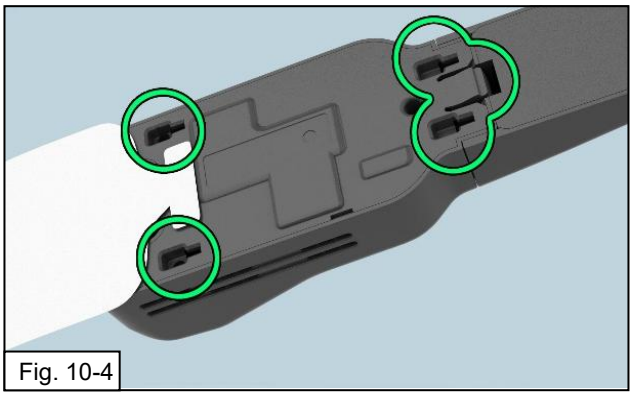
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Fig. 10-1


Fig. 10-2


Fig. 10-3


Fig. 10-4

10. Fitting the Dashcam to Base Plate

NOTE: The Hang Tag that is attached to the Dashcam is **only to be removed by the end user.** As the camera turns on with ignition, the hang tag is intended to block recording while the vehicle is being processed through areas which may be confidential / contain unreleased vehicles.

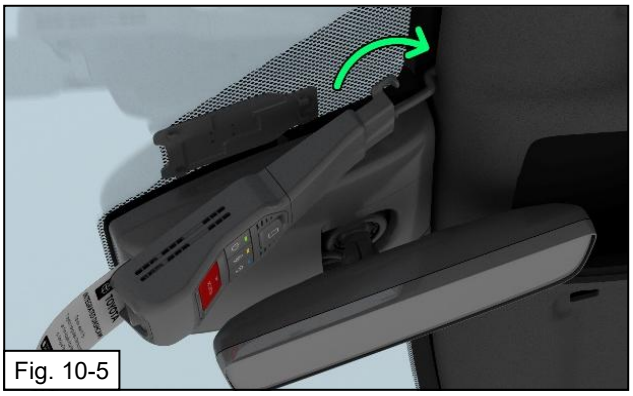
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 10-1)

(a) **IMPORTANT: DO remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 10-2)

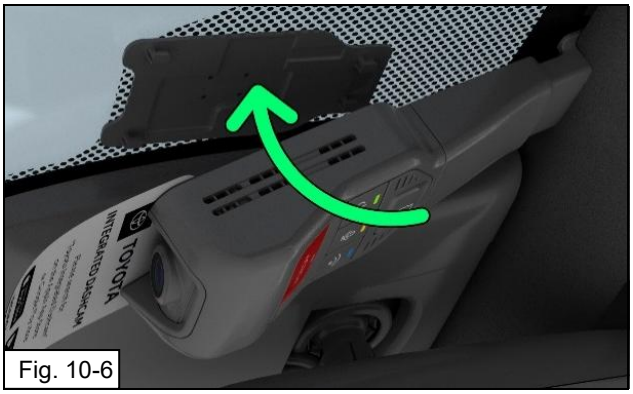
NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 10-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 10-4)

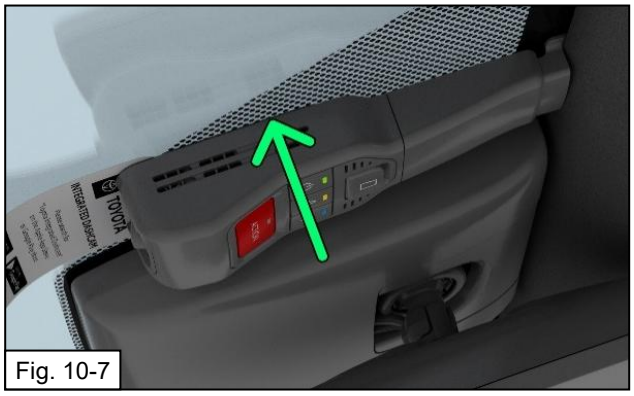
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Fig. 10-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 10-5)

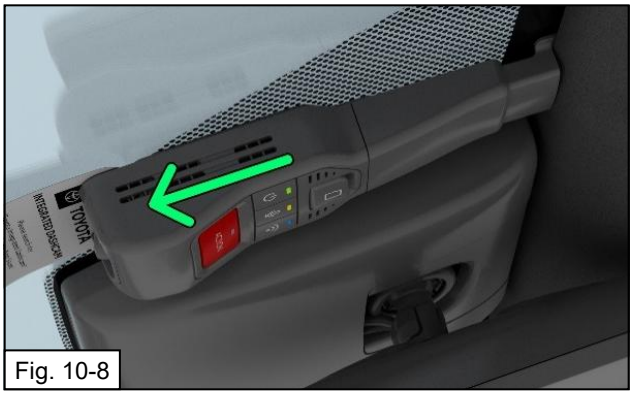

Fig. 10-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 10-6)


Fig. 10-7

(e) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 10-7)

⚠ `Slide the Dashcam down towards the to the T-hooks and engage the clip that secures it. Adjust the telescopic wire harness cover as required to sit correctly, and confirm the hooks are tucked inside the leading edge of the headliner. (Fig. 10-8)


Fig. 10-8

Note: A gap between the telescopic wire harness cover and the headliner is acceptable if wire harness is not visible from outside of the vehicle

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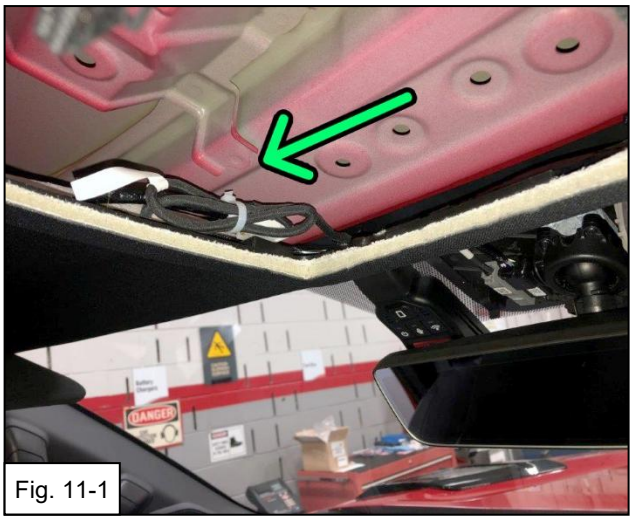
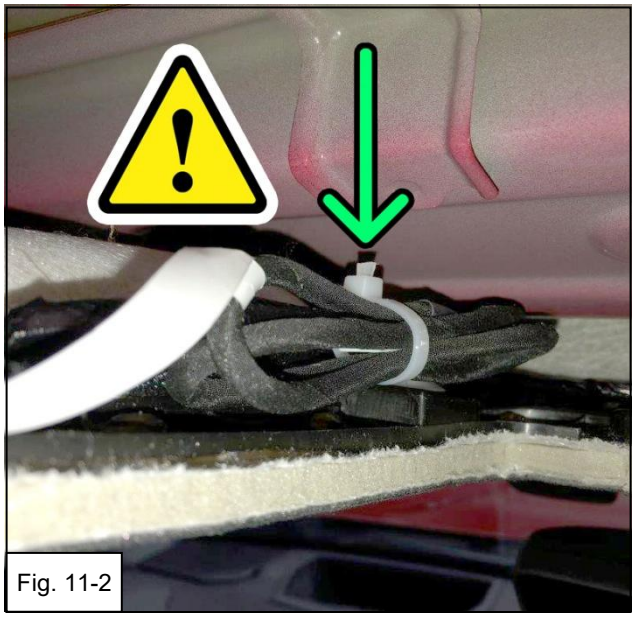
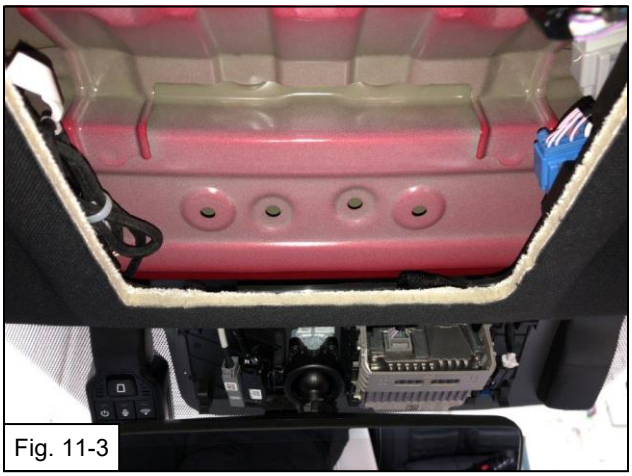


Fig. 11-1


Fig. 11-2


Fig. 11-3

11. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the connectors have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 11-1)

(b) Secure the Dashcam Pigtail harnesses against the existing harnesses on the driver's side of the map light / sunglasses pocket opening. Loop and bundle them as required. Arrange this in a way that does not obstruct the console being reinstalled. Tighten the zip tie and snip off the excess, and then **orient the zip tie to have the block in the upright position to prevent noises from contact with the overhead console.** (Fig. 11-2)

(c) Ensure that the connection for the console is still free to be connected and that the bundled harnesses are not obstructing the console map light connector. (Fig. 11-3)

(d) **Note: Take care not to cause bulging in the headliner. Some adjustments to the bundle may be required to avoid bulging the headliner.**

(e) **Note: Do not block access to the clip holes in the body structure or the roof console may not fit properly.**

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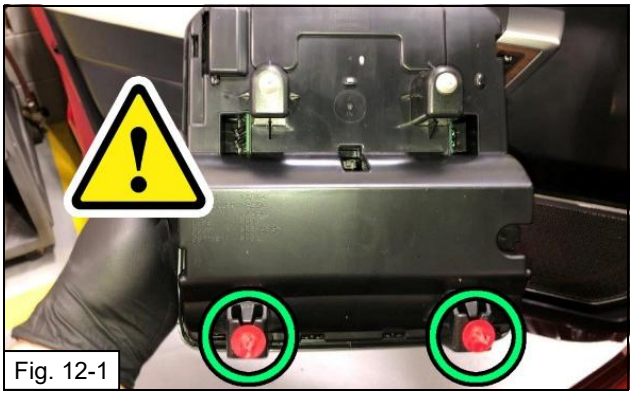

Fig. 12-1



Fig. 12-2

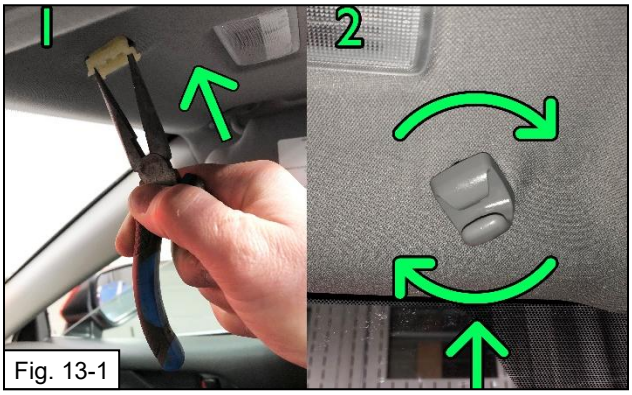


Fig. 13-1

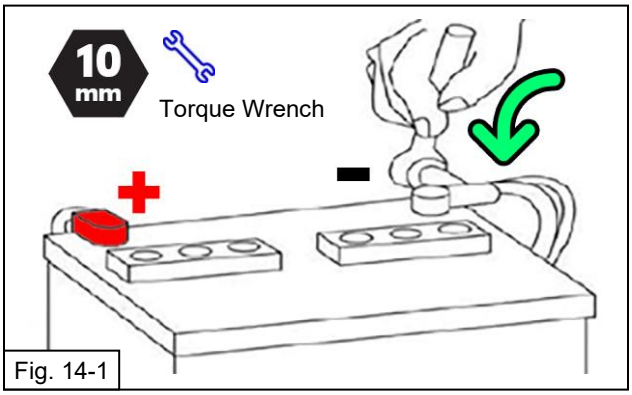


Fig. 14-1

12. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof control after battery. (Fig. 12-1)

(b) Check all console clips are in good condition and are present on the console. If any are still installed in the roof of the vehicle and have separated from the console, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 12-1)

(c) Reinstall the console by carefully by first inserting the tabs towards the rear, then rotating up to allow the front clips to engage. Carefully push in to place to lock. Check all corners for gaps. If struggling, reposition wire harnesses and try again. (Fig. 12-2)

(d) Note: Be careful aligning the clips to holes to avoid damage.

13. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 13-1)

(b) Insert the visor clips starting with the opening for the visor in the anti-clockwise position similar to how they were removed, then rotate clockwise to lock back into place. (Fig. 13-1)

(c) Note: The direction is the same for both sides. It is not mirrored.

14. Reconnect Vehicle Battery

(a) Reconnect the Negative Battery Cable and replace cover trim if necessary.

(b) Torque to 5.4 N•m (48 in•lbf)

(c) **CAUTION:** Do not touch the positive terminal with any tool.

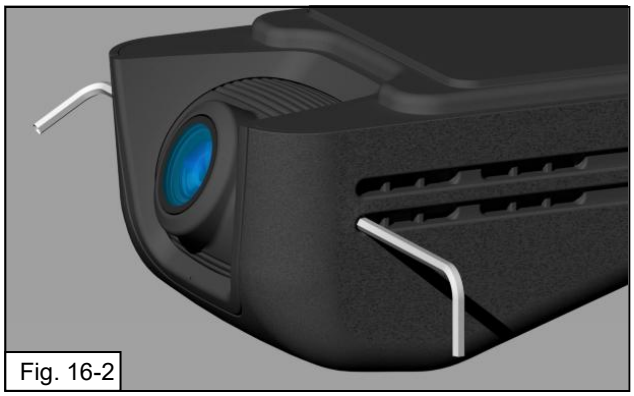
15. Owner's Manual

Place the Owner's Manual ("**Quick Start Guide**") in the glove box with the other vehicle owner's manuals.

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Fig. 16-1


Fig. 16-2

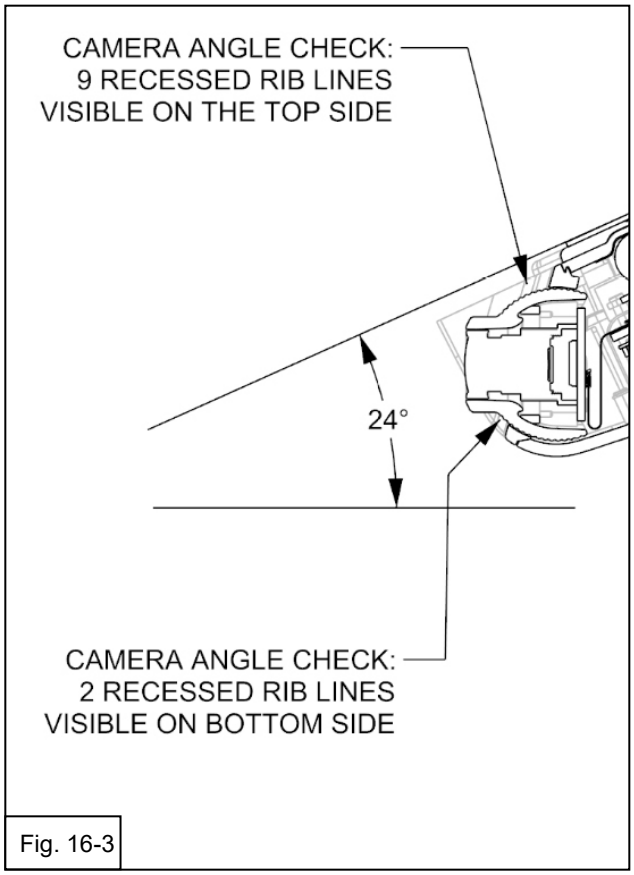


Fig. 16-3

16. Camera Angle Adjustment IF REQUIRED

In case the camera angle adjustment does not match what is intended for this vehicle (2 visible recessed lines under the lens) then this angle can be adjusted as follows. (Fig. 16-1)

DO NOT try to force the lens to move the camera – it is locked in place and damage may occur.

(a) Using a 1.5 mm size Allen Key tool, insert the tool in the lowest and forward most holes on **both sides**, where you will see small lock screw heads. Turn the screws counterclockwise approximately 2-3 turns to release the pressure on the locks. **Do not fully remove these screws**. (Fig. 16-2)

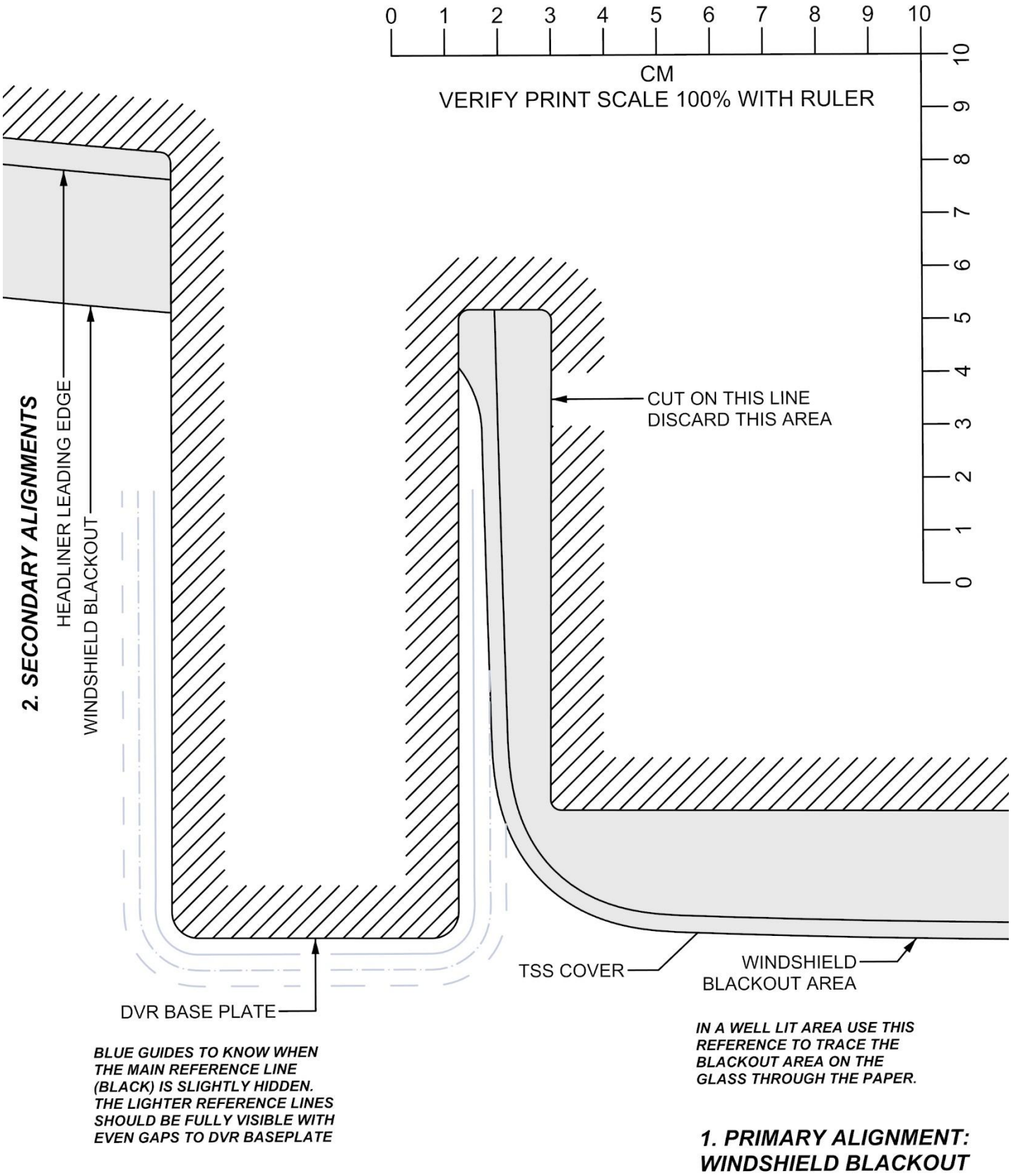
(b) With the locks on both sides now loose, you can raise or lower the camera view angle. For this vehicle we are looking to see two recessed rib lines below the camera lens to indicate the correct view angle. (Fig. 16-3)

(c) Once the angle is corrected, retighten the locking screws on each side, then reconfirm the two recessed rib lines to ensure the camera has not moved while tightening the locks. (Fig. 16-3)

(d) **Optional:** Use the Live View feature of the Toyota Integrated Dashcam phone application to confirm the view angle if compensating for other accessories / obstructions.

Note: When connecting for the first time as an installer, choose **"Remind Me Next Time"** when you are prompted to change the **WI-FI password.**

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TOYOTA INTEGRATED DASHCAM
2022+ TUNDRA LHS TEMPLATE

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

Check:	Look For:
Accessory Function Checks	
☐ Verify parts	Removed items have been discarded & replaced items are in place
☐ Vehicle Startup	Confirm Dashcam does not emit a continuous beep on vehicle startup. If it does, confirm SD card is installed
☐ Power LEDs light up	
☐ **Remove Blue Film on Dashcam Lens**	Blue Lens Protector Film should be removed and discarded.
Vehicle Function Checks	
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal	Confirm standard lighting functions work properly.
☐ Roof Console functions – map lights, sunroof / panoramic roof controls if equipped.	Confirm roof console functions work properly.
☐ EC Mirror – Confirm power and dimming.	Confirm EC Mirror power status LED visible, cover the transparent lens on the reverse side with your hand, the mirror glass should fade darker after a few seconds.
☐ Mirror – View Angle	Confirm mirror is adjusted correctly for visibility for the average driver.
☐ TPMS Gauge Indicator	Prior to TPMS activation and PDS, the TPMS light may blink when IG is on. After activation and PDS, the TPMS light should turn off when IG is on.
Vehicle Appearance Check	
☐ After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMNA Accessory Quality Shipping Standard.)
☐ All Templates and Tools removed from the vehicle.	Confirm Windshield Template and all tools have been removed from the vehicle.

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Part Number: PT949-34222 (Dashcam)

Legacy Part Numbers: PT949-34221 (Dashcam)
PT949-34220 (Dashcam)

Dashcam Kit Contents

Item #	Quantity Reqd.	Description
1	1	Dashcam Main Unit
2	1	SD Card Holder
3	1	SD Card (16 GB)
4	1	Window Mounting Plate
5	1	Foam Tape
6	2	Cable Ties
7	1	Quick Start Guide

Y-Harness Kit Contents

Item #	Quantity Reqd.	Description
1	1	Mirror Patch Y-Harness
2	2	Foam Tape
3	4	Cable Ties

Additional Items Required For Installation

Item #	Quantity Reqd.	Description
1	1	PT949-34222 (Dashcam Unit)
2		

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
Gra24-0003 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0G** also valid and can be used.
Installation Tools	**Notes**
Panel Tool	
Socket Wrench	With 10 mm Socket
Torque Wrench	With 10 mm Socket
Hooked Panel Tool	
Needle Nose Pliers	For Sun Visor Clip Removal
Special Chemicals	**Notes**
VDC Approved Cleaner	To Clean Windshield

General Applicability

MY24 + Grand Highlander/Grand Highlander HV

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-34222)

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 4 pcs	Roof Console **YELLOW** Clips if damage occurs during removal. P/N: 90467-09240
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-34220-AA	Camera Unit + SD
2	PT949-60220-AB	SD Card 16GB Industrial
3	PT949-60220-AC	Sd Card Holder Assembly
4	PT949-08210-AD	Window Plate with Tape

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.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance

Table Of Contents

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TOYOTA GRAND HIGHLANDER 2024 - DASHCAM (Digital Video Recorder)

Procedure

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

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

This document covers such items as:-

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

Please see your Toyota dealer for a copy of this document.

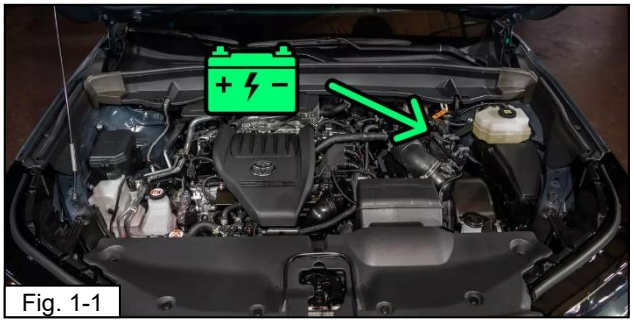


Fig. 1-1



Fig. 1-2



Fig. 1-3

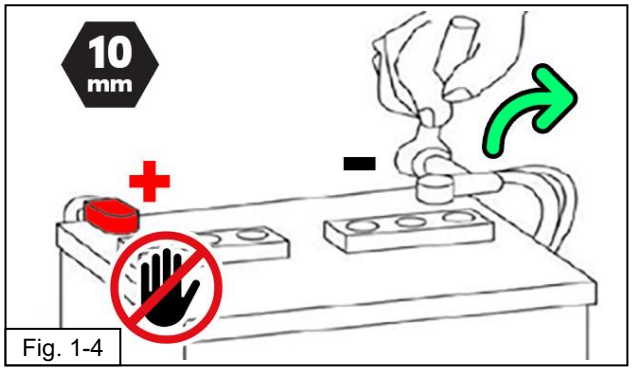


Fig. 1-4

1. Disconnect Battery

(a) Protect the fender / bumper before starting.

(b) The engine components and coolant may be hot.

CAUTION: Do not touch the positive terminal with any tool during battery disconnection.

NOTE: Reinstall DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

Battery Disconnection:

(c) The 12V Battery in the Gas powered Grand Highlander is located in the engine bay (Fig. 1-1)

(d) The 12V Battery in the Hybrid powered Grand Highlander is located in the trunk compartment on the pasenger side. (Fig. 1-2).

(e) Protect the Fender / Bumper paintwork.

(f) If working on the Hybrid model, remove the cargo trim panel and remove the battery cover panel. (Fig 1-3).

(g) Disconnect the Negative Cable by loosening the 10 mm nut shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-4)

(h) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

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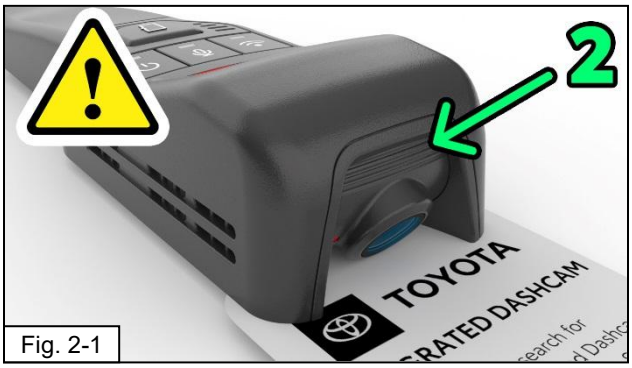


Fig. 2-1

2. Kit Preparation

(a) Check the Dashcam Kits for missing contents or damage.

(b) Confirm Camera Angle Position – 2 visible recessed lines should be seen below the lens with the camera held in the as-installed orientation. (Fig. 2-1, Note: Camera is upside down in the image)


Fig. 3-1


Fig. 3-2

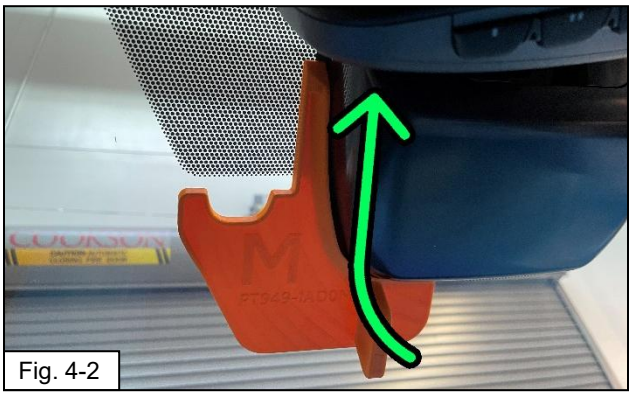
3. Vehicle Protection

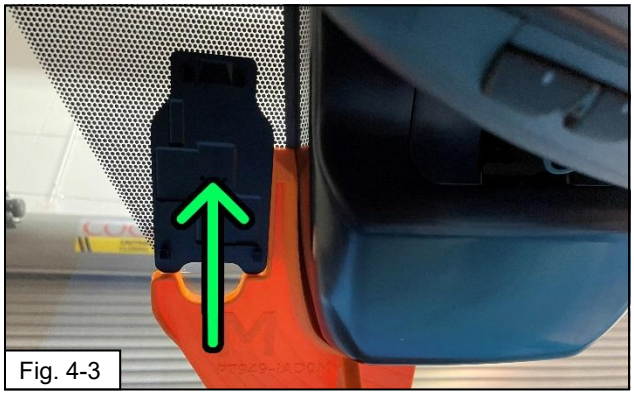
(a) Apply Vehicle Protection to driver and passenger's seat, steering wheel, dashboard, and center console. (Fig. 3-1, 3-2)

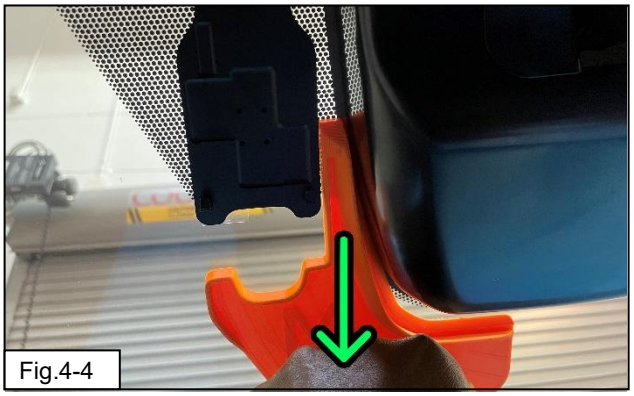
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Fig. 4-1


Fig. 4-2


Fig. 4-3


Fig.4-4

4. Install Windshield Base Plate

STOP: The front windshield must be at least 50°F (10°C).

(a) On the driver's side of the vehicle, using window cleaner and a lint free cloth, clean the windshield area next to the TSS cover.

(b) For PPO Installations, please use 3D hard template "**M**" with the part number **"Gra24-0003"** *(Legacy: **PT949-IAD0M**)* (Fig. 4-1) and follow steps (d) through (f).

(c) For Dealer Installations or in the case that the 3D hard template is unavailable**,** please follow steps (g) through (i)

(d) Insert the 3D Template (**Gra24-0003**) between the TSS cover and the windshield glass, it should fit snugly against the TSS cover side walls, and the features of the template should allow it to stay in place hands free. If not, apply a small bit of tape for support to the lower edge*. (Fig. 4-2)*

(e) Remove adhesive and stick mounting plate on windshield while aligning to the lower and right-side edges of the mounting plate. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-3)

(f) Remove the 3D hard template by gently pulling towards the base of the windshield (wiper cowl area) to slide it out from under the TSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

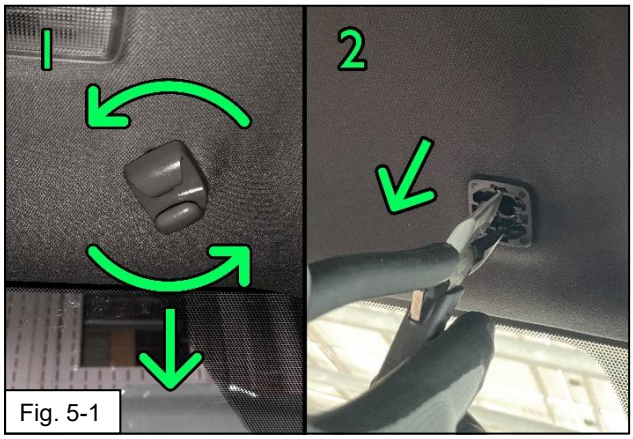


Fig. 5-1

For Dealer Installations / No 3D Hard Template Available:

(g) Using scissors, cut the paper template as indicated. For PPO Installations, please use 3D hard template provided.

(h) Referencing the TSS cover, align to the indicated line and affix the template to the windshield using tape. (Fig. 4-5)

(i) Remove adhesive and stick mounting plate on windshield paying attention to the reference lines on template. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-6)

(j) Once the base plate is fitted, remove template in the direction towards the lower edge of the windshield and clean any tape residue from the glass.

All Installation types continue from here onwards.

5. Remove Visor Mount Clips and Base

(a) Remove the Sun Visor Hooks on BOTH Driver and Passenger side of the Map Light Console, to allow for gentle pulling down of the headliner without damage.

Note: Both sides remove in the same direction, Passenger side is not mirrored.

(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1)

(2) After removing the hook component, release the two tabs and pull out the base, needle nose pliers recommended.

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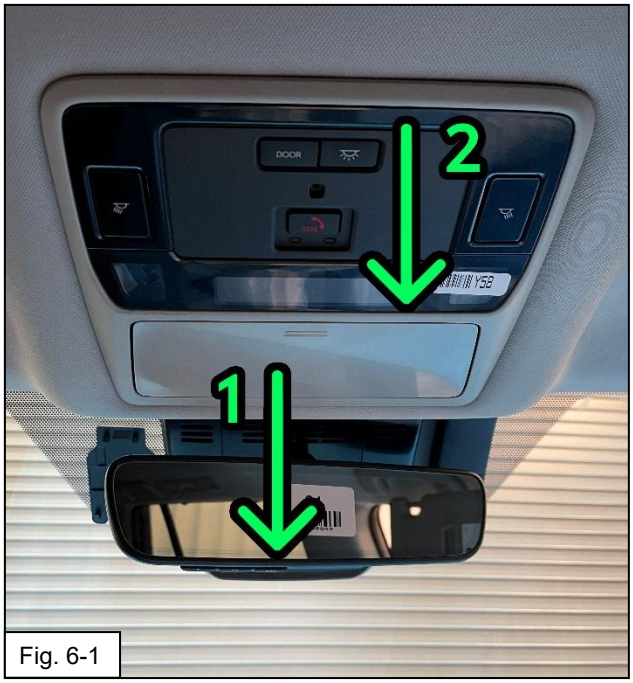
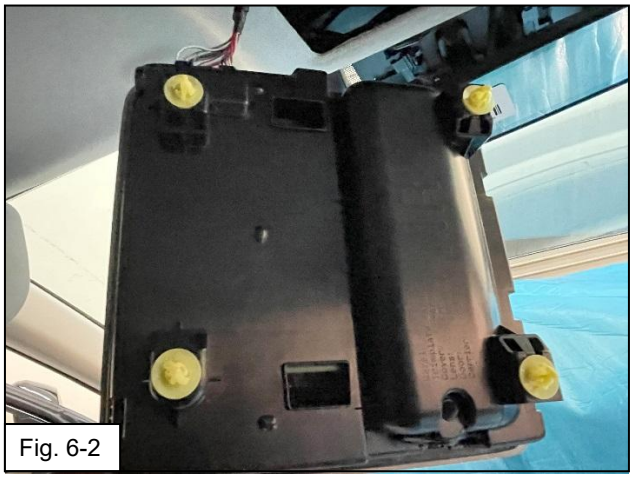
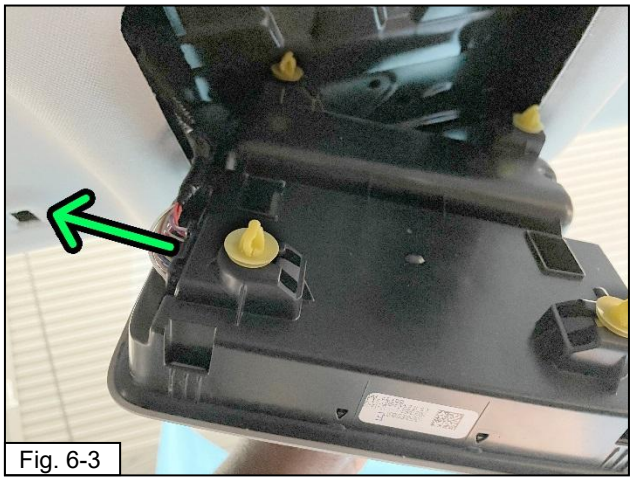


Fig. 6-1


Fig. 6-2


Fig. 6-3

6. Remove Roof Map Light Console

Remove the roof console by first moving the mirror down for clearance, then by pulling down firmly on the forward edge (towards the front of the vehicle). Pull down firmly to release front 2 clips first then again pull down on the clear plastic lens to release the 2 clips at the rear edge. Do NOT pull down on the rear edge first as this may cause visible headliner damage. (Fig. 6-1)

(1) A plastic panel removal tool may be used to pull down on the console.

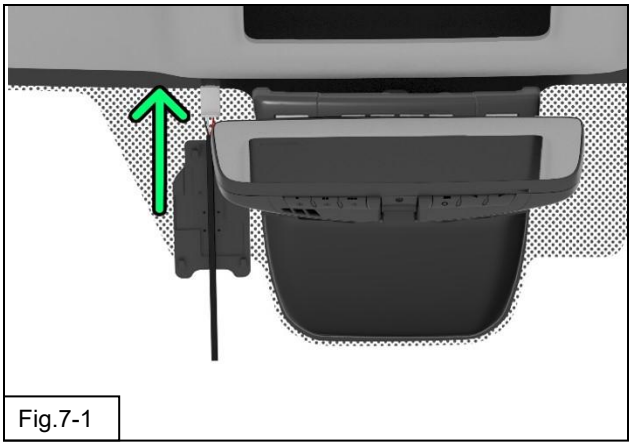
(2) CAUTION: Do **not** pry against the headliner or it will leave visible damage.

(3) Note clips appearance in the image to better understand the removal process. (Fig. 6-2)

(a) Once fully detached, disconnect the wire harness from the roof console and place the console in a safe place to avoid damage. (Fig. 6-3)

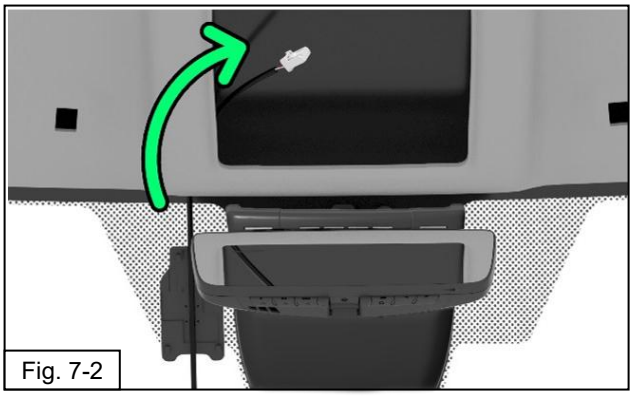
(b) Inspect the console clips and replace if damaged (Yellow: 90467-09245)

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Fig.7-1

7. Route Dashcam Harness through the Headliner

(a) From the Driver's side of the vehicle, feed the Dashcam's pigtail harness up into the headliner, directly above the Dashcam mounting plate fixed to the windshield. Take care not to crease the headliner in the process. (Fig. 7-1)


Fig. 7-2

(b) Route the Dashcam pigtail through the headliner to the map light console area. (Fig. 7-2)



Fig. 7-3

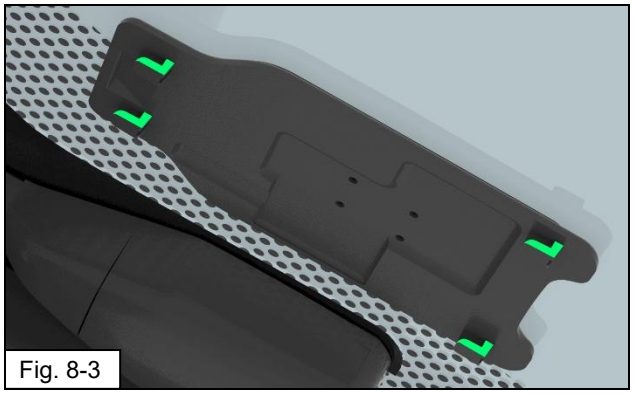
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 7-3)

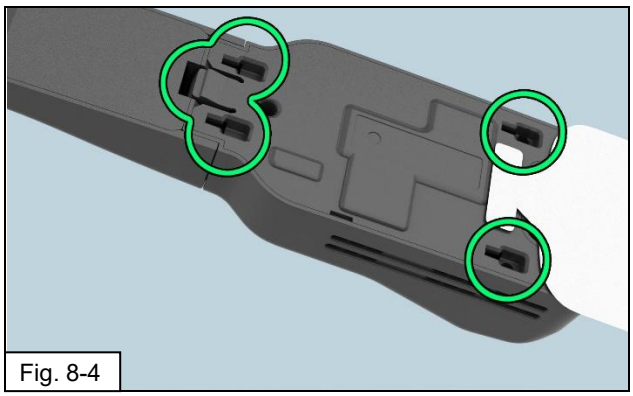
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Fig. 8-1


Fig. 8-2


Fig. 8-3


Fig. 8-4

8. Fitting the Dashcam to Base Plate

NOTE: The Hang Tag that is attached to the Dashcam is **only to be removed by the end user.** As the camera turns on with ignition, the hang tag is intended to block recording while the vehicle is being processed through areas which may be confidential / contain unreleased vehicles.

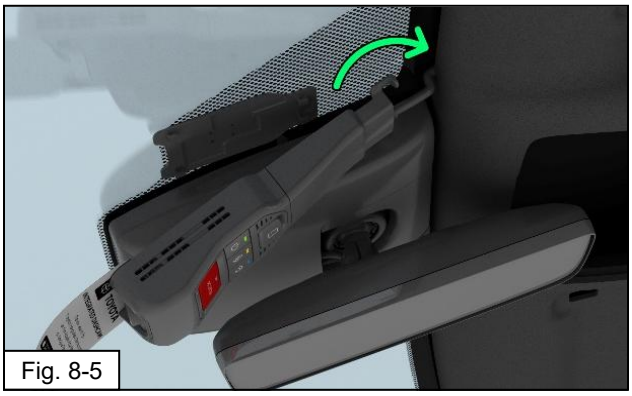
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 8-1)

(a) **IMPORTANT: Remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 8-2)

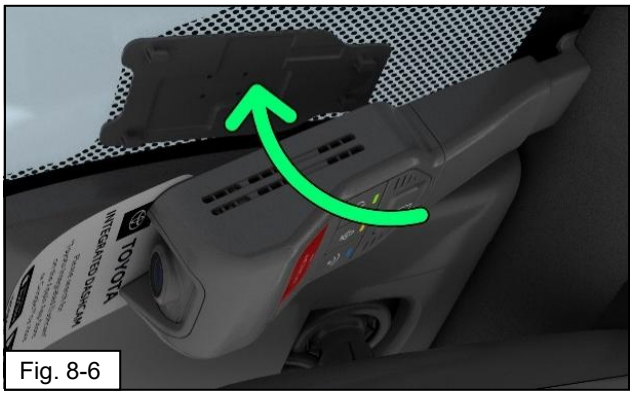
NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 8-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 8-4)

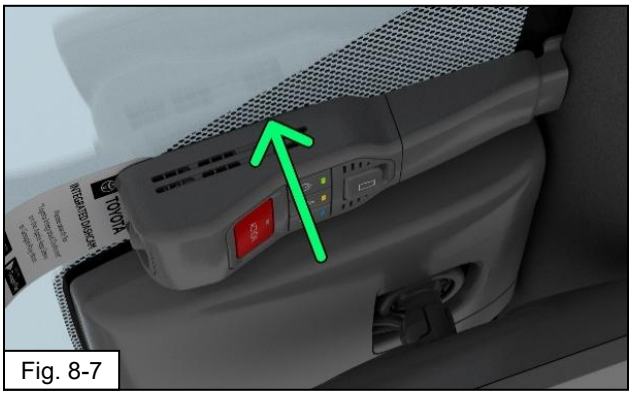
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Fig. 8-5

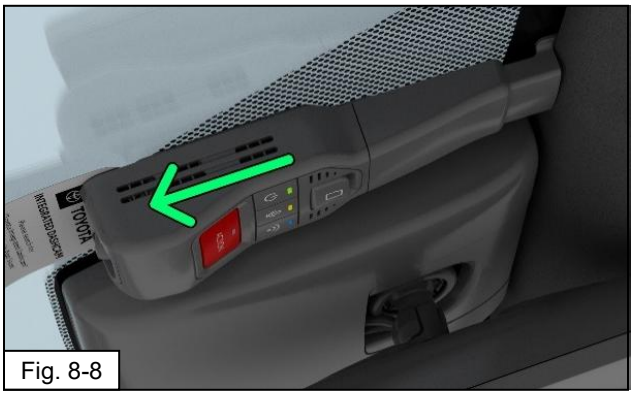
(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 8-5)


Fig. 8-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 8-6)

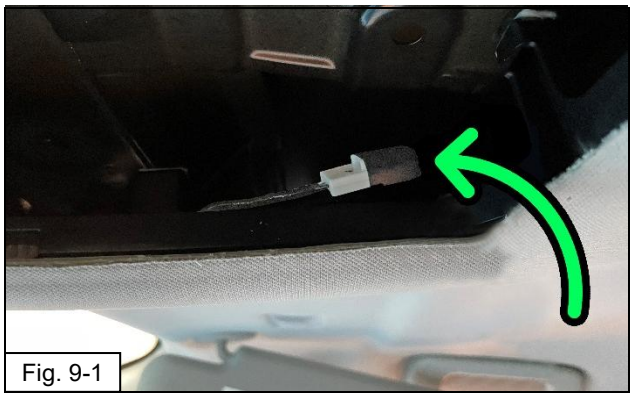

Fig. 8-7

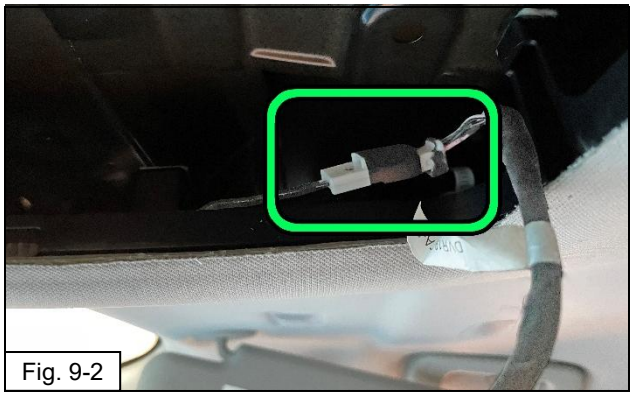
(e) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 8-7)


Fig. 8-8

(f) Slide the Dashcam down towards the to the T-hooks and engage the clip that secures it. Adjust the telescopic wire harness cover as required to sit correctly, and confirm the hooks are tucked inside the leading edge of the headliner. (Fig. 8-8)

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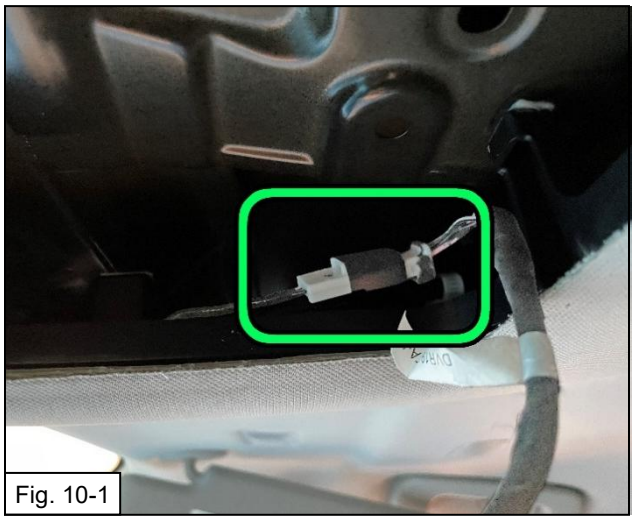

Fig. 9-1


Fig. 9-2

9. Connect the Power Harness

(a) Locate the Dashcam Pre-wire harness connector secured on the Passenger's side of the Map Light Console opening. It is the white 5 pin connector that will appear to be unused. (Fig. 9-1)

(b) Connect the Dashcam Pigtail harness to this pre-wire connector, ensuring there are no obstructions preventing bundling of the harness. (Fig.9-2)

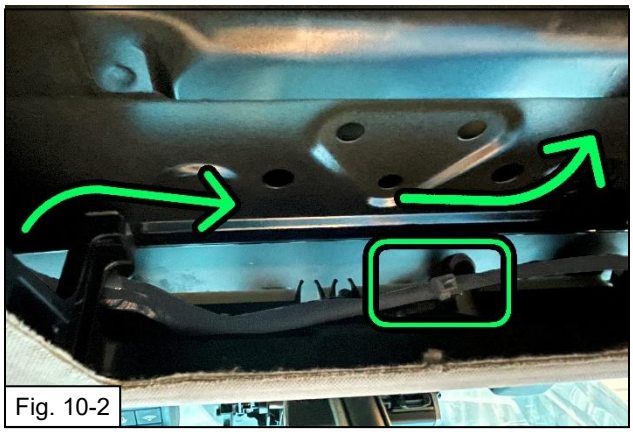

Fig. 10-1

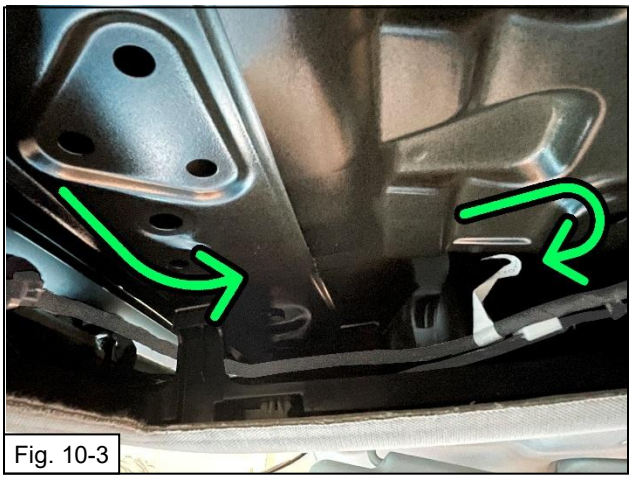
10. Route / Bundle Wire Harness

(a) Confirm that the Dashcam Pigtail Harness is securely fitted to the pre-wire connector. Ensure that the Pre-wire connector is still securely mounted in its original location on the headliner plastic frame. (Fig 10-1)

Note: As the connector is securely mounted, it is not necessary to use the included foam tape to cover the connector and these may be discarded.

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Fig. 10-2


Fig. 10-3

(b) Secure the Dashcam pigtail harnesses against the existing harness that leads to the Pre-Wire Connector on the passenger's side of the map light / sunglasses pocket opening. Loop and bundle them as required. Arrange this in a way that does not obstruct the console being reinstalled. Tighten the zip tie and snip off the excess, and then **orient the zip tie to have the block in the upright position to prevent noises from contact with the overhead console.** (Fig. 10-2)

(c) Ensure that the connection for the console is still free to be connected and that the bundled harnesses are not obstructing the console map light connector. (Fig. 10-3)

(d) **Note: Take care not to cause bulging in the headliner. Some adjustments to the bundle may be required to avoid bulging the headliner.**

(e) **Note: Do not block access to the clip holes in the body structure or the roof console may not fit properly.**

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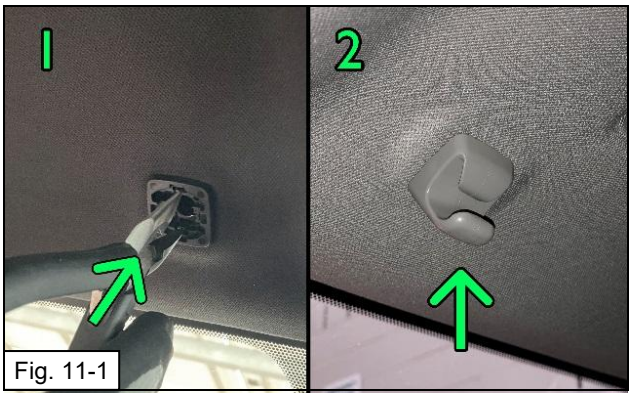


Fig. 11-1

11. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 11-1 L)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 11-1 R)

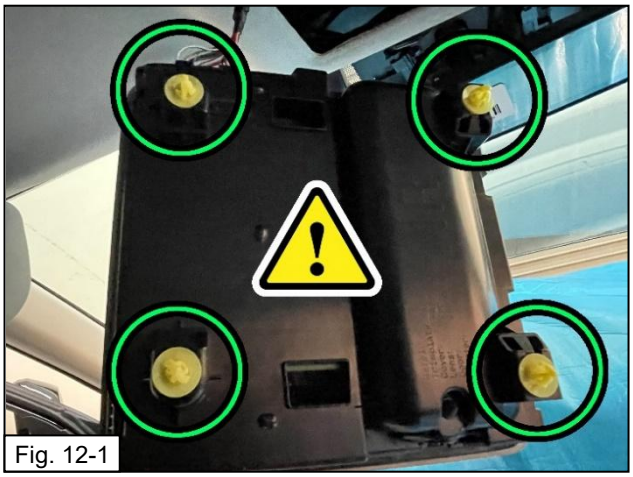

Fig. 12-1



Fig. 12-2

12. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, test map lights and sunroof control if equipped. (Fig. 12-1)

(b) Check all console clips are in good condition and are present on the console. If any are still installed in the roof of the vehicle and have separated from the console, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 12-1)

(c) Reinstall the console by carefully aligning the clips towards the front of the opening and observe the marks in headliner for alignment references. Carefully push in to place to lock, starting at the front and then the rear. Take care not to apply pressure to the lens covers or sunglasses holder door. Check all corners for gaps. If needed, reposition harnesses and try again. (Fig. 12-2)

(d) Note: Be careful aligning the clips to holes to avoid damage.

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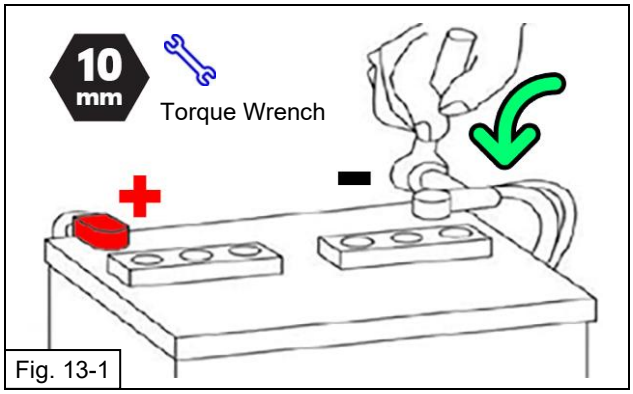


Fig. 13-1

13. Reconnect Vehicle Battery

(a) Reconnect the Negative Battery Cable and replace cover trim if necessary.

(b) Torque to 5.4 N•m (48 in•lbf)

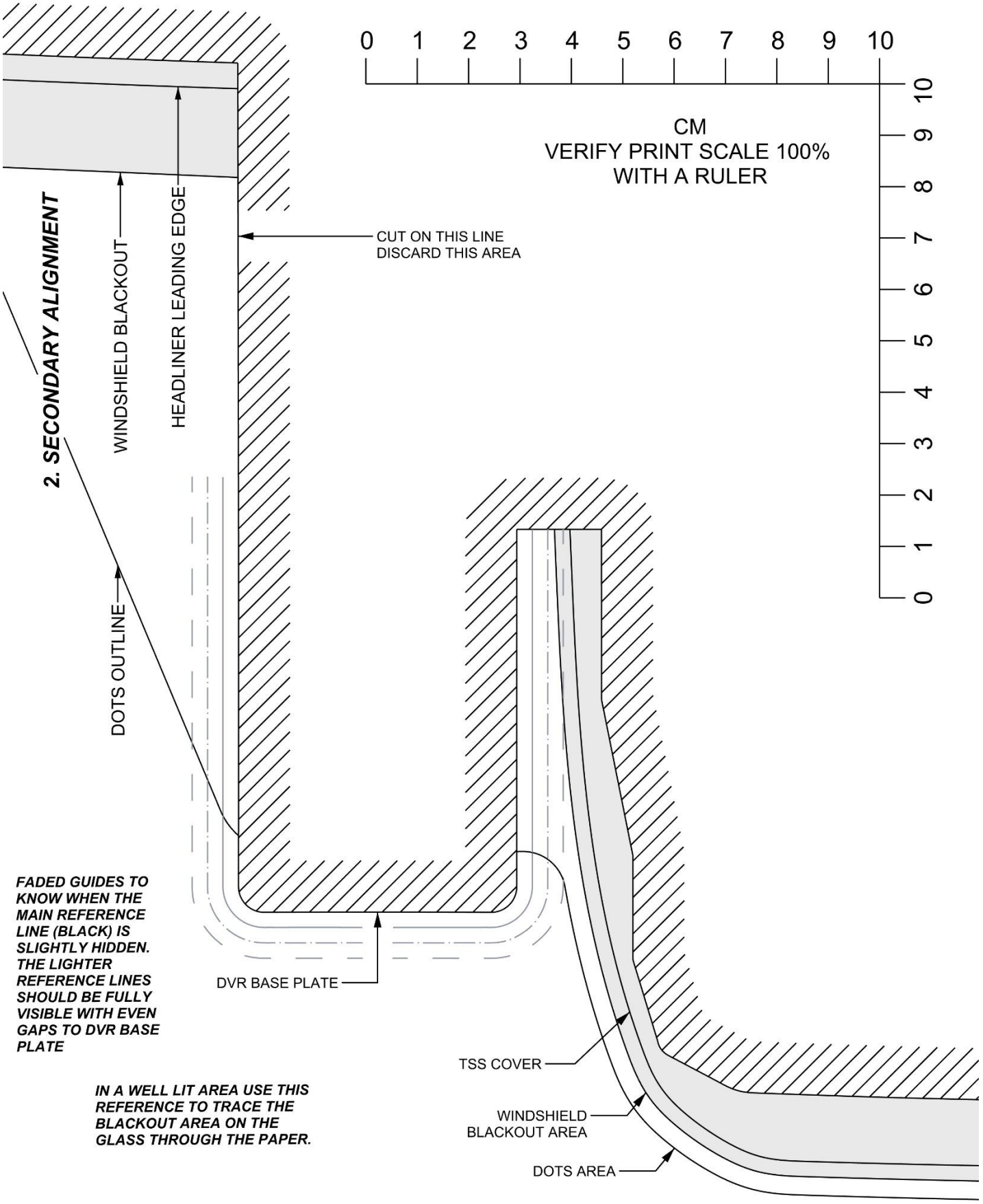
(c) **CAUTION:** Do not touch the positive terminal with any tool.

14. NOTE: Remove DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

15. Owner's Manual

Place the Owner's Manual ("**Quick Start Guide**") in the glove box with the other vehicle owner's manuals.

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TOYOTA INTEGRATED DASHCAM
2024+ GRAND HIGHLANDER LHS TEMPLATE

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TOYOTA GRAND HIGHLANDER 2024 - DASHCAM (Digital Video Recorder)

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

Check:	Look For:
Accessory Function Checks	
☐ Verify parts	Removed items have been discarded & replaced items are in place
☐ Vehicle Startup	Confirm Dashcam does not emit a continuous beep on vehicle startup. If it does, confirm SD card is installed
☐ Power LEDs light up	
☐ Remove Blue Film on Dashcam Lens	Blue Lens Protector Film should be removed and discarded.
☐ Verify that Dashcam Pamphlet is placed in glovebox.	
Vehicle Function Checks	
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal	Confirm standard lighting functions work properly.
☐ Roof Console functions – map lights, sunroof / panoramic roof controls if equipped.	Confirm roof console functions work properly.
☐ EC Mirror – Confirm power and dimming.	Confirm EC Mirror power status LED visible, cover the transparent lens on the reverse side with your hand, the mirror glass should fade darker after a few seconds.
☐ Mirror – View Angle	Confirm mirror is adjusted correctly for visibility for the average driver.
Vehicle Appearance Check	
☐ After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)
☐ All Templates and Tools removed from the vehicle.	Confirm Windshield Template and all tools have been removed from the vehicle.

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Part Number: PT949-34222 (Dashcam)

Legacy Part Numbers: PT949-34221 (Dashcam)
PT949-34220 (Dashcam)

Dashcam Kit Contents

Item #	Quantity Reqd.	Description
1	1	Dashcam Main Unit
2	1	SD Card Holder
3	1	SD Card (16 GB)
4	1	Window Mounting Plate
5	1	Foam Tape
6	2	Cable Ties
7	1	Quick Start Guide

Additional Items Required for Installation

Item #	Quantity Reqd.	Description
1	1	PT949-34222 (Dashcam Unit)
2		

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Temperature Gauge	
Special Tools	**Notes**
Tac24-0007 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0U** is also valid and can be used.
Installation Tools	**Notes**
Panel Tool	
Socket Wrench	With 10 mm Socket
Torque Wrench	With 10 mm Socket
Hooked Panel Tool	
Needle Nose Pliers	For Sun Visor Clip Removal
Cutter	For Zip ties
Special Chemicals	**Notes**
VDC Approved Cleaner	To Clean Windshield

General Applicability

MY24 + Tacoma/Tacoma HV

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-34222)
2	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 2 pcs	Roof Console **RED** Clips if damage occurs during removal. P/N: 90467-09240
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-34220-AA	Camera Unit + SD
2	PT949-60220-AB	SD Card 16GB Industrial
3	PT949-60220-AC	SD Card Holder Assembly
4	PT949-08210-AD	Window Plate with Tape

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.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance.

Table Of Contents

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

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

This document covers such items as: -

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

Please see your Toyota dealer for a copy of this document.

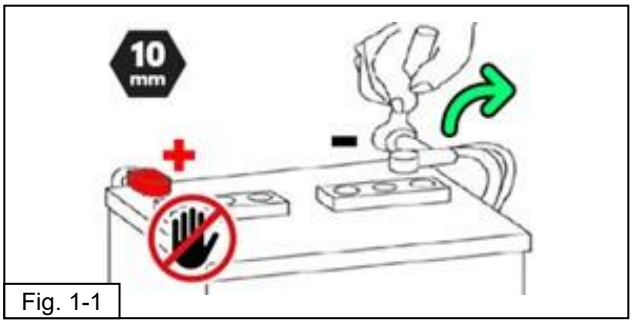
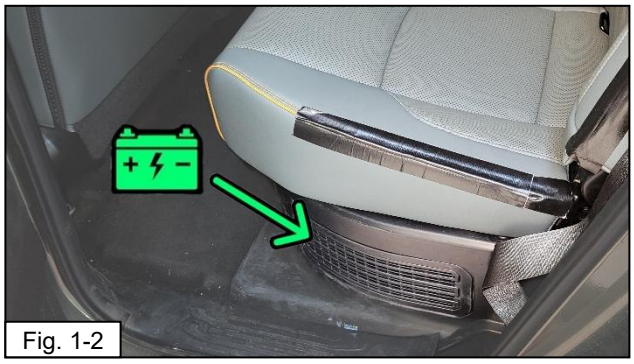
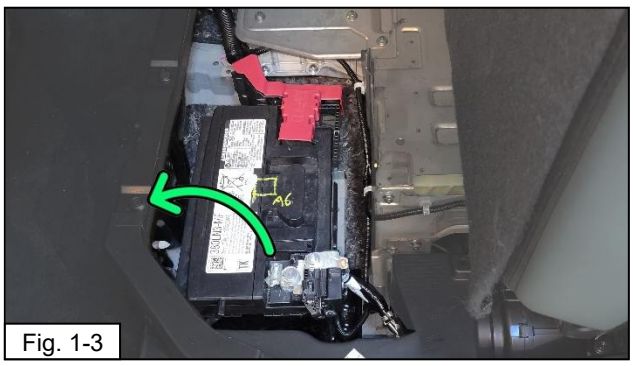


Fig. 1-1


Fig. 1-2


Fig. 1-3

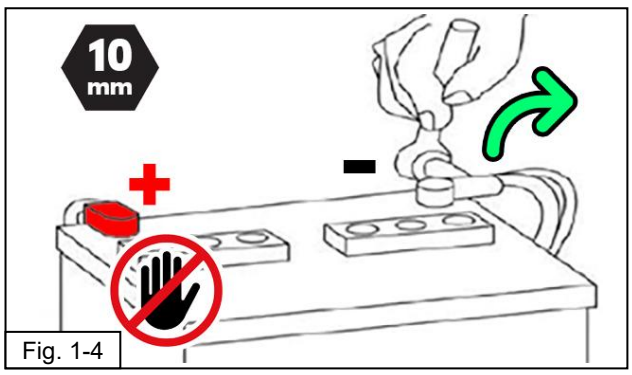


Fig. 1-4

1. Disconnect Battery

(a) Protect the fender / bumper before starting.

(b) The engine components and coolant may be hot.

CAUTION: Do not touch the positive terminal with any tool during battery disconnection.

NOTE: Reinstall DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

Battery Disconnection:

(c) The 12V Battery in the Toyota Tacoma should disconnected by loosening the 10mm nut on the negative terminal. It is not necessary to fully remove this nut (Fig. 1-1)

(d) The 12V Battery in the Hybrid powered Toyota Tacoma is located under the rear passenger seat on the on the driver side. (Fig. 1-2)

(e) If working on the Hybrid model, lift up the seat to gain access to the battery. (Fig 1-3).

(f) Disconnect the Negative Cable by loosening the 10 mm nut shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-4)

(g) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

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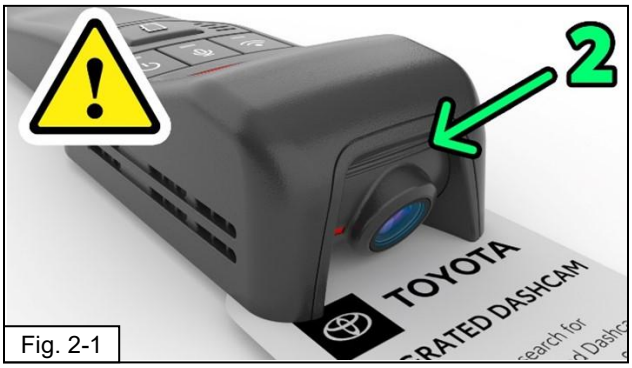


Fig. 2-1

2. Kit Preparation

(a) Check the Dashcam Kits for missing contents or damage.

(b) Confirm Camera Angle Position – **2 visible recessed lines** should be seen below the lens with the camera held in the as-installed orientation. (Fig. 2-1, Note: Camera is up side down in the image)


Fig. 3-1


Fig. 3-2

3. Vehicle Protection

(a) Apply Vehicle Protection to driver and passenger's seat, steering wheel, dashboard, and center console. (Fig. 3-1, 3-2)

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Fig. 4-1

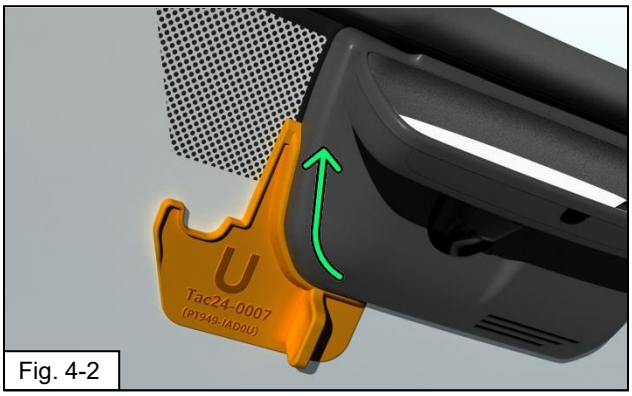


Fig. 4-2

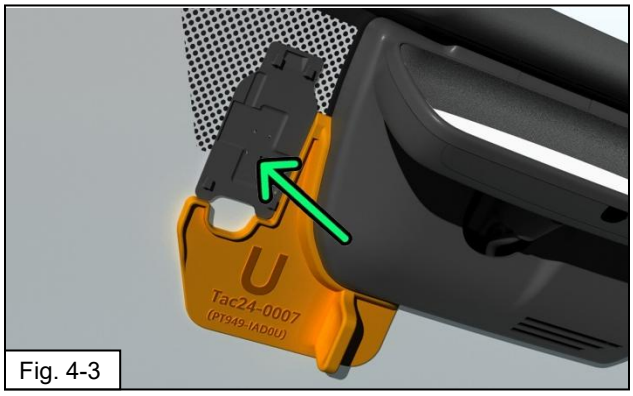


Fig. 4-3

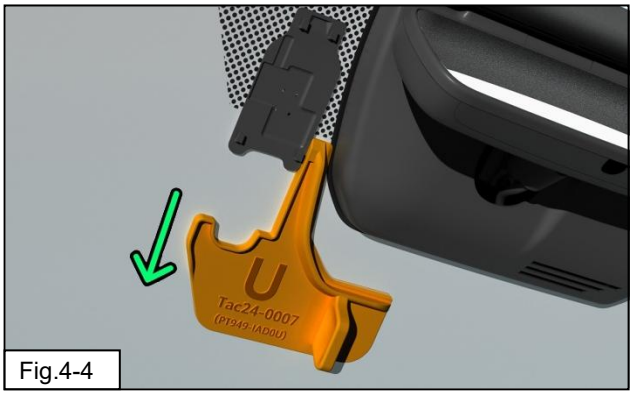


Fig.4-4

4. Install Windshield Base Plate

STOP: The front windshield must be at least 50°F (10°C).

(a) On the driver's side of the vehicle, using window cleaner and a lint free cloth, clean the windshield area next to the TSS cover.

(b) For PPO Installations, please use 3D hard template "**U**" with the part number **"Tac24-0007"** *(Legacy: **PT949-IAD0U**)* (Fig. 4-1) and follow steps (d) through (f).

(c) For Dealer Installations or in the case that the 3D hard template is unavailable**,** please follow steps (g) through (i)

(d) Insert the 3D Template (**Tac24-0007**) between the TSS cover and the windshield glass, it should fit snugly against the TSS cover side walls, and the features of the template should allow it to stay in place hands free. If not, apply a small bit of tape to support the lower edge. *(Fig. 4-2)*

(e) Remove adhesive and stick mounting plate on windshield while aligning to the lower and right-side edges of the mounting plate. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-3)

(f) Remove the 3D hard template by gently pulling towards the base of the windshield (wiper cowl area) to slide it out from under the TSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

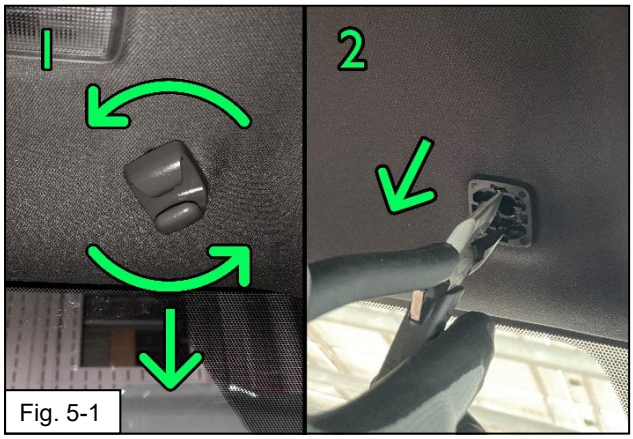


Fig. 5-1

For Dealer Installations / No 3D Hard Template Available:

(g) Using scissors, cut the paper template as indicated. For PPO Installations, please use the 3D hard template provided.

(h) Referencing the TSS cover, align to the indicated line and affix the template to the windshield using tape. (Fig. 4-5)

(i) Remove adhesive and stick mounting plate on windshield paying attention to the reference lines on template. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-6)

(j) Once the base plate is fitted, remove template in the direction towards the lower edge of the windshield and clean any tape residue from the glass.

All Installation types continue from here onwards.

5. Remove Visor Mount Clips and Base

(a) Remove the Sun Visor Hooks on BOTH Driver and Passenger side of the Map Light Console, to allow for gentle pulling down of the headliner without damage.

Note: Both sides remove in the same direction, Passenger side is not mirrored.

(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1 L)

(2) After removing the hook component, release the two tabs and pull out the base, needle nose pliers recommended. (Fig. 5-1 R)

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6. Remove Roof Map Light Console



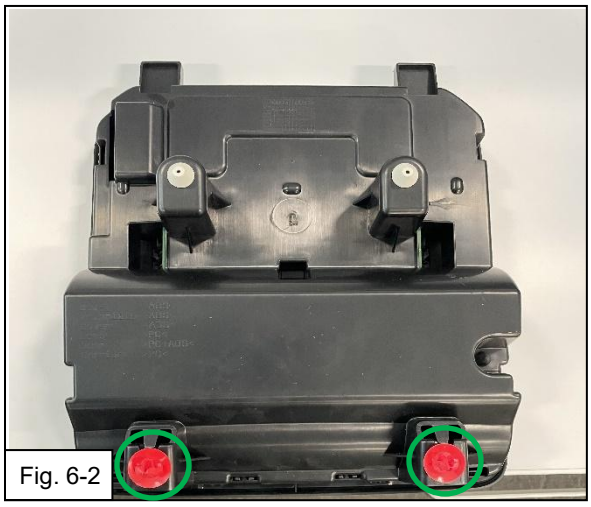
Fig. 6-1

(a) Remove the roof console by pulling down firmly on the forward edge (towards the front of the vehicle). Pull down firmly to release front 2 clips first then again pull down then push forward (Fig. 6-1)

(1) A plastic panel removal tool may be used to pull down the console.

(2) CAUTION: Do **not** pry against the headliner or it will leave visible damage.

(3) Note the appearance of the clips in the image to better understand the removal process. (Fig. 6-2)

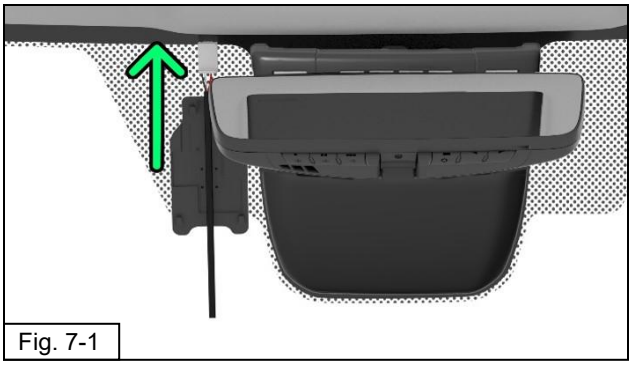

Fig. 6-2

(b) Inspect the console clips and replace them if damaged (Red: 90467-09240, 2 PCS).

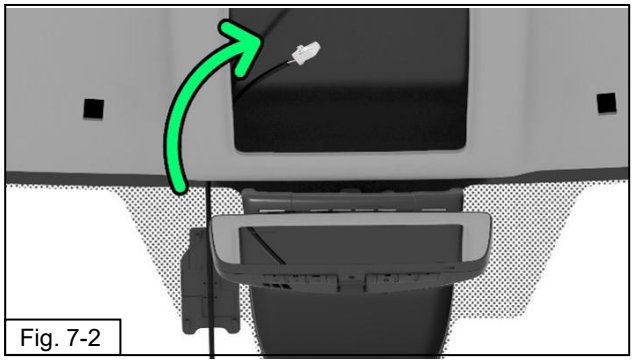
(c) Once fully detached, disconnect the wire harness from the roof console and place the console in a safe place to avoid damage.

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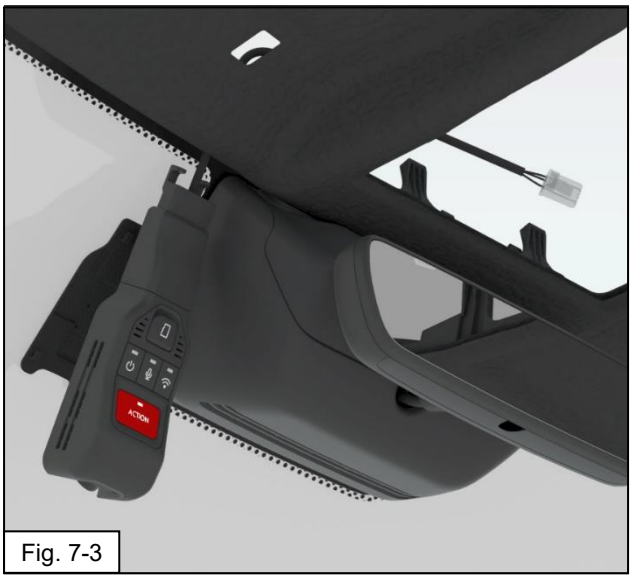
7. Route Dashcam Harness through the Headliner


Fig. 7-1

(a) From the Driver's side of the vehicle, feed the Dashcam's pigtail harness up into the headliner, directly above the Dashcam mounting plate fixed to the windshield. Take care not to crease the headliner in the process. (Fig. 7-1)


Fig. 7-2

(b) Route the Dashcam pigtail through the headliner to the map light console area. (Fig. 7-2)


Fig. 7-3

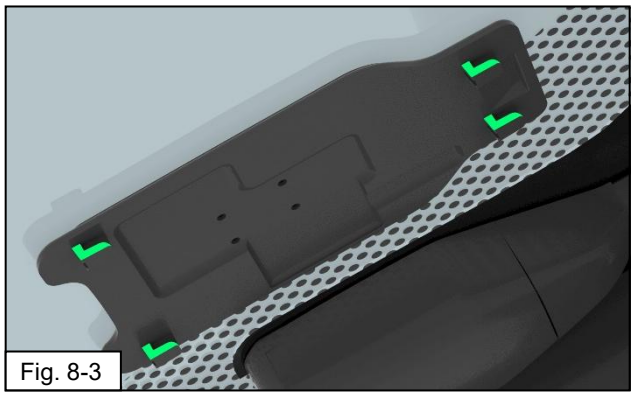
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 7-3)

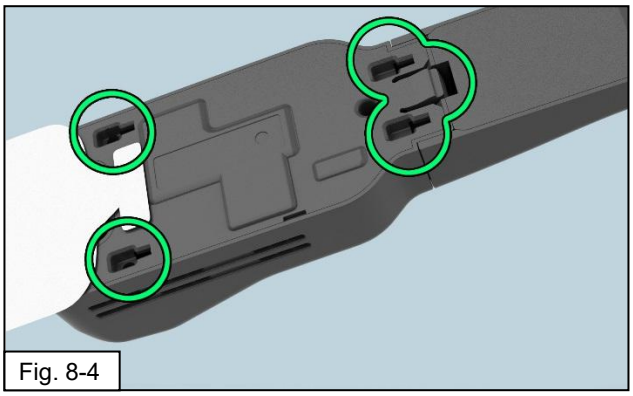
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Fig. 8-1


Fig. 8-2


Fig. 8-3


Fig. 8-4

8. Fitting the Dashcam to Base Plate

NOTE: The Hang Tag that is attached to the Dashcam is **only to be removed by the end user.** As the camera turns on with ignition, the hang tag is intended to block recording while the vehicle is being processed through areas which may be confidential / contain unreleased vehicles.

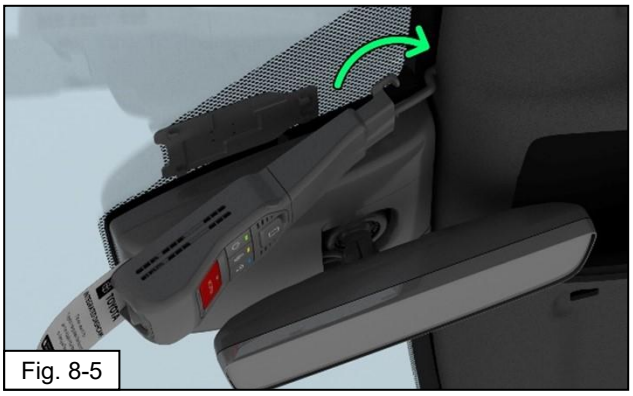
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 8-1)

(a) **IMPORTANT: Remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 8-2)

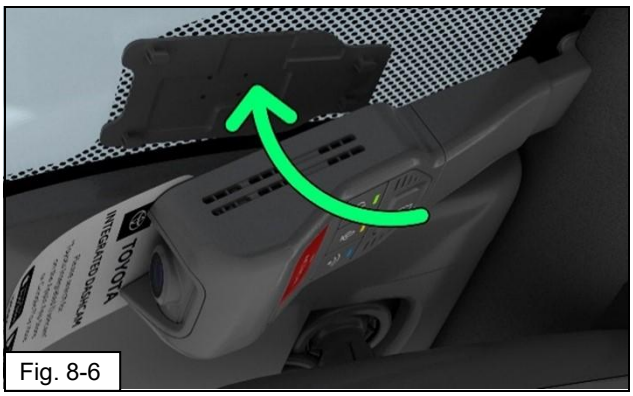
NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 8-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 8-4)

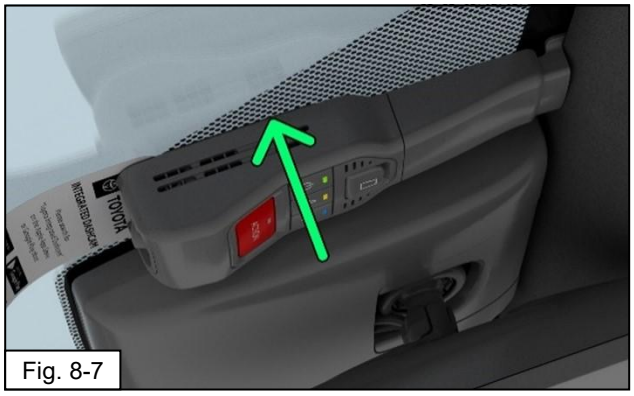
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Fig. 8-5

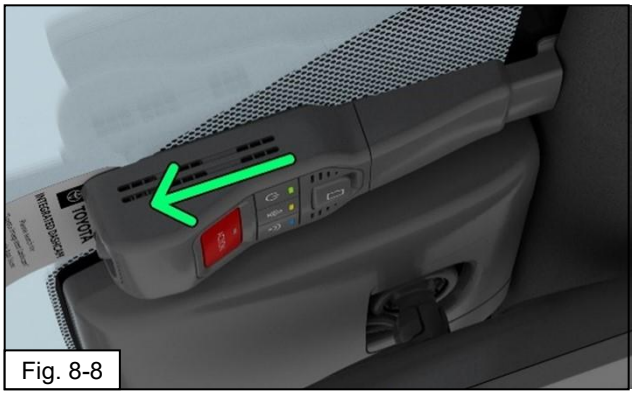
(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 8-5)


Fig. 8-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 8-6)

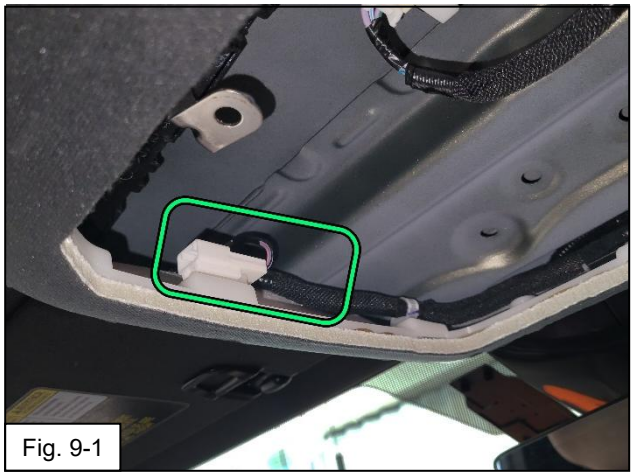

Fig. 8-7

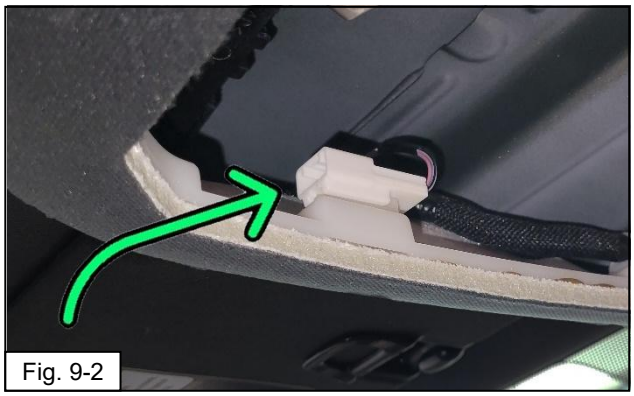
(e) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 8-7)

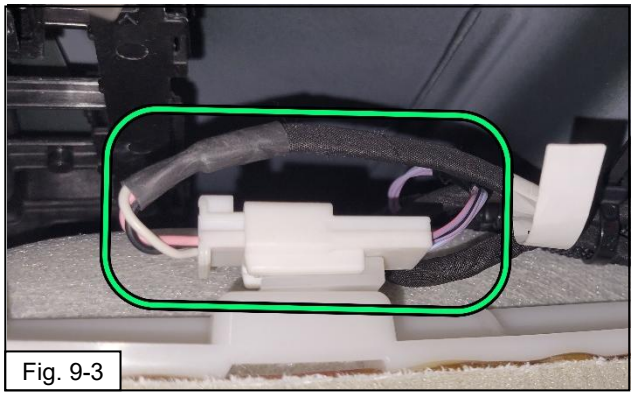

Fig. 8-8

(f) Slide the Dashcam down towards the to the T-hooks and engage the clip that secures it. Adjust the telescopic wire harness cover as required to sit correctly, and confirm the hooks are tucked inside the leading edge of the headliner. (Fig. 8-8)

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Fig. 9-1


Fig. 9-2


Fig. 9-3

9. Connect the Power Harness

(a) Locate the Dashcam Pre-wire harness connector secured to the headliner on the Driver' side of the Map Light Console opening. It is the white 5 pin connector that will appear to be unused. (Fig. 9-1, Fig. 9-2)

(b) Connect the Dashcam Pigtail harness to this pre-wire connector, ensuring there are no obstructions preventing bundling of the harness. (Fig.9-3)

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10. Route / Bundle Wire Harness

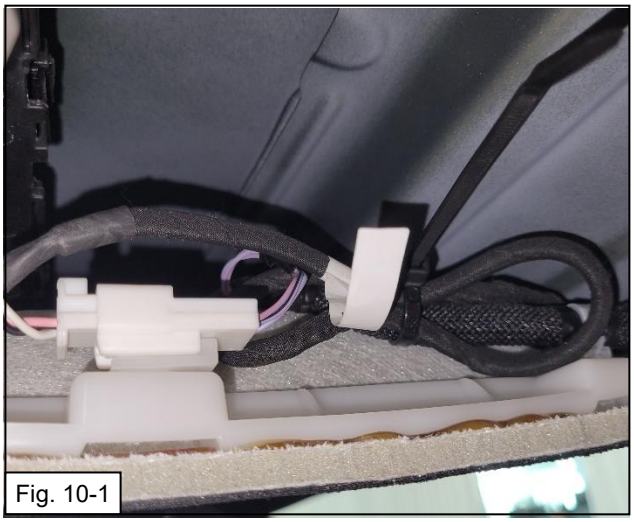

Fig. 10-1


Fig. 10-2

(a) Confirm that the Dashcam Pigtail Harness is securely fitted to the pre-wire connector. Ensure that the Pre-wire connector is still securely mounted in its original location on the headliner plastic frame. (Fig. 10-1)

(b) Secure the Dashcam pigtail harnesses against the existing harness that leads to the Pre-Wire Connector on the driver's side of the map light opening. Loop and bundle them as required. Arrange this in a way that does not obstruct the console from being reinstalled. Tighten the zip tie and snip off the excess, and then **orient the zip tie to have the block in the upright position to prevent noises from contact with the overhead console.** (Fig. 10-2)

(c) Ensure that the connection for the console is still free to be connected and that the bundled harnesses are not obstructing the console map light connector.

(d) **Note: Take care not to cause bulging in the headliner. Some adjustments to the bundle may be required to avoid bulging the headliner.**

(e) Note: Do not block access to the clip holes in the body structure or the roof console may not fit properly.

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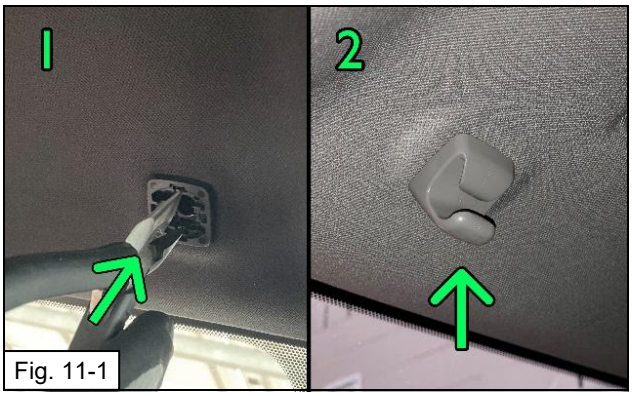


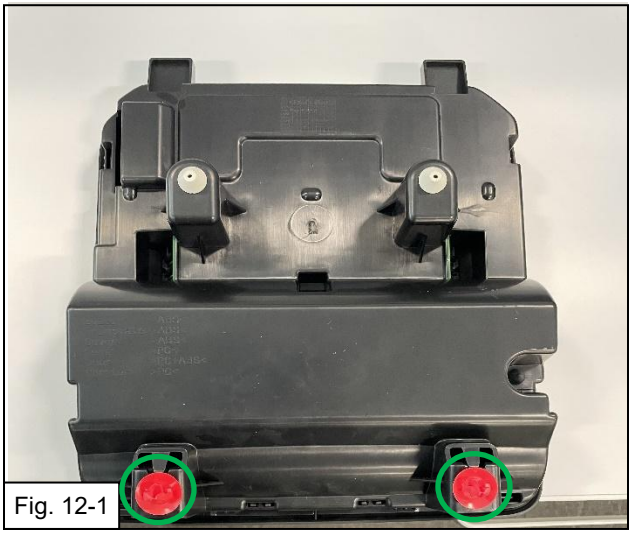
Fig. 11-1

11. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 11-1 L)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 11-1 R)

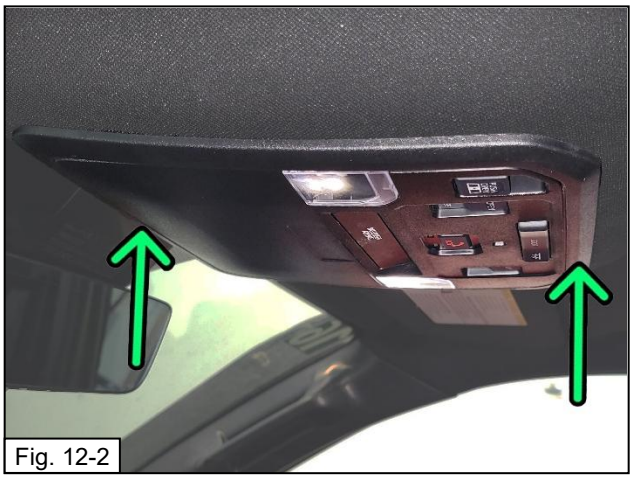
12. Reinstall Overhead Console


Fig. 12-1

(a) Re-connect harness for the roof map light console, test map lights and sunroof control if equipped.

(b) Check all console clips are in good condition and are present on the console. If any are still installed in the roof of the vehicle and have separated from the console, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 12-1)

(c) Reinstall the console by carefully aligning the clips towards the rear of the opening and observe the marks in headliner for alignment references. Carefully push it in place, to lock. Take care not to apply pressure to the lens covers. Check all corners for gaps. If needed, reposition harnesses and try again. (Fig. 12-2)


Fig. 12-2

(d) Note: Be careful aligning the clips to holes to avoid damage.

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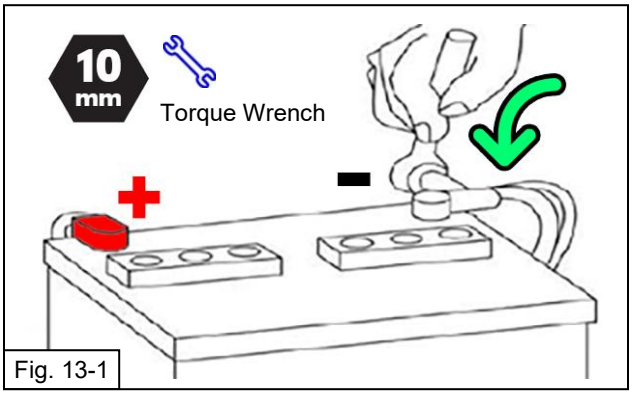


Fig. 13-1

13. Reconnect Vehicle Battery

(a) Reconnect the Negative Battery Cable and replace the cover trim if necessary.

(b) Torque to 5.4 N•m (48 in•lbf)

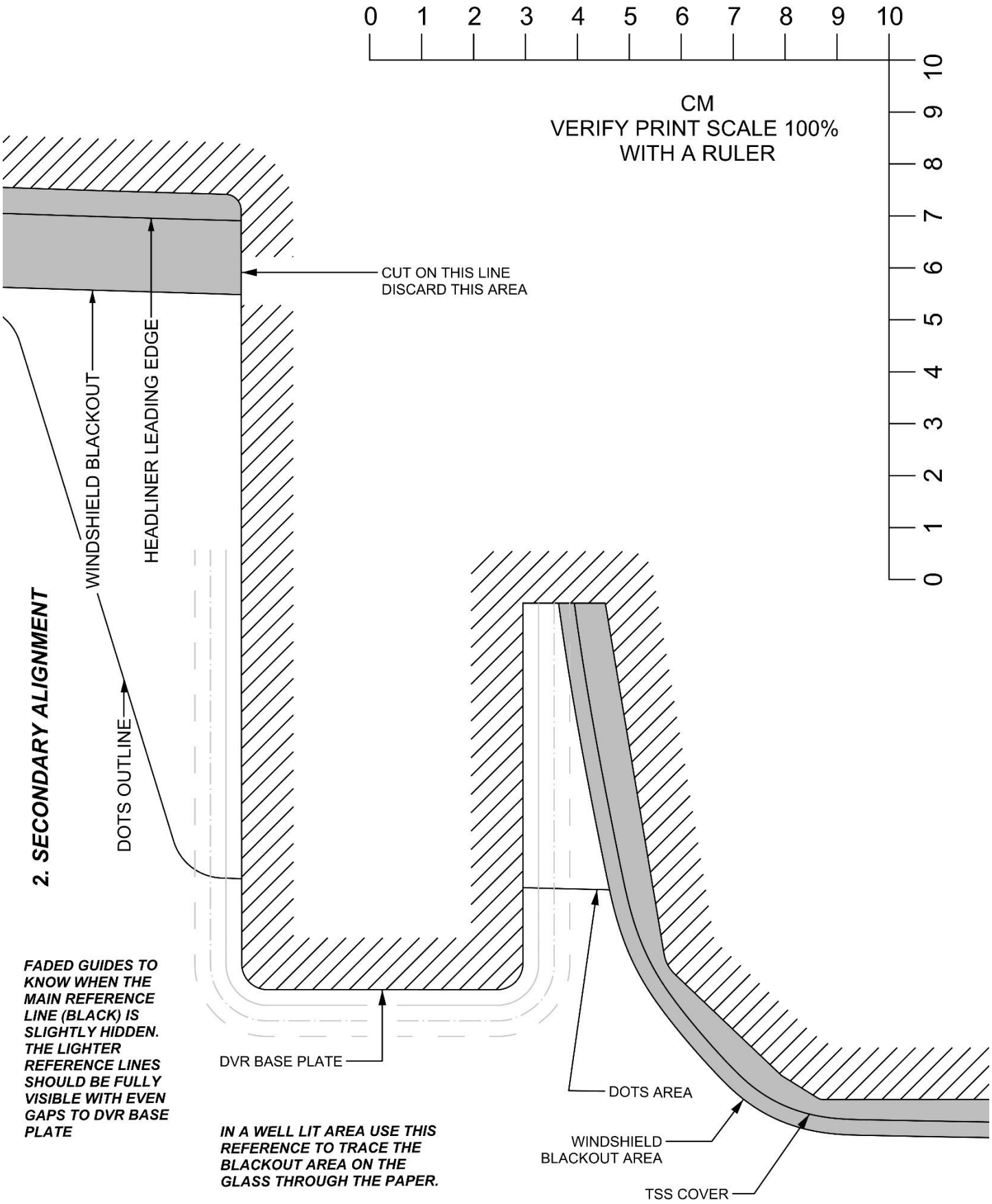
(c) **CAUTION:** Do not touch the positive terminal with any tool.

14. NOTE: Remove DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

15. Owner's Manual

Place the Owner's Manual ("**Quick Start Guide**") in the glove box with the other vehicle owner's manuals.

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TOYOTA INTEGRATED DASHCAM
2024 TACOMA LHS TEMPLATE

1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

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

Check:	Look For:
Accessory Function Checks	
☐ Verify parts.	Removed items have been discarded & replaced items are in place.
☐ Vehicle Startup	Confirm Dashcam does not emit a continuous beep on vehicle startup. If it does, confirm SD card is installed.
☐ Power LEDs light up.	
☐ Remove Blue Film on Dashcam Lens	Blue Lens Protector Film should be removed and discarded.
☐ Verify that Dashcam Pamphlet is placed in glovebox.	
Vehicle Function Checks	
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal	Confirm standard lighting functions work properly.
☐ Roof Console functions – map lights, sunroof / panoramic roof controls if equipped.	Confirm roof console functions work properly.
☐ EC Mirror – Confirm power and dimming.	Confirm EC Mirror power status LED visible, cover the transparent lens on the reverse side with your hand, the mirror glass should fade darker after a few seconds.
☐ Mirror – View Angle	Confirm mirror is adjusted correctly for visibility for the average driver.
Vehicle Appearance Check	
☐ After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMNA Accessory Quality Shipping Standard.)
☐ All Templates and Tools removed from the vehicle.	Confirm Windshield Template and all tools have been removed from the vehicle.

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Part Number: PT949-34222 (Dashcam)

Legacy Part Numbers: PT949-76220 (Dashcam)
PT949-76221 (Dashcam)

Dashcam Kit Contents

Item #	Quantity Reqd.	Description
1	1	Dashcam Main Unit
2	1	SD Card Holder
3	1	SD Card (16 GB)
4	1	Window Mounting Plate
5	1	Foam Tape
6	2	Cable Ties
7	1	Quick Start Guide

Y-Harness Kit Contents

Item #	Quantity Reqd.	Description
1	2	Foam Tape
2	4	Cable Ties

Additional Items Required for Installation

Item #	Quantity Reqd.	Description
1	1	PT949-34222 (Dashcam Unit)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Temperature Gauge	
Special Tools	**Notes**
GX24-0009 Install Aid **Note: RHS VERSION**	**For Port Installations Only** **Check for RHS version, order new one if required.** The legacy part number **PT949-IAD0Y** is also valid and can be used.
Installation Tools	**Notes**
Panel Tool	
Socket Wrench	With 10 mm Socket
Torque Wrench	With 10 mm Socket
Hooked Panel Tool	
Needle Nose Pliers	For Sun Visor Clip Removal
Special Chemicals	**Notes**
VDC Approved Cleaner	To Clean Windshield

General Applicability

MY24 + Land Cruiser HV

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-34222)
2	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 2 pcs	Roof Console **BLUE** Clips if damage occurs during removal. P/N: 90467-10167
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-34220-AA	Camera Unit + SD
2	PT949-08210-AB	SD Card 16GB Industrial
3	PT949-08210-AC	SD Card Holder Assembly
4	PT949-08210-AD	Window Plate with Tape

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 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.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance.

Table Of Contents

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

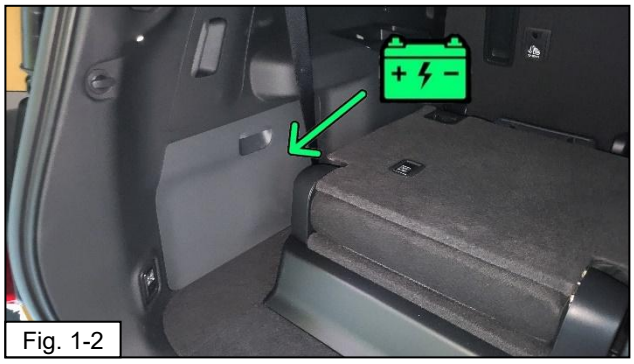
These guidelines can be found in the "Accessory Installation Practices" document.

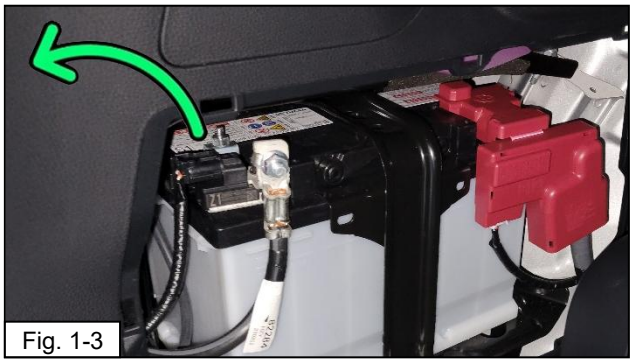
This document covers such items as: -

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

Please see your Toyota dealer for a copy of this document.


Fig. 1-1


Fig. 1-2


Fig. 1-3

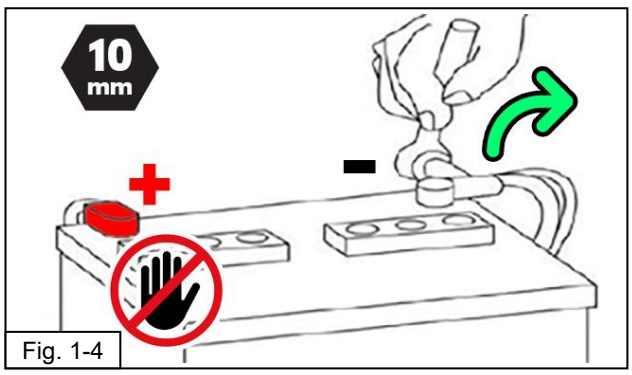


Fig. 1-4

1. Disconnect Battery

(a) Protect the fender/bumper before starting.

(b) The engine components and coolant may be hot.

CAUTION: Do not touch the positive terminal with any tool during battery disconnection.

NOTE: Reinstall DCC Cut Fuse (Short Pin) if applicable. (Validate location by following the fuse box diagram on the reverse side of the relay cover).

Battery Disconnection:

(c) The 12V Battery in the gas-powered Toyota Land-Cruiser is located in the engine bay below a cover panel on the passenger side, in the shown location. (Fig. 1-1)

(d) The 12V Battery in the Hybrid powered Toyota Land-Cruiser is located in the trunk compartment on the driver side. (Fig. 1-2)

(e) If working on the Hybrid model, remove the cargo trim panel and remove the battery cover panel. (Fig 1-3).

(f) Disconnect the Negative Cable by loosening the 10 mm nut shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-4)

(g) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

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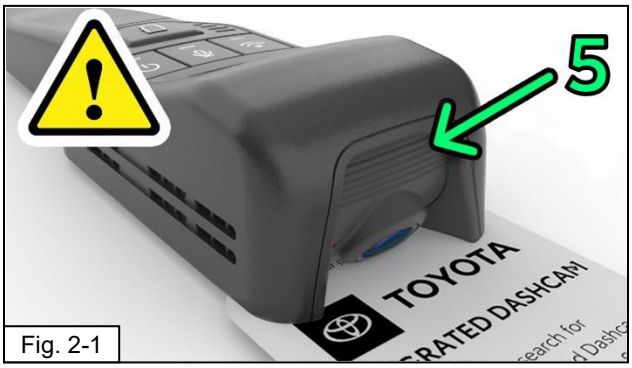


Fig. 2-1

2. Kit Preparation

(a) Check the Dashcam Kits for missing contents or damage.

(b) Confirm Camera Angle Position – **5 visible recessed lines** should be seen below the lens with the camera held in the as-installed orientation. (Fig. 2-1, Note: Camera is up side down in the image)


Fig. 3-1


Fig. 3-2

3. Vehicle Protection

(a) Apply Vehicle Protection to driver and passenger's seat, steering wheel, dashboard, and center console. (Fig. 3-1, 3-2)

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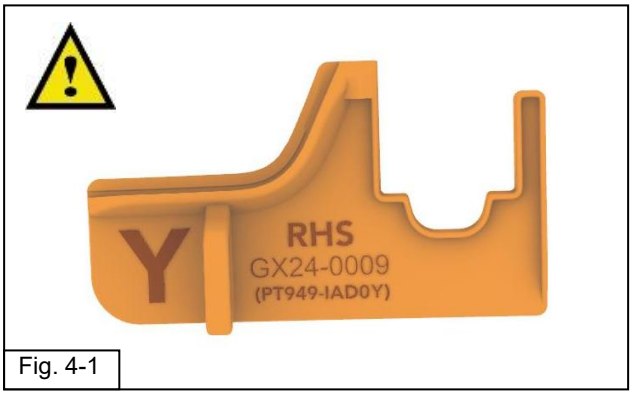


Fig. 4-1

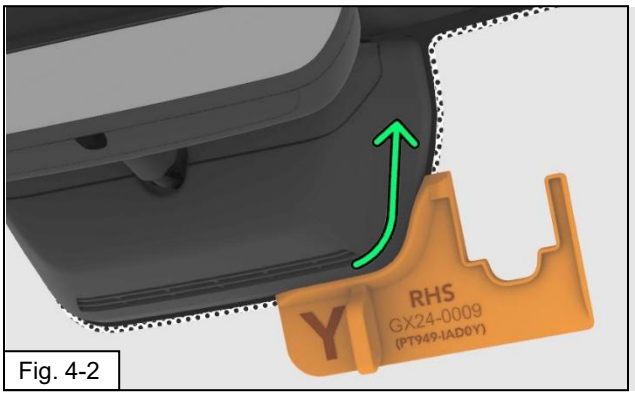


Fig. 4-2

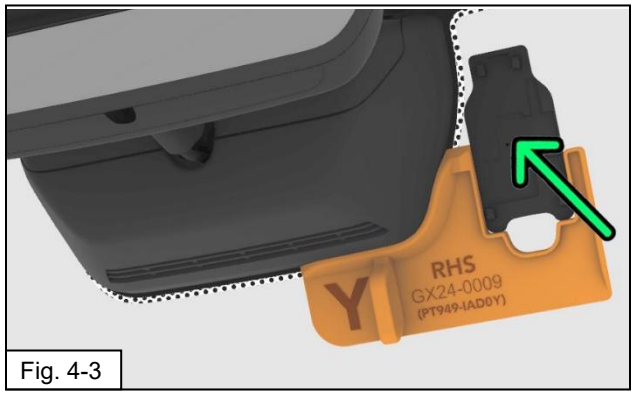


Fig. 4-3

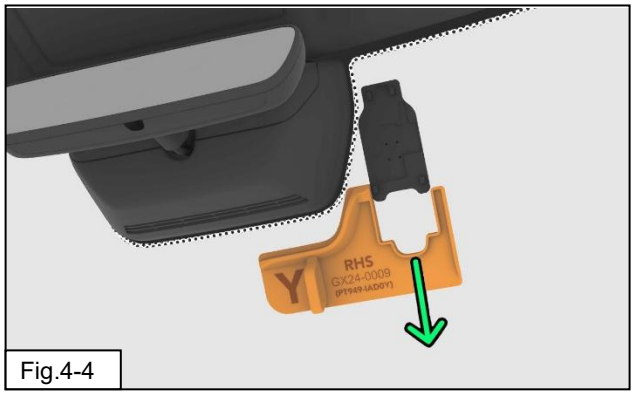


Fig.4-4

4. Install Windshield Base Plate

STOP: The front windshield must be at least 50°F (10°C).

(a) On the passenger's side of the vehicle, using window cleaner and a lint free cloth, clean the windshield area next to the TSS cover.

(b) For PPO Installations, please use 3D hard template "**Y**" with the part number **"GX24-0009"** *(Legacy: **PT949-IAD0Y**)* (Fig. 4-1) and follow steps (d) through (f).

Please ensure the IAD has the **"RHS" marking**. Request a new one or use paper template if required.

(c) For Dealer Installations or in the case that the 3D hard template is unavailable**,** please follow steps (g) through (i)

(d) Insert the 3D Template (**GX24-0009**) between the TSS cover and the windshield glass, it should fit snugly against the TSS cover side walls, and the features of the template should allow it to stay in place hands free. If not, apply a small bit of tape to support the lower edge. *(Fig. 4-2)*

(e) Remove adhesive and stick mounting plate on windshield while aligning to the lower and right-side edges of the mounting plate. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-3)

(f) Remove the 3D hard template by gently pulling towards the base of the windshield (wiper cowl area) to slide it out from under the TSS cover. (Fig. 4-4)

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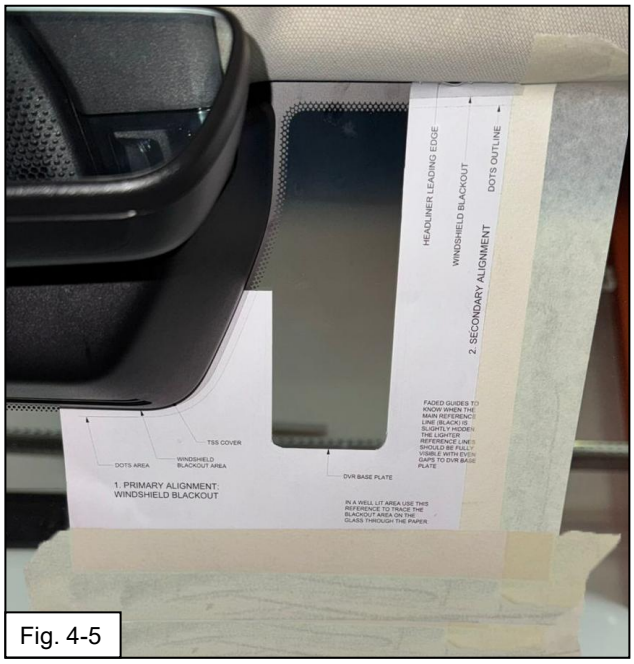


Fig. 4-5

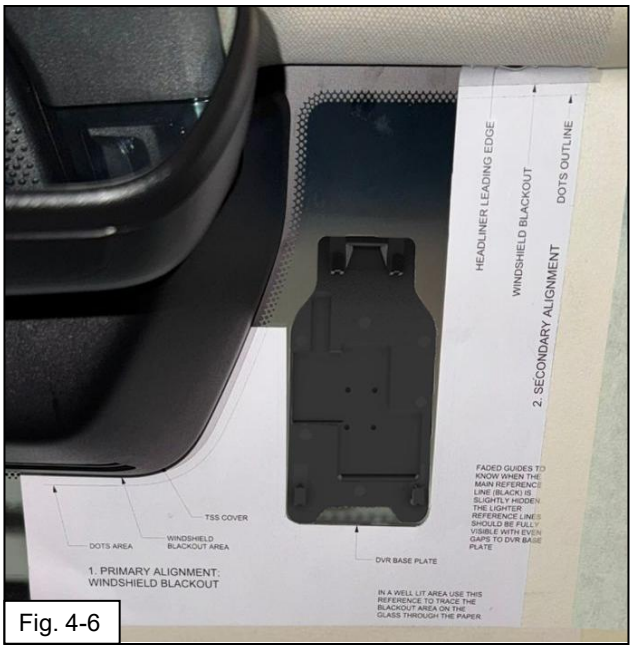


Fig. 4-6

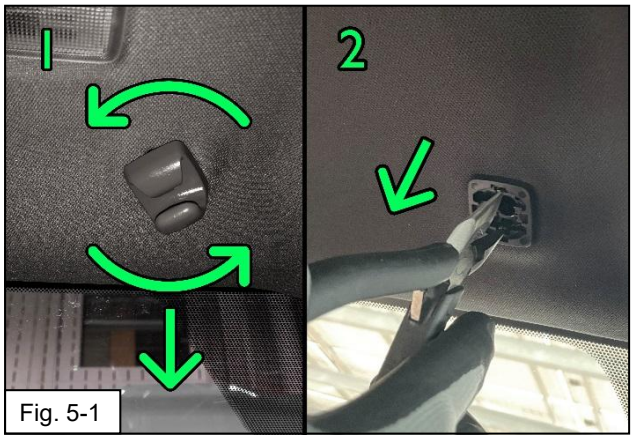


Fig. 5-1

For Dealer Installations / No 3D Hard Template Available:

(g) Using scissors, cut the paper template as indicated. For PPO Installations, please use the 3D hard template provided.

(h) Referencing the TSS cover on the passenger side, align to the indicated line and affix the template to the windshield using tape. (Fig. 4-5)

(i) Remove adhesive and stick mounting plate on windshield paying attention to the reference lines on template. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-6)

(j) Once the base plate is fitted, remove template in the direction towards the lower edge of the windshield and clean any tape residue from the glass.

All Installation types continue from here onwards.

5. Remove Visor Mount Clips and Base

(a) Remove the Sun Visor Hooks on BOTH Driver and Passenger side of the Map Light Console, to allow for gentle pulling down of the headliner without damage.

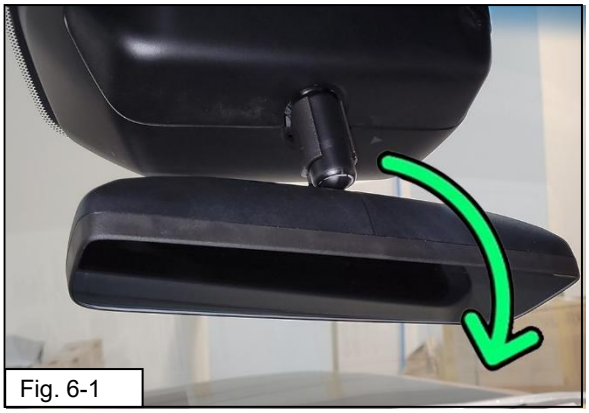
Note: Both sides remove in the same direction, Passenger side is not mirrored.

(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1 L)

(2) After removing the hook component, release the two tabs and pull out the base, needle nose pliers recommended. (Fig. 5-1 R)

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6. Remove Roof Map Light Console


Fig. 6-1

(a) Remove the roof console by first moving the mirror down for clearance (Fig. 6-1), then by pulling down firmly on the forward edge (towards the front of the vehicle).

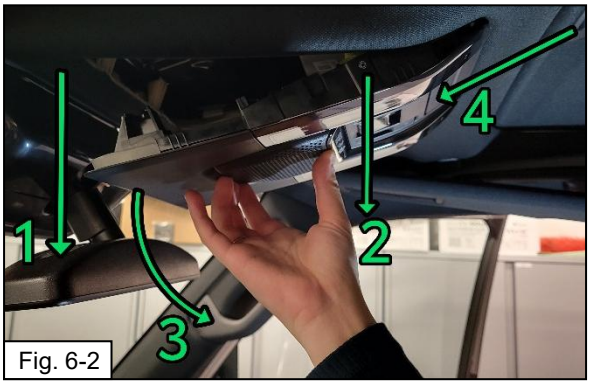


Fig. 6-2

(b) (1) Pull down firmly to release the front 2 clips first, (2) then again pull down on the clear plastic lens to release the 2 clips at the rear edge. (3) Now rotate the console away from the headliner, (4) and slide it out towards the front of the vehicle (towards the windscreen). (Fig. 6-2)

(c) Do NOT pull down on the rear edge first as this may cause visible headliner damage.

(1) A plastic panel removal tool may be used to pull down the console.

(2) CAUTION: Do **not** pry against the headliner or it will leave visible damage.

(3) Note the appearance of the clips in the image to better understand the removal process. (Fig. 6-3)

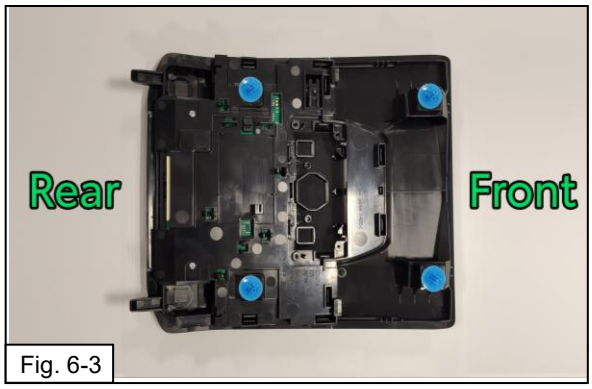
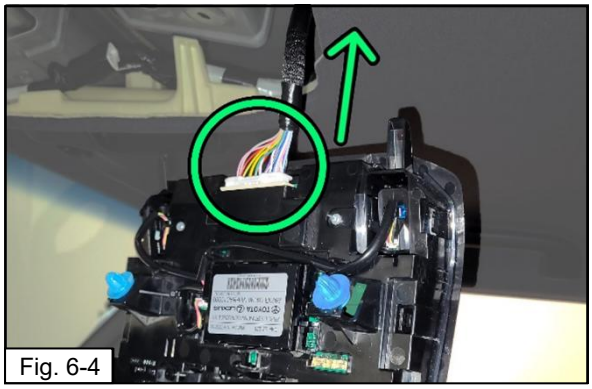


Fig. 6-3

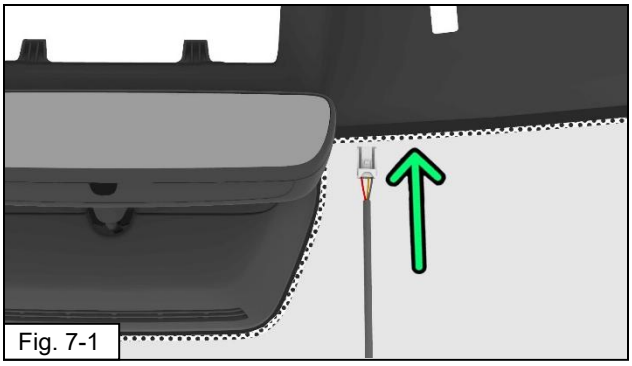

Fig. 6-4

(d) Inspect the console clips and replace them if damaged (Yellow: 90467-09245, Blue: 90467-10167).

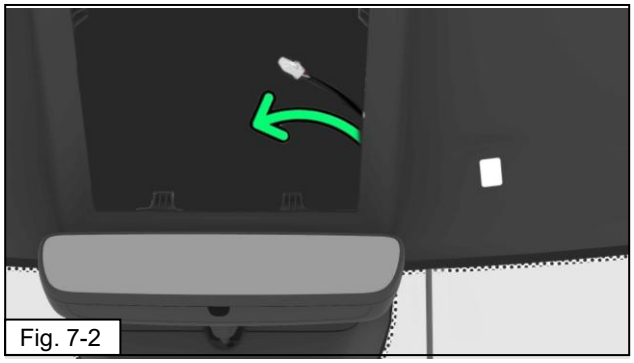
(e) Once fully detached, disconnect the wire harness from the roof console and place the console in a safe place to avoid damage. (Fig. 6-4)

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7. Route the Dashcam Harness through the Headliner


Fig. 7-1

(a) From the Passenger side of the vehicle, feed the Dashcam's pigtail harness up into the headliner, directly above the Dashcam mounting plate fixed to the windshield. Take care not to crease the headliner in the process. (Fig. 7-1)


Fig. 7-2

(b) Route the Dashcam pigtail through the headliner to the map light console area. (Fig. 7-2)


Fig. 7-3

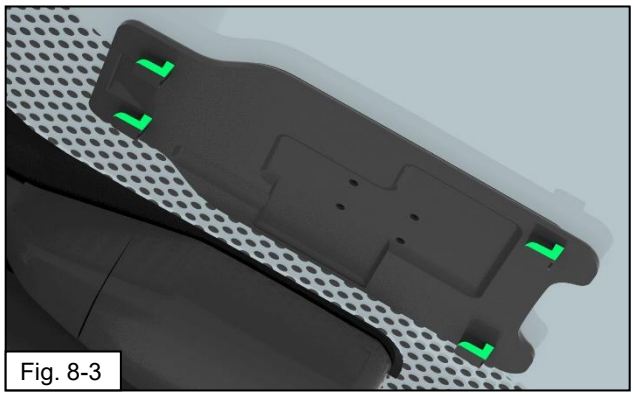
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 7-3)

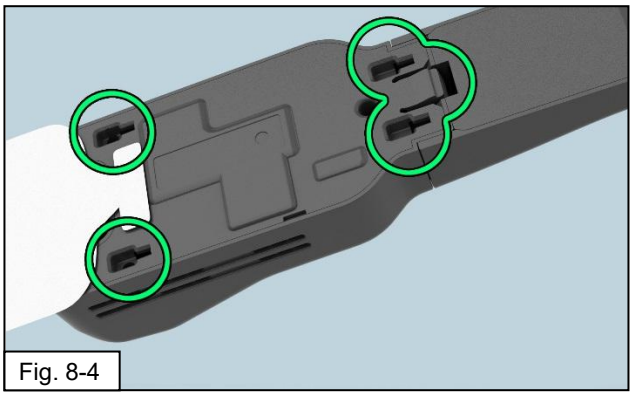
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Fig. 8-1


Fig. 8-2


Fig. 8-3


Fig. 8-4

8. Fitting the Dashcam to Base Plate

NOTE: The Hang Tag that is attached to the Dashcam is **only to be removed by the end user.** As the camera turns on with ignition, the hang tag is intended to block recording while the vehicle is being processed through areas which may be confidential / contain unreleased vehicles.

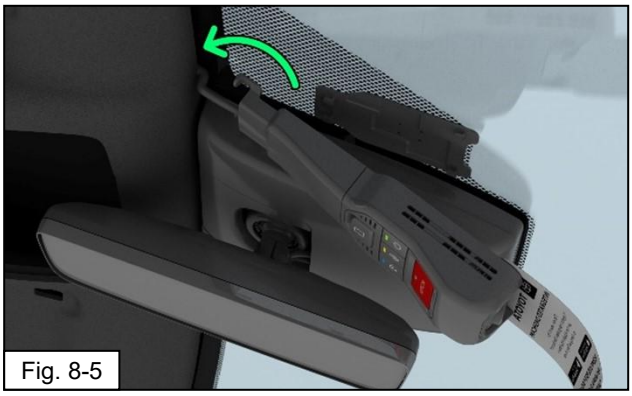
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 8-1)

(a) **IMPORTANT: Remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 8-2)

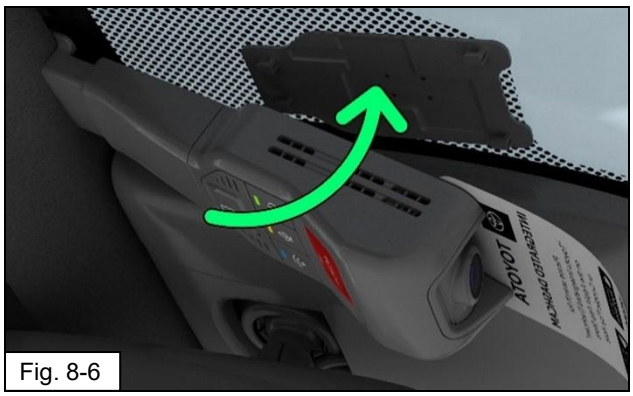
NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 8-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 8-4)

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Fig. 8-5

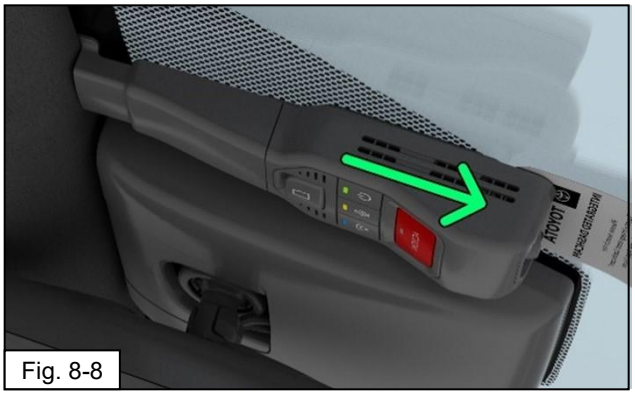
(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 8-5)


Fig. 8-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 8-6)


Fig. 8-7

(e) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 8-7)


Fig. 8-8

(f) Slide the Dashcam down towards the to the T-hooks and engage the clip that secures it. Adjust the telescopic wire harness cover as required to sit correctly, and confirm the hooks are tucked inside the leading edge of the headliner. (Fig. 8-8)

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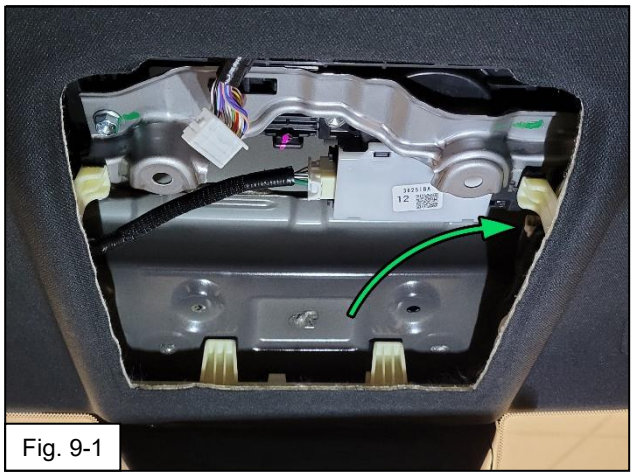

Fig. 9-1


Fig. 9-2


Fig. 9-3

9. Connect the Power Harness

(a) Locate the Dashcam Pre-wire harness connector secured on the Passenger's side of the Map Light Console opening. It is the white 5-pin connector that will appear to be unused. (Fig. 9-1, Fig. 9-2)

(b) Connect the Dashcam Pigtail harness to this pre-wired connector, ensuring no obstructions are preventing the bundling of the harness. (Fig.9-3)

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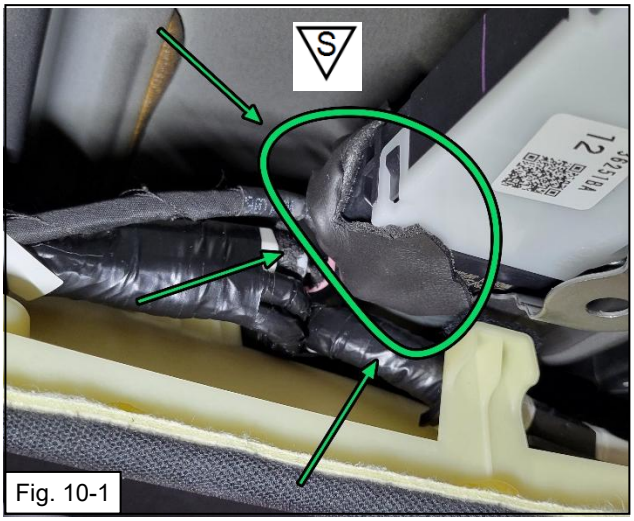
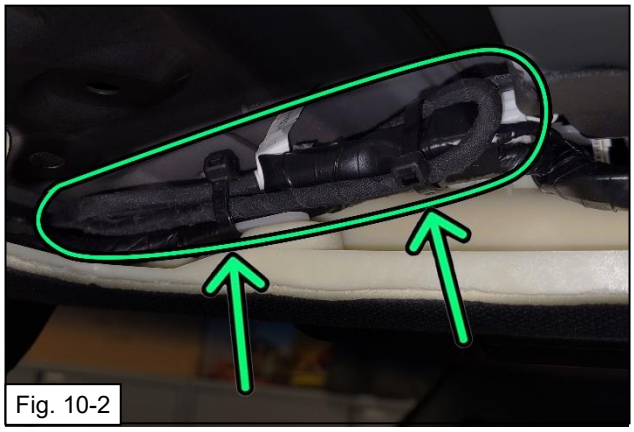


Fig. 10-1


Fig. 10-2

10. Route / Bundle Wire Harness

(a) Confirm that the Dashcam Pigtail Harness is securely fitted to the pre-wire connector. Ensure that the Pre-wire connector is still securely mounted in its original location on the headliner plastic frame.

(b) After connecting, wrap the corner of the control module near the Dashcam Harness with the supplied foam tape. (Fig. 10-1)

(c) Secure the Dashcam pigtail harnesses against the existing harness that leads to the Pre-Wire Connector on the passenger's side of the map light opening. Loop and bundle them as required. Arrange this in a way that does not obstruct the console from being reinstalled. Tighten the zip tie and snip off the excess, and then **orient the zip tie to have the block in the upright position to prevent noises from contacting the overhead console.** (Fig. 10-2)

(d) **Note: Take care not to cause bulging in the headliner. Some adjustments to the bundle may be required to avoid bulging the headliner.**

(e) **Note: Do not block access to the clip holes in the body structure or the roof console may not fit properly.**

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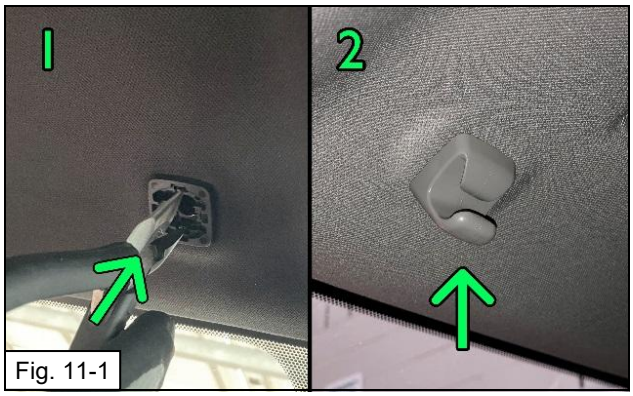
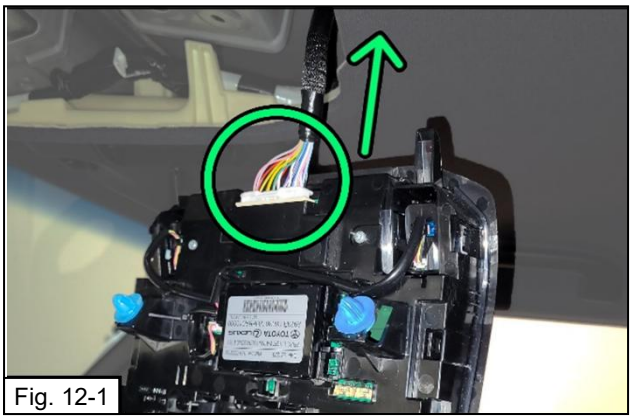


Fig. 11-1

11. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 11-1 L)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 11-1 R)


Fig. 12-1

12. Reinstall Overhead Console

(a) Re-connect the harness for the overhead console, test map lights, and sunroof control if equipped. (Fig. 12-1)

(b) Check all console clips are in good condition and are present on the console. If any are still installed in the roof of the vehicle and have separated from the console, a panel tool with a forked end can be used to pry them out, and then reinstall in the console.

(c) Reinstall the console by carefully aligning the clips towards the rear of the opening and observe the marks in the headliner for alignment references. Carefully push into place to lock, starting at the rear and then the front. Take care not to apply pressure to the lens covers. Check all corners for gaps. If needed, reposition the harnesses and try again. (Fig. 12-2)

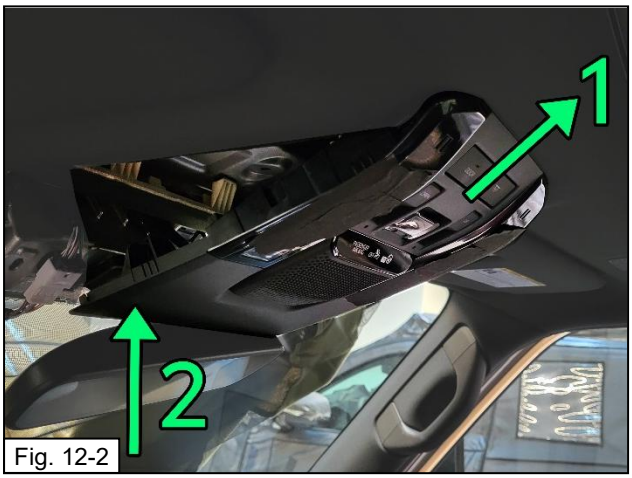


Fig. 12-2

⚠ **(d) Note: Be careful aligning the clips to holes to avoid damage.**

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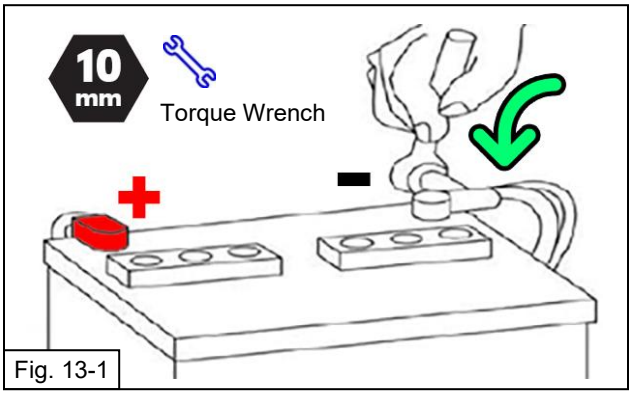


Fig. 13-1

13. Reconnect Vehicle Battery

(a) Reconnect the Negative Battery Cable and replace the cover trim if necessary.

(b) Torque to 5.4 N•m (48 in•lbf)

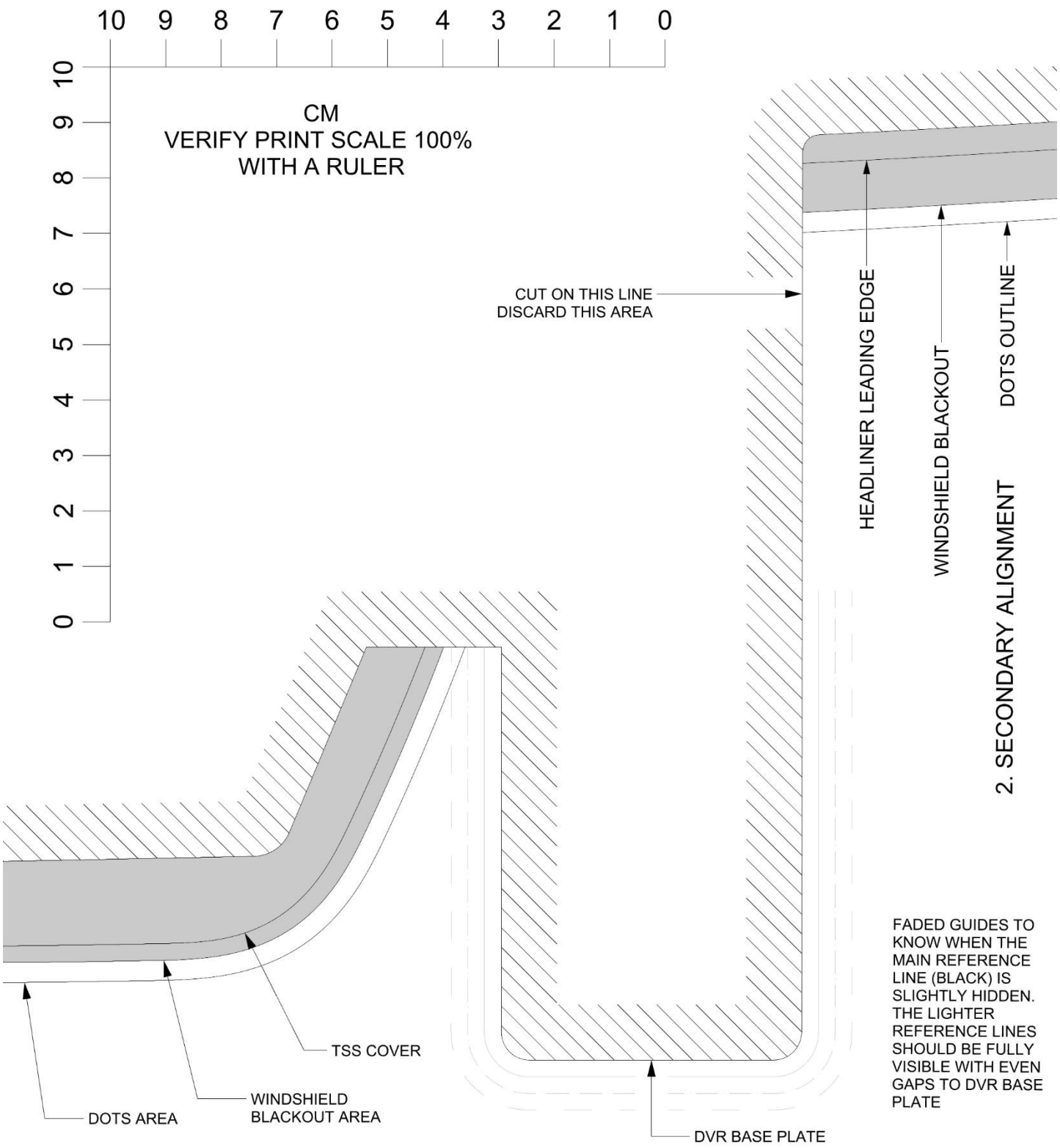
(c) **CAUTION:** Do not touch the positive terminal with any tool.

14. NOTE: Remove DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

15. Owner's Manual

Place the Owner's Manual ("**Quick Start Guide**") in the glove box with the other vehicle owner's manuals.

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1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

IN A WELL LIT AREA USE THIS REFERENCE TO TRACE THE BLACKOUT AREA ON THE GLASS THROUGH THE PAPER.

TOYOTA INTEGRATED DASHCAM
2024 LAND CRUISER RHS TEMPLATE

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

Check:	Look For:
Accessory Function Checks	
☐ Verify parts.	Removed items have been discarded & replaced items are in place.
☐ Vehicle Startup	Confirm Dashcam does not emit a continuous beep on vehicle startup. If it does, confirm SD card is installed.
☐ Power LEDs light up.	
☐ Remove Blue Film on Dashcam Lens	Blue Lens Protector Film should be removed and discarded.
☐ Verify that Dashcam Pamphlet is placed in glovebox.	
Vehicle Function Checks	
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal	Confirm standard lighting functions work properly.
☐ Roof Console functions – map lights, sunroof / panoramic roof controls if equipped.	Confirm roof console functions work properly.
☐ EC Mirror – Confirm power and dimming.	Confirm EC Mirror power status LED visible, cover the transparent lens on the reverse side with your hand, the mirror glass should fade darker after a few seconds.
☐ Mirror – View Angle	Confirm mirror is adjusted correctly for visibility for the average driver.
Vehicle Appearance Check	
☐ After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality Shipping Standard.)
☐ All Templates and Tools removed from the vehicle.	Confirm Windshield Template and all tools have been removed from the vehicle.

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Part Number: PT949-34222 (Dashcam) Legacy Part Numbers: PT949-34221 (Dashcam)

Dashcam Kit Contents

Item #	Quantity Reqd.	Description
1	1	Dashcam Main Unit
2	1	SD Card Holder
3	1	SD Card (16 GB)
4	1	Window Mounting Plate
5	1	Foam Tape
6	2	Cable Ties
7	1	Quick Start Guide

Additional Items Required for Installation

Item #	Quantity Reqd.	Description
1	1	PT949-34222 (Dashcam Unit)
2		

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Temperature Gauge	
Special Tools	**Notes**
4Ru25-001 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0V** is also valid and can be used.
Installation Tools	**Notes**
Panel Tool	
Socket Wrench	With a 10 mm Socket
Torque Wrench	With a 10 mm Socket
Hooked Panel Tool	
Needle Nose Pliers	For Sun Visor Clip Removal
Cutters	
Special Chemicals	**Notes**
VDC Approved Cleaner	To Clean Windshield

General Applicability

MY25 + 4Runner/4Runner HV

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-34222)
2	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1		
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-34220-AA	Camera Unit + SD
2	PT949-60220-AB	SD Card 16GB Industrial
3	PT949-60220-AC	SD Card Holder Assembly
4	PT949-08210-AD	Window Plate with Tape

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.

REGULATORY MARK: This mark indicates the component is related to regulatory compliance.

Table Of Contents

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

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

This document covers such items as: -

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

Please see your Toyota dealer for a copy of this document.

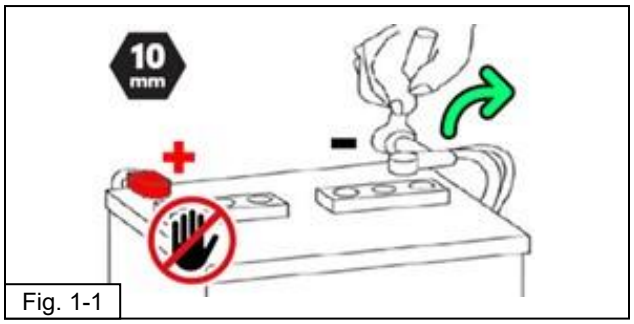
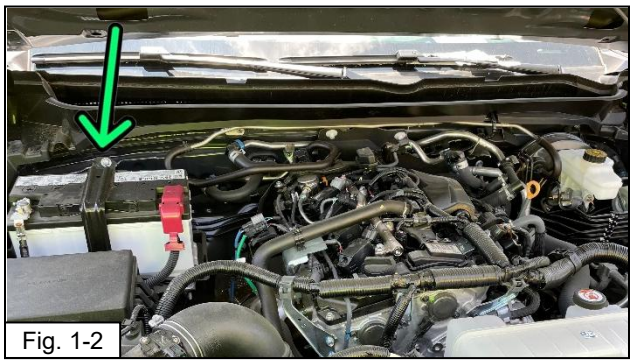
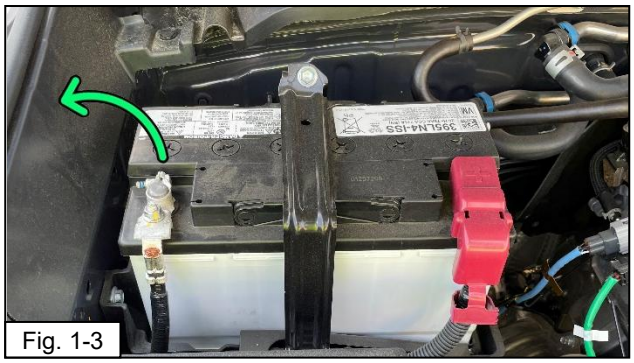


Fig. 1-1


Fig. 1-2


Fig. 1-3

1. Disconnect Battery

(a) Protect the fender/bumper before starting.

(b) The engine components and coolant may be hot.

CAUTION: Do not touch the positive terminal with any tool during battery disconnection.

NOTE: Reinstall the DCC Cut Fuse (Short Pin) if applicable. (Validate location by following the fuse box diagram on the reverse side of the relay cover).

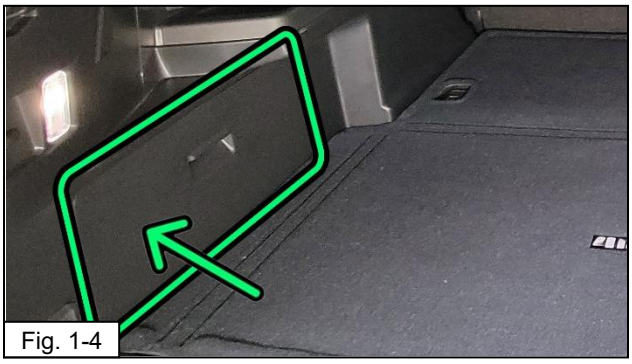
Battery Disconnection – Non-Hybrid:

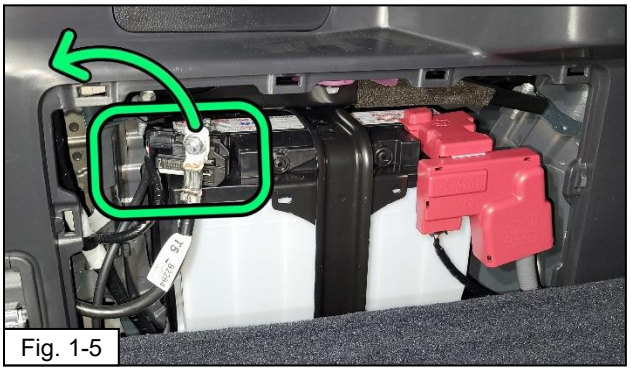
(c) The 12V Battery in the Non-Hybrid Toyota 4Runner should be disconnected by loosening the 10mm nut on the negative terminal. It is not necessary to fully remove this nut (Fig. 1-1, Fig. 1-3)

(d) The battery in the regular Toyota 4Runner is in the engine compartment on the passenger side. (Fig. 1-2)

(e) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

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Fig. 1-4


Fig. 1-5

Battery Disconnection – Hybrid:

(f) The 12V Battery in the hybrid-powered Toyota 4Runner is located in the trunk compartment on the driver side.

(g) Locate the battery cover panel and remove the panel to access the battery. (Fig 1-4).

(h) The 12V Battery in the Hybrid Toyota 4Runner should be disconnected by loosening the 10mm nut on the negative terminal. It is not necessary to fully remove this nut. (Fig 1-5)

(i) Keep the Negative Cable away from the battery terminal to avoid accidentally reconnecting the 12V power if the cable falls back to its natural shape.

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Fig. 2-1

2. Kit Preparation

(a) Check the Dashcam Kits for missing content or damage.

(b) Confirm Camera Angle Position – **2 visible recessed lines** should be seen below the lens with the camera held in the as-installed orientation. (Fig. 2-1, Note: Camera is up side down in the image)

3. Vehicle Protection

(a) Apply Vehicle Protection to driver and passenger's seat, steering wheel, dashboard, and center console. (Fig. 3-1, 3-2)


Fig. 3-1


Fig. 3-2

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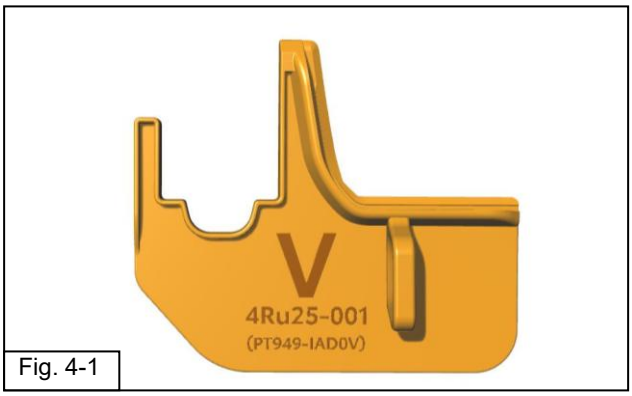


Fig. 4-1

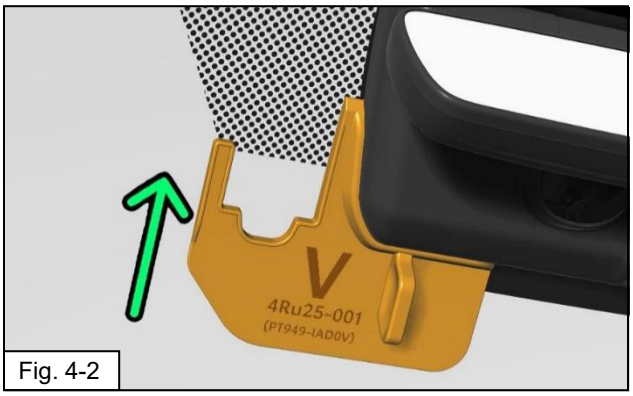


Fig. 4-2

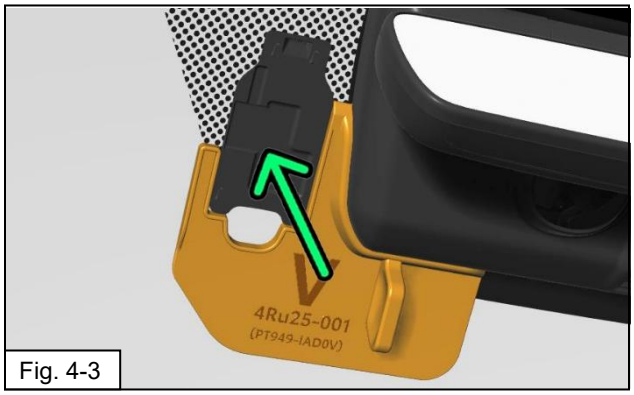


Fig. 4-3

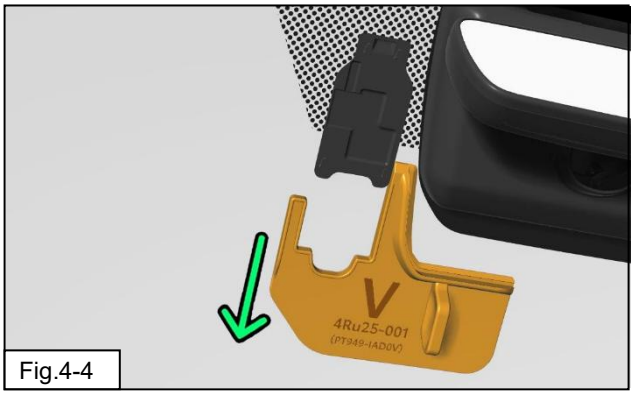


Fig.4-4

4. Install Windshield Base Plate

STOP: The front windshield must be at least 50°F (10°C).

(a) On the driver's side of the vehicle, using window cleaner and lint free cloth, clean the windshield area next to the TSS cover.

(b) For PPO Installations, please use 3D hard template "**V**" with the part number **"4Ru25-001"** *(Legacy: **PT949-IAD0V**)* (Fig. 4-1) and follow steps (d) through (f).

(c) For Dealer Installations or in the case that the 3D hard template is unavailable**,** please follow steps (g) through (i)

(d) Insert the 3D Template (**4Ru25-001**) between the TSS cover and the windshield glass, it should fit snugly against the TSS cover side walls, and the features of the template should allow it to stay in place hands free. If not, apply a small bit of tape to support the lower edge. *(Fig. 4-2)*

(e) Remove the adhesive and stick the mounting plate on the windshield while aligning to the lower and right-side edges of the mounting plate. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-3)

(f) Remove the 3D hard template by gently pulling towards the base of the windshield (wiper cowl area) to slide it out from under the TSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

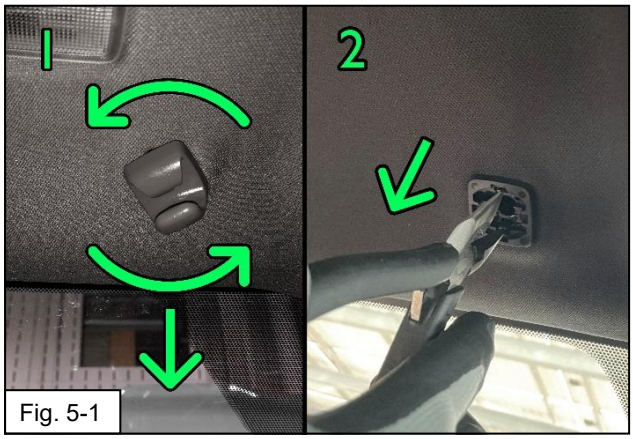


Fig. 5-1

For Dealer Installations / No 3D Hard Template Available:

(g) Using scissors, cut the paper template as indicated. For PPO Installations, please use the 3D hard template provided.

(h) Referencing the TSS cover, align to the indicated line and affix the template to the windshield using tape. (Fig. 4-5)

(i) Remove the adhesive and stick mounting plate on windshield paying attention to the reference lines on template. Press firmly to reduce visible air pockets. Note that the narrow end of the plate is towards the top of the windshield. (Fig. 4-6)

(j) Once the base plate is fitted, remove template in the direction towards the lower edge of the windshield and clean any tape residue from the glass.

All Installation types continue from here onwards.

5. Remove Visor Mount Clips and Base

(a) Remove the Sun Visor Hooks on BOTH Driver and Passenger side of the Map Light Console, to allow for gentle pulling down of the headliner without damage.

Note: Both sides remove in the same direction, Passenger side is not mirrored.

(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1 L)

(2) After removing the hook component, release the two tabs and pull out the base, needle nose pliers recommended. (Fig. 5-1 R)

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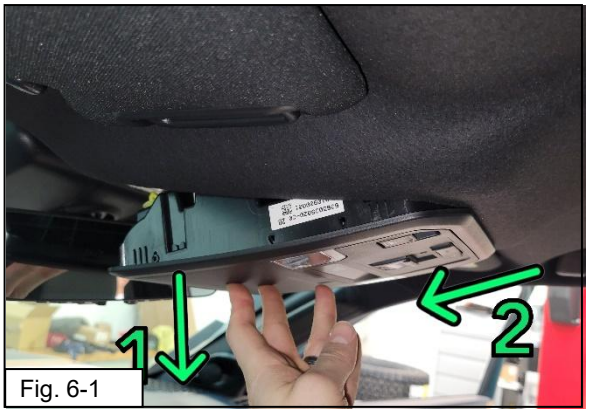


Fig. 6-1

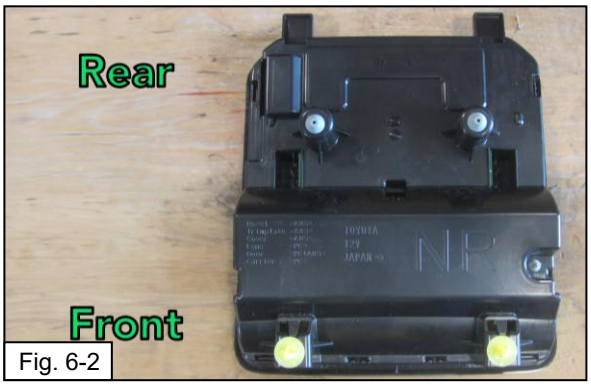
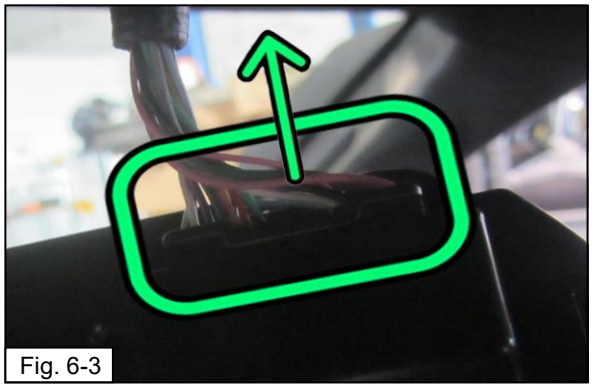


Fig. 6-2


Fig. 6-3

6. Remove Roof Map Light Console

(a) (1) Pull down firmly to release the front 2 clips first, now rotate the console away from the headliner, (2) and slide it out towards the front of the vehicle (towards the windscreen). (Fig. 6-1)

(1) A plastic panel removal tool may be used to pull down the console.

(2) CAUTION: Do **not** pry against the headliner or it will leave visible damage.

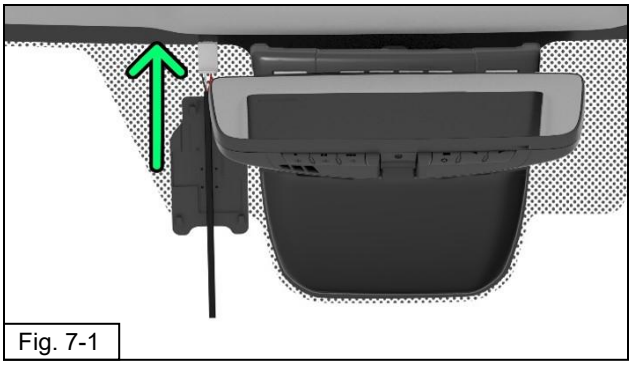
(3) Note the appearance of the clips in the image to better understand the removal process. (Fig. 6-2)

(b) Inspect the console clips and replace them if damaged.

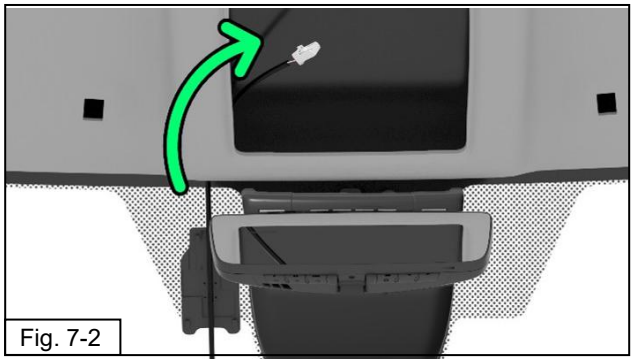
(c) Once fully detached, disconnect the wire harness from the roof console and place the console in a safe place to avoid damage. (Fig. 6-3)

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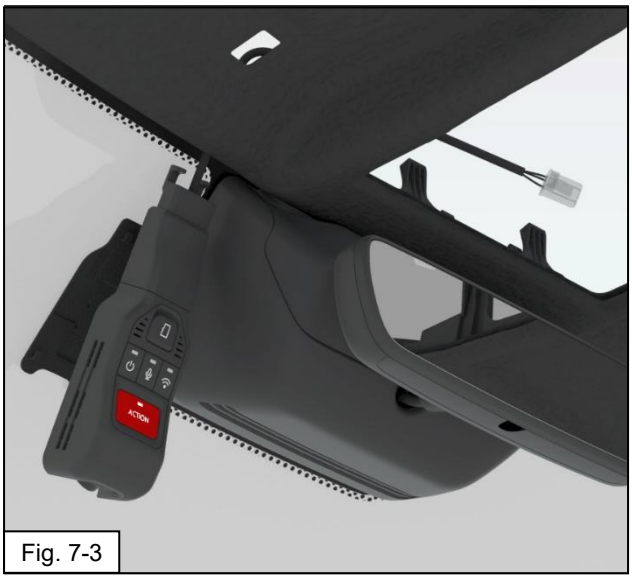
7. Route Dashcam Harness through the Headliner


Fig. 7-1

(a) From the Driver's side of the vehicle, feed the Dashcam's pigtail harness up into the headliner, directly above the Dashcam mounting plate fixed to the windshield. Take care not to crease the headliner in the process. (Fig. 7-1)


Fig. 7-2

(b) Route the Dashcam pigtail through the headliner to the map light console area. (Fig. 7-2)


Fig. 7-3

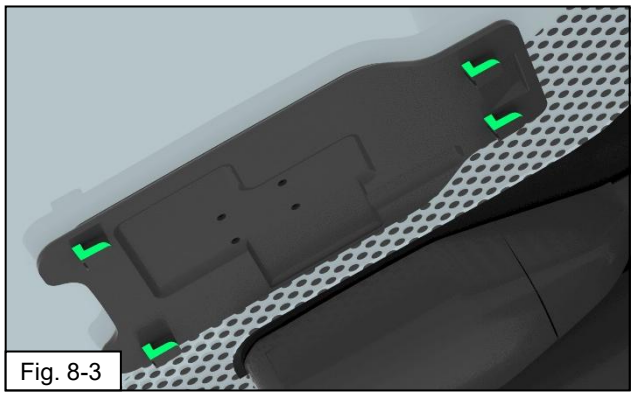
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 7-3)

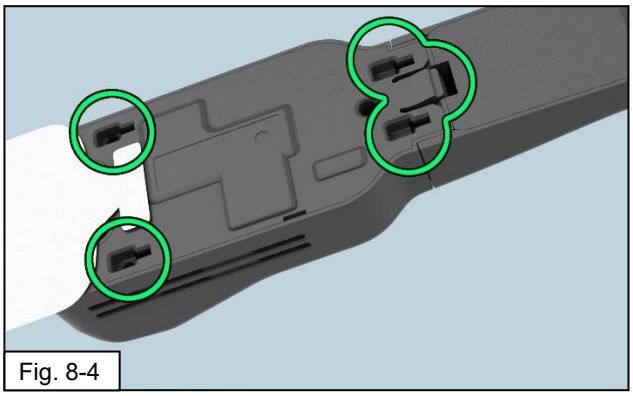
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Fig. 8-1


Fig. 8-2


Fig. 8-3


Fig. 8-4

8. Fitting the Dashcam to Base Plate

NOTE: The Hang Tag that is attached to the Dashcam is **only to be removed by the end user.** As the camera turns on with ignition, the hang tag is intended to block recording while the vehicle is being processed through areas which may be confidential / contain unreleased vehicles.

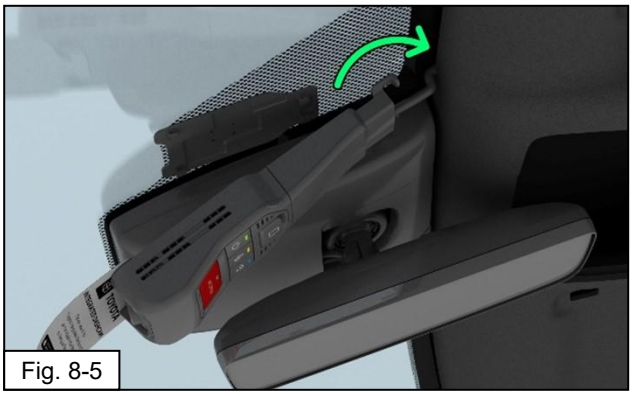
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 8-1)

(a) **IMPORTANT: Remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 8-2)

NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 8-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 8-4)

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Fig. 8-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 8-5)

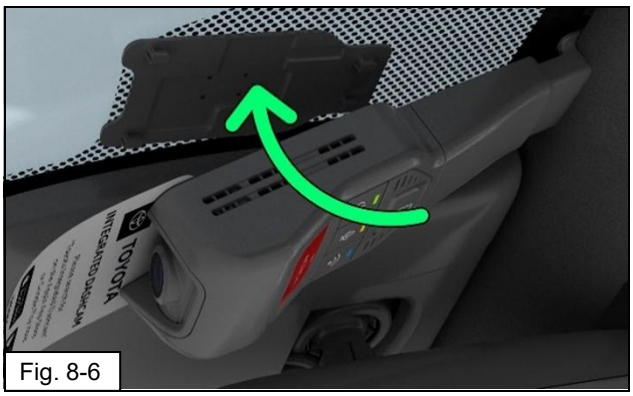


Fig. 8-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 8-6)

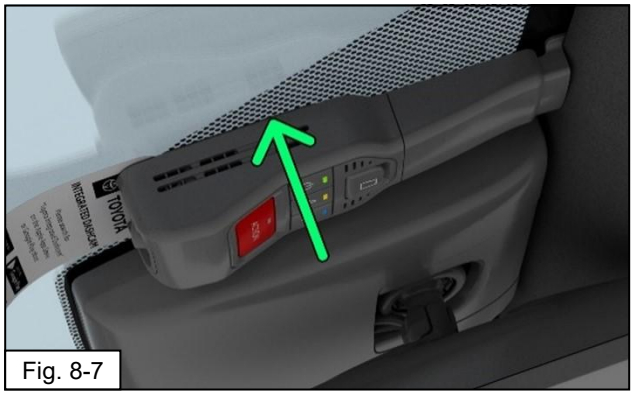


Fig. 8-7

(e) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 8-7)

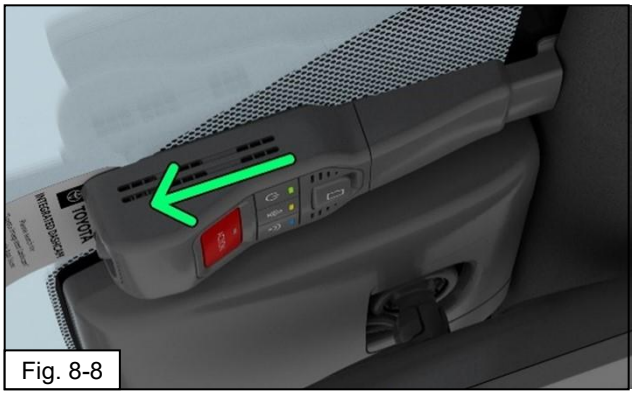
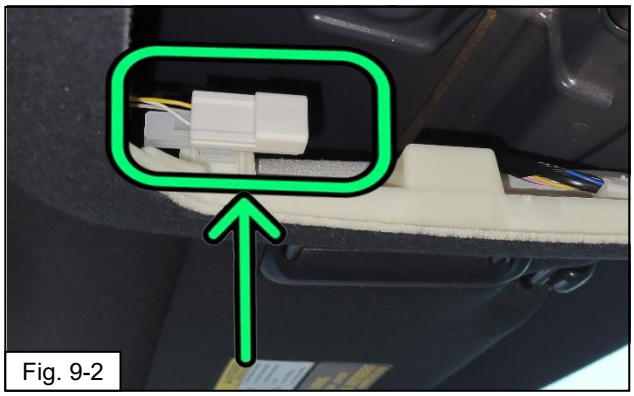


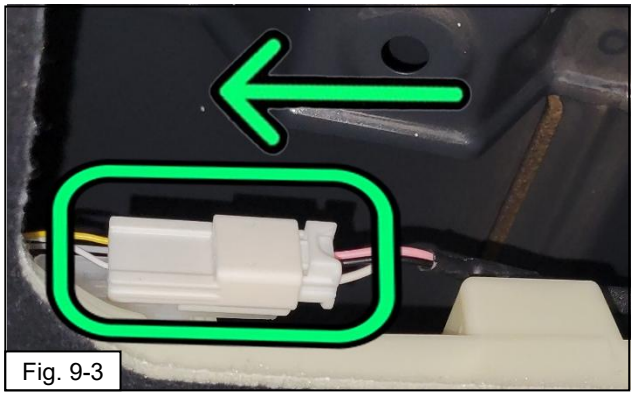
Fig. 8-8

(f) Slide the Dashcam down towards the to the T-hooks and engage the clip that secures it. Adjust the telescopic wire harness cover as required to sit correctly, and confirm the hooks are tucked inside the leading edge of the headliner. (Fig. 8-8)

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Fig. 9-1


Fig. 9-2


Fig. 9-3

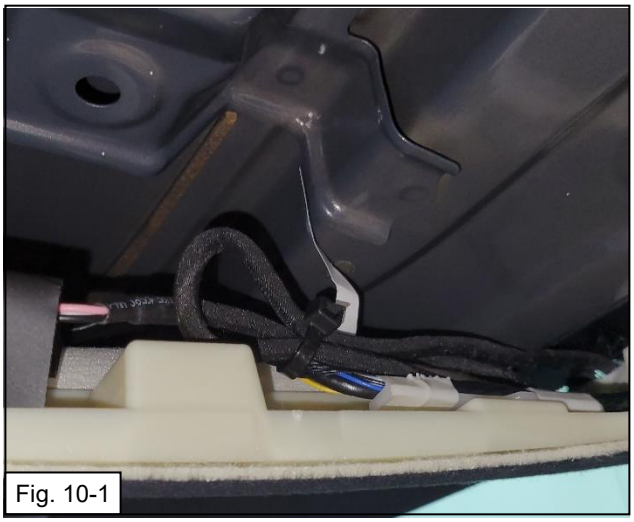
9. Connect the Power Harness

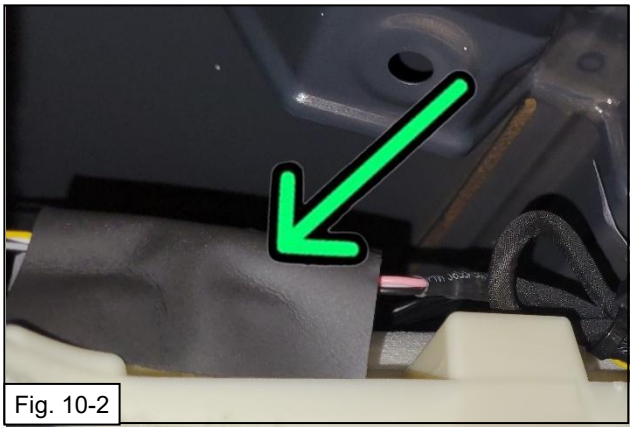
(a) Locate the Dashcam Pre-wire harness connector secured to the headliner on the Driver' side of the Map Light Console opening. It is the white 5 pin connector that will appear to be unused. (Fig. 9-1, Fig. 9-2)

(b) Connect the Dashcam Pigtail harness to this pre-wire connector, ensuring there are no obstructions preventing bundling of the harness. (Fig.9-3)

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10. Route / Bundle Wire Harness


Fig. 10-1


Fig. 10-2

(a) Confirm that the Dashcam Pigtail Harness is securely fitted to the pre-wire connector. Ensure that the Pre-wire connector is still securely mounted in its original location on the headliner plastic frame. (Fig. 10-1)

(b) Secure the Dashcam pigtail harnesses against the side of the map light opening. Loop and bundle them as required. Arrange this in a way that does not obstruct the console from being reinstalled. Tighten the zip tie and snip off the excess, and then **orient the zip tie to have the block in the upright position to prevent noises from contact with the overhead console.** (Fig. 10-1)

(c) After connecting, wrap the connector with the supplied foam tape. (Fig. 10-2)

(d) **Note: Take care not to cause bulging in the headliner. Some adjustments to the bundle may be required to avoid bulging the headliner.**

(e) Note: Do not block access to the clip holes in the body structure or the roof console may not fit properly.

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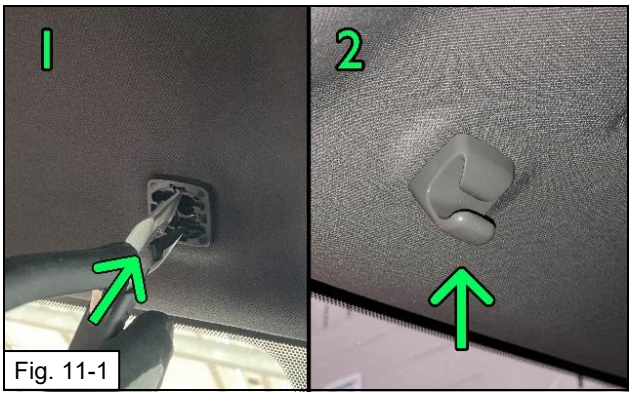
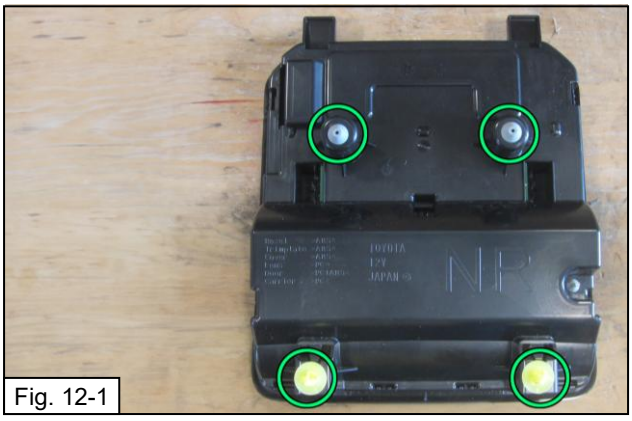


Fig. 11-1

11. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 11-1 L)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 11-1 R)


Fig. 12-1

12. Reinstall Overhead Console

(a) Re-connect the harness for the roof map light console, test map lights, and sunroof control if equipped.

(b) Check all console clips are in good condition and are present on the console. If any are still installed in the roof of the vehicle and have separated from the console, a panel tool with a forked end can be used to pry them out, and then reinstall in the console. (Fig. 12-1)

(c) Reinstall the console by carefully aligning the clips towards the rear of the opening and observe the marks in the headliner for alignment references. Carefully push it in place, to lock. Take care not to apply pressure to the lens covers. Check all corners for gaps. If needed, reposition the harnesses and try again. (Fig. 12-2)

(d) Note: Be careful aligning the clips to holes to avoid damage.



Fig. 12-2

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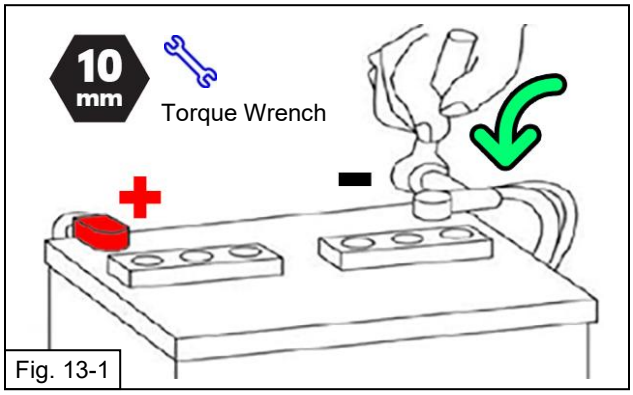


Fig. 13-1

13. Reconnect Vehicle Battery

(a) Reconnect the Negative Battery Cable.

(b) If the vehicle is the Hybrid variant, reinstall the 2 clips fixing the seat to the battery storage compartment.

(c) Torque to 5.4 N•m (48 in•lbsf)

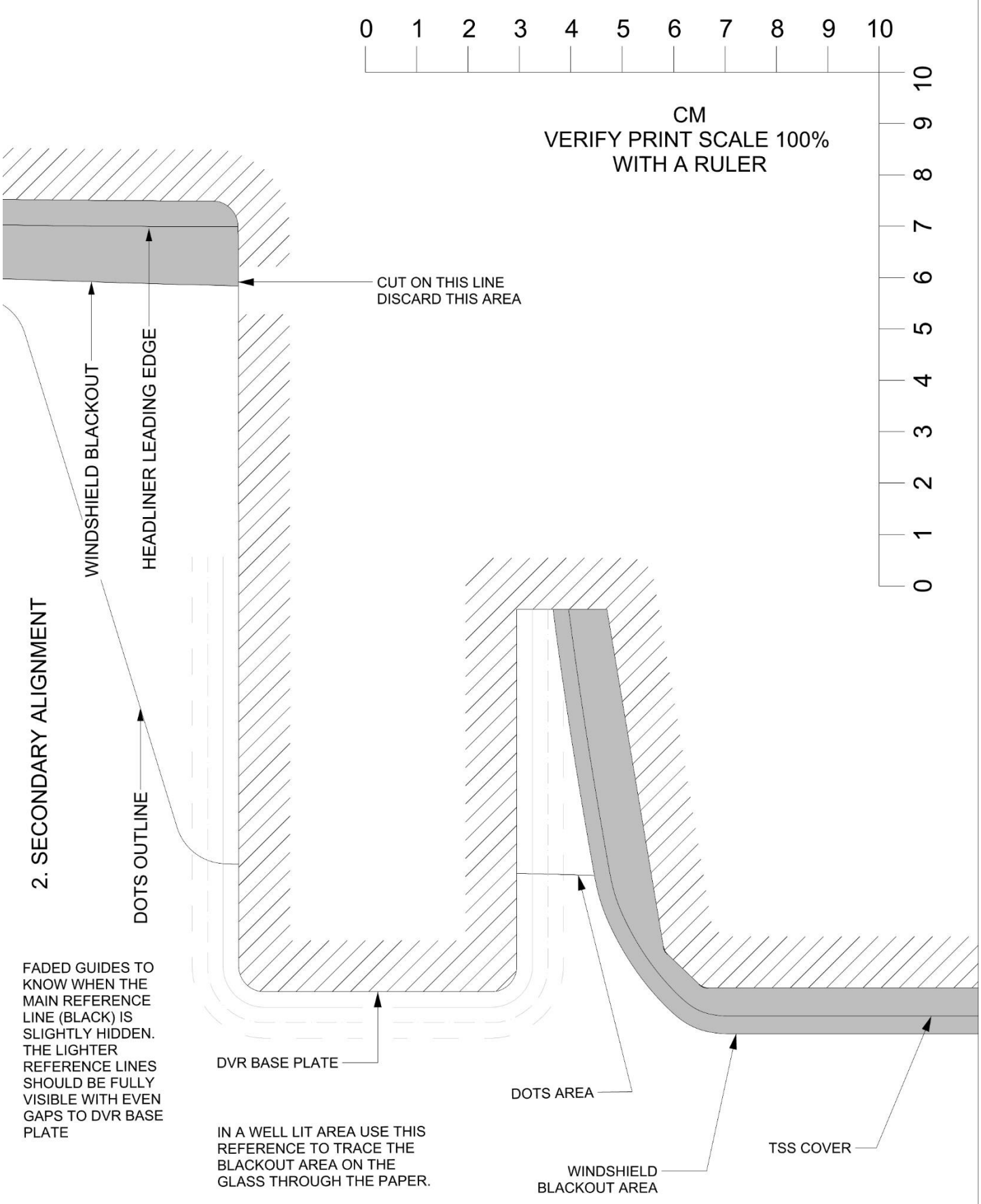
(d) **CAUTION:** Do not touch the positive terminal with any tool.

14. NOTE: Remove DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

15. Owner's Manual

Place the Owner's Manual ("**Quick Start Guide**") in the glove box with the other vehicle owner's manuals.

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TOYOTA INTEGRATED DASHCAM
2025+ 4RUNNER LHS TEMPLATE

1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

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TOYOTA 4RUNNER 2025- DASHCAM (Digital Video Recorder)

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

Check:	Look For:
Accessory Function Checks	
☐ Verify parts.	Removed items have been discarded & replaced items are in place.
☐ Vehicle Startup	Confirm Dashcam does not emit a continuous beep on vehicle startup. If it does, confirm SD card is installed.
☐ Power LEDs light up.	
☐ Remove Blue Film on Dashcam Lens	Blue Lens Protector Film should be removed and discarded.
☐ Verify that Dashcam Pamphlet is placed in glovebox.	
Vehicle Function Checks	
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal	Confirm standard lighting functions work properly.
☐ Roof Console functions – map lights, sunroof / panoramic roof controls if equipped.	Confirm roof console functions work properly.
☐ EC Mirror – Confirm power and dimming.	Confirm EC Mirror power status LED visible, cover the transparent lens on the reverse side with your hand, the mirror glass should fade darker after a few seconds.
☐ Mirror – View Angle	Confirm mirror is adjusted correctly for visibility for the average driver.
Vehicle Appearance Check	
☐ After accessory installation and removal of protective cover(s), perform a visual inspection.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMNA Accessory Quality Shipping Standard.)
☐ All Templates and Tools removed from the vehicle.	Confirm Windshield Template and all tools have been removed from the vehicle.

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