LEXUS

Lexus Dashcam Installation Booklet

Dashcam PT949-76221
Legacy dashcam PT949-76220

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Part Number: **PT949-76221 (Dashcam)**
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
ES 23-0018 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0Q** 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

All Models with EC mirror

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	Y-Harness (PT949-48210)

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 2 pcs	Roof Console **YELLOW** Clips if damage occurs during removal. P/N: 90467-09245
2	Up to 2 pcs	Roof Console **BLUE** Clips if damage occurs during removal. P/N: 90467-10167
3	Up to 4 pcs	Roof Console **RED** Clips if damage occurs during removal. P/N: 90467-09240
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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.

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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 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 Lexus dealer for a copy of this document.


Fig. 1-1


Fig. 1-2


Fig. 1-3

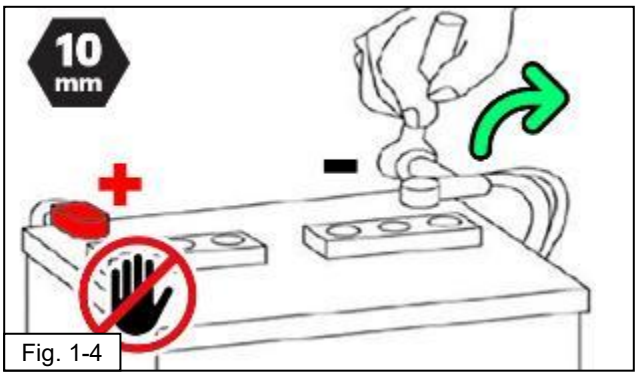


Fig. 1-4

1. Disconnect Battery

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).

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

(b) The 12V Battery in the Gas powered Lexus ES is located in the engine bay. (Fig. 1-1)

(c) The 12V Battery in the Hybrid powered Lexus ES is located on the right side of the trunk, under the hinged flap in the load floor. Simply lift the flap and fold it inboard to find the battery underneath it. Place a heavy object on the flap to keep it open (Fig. 1-2)

(d) Disconnect the Negative Cable by loosening the 10 mm nut that clamps the connector to the battery post, shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-3)

(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. If necessary, use something non-conductive to keep the cable away from the battery post. (Fig. 1-4).

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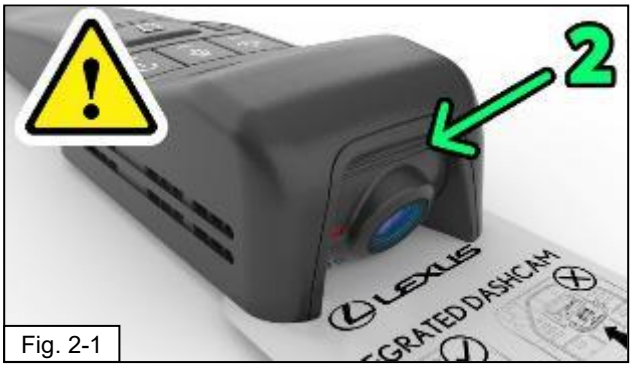


Fig. 2-1

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)

(c) If this is not correct, please see adjustment instructions available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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Fig. 4-1

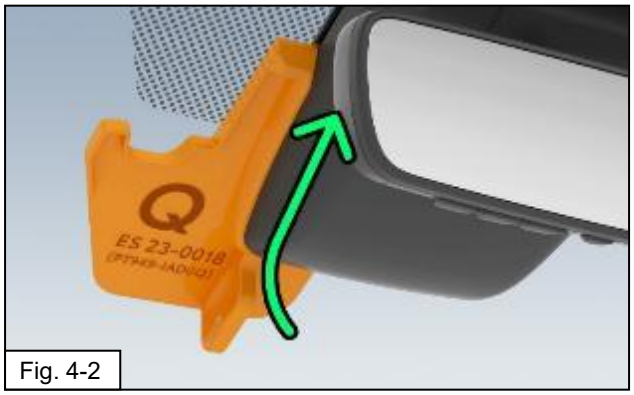


Fig. 4-2

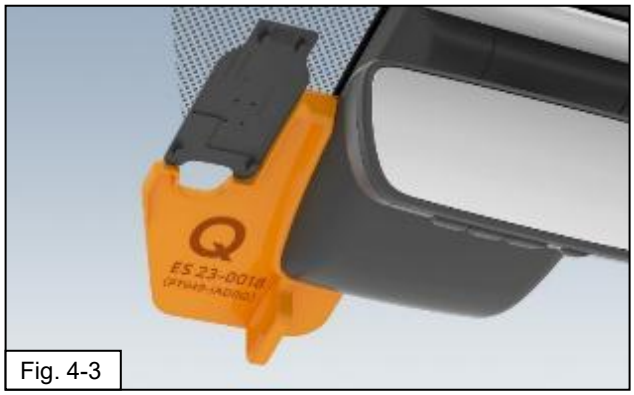


Fig. 4-3

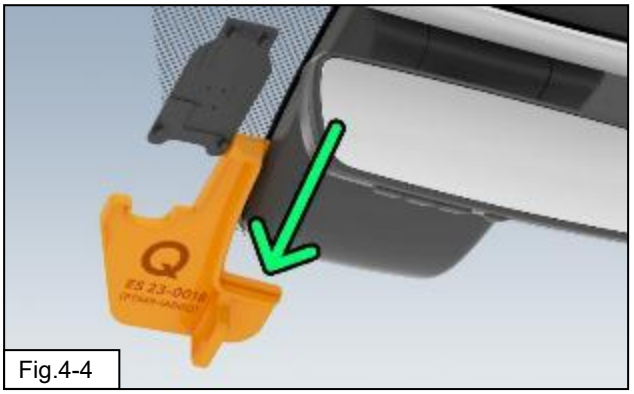


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use the 3D hard template "**Q**" with the part number **"ES 23-0018"** *(Legacy: **PT949-IAD0Q**)* (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 (**ES 23-0018**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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 LSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

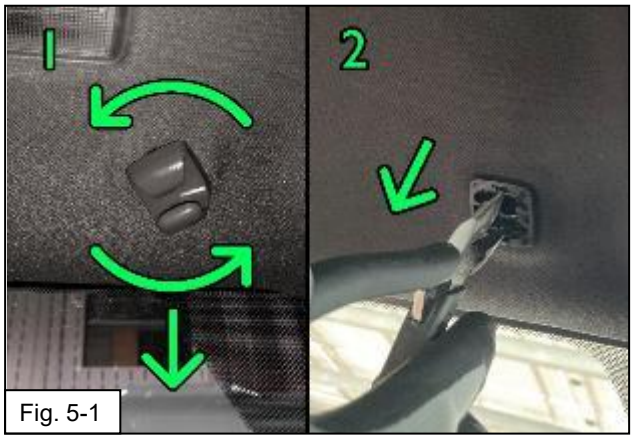


Fig. 5-1

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 LSS 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.

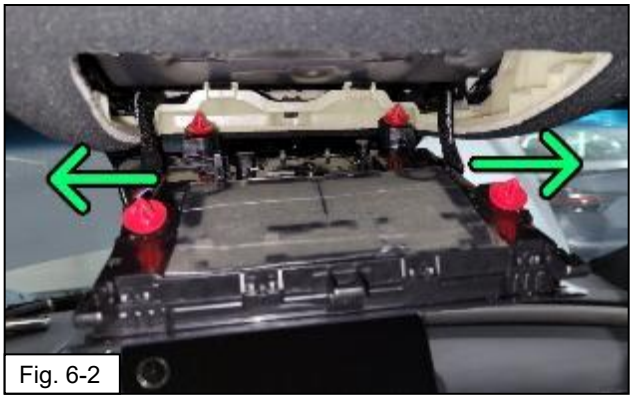
(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1)

(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

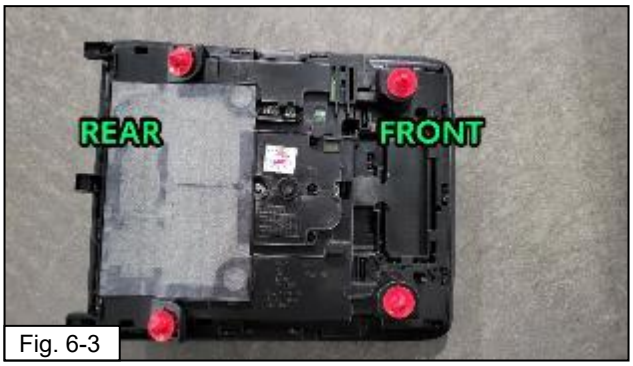


Fig. 6-3

6. Remove Roof Map Light Console

(a) Adjust the mirror position so it will not be damaged by the console removal.

(b) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 6-1)

(c) Disconnect the Wire Harnesses on both sides of the map light console. (Fig. 6-2)

NOTE: Do NOT start from the rear clips.

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

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

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

(d) Once fully detached, place the console in a safe place to avoid damage.

(e) Inspect the console clips and replace if damaged. The part numbers may vary depending on the vehicle so refer to the below table based on the clip's color.

Yellow	**90467-09245**
Blue	**90467-10167**
Red	**90467-90240**

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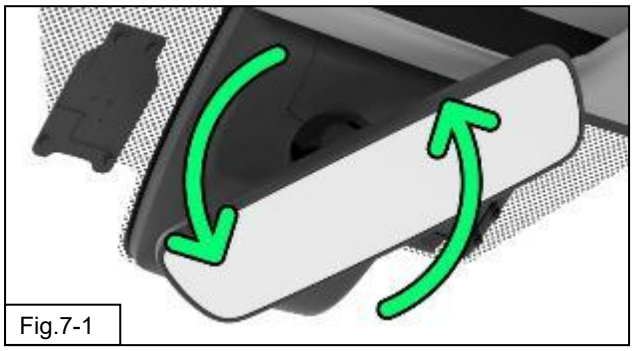

Fig.7-1



Fig. 7-2

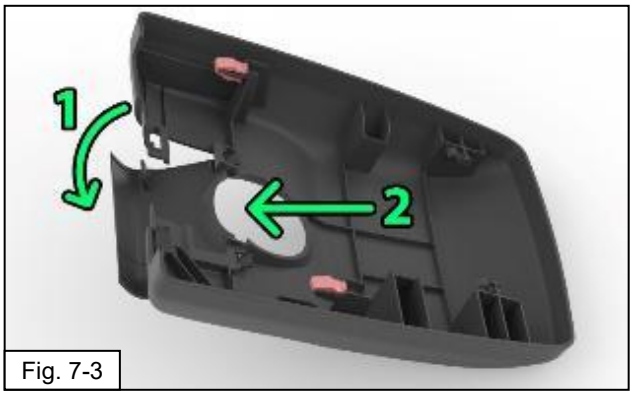
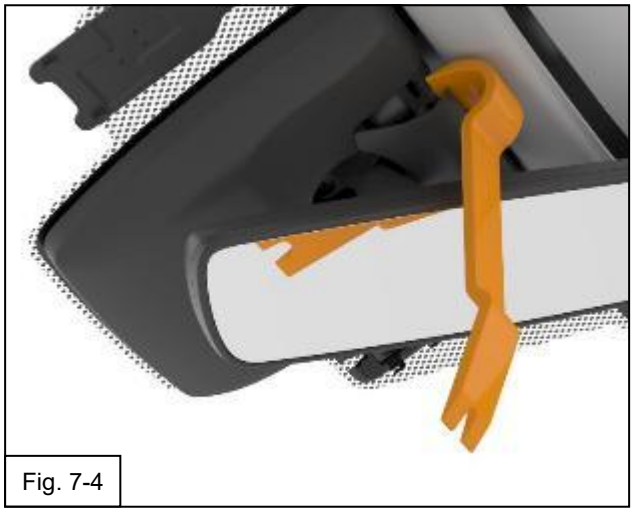


Fig. 7-3


Fig. 7-4

7. Remove the LSS Cover

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

(b) Holding the LSS 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 LSS cover. Take care not to scratch the headliner in the process.

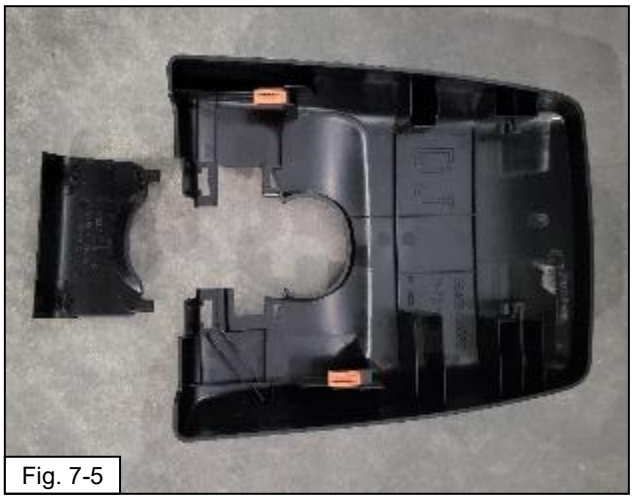
(1) Pull down on the upper rearward edge of the cover plate (closest to the headliner) to disengage the clips. (Fig. 7-3), (Fig. 7-4)

(2) Alternatively, with the right shaped trim panel tool you may be able to pry the smaller cover off first. (Fig. 7-4)

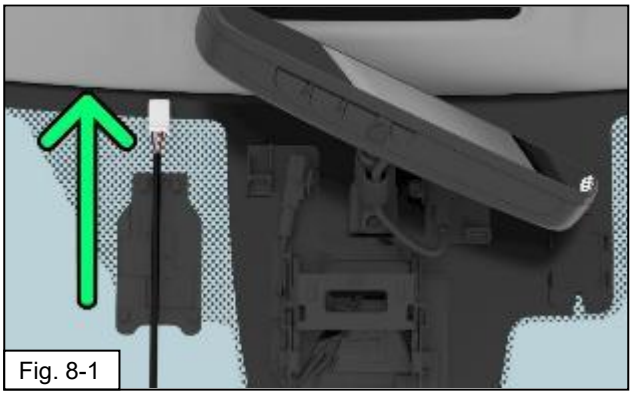
(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks. (Fig. 7-3)

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

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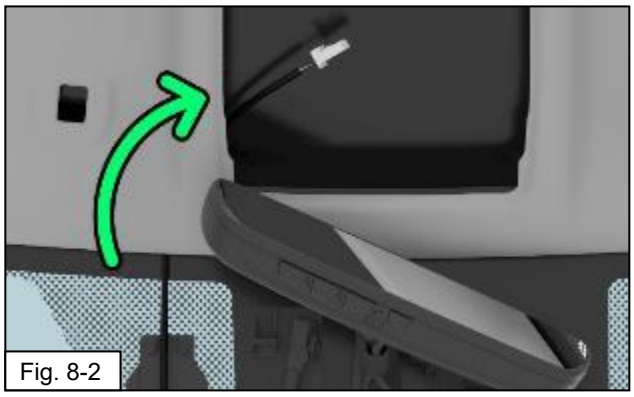

Fig. 7-5

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


Fig. 8-1

8. 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. 8-1)


Fig. 8-2

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 8-2)


Fig. 8-3

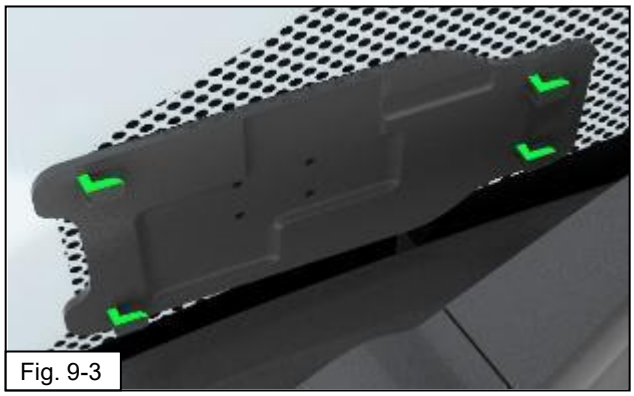
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 8-3)

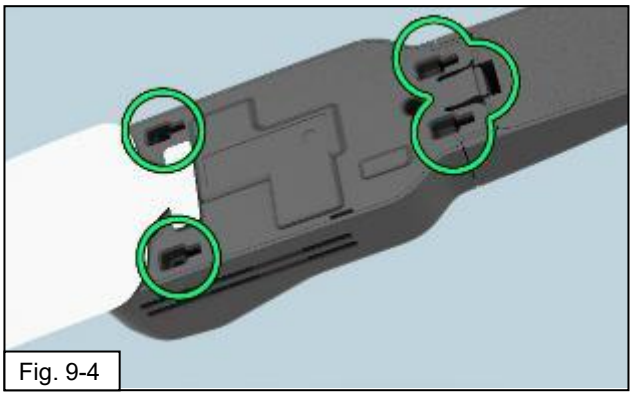
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Fig. 9-1


Fig. 9-2


Fig. 9-3


Fig. 9-4

9. 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.

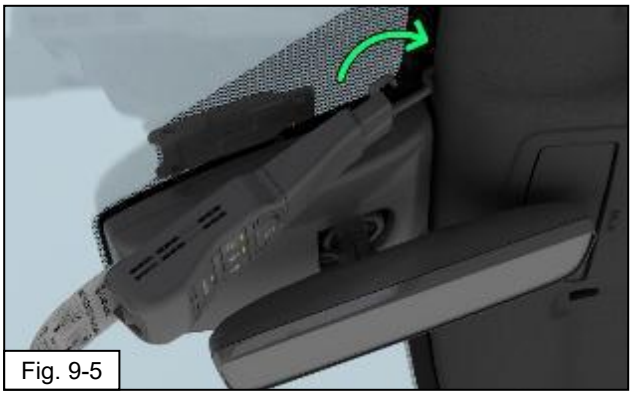
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 9-1)

(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. 9-2)

NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 9-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 9-4)

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Fig. 9-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 9-5)


Fig. 9-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 9-6)

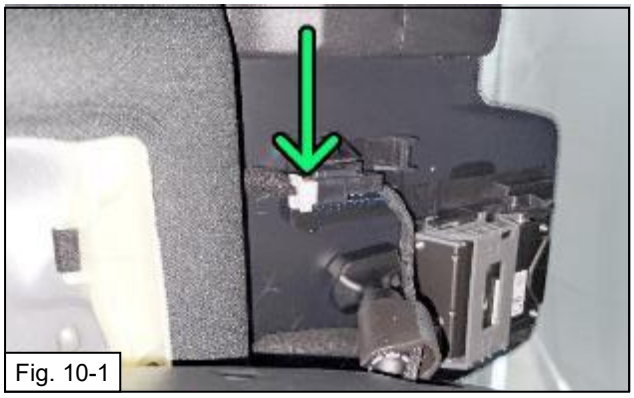

Fig. 9-7

(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. 9-7)


Fig. 9-8

(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. 9-8)

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Fig. 10-1

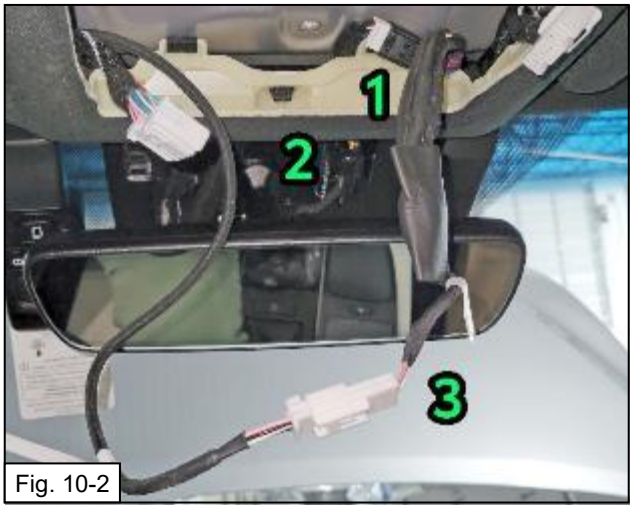


Fig. 10-2


Fig. 11-1

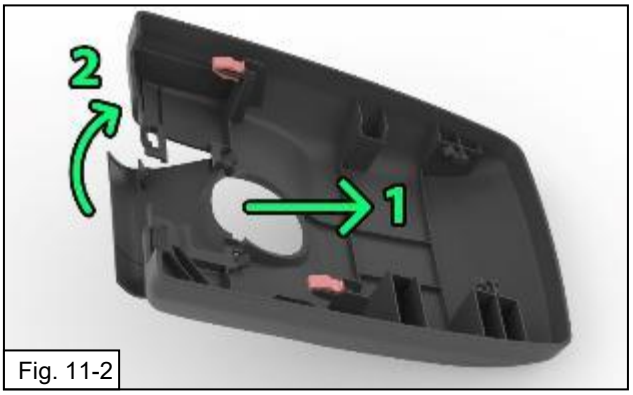


Fig. 11-2

10. Install the Y-Harness

(a) Locate the power mirror harness connector above the mirror to the passenger side. It is the white10 pin connector, close to the mirror mount and secured against the glass. Unplug the connector. (Fig. 10-1)

(b) Connect the Y-Harness mating female connector **(1)** to the vehicle side harness that was unplugged above (Fig.10-2)

(c) Insert the male connector **(2)** into the original position on the mirror assembly (Fig. 10-2).

(d) Route Dash Cam connector **(3)** of the Y-Harness above the plastic frame into the map light console space and connect the Harness to the Dash Cam pig tail. (Fig. 10-2).

11. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 11-1)

(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 11-2 – shown off the vehicle for picture clarity)

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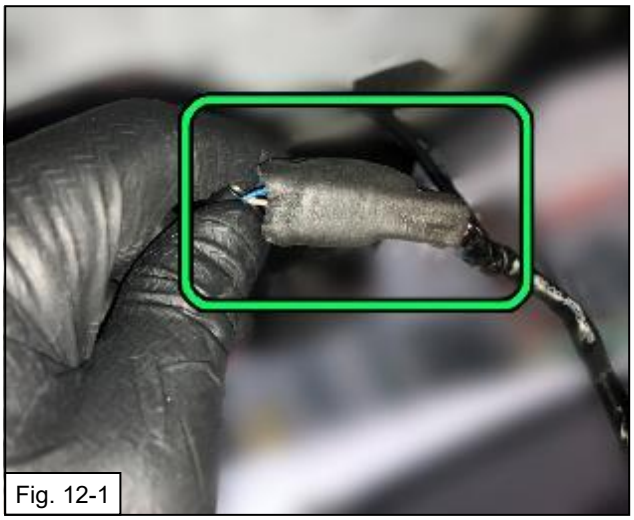

Fig. 12-1


Fig. 12-2


Fig. 12-3

12. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the connectors of the Y-Harness to Vehicle and Dash Cam to Harness have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 12-1)

(b) Route the Y-harness above the plastic frame at the front of the headliner towards the driver's side. (Fig 12-1, 12-2)

(c) Secure the Dashcam harnesses and Fuse Holders against the existing harnesses 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. 12-2)

(d) 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. 12-3)

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

(f) **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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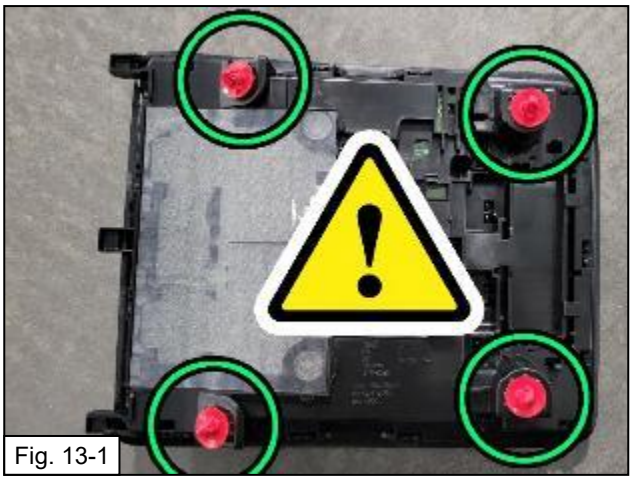

Fig. 13-1



Fig. 13-2

13. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 13-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 13-2)

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

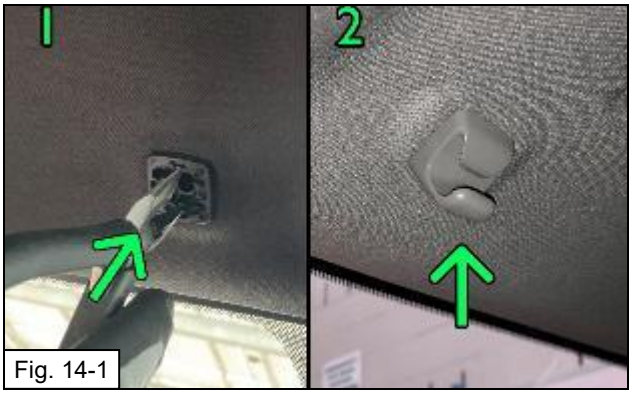


Fig. 14-1

14. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 14-1)

(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. 14-1)

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

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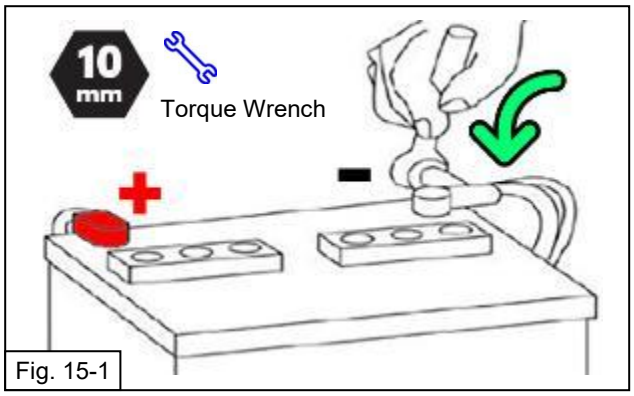


Fig. 15-1


Fig. 16-1

15. 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.

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

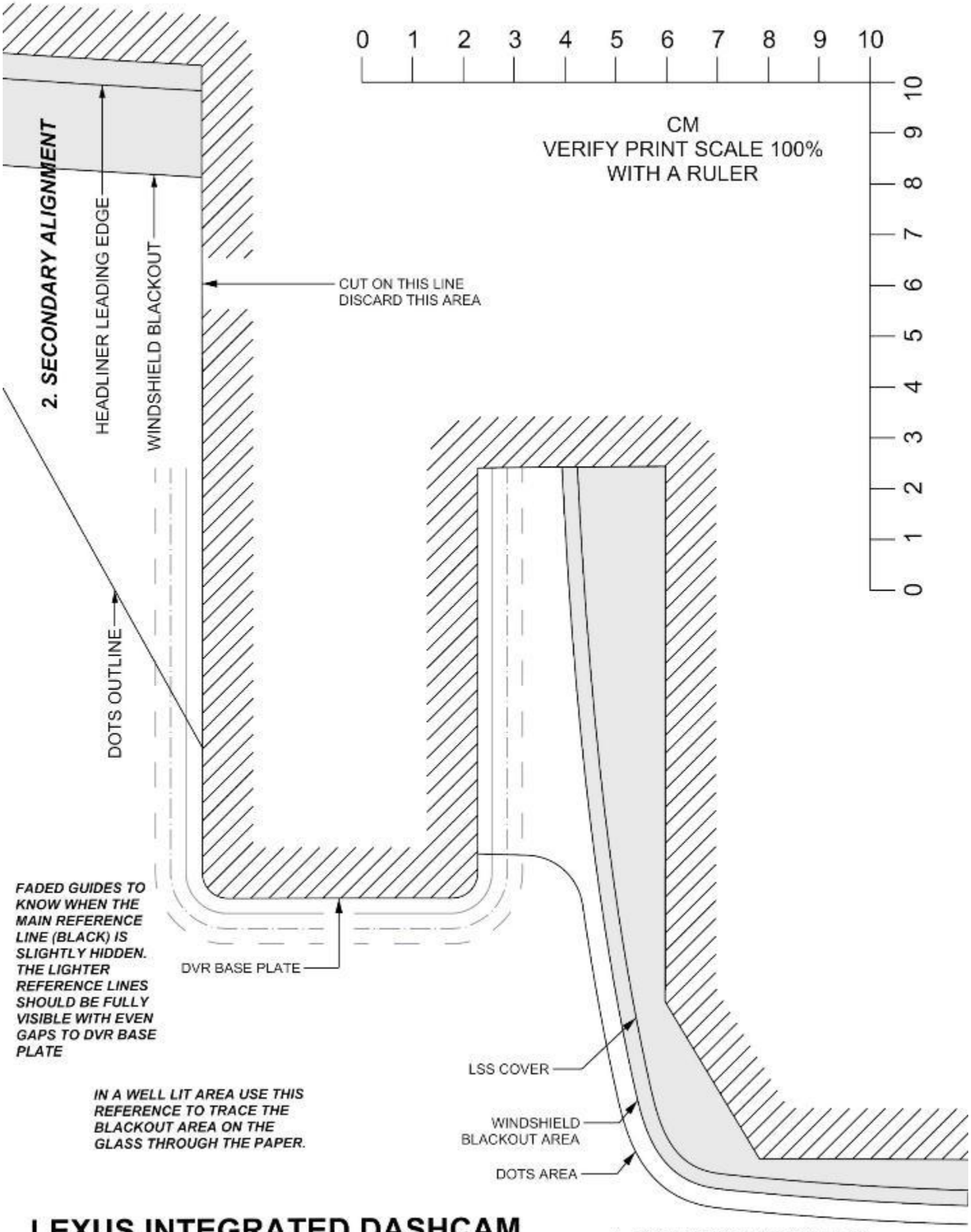
16. Replace Battery Cover Trim

If working on the Hybrid, re-fit the battery cover and floor liner (if equipped) back to their original position.
(Fig 16-1)

17. 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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LEXUS INTEGRATED DASHCAM
2022+ ES LHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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: PT949-76221 (Dashcam) Legacy Part Numbers: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2		

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Temperature Gauge	
Special Tools	**Notes**
GX24-0010 Install Aid **Note: RHS VERSION**	**For Port Installations Only** **Check for RHS version, order new one if required.** The legacy part number **PT949-IAD0X** 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

All Models

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 2 pcs	Roof Console **YELLOW** Clips if damage occurs during removal. P/N: 90467-09245
2	Up to 2 pcs	Roof Console **BLUE** Clips if damage occurs during removal. P/N: 90467-10167
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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.

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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 quality installation.

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

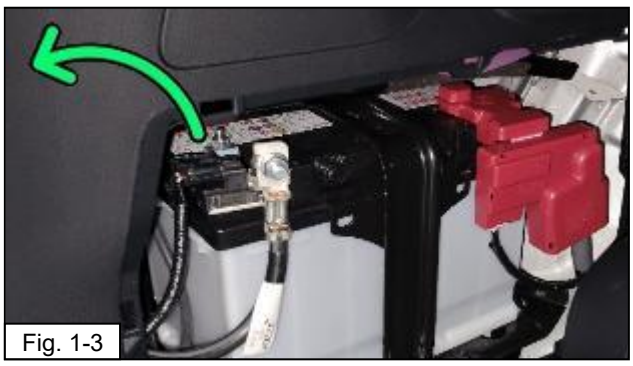
This document covers such items as: -

- 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 Lexus dealer for a copy of this document.


Fig. 1-1


Fig. 1-2


Fig. 1-3

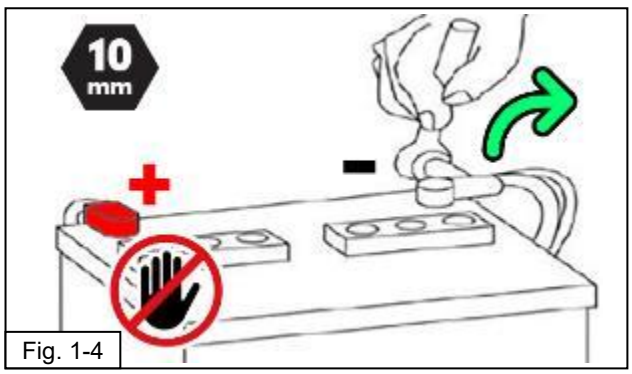


Fig. 1-4

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 Lexus GX 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 Lexus GX 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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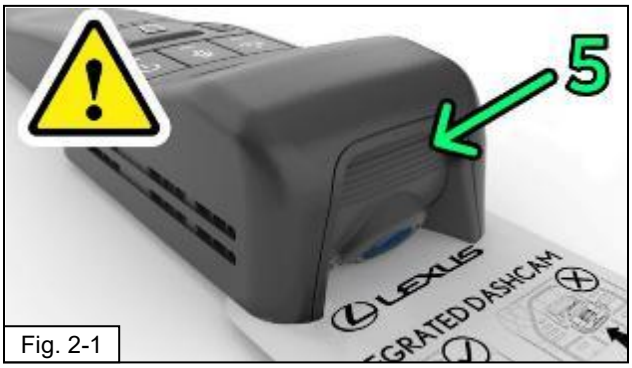


Fig. 2-1

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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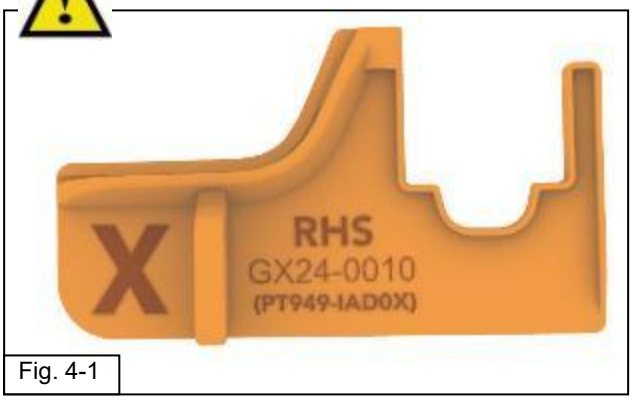


Fig. 4-1

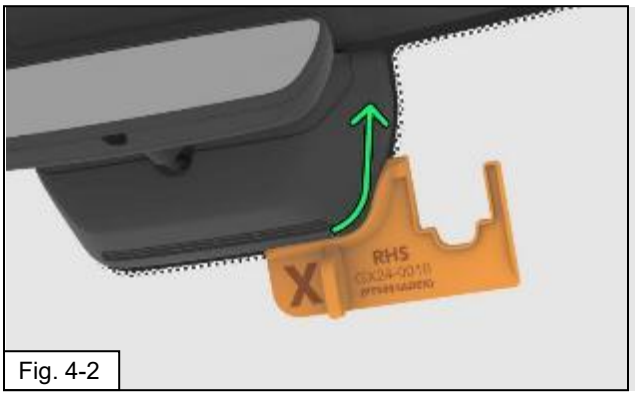


Fig. 4-2

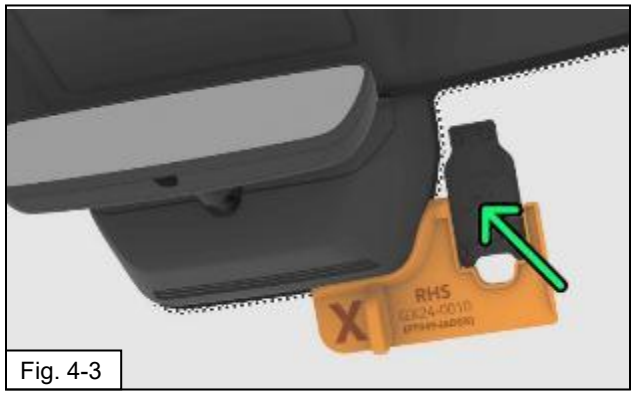


Fig. 4-3

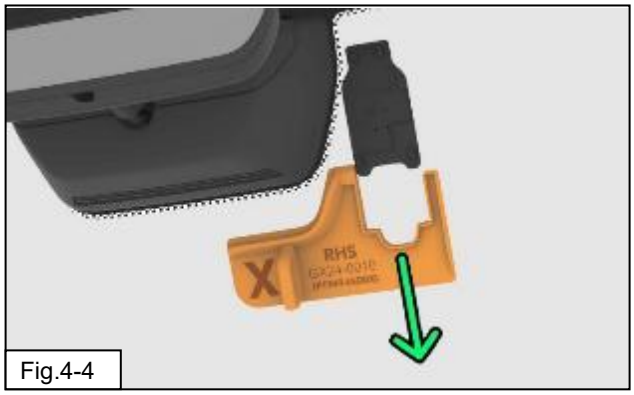


Fig.4-4

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 LSS cover.

(b) For PPO Installations, please use 3D hard template "X" with the part number "GX24-0010" (Legacy: PT949-IAD0X) (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.

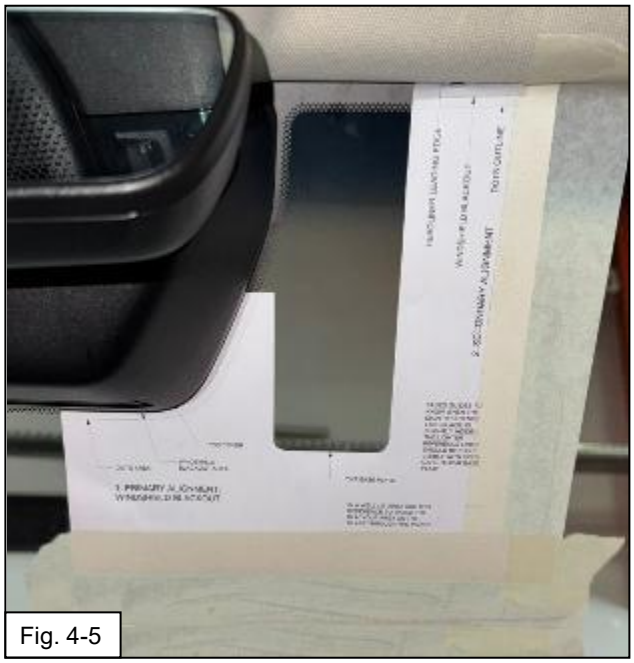
(c) For Dealer Installations or in the case that the 3D hard template is unavailable**,** please follow steps (g) through (i)

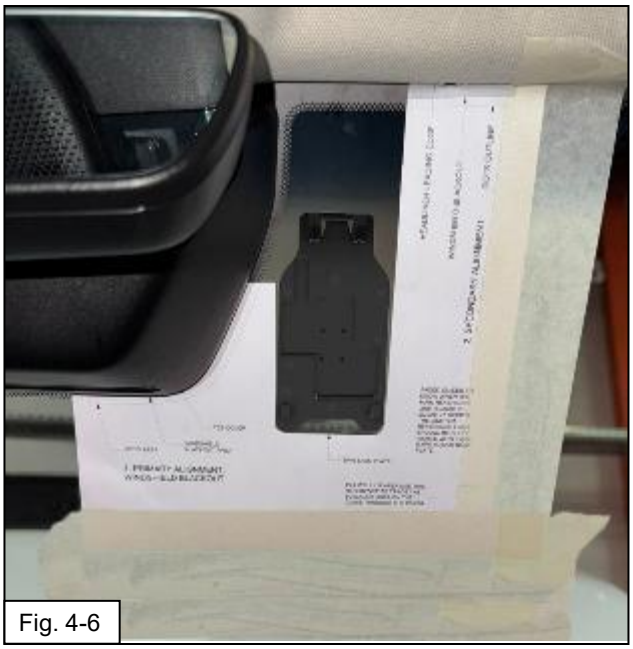
(d) Insert the 3D Template (**GX24-0010**) between the LSS cover and the windshield glass, it should fit snugly against the LSS cover side walls, and the features of the template should allow it to stay in place hands free. If not, apply a small bit of tape to support the lower edge*. (Fig. 4-2)*

(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 LSS cover. (Fig. 4-4)

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Fig. 4-5


Fig. 4-6

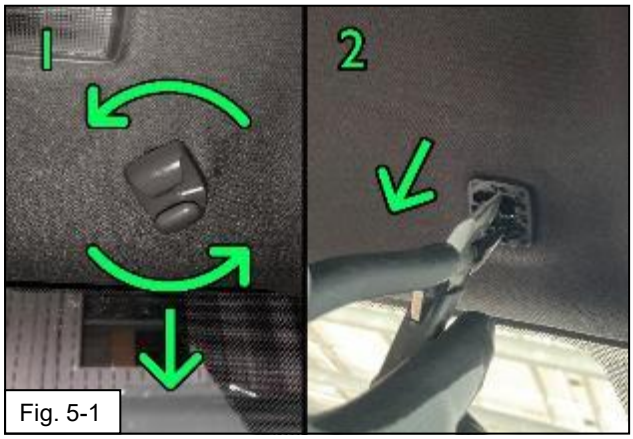


Fig. 5-1

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 LSS 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).

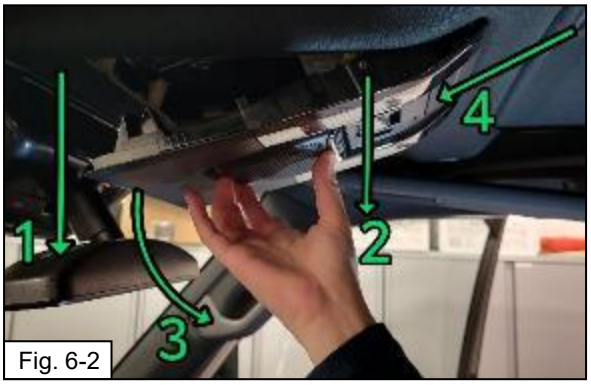


Fig. 6-2

(b) (1) Pull down firmly to release the front 2 clips first, (2) then 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.

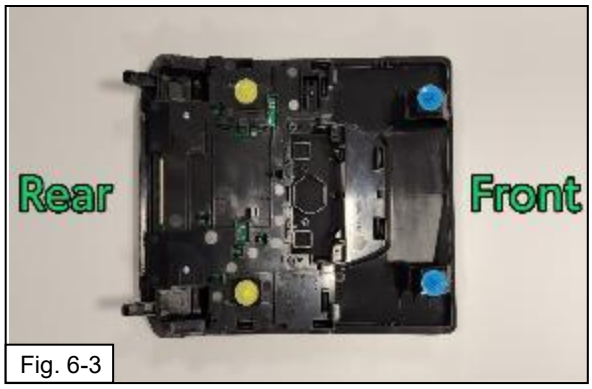


Fig. 6-3

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

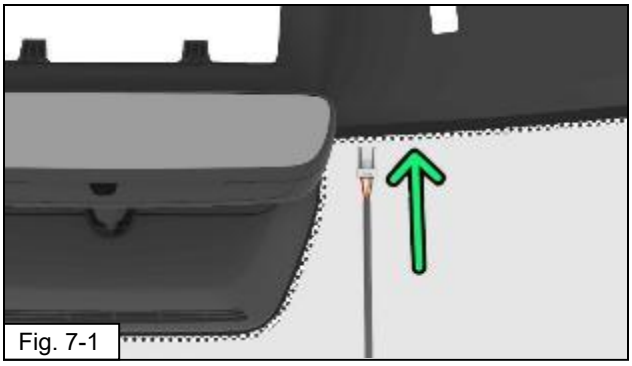
(d) Inspect the console clips and replace them if damaged (Yellow: 90467-09245, Blue: 90467-10167).


Fig. 6-4

(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)

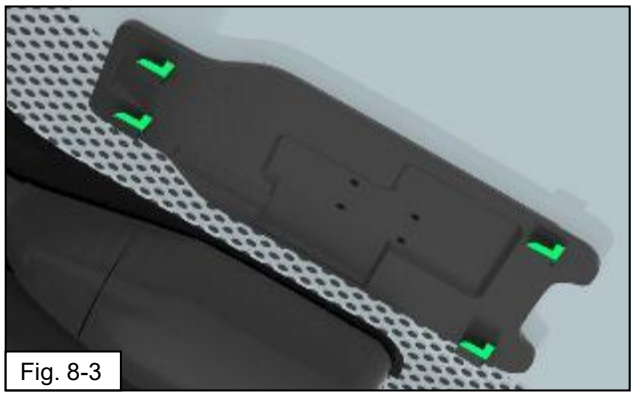
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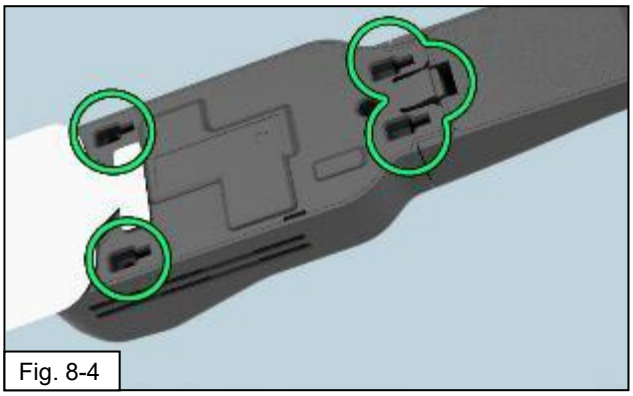
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Fig. 8-1


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.

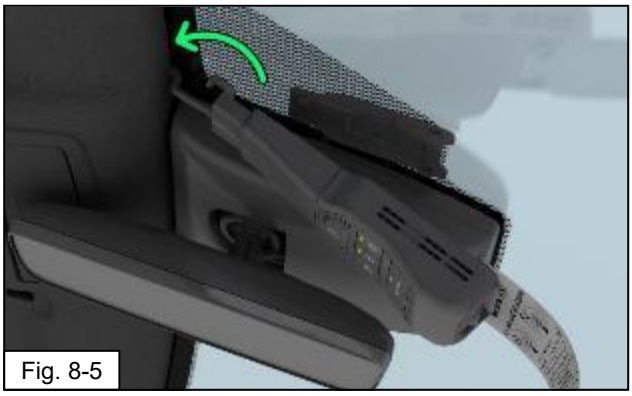
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 8-1)

(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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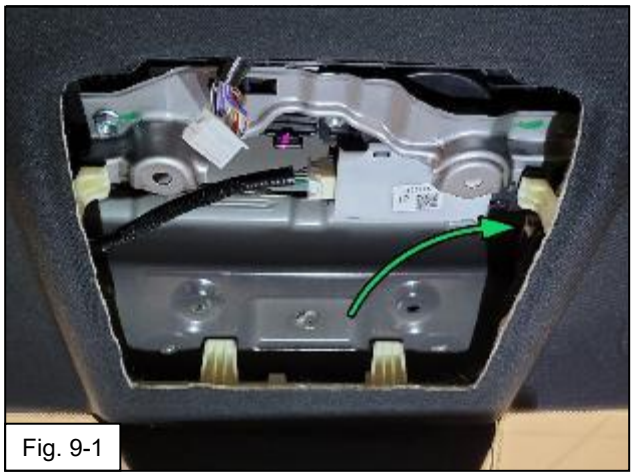
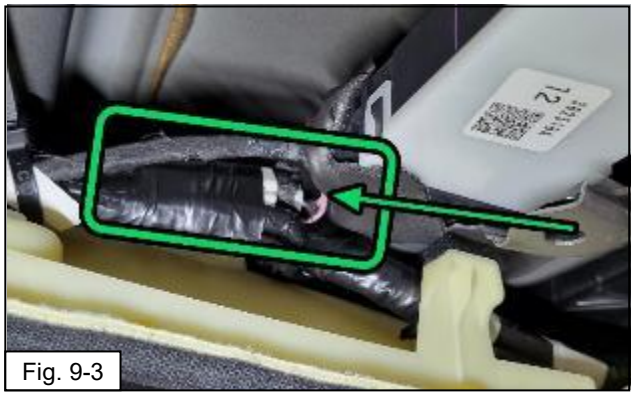

Fig. 9-1


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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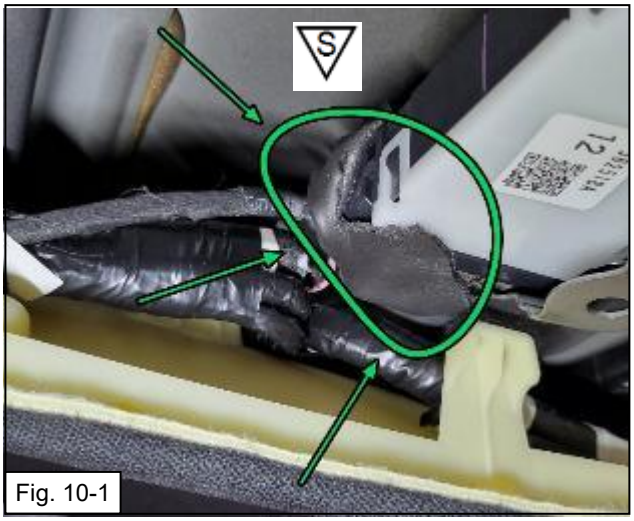
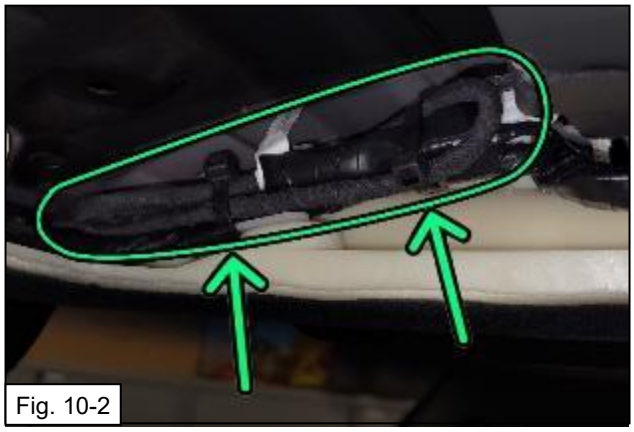


Fig. 10-1


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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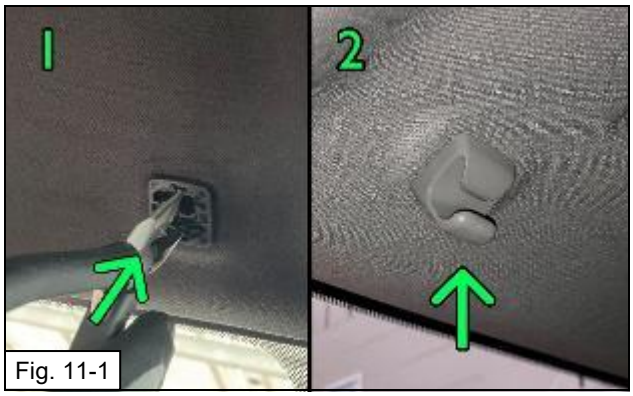
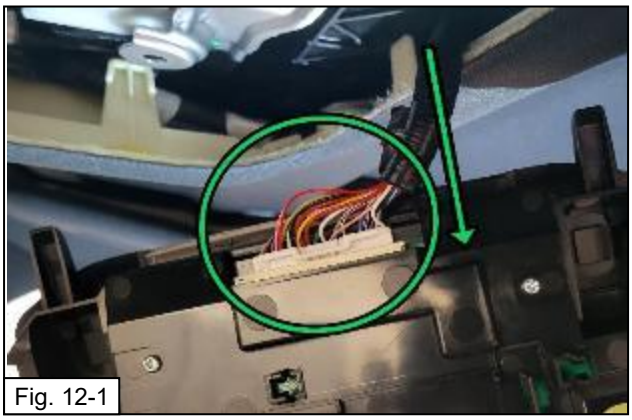


Fig. 11-1

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.

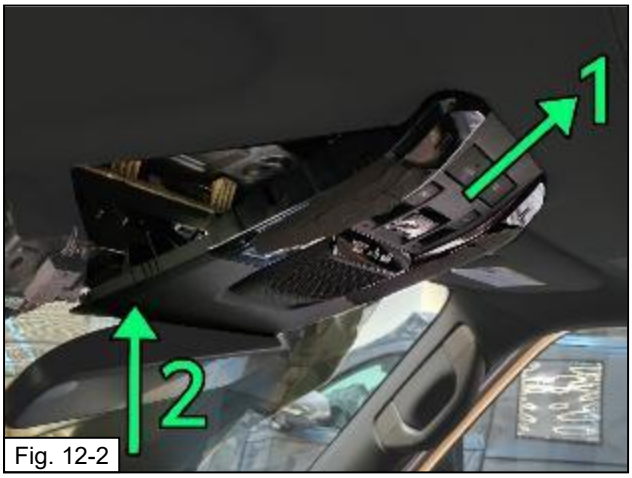


Fig. 12-2

(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)

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

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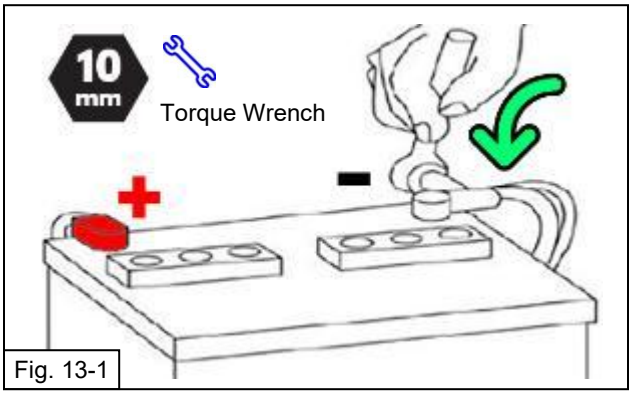


Fig. 13-1

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)**

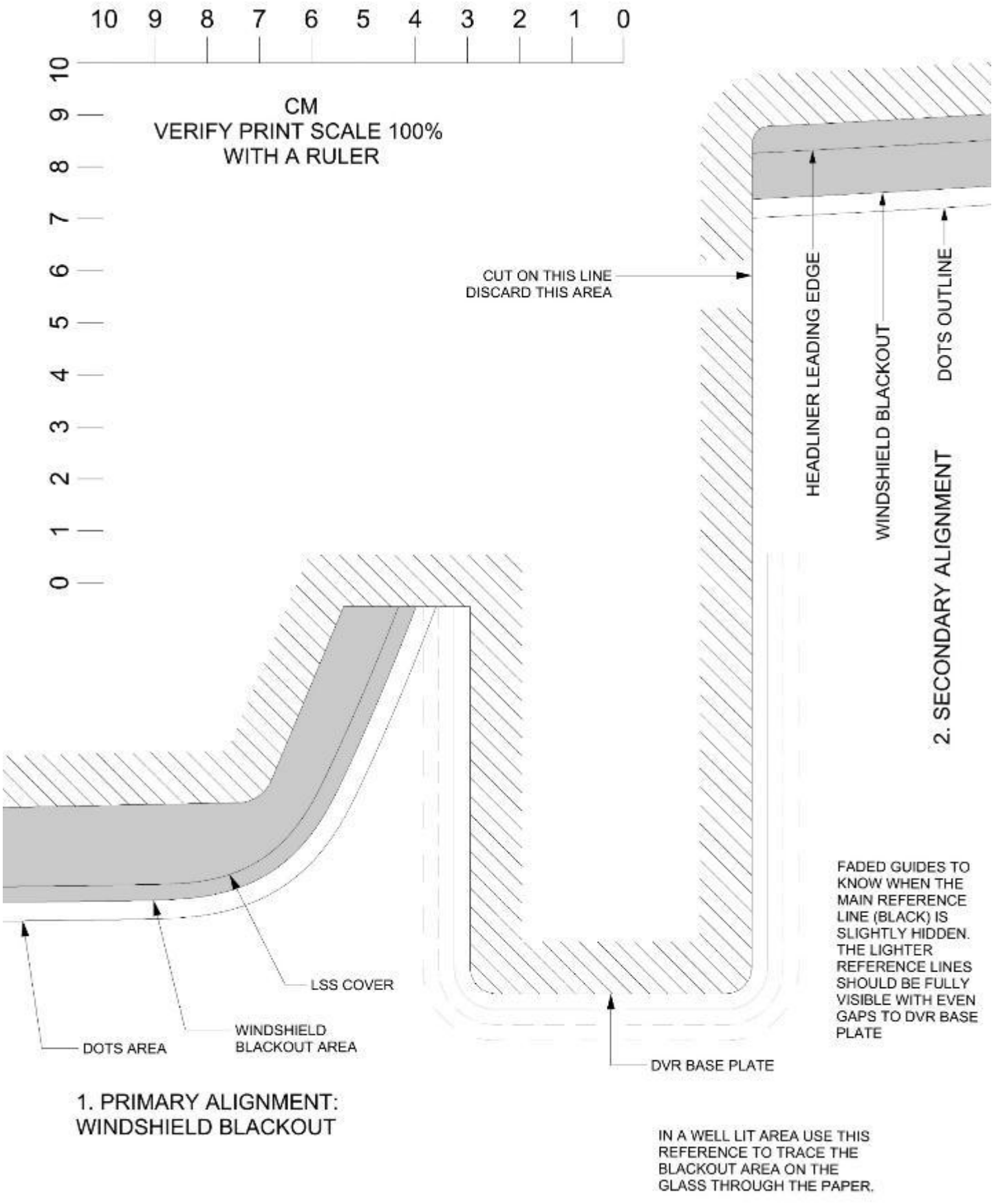
(c) **CAUTION:** Do not touch the positive terminal with any tool.

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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LEXUS INTEGRATED DASHCAM
2024 GX RHS TEMPLATE

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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: PT949-76221 (Dashcam)
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
IS 22-0016 V2 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0J-V2** 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

All Models

Recommended Sequence of Applications

Item #	Accessory
1	Dashcam (PT949-76221)
2	Y-Harness (PT949-48210)

*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	Up to 2 pcs	Roof Console **YELLOW** Clips if damage occurs during removal. P/N: 90467-09245
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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.

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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 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 Lexus dealer for a copy of this document.

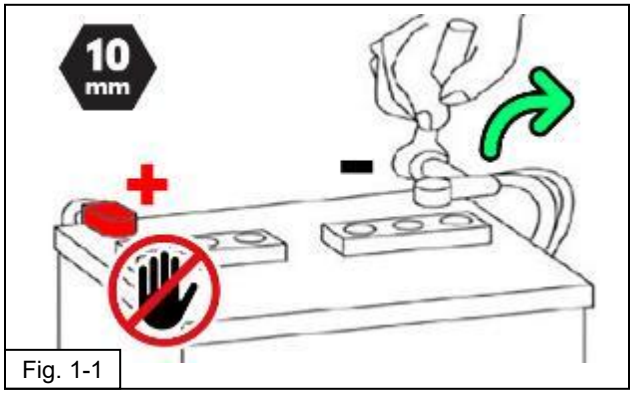
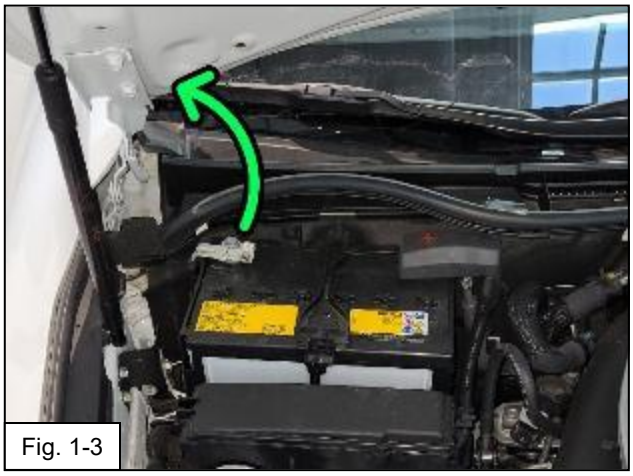


Fig. 1-1


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).

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:

(d) The 12V Battery is located in the engine compartment in front of the driver. (Fig. 1-2).

(e) Protect the Fender / Bumper paintwork.

(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. 1-3)

(g) Use VDC approved (non-conductive) protector to cover battery terminal to prevent contact with Negative Cable).

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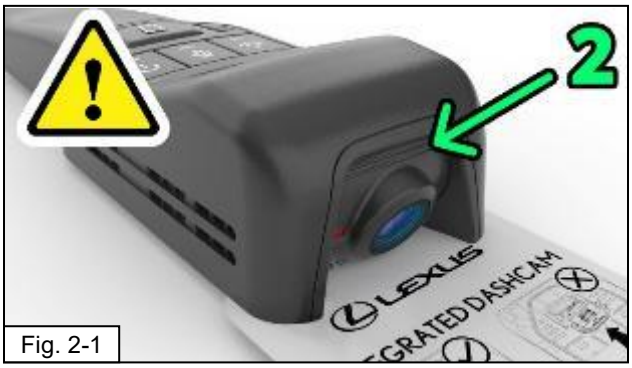


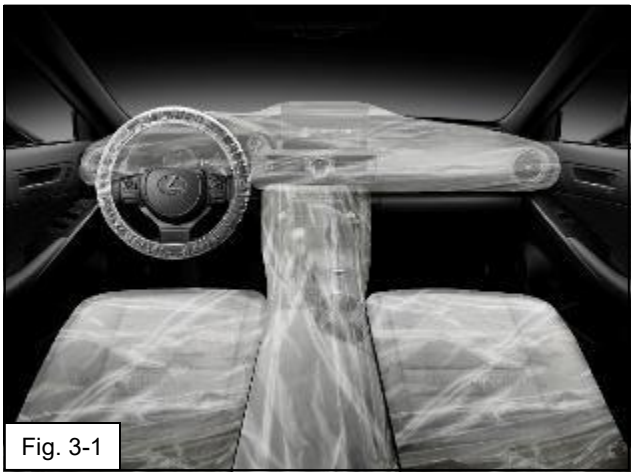
Fig. 2-1

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)

(c) If this is not correct, please see adjustment instructions available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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Fig. 4-1



Fig. 4-2



Fig. 4-3

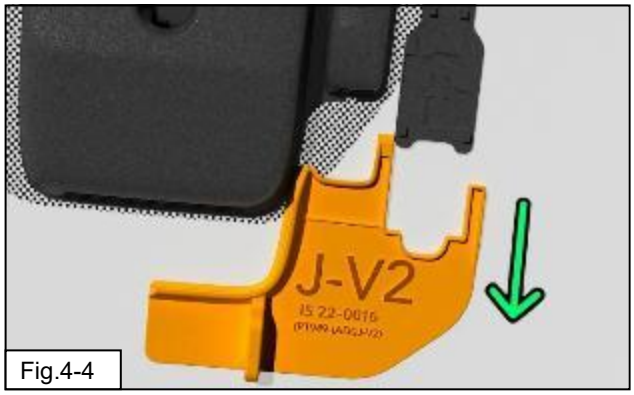


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use 3D hard template "**J-V2**" with the part number **"IS 22-0016 V2."**

(*Legacy: **PT949-IAD0J-V2***) (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 (**IS 22-0016 V2**) between the LSS cover and the windshield glass, it should fit snugly against the LSS 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 LSS cover. (Fig. 4-4)

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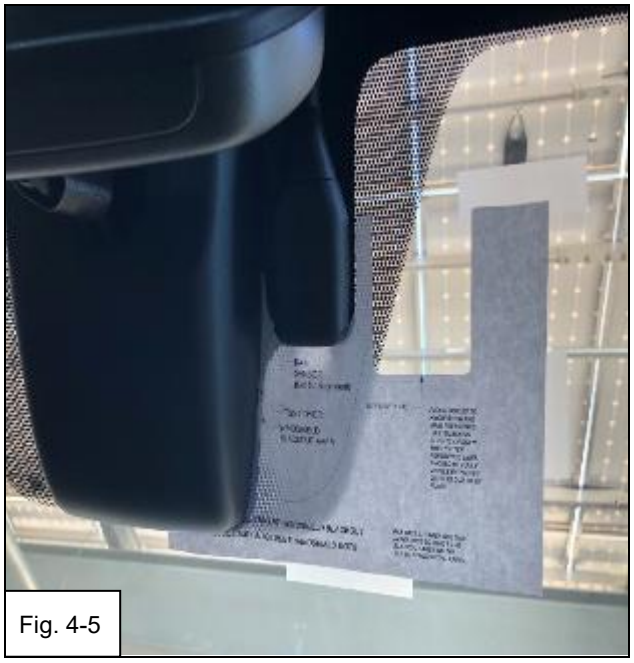

Fig. 4-5


Fig. 4-6

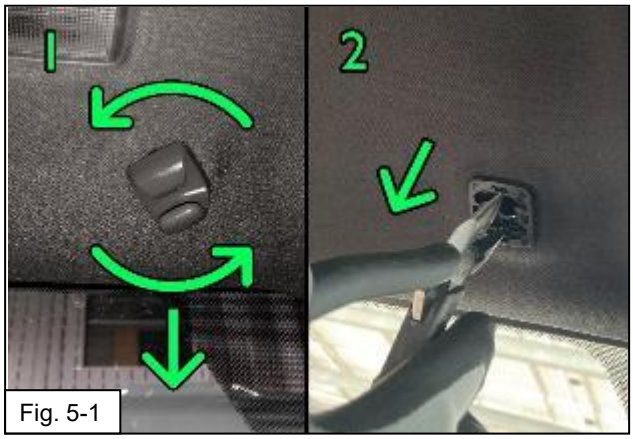


Fig. 5-1

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 LSS 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

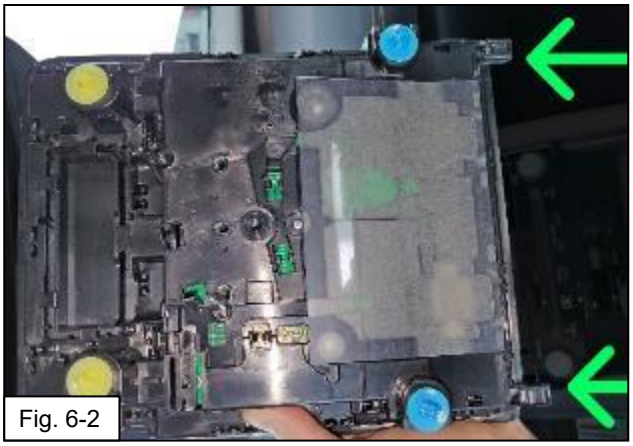

Fig. 6-2


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 to unhook the 2 clips at the rear edge. (Fig. 6-1) Do NOT pull down on the rear edge first as there are 2 hook tabs hidden inside. (Fig. 6-2)

(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 two wire harnesses from the roof console and place the console in a safe place to avoid damage. (Fig. 6-3)

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

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Fig.7-1

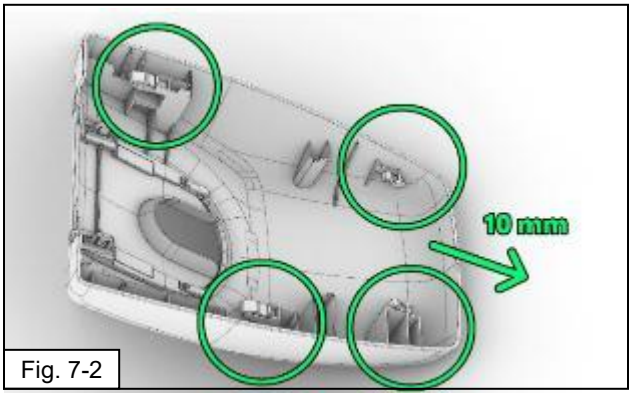


Fig. 7-2

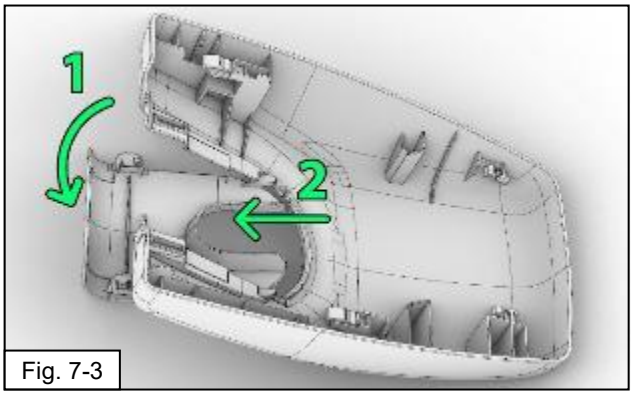


Fig. 7-3


Fig. 7-4

7. Remove the LSS Cover

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

(b) Holding the LSS 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)

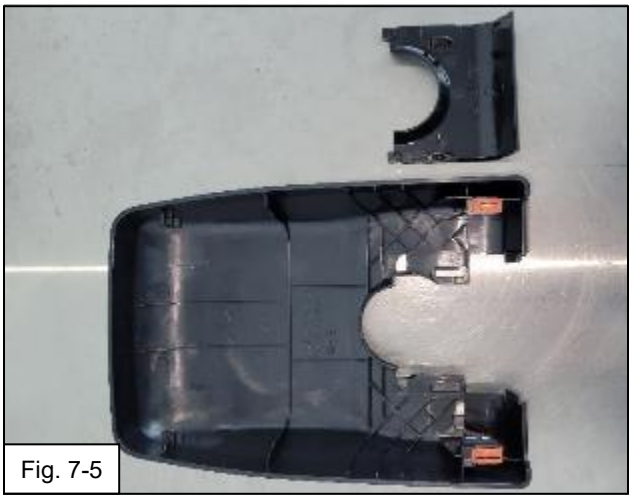
(c) While supporting the main cover, pull down on the smaller inset cover around the mirror mount, using either your hooked panel removal tool or your fingertips, to detach the smaller cover from the main LSS cover. Take care not to scratch the headliner in the process.

(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)

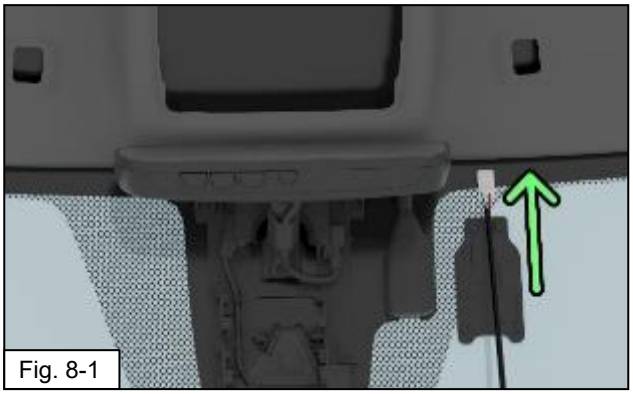
(2) Alternatively, you can gently pull down on the headliner, reach through the Map Light Console opening and push down on the upper rearward edge of the cover plate.

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

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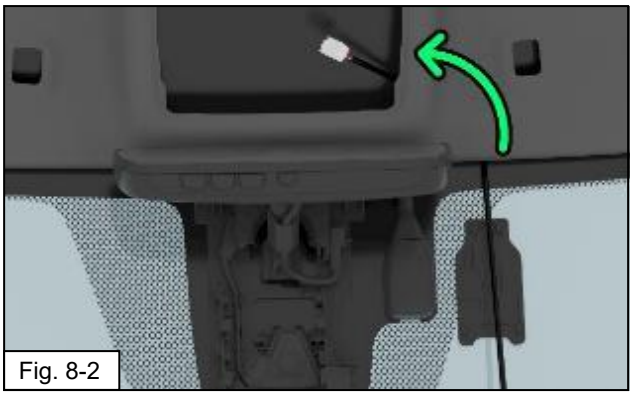

Fig. 7-5

(d) Remove the LSS main cover by sliding the cover down (Fig. 7-5, shown from the back side for clarity) from the LSS 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)


Fig. 8-1

8. Route Dashcam Harness through the Headliner

(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. 8-1)


Fig. 8-2

(b) Route the Dashcam pigtail through the headliner to the map light console area. (Fig. 8-2)


Fig. 8-3

(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. 8-3)

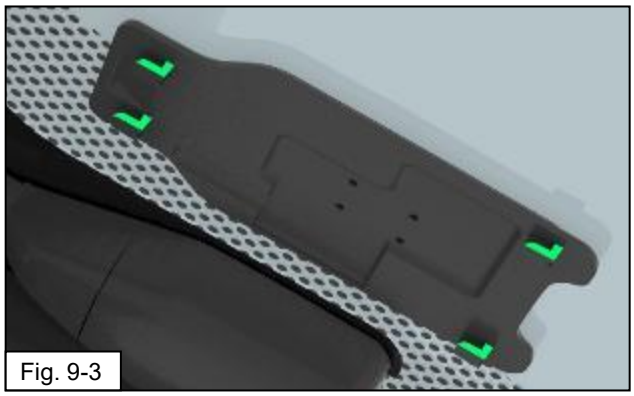
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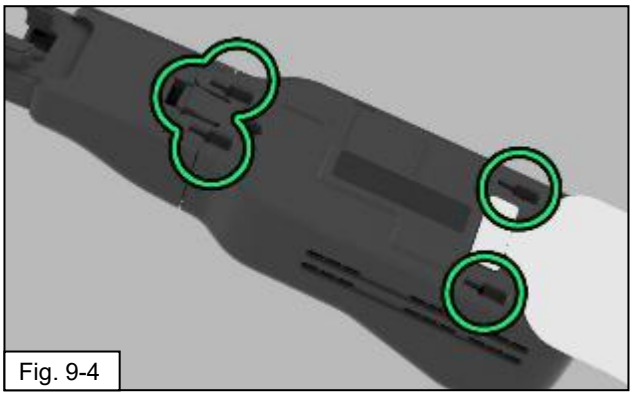
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Fig. 9-1


Fig. 9-2


Fig. 9-3


Fig. 9-4

9. 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.

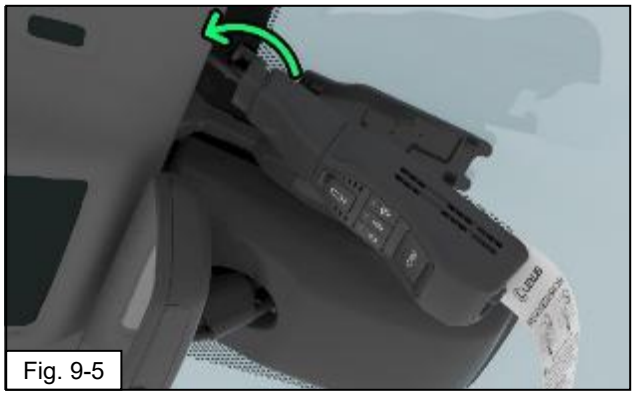
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 9-1)

(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. 9-2)

NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 9-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 9-4)

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Fig. 9-5

(a) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 9-5)


Fig. 9-6

(b) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 9-6)


Fig. 9-7

(c) 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. 9-7)


Fig. 9-8

(d) 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. 9-8)

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Fig. 10-1

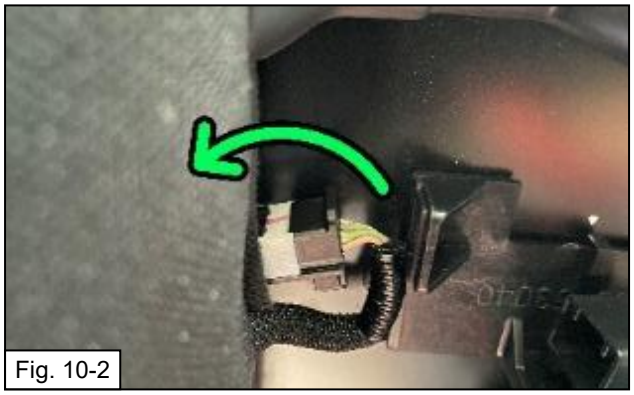

Fig. 10-2


Fig. 10-3


Fig. 10-4

10. Install the Y-Harness

(a) Disconnect the mirror power harness in on the release tab. The mirror harness is the 10-pin connector, on the passenger side of the mirror base. (Fig. 10-1)

(b) Install the Y-harness between the mirror and the vehicle mirror wire harness connector.

(1) Gently pull the vehicle's Power Mirror connector back inside the Map Light Console Area (Fig. 10-2)

(2) Insert the male mirror connector into the Y-Harness black female connector. (Fig. 10-3)

(3) Apply the supplied Foam Tape to insulate the connector from rattles. (Fig 10-3)

(4) Gently feed the black Y-Harness male connector back to the LSS area and insert into the female mirror connector affixed to the mirror base. (Fig. 10-3)

(5) Pull the remaining slack harness back into the headliner / map light console area as per the image. (Fig. 10-4)

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Fig. 10-5

(c) Connect the Dashcam pigtail harness to the newly fitted Y-harness that was fitted in step 7. (Fig. 10-5)


Fig. 10-6

(d) Apply the supplied Foam Tape to insulate the connectors from rattles. (Fig. 10-6)


Fig. 11-1

11. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 11-1)

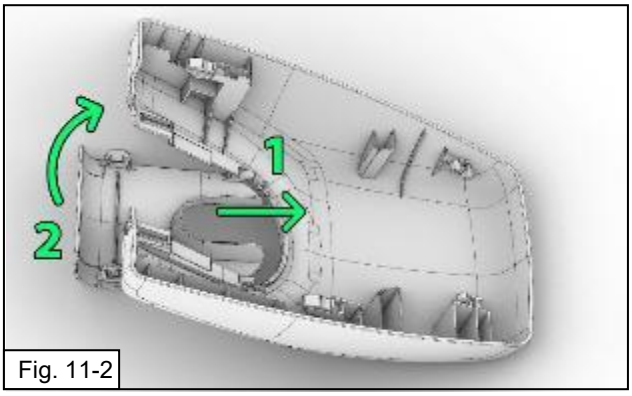


Fig. 11-2

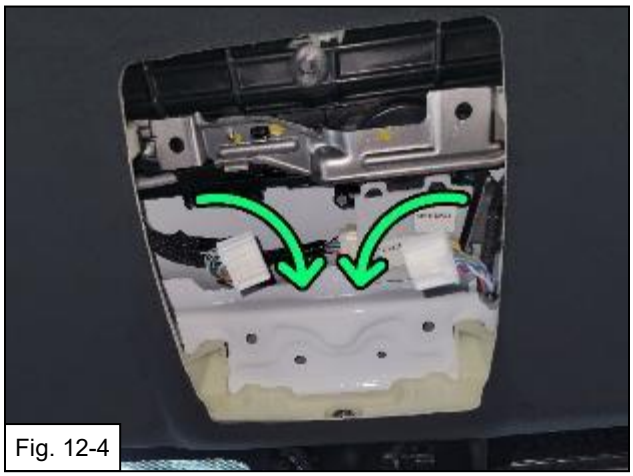
(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 11-2)

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Fig. 12-2


Fig. 12-3


Fig. 12-4

12. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm that both connector pairs and fuse holders have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 12-1)

(b) Secure the Y-harness and fuse holders against the harness at the front edge of the map light / sunglasses pocket opening. Snip excess Cable Tie length. (Fig. 12-2)

(c) Secure the Dashcam Pigtail and Y-harness bundle behind the plastic framework to the front of the console opening. Arrange this in a way that does not obstruct the console being reinstalled. (Fig. 12-3)

(d) Ensure that the connections for the console is still free to be connected and that the bundled harnesses are not obstructing the console map light connector. (Fig. 12-4)

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

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

(g) After securing, be sure to snip off extra cable-tie length to prevent any rattles or squeaks from the loose end of the cable tie strap.

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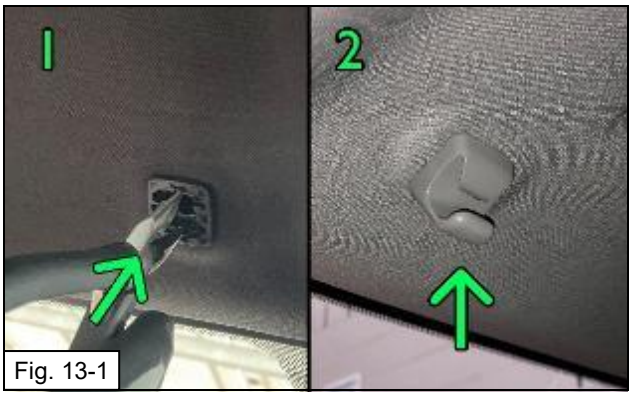


Fig. 13-1

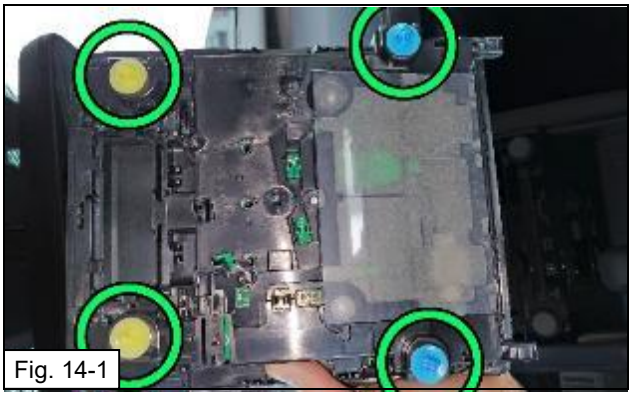

Fig. 14-1



Fig. 14-2

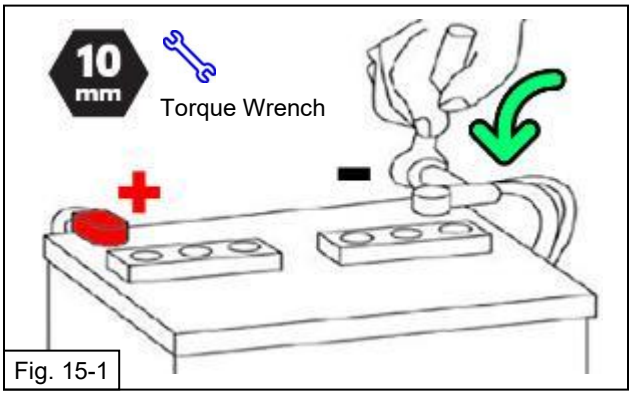


Fig. 15-1

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 L)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 13-1 R)

14. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, test map lights and sunroof control if equipped. (Fig. 14-1)

(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. 14-1)

(c) Reinstall the console by carefully aligning the 3 tabs towards the rear of the opening and observe the marks in headliner for alignment references. Carefully push in to place to lock. Check all corners for gaps. If needed, reposition harnesses and try again. (Fig. 14-2)

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

15. Reconnect Vehicle Battery

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

(b) Torque to 5.4 N•m (48 in•lbsf)

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

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

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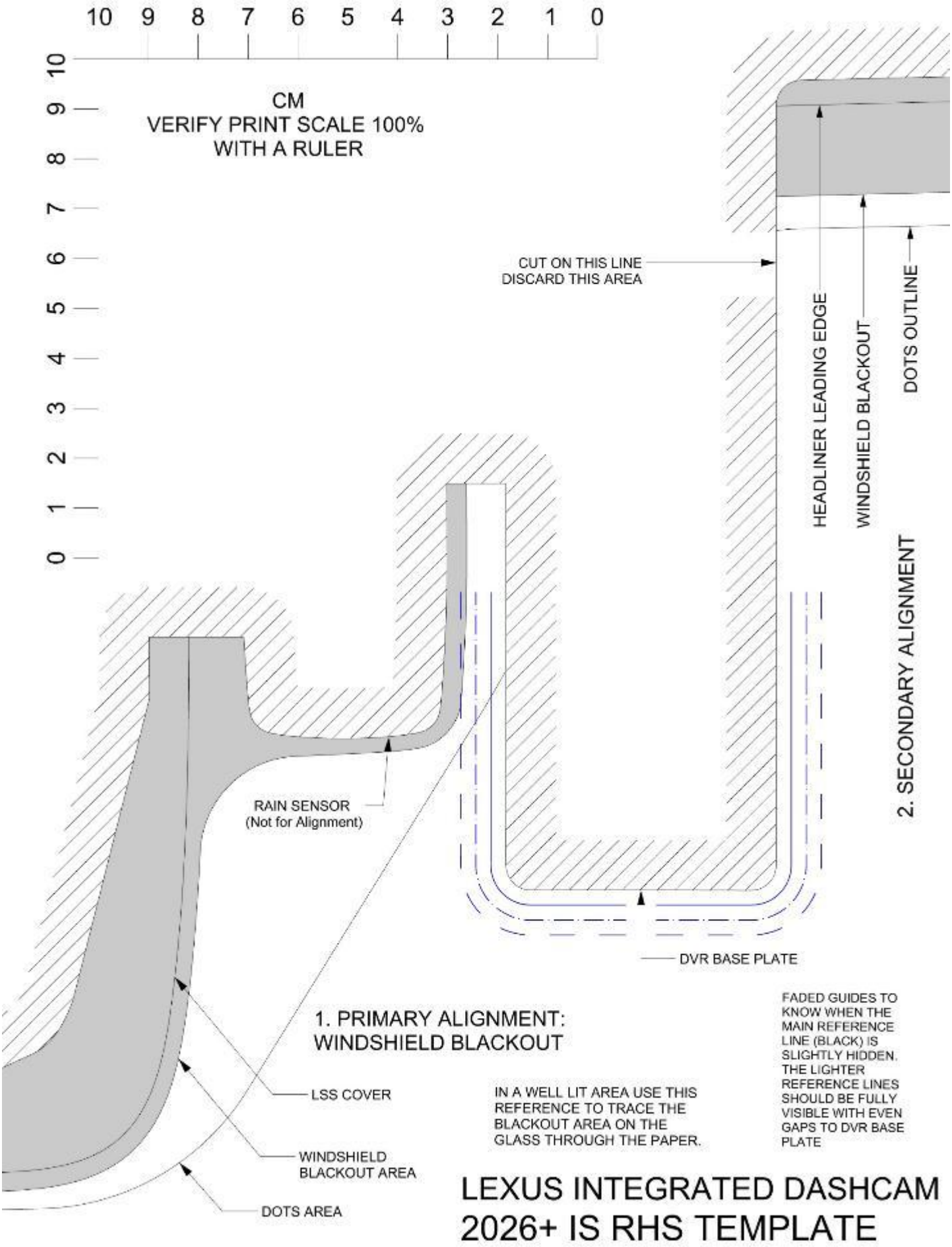
16. Owner's Manual



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

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LEXUS INTEGRATED DASHCAM
2026+ IS RHS TEMPLATE

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LEXUS IS 2022- DASHCAM (Digital Video Recorder)

Checklist - these points **MUST** be checked to ensure 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: **PT949-76221 (Dashcam)**
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
LS22-0017-V1 **OR** **LS22-0017-V2** **OR** **LS22-0017-V3** **OR** **LS22-0017-V4** Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0L-V1 or PT949-IAD0L-V2 or PT949-IAD0L-V3 or PT949-IAD0L-V4** are also valid and can be used. See step 4 for clarification.
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

All Models

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76220)
2	Y-Harness (PT949-48210)

*Mandatory

Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description
1	Up to 4 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	PT949-76220-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 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.

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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 quality installation.

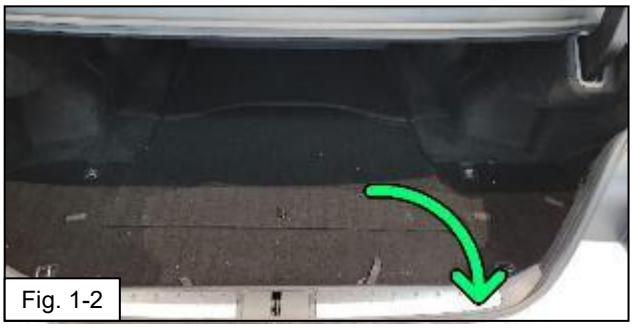
These guidelines can be found in the "Accessory Installation Practices" document.

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 Lexus dealer for a copy of this document.


Fig. 1-1


Fig. 1-2

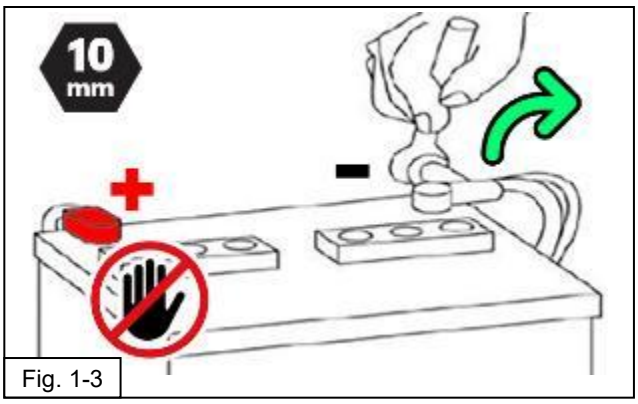
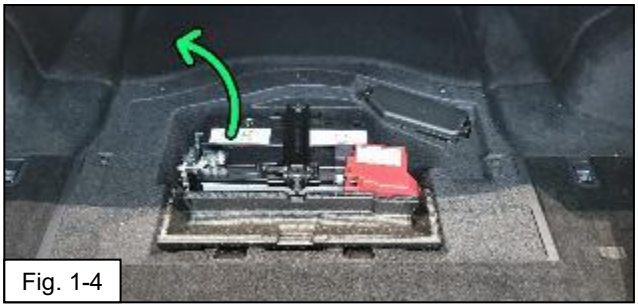


Fig. 1-3


Fig. 1-4

1. Disconnect Battery

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).

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

(b) The 12V Battery in the Lexus LS is located in the trunk, in the middle of the trunk floor (Fig. 1-1)

(c) Remove the rubber trunk mat (if equipped). (Fig. 1-1)

(d) Lift up and remove the battery access cover panel in the middle of the trunk load floor (Fig 1-2)

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

(f) 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. (Fig. 1-4).

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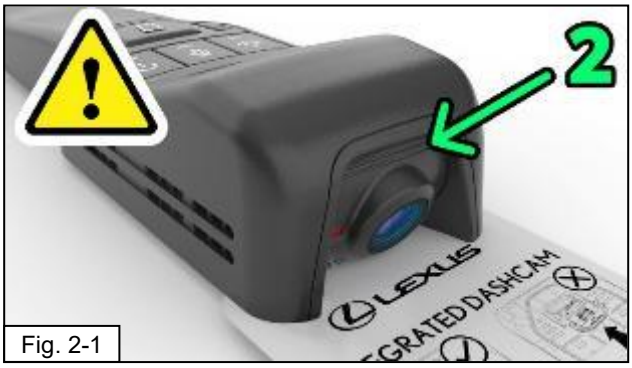


Fig. 2-1

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)

(c) If this is not correct, please see adjustment instructions available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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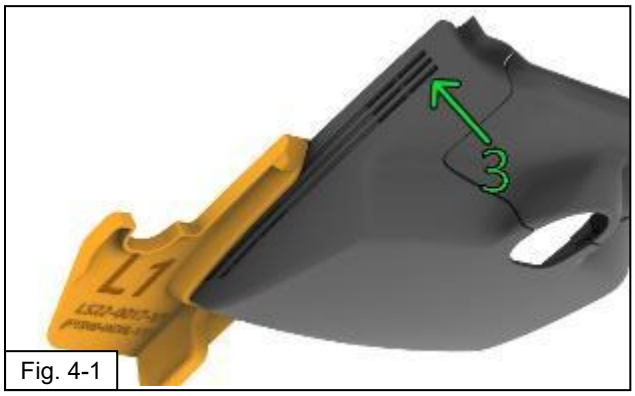


Fig. 4-1

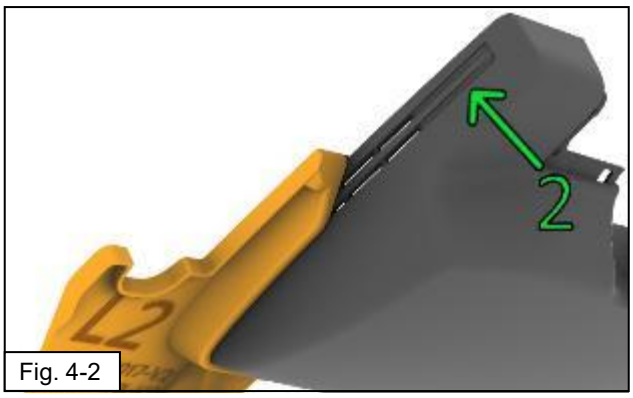


Fig. 4-2

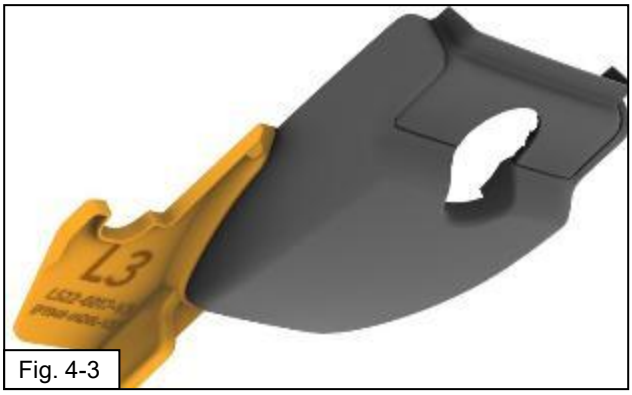


Fig. 4-3

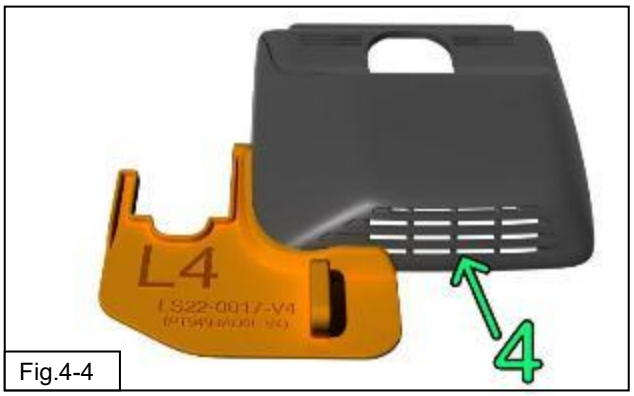


Fig.4-4

4. IAD Selection

The IAD used will vary depending on the style of LSS cover installed in the vehicle. Selection of the respective IAD can be done based on the instructions mentioned below.

For PPO Installations, please use the 3D hard templates, for DIO Installations please use the paper templates at the end of this document.

(a) For STEREO Camera LSS systems that feature **3 Vent Rows on the sides**, use "**L1"** (previously labelled as "**L**") with the part number **"LS22-0017-V1"** *(Legacy: **PT949-IAD0L-V1**)*. (Fig. 4-1)

*Note that Older Template part numbers **"LS22-0017 / PT949-IAD0L"** can be used in place of V1 versions.*

(b) For STEREO Camera LSS systems that feature **2 Vent Rows** on the sides, use "**L2"** with the following part number **"LS22-0017-V2"** *(Legacy: **PT949-IAD0L-V2**)*, (Fig. 4-2)

(c) For MONO Camera LSS systems that **have no vents on the sides and tapers at the bottom**, use "**L3"** with the part number **"LS22-0017-V3"** *(Legacy: **PT949-IAD0L-V3**)*, (Fig. 4-3)

(d) For the vehicles that have the LSS Cover with 4 Vent Rows at the bottom of the LSS cover towards the dashboard, use "**L4"** with the part number **"LS22-0017-V4"** *(Legacy: **PT949-IAD0L-V4**)*, (Fig. 4-4)

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Fig. 5-1

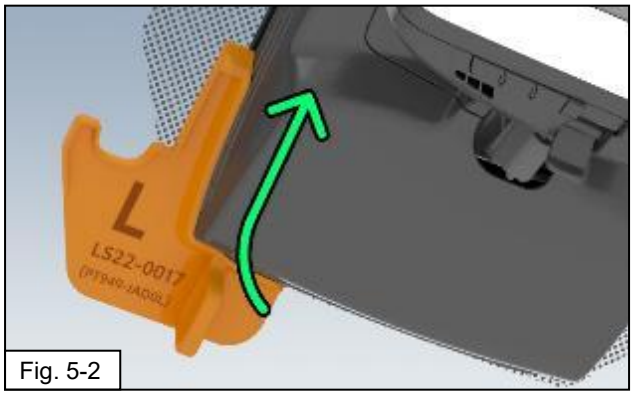


Fig. 5-2

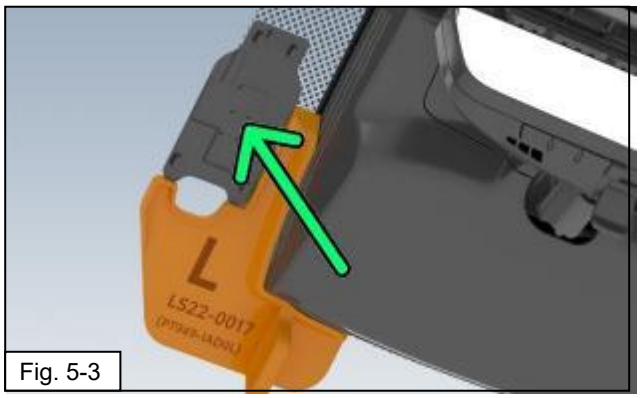


Fig. 5-3

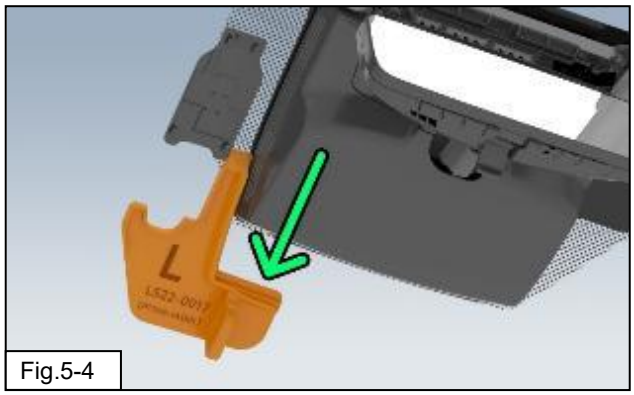


Fig.5-4

5. 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 LSS cover.

(b) For PPO Installations, please use the 3D hard template based on the instructions in step 4.

(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 (**LS22-0017-Vx where x is the version number**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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. 5-2)

(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. 5-3)

(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 LSS cover. (Fig. 5-4)

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Fig. 5-5



Fig. 5-6

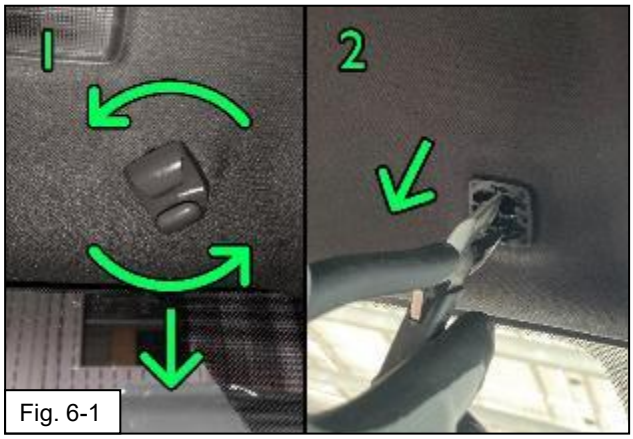


Fig. 6-1

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 LSS cover, align to the indicated line and affix the template to the windshield using tape. (Fig. 5-5)

(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. 5-6)

(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.

6. 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. 6-1)

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

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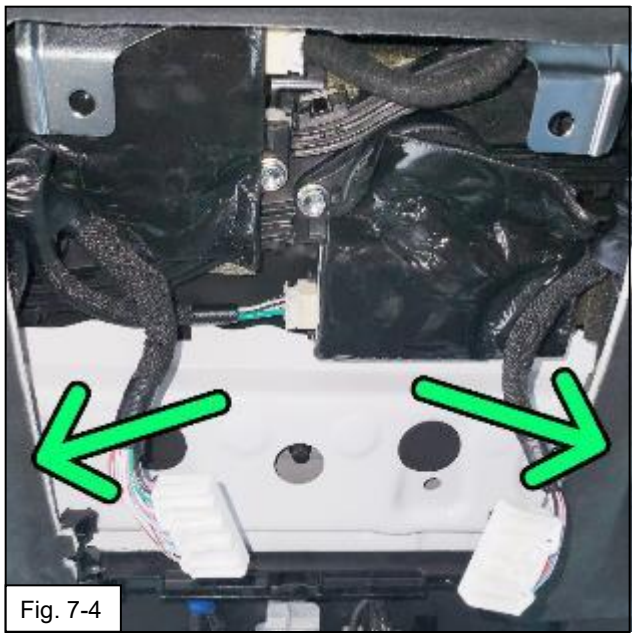
Fig. 7-1



Fig. 7-2



Fig. 7-3


Fig. 7-4

7. Remove Roof Map Light Console

(a) Before removing the Map Light Console, there is a trim between the Console and LSS Cover that must be removed first. Start by using a hooked / pry trim removal tool ONLY on the **Driver's Side** to pull down on the small trim piece, then once unclipped, rotate it down to unhook the passenger side. (Fig. 7-1)

NOTE: There is a hook tab on the passenger side that will be damaged if the passenger side is removed first.

(b) Adjust the mirror position so it will not be damaged by the console removal.

(c) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 7-2)

NOTE: Do NOT start from the rear clips.

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

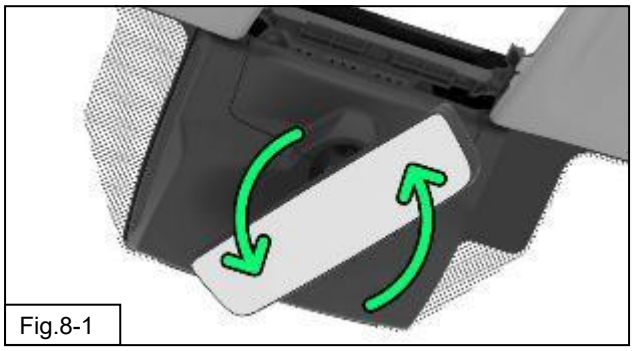
(2) CAUTION: Do **not** pry against the headliner, it will leave visible damage.

(3) Note clips appearance in the image to better understand the removal process. (Fig. 7-3)

(d) Once fully detached, disconnect the wire harness from both sides of the roof console (Fig. 7-4) and place the console in a safe place to avoid damage.

(e) Inspect the console clips and replace if damaged (**P/N: 90467-09240, 4 PCS**)

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Fig.8-1

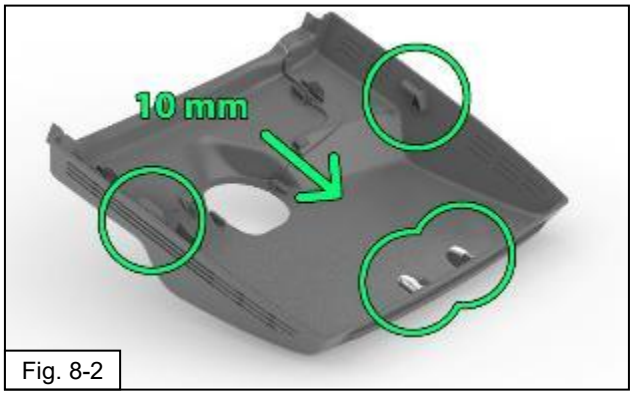


Fig. 8-2

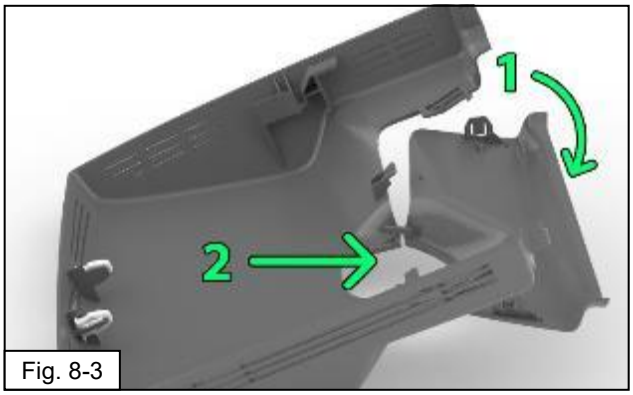
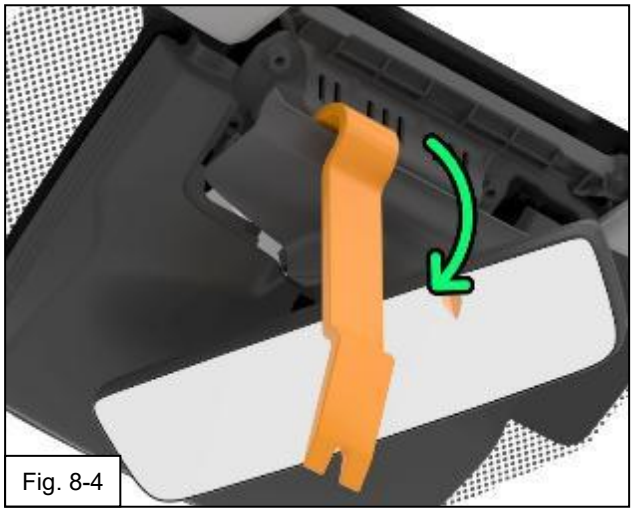


Fig. 8-3


Fig. 8-4

8. Remove the LSS Cover

(a) Start by rotating the mirror approximately 45 degrees to improve access to the sides of the LSS cover while retaining access directly above the mirror. (Fig. 8-1)

(b) Holding the LSS 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. 8-2)

(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 LSS 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. 8-3), (Fig. 8-4)

(2) Alternatively, with the right shaped trim panel tool you may be able to pry the smaller cover off first. (Fig. 8-4)

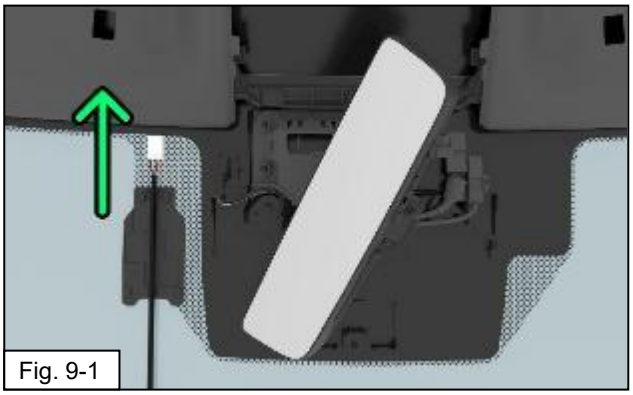
(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks. (Fig. 8-3)

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

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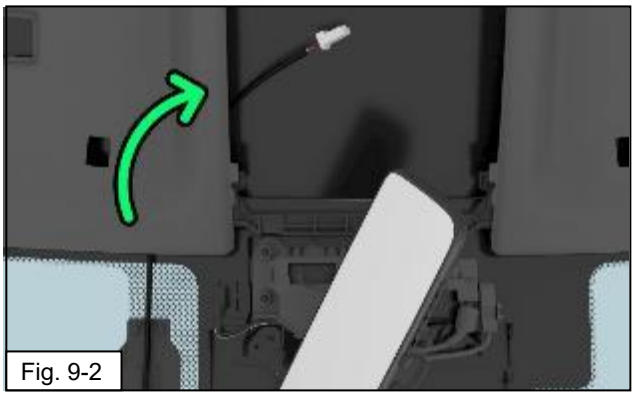

Fig. 8-5

(d) Remove the LSS main cover by sliding the cover down (Fig. 8-5, shown from the back side for clarity) from the LSS cover base in the direction of the bottom of the windshield / towards the wiper cowl area. All three covers should now be fully removed, store them carefully to prevent damage. (Fig. 8-5)


Fig. 9-1

9. 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. 9-1)


Fig. 9-2

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 9-2)


Fig. 9-3

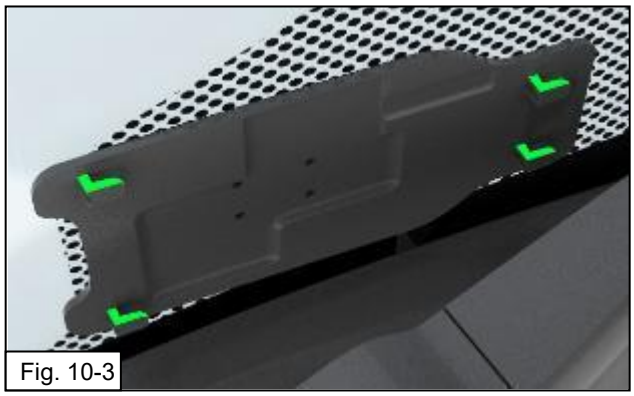
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 9-3)

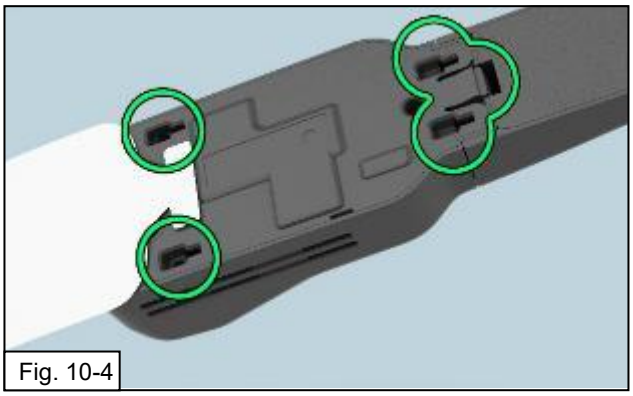
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Fig. 10-1


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.

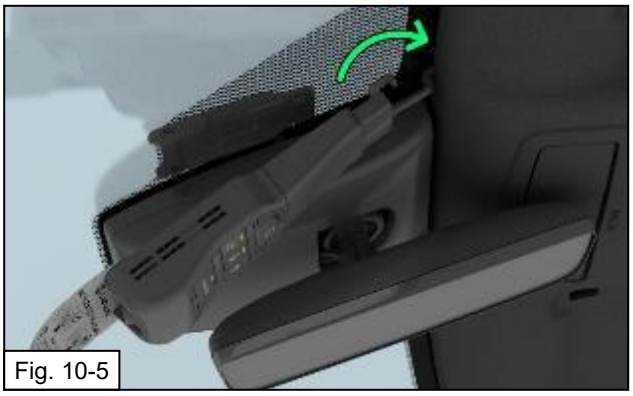
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 10-1)

(a) **IMPORTANT: 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)


Fig. 10-8

(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. 10-8)

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Fig. 11-1

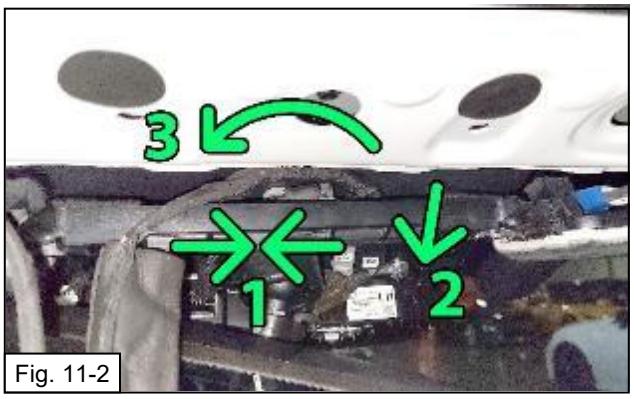
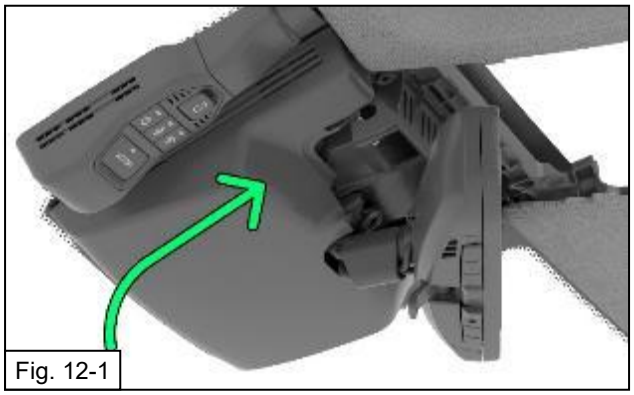


Fig. 11-2


Fig. 12-1

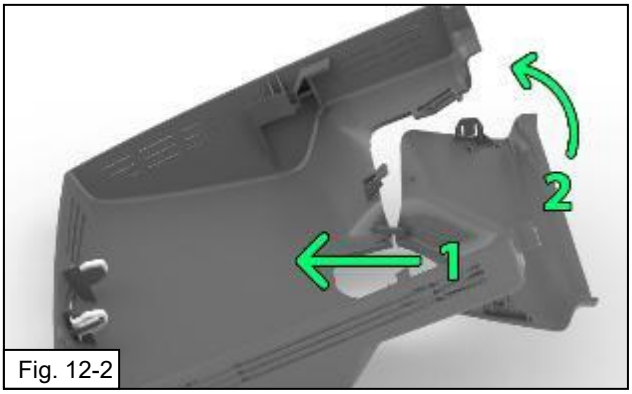


Fig. 12-2

11. Install the Y-Harness

(a) Locate the power mirror harness connector above the mirror to the passenger side. It is the black 10 pin connector, to the outboard position on the passenger side of the mirror mount. Unplug the connector. (Fig. 11-1)

(b) Connect the Y-Harness mating female connector **(1)** to the vehicle side harness that was unplugged above (Fig. 11-2)

(c) Insert the male connector **(2)** into the original position on the mirror assembly (Fig. 11-2).

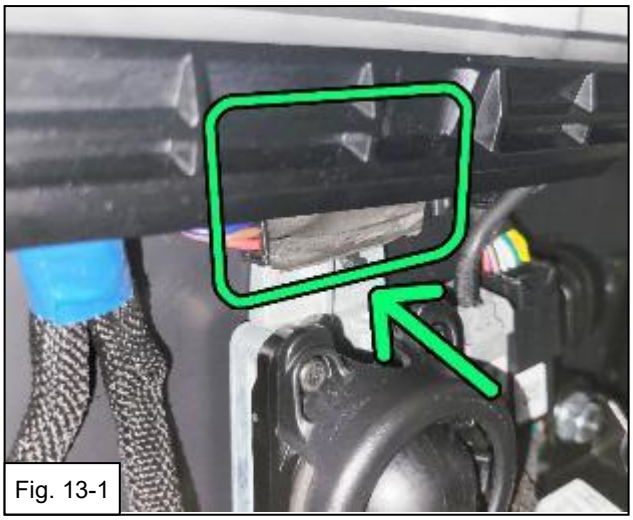
(d) Route Dash Cam connector **(3)** of the Y-Harness above the plastic frame into the map light console space and connect the Harness to the Dash Cam pig tail. (Fig. 11-2).

12. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 12-1)

(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 12-2 – shown off the vehicle for picture clarity)

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Fig. 13-1

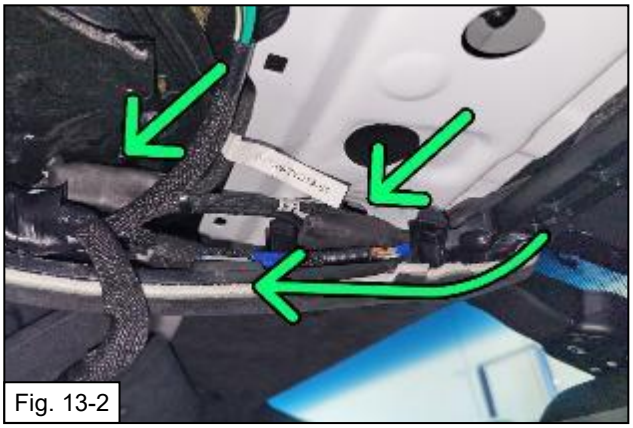

Fig. 13-2


Fig. 13-3

13. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the connectors of the Y-Harness to Vehicle and Dash Cam to Harness have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 13-1)

(b) Route the Y-harness above the plastic frame at the front of the headliner towards the driver's side. (Fig 13-1, 13-2)

(c) Secure the Dashcam harnesses and Fuse Holders 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. 13-2)

(d) 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. 13-3)

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

(f) **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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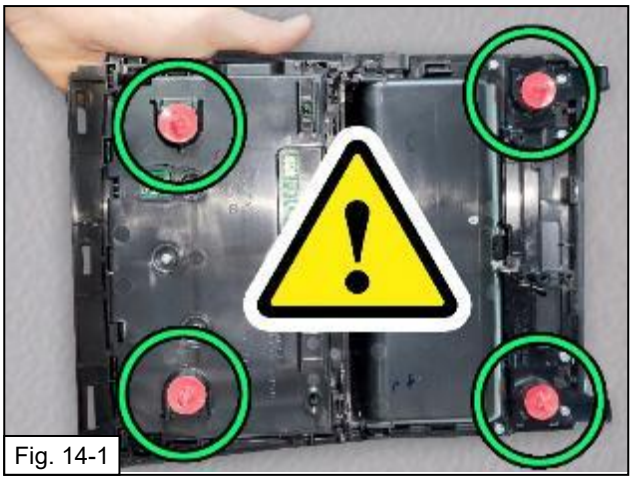

Fig. 14-1



Fig. 14-2

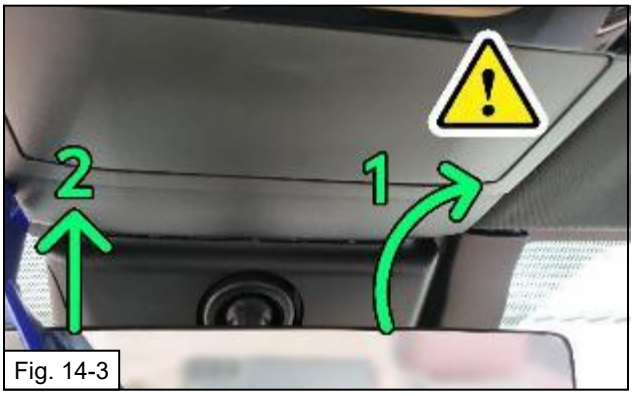


Fig. 14-3

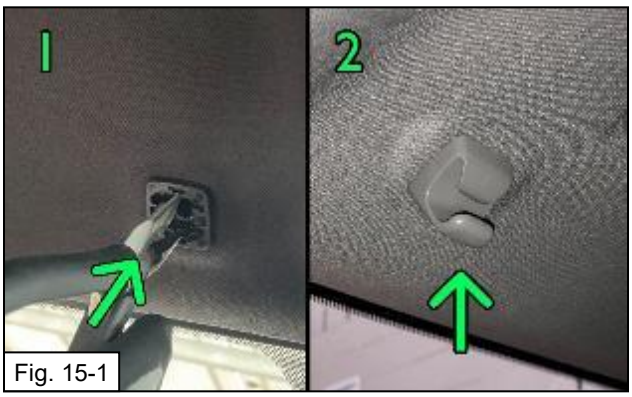


Fig. 15-1

14. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 14-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 14-2)

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

(e) Reinstall the trim piece between the Map Light Console and the LSS system by first hooking in the Passenger Side, and then pushing up with the driver's side. (Fig: 14-3)

(f) **Note: Be careful aligning the hooks and clips of the small trim piece to avoid damage**

15. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 15-1)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 15-1)

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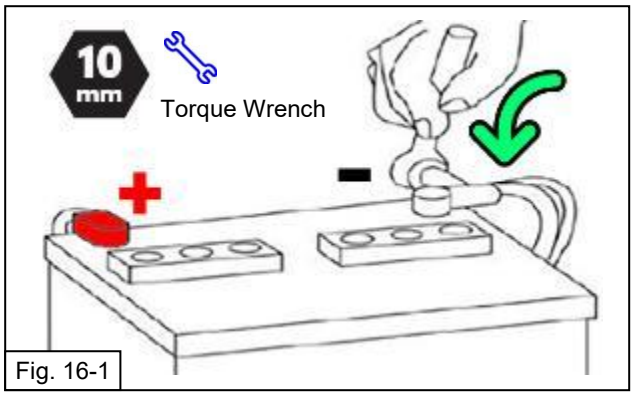


Fig. 16-1


Fig. 17-1

16. 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.

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

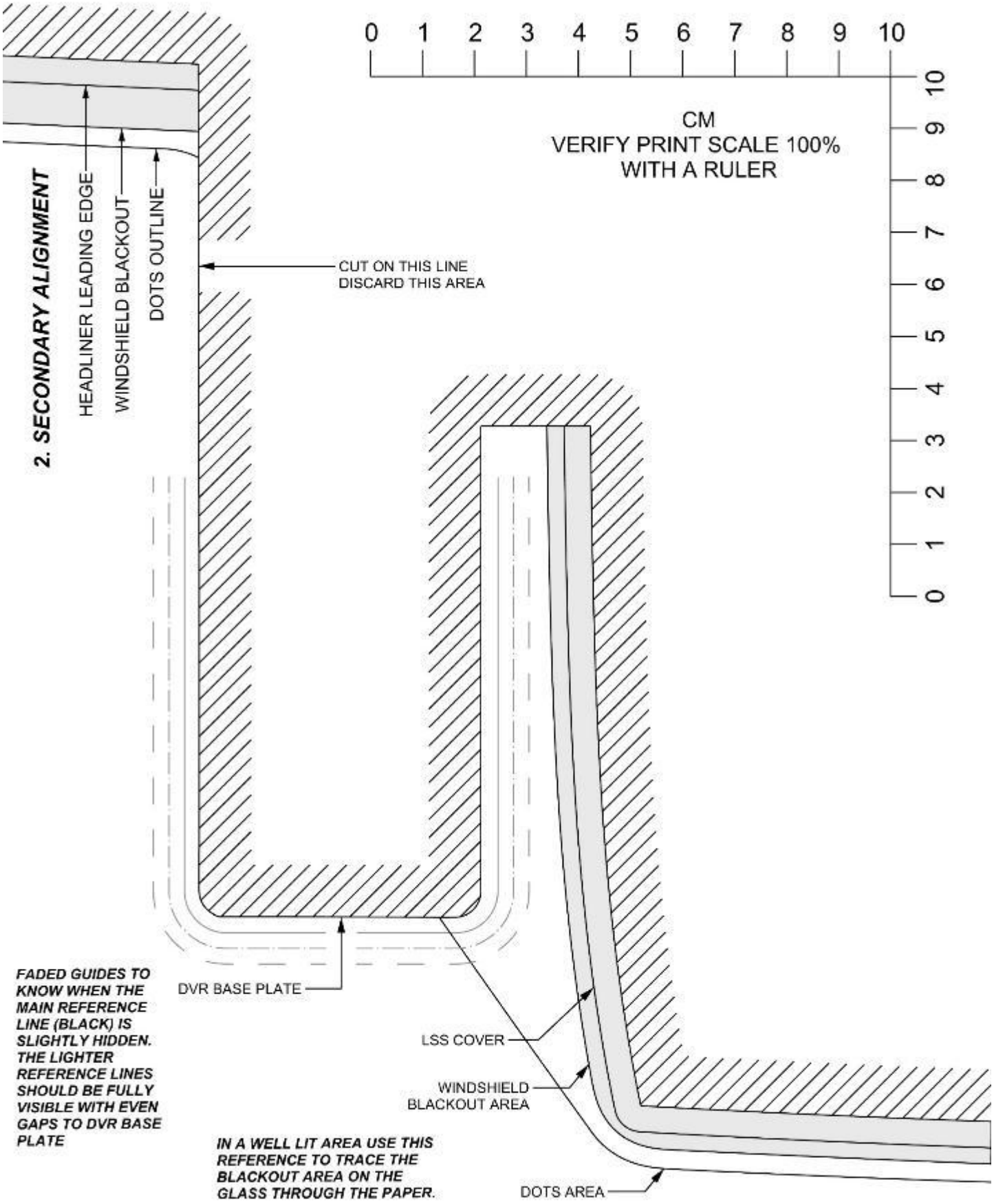
17. Replace Battery Cover Trim

Install the battery cover and floor liner (if equipped) back to their original position. (Fig 17-1)

18. 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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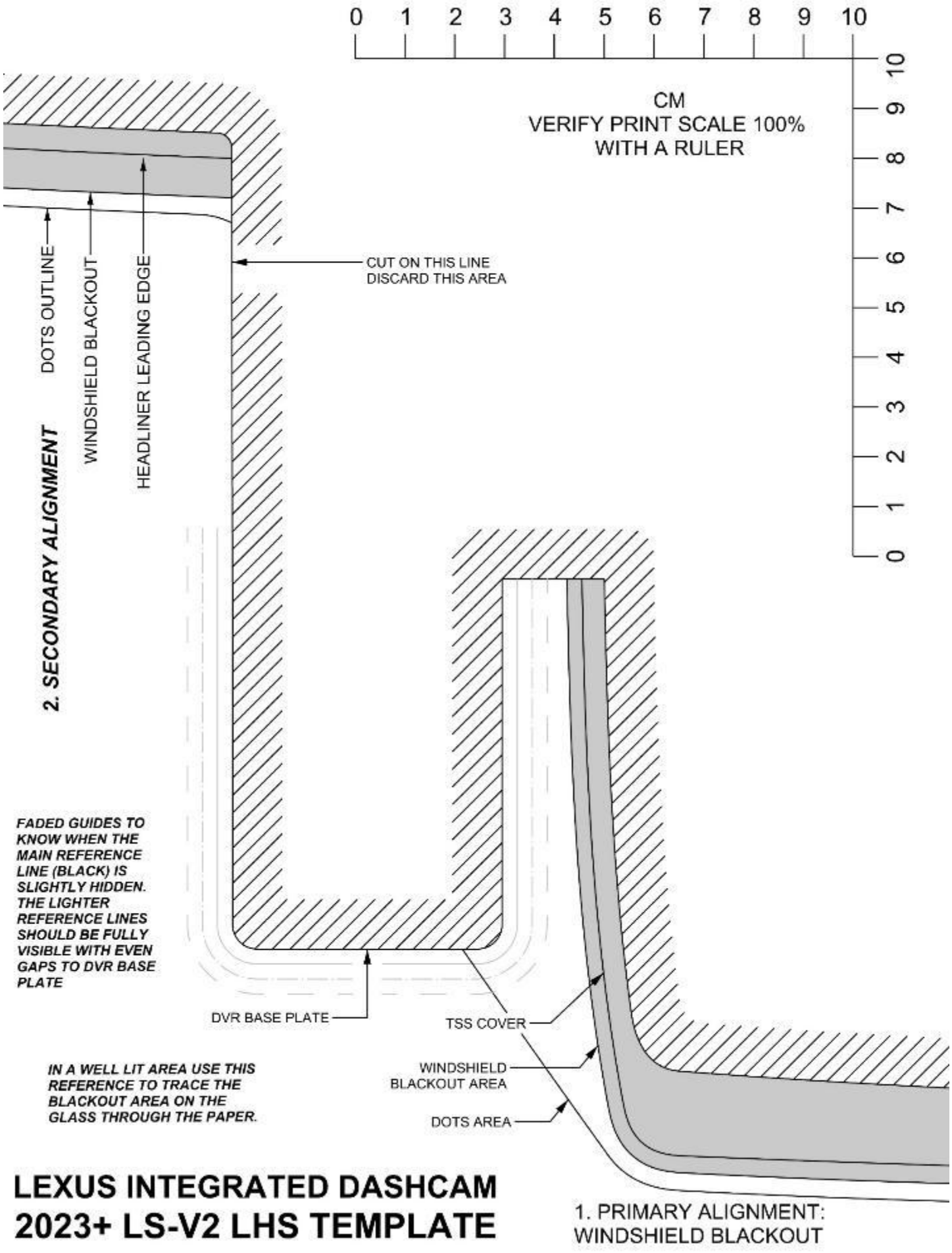


LEXUS INTEGRATED DASHCAM
2023+ LS-V1 LHS TEMPLATE

1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

Issue: J 10/26/2026

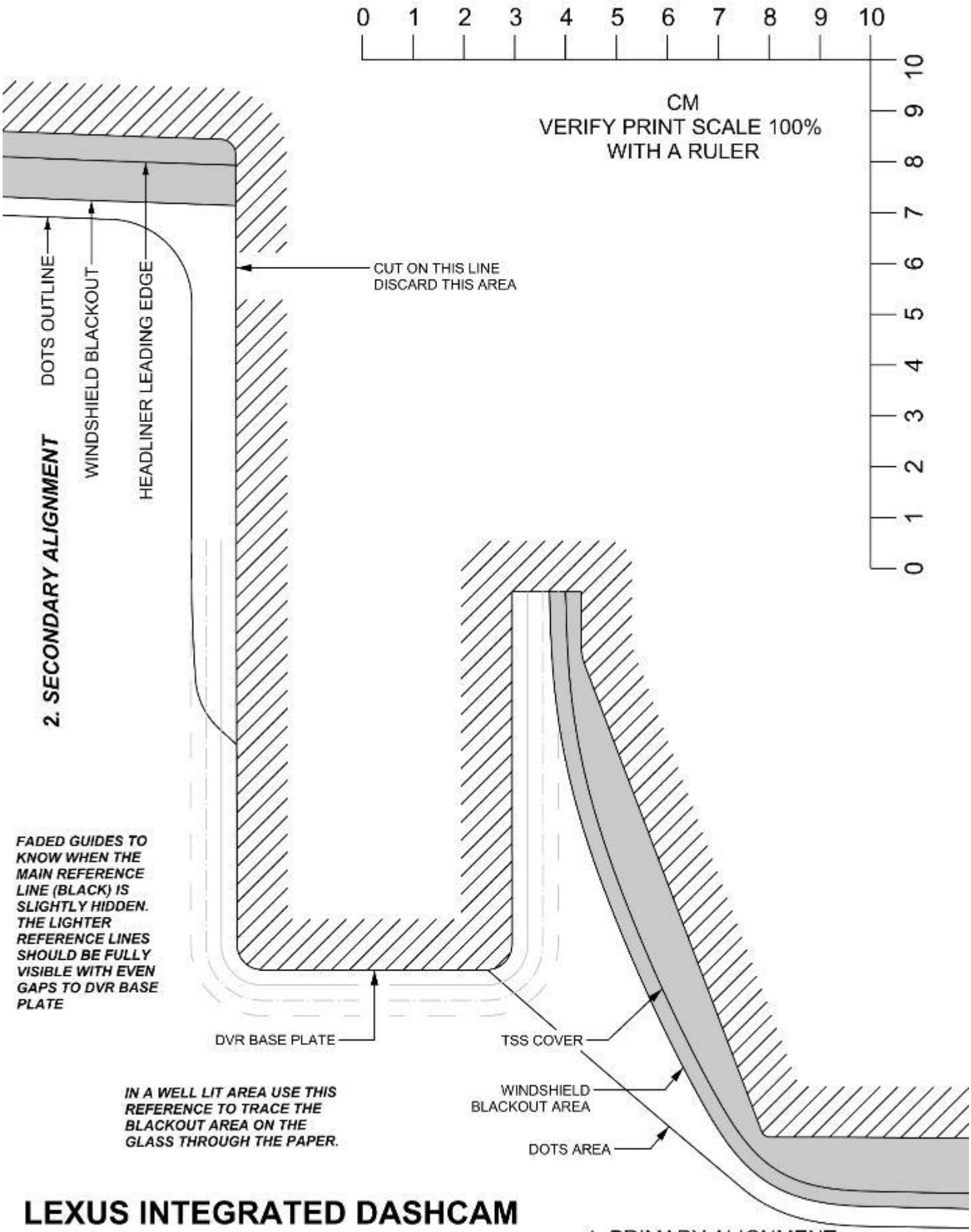
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LEXUS INTEGRATED DASHCAM
2023+ LS-V2 LHS TEMPLATE

Issue: J 10/26/2026

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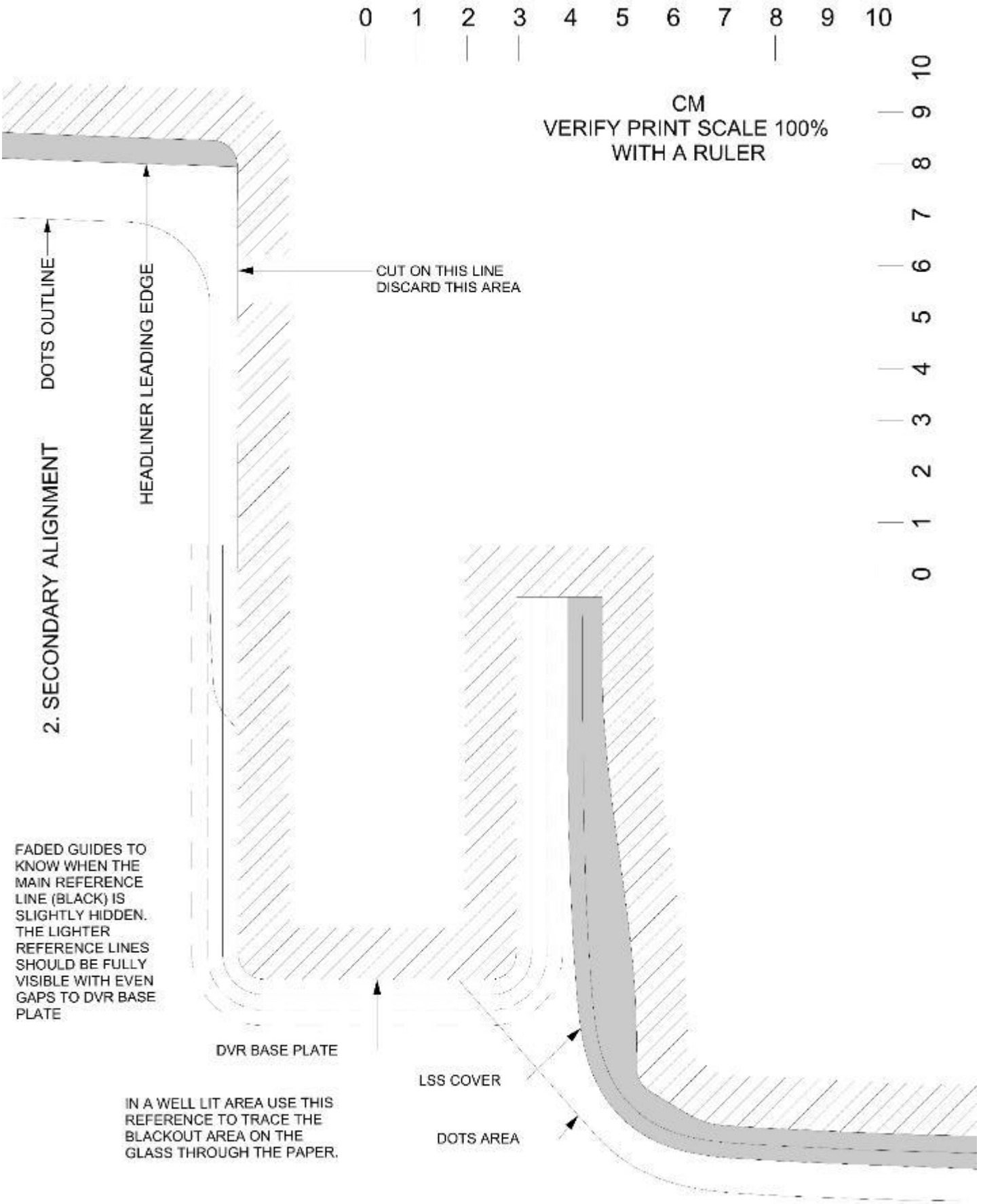


LEXUS INTEGRATED DASHCAM
2023+ LS-V3 LHS TEMPLATE

1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

Issue: J 10/26/2026

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LEXUS INTEGRATED DASHCAM
2023+ LS-V4 LHS TEMPLATE

1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

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Checklist - these points **MUST** be checked to ensure 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: PT949-76221 (Dashcam) Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	N/A	N/A

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
LX 22-0022 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0S** 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

All Models

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	N/A

*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	Up to 2 pcs	Roof Console **YELLOW** Clips if damage occurs during removal. P/N: 90467-09245
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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.

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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 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 Lexus dealer for a copy of this document.


Fig. 1-1

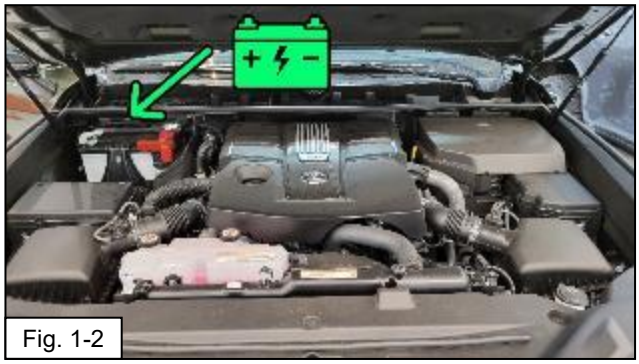

Fig. 1-2


Fig. 1-3

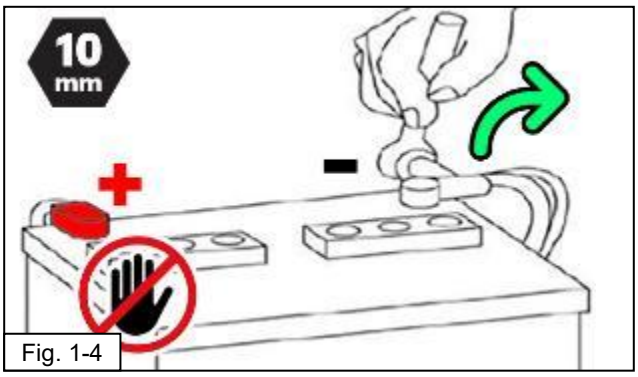


Fig. 1-4

1. Disconnect Battery

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).

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

(b) The 12V Battery in the Lexus LX is located in the engine bay, on the RHS in front of the windshield. (Fig. 1-1)

(c) Remove the battery cover to gain access to the vehicle battery (Fig. 1-1, 1-2)

(d) Disconnect the Negative Cable by loosening the 10 mm nut that clamps the connector to the battery post, shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-3, 1-4)

(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. If necessary, use something non-conductive to keep the cable away from the battery post. (Fig. 1-4).

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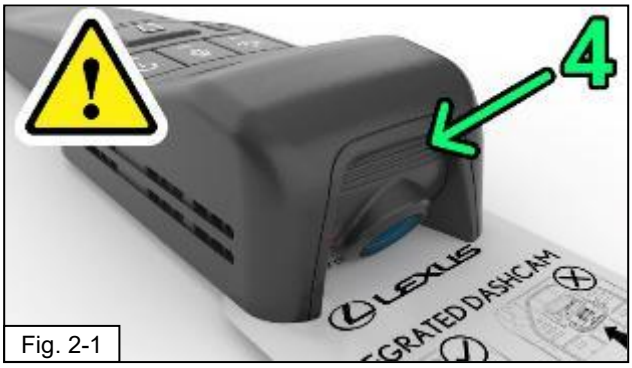


Fig. 2-1

2. Kit Preparation

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

(b) Confirm Camera Angle Position – 4 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 available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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Fig. 4-1

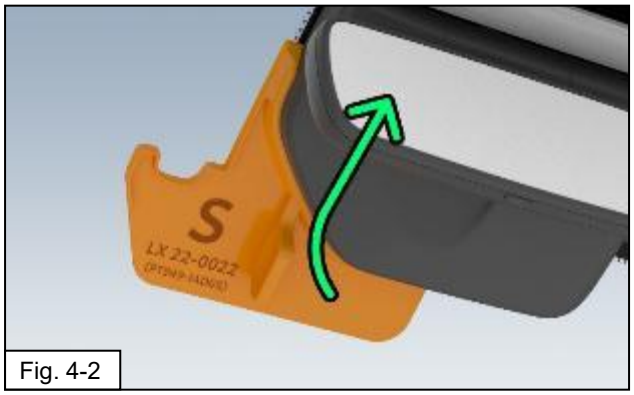


Fig. 4-2



Fig. 4-3

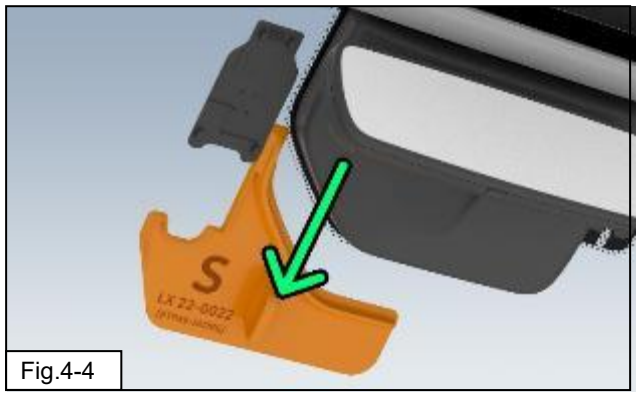


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use the 3D hard template "**S**" with the part number **"LX 22-0022"** *(Legacy: **PT949-IAD0S**)* (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 (**LX 232-0022**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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 LSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

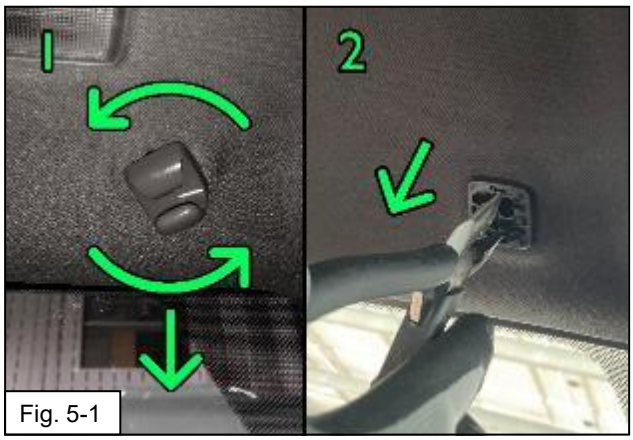


Fig. 5-1

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 LSS 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

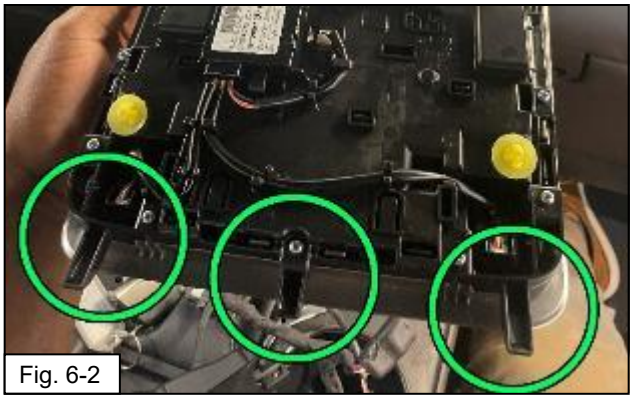
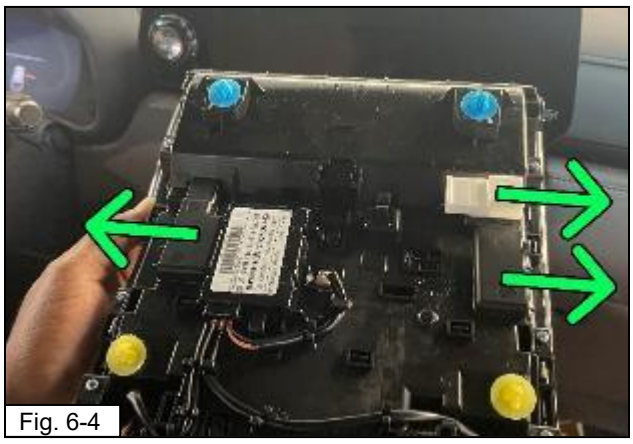

Fig. 6-2



Fig. 6-3


Fig. 6-4

6. Remove Roof Map Light Console

(a) Adjust the mirror position so it will not be damaged by the console removal.

(b) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 6-2)

NOTE: Do NOT start from the rear clips.

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

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

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

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

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

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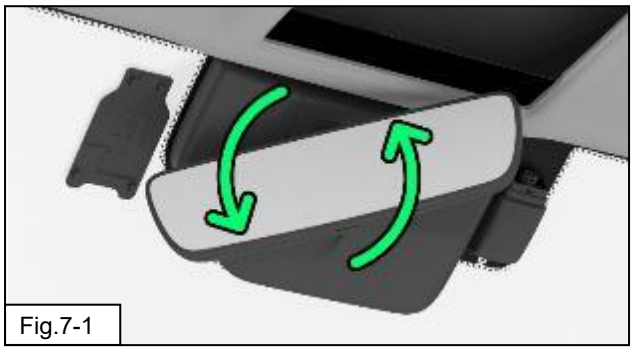
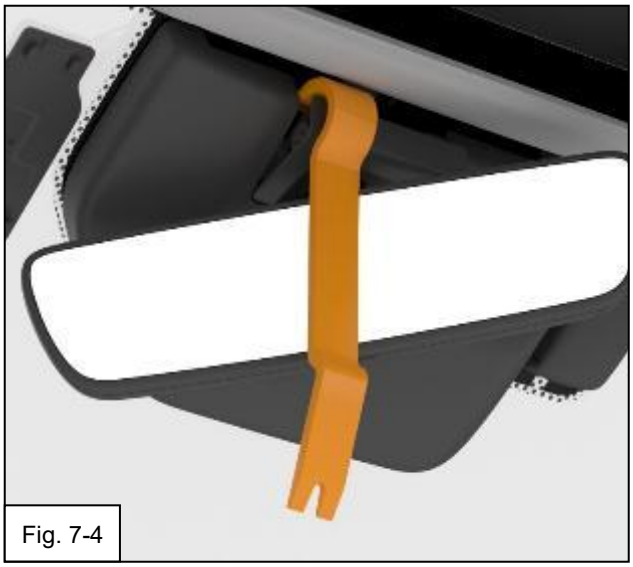

Fig.7-1



Fig. 7-2



Fig. 7-3


Fig. 7-4

7. Remove the LSS Cover

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

(b) Holding the LSS 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 LSS 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, with the right shaped trim panel tool you may be able to pry the smaller cover off first. (Fig. 7-4)

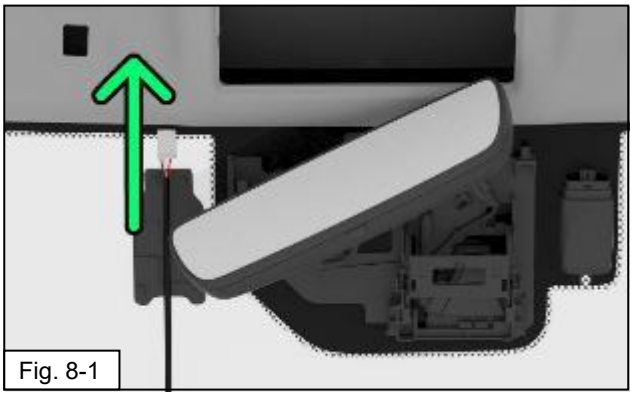
(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks. (Fig. 7-3)

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

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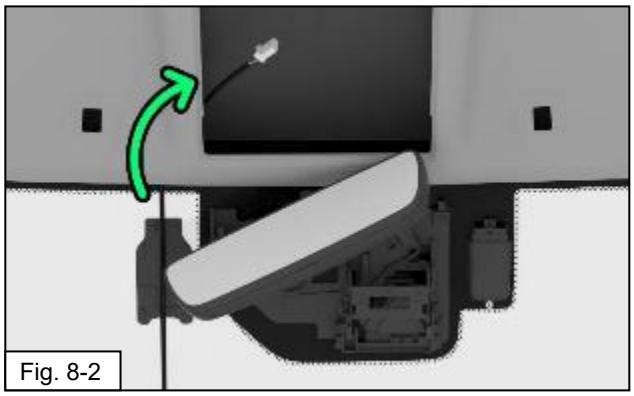

Fig. 7-5

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


Fig. 8-1

8. 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. 8-1)


Fig. 8-2

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 8-2)


Fig. 8-3

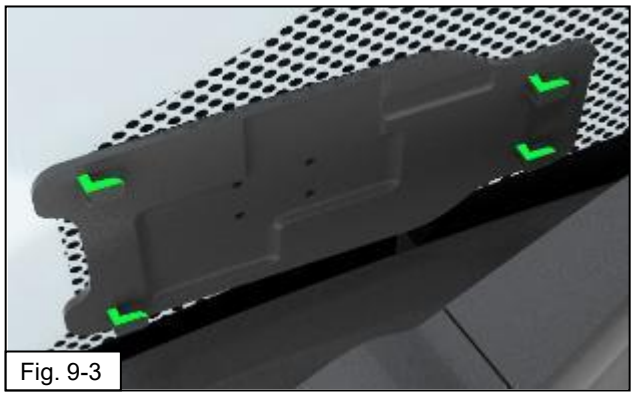
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 8-3)

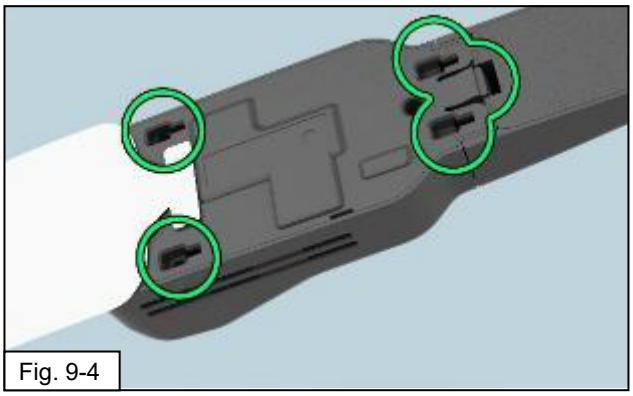
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Fig. 9-1


Fig. 9-2


Fig. 9-3


Fig. 9-4

9. 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.

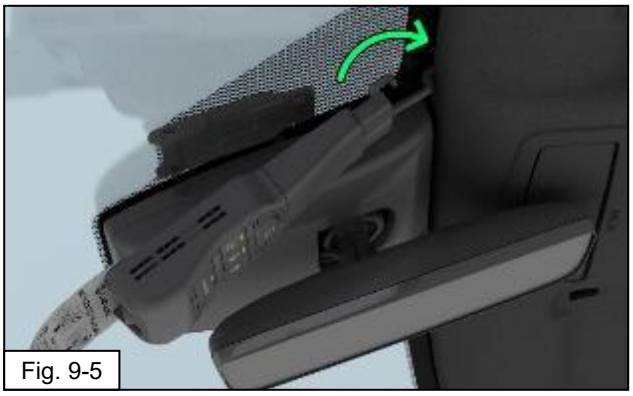
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 9-1)

(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. 9-2)

NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 9-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 9-4)

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Fig. 9-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 9-5)


Fig. 9-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 9-6)


Fig. 9-7

(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. 9-7)


Fig. 9-8

(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. 9-8)

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Fig. 10-1

10. Connect the Power Harness

(a) Locate the Dashcam Pre-wire harness connector secured on the Driver's side of the Map Light Console opening. It is the white 5 pin connector that will appear to be unused. (Fig. 10-1)


Fig. 10-2

(b) Connect the Dashcam Pigtail harness to this pre-wire connector, ensuring there are no obstructions preventing bundling of the harness. (Fig.10-2)


Fig. 11-1

11. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 11-1)

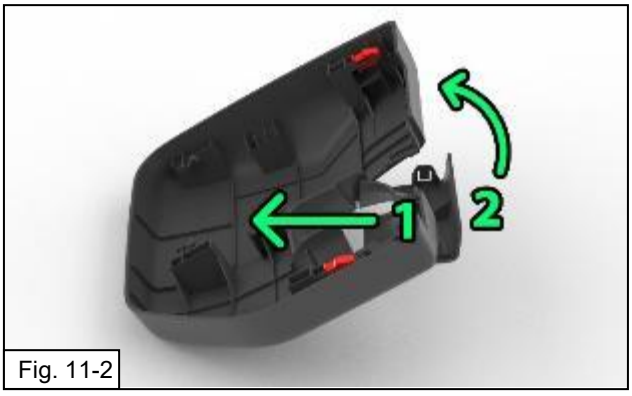


Fig. 11-2

(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 11-2 – shown off the vehicle for picture clarity)

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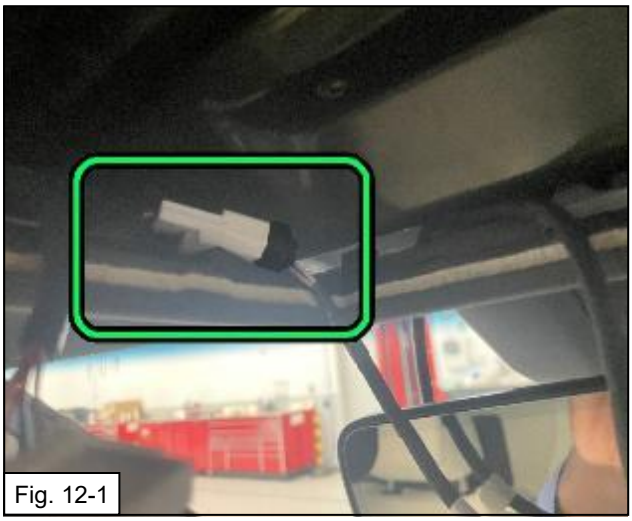
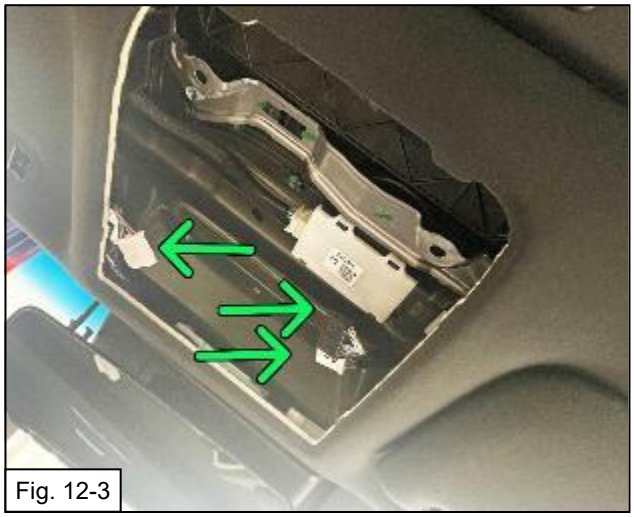

Fig. 12-1


Fig. 12-2


Fig. 12-3

12. 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.

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.

(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 / 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. 12-2)

(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. 12-3)

(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. 13-1



Fig. 13-2

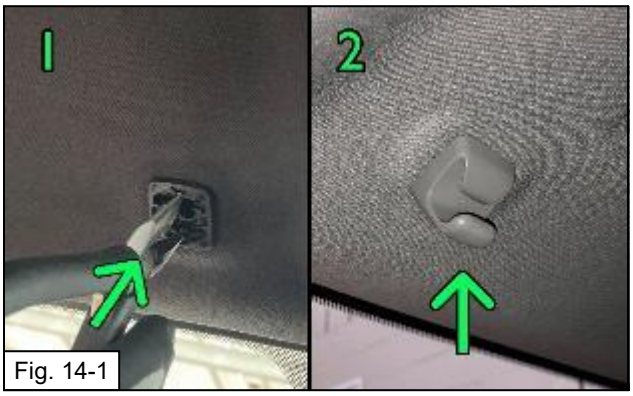


Fig. 14-1

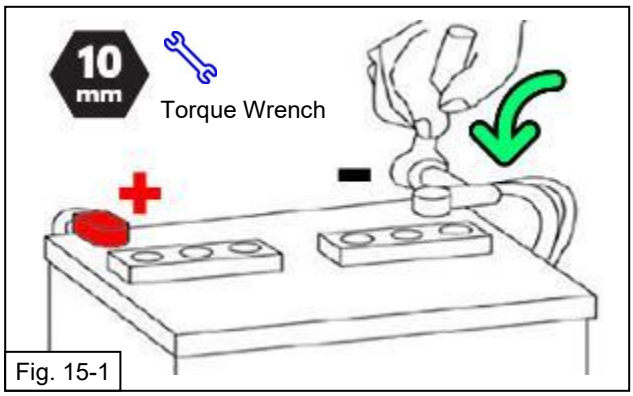


Fig. 15-1

13. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 13-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 13-2)

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

14. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 14-1)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 14-1)

15. Reconnect Vehicle Battery

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

(b) Torque to 5.4 N•m (48 in•lbsf)

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

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

(d) Replace any Battery cover trim removed earlier in accessing the battery.

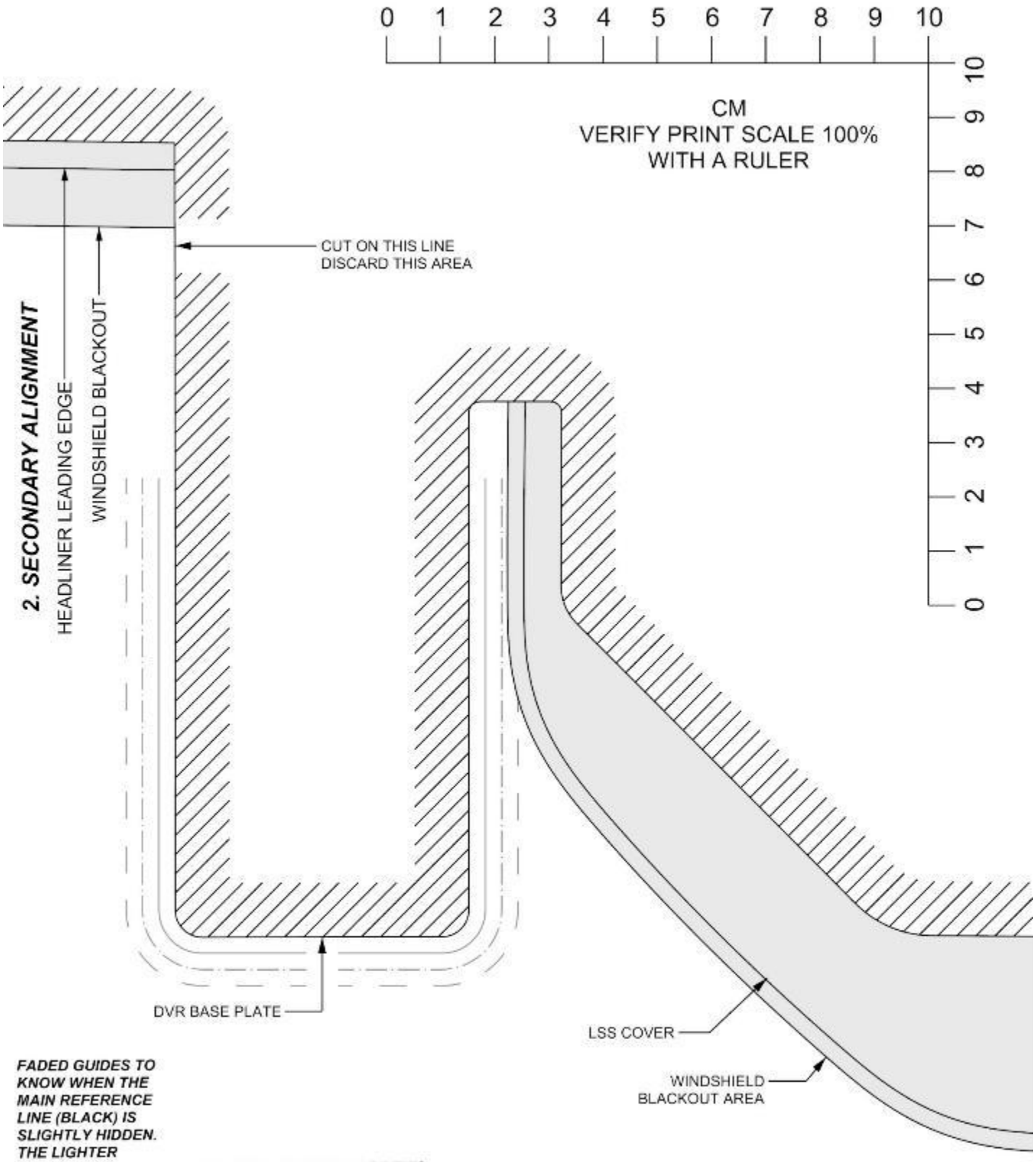
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17. Owner's Manual



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

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LEXUS INTEGRATED DASHCAM
2022+ LX LHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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	Confirm standard lighting functions work properly.
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal.	
☐ 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: **PT949-76221 (Dashcam)**
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
NX 23-0017 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0C** 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

All Models with EC mirror

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	Y-Harness (PT949-48210)

*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: 90467-09245
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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.

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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 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 Lexus dealer for a copy of this document.


Fig. 1-1

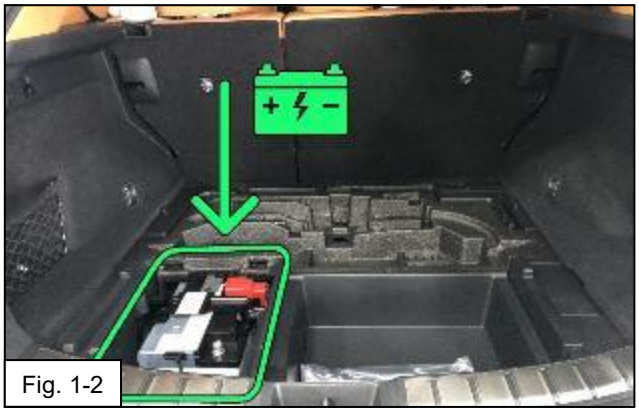

Fig. 1-2


Fig. 1-3

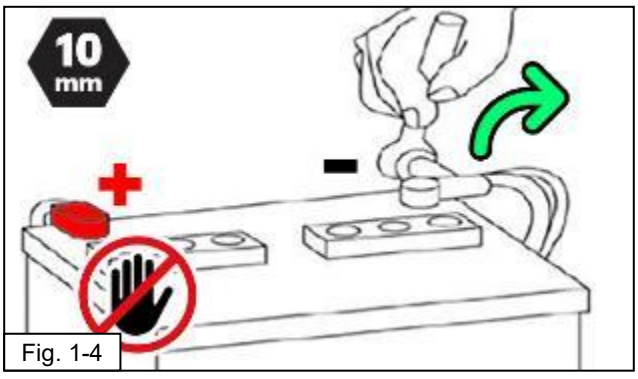


Fig. 1-4

1. Disconnect Battery

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).

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

(b) The 12V Battery in the Gas powered Lexus NX is located in the engine bay. (Fig. 1-1)

(c) The 12V Battery in the Hybrid powered Lexus NX is located on the left side of the trunk, under the load floor. First lift the load floor cover, then remove the battery cover to find the battery underneath it. (Fig. 1-2)

(d) Disconnect the Negative Cable by loosening the 10 mm nut that clamps the connector to the battery post, shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-3)

(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. If necessary, use something non-conductive to keep the cable away from the battery post. (Fig. 1-4).

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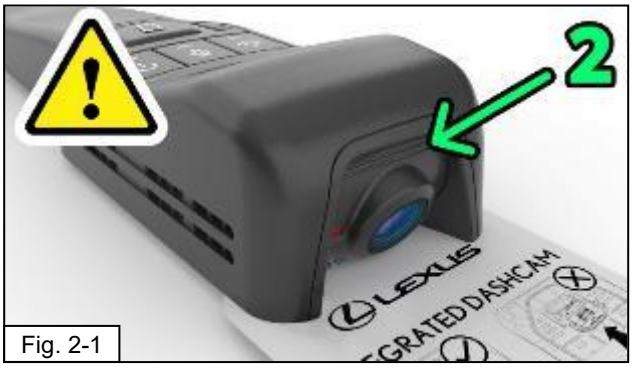


Fig. 2-1

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)

(c) If this is not correct, please see adjustment instructions available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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Fig. 4-1

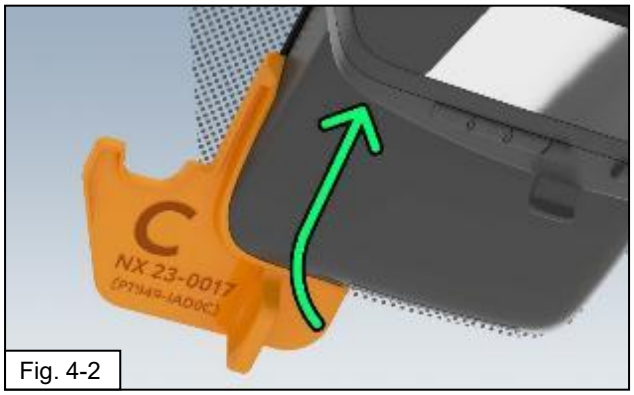


Fig. 4-2

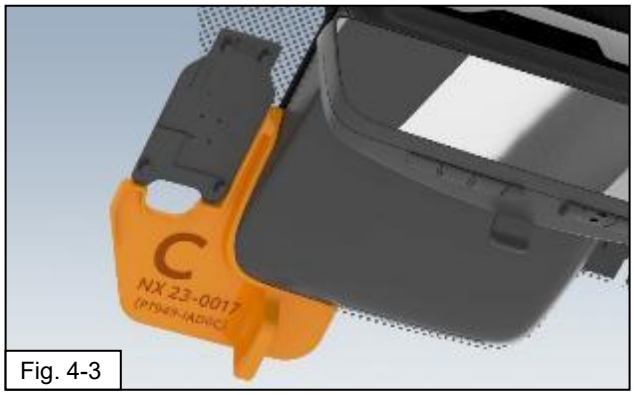


Fig. 4-3

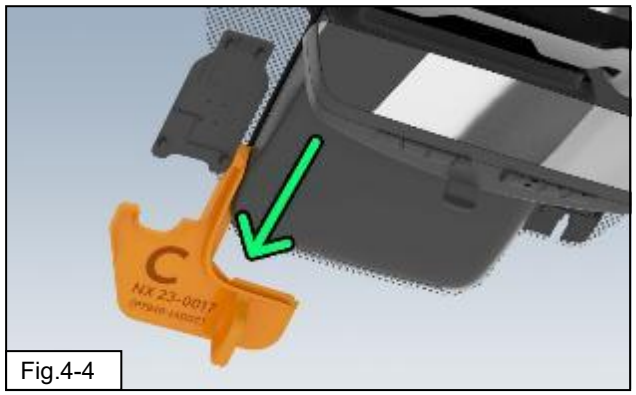


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use the 3D hard template "**C**" with the part number **"NX 23-0017"** *(Legacy: **PT949-IAD0C**)* (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 (**NX 23-0017**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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 LSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

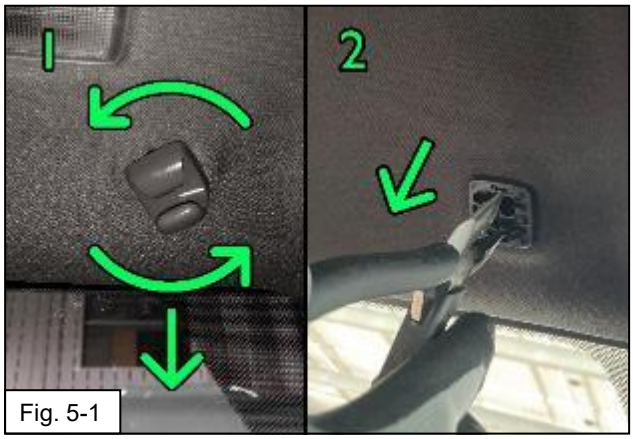


Fig. 5-1

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 LSS 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

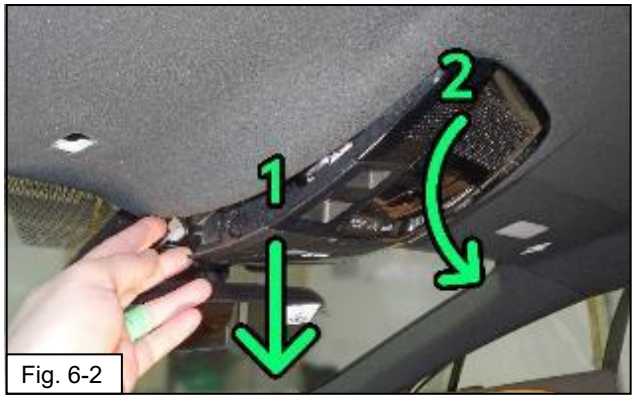


Fig. 6-2

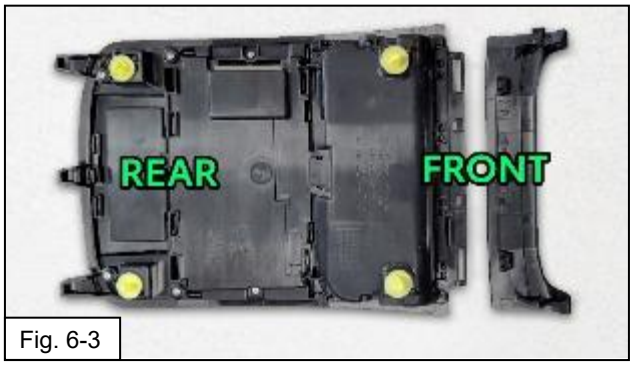
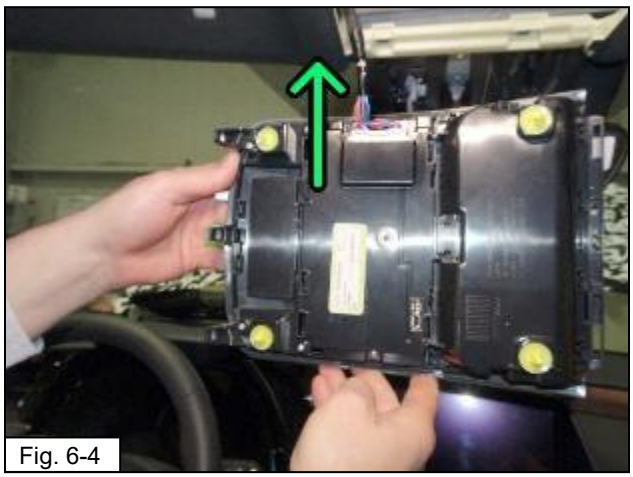


Fig. 6-3


Fig. 6-4

6. Remove Roof Map Light Console

(a) Before removing the Map Light Console, there is a trim between the Console and LSS Cover that must be removed first. Start by using a hooked / pry trim removal tool ONLY on the **Driver's Side** to pull down on the small trim piece, then once unclipped, rotate it down to unhook the passenger side. (Fig. 6-1)

NOTE: There is a hook tab on the passenger side that will be damaged if the passenger side is removed first.

(b) Adjust the mirror position so it will not be damaged by the console removal.

(c) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 6-2)

NOTE: Do NOT start from the rear clips.

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

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

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

(d) Once fully detached, disconnect the wire harness from the driver's side of the roof console (Fig. 6-4) and place the console in a safe place to avoid damage.

(e) Inspect the console clips and replace if damaged (**P/N: 90467-09240, 4 PCS**)

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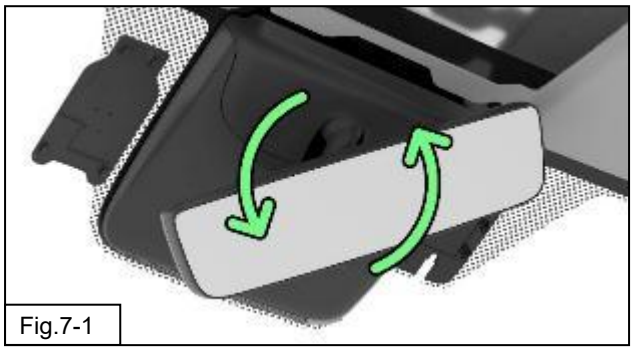

Fig.7-1



Fig. 7-2

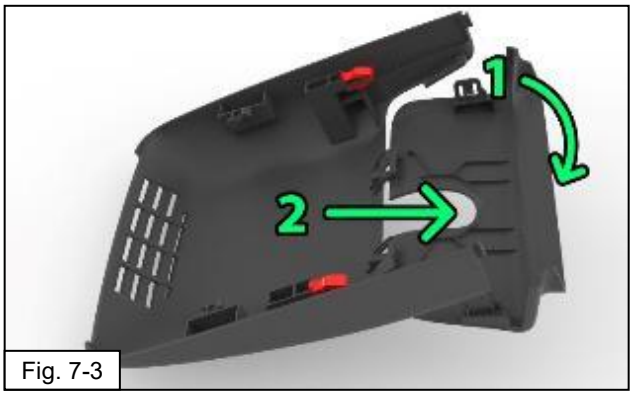


Fig. 7-3


Fig. 7-4

7. Remove the LSS Cover

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

(b) Holding the LSS 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 LSS 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, with the right shaped trim panel tool you may be able to pry the smaller cover off first. (Fig. 7-4)

(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks. (Fig. 7-3)

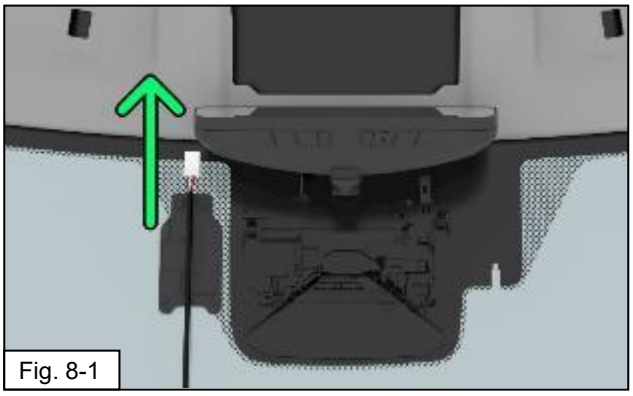
(4) Hold the LSS main cover while removing the smaller mirror mount cover.

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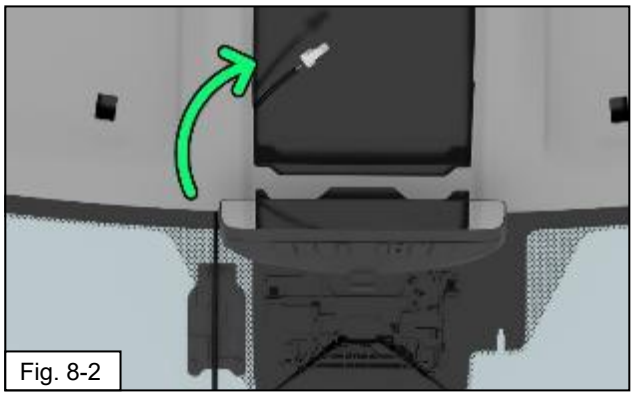

Fig. 7-5

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


Fig. 8-1

8. 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. 8-1)


Fig. 8-2

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 8-2)


Fig. 8-3

(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. 8-3)

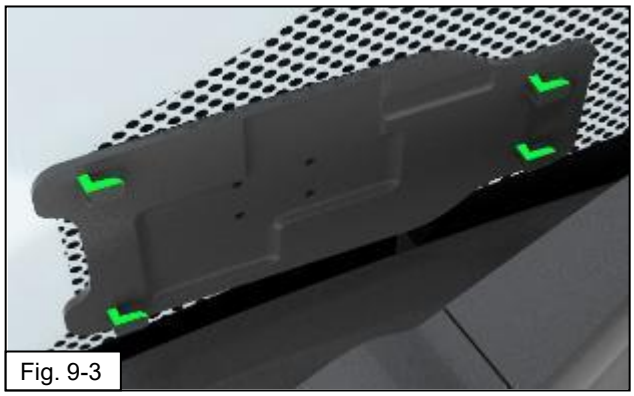
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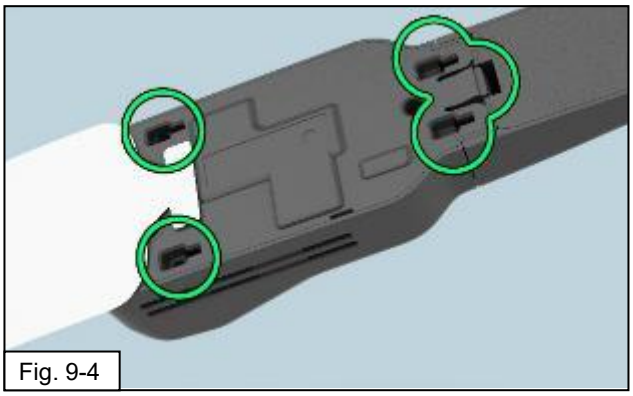
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Fig. 9-1


Fig. 9-2


Fig. 9-3


Fig. 9-4

9. 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.

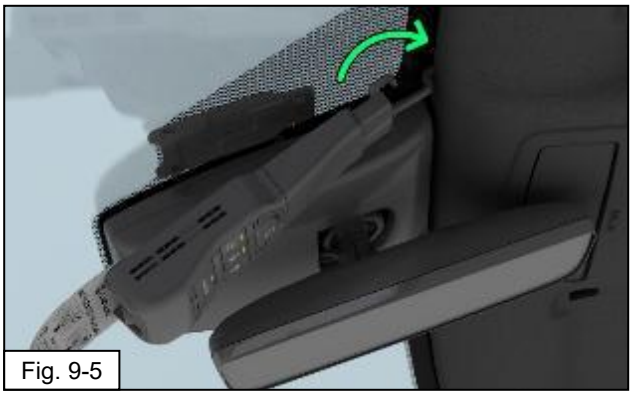
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 9-1)

(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. 9-2)

NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 9-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 9-4)

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Fig. 9-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 9-5)


Fig. 9-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 9-6)


Fig. 9-7

(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. 9-7)


Fig. 9-8

(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. 9-8)

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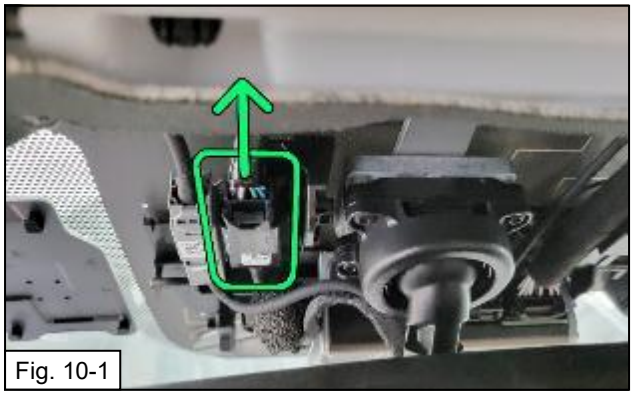
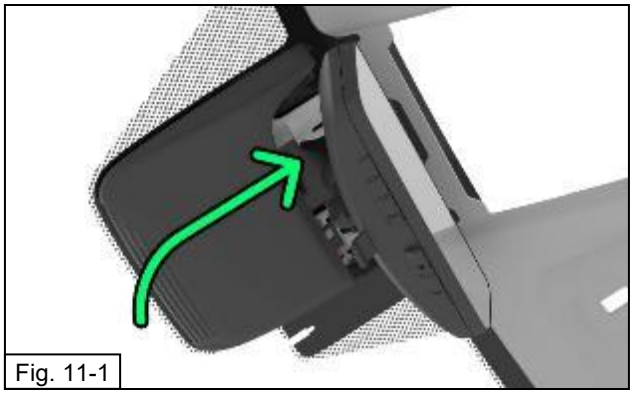

Fig. 10-1



Fig. 10-2


Fig. 11-1

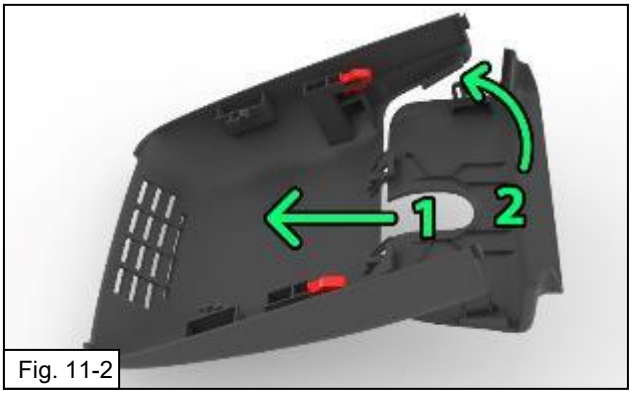


Fig. 11-2

10. Install the Y-Harness

(a) Locate the power mirror harness connector above the mirror to the driver's side. It is the black 10 pin connector, to the inboard position on the driver's side of the mirror mount. Unplug the connector. (Fig. 10-1)

(b) Connect the Y-Harness mating female connector **(1)** to the vehicle side harness that was unplugged above (Fig.10-2)

(c) Insert the male connector **(2)** into the original position on the mirror assembly (Fig. 10-2).

(d) Route Dash Cam connector **(3)** of the Y-Harness above the plastic frame into the map light console space and connect the Harness to the Dash Cam pig tail. (Fig. 10-2).

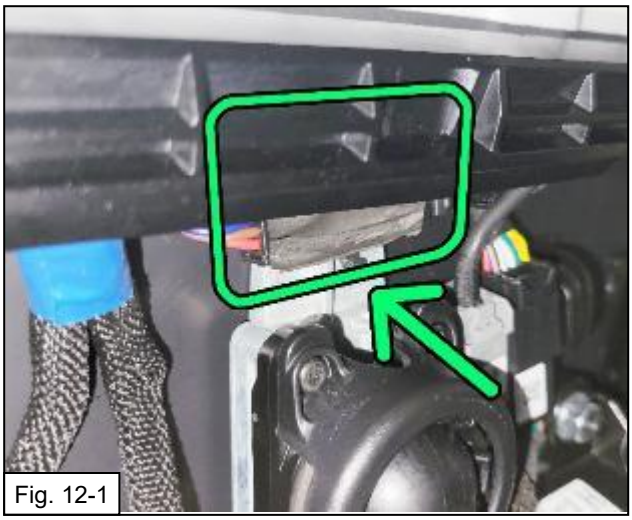
11. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 11-1)

(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 11-2 – shown off the vehicle for picture clarity)

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Fig. 12-1

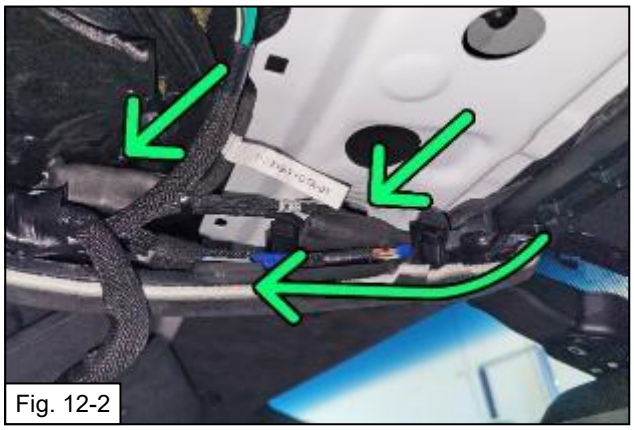

Fig. 12-2


Fig. 12-3

12. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the connectors of the Y-Harness to Vehicle and Dash Cam to Harness have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 12-1)

(b) Route the Y-harness above the plastic frame at the front of the headliner towards the driver's side. (Fig 12-1, 12-2)

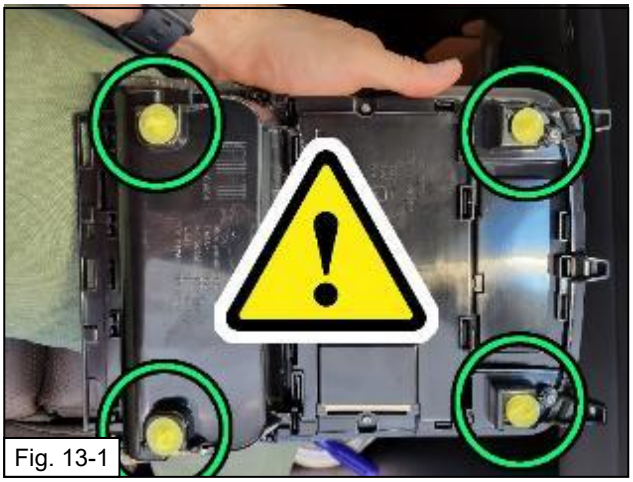
(c) Secure the Dashcam harnesses and Fuse Holders against the existing harnesses on the driver's side of the map light / sunglasses pocket opening. Loop and bundle them as required. Arrange this in a way that does not obstruct the console being reinstalled. Tighten the zip tie and snip off the excess, and then **orient the zip tie to have the block in the upright position to prevent noises from contact with the overhead console.** (Fig. 12-2)

(d) 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. 12-3)

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

(f) **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. 13-1

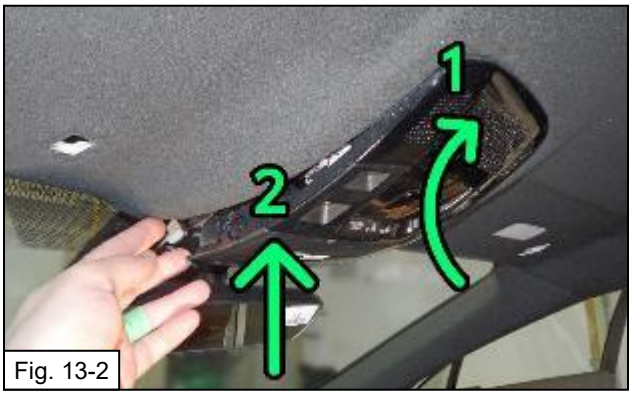


Fig. 13-2

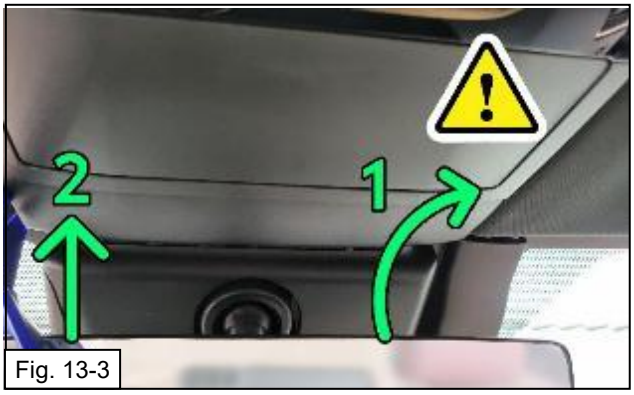


Fig. 13-3

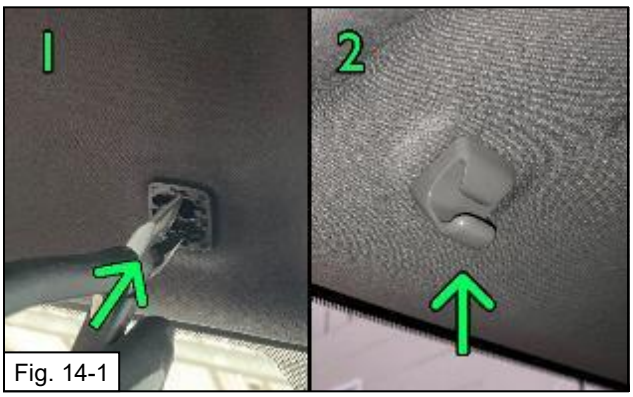


Fig. 14-1

13. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 13-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 13-2)

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

(e) Reinstall the trim piece between the Map Light Console and the LSS system by first hooking in the Passenger Side, and then pushing up with the driver's side. (Fig: 13-3)

(f) **Note: Be careful aligning the hooks and clips of the small trim piece to avoid damage**

14. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 14-1)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 14-1)

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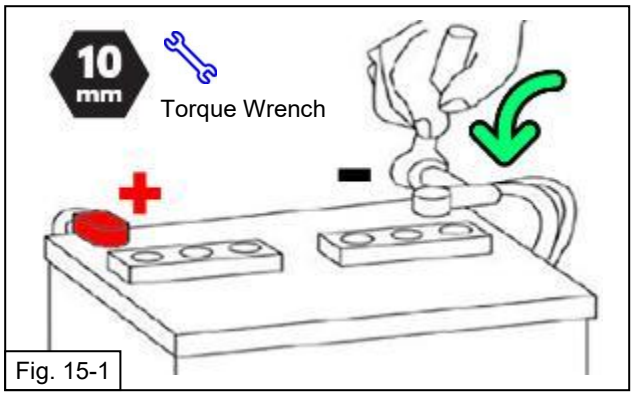


Fig. 15-1


Fig. 16-1

15. Reconnect Vehicle Battery

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

(b) Torque to 5.4 N•m (48 in•lbsf)

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

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

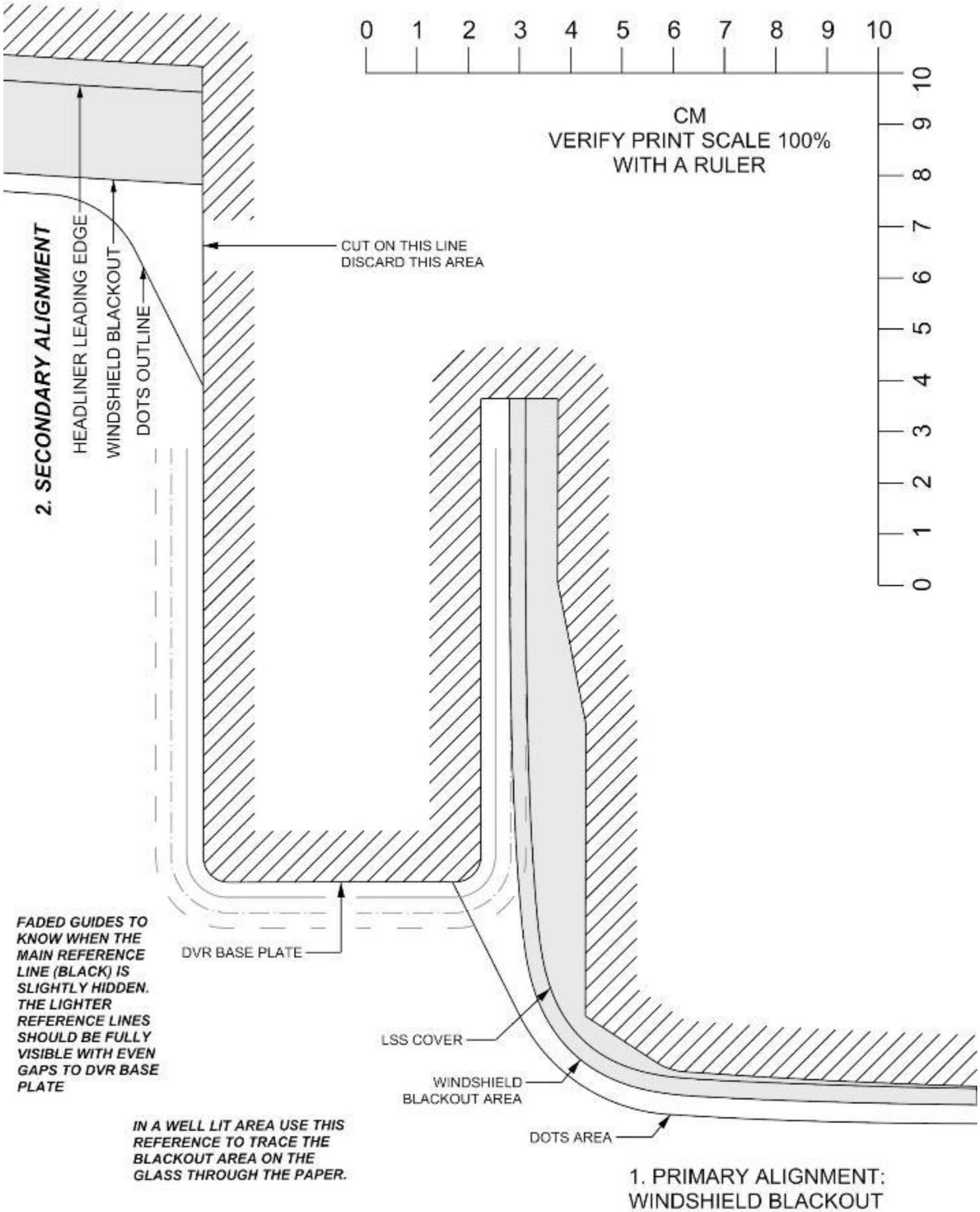
17. Replace Battery Cover Trim

If working on the Hybrid, re-install the battery cover and floor liner (if equipped) back to their original position.
(Fig 16-1)

18. 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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LEXUS INTEGRATED DASHCAM
2023+ NX LHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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: PT949-76221 (Dashcam)
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
RC 23-0027 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0Z** 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
1.5 mm Allen Key	For Camera Adjustment
Special Chemicals	**Notes**
VDC Approved Cleaner	**To Clean Windshield**

General Applicability

All Models with EC mirror

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	Y-Harness (PT949-48210)

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

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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 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 Lexus dealer for a copy of this document.


Fig. 1-1


Fig. 1-2

1. Disconnect Battery

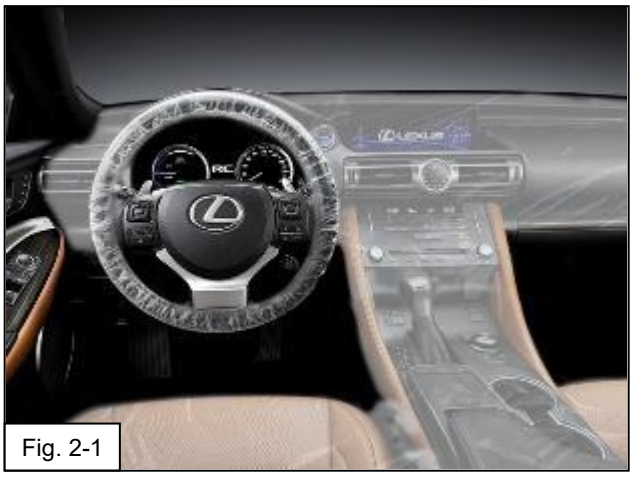
(a) Protect the fender / bumper before starting.

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

(c) Remove the vehicle's 12V battery negative terminal (Fig. 1-2).

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

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


Fig. 2-1

2. Vehicle Protection

(a) Apply Vehicle Protection to front seats, dashboard, and center console. (Fig. 2-1)

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Fig. 3-1

3. 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. 3-1, Note: Camera is upside down in the image)

(c) If this is not correct, please see adjustment instructions (Step 4) **NOTE:** Do not try to force it as there is a hidden lock screw on each side.

4. Camera Angle Adjustment (IF REQUIRED)

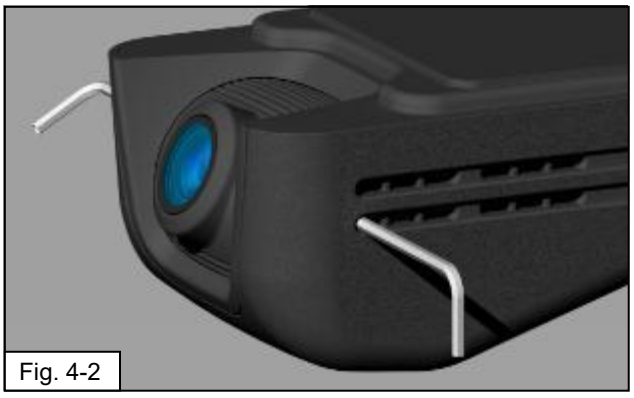
In case camera angle adjustment does not match what is intended for this vehicle (2 visible recessed lines under the lens) this angle can be adjusted as follows (Fig. 4-1)



Fig. 4-1

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. 4-2).


Fig. 4-2

(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 **2** recessed rib lines below the camera lens to indicate the correct view angle. (Fig. 4-3)

(c) Once the angle is corrected, retighten the locking screws on each side, then reconfirm the **2** recessed rib lines to

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ensure the camera has not moved while tightening the locks (Fig. 4-3).

(d) **Optional (DIO only):** Use the Live View feature of the Lexus 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.**

5. Remove Visor Mount Clips and Base

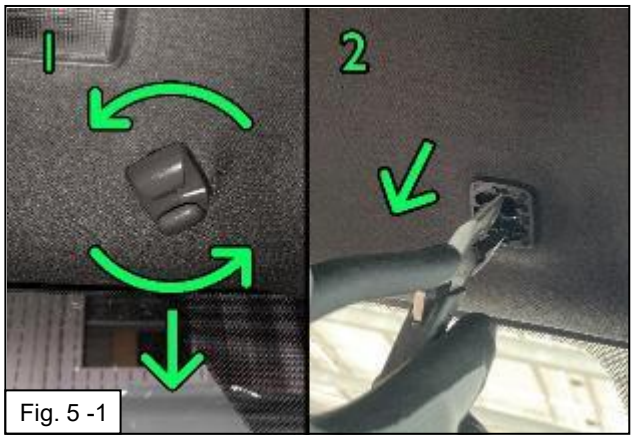


Fig. 5 -1

(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)

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

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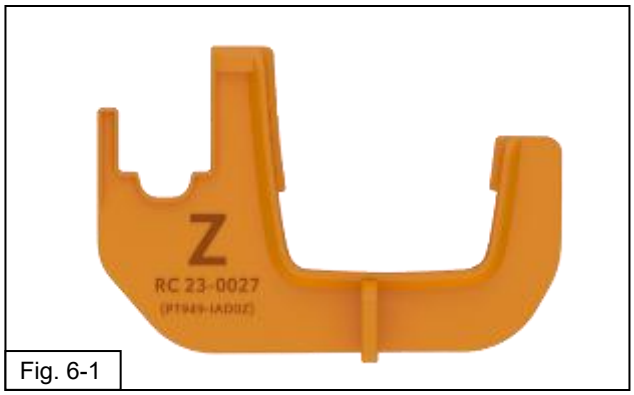
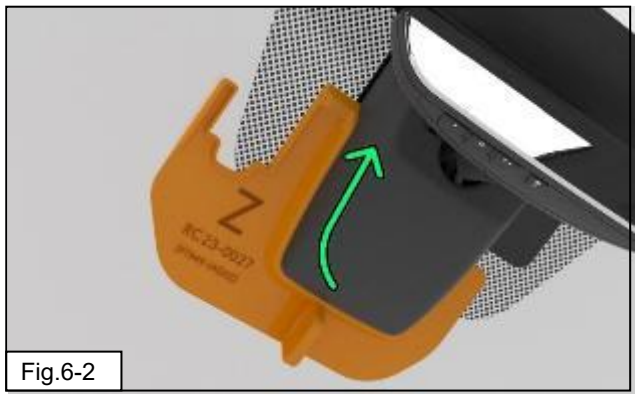
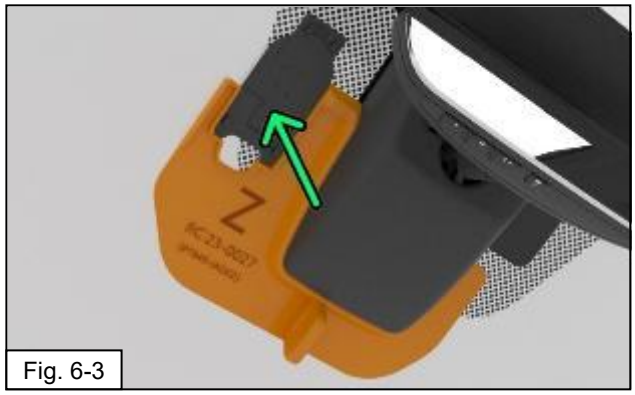
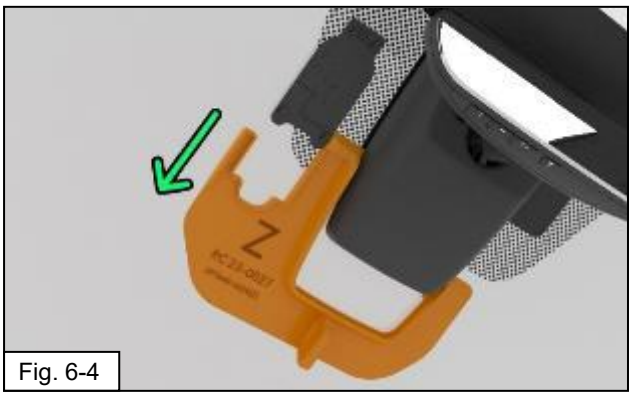


Fig. 6-1


Fig.6-2


Fig. 6-3


Fig. 6-4

6. 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 "**Z**" with the part number **"RC 23-0027"** *(Legacy: **PT949-IAD0Z**)* (Fig. 6-1) 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 LSS cover.

(d) Insert the 3D Template (**RC 23-0027**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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. 6-2)

(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. 6-3)

(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 LSS cover. (Fig. 6-4)

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Fig. 6-5



Fig. 6-6

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 LSS cover, align to the indicated line and affix the template to the windshield using tape. (Fig. 6-5)

(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. 6-6)

(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.

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Fig. 7-1

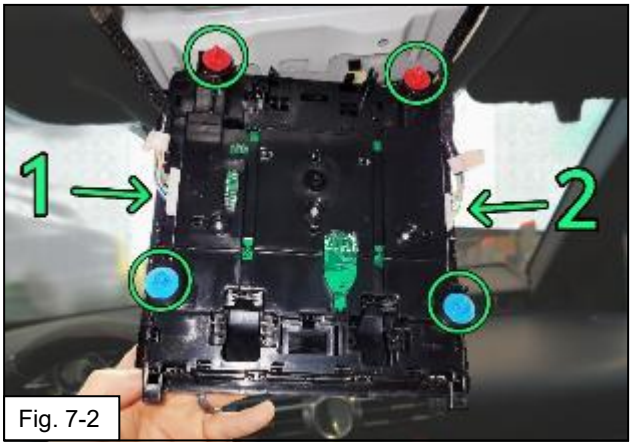


Fig. 7-2

7. 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 again pull down to unhook the 2 clips at the rear edge (Fig. 7-1)

(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 clips appear in the image to better understand the removal process. (Fig. 7-2)

(4) Once fully detached, there are 2 wire harness connectors on this console, disconnect the wire harness connectors from the roof console and place the console in a safe place to avoid damage. (Fig. 7-2)

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

Inspect the console clips and replace if damaged (P/N: 90467-10167, 2 PCS, BLUE)

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8. Remove the LSS Cover

Removing the LSS cover allows the headliner to move easily to pass the wire harnesses through the leading edge.

(a) For better access, working from the passenger seat will make removing the LSS cover easier.



Fig.8-1

(b) 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 LSS cover. Take care not to scratch the headliner in the process (Fig. 8-1)

(1) Pull down on the upper rearward edge of the cover plate (closest to the headliner) to disengage the clips.

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

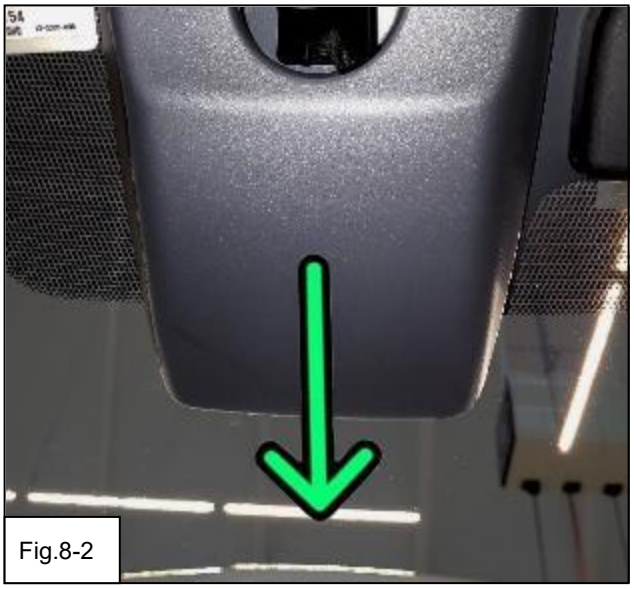


Fig.8-2

(c) Slide the LSS cover down towards the base of the windshield / towards the wiper cowl area to remove it. (Fig 8-2)

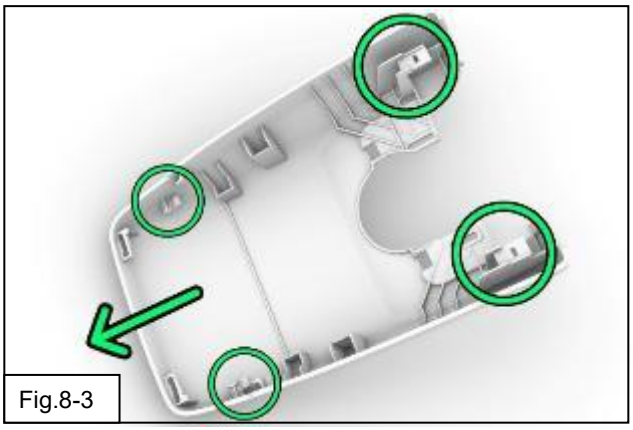


Fig.8-3

(d) Note that the clips point towards the headliner and see the image to better understand the clips. (Fig 8-3)

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Fig.8-4

(e) Place the LSS cover face up in a safe place to avoid scratches while continuing to work on the vehicle. (Fig. 8-4)

9. Install the Y-Harness

(a) Locate the factory Mirror Harness behind the LSS cover and disconnect the mirror power harness in on the release tab. The mirror harness is a 10-pin connector, outboard to the passenger side. (Fig 9-1)

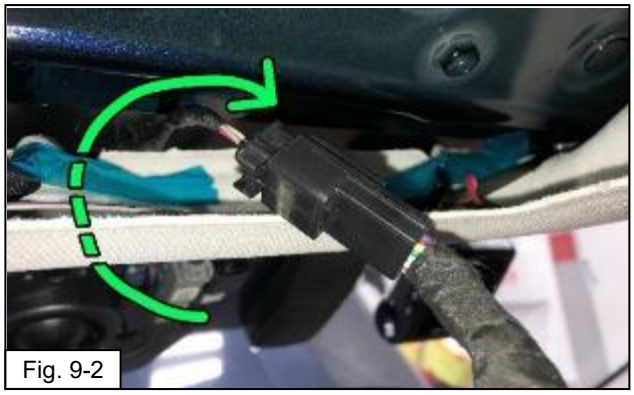

Fig. 9-1

(b) Confirm that the Y-Harness Part Number is **PT949-48210.**

(c) Install the Y-harness between the mirror and the vehicle mirror wire harness connector.

(1) Gently pull the vehicle's Power Mirror connector back inside the Map Light Console Area (Fig. 9-2)

(2) Insert the male mirror connector into the Y-Harness black female connector. (Fig. 9-2)


Fig. 9-2

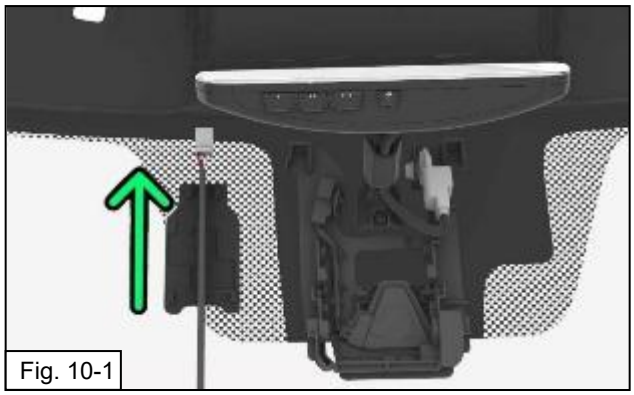
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Fig. 9-3

(d) After connecting, wrap the connector with the supplied foam tape, to insulate the connector from rattles.

(e) Gently feed the black Y-Harness male connector back to the LSS area and insert into the female mirror connector affixed to the mirror base. (Fig.9-3)

(f) Pull the remaining slack harness back into the headliner / map light console area as per the image.

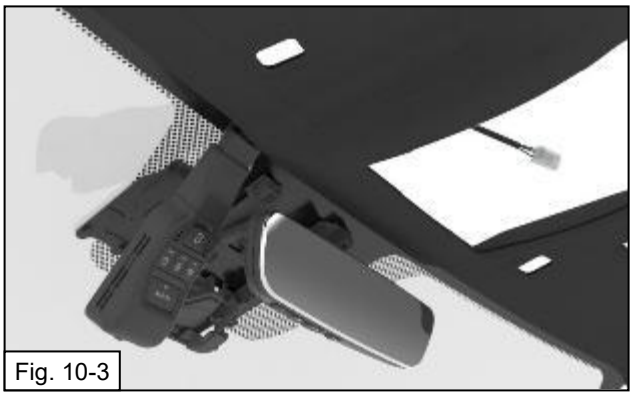

Fig. 10-1

10. 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. 10-1)


Fig. 10-2

(b) Route the Dash Cam pigtail through the notch or a similar area, and into the headliner. Take care not to crease the headliner in the process (Fig. 10-2)

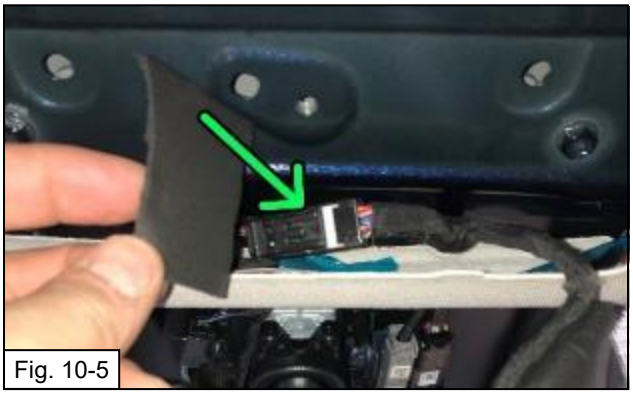

Fig. 10-3

(c) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 10-3)

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Fig. 10-4

(d) Connect the Dashcam pigtail harness to the newly fitted Y-harness that was fitted in step 7 (Fig. 10-4).


Fig. 10-5

(e) Apply the supplied Foam Tape to insulate the connectors from rattles. (Fig. 10-5)

11. 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. 11-1)

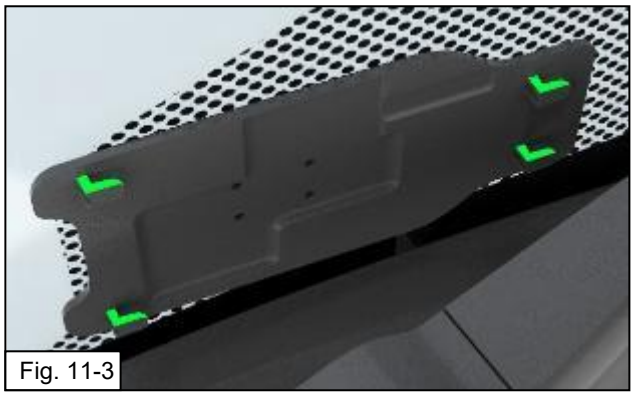


Fig. 11-1

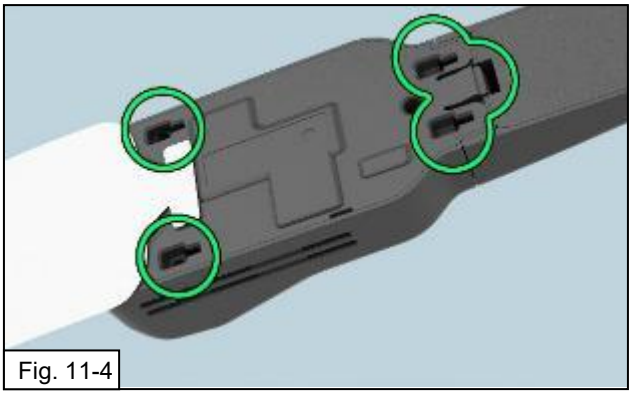
(a) **IMPORTANT: DO remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 11-2)


Fig. 11-2

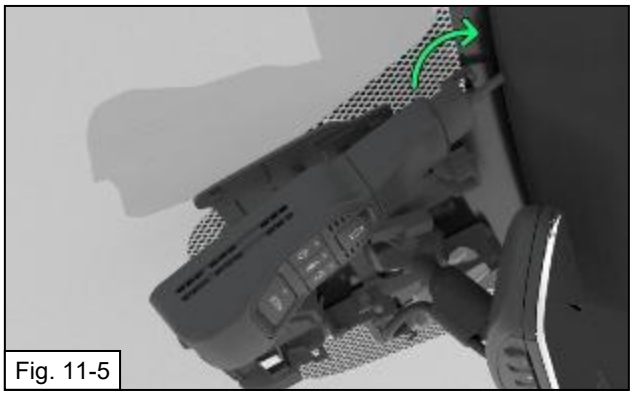
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Fig. 11-3

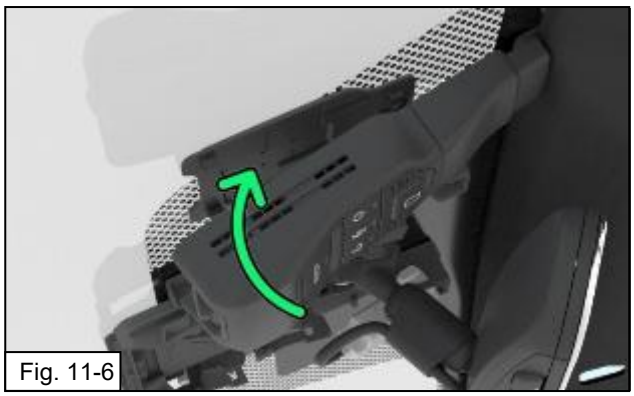
NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 11-3)


Fig. 11-4

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 11-4)

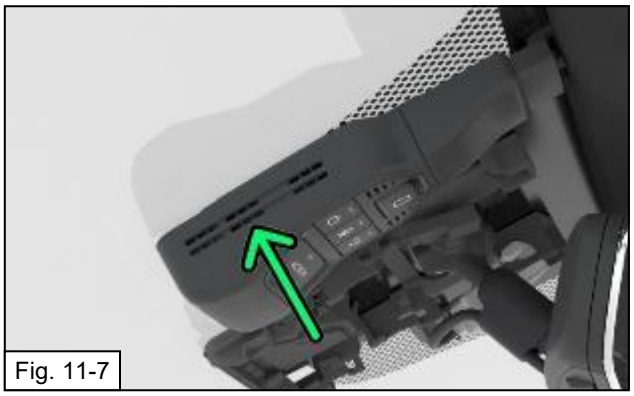

Fig. 11-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 11-5)

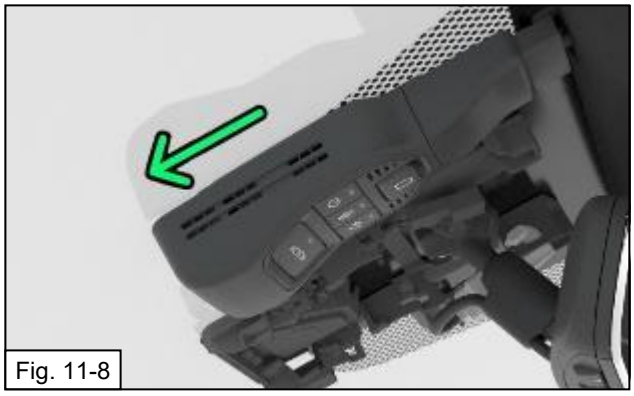

Fig. 11-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 11-6)

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Fig. 11-7

(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. 11-7)


Fig. 11-8

(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. 11-8)

12. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm that both connector pairs and fuse holders have been protected with the foam tape provided in order to avoid squeaks and rattles.


Fig. 12-1

(b) Bundle the Y-harness and fuse holders at the front edge of the map lamp opening using 2 cable ties. Loop and bundle as required such that it does not obstruct the console being reinstalled (Fig. 12-1)


Fig. 12-2

(c) Stow the Dashcam Pigtail harnesses against the existing harnesses on the front of the map lamp opening. (Fig. 12-2)

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Fig. 12-3

(d) 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. 12-3)

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

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

(g) After securing, be sure to snip off excess cable tie length to avoid squeaks or rattles from the loose end(s).



Fig. 13-1



Fig. 13-2

13. Reinstall Overhead Console

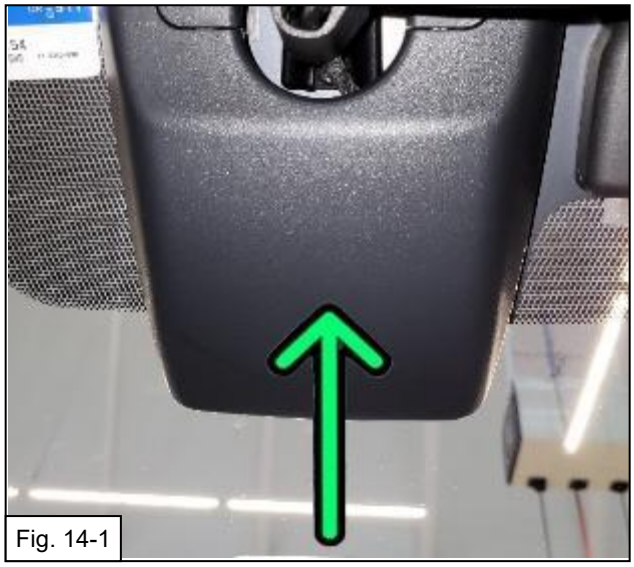
(a) Re-connect both the harness connectors for the overhead console. Do not let the console hang. (Fig. 13-1)

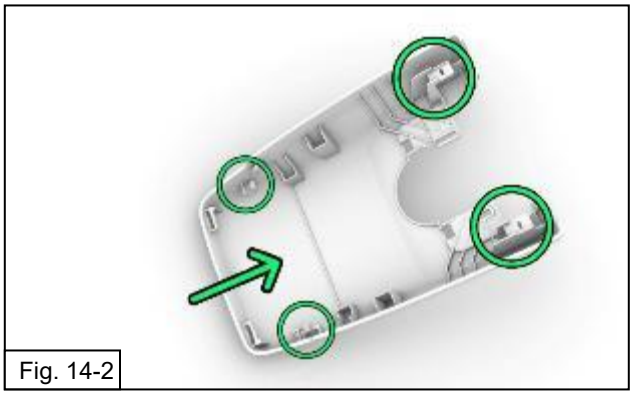
(b) Check all console clips are present and in good condition. If any are still installed in the roof of the vehicle and have separated from the console, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 13-1)

(c) Reinstall the console by carefully, but firmly, pushing upwards on all 4 corners. Observe marks in headliner for alignment references. Carefully push in to place to lock. Check all corners for gaps. If struggling, reposition wire harnesses and try again. (Fig. 13-2)

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

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Fig. 14-1


Fig. 14-2

14. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 14-1)

(b) Take note of the clips inside the LSS cover and ensure all 4 corners are correctly engaged when refitting the cover. Check all sides are fitted correctly with a consistent gap to the glass, paying particular attention to the small clips at the lower end. (Fig. 14-2)

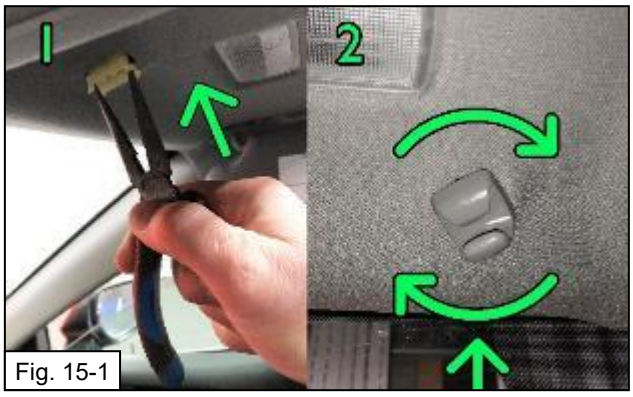


Fig. 15-1

15. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 15-1,1)

(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. 15-1,2)

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

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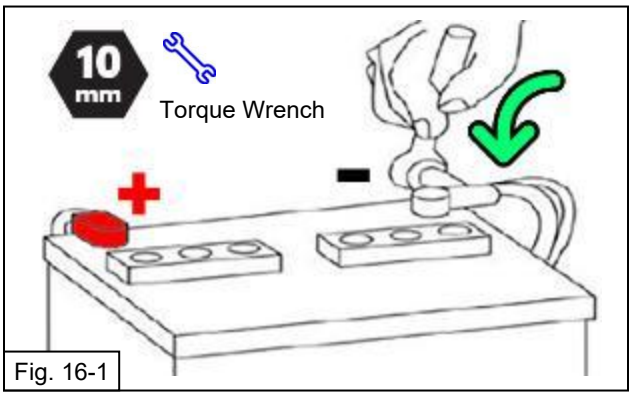


Fig. 16-1

16. 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)

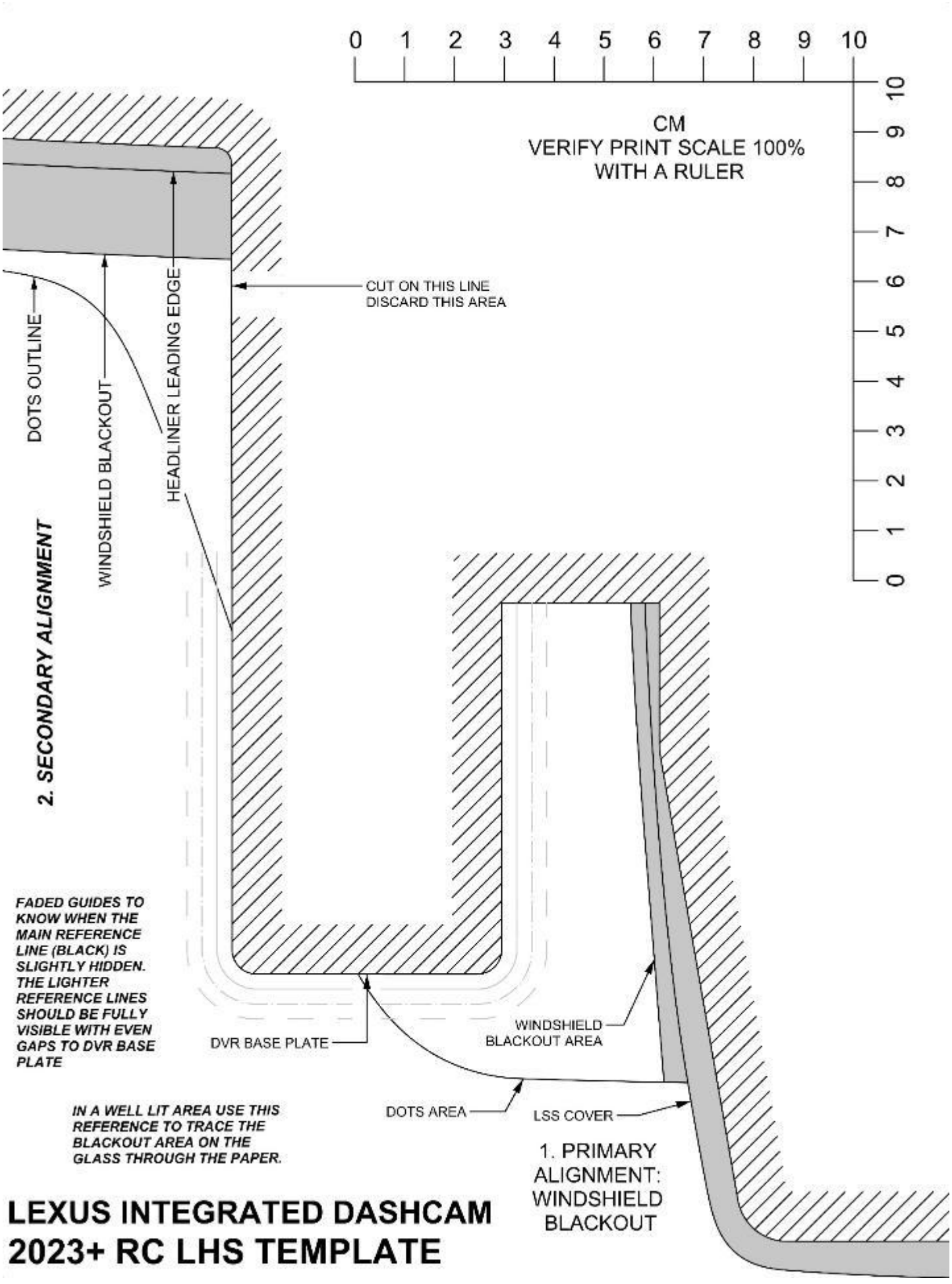
(c) **CAUTION:** Do not touch the positive terminal with any tool.

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

17. 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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LEXUS INTEGRATED DASHCAM
2023+ RC LHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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.
☐ Quick Start Guide in glove box	Confirm Quick Start Guide is placed in glove box.
Vehicle Function Checks	
☐ 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 or 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: **PT949-76221 (Dashcam)**
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
RX 23-0021 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0K** 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

All Models with EC mirror

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	Y-Harness (PT949-48210)

*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: 90467-09245
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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 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 Lexus dealer for a copy of this document.


Fig. 1-1

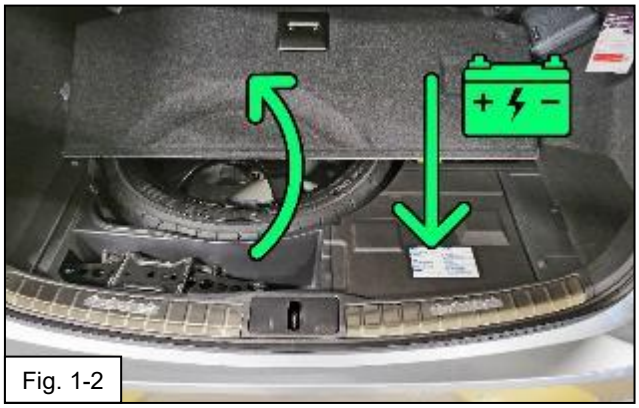

Fig. 1-2


Fig. 1-3

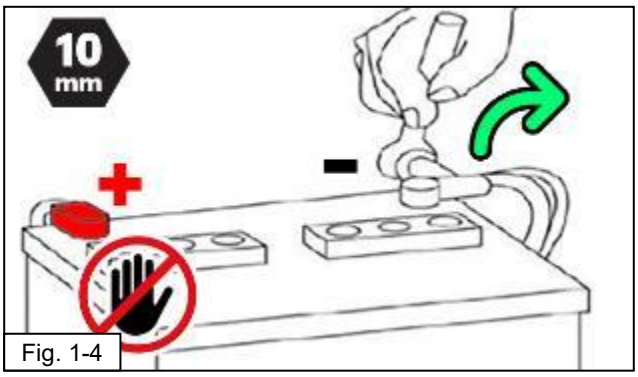


Fig. 1-4

1. Disconnect Battery

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).

(a) Do NOT touch or disconnect high voltage systems on a Hybrid / Plug-In Hybrid (PHEV) Vehicle (if equipped). Only disconnect the 12V Battery.

(b) The 12V Battery in the Gas powered Lexus RX is located in the engine bay. (Fig. 1-1)

(c) The 12V Battery in the Hybrid / PHEV powered Lexus RX is located on the right side of the trunk, under the load floor. First lift the load floor cover, then remove the battery cover to find the battery underneath it. (Fig. 1-2)

(d) Disconnect the Negative Cable by loosening the 10 mm nut that clamps the connector to the battery post, shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-3)

(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. If necessary, use something non-conductive to keep the cable away from the battery post. (Fig. 1-4).

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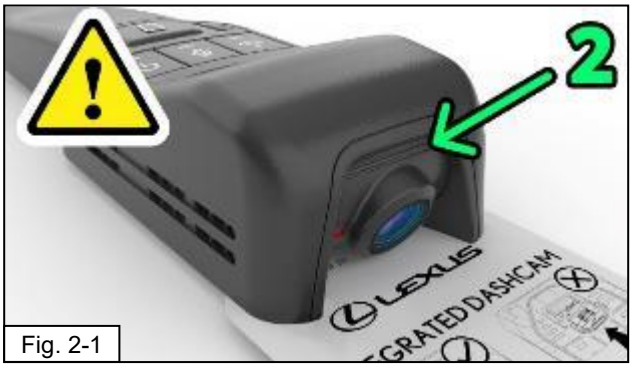


Fig. 2-1

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)

(c) If this is not correct, please see adjustment instructions available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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Fig. 4-1

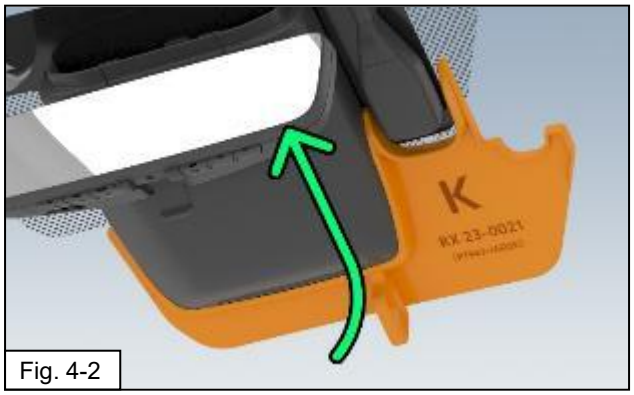


Fig. 4-2



Fig. 4-3

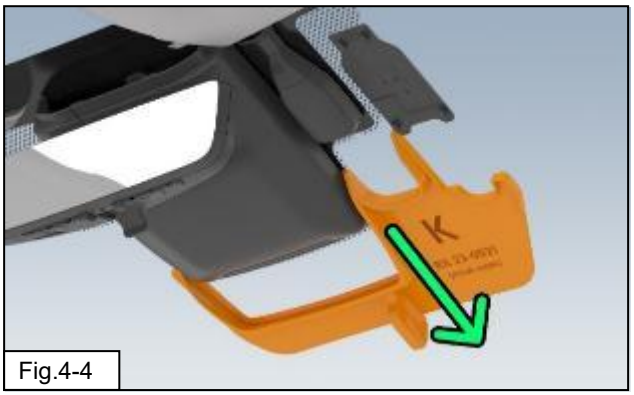


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use the 3D hard template "**K**" with the part number **"RX 23-0021"** *(Legacy: **PT949-IAD0K**)* (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 (**RX 23-0021**) between the LSS cover and the windshield glass, it should fit snugly against the LSS cover side walls, check for rain sensor interference (*it should **not** contact the rain sensor*), 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 LSS cover. (Fig. 4-4)

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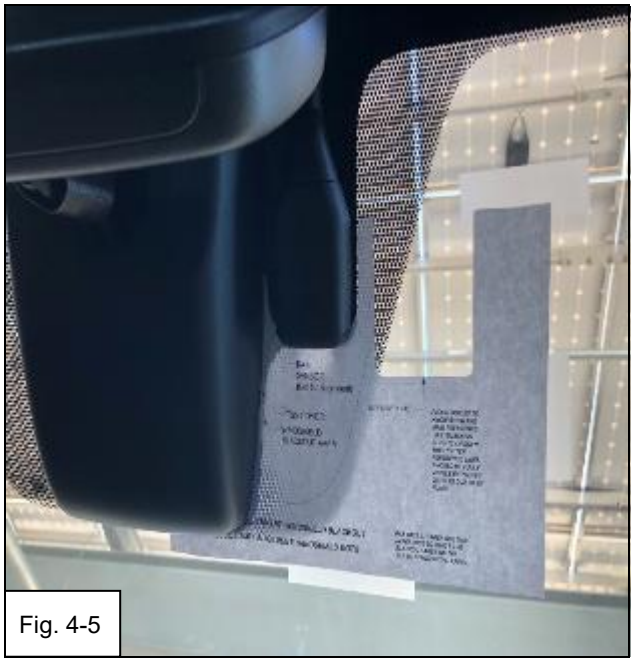

Fig. 4-5


Fig. 4-6

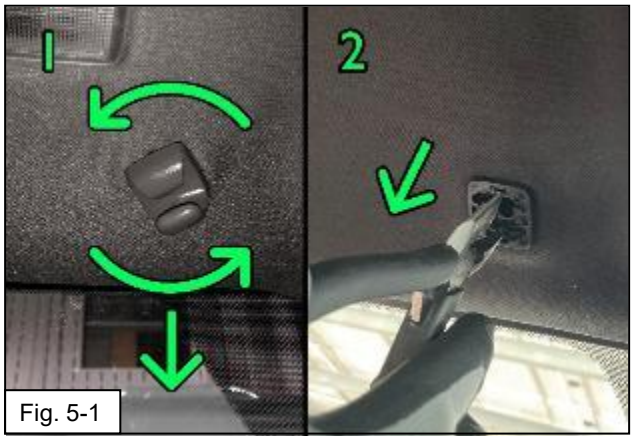


Fig. 5-1

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 LSS 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

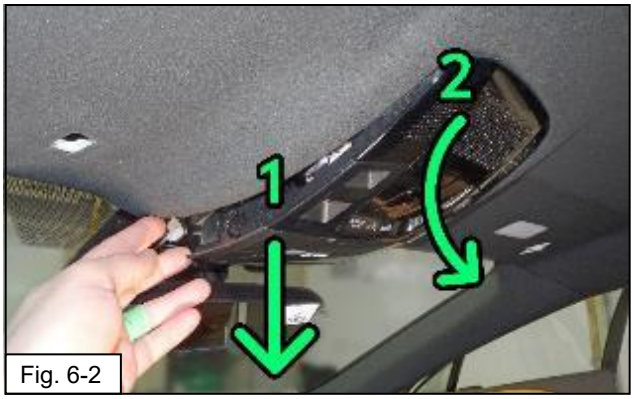


Fig. 6-2

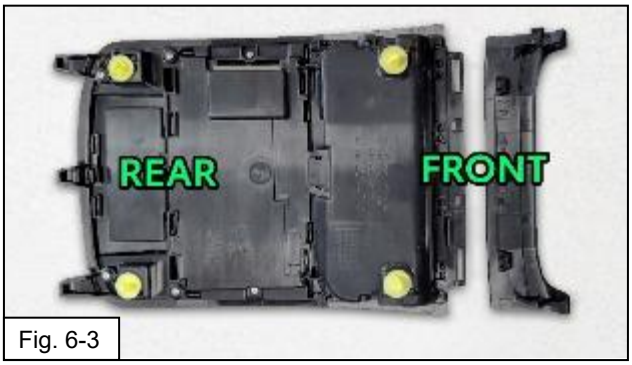
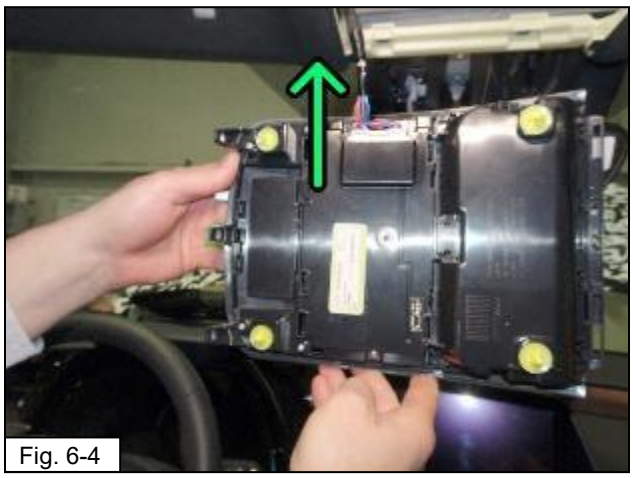


Fig. 6-3


Fig. 6-4

6. Remove Roof Map Light Console

(a) Before removing the Map Light Console, there is a trim between the Console and LSS Cover that must be removed first. Start by using a hooked / pry trim removal tool ONLY on the **Driver's Side** to pull down on the small trim piece, then once unclipped, rotate it down to unhook the passenger side. (Fig. 6-1)

NOTE: There is a hook tab on the passenger side that will be damaged if the passenger side is removed first.

(b) Adjust the mirror position so it will not be damaged by the console removal.

(c) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 6-2)

NOTE: Do NOT start from the rear clips.

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

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

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

(d) Once fully detached, disconnect the wire harness from the driver's side of the roof console (Fig. 6-4) and place the console in a safe place to avoid damage.

(e) Inspect the console clips and replace if damaged (**P/N: 90467-09240, 4 PCS**)

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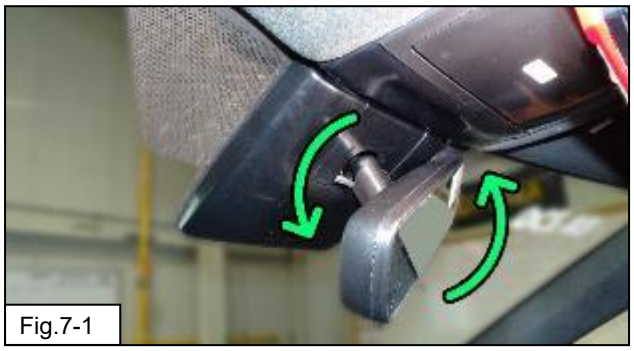

Fig.7-1



Fig. 7-2

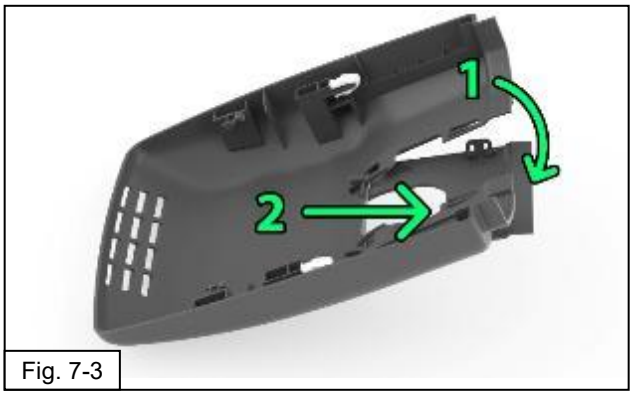
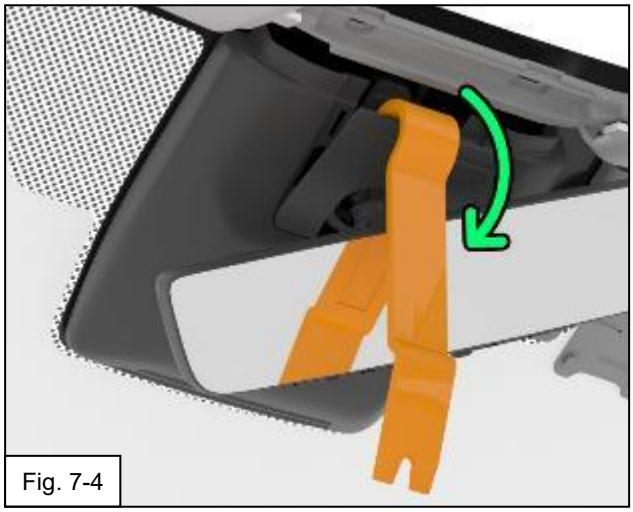


Fig. 7-3


Fig. 7-4

7. Remove the LSS Cover

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

(b) Holding the LSS 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 LSS cover. Take care not to scratch the headliner in the process.

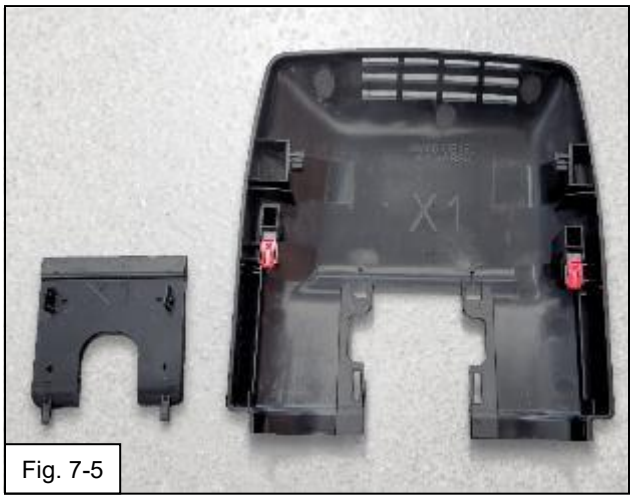
(1) Pull down on the upper rearward edge of the cover plate (closest to the headliner) to disengage the clips. (Fig. 7-3), (Fig. 7-4)

(2) Alternatively, with the right shaped trim panel tool you may be able to pry the smaller cover off first. (Fig. 7-4)

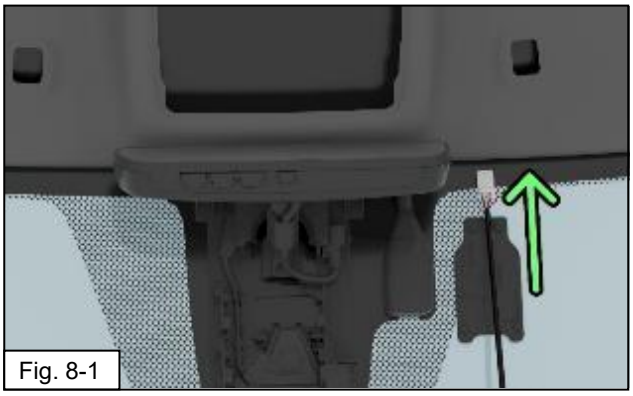
(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks. (Fig. 7-3)

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

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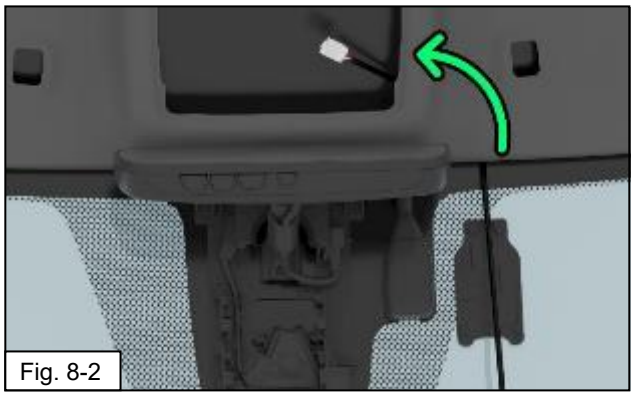

Fig. 7-5

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


Fig. 8-1

8. Route Dashcam Harness through the Headliner

(a) Route the Dash Cam pigtail above the front edge of the headliner. Take care not to crease the headliner in the process. (Fig. 8-1)


Fig. 8-2

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 8-2)


Fig. 8-3

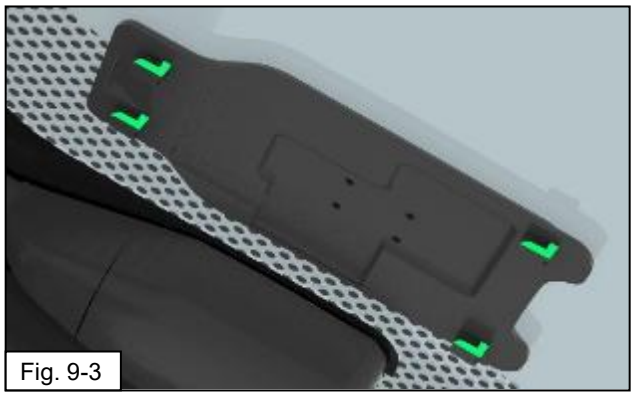
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 8-3)

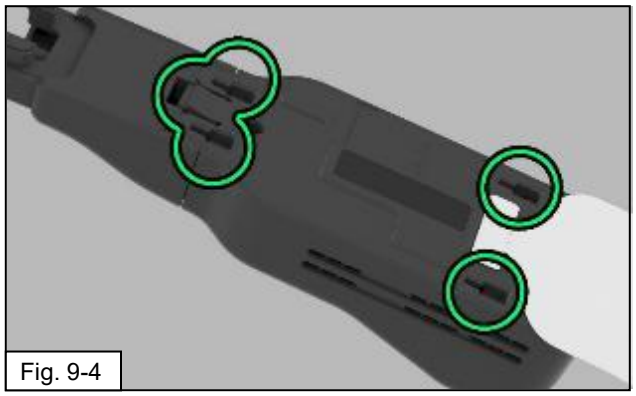
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Fig. 9-1


Fig. 9-2


Fig. 9-3


Fig. 9-4

9. 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.

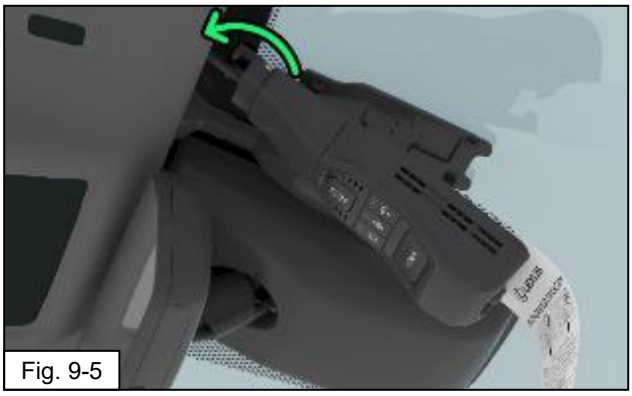
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 9-1)

(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. 9-2)

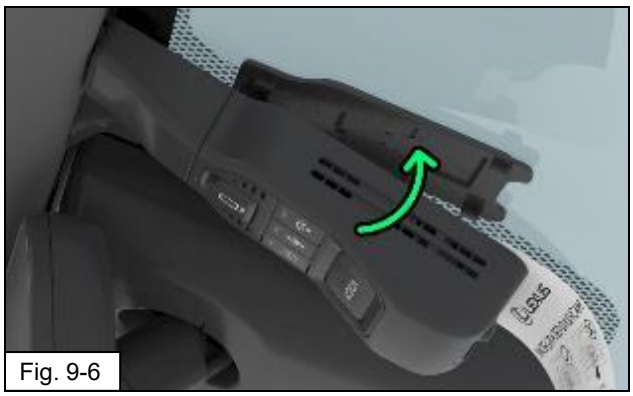
NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 9-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 9-4)

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Fig. 9-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 9-5)


Fig. 9-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 9-6)


Fig. 9-7

(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. 9-7)


Fig. 9-8

(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. 9-8)

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Fig. 10-1

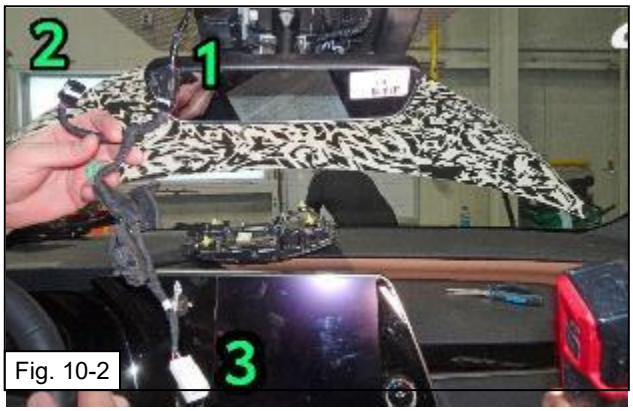
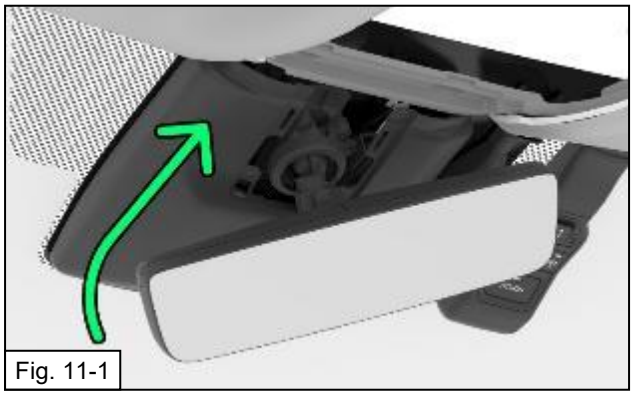


Fig. 10-2


Fig. 11-1

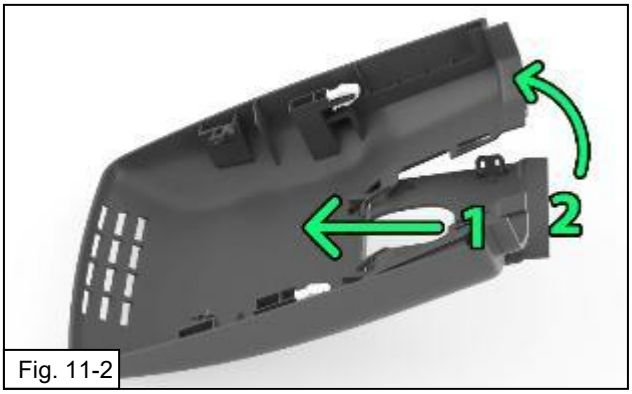


Fig. 11-2

10. Install the Y-Harness

(a) Locate the power mirror harness connector above the mirror to the driver's side. It is the black 10 pin connector, to the outboard position on the driver's side of the mirror mount. Unplug the connector. (Fig. 10-1)

(b) Connect the Y-Harness mating female connector **(1)** to the vehicle side harness that was unplugged above (Fig.10-2)

(c) Insert the male connector **(2)** into the original position on the mirror assembly (Fig. 10-2).

(d) Route Dash Cam connector **(3)** of the Y-Harness above the plastic frame into the map light console space and connect the Harness to the Dash Cam pig tail. (Fig. 10-2).

11. Reinstall the LSS Cover

(a) Reinstall the LSS 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. 11-1)

(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 11-2 – shown off the vehicle for picture clarity)

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Fig. 12-1



Fig. 12-2

12. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the connectors of the Y-Harness to Vehicle and Dash Cam to Harness have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 12-1)

(b) Route the Y-harness above the plastic frame at the front of the headliner towards the center. (Fig 12-1)

(c) Secure the Dashcam harnesses and Fuse Holders against the existing harnesses 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. 12-2)

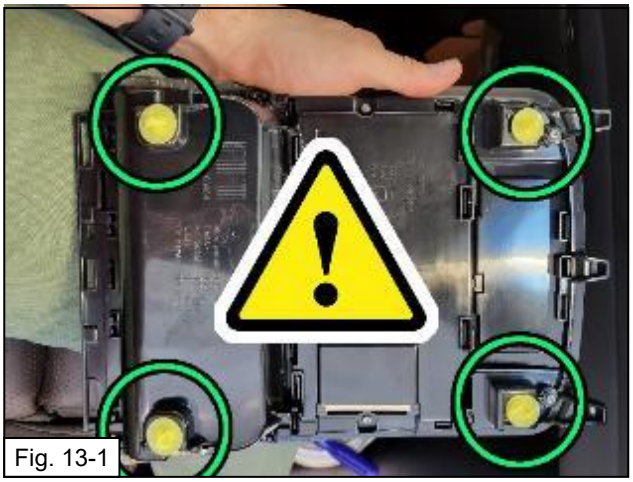
(d) Ensure that the connection for the console is still free to be connected and that the bundled harnesses are not obstructing the console map light connector. (Fig. 12-2)

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

(f) **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. 13-1

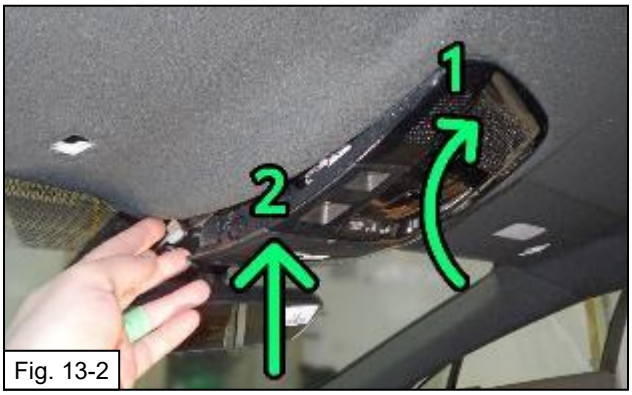
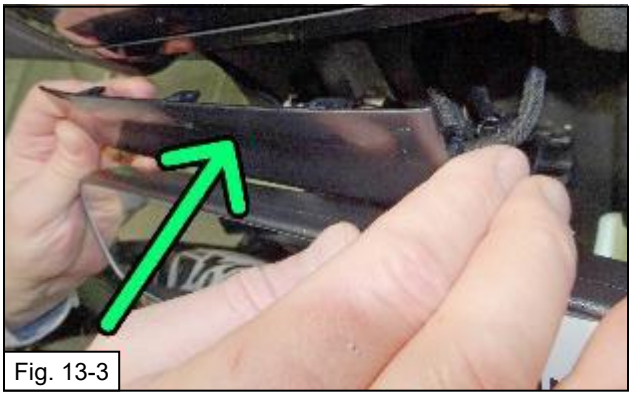


Fig. 13-2


Fig. 13-3

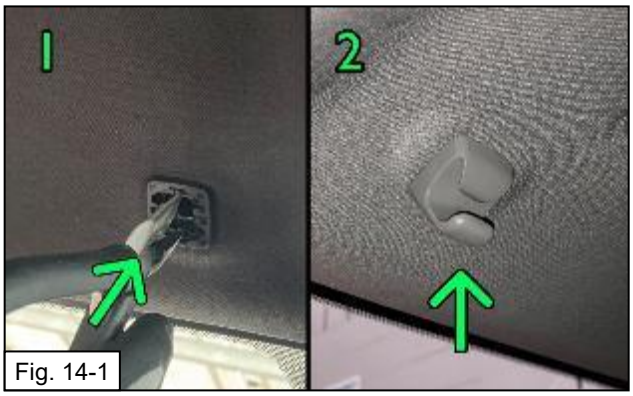


Fig. 14-1

13. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 13-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 13-2)

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

(e) Reinstall the trim piece between the Map Light Console and the LSS system by first hooking in the Passenger Side, and then pushing up with the driver's side. (Fig: 13-3)

(f) **Note: Be careful aligning the hooks and clips of the small trim piece to avoid damage**

14. 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 L)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 13-1 R)

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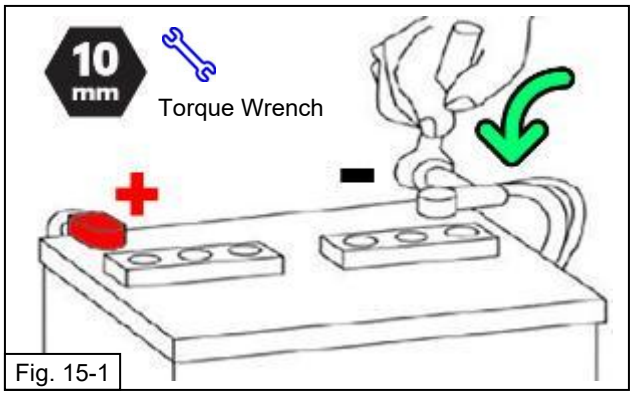


Fig. 15-1

15. 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.

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


Fig. 16-1

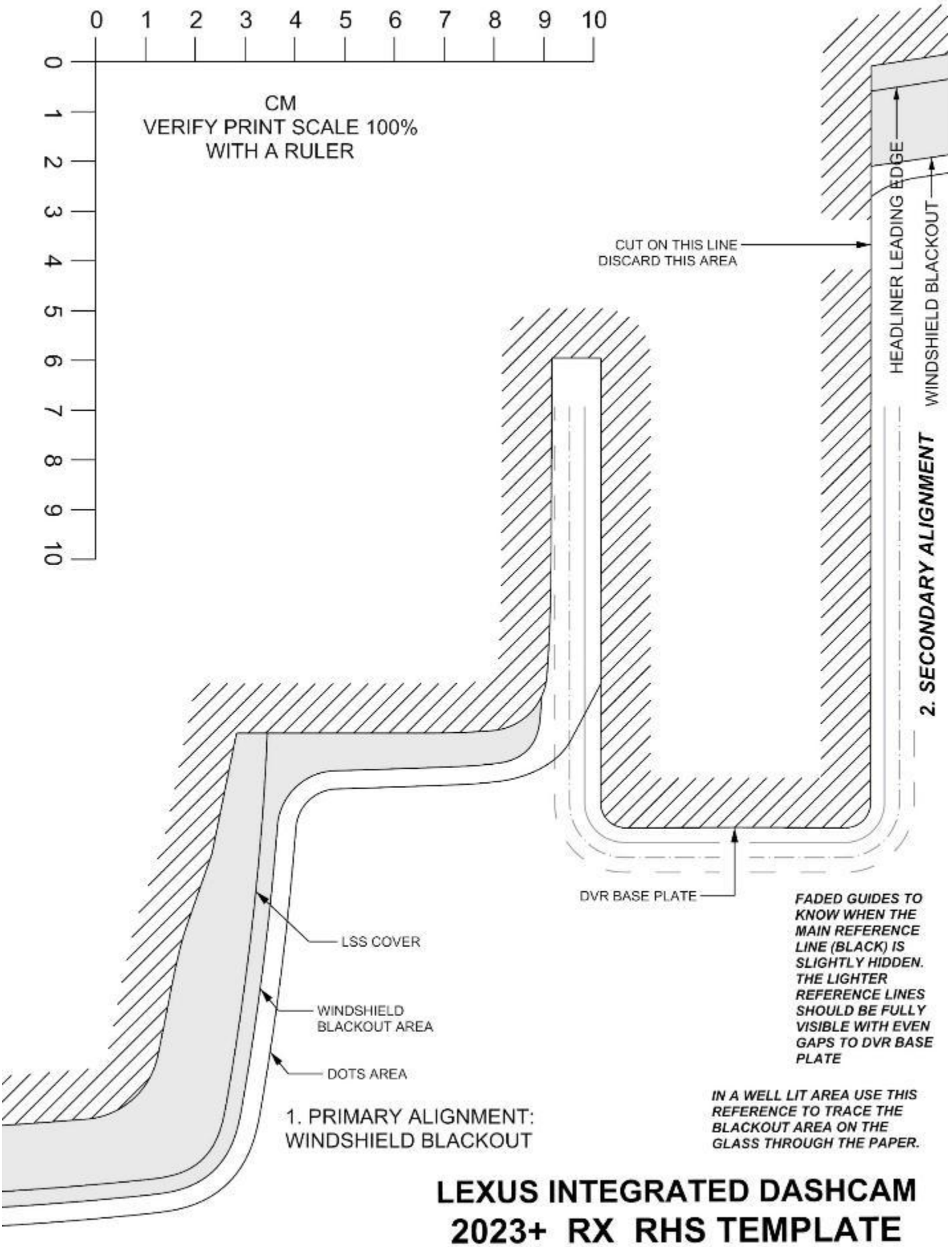
16. Replace Battery Cover Trim

If working on the Hybrid / PHEV, re-install the battery cover and floor liner (if equipped) back to their original position.
(Fig 16-1)

17. 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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LEXUS INTEGRATED DASHCAM
2023+ RX RHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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: PT949-76221 (Dashcam) **Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2		

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Temperature Gauge	
Special Tools	**Notes**
RZ423-0020 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0P** 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

All Models

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	

*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: 90467-09245
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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 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 Lexus dealer for a copy of this document.


Fig. 1-1


Fig. 1-2

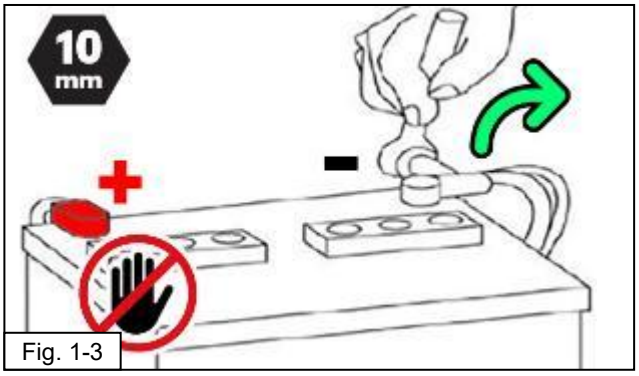


Fig. 1-3

1. Disconnect Battery

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).

(a) Do NOT touch or disconnect high voltage systems on the Lexus RZ. Only disconnect the 12V Battery.

(b) The 12V Battery in the Lexus RZ is located under the hood. (Fig. 1-1)

(c) Disconnect the Negative Cable by loosening the 10 mm nut that clamps the connector to the battery post, shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-2)

(d) 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. If necessary, use something non-conductive to keep the cable away from the battery post. (Fig. 1-3).

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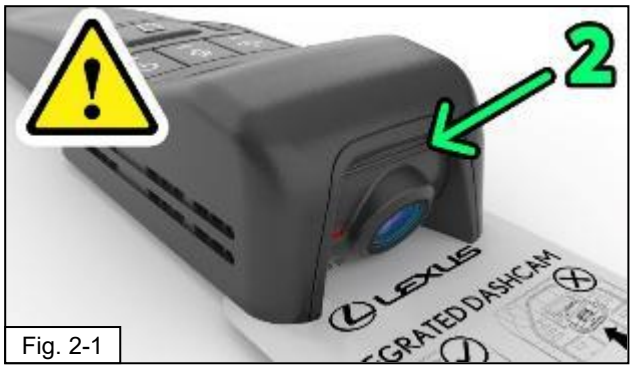


Fig. 2-1

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

3. Vehicle Protection

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

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Fig. 4-1

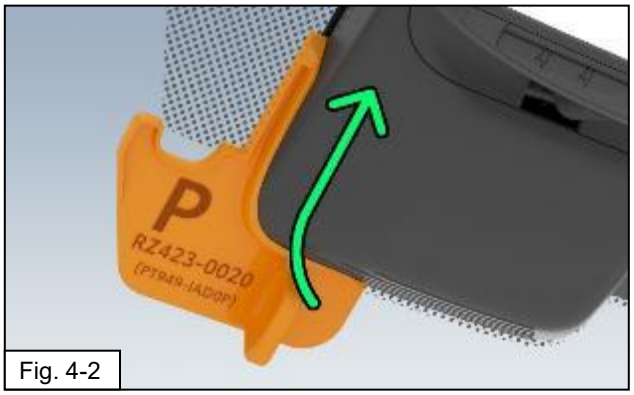


Fig. 4-2

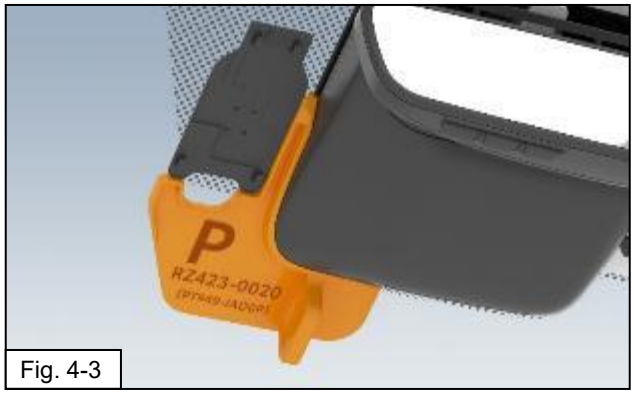


Fig. 4-3

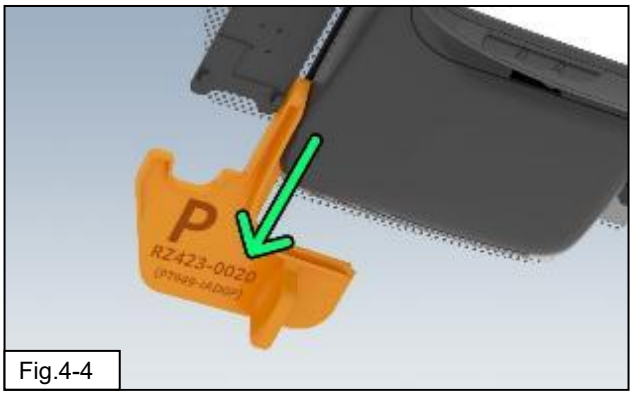


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use the 3D hard template "**P**" with the part number **"RZ423-0020"** *(Legacy: **PT949-IAD0P**)* (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 (**RZ423-0020**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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 LSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

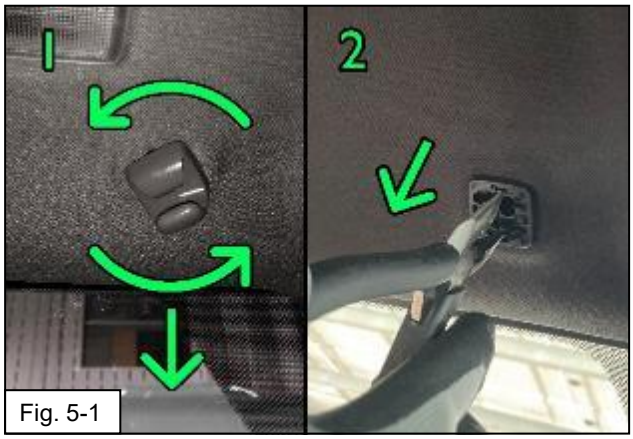


Fig. 5-1

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 LSS 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

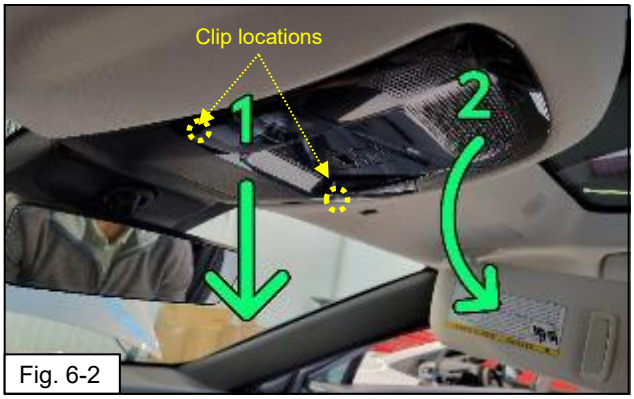


Fig. 6-2

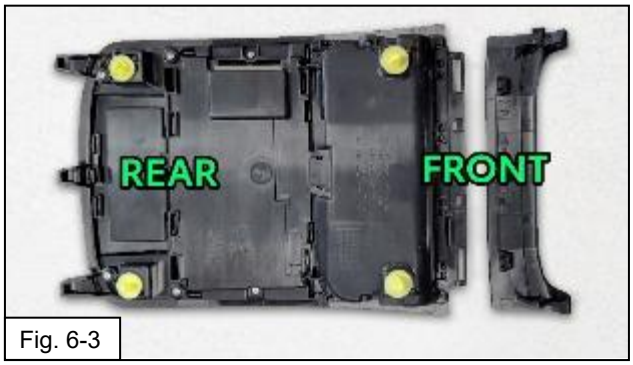
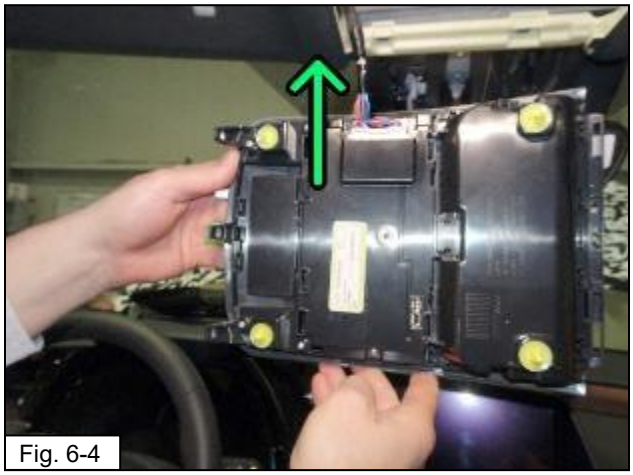


Fig. 6-3


Fig. 6-4

6. Remove Roof Map Light Console

(a) Before removing the Map Light Console, there is a trim between the Console and LSS Cover that must be removed first. Start by using a hooked / pry trim removal tool ONLY on the **Passenger's Side** to pull down on the small trim piece, then once unclipped, Slide it down to unhook the Driver's side. (Fig. 6-1)

NOTE: There is a hook tab on the Driver's side that will be damaged if the Driver's side is removed first.

(b) Adjust the mirror position so it will not be damaged by the console removal.

(c) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 6-2)

NOTE: Do NOT start from the rear clips.

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

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

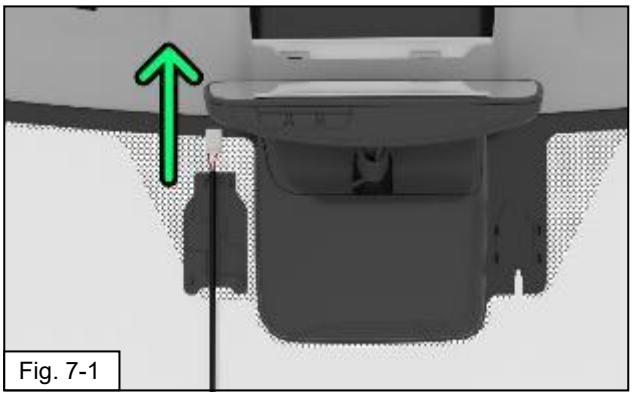
(3) CAUTION: Console removal can be aggressive. Avoid crease to headliner.

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

(d) Once fully detached, disconnect the wire harness from the driver's side of the roof

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Fig. 7-1

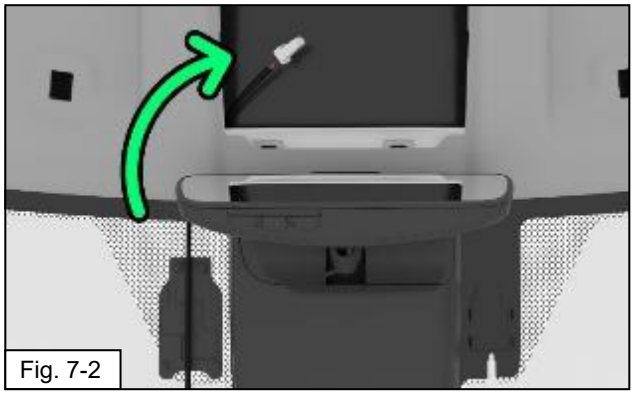

Fig. 7-2


Fig. 7-3

console (Fig. 6-4) and place the console in a safe place to avoid damage.

(e) Inspect the console clips and replace if damaged (**P/N: 90467-09240, 4 PCS**)

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)

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 7-2)

(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)

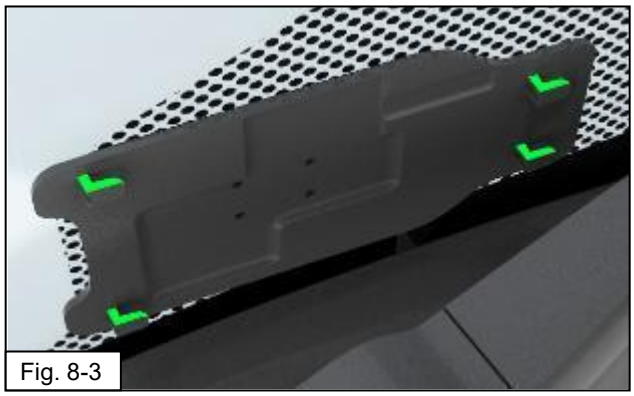
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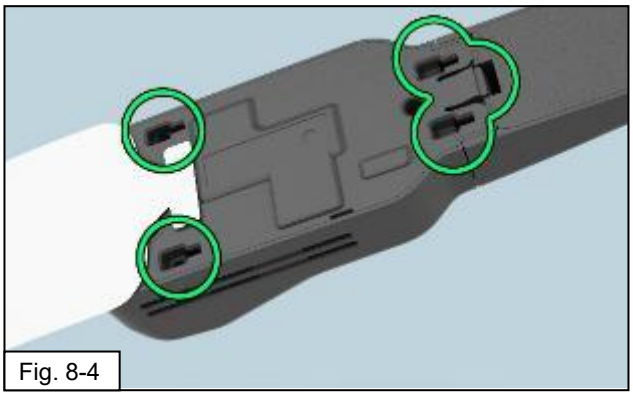
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Fig. 8-1


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)

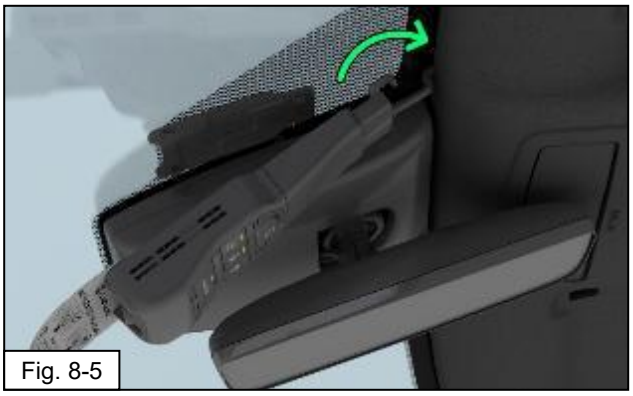
(a) **IMPORTANT: Remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 8-2)

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

9. Locate the Pre-Wire-Harness

(a) Locate the Dashcam Pre-wire harness connector inside the overhead console cavity to the passenger's side. (Fig. 9-1)


Fig. 9-2

(b) The Pre-wire Harness connector is the white 5 pin connector, secured with foam cover and tear-away tape. (Fig. 9-2)


Fig. 9-3

(c) Remove the foam covering on this connector by tearing it away and taking care to properly discard the removed foam pieces so they are not accidentally left in the vehicle (Fig.9-3)


Fig. 9-4

(d) Route the Dash Cam Pigtail Harness across the front edge of the console opening and around to the pre-wire connector and make the connection. Cover the connectors with the provided foam tape to prevent rattles. (Fig. 9-4).

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Fig. 10-1

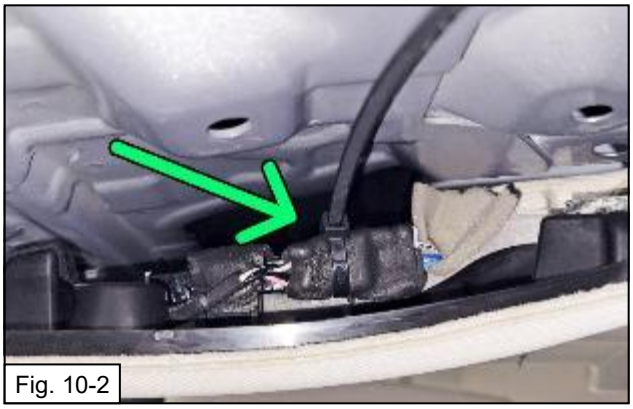

Fig. 10-2


Fig. 10-3


Fig. 10-4

10. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the Dashcam connectors have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 10-1)

(b) Secure the Dashcam and Vehicle Harness Connectors using the supplied Zip Ties in the original location, Tighten the zip tie and snip off the excess and ensure no protrusions that might obstruct the console fitment. (Fig. 10-2)

(c) Secure the Dashcam harnesses against the existing harnesses on the front edge of the map light/sunglasses pocket opening. Arrange this in a way that does not obstruct the console being reinstalled. Tighten the zip ties 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. 10-3)

(d) 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. 10-4)

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

(f) **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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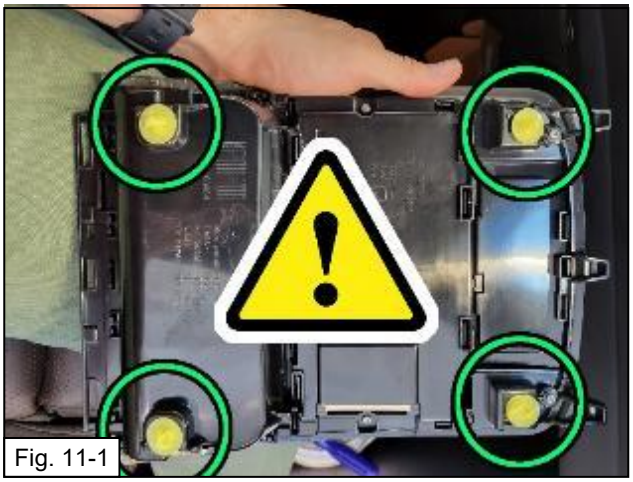

Fig. 11-1



Fig. 11-2

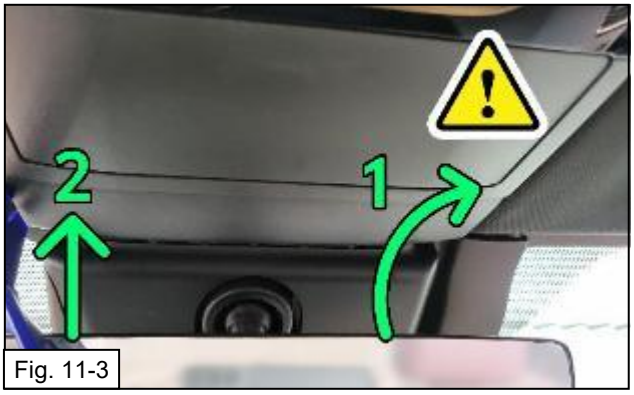


Fig. 11-3

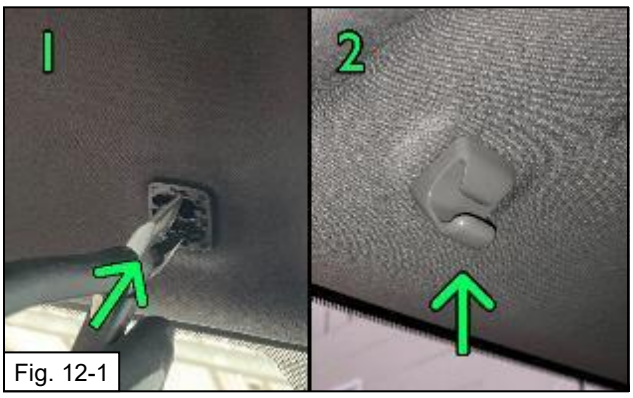


Fig. 12-1

11. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. Replace any damaged clips as needed using service part number **90467-09245** (Fig. 11-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 11-2)

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

(e) Reinstall the trim piece between the Map Light Console and the LSS system by first hooking in the Driver's Side, and then pushing up with the Passenger side. (Fig: 11-3)

(f) **NOTE: Be careful aligning the hooks and clips of the small trim piece to avoid damage**

12. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 12-1)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 12-1)

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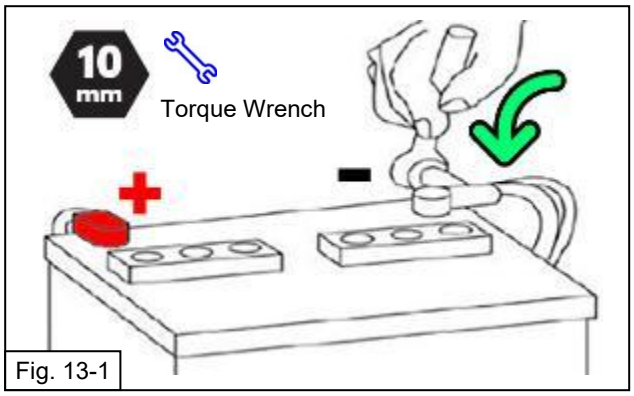


Fig. 13-1

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.

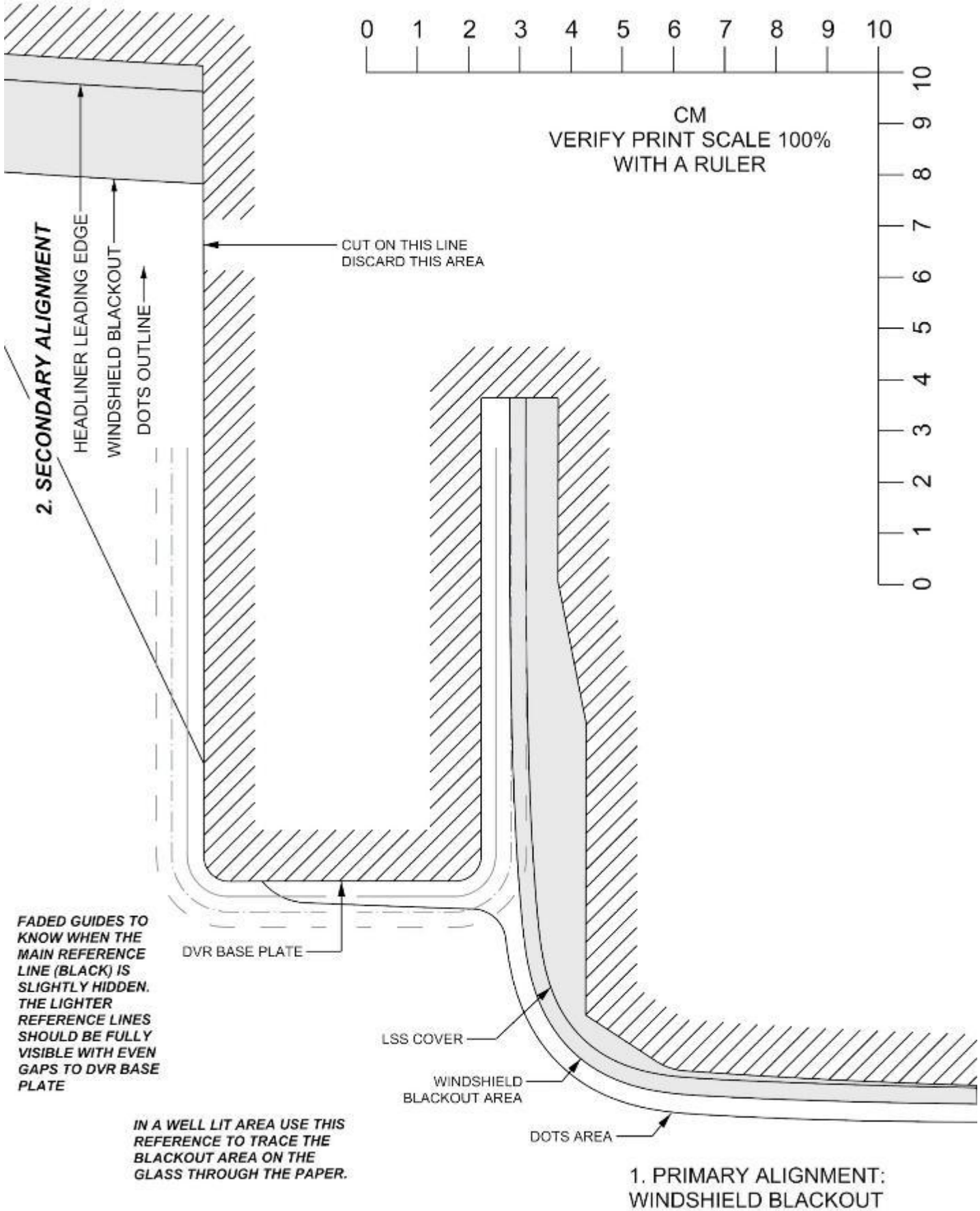
NOTE: Remove DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

14. 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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LEXUS INTEGRATED DASHCAM
2023+ RZ LHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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 Center console.	
Vehicle Function Checks	Confirm standard lighting functions work properly.
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal.	
☐ 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: PT949-76221 (Dashcam) Legacy Part Numbers: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2		

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Temperature Gauge	
Special Tools	**Notes**
LMX24-0002 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0W** 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 and newer TX Models

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	

*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: 90467-09245
2		
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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.

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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 Lexus dealer for a copy of this document.


Fig. 1-1


Fig. 1-2


Fig. 1-3

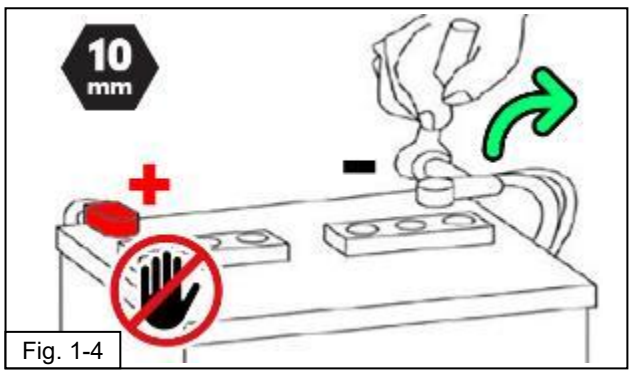


Fig. 1-4

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 Lexus TX is located in the engine bay (Fig. 1-1)

(d) The 12V Battery in the Hybrid powered Lexus TX 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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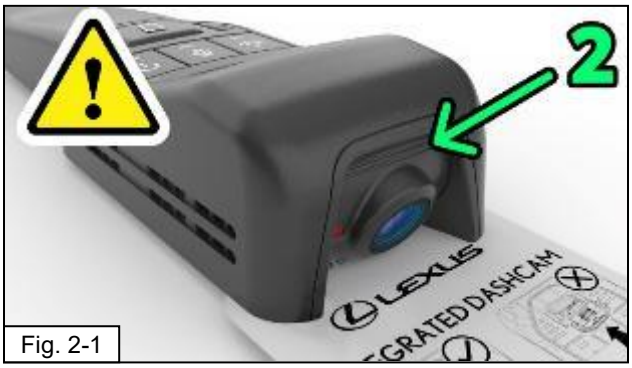


Fig. 2-1

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

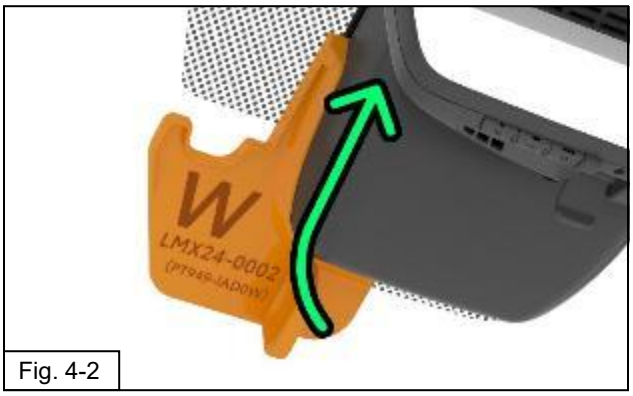


Fig. 4-2



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 LSS cover.

(b) For PPO Installations, please use 3D hard template "**W**" with the part number **"LMX24-0002"** *(Legacy: **PT949-IAD0W**)* (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 (**LMX24-0002**) between the LSS cover and the windshield glass, it should fit snugly against the LSS 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 cover 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 LSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

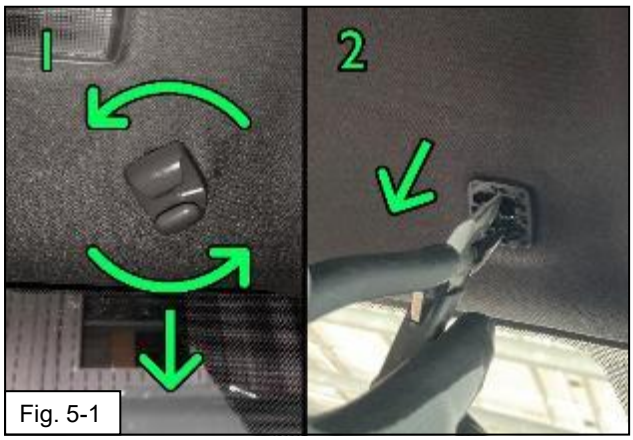


Fig. 5-1

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 LSS 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.

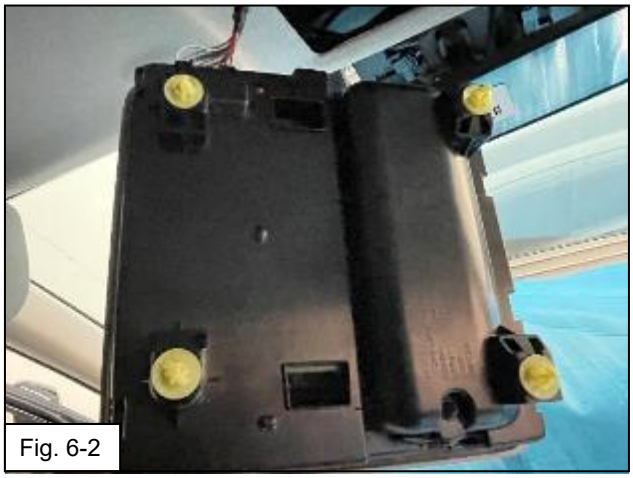
(1) Twist the Visor Hook Anti-Clockwise and pull down to release hook component. (Fig. 5-1)

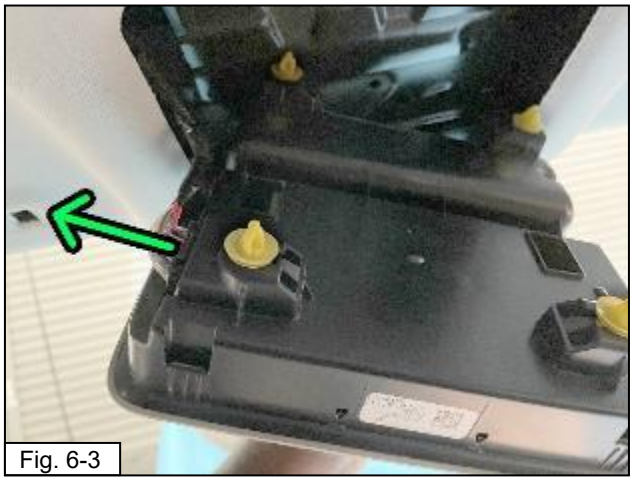
(2) After removing the hook component, release the two tabs and pull out the base, needle nose pliers recommended.

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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)

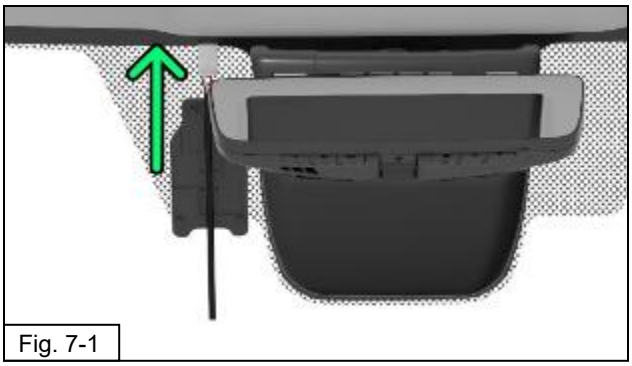
(b) Once fully detached, disconnect the wire harness from the roof console and place the console in a safe place to avoid damage. (Fig. 6-3)

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

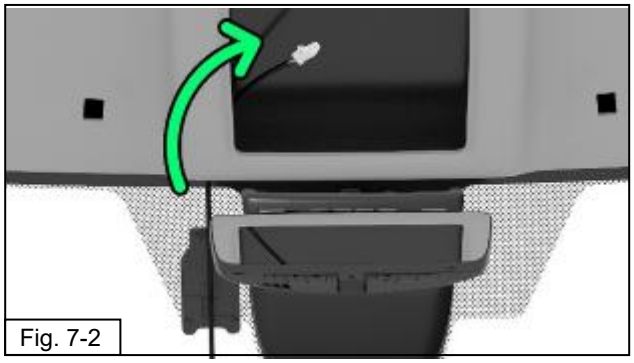
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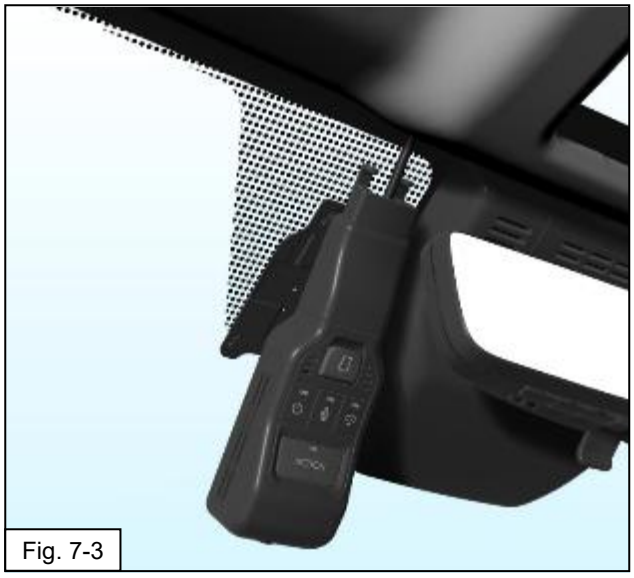
7. Route Dashcam Harness through the Headliner


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 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)

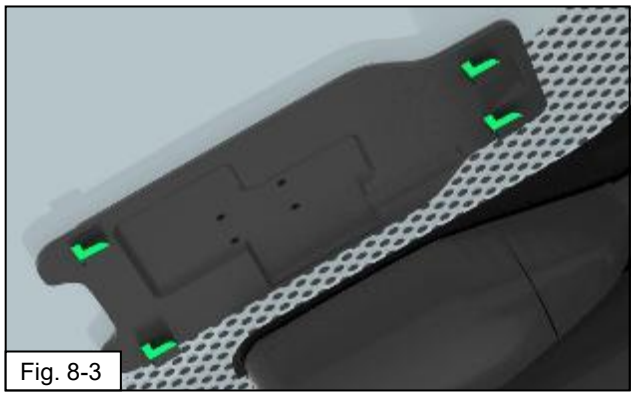
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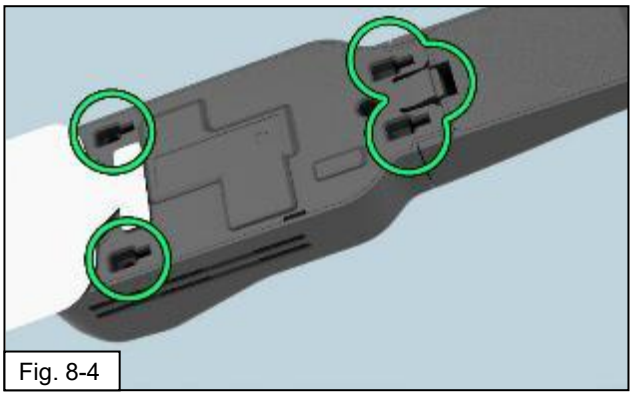
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Fig. 8-1


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)

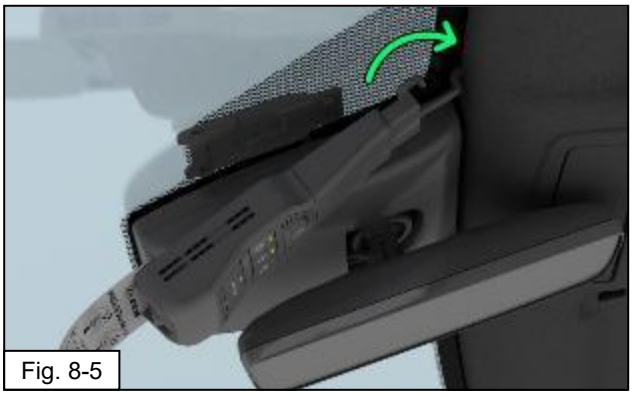
(a) **IMPORTANT: Remove the Semi-Transparent Blue Film** protective cover from the camera lens before fitting the camera to the vehicle. Handle the camera with care after removing. Ensure the film cover is not left behind in the vehicle and is properly discarded. (Fig. 8-2)

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)

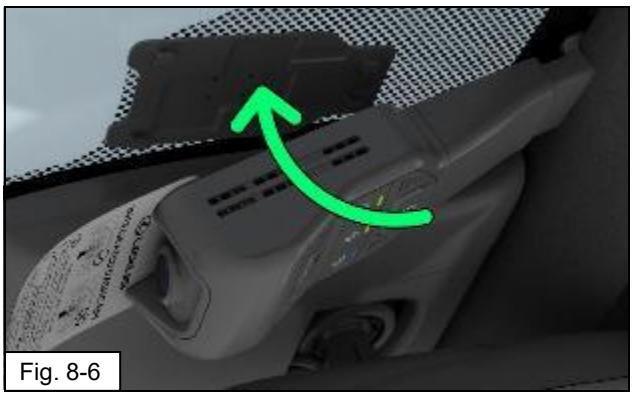
(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 8-4)

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Fig. 8-5

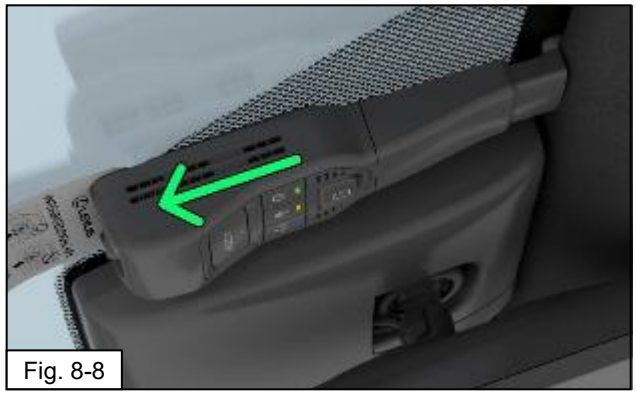
(a) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 8-5)


Fig. 8-6

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


Fig. 8-7

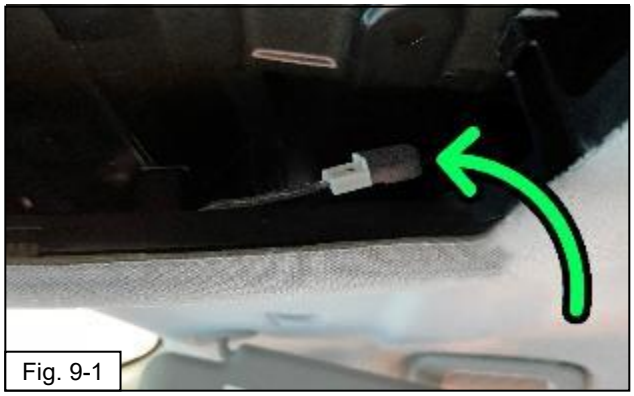
(c) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 8-7)

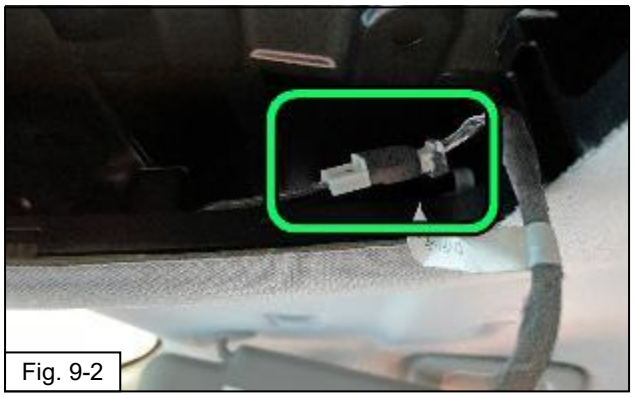

Fig. 8-8

(d) 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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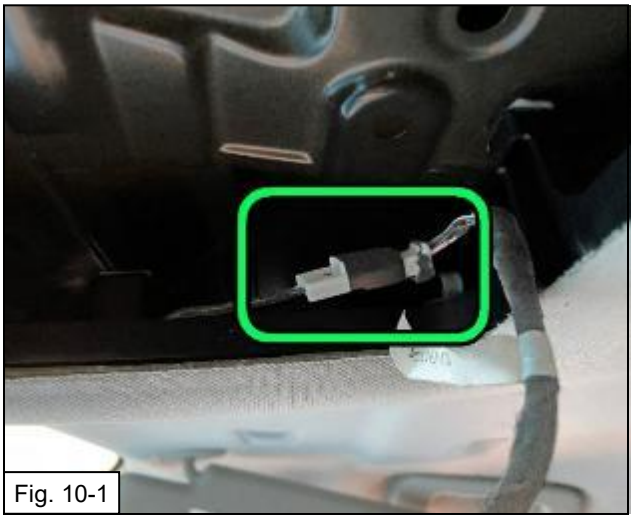

Fig. 9-1


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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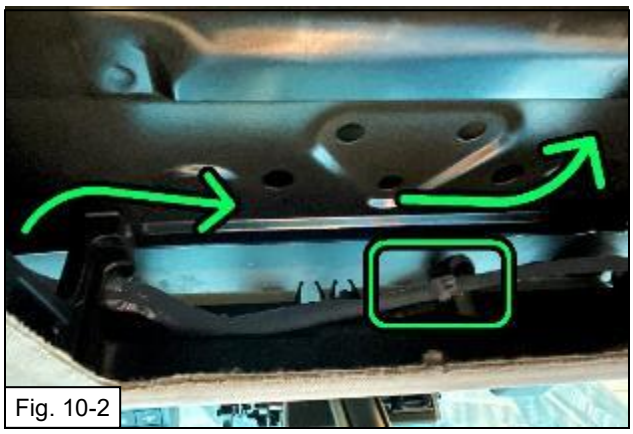

Fig. 10-2


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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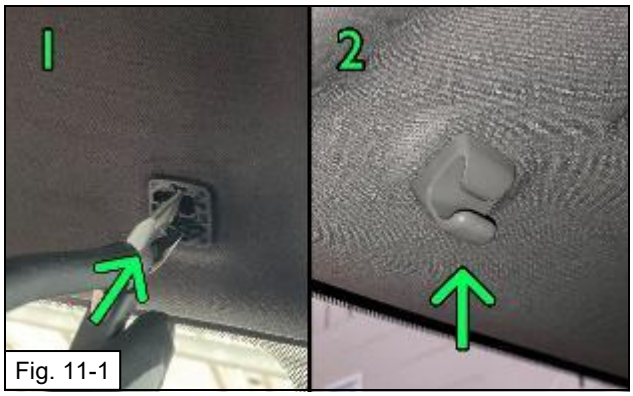


Fig. 11-1

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)

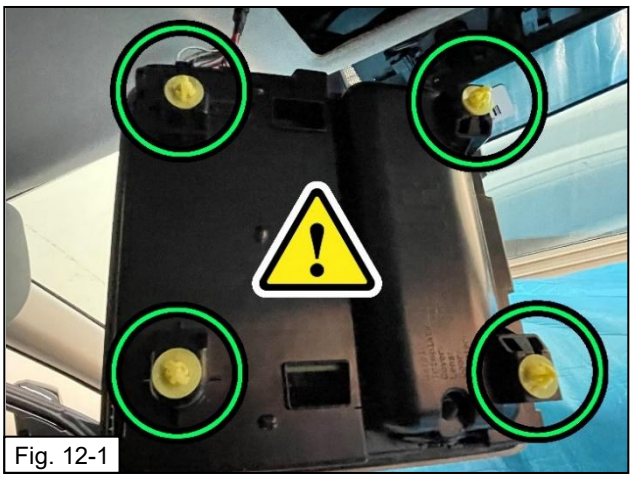

Fig. 12-1



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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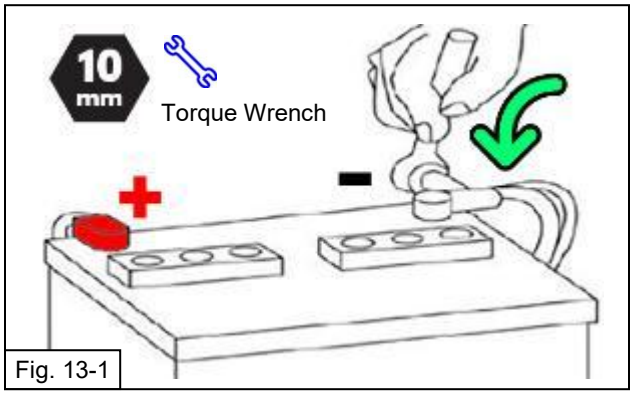


Fig. 13-1

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.

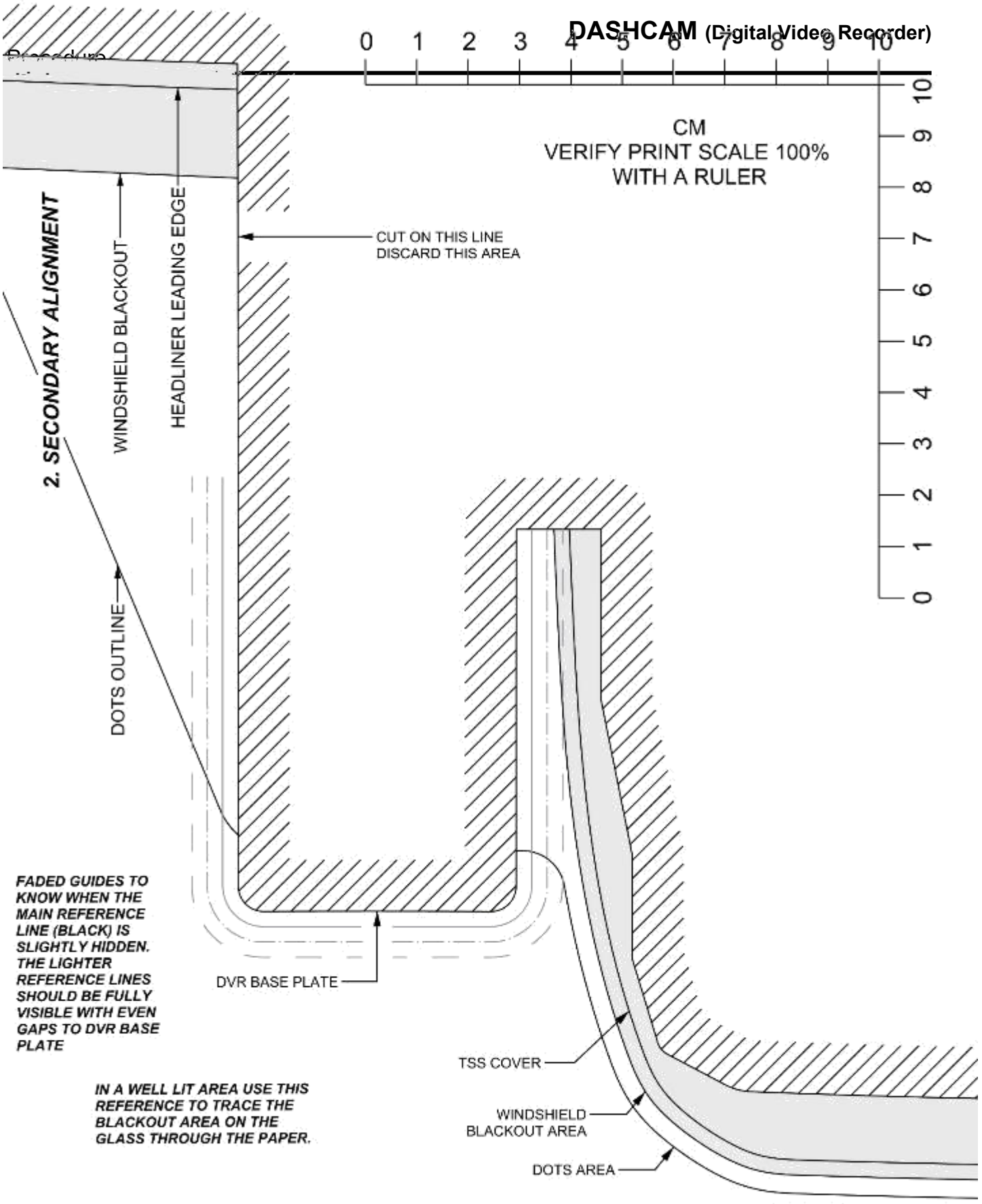
14. NOTE: Remove DCC Cut Fuse (Short Pin) if applicable. (Validate location by following fuse box diagram in reverse side of relay cover).

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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LEXUS INTEGRATED DASHCAM
2024+ LEXUS TX LHS TEMPLATE

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Checklist - these points **MUST** be checked to ensure 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: **PT949-76221 (Dashcam)**
PT949-48210 (Y-Harness)

Legacy Part Number: PT949-76220 (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	PT949-76221 (Dashcam Unit)
2	1	PT949-48210 (Y-Harness)

Conflicts

N/A

Recommended Tools

Personal & Vehicle Protection	**Notes**
Seat Protection	
Dash Protection	
Special Tools	**Notes**
UX 23-0019 Install Aid	**For Port Installations Only** The legacy part number **PT949-IAD0R** 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

All Models with EC mirror

Recommended Sequence of Application

Item #	Accessory
1	Dashcam (PT949-76221)
2	Y-Harness (PT949-48210)

*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	Up to 2 pcs	Roof Console **YELLOW** Clips if damage occurs during removal. P/N: 90467-09245
3		
4		

Kit Service Parts (may be required in future)

Item #	Part Number	Description
1	PT949-76220-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 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 Lexus dealer for a copy of this document.


Fig. 1-1

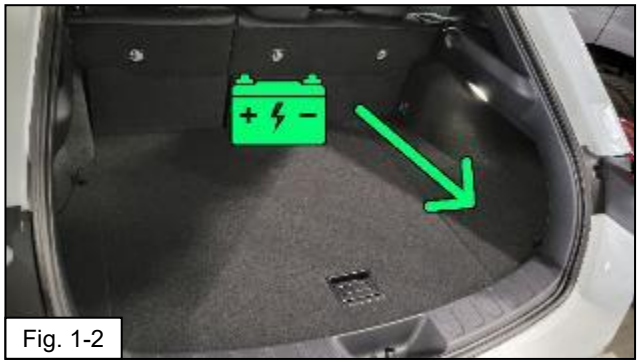

Fig. 1-2


Fig. 1-3

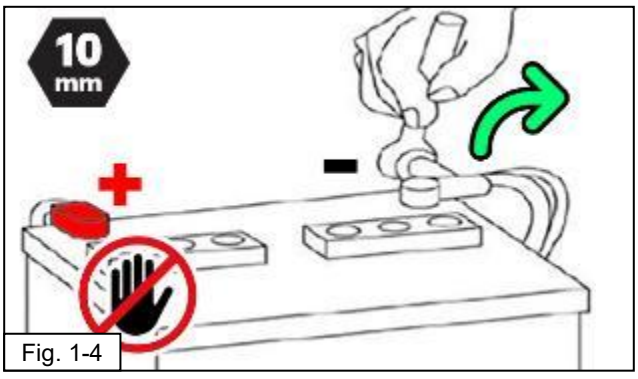


Fig. 1-4

1. Disconnect Battery

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).

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

(b) The 12V Battery in the Gas powered Lexus UX is located in the engine bay. (Fig. 1-1)

(c) The 12V Battery in the Hybrid powered Lexus UX is located on the right side of the trunk, under the load floor. First lift the load floor cover, then remove the battery cover to find the battery underneath it. (Fig. 1-2, 1-3)

(d) Disconnect the Negative Cable by loosening the 10 mm nut that clamps the connector to the battery post, shown by the arrow. It is not necessary to fully remove this nut. (Fig. 1-4)

(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. If necessary, use something non-conductive to keep the cable away from the battery post. (Fig. 1-4).

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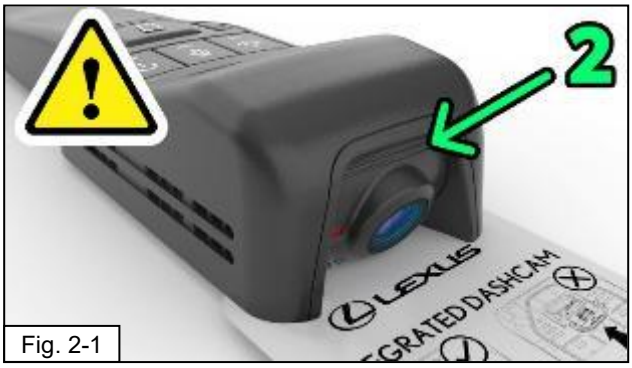


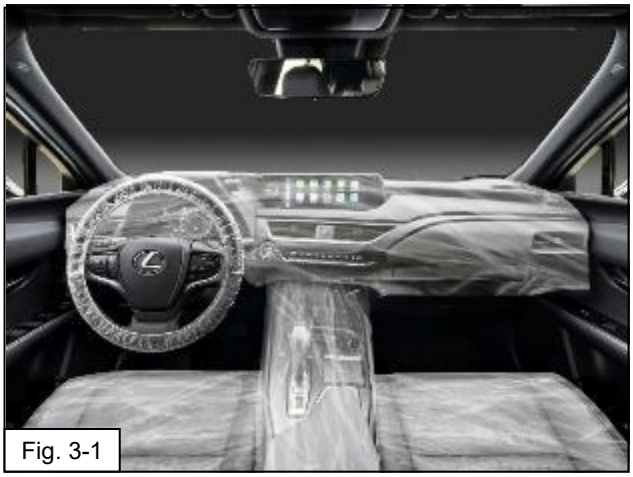
Fig. 2-1

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)

(c) If this is not correct, please see adjustment instructions available separately.
NOTE: Do not try to force it as there is a hidden lock screw on each side.


Fig. 3-1

3. Vehicle Protection

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

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Fig. 4-1

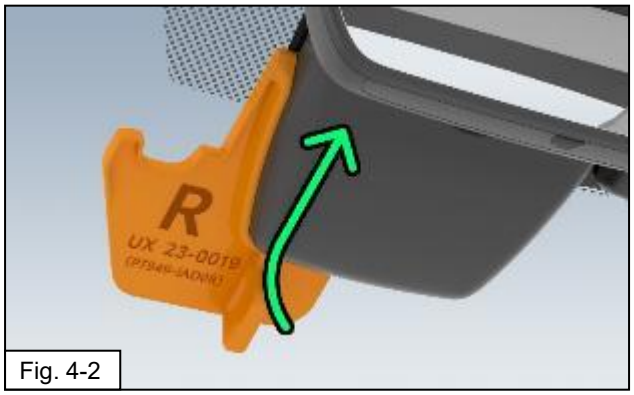


Fig. 4-2



Fig. 4-3

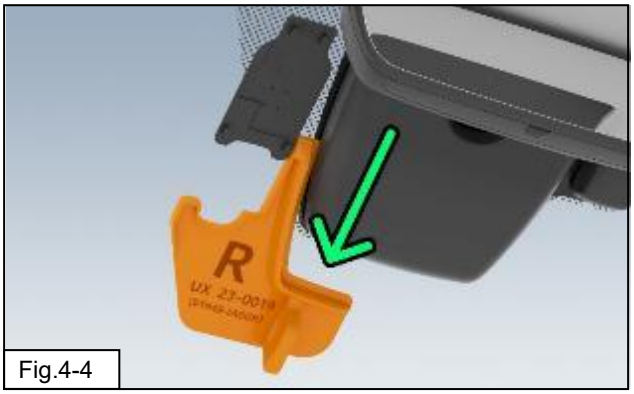


Fig.4-4

4. Install Windshield Base Plate

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

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

(b) For PPO Installations, please use the 3D hard template "**R**" with the part number **"UX 23-0019"** *(Legacy: **PT949-IAD0R**)* (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 (**UX 23-0019**) between the LSS cover and the windshield glass on the driver's side of the LSS cover, it should fit snugly against the LSS 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 LSS cover. (Fig. 4-4)

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Fig. 4-5



Fig. 4-6

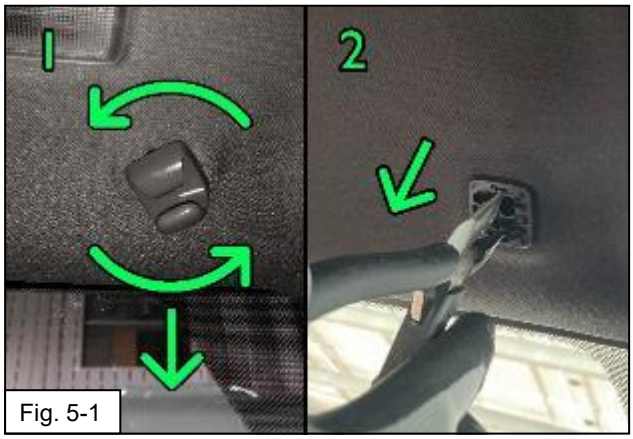


Fig. 5-1

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 LSS 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

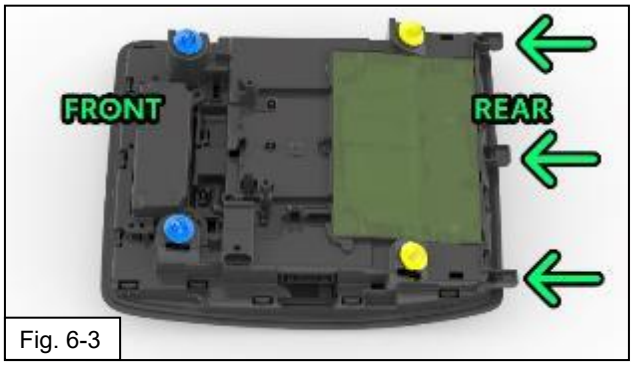
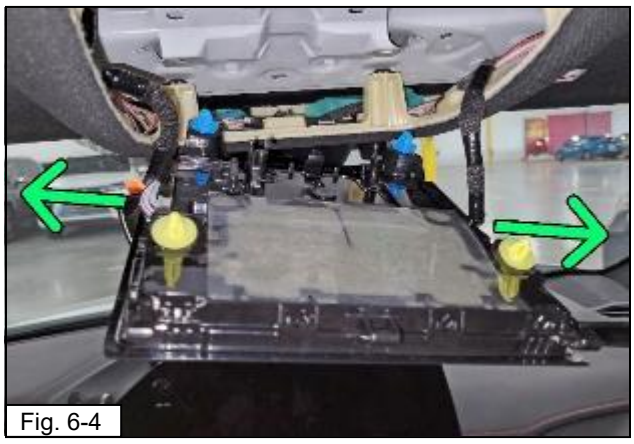


Fig. 6-3


Fig. 6-4

6. Remove Roof Map Light Console

(a) Adjust the mirror position so it will not be damaged by the console removal.

(b) 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 tilt downwards and pull again to release the clips at the rear while also unhooking the additional tabs at the rear. (Fig. 6-2)

NOTE: Do NOT start from the rear clips.

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

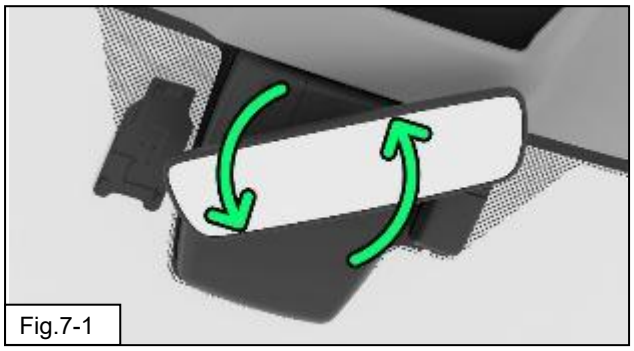
(2) CAUTION: Do **not** pry against the headliner, it will leave visible damage.

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

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

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

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Fig.7-1

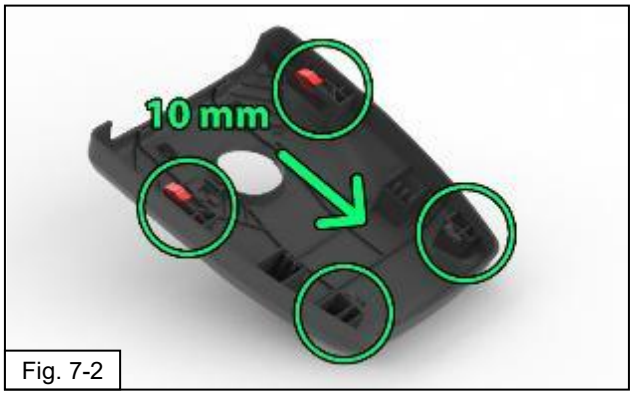


Fig. 7-2

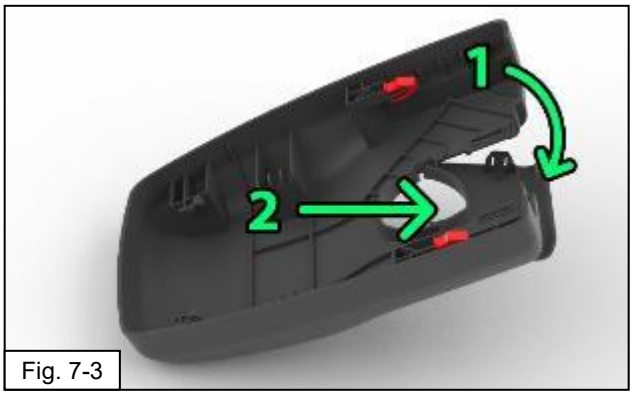
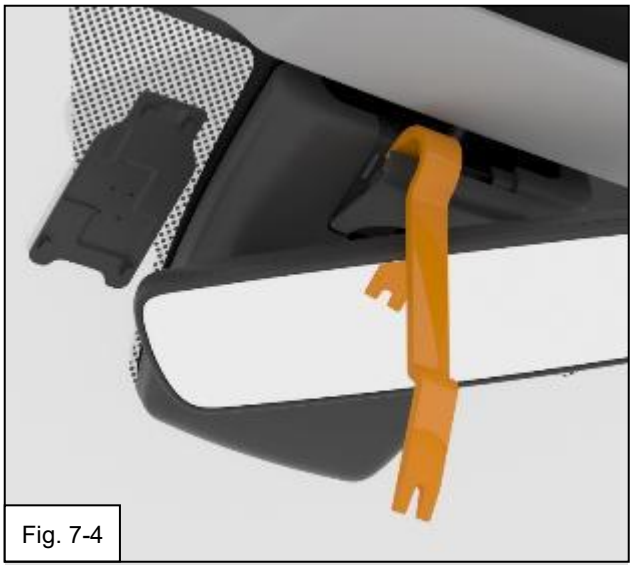


Fig. 7-3


Fig. 7-4

7. Remove the LSS Cover

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

(b) Holding the LSS 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 LSS cover. Take care not to scratch the headliner in the process.

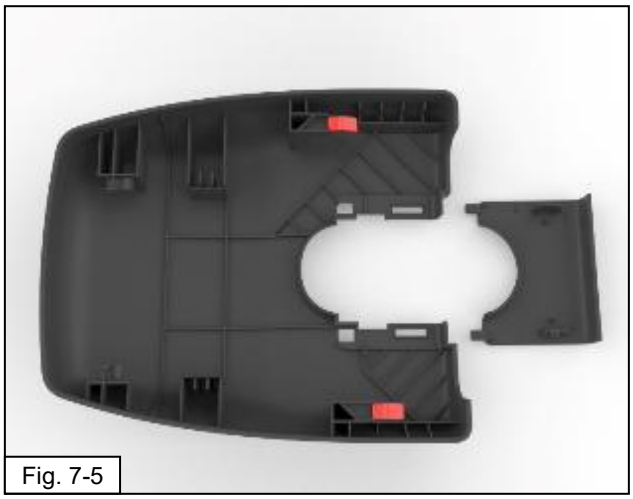
(1) Pull down on the upper rearward edge of the cover plate (closest to the headliner) to disengage the clips. (Fig. 7-3), (Fig. 7-4)

(2) Alternatively, with the right shaped trim panel tool you may be able to pry the smaller cover off first. (Fig. 7-4)

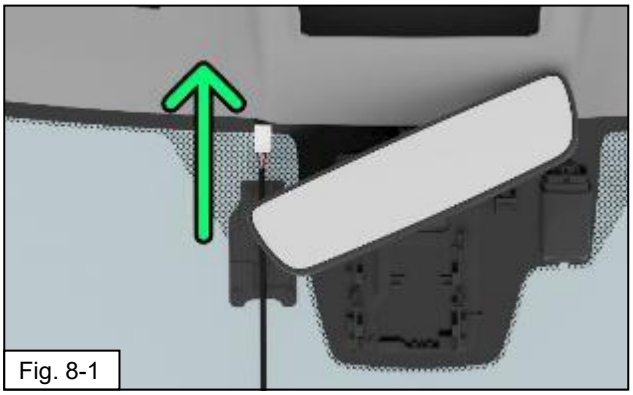
(3) Slide the smaller cover up and to the rear of the vehicle to disengage the lower hooks. (Fig. 7-3)

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

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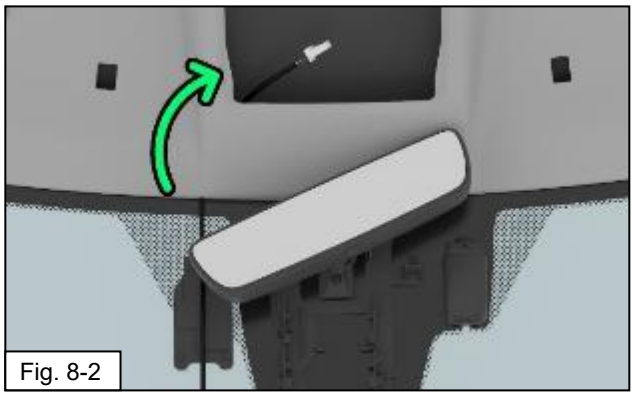

Fig. 7-5

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


Fig. 8-1

8. 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. 8-1)


Fig. 8-2

(b) Feed the Dashcam harness through to the open Map Light Console area. (Fig. 8-2)


Fig. 8-3

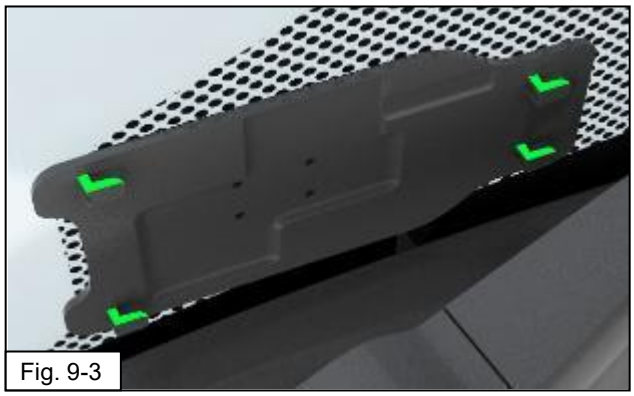
(c) Pull the majority of the wire length through to the console area so that the camera is ready to mount on to the window plate. (Fig. 8-3)

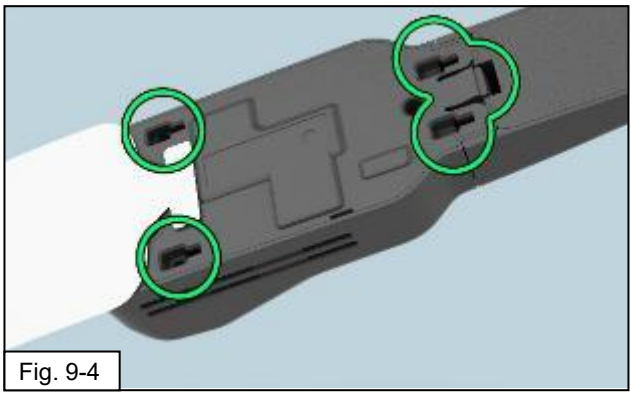
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Fig. 9-1


Fig. 9-2


Fig. 9-3


Fig. 9-4

9. 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.

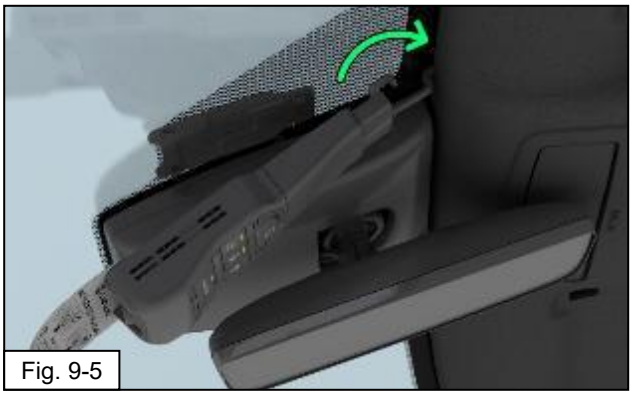
Do NOT remove the hang tag, please handle it with care to prevent accidental removal. (Fig. 9-1)

(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. 9-2)

NOTE: Observe the shape of the T-hook features for the Dashcam to lock on to. The hooks face upwards towards the headliner. (Fig. 9-3)

(b) The Dashcam is affixed to the window by sliding on to these 4 T-hooks and allowing the clip to engage. (Fig. 9-4)

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Fig. 9-5

(c) Hook the Dashcam wire extension cover hooks into the leading edge of the headliner. (Fig. 9-5)


Fig. 9-6

(d) Swing the Dashcam unit up towards the base plate. Check for alignment of the 4 T-hooks. (Fig. 9-6)


Fig. 9-7

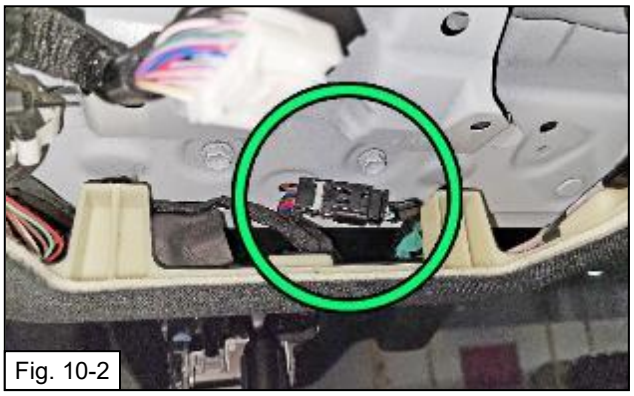
(e) Push the dashcam unit in towards the windshield to ensure all 4 T-hooks are in the correct starting point. All sides should have a consistent gap to the glass. (Fig. 9-7)

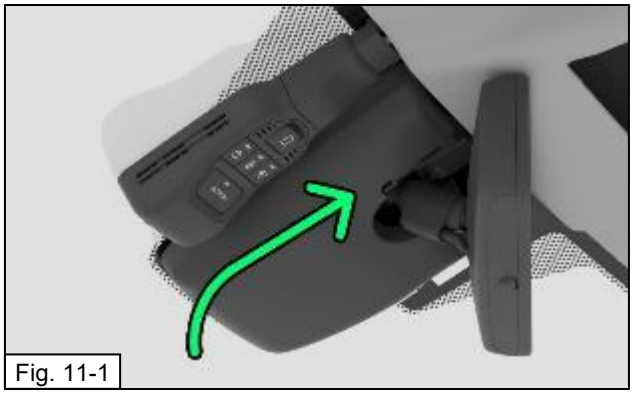

Fig. 9-8

(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. 9-8)

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Fig. 10-1


Fig. 10-2


Fig. 11-1

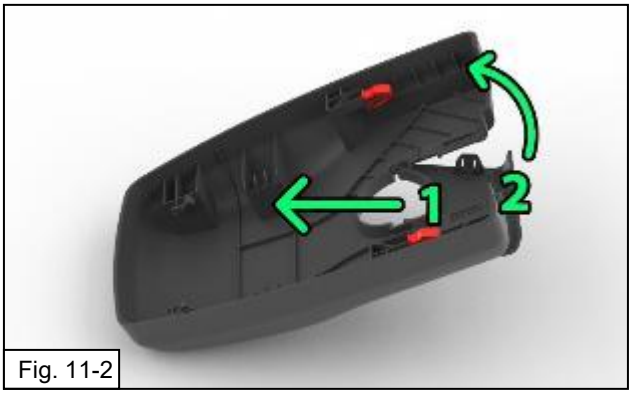


Fig. 11-2

10. Install the Y-Harness

(a) Locate the power mirror harness connector above the mirror to the passenger's side. It is the black 10 pin connector, between the rain sensor and the mirror mount. Unplug the connector. (Fig. 10-1)

(b) Connect the Y-Harness mating female connector to the vehicle side harness that was unplugged above (Fig.10-2)

(c) Insert the male connector into the original position on the mirror assembly (Refer back to Fig. 10-1).

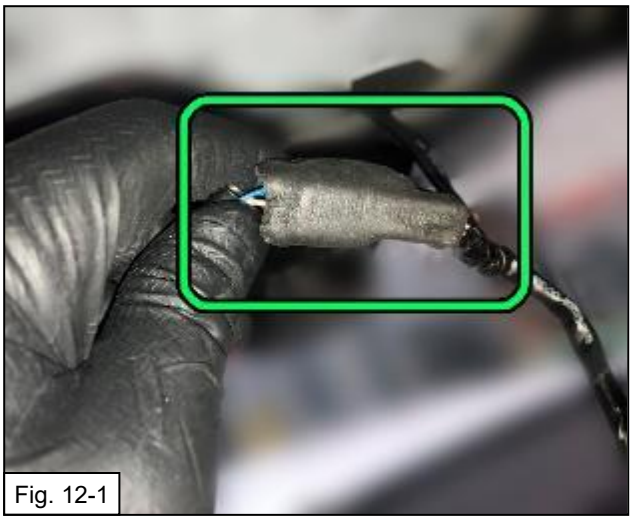
(d) Route Dash Cam connector of the Y-Harness above the plastic frame into the map light console space and connect the Harness to the Dash Cam pig tail. (Refer back to Fig. 8-2).

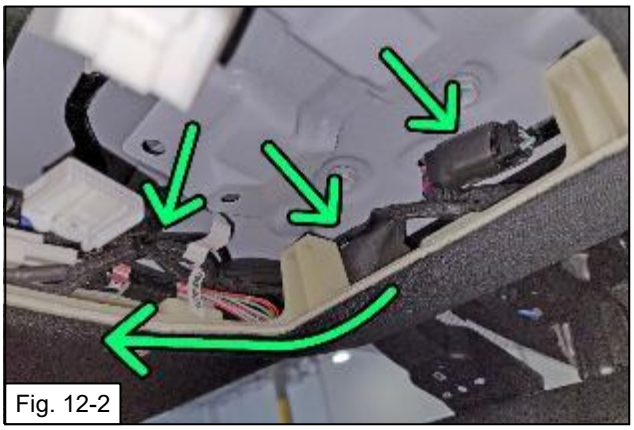
11. Reinstall the LSS Cover

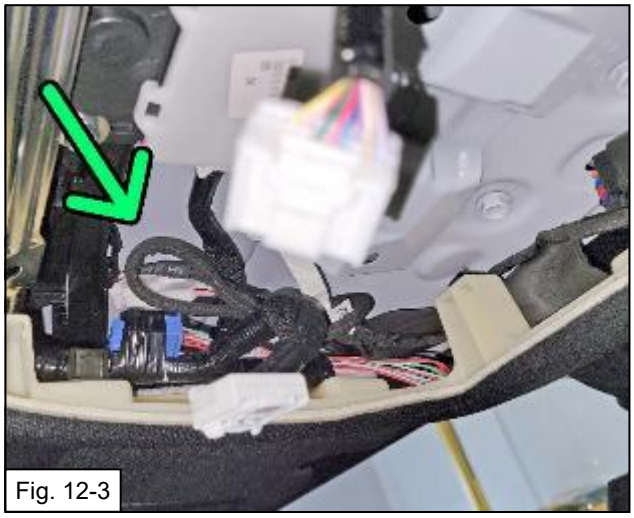
(a) Reinstall the LSS cover by pushing up on the cover along the windshield in the direction towards the headliner to engage the mounting clips into the cover base. (Fig. 11-1)

(b) Reinstall the mirror cover plate by hooking the front hooks into the edge of the LSS main cover opening and push up on the mirror cover to engage the clips to the main cover. (Fig. 11-2 – shown off the vehicle for picture clarity)

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Fig. 12-1


Fig. 12-2


Fig. 12-3

12. Route / Bundle Wire Harness

(a) Before proceeding with securing the harness, confirm the connectors of the Y-Harness to Vehicle and Dash Cam to Harness have been protected with the provided foam tape. Use the provided foam tape to minimize any potential rattle concerns. (Fig. 12-1)

(b) Route the Y-harness above the plastic frame of the headliner opening towards the driver's side. (Fig 12-1, 12-2)

(c) Secure the Dashcam harnesses and Fuse Holders 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. 12-2)

(d) 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. 12-3)

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

(f) **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. 13-1



Fig. 13-2

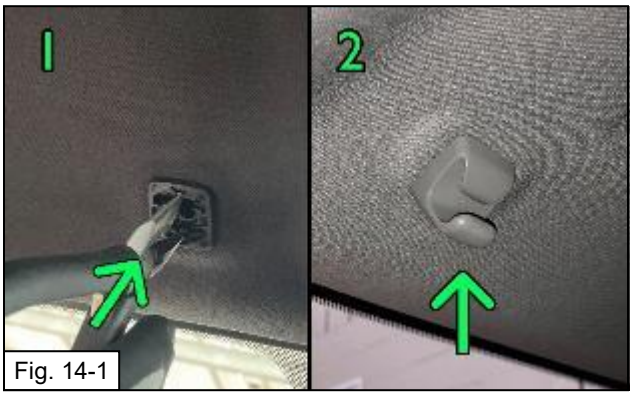


Fig. 14-1

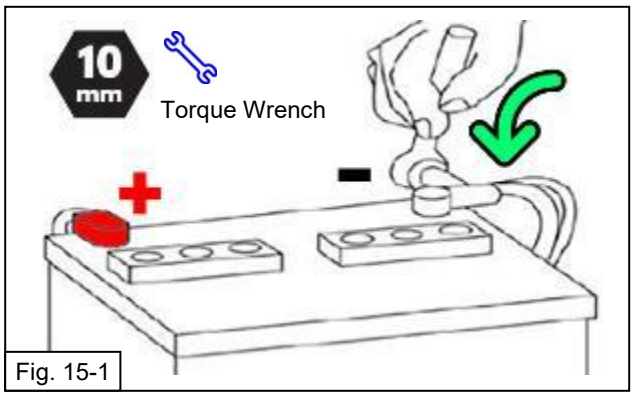


Fig. 15-1

13. Reinstall Overhead Console

(a) Re-connect harness for the overhead console, be sure to test map lights and sunroof later after battery connection.

(b) Check all console clips are in good condition and are present on the console. If any are still in the roof of the vehicle, a panel tool with a forked end can be used to pry them out, then reinstall in the console. (Fig. 13-1)

(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. If struggling, reposition wire harnesses and try again. (Fig. 13-2)

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

14. Reinstall Sun Visor Clips

(a) Insert the clip bases on both sides of the map light console, they should snap securely into place. (Fig. 14-1)

(b) Insert the visor clips by placing them in the correct orientation and pushing them directly up into the bases. (Fig. 14-1)

15. 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.

(d) Replace any Battery cover trim removed earlier in accessing the battery.

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

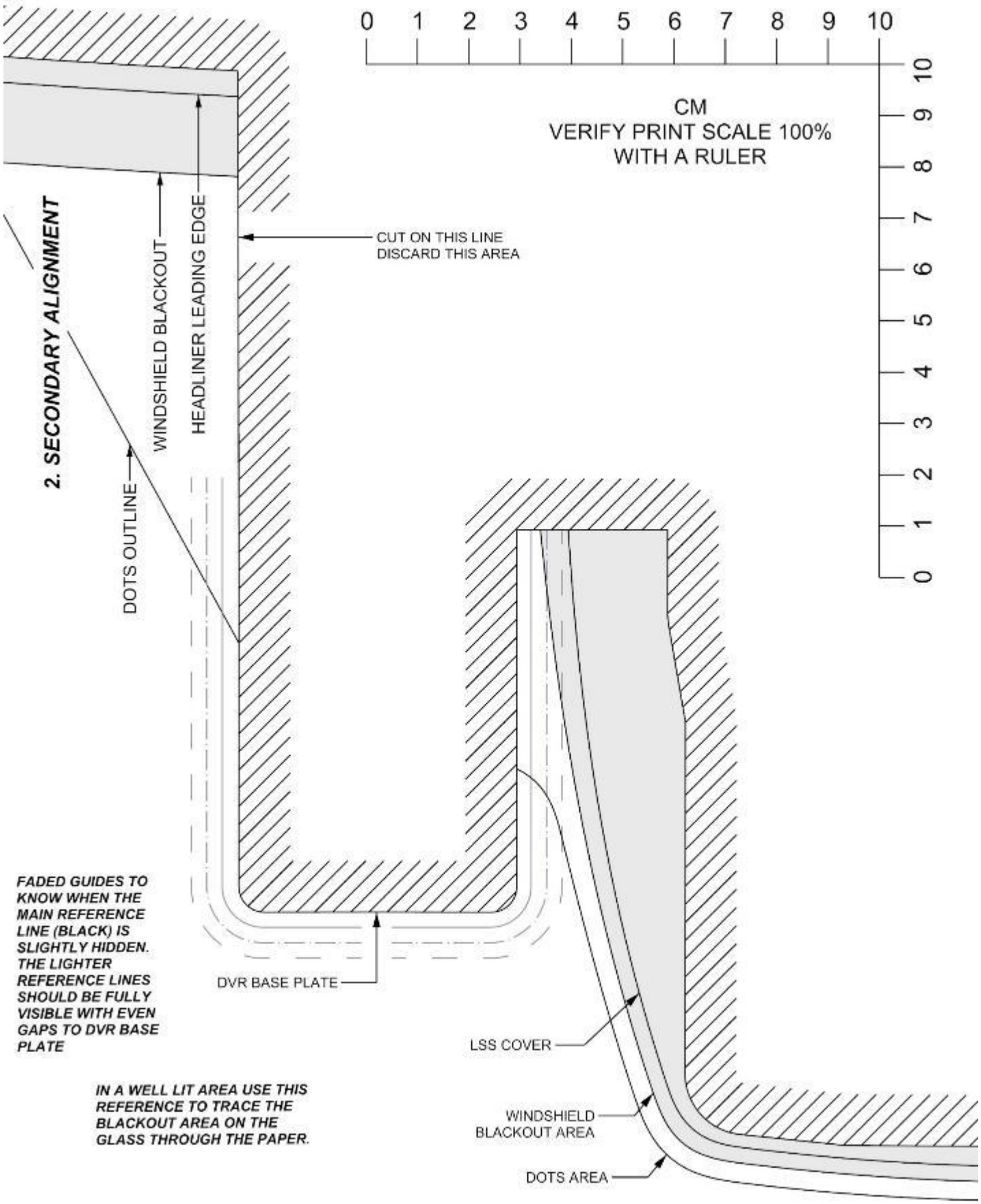
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17. Owner's Manual



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

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LEXUS INTEGRATED DASHCAM
2023+ UX LHS TEMPLATE

1. PRIMARY ALIGNMENT:
WINDSHIELD BLACKOUT

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Checklist - these points **MUST** be checked to ensure 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	Confirm standard lighting functions work properly.
☐ Standard exterior lights - low / high beams, left / right turn signal, emergency signal.	
☐ 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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