



Installation Guide  
**MK II System**

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August 13, 2025

# MirrorEye®

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**Volvo Trucks North America**

Provides all steps necessary for preparation, installation,  
system calibration and activation

# Table of Contents

## Volvo Trucks North America

### Overview

Getting Started	3
Troubleshooting	4
Tool Checklist	5
MirrorEye® System Components	6
Pre-Installation Task Checklist	11
Pre-Installation Precautions	12
Pre-Installation Interior Cab Preparation	13

### Installation of MirrorEye® System Components

MirrorEye® Harness Connection	15
System Connections	17
Electronic Control Module (ECU) Installation	21
FleetArc Telematics Module (FA 470) Installation	23
Driver's Controller/Joystick	24
DVR Installation (Optional)	26
Passenger Side Monitor Installation	27
Driver Side Monitor Installation	29
Class V Monitor Installation	31
Passenger Side Arm/Camera Installation	32
Driver Side Arm/Camera Installation	37
A-Pillar Cover Installation	42
Final Installation Steps	43
Mirror Cover Installation	54

### System Alignment/Calibration

Alignment of Cameras	45
Calibration of Distance Lines	47
Entering Critical Values	52

### MirrorEye® Activation Process

How to Activate MirrorEye® (Required)	60
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# Getting Started

## (Required)

The following provides the steps necessary to activate the MirrorEye® system with Cloud Services for GPS and Video Feeds. If not already in hand, begin by downloading/reviewing the BASIC PROCESS PDF, which can be accessed at:

<https://www.stoneridge.app/en/help/how-to-cloud-activate-mirroreye-i-mk-ii>

**ALERT:** Before starting the activation process, make sure to have the following information available before submitting an activation form. It is imperative for installers to take clear, decipherable photos of the serial numbers of the following components:

- The FleetArc FA470 Device ID #
- The VIN (or temporary VIN) of the Vehicle
- The Asset ID # or temporary internal ID # of the Vehicle
- The ECU # of any Monitor or Wing Camera (only one number needed)

### STEP 1.

Make sure the truck is turned on, with enough gas for any additional time it may take to activate your MirrorEye® system.

**NOTE:** Activation should take approximately 15 to 20 minutes, however in some cases, due to part failure or installation error, expect up to 4 hours for troubleshooting and communication with a developer or engineer.

### STEP 2.

Visit <https://www.stoneridge.app/activate>; enter truck information and device information and click "Submit." Any additional information you submit is optional and may improve the processing speed of your ticket.

### STEP 3.

#### Request Received

You should receive an email notification of your activation request, and the status of your ticket. If you have any questions or challenges, please reply to that email, or send a message to [incident@stoneridge.app](mailto:incident@stoneridge.app) or visit <https://www.stoneridge.app/tickets> to view the status of your tickets.

**NOTE:** If you do not have access to the portal to view tickets, you can request access here: <https://www.stoneridge.app/access>

### HOW TO CONTACT YOUR SERVICE TEAM

#### Email

[incident@stoneridge.app](mailto:incident@stoneridge.app)

#### Help Center Phone

888.624.4474

#### Help Center Hours

Monday - Friday  
8:00 a.m. - 8:00 p.m. EST

#### Visit Help Center

<https://www.stoneridge.app/help>

#### Reply to Emails

You can reply to any email you receive from the Service Team.

### STEP 4.

#### Request Processing

Your ticket will be submitted directly to a Stoneridge service agent who will review any details and contact you via email or phone to follow up with any questions or errors.

### STEP 5.

#### Certification Approved

Stoneridge software developers and engineers are on call to ensure a successful installation and activation. When installation is successful you will receive an email with details of the successful activation.

# Activation

## Frequently Asked Questions

### How do I register for the MirrorEye activation portal?

Activations are completed in My. Stoneridge app or MSA Portal. If you do not have access, request via Stoneridge MirrorEye technical support chat, email or call

### What happens if I do not complete the activation submission?

If you fail to submit an activation work order and complete the activation process, the MirrorEye system installed will not be able to send diagnostic alerts and will void the warranty of the MirrorEye system for your fleet customer.

### What do I do if I have questions during an installation?

If you have questions during an installation, please first refer to the MirrorEye installation guide, then reach out to MirrorEye Technical Support and a member of the team will promptly help answer your question.

### Does the order of the pictures I'm submitting matter?

NO, the improved activation process allows you to upload all install photos and then label for association. Required photos have been reduce to 2; FA470 Telematic Device and LTE Dongle if equipped.

### What do I do if the Get Inventory feature is not loading in the system components?

Verify the FA470 device is operating properly and is receiving connected status (6 or 7 blinks on the indicator led), View the device registered properly in the MSA portal and has firmware version greater than 12.0 Redirect to published knowledge base articles if needed on this topic.

### How to I reach MirrorEye Technical Support?

Live Chat on any of the Stoneridge Portal sites

Email: [Incident@stoneridge.app](mailto:Incident@stoneridge.app)

Call: M-F 8 – 8 EST 888-624-4474



Required Tool	Description	Quantity	Check-off
Drill Bit	3/8" Cobalt or Titanium Drill Bit	1	
Drill Bit	5/8" Cobalt or Titanium Drill Bit	1	
Drill Bit	1/4" Cobalt or Titanium Drill Bit	1	
Drill Bit	10mm Cobalt or Titanium Drill Bit	1	
Drill Bit	1/2" Cobalt or Titanium Drill Bit	1	
Step Bit	1-3/4" Step Bit	1	
Hole Saw	2-1/8" Hole Saw	1	
Hole Saw	1" Hole Saw	1	
Hole Saw	1-1/8" Hole Saw	1	
Hole Saw	1-1/4" Hole Saw	1	
Drill	Cordless 20v Drill	1	
Drill Battery	Extra 20v Drill Battery	1	
Rivet Nut Tool	Rivet Nut Securement Tool w/Impact Attachment	1	
Screwdriver	Phillips Head Screwdriver (size?)	1	
Screwdriver	Flathead Screwdriver (size?)	1	
Panel Removal Tool	Pry Tool for Removing Interior Panels	1	
Cutters	Flush Zip Tie Cutters	1	
Zip Ties	Zip Ties (6" to 12" in length)	30	
Pliers	Needle Nose Pliers	1	
Pliers	Groove Locking Pliers	1	
Electricians Torch	Butane Electricians Torch	1	
Rotary Tool	Dremel® or Similar Cutting Tool	1	
Cutting Blades	Cutting Blades for use with Rotary Tool	2	
Torque Bit Set	Torque Bit Set T15 – T60	1 set	
Bit Driver	12v Torque Driver (Impact Driver)	1	
Bit Adapter	Hex Bit Adapter for Torque Driver	1	
Wrench	Torque Wrench w/Adjustable Torque Settings	1	
Allen Wrench Set	Metric	1 set	
Allen Keys	#6, #5, #4, #3, #2.5, #2	1 of each	
Manual Wire Strippers	Wire Strippers w/Variou Wire Sizes	1	
Cones or Buckets	Used to Mark Distances Behind Truck	6	
Ladder	6' A-Frame Ladder	1	
Pin Removal Tool Set	Klein® Pin Extractor Set (or Equivalent)	1	
Terminal Crimpers	Klein® Terminal Crimpers (or Equivalent)	1	
Fuses	10 and 20 amp fuse (Required)	1	
Measurement Tool(s)	Measuring Tape, Measuring Wheel, Phone App. Capable of Measuring 80'	1	

**Class V Monitor**



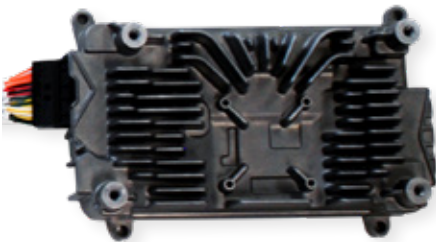
**Driver Side Monitor (12")**



**Passenger Side Monitor (15")**



**Electronic Control Module (ECU)**



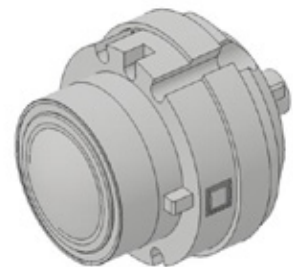
**Driver Side Camera (Right)**



**Passenger Side Camera (Left)**



**Blind Shot Camera (Right)**



**Display Controller**



**MirrorEye® Cloth and Sticker**



**FleetArc Telematics Box Contents w/FA 470 Module**



**Driver Side Bracket with Monitor Base and Screw Kit**



**Passenger Side Bracket with Monitor Base and Screw Kit**



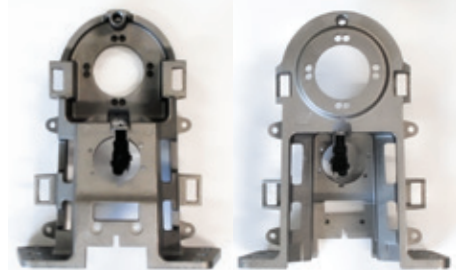
**Class V Monitor Bracket (Right)**



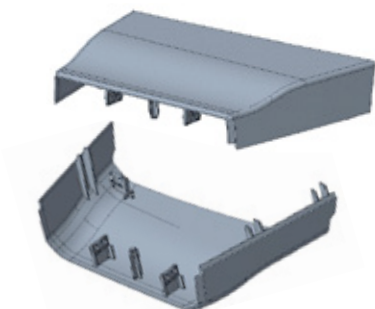
**Ram Kit for Class V Monitor (Central)**



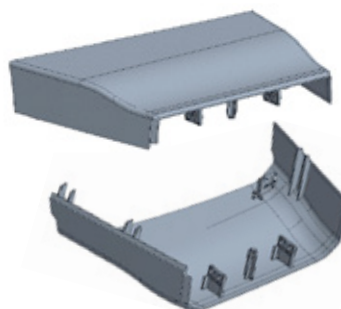
**Main Brackets**



**Top/Bottom Cover Extensions (Driver Side)**



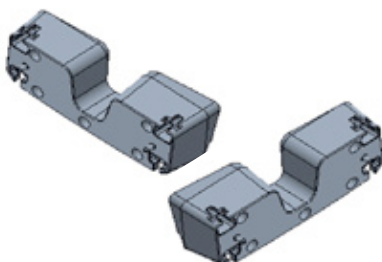
**Top/Bottom Cover Extensions (Passenger Side)**



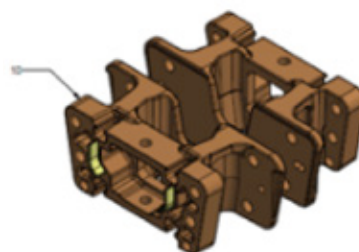
**Interface Brackplates**



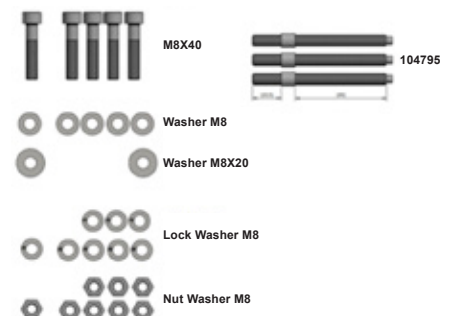
**Interface Brackets**



**Extension Brackets**



**Vehicle Interface Fastener Set**



**Set Cover Top Main Bracket**



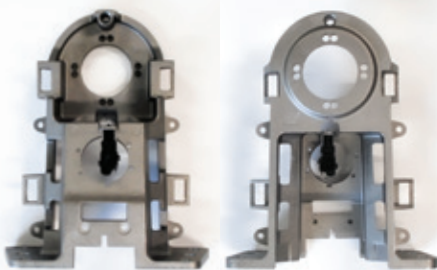
**Cover Bottom Main Bracket  
(Driver Side)**



**Cover Bottom Main Bracket  
(Passenger Side)**

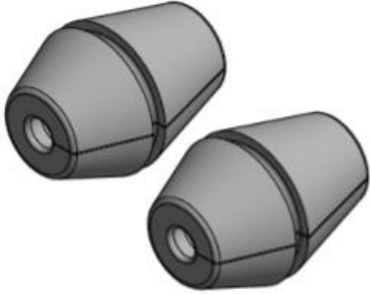


**Main Bracket Set**





**Set Grommet MK II Harness**



**Driver Coax Cable**



**Passenger Coax Cable**



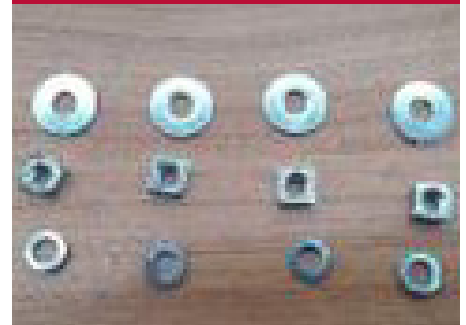
**Blind Spot Camera Coax**



**Wire Harness ME1 Adapter for  
RP1226 Blue Conn, DTNA**



**Controller Kit (Right)**



**Screws Kit for Monitor Interface  
(Driver Side)**

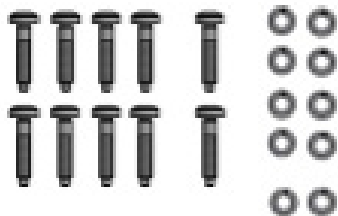


**Screws Kit for Monitor Interface  
(Passenger Side)**





**Set Fasteners Camera Arm**



**Set Fasteners Camera Bracket**



**Set Fasteners Monitor Interface Class V**



**Screws Kit for Connectivity Box**



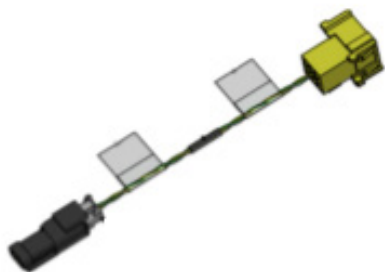
**FA470 Cable**



**Main Harness**



**Wire Harness MK II CAN Termination**



**ECU - Bracket**



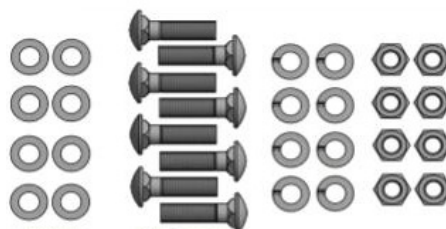
**ECU - Bracket Fastener Set**



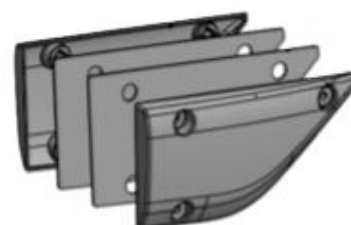
**Set Fasteners Door Mirror Removal**



**Set Fasteners Hood Cover**



**Mirror Removal Covers**



**DVR**



**DVR Bracket**



**Set Fasteners DVR Bracket**



**Ethernet Cable**



**USB**



**DVR Harness**



**DVR Bracket Double Side Tape**

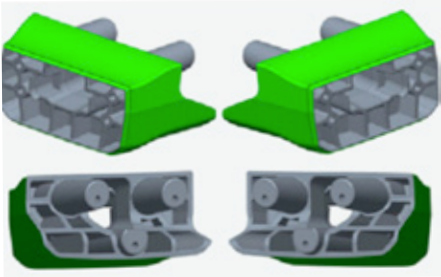


**Vehicle Interface Template**

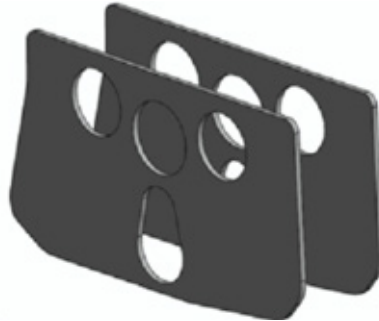




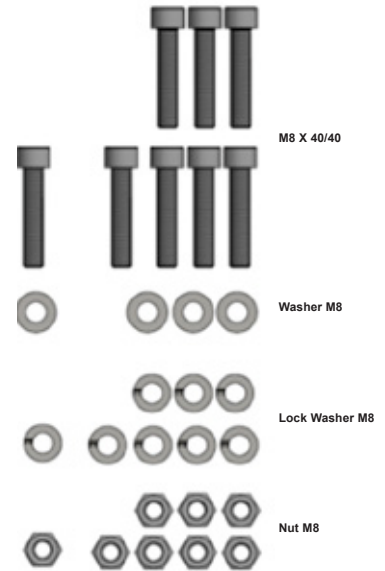
**Interface Brackets**



**Interface Gaskets**



**Fasteners Vehicle Interface**



MirrorEye® Install Task List		Check-off
1	Unpack and examine all materials in the MirrorEye Shipping box.	
2	Match Screw Kits with their stated components.	
3	Record the VIN and Serial #'s of the vehicle and the FA470 for the MirrorEye activation process. (page XX)	
4	Remove the relevant dash panels, a-pillar covers and headliner portions to prepare for the installation of the MirrorEye Components.	
5	Begin installation of the main MirrorEye ECU harness to the vehicle's accessory power source and CAN buss via the truck's Vehicle Power Distribution Module (VPDM)	
6	Install the MirrorEye Electronic Control Module (ECU) and connect the main MirrorEye ECU harness.	
7	Install the FA 470 according to the instruction in the box and connect it to the main ECU harness.	
8	Install the MirrorEye display controller on the dash panel within reach of the driver's seat.	
9	Connect the MirrorEye display controller to the ECU Harness.	
10	Confirm proper power connection via green light on controller and ensure connection to the VPDM. <b>NOTE:</b> the VPDM is operational when its affiliating fuse is installed (J5A5; if required, spare fuses can be found in the fuse box. Fuse installation is required.)	
11	Disconnect Power Source until installation has been completed.	
12	Carefully thread the main MirrorEye harness driver and passenger camera wing connector under/behind the dash up the driver's and passenger's side A-pillars to the forward headliner area. (Be careful not to kink the wires during the threading process)	
13	Connect the driver's and passenger's camera/monitor harnesses to the ECU and thread to the a-pillar monitor and Class V monitor locations and continue up to the camera wing locations at the headliner.	
14	Install the driver's and passenger's monitor interface brackets to the A-pillars.	
15	Install the Class V monitor to the headliner at the approximate center of the windshield.	
16	Install the driver's and passenger's exterior MirrorEye bracket wings above the doorframes.	
17	Position the passenger side blind spot camera (BSC) into the MirrorEye exterior bracket and thread the camera cable into the truck cabin.	
18	Thread the BSC cable to the MirrorEye ECU. (Be careful not to kink the cable during the threading process)	
19	Install the upper cover of the passenger side exterior arm and attach the passenger side MirrorEye Camera wings, carefully threading the cables through the bracket and into the truck cabin and connect to the appropriate camera/monitor harness and main ECU harness. (Be careful not to kink the cable during the threading process)	
20	Using the location and size of the A-pillar interface bracket for reference cut out a section of the a-pillar cover to accommodate the bracket.	
21	With the passenger side monitor (15") in hand connect it to the camera/monitor harness at the a-pillar and mount the monitor to the interface bracket. (Be careful not to kink the wires/cable during the threading process)	
22	Install the upper cover of the driver side exterior arm and attach the driver side MirrorEye Camera wing carefully threading the cables through the bracket and into the truck cabin and connect to the appropriate camera/monitor harness and main ECU harness. (Be careful not to kink the cable during the threading process)	
23	Using the location and size of the A-pillar interface bracket for reference cut out a section of the a-pillar cover to accommodate the bracket.	
24	With the driver side monitor (12") in hand connect it to the camera/monitor harness at the a-pillar and mount the monitor to the interface bracket.	
25	Re-connect the vehicle power source and confirm that the system powers up properly and that all monitors are showing the correct feed for their respective cameras.	
26	Properly seat the harness and camera cables in the dash, A-pillar and headliner locations and reinstall the dash panels, A-pillar covers and headliner to their original configuration. (Be careful not to kink the wires/cable during this process)	
27	Begin system calibration and monitor adjustment (page XX)	
28	Complete virtual checkout (page XX)	



1

#### Photo Documentation is Essential

- 1 Prior to installation: take “before” pictures of the interior cab area(s) and exterior area above the door frame(s) – this helps ensure the truck is returned to its original condition
- 2 Make sure to take pictures noting any existing modifications or damage to the truck prior to beginning the install
- 3 At the end of the installation process, make sure to take pictures documenting the completed installation

2

#### Order of Installation

The task list (previous page) is ordered for the efficient installation of MirrorEye® components – however, installers should determine up front what order of installation works best for them.

For example, some installers choose to begin the process by conducting vehicle modifications first (e.g., measurements/drilling for varying brackets), followed by installation of components.

3



Before beginning installation, it is recommended that components are matched with their corresponding screw(s) kit. This will avoid the incorrect installation of screws, which can lead to permanent monitor damage.

**NOTE:** Red Loctite® is present on all monitor screws

4



Please take every measure to avoid kinking of wires when working with/handling the main MirrorEye® ECU wiring harness (Y-harness). Kinked lines can lead to communications interruptions between components and the system network.

1



Prior to the installation of MirrorEye® system components, the A-pillar covers (1) center dash panel (2) should be removed and the headliner (3) should be adjusted to allow for access at the center windshield.

2



**NOTE:** On A-pillars, begin with removal of grab handles

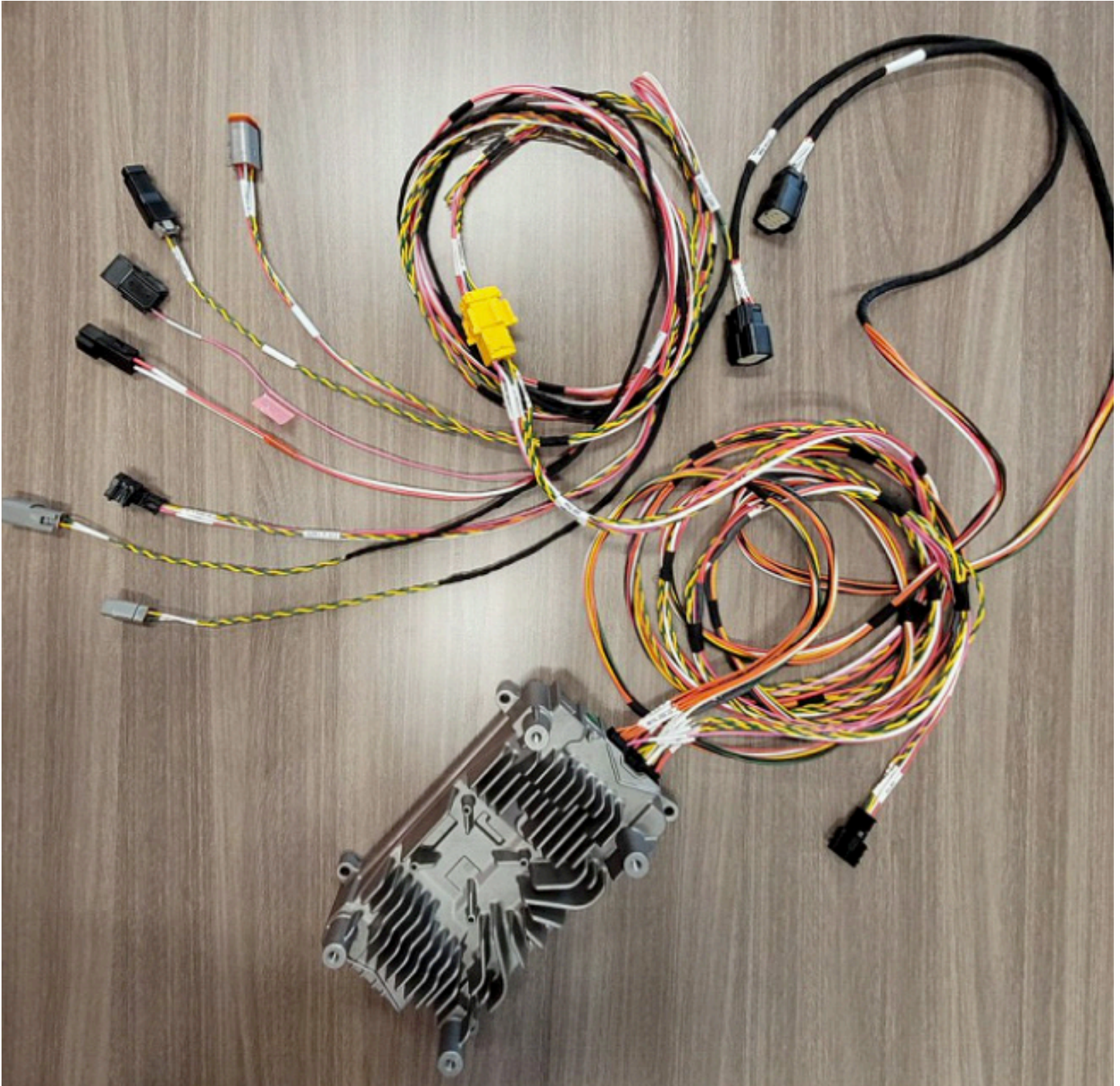
A close-up photograph of two circular camera lenses mounted on a black plastic housing. The lenses are positioned side-by-side. Below the lenses is a recessed rectangular area. A thin red horizontal line is visible across the middle of the image.

# Installation



Begin installation of the main harness to a vehicle accessory power source and CAN Buss

1

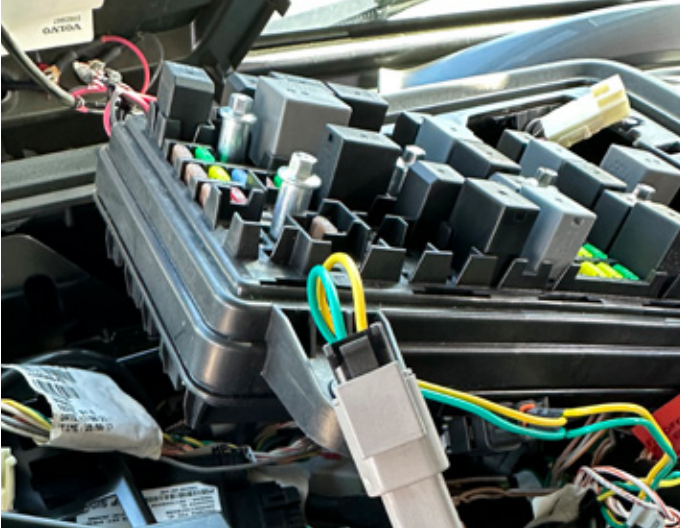


Become familiar with the main MirrorEye® ECU harness, it's orientation and any portion of the connection points

**NOTE:** Be sure to take every precaution to avoid kinking the main cable harness. Kinked lines can lead to communications interruptions between components and the system network.



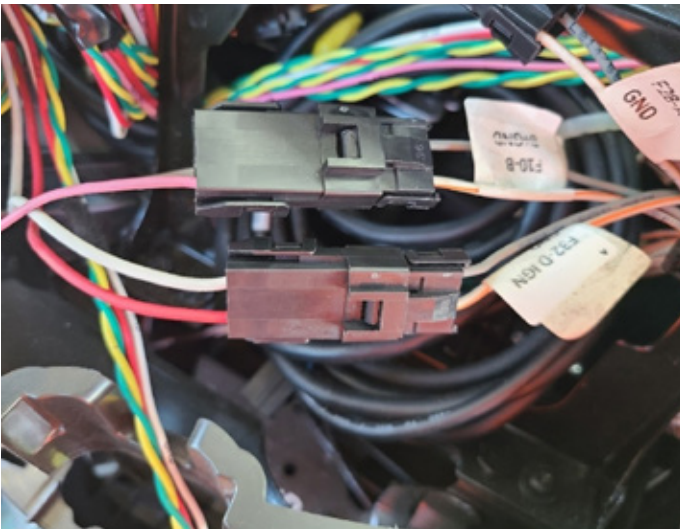
2



Vehicle Interface Connection



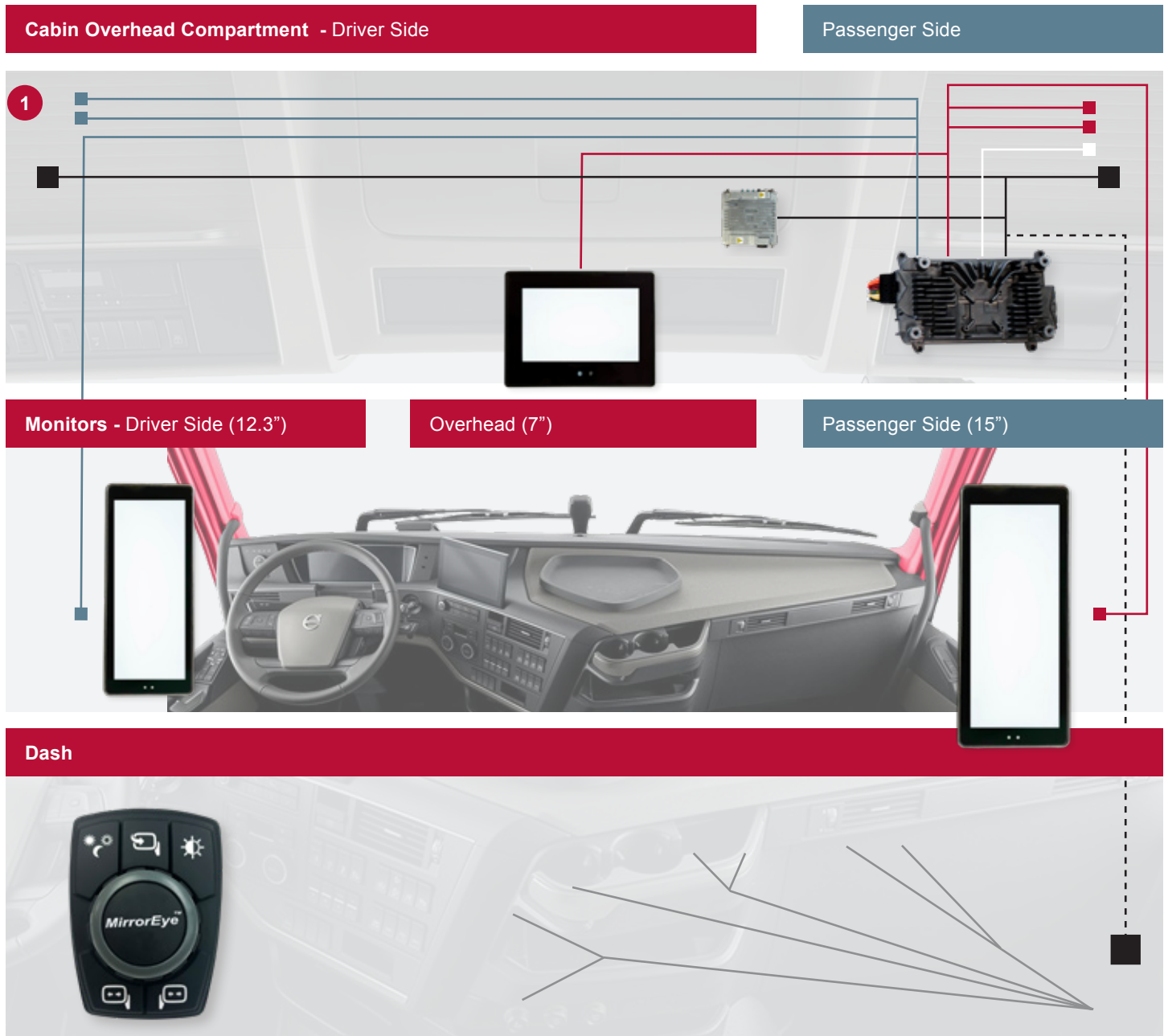
CAN 1, 2



KL 15, 30

Make primary connections between cabin wiring harness (CAN 1, KL 30, KL 15) and relating Volvo vehicle connections. Carefully handle/manage harness and connections throughout the installation process.

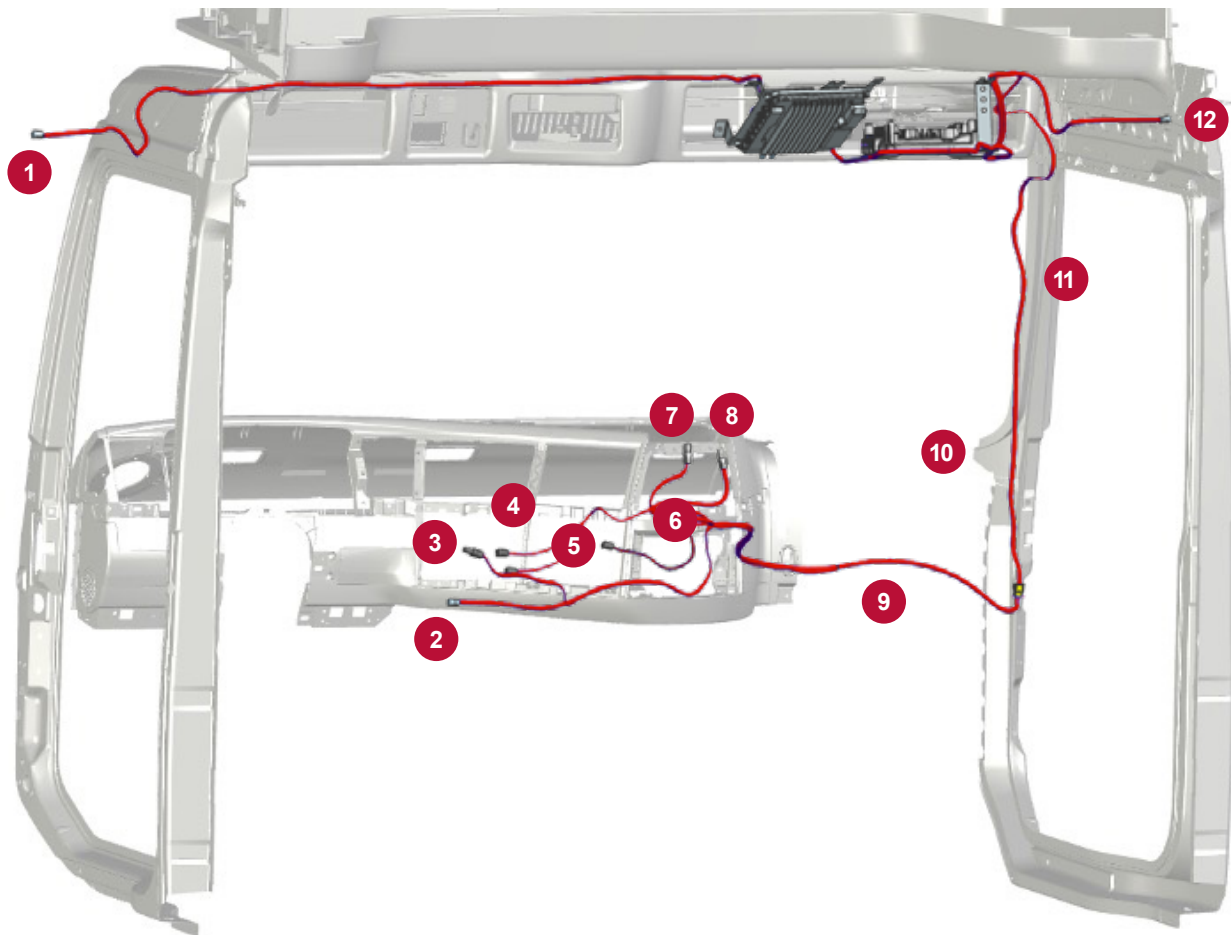




## Wiring Diagram

- |  |   |   |  |
|--|---|---|--|
| <b>A.</b> Dash Harness<br>Main Harness<br>Part Number 1003738<br>Volvo Part Number | <b>C.</b> QUADFAKRA -<br>COAX Cable<br>Passenger Side<br>Part Number 1004113<br>Volvo Part Number | COAX Cable<br>Driver Side<br>Part Number 1004113<br>Volvo Part Number | Part Number 1004114<br>Volvo Part Number |
| <b>B.</b> Overhead Harness<br>Main Harness<br>Part Number 1003103                  | <b>D.</b> QUAD FAKRA -  | <b>E.</b> SINGLE FAKRA -<br>COAX Cable<br>Class V Camera              | <b>1.</b> Camera Wing                    |
|  |   |   | <b>1.</b> Controller                     |
|  |   |   | <b>1.</b> FA 470                         |

2



## Main MirrorEye MKII Prewire Harness

Option 1 - New Class V Monitor

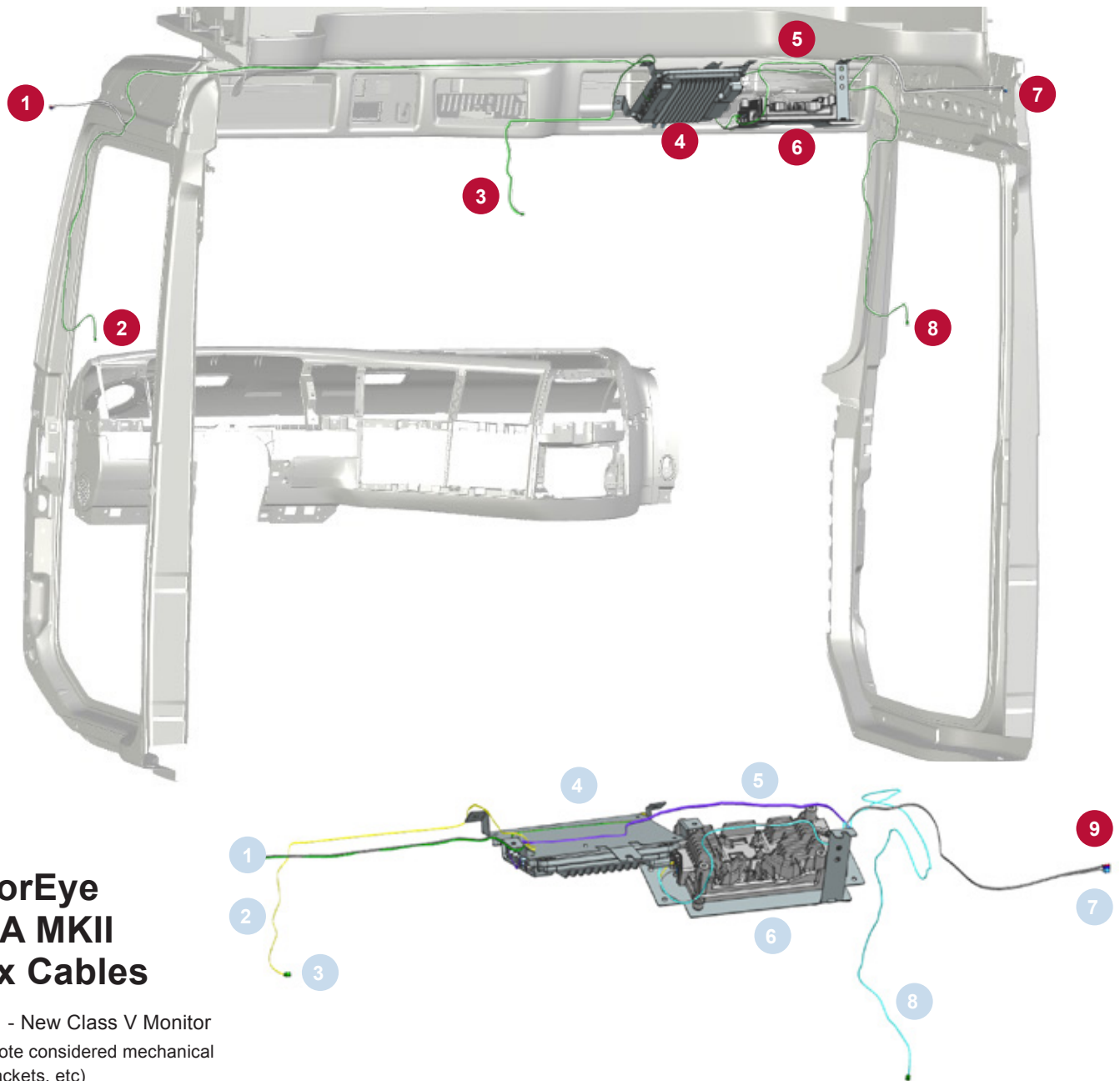
**NOTE:** Note considered mechanical parts (brackets, etc)

1. Driver Side Wing Camera
2. Controller
3. CAN Termination
4. Powering Side
5. KL15
6. FA 470
7. Female Vehicle CAN
8. Male Vehicle CAN
9. Dash Main Harness
10. Fuse Box (KL15, KL30, Ground)
11. Overhead Main Harness
12. Passenger Side Wing Camera

ECU views for reference



2



## MirrorEye VTNA MKII Coax Cables

Option 1 - New Class V Monitor

**NOTE:** Note considered mechanical parts (brackets, etc)

- |                             |                                |
|-----------------------------|--------------------------------|
| 1. Driver Side Camera COAX  | 5. Ethernet Cable              |
| 2. Driver Side Monitor COAX | 6. ECU                         |
| 3. Class V Monitor COAX     | 7. Passenger Side Camera COAX  |
| 4. DVR                      | 8. Passenger Side Monitor COAX |
|                             | 9. Class V COAX                |

ECU views for reference

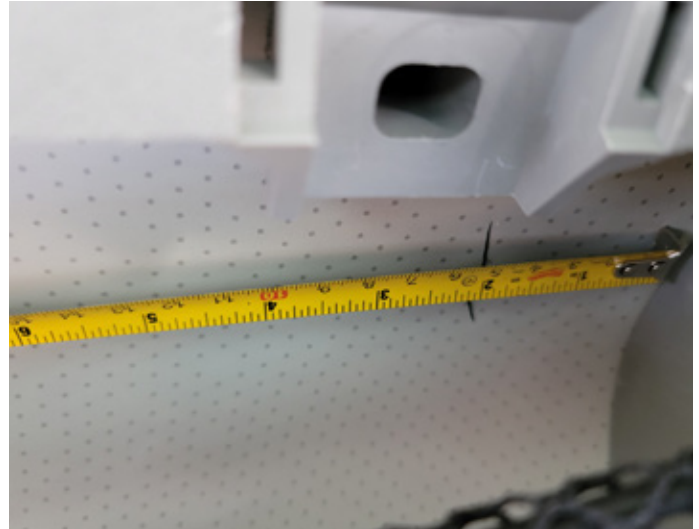


1



Remove the overhead console bolt located on the outboard passenger side of the vehicle

2



Mark location for pass-through of relating coaxial cables through headliner material (approximately 2" from interior wall of passenger side overhead console)

3



Cut hole and pull-through relating passenger side cables for connection to ECU

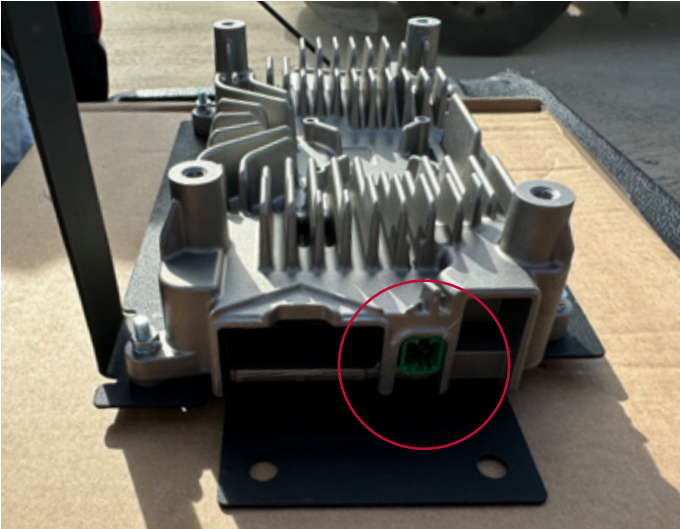
4



Attached ECU to its bracket with relating fastener set

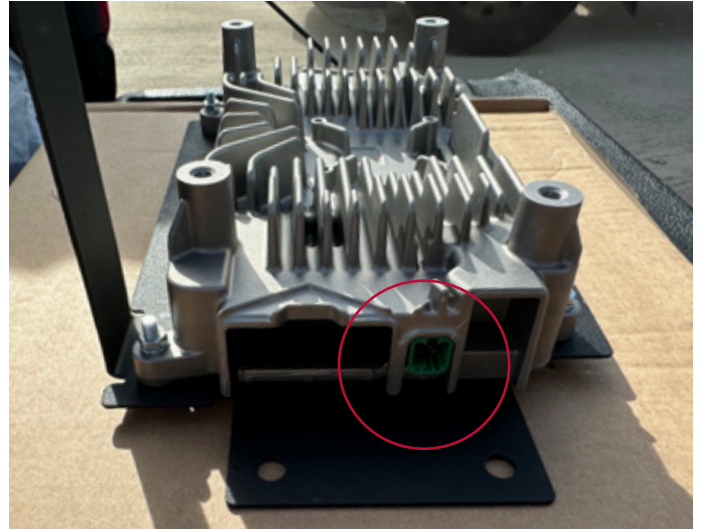


5



Connect the ECU to the main MirrorEye® wiring harness via relating port on right side of unit (L-bracket side)

6



Connect coaxial cables relating to passenger side monitor, camera and Class V (blind spot) camera via relating ports on opposite of ECU

7



Connect coaxial cables relating to driver side monitor and camera, monitor coax and Camera coax

8



Position the ECU/bracket in passenger side overhead console, then affix the L-bracket using console bolt removed earlier



9



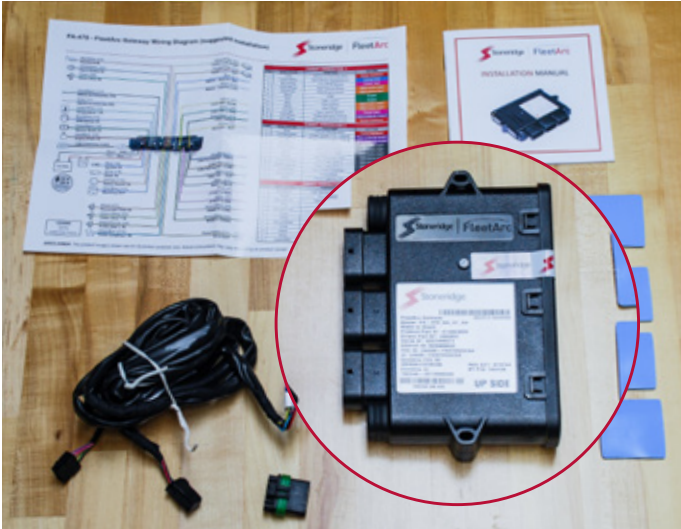
Cut out netting and install close-out panel

10



Route relating cables behind A-pillars

1



Locate the telematics module (FA 470) in the FleetArc box

2



Assemble the connectors as depicted in the provided FA 470 schematic – note that the center shroud is for an additional connector (blind). Each module connector is numbered (CN 1,2,3).

3



Proceed with the telematics module (FA 470) connection to the main harness. **NOTE:** Incorrect connection of the telematics module will prevent certification during the cloud activation/virtual checkout (required)

4



Add Velcro® to FA 470 module base for mounting, as depicted.

5



When mounting the FA 470 module, ensure that it lays flat (horizontally) to ensure optimal reception

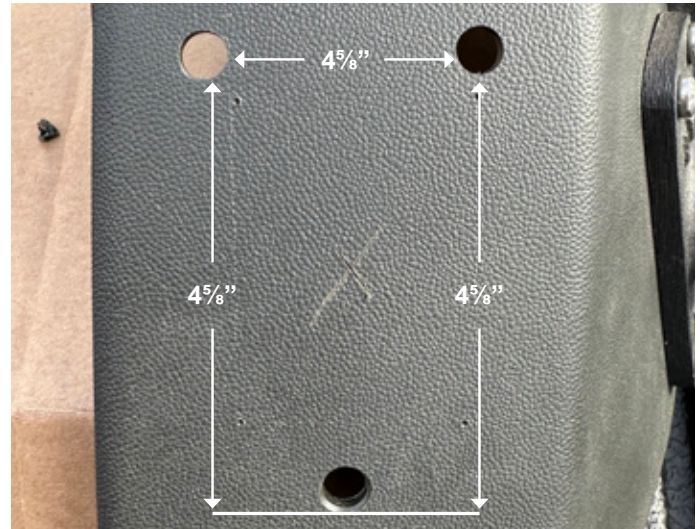


1



The MirrorEye® controller/joystick is installed on the dash panel to the right of the driver (see image above). On CNG-equipped Volvo trucks, the relating CNG gauge will need to be relocated to the position depicted above (red circle)

2



Begin installation by making three holes with a 1/4" drill at locations depicted

3



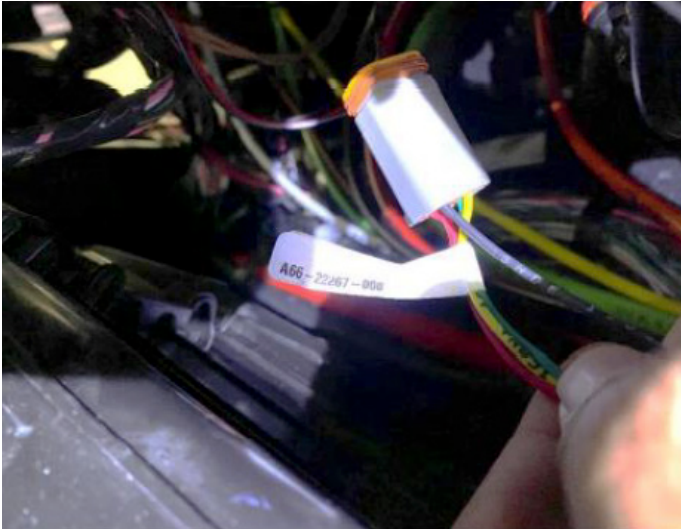
Create the cut-out hole using a 2 1/8" tool at the location depicted.

4



Mount controller on panel using corresponding screw set

5



Connect the controller to the main wiring harness, then mount in place

6



Installed controller (including relocation of CNG gauge)

7



**NOTE:** Take note of the light indicators — if green lights do not turn on, there is a misconnection within the system. If the mis-connect cannot be identified, make contact with Stoneridge representative(s)

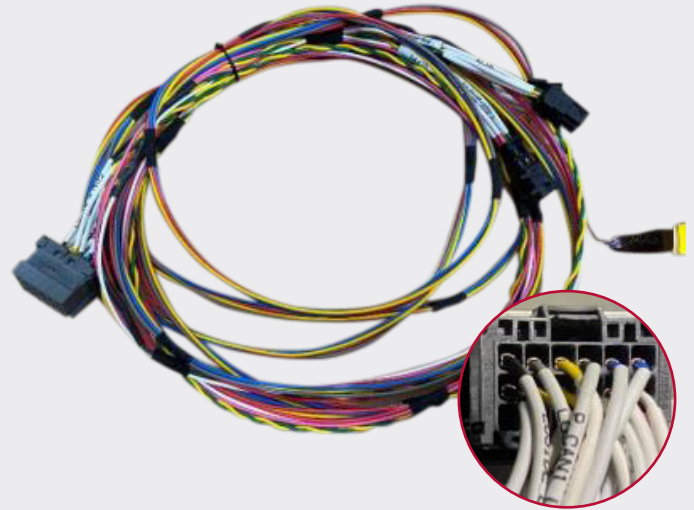


1



Using the corresponding screw set,  
attach the DVR module to its bracket

2



Locate the DVR harness (depicted)  
and connect to the DVR module

3



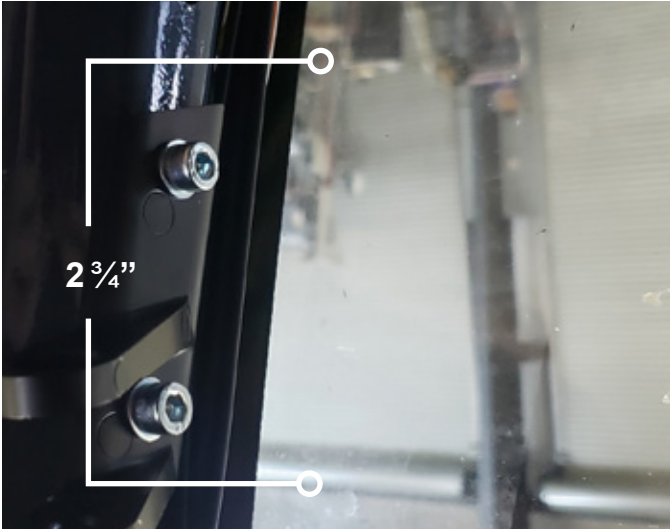
Connect relating USB cable to the DVR, as depicted

4



Using correlating screw set, mount DVR/bracket  
combination in upper console location

1



Refer to the image above for determining hole locations on the passenger side A-pillar for bracket mounting

2



Use the monitor bracket as a template to measure hole locations on the passenger side pillar. Make two (2) holes with 10mm drill bit and insert the Riv-Nuts using Riv-Nut puller tool

3



Assemble bracket with corresponding screw set

4



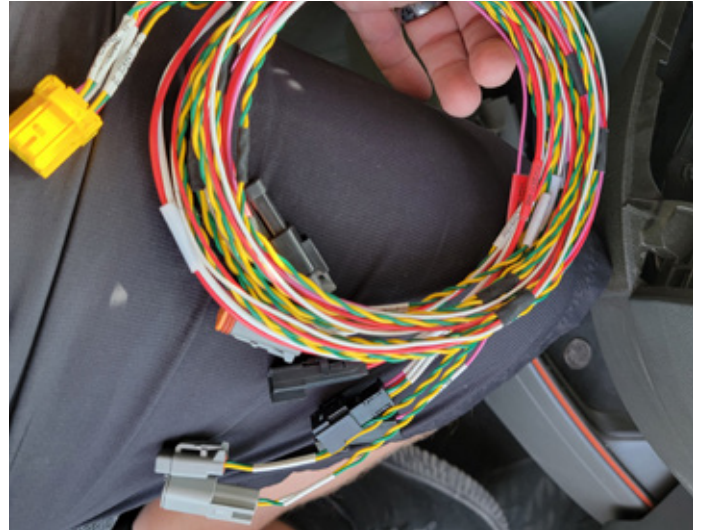
Install RAM® base to the monitor with relating kit set screws (NOTE: Red Loctite® should be on screws; passenger-side monitor is 15")

5



Mount the passenger side monitor joining RAM® base and relating bracket

6



Ensure connections between the monitor, main wiring harness and relating passenger side coax cables; route cables within A-pillar

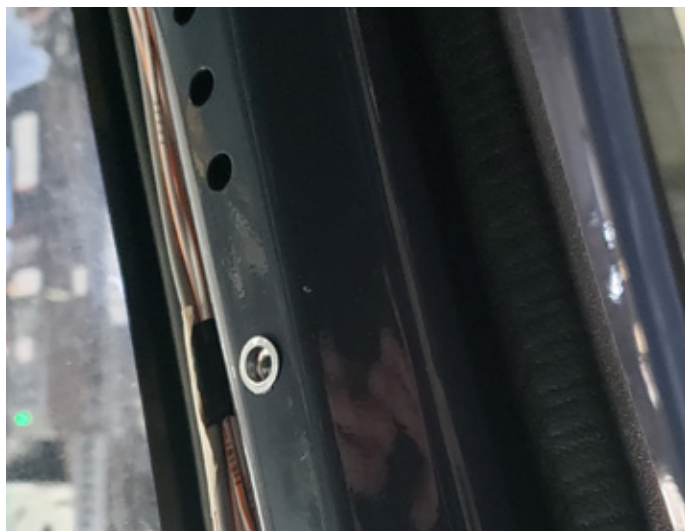


1



Refer to the image above for determining hole locations on driver side A-pillar for bracket mounting

2



Use the monitor bracket as a template to measure hole locations on the passenger side pillar. Make two (2) holes with 3/8" drill bit and insert the Riv-Nuts using Riv-Nut puller tool

3



Assemble bracket with corresponding screw set (Allen wrench)

4



Install RAM® base to the monitor with relating kit set screws (NOTE: Red Loctite® should be on screws; passenger-side monitor is 15")

5



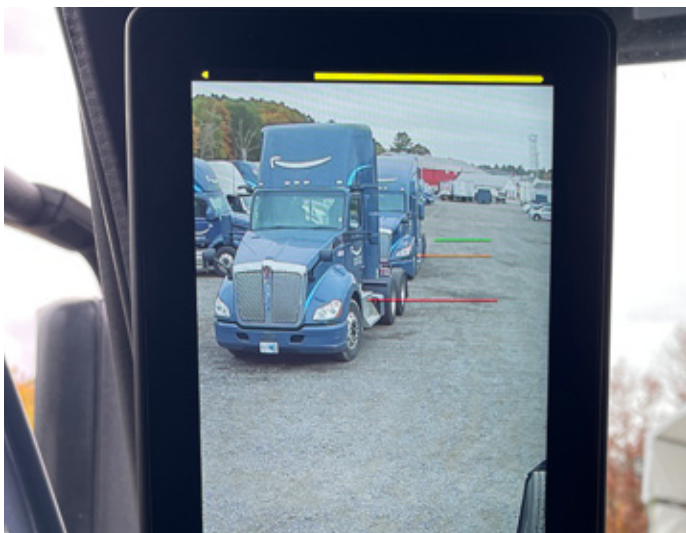
Mount the driver side monitor joining RAM® base and relating bracket

6



Ensure connections between the monitor, main wiring harness and relating driver side coax cables; route cables within A-pillar

7



Installed, operational driver's side monitor



1



Uninstall point screws from upper console to install the Class V monitor bracket

2



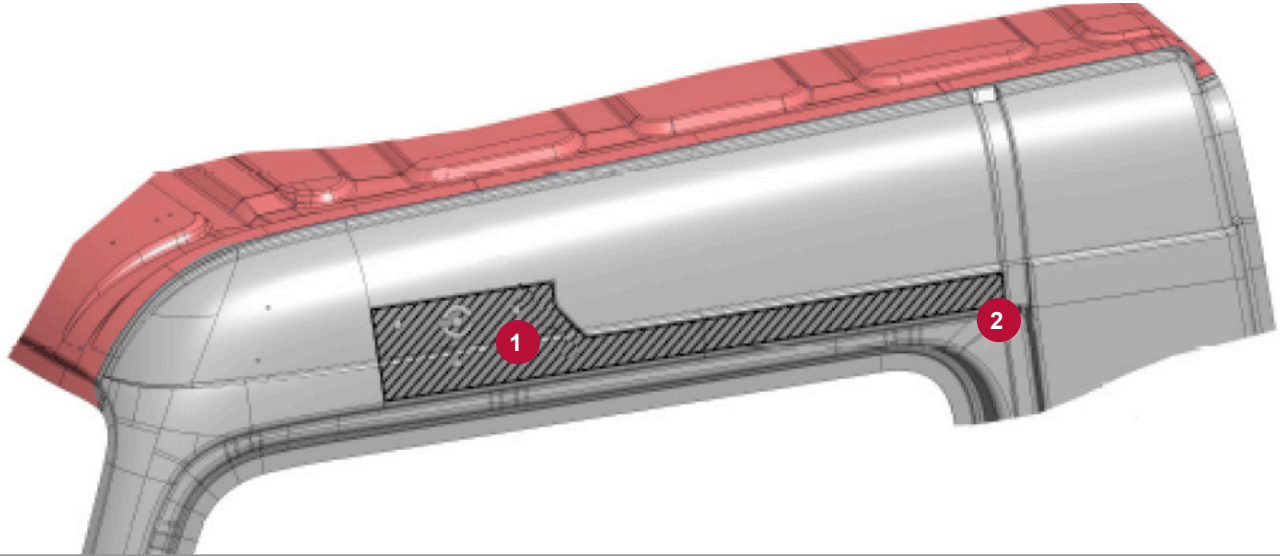
Assemble the monitor bracket and kit screws for Class V monitor interface

3



Assemble the central bracket and RAM® base, adjusting with an impact driver. Install monitor with the screws that are indicated in the kit to assemble the bracket; USE SHORT SCREWS with red Loctite® visible

**VNR/VNL 300 - Day Cab**



1) Interface Bracket Template (2) starting point edge for template placement

**VNL 740 - Sleeper Cab**



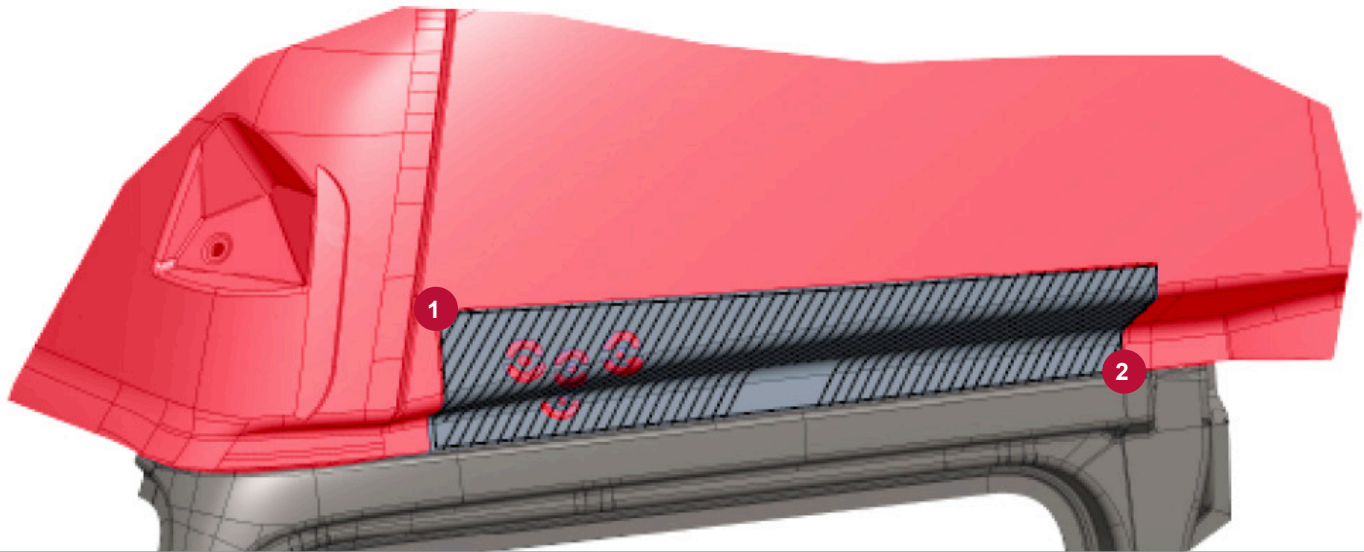
1) Interface Bracket Template (2) starting point edge for template placement

**VNR/VNL 760 - Sleeper Cab**

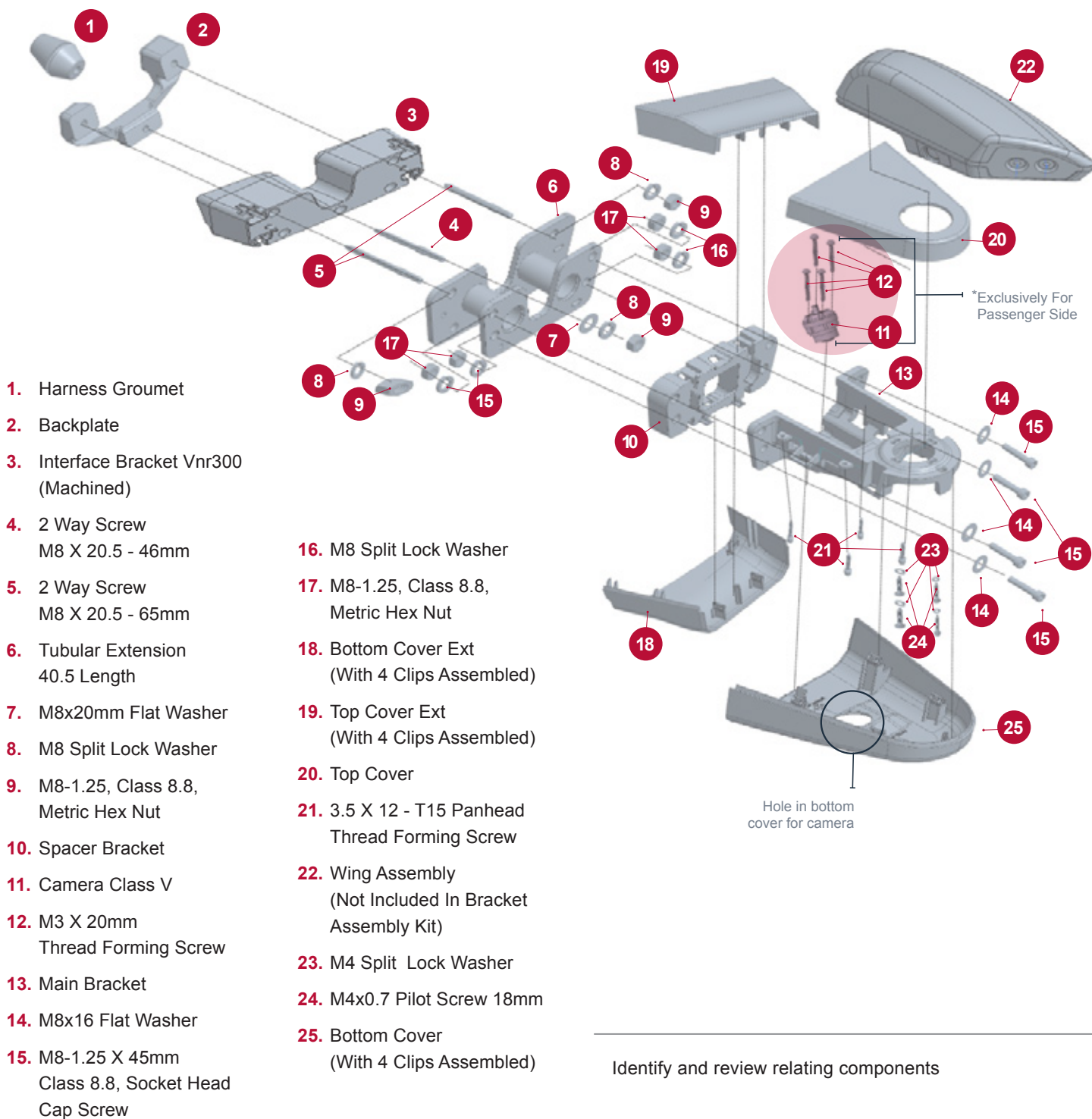


1) Interface Bracket Template (2) starting point edge for template placement

**VNL 860 - Sleeper Cab**



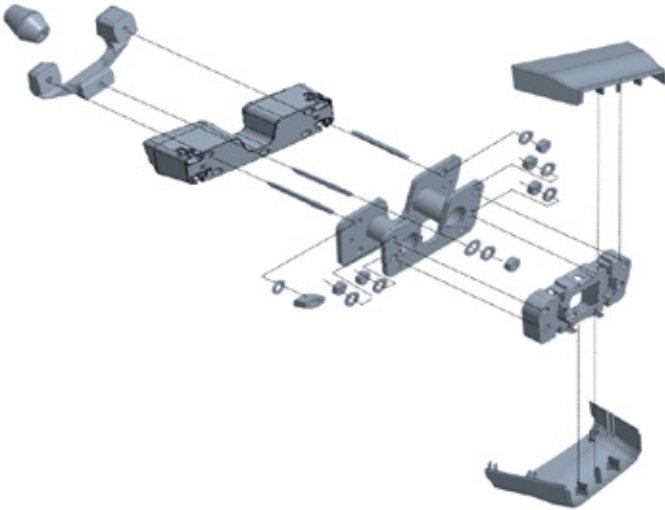
1) Interface Bracket Template (2) starting point edge for template placement

**1**
**EXAMPLE SHOWN VNL300**


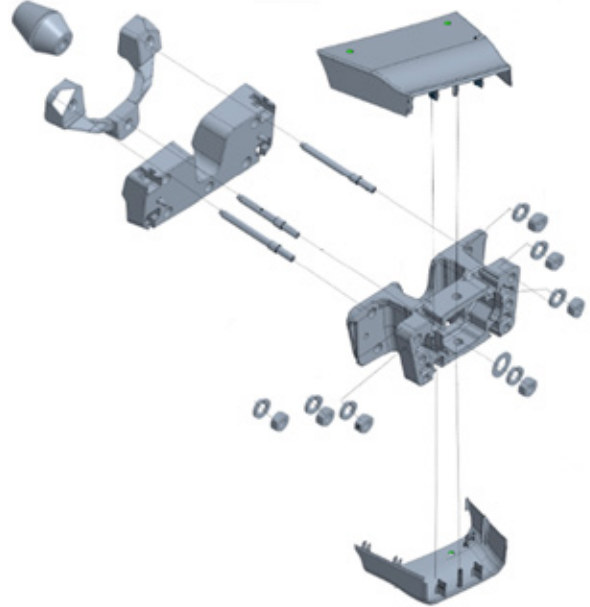
Identify and review relating components



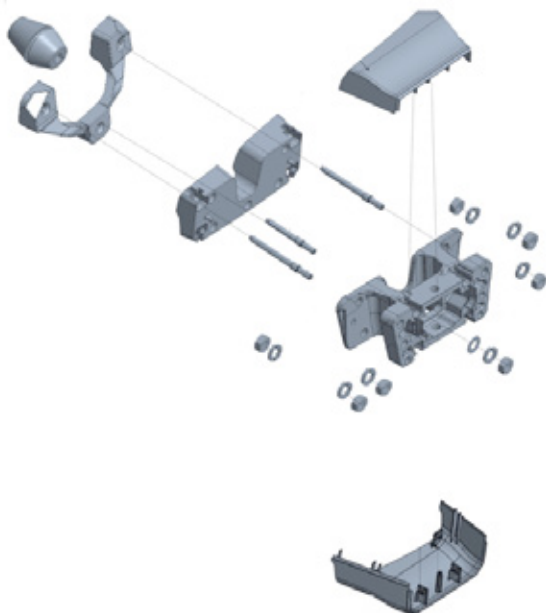
**VEHICLE INTERFACE VNL300**



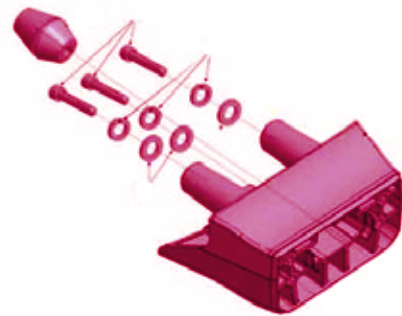
**VEHICLE INTERFACE VNL740**



**VEHICLE INTERFACE VNL760**



**VEHICLE INTERFACE VNL860**



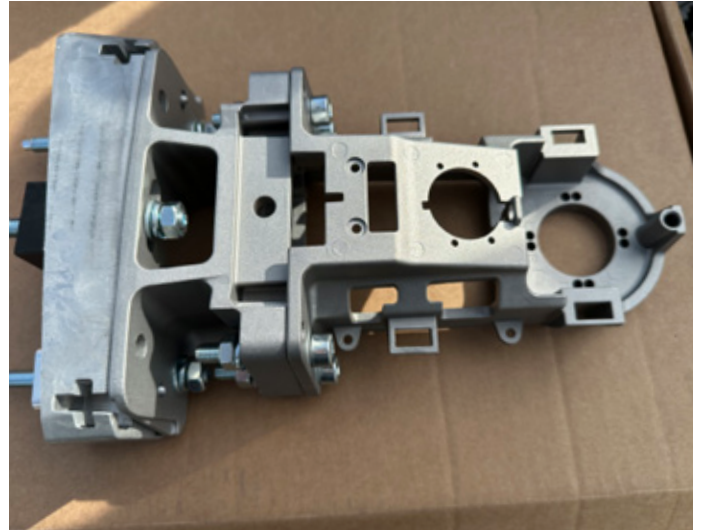
See installation on page 39

2



Use template provided to identify mounting M8 mounting hole locations (3), and center-located 1" cable pass-through hole

3



The passenger side camera/arm assembly consists of four components: (1) Backplate Bracket (interior side) (2) Interface Bracket (exterior side) (3) Extension Bracket (4) Main Bracket/Arm

4



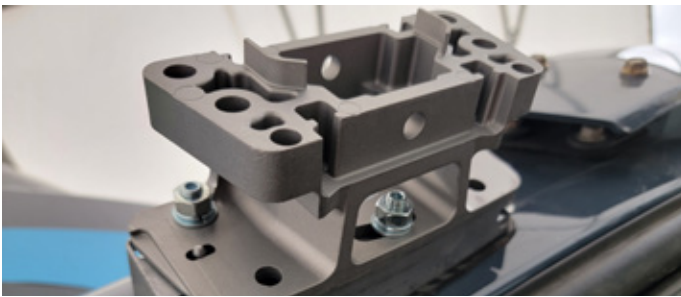
Identify the Backplate Bracket, then affix from interior of passenger side (depicted) with corresponding M8 two-way screw set

5



Place relating exterior gasket and center-hole grommet in place, then align the Interface Bracket by with the M8 two-way screw set

6



Align and attach the Extension Bracket with corresponding nuts/M8 two-way screw set

7



Route the relating passenger side harness and coax cables relating to Wing Camera and Class V (blind spot) camera through cable pass-through hole

8



Attach the Main Bracket/Arm with corresponding screw set and route affiliated cables/connections

9



Affix upper and lower Extension Covers

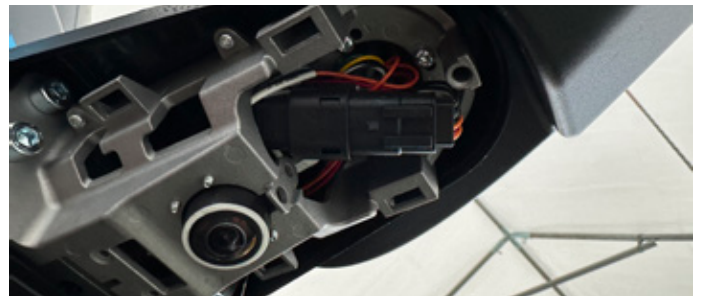


10



Install the Class V (blind spot) camera in the center position of the Main Bracket/Arm (as depicted), while being careful to not scratch/damage the lens

11



Using the corresponding fastener set, install upper and lower covers to the Main Bracket/Arm

12



Install passenger side camera wing to Main Bracket/Arm (completed passenger side arm/camera, assembly depicted)

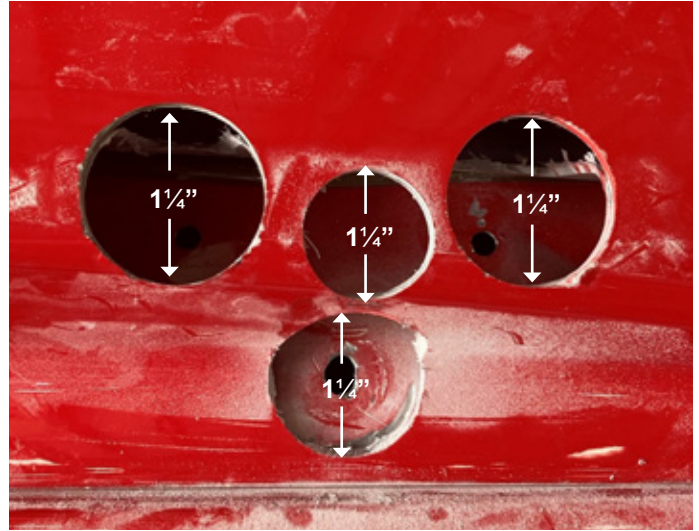


1



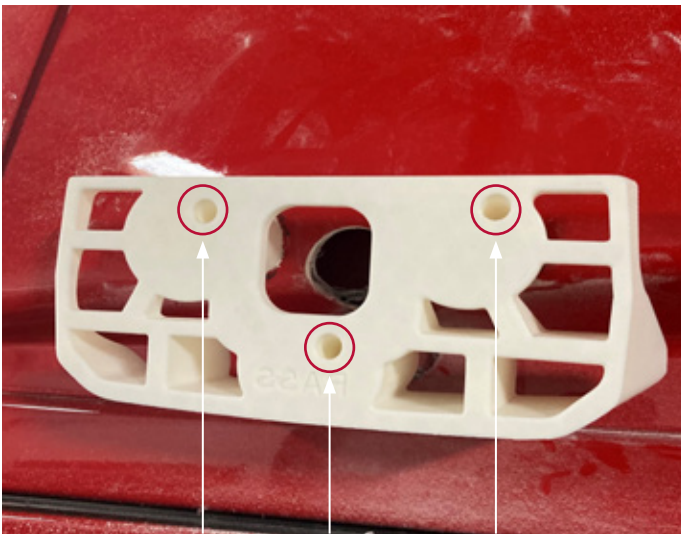
Clean Surface of truck where template is being placed.  
Place template use illustration for reference.  
Mark bracket holes with marker.

2



Drill the 4 1 1/4" holes that were marked in step 1

3



Use of Jig. Drilled through 3 bolt holes through  
sheet metal body then through cage

4



Inside truck after drilling through 3 layers

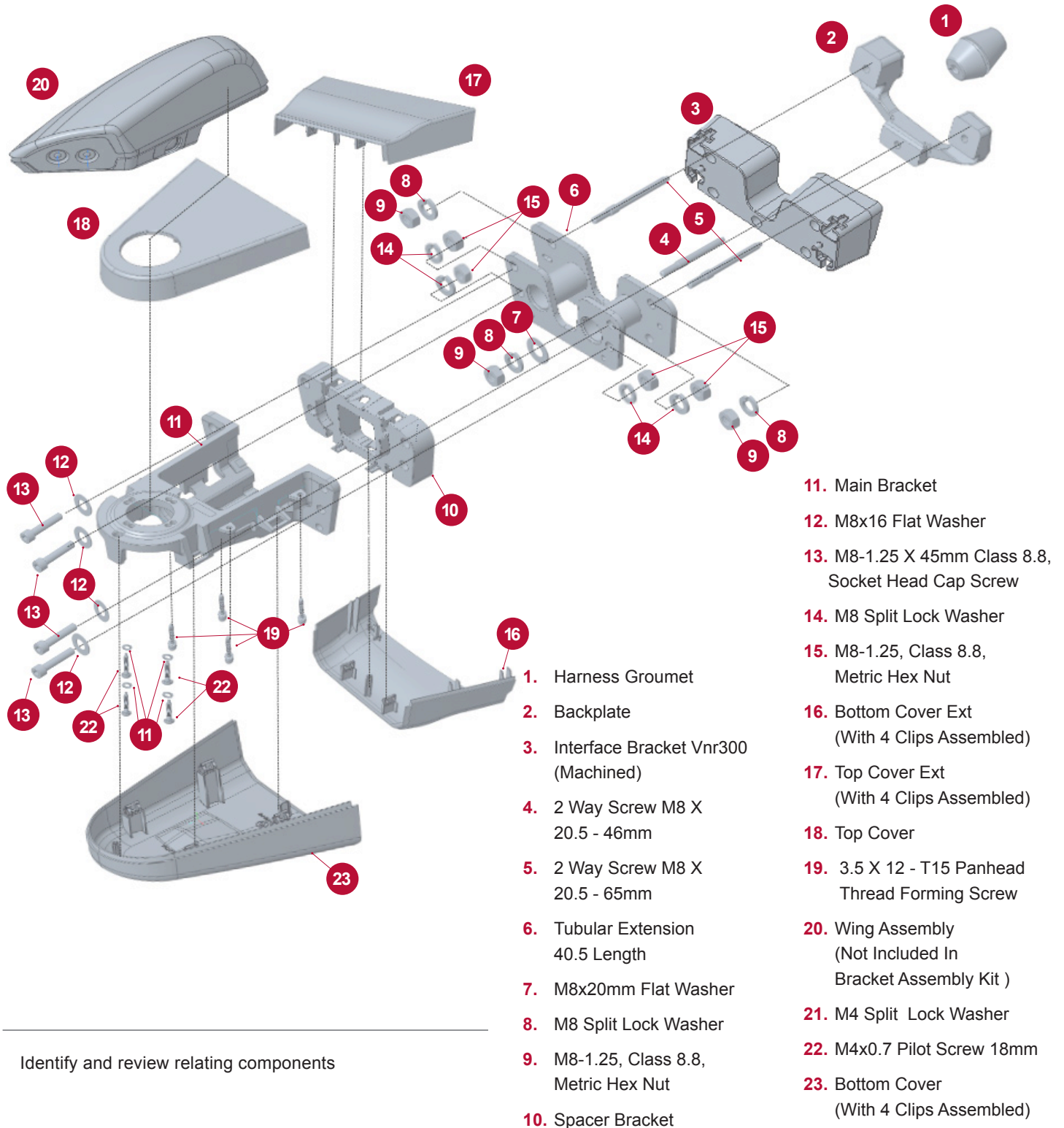
5



Text

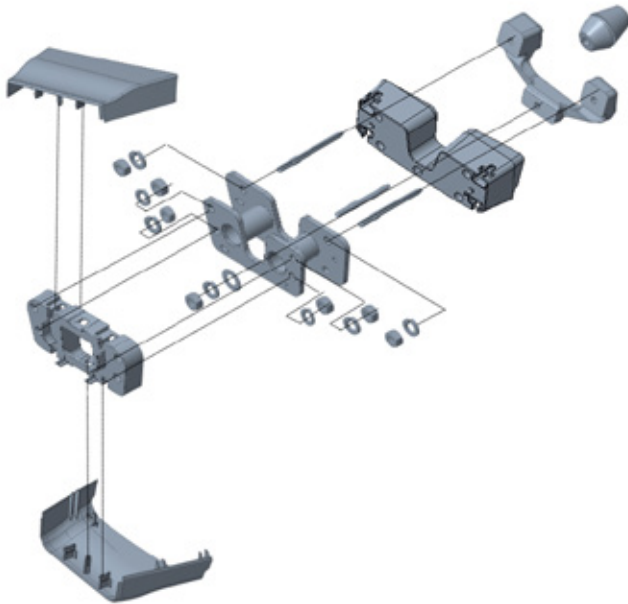
1

### EXAMPLE SHOWN VNL300

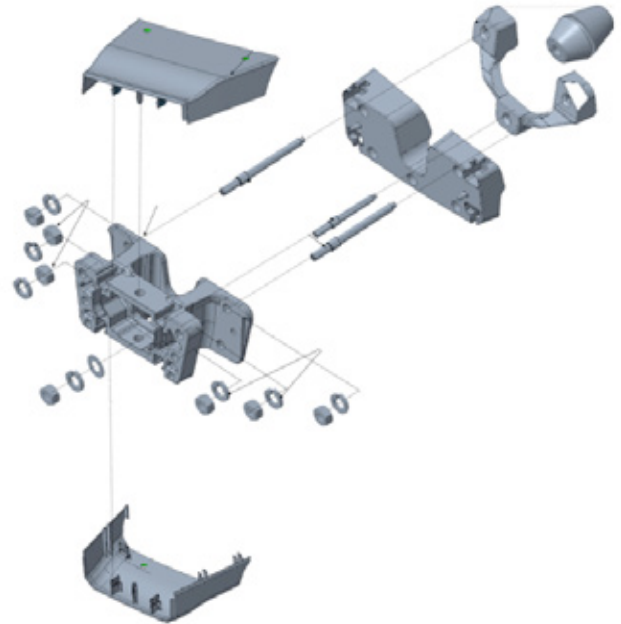


Identify and review relating components

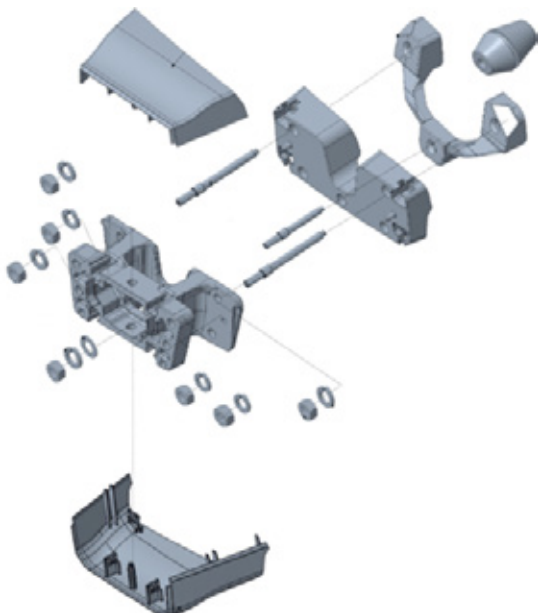
**VEHICLE INTERFACE VNL300**



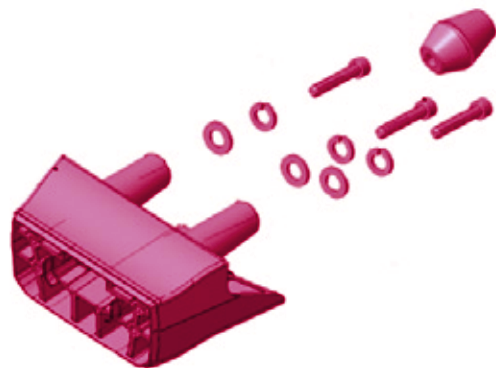
**VEHICLE INTERFACE VNL740**



**VEHICLE INTERFACE VNL760**



**VEHICLE INTERFACE VNL860**



See installation on page 45

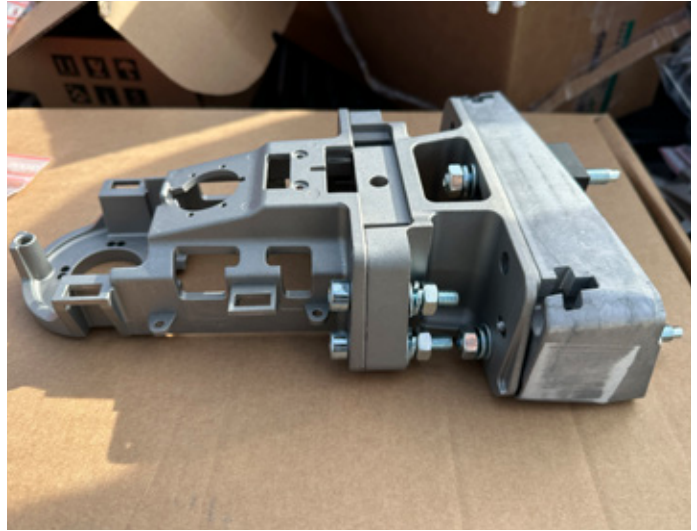


2



Use template provided to identify mounting M8 mounting hole locations (3), and center-located 1" cable pass-through hole

3



The driver side camera/arm assembly consists of four components: (1) Backplate Bracket (interior side) (2) Interface Bracket (exterior side) (3) Extension Bracket (4) Main Bracket/Arm

4



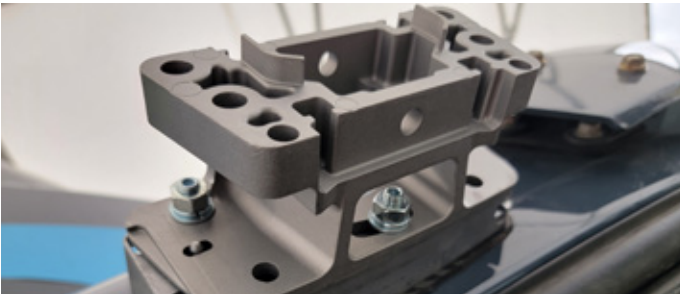
Identify Backplate Bracket, then affix from interior of driver side (depicted) with corresponding M8 two-way screw set

5



Place relating exterior gasket and center-hole grommet in place, then align the Interface Bracket by with the M8 two-way screw set

6



Align and attach the Extension Bracket with corresponding nuts/M8 two-way screw set

7



Ensure the relating driver side harness and coax cables is routed through cable pass-through hole and mounted brackets

8



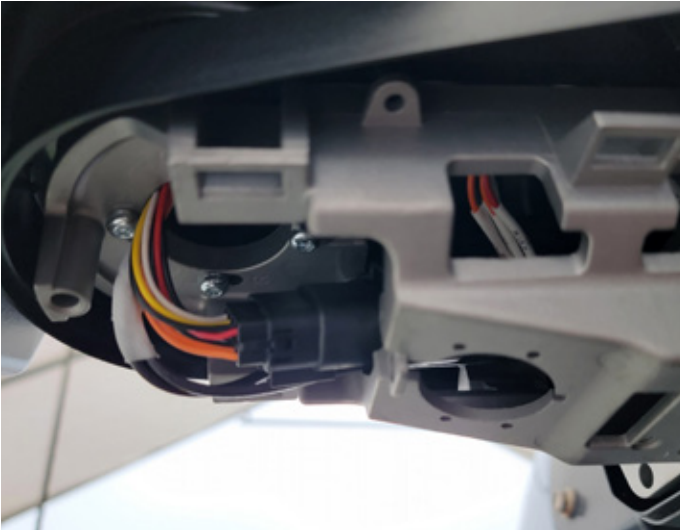
Attach the Main Bracket/Arm with corresponding screw set and route affiliated cables/connections. Affix upper and lower Extension Covers

9



Using the corresponding fastener set, install upper cover to the Main Bracket/Arm

10



Before affixing lower cover, ensure the assembly of the Main Bracket/Arm (depicted) and all connections are secure and unkinked

11



Install driver side camera wing to Main Bracket/Arm (completed driver side arm/camera assembly depicted)

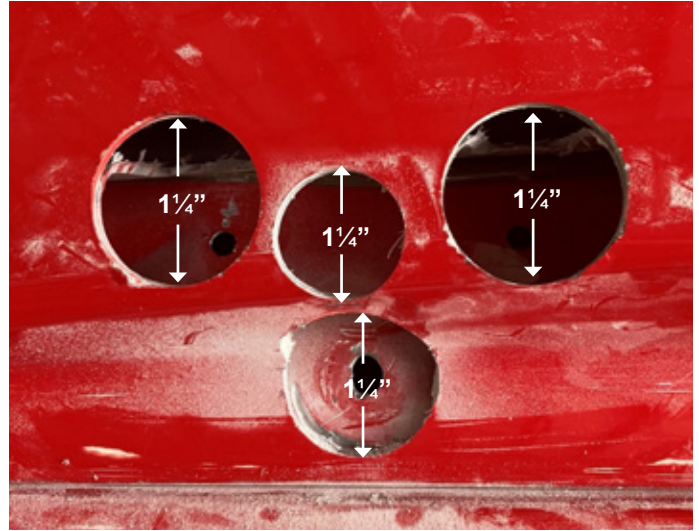


1



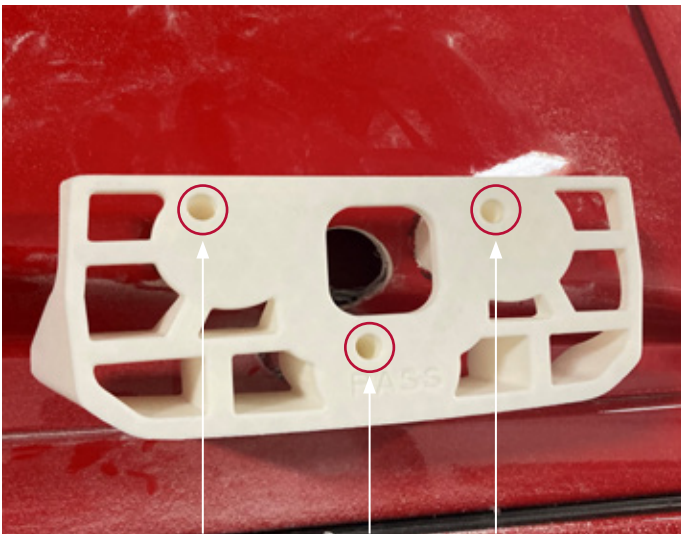
Clean Surface of truck where template is being placed.  
Place template use illustration for reference.  
Mark bracket holes with marker.

2



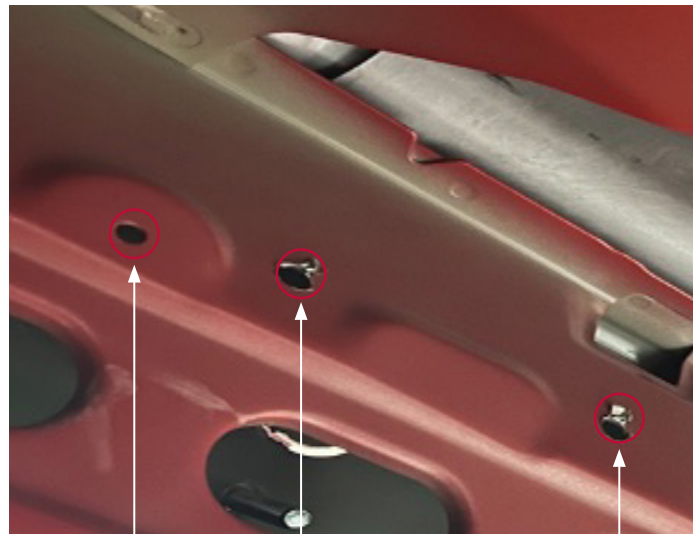
Drill the 4 1 1/4" holes that were marked in step 1

3



Use of Jig. Drilled through 3 bolt holes through  
sheet metal body then through cage

4



Inside truck after drilling through 3 layers

1



Using the location and size of the A-pillar interface bracket for reference, cut a rectangular hole in the relating side (driver/passenger) A-pillar cover removed during pre-installation. With the relating monitor (driver/passenger side) in hand, thread the cables through the A-pillar cover; make connections to the MirrorEye® harness connector and camera cable. Relating images depict process to finished bracket/A-pillar assembly

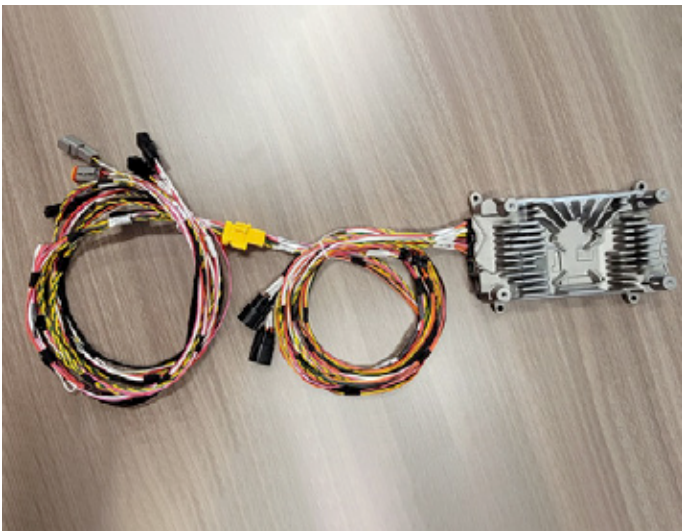


1



Confirm the system powers up properly and that all monitors are showing the correct feed from their respective cameras

2



Make sure the main harness and relating cables/connections are properly seated in the dash, A-pillar(s), console or headliner locations

3



Re-install all panels, upper console, covers and headliner to their original configuration(s). Be mindful of harness/cable placement to avoid kinking during re-installation



A close-up, dark, and slightly blurred photograph of the side mirror housing of a vehicle. Two circular camera lenses are visible, each with a white ring around the lens. The background is dark and textured.

---

# System Alignment/ Calibration

## SYSTEM ALIGNMENT/CALIBRATION

---

# Alignment of Cameras

This step may require temporary removal of the camera wing cover in order to adjust camera angle and field of view

## SYSTEM ALIGNMENT/CALIBRATION

### Alignment of Cameras

1



Verify field of view for all three cameras

2



The Class V camera should show as parallel to the truck's body and should be positioned to maximize the outward view

3



For the driver side camera view make sure that the horizon is parallel to the top of the monitor screen. Align the inside edge of the camera view to be parallel with the fairing

4



Repeat the previous step (3) on the passenger side ensuring a similar field of view in both the driver side and passenger side monitors



## SYSTEM ALIGNMENT/CALIBRATION

---

# Calibration of Distance Lines

This step must be completed without a driver present

**1**

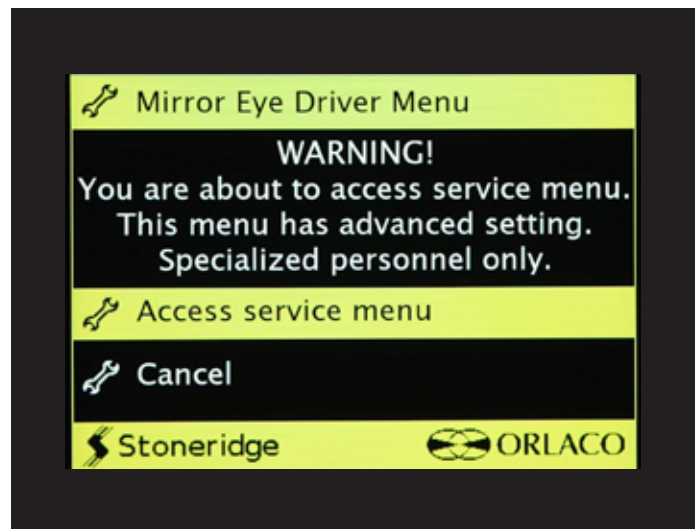

At the time of installation, the vehicle's distance lines **must** be calibrated in the MirrorEye® system ...

**2**


To do so, first bring up the Driver Menu by long-pushing (e.g., “push and hold”) the lower-left button on the MirrorEye® Controller ...

**3**


Using the controller's dial knob, scroll down to the Exit selection, and **long-push the Driver Side Manual Panning button and Controller Knob simultaneously** ... this will bring access to advanced settings ...

**4**


Warning message will appear... on the same page, “Access service menu” is default-selected, press the Controller Knob ...

**5**

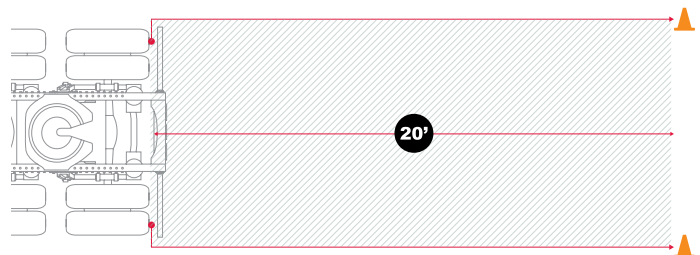

On the MirrorEye® Service Menu, dial-scroll to Distance Lines, then press the Controller Knob ...

**6**


MirrorEye® installation technicians need to set the End of Trailer – or EOT – distance to calibrate the vehicle's distance lines ...

**7**


Before doing so, first place cones at the end of the trailer on both the driver and passenger sides of the truck ...

**8**


If a trailer isn't attached, measure 20-ft. from the first rear axle rearward and place a cone at that location on both sides of the vehicle (passenger and driver sides)

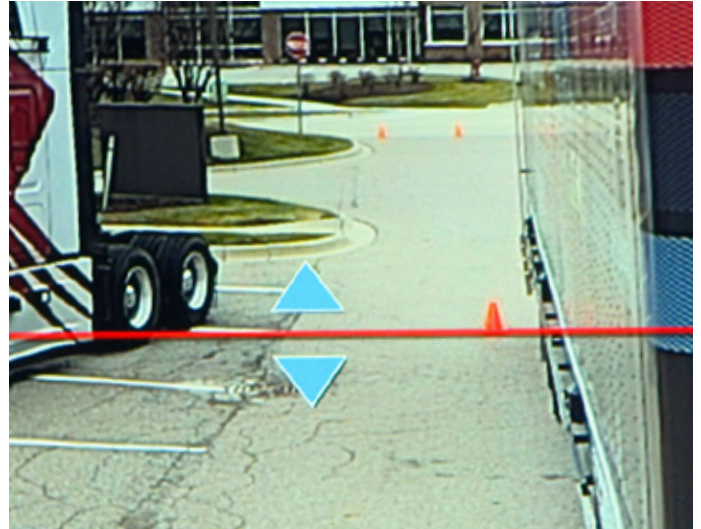


9



Back in the cab, dial-scroll to the “Set End of Trailer” selection and push the Controller Knob ...

10



Match the red line on the monitor with the cone at the end of the trailer on the Driver Side using the Dial Knob ... when it's aligned, push the Controller Knob ...

11

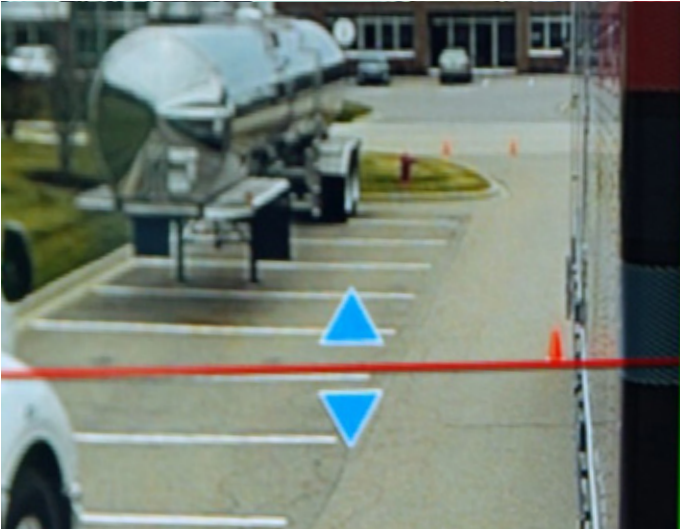


Once set, the correct driver-side distance lines are adjusted and displayed on the monitor ...

12



To match Passenger Side distance lines with those of the driver side, push and hold the lower-right button on the MirrorEye® Controller ...

**13**


Match the red line on the monitor with the cone at the end of the trailer on the Passenger Side using the Dial Knob ... when it's aligned, push the Controller Knob ...

**14**


At this point, all distance lines for both sides of the truck are displayed and color-identified in red, yellow and green ...

**15**


To exit Distance Lines in the Service Menu, dial-scroll to Return and push on the Controller Knob ...

**16**


To exit the Service Menu, scroll down to Exit and press the Controller Knob again ...

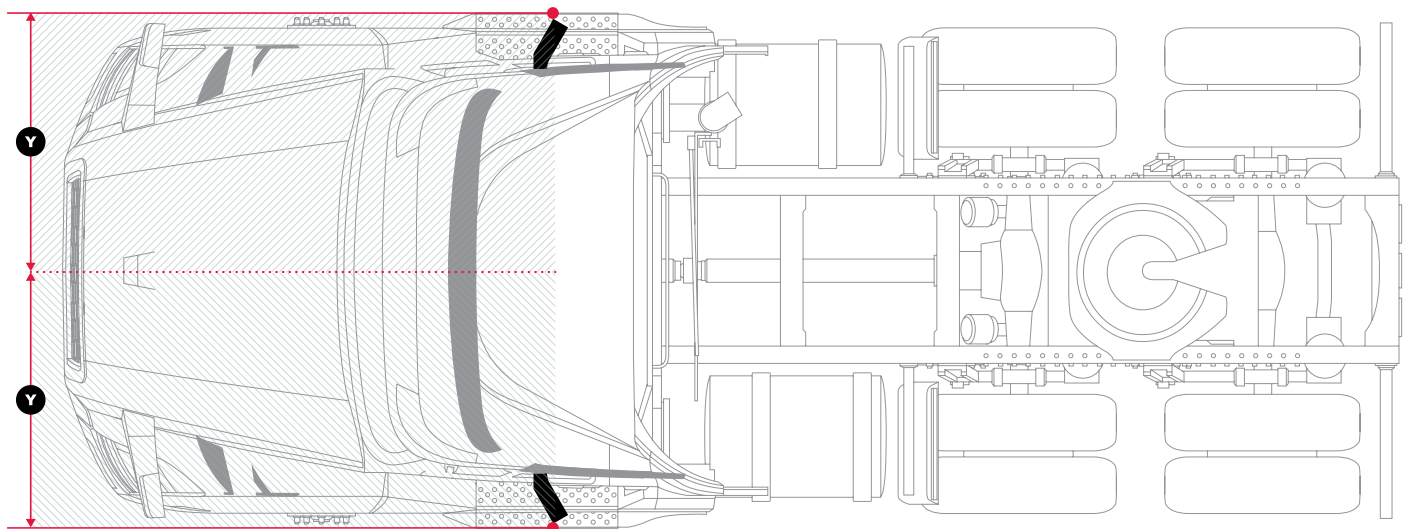
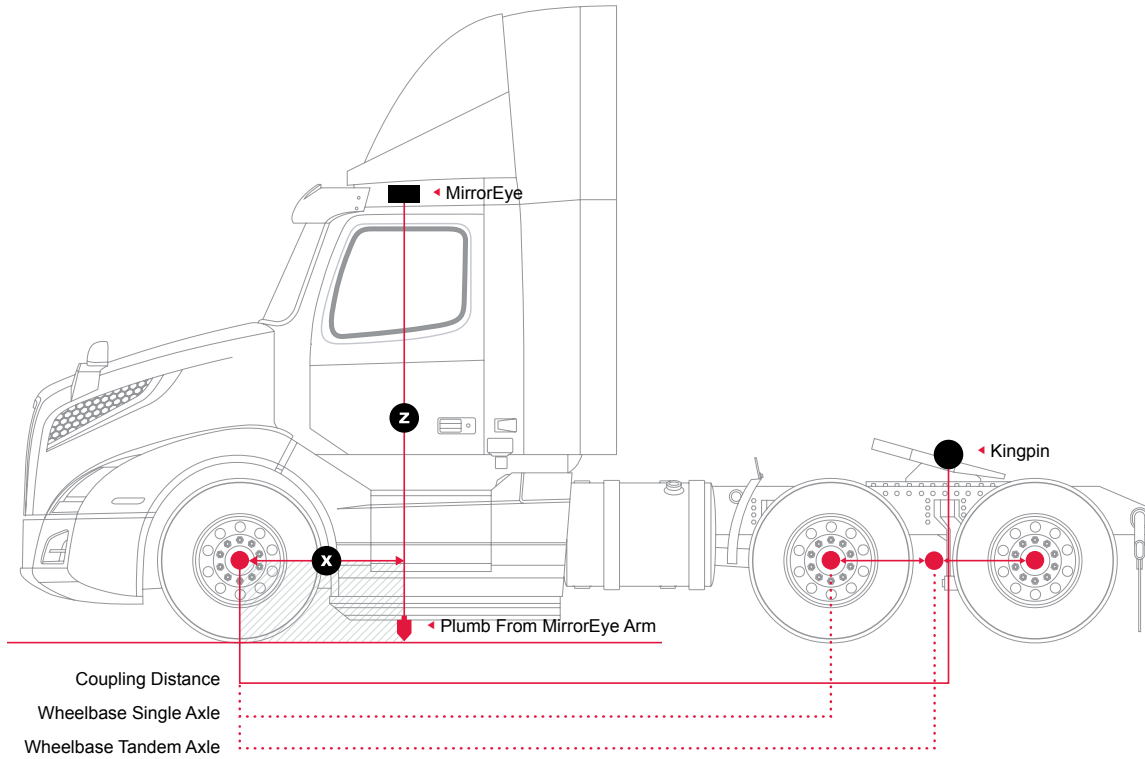
## SYSTEM ALIGNMENT/CALIBRATION

---

# Entering Critical Values

At the time of installation, key and critical vehicle measurements **must** be entered into the MirrorEye® system

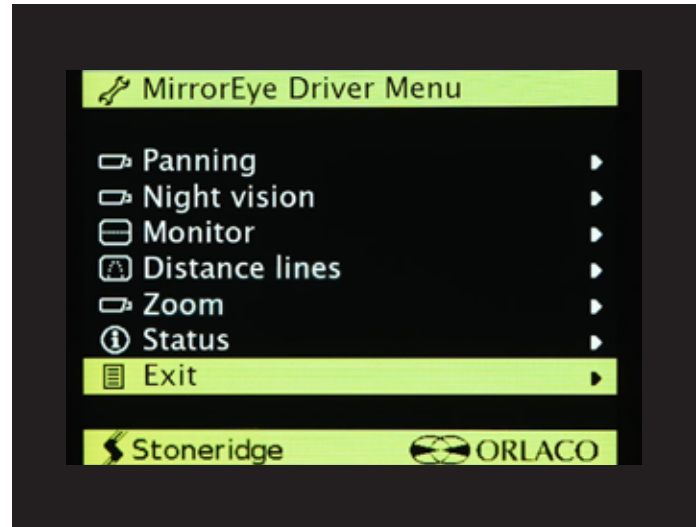


**1**


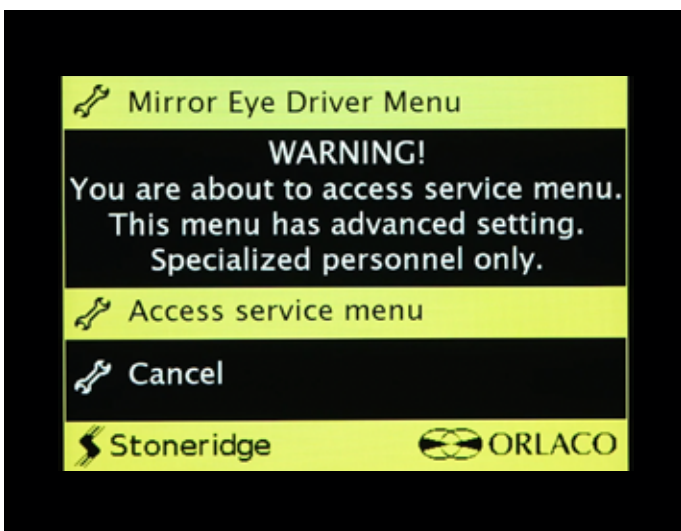
At the time of installation, key and critical values/measurements relating to the vehicle's **wheelbase, steering ratio, coupling position and camera positions (X,Y and Z)** must be entered into the MirrorEye® system.

**2**


To do so, first bring up the Driver Menu by pushing and holding the lower-left button on the MirrorEye® Controller ...

**3**


Using the controller's Dial Knob, scroll down to the Exit selection, then **push and hold the Driver Side Manual Panning button and Controller Knob simultaneously** ... this will bring access to advanced settings ...

**4**


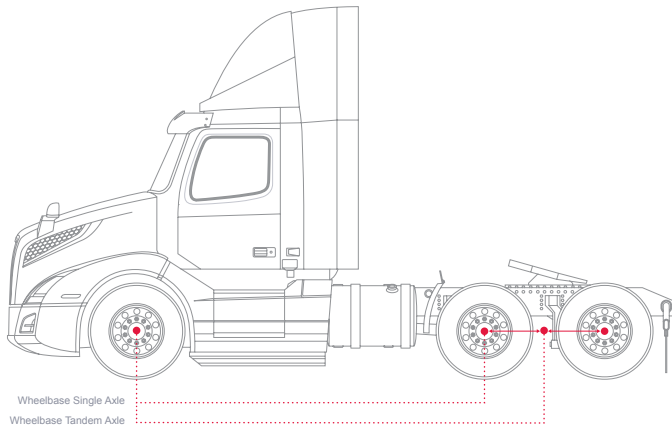
A Warning message will appear ... on the same page, "Access service menu" is default-selected, press the Controller Knob ...

**5**


On the MirrorEye® Service Menu, dial-scroll to Panning, then press the Controller Knob ...

Sample Door  
Jamb Label



**9**


The wheelbase is measured from the center of the front axle to the center of the rear axle group

**10**


Use the Dial Knob to adjust the millimeter value in the green box until the proper value is found, then press the Controller Knob ...

... to lock the value in, press the Controller Knob again ...

**11**

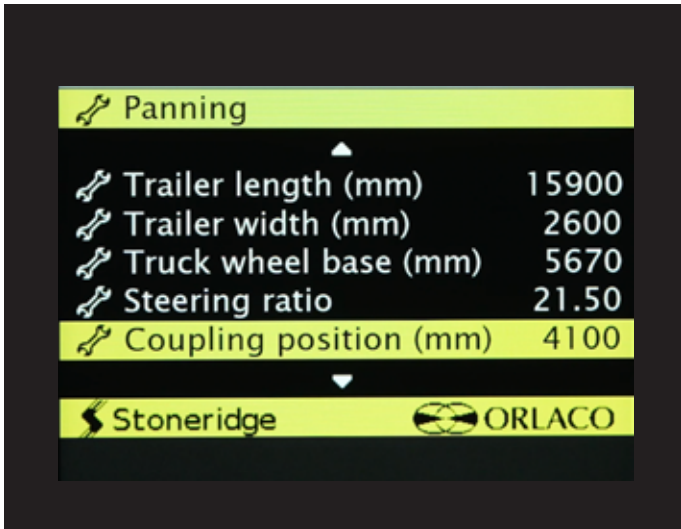

To adjust the **Steering Ratio**, scroll to the selection in the Panning menu and press the Controller Knob ...

**12**

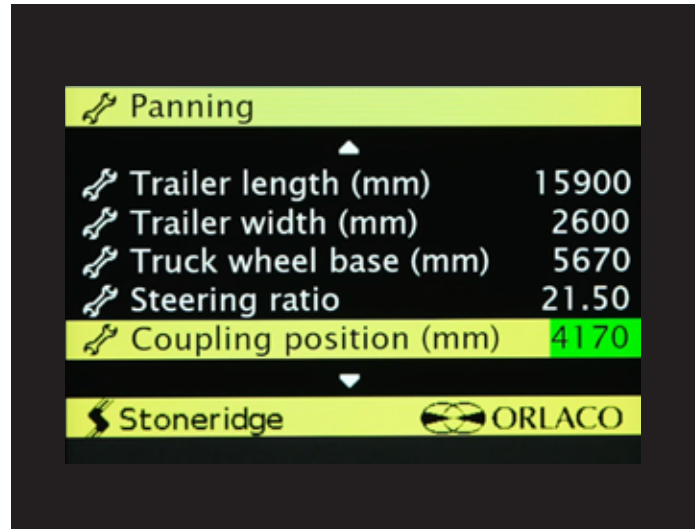

Be aware that the steering wheel ratio for all trucks – regardless of make or model – **should be set to 18.50**

Use the Dial Knob to adjust the steering ratio to 18.50, then press the Controller Knob...

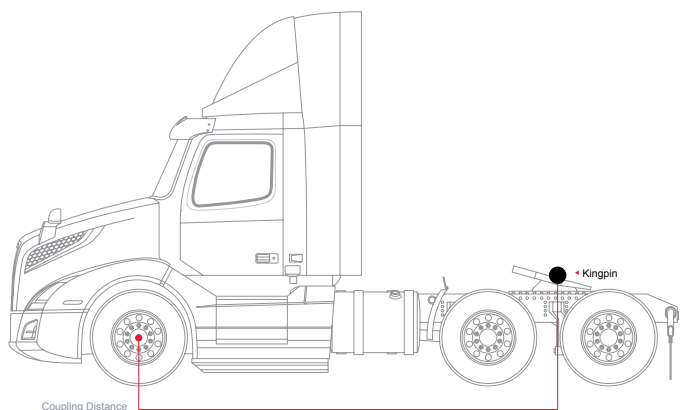
... to lock the value in, press the Controller Knob again ...

**13**


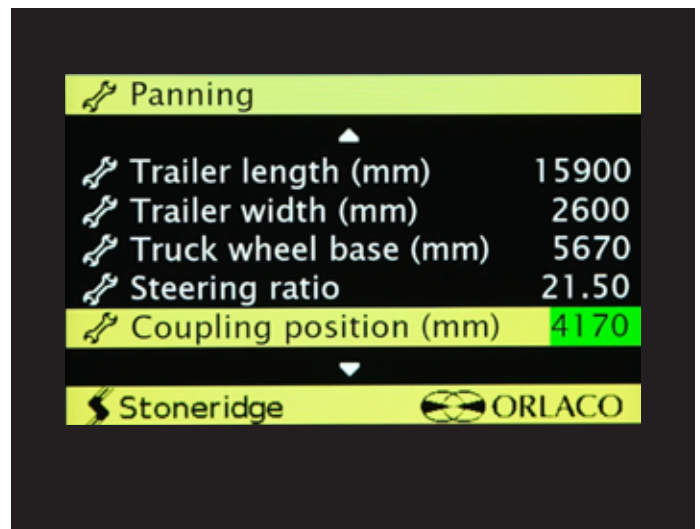
To adjust the **Coupling Position**, scroll to the selection in the Panning menu and press the Controller Knob ...

**14**


Be aware that the Coupling Position value needs to be entered in millimeters. All standard measurements (e.g. "in inches") will need to be converted before entering values into the system. Conversion tables are readily available online.

**15**


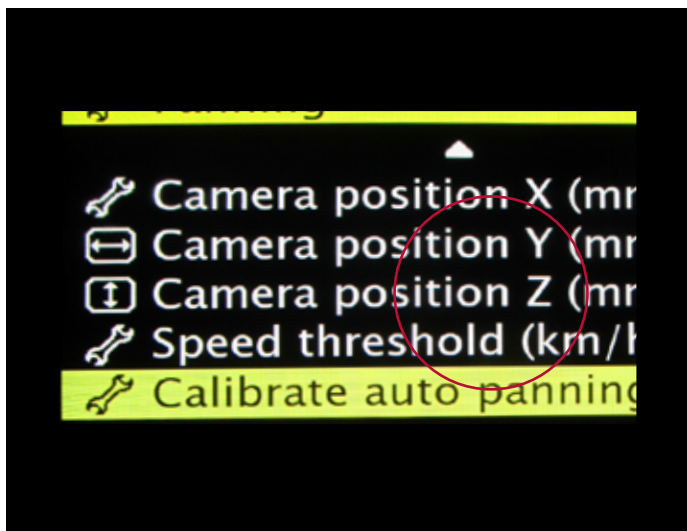
The Coupling Position is measured from the center of the front axle of the truck to the King Pin position on the fifth wheel ...

**16**


Use the Dial Knob to adjust the millimeter value in the green box until the proper value is found, then press the Controller Knob ...

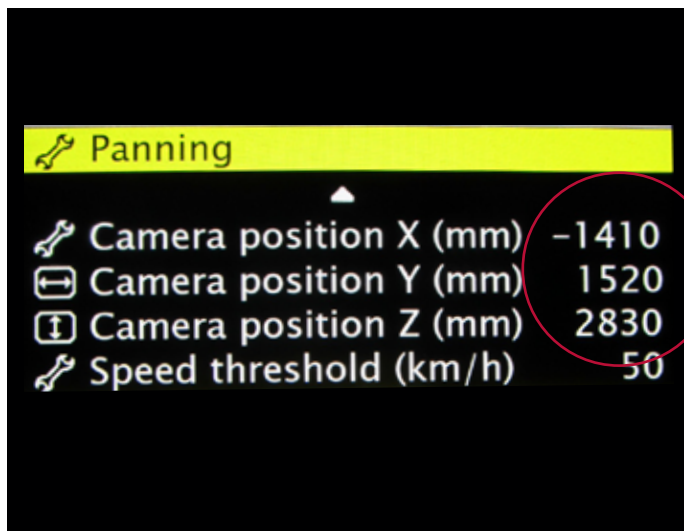
... to lock the value in, press the Controller Knob again ...

17



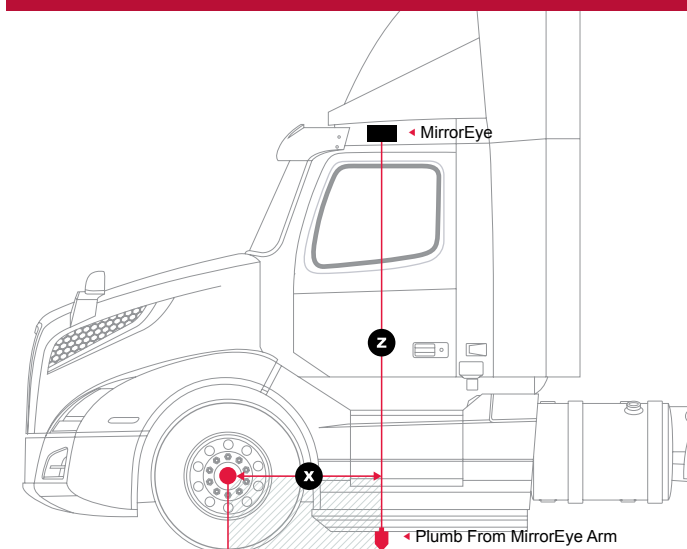
To adjust the **camera position values – X, Y, or Z** – scroll to the relating position in the Panning menu and press the Controller Knob ...

18



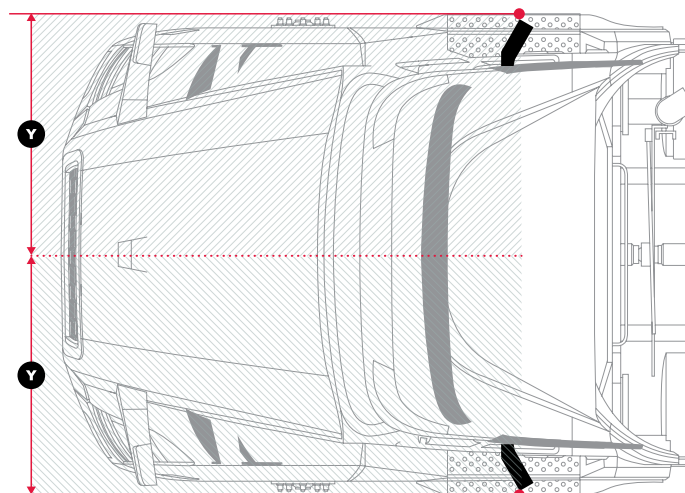
Be aware that all camera position values need to be entered in millimeters. All standard measurements (e.g. "in inches") will need to be converted before entering values into the system. Conversion tables are readily available online.

19

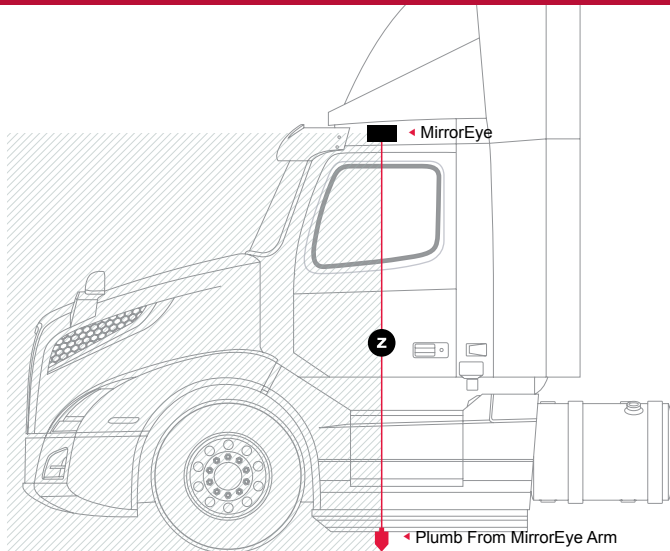


The camera position X value is the distance from the **Center Line of Front Axle to the Camera Lens** (plumb bob from camera lens to ground)

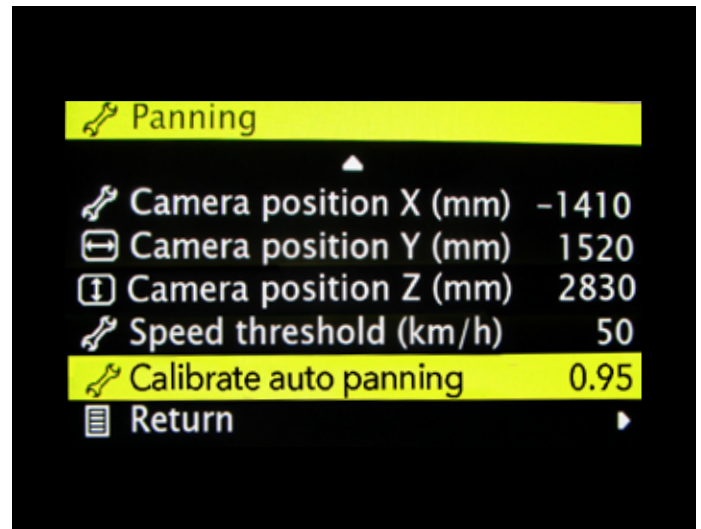
20



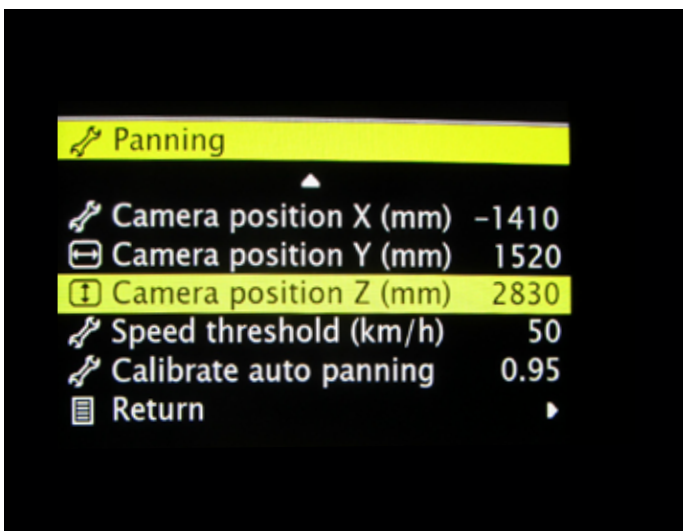
The camera position Y value is the distance from the **Center Line of the Truck to the Camera Lens** (plumb bob from camera lens to ground)

**21**


The camera position Z value is the distance from the **Ground to Camera Lens** (plumb bob from camera lens to ground)

**22**


The default setting for “Calibrate auto panning” for all versions of MirrorEye should be 0.95. If your auto panning setting is not 0.95, make sure to do so

**23**


Use the Dial Knob to adjust any of the camera position X, Y or Z values, then press the Controller Knob ...  
.... to lock the value in, press the Controller Knob again ...

**24**


To exit Panning in the Service Menu, dial-scroll to Return and push on the Controller Knob ...



**25**

To exit the Service Menu, scroll down to Return and press the Controller Knob again ...

---

# MirrorEye® Activation Process

# Activation

(Required)

The following provides the steps necessary to activate the MirrorEye® system with Cloud Services for GPS and Video Feeds. If not already in hand, begin by downloading/reviewing the BASIC PROCESS PDF, which can be accessed at:

<https://www.stoneridge.app/en/help/how-to-cloud-activate-mirroreye-i-mk-ii>

**ALERT:** Before starting the activation process, make sure to have the following information available before submitting an activation form. It is imperative to for installers to take clear, decipherable photos of the serial numbers of the following components:

- The FleetArc FA470 Device ID #
- The VIN (or temporary VIN) of the Vehicle
- The Asset ID # or temporary internal ID # of the Vehicle
- The ECU # of any Monitor or Wing Camera (only one number needed)

## STEP 1.

Make sure the truck is turned on, with enough gas for any additional time it may take to activate your MirrorEye® system.

**NOTE:** Activation should take approximately 15 to 20 minutes, however in some cases, due to part failure or installation error, expect up to 4 hours for troubleshooting and communication with a developer or engineer.

## STEP 2.

Visit <https://www.stoneridge.app/activate>; enter truck information and device information and click "Submit." Any additional information you submit is optional and may improve the processing speed of your ticket.

## STEP 3.

### Request Received

You should receive an email notification of your activation request, and the status of your ticket. If you have any questions or challenges, please reply to that email, or send a message to [incident@stoneridge.app](mailto:incident@stoneridge.app) or visit <https://www.stoneridge.app/tickets> to view the status of your tickets.

**NOTE:** If you do not have access to the portal to view tickets, you can request access here: <https://www.stoneridge.app/access>

## HOW TO CONTACT YOUR SERVICE TEAM

### Email

[incident@stoneridge.app](mailto:incident@stoneridge.app)

### Help Center Phone

888.624.4474

### Help Center Hours

Monday - Friday  
8:00 a.m. - 8:00 p.m. EST

### Visit Help Center

<https://www.stoneridge.app/help>

### Reply to Emails

You can reply to any email you receive from the Service Team.

## STEP 4.

### Request Processing

Your ticket will be submitted directly to a Stoneridge service agent who will review any details and contact you via email or phone to follow up with any questions or errors.

## STEP 5.

### Certification Approved

Stoneridge software developers and engineers are on call to ensure a successful installation and activation. When installation is successful you will receive an email with details of the successful activation.



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Better Safety Through Better Vision™