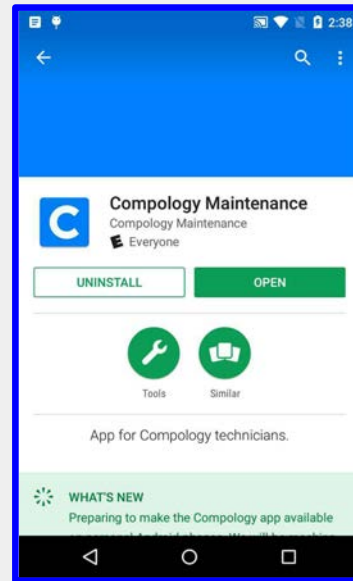


compology



Compology Tech App & Maintenance

The Basics

NOTICE:

This device complies with Part 15 of the FCC Rules and with Industry Canada licence-exempt RSS standard(s).

Operation is subject to the following two conditions:

- 1. this device may not cause harmful interference, and*
- 2. this device must accept any interference received, including interference that may cause undesired operation.*

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et*
- (2) l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

NOTICE:

Changes or modifications made to this equipment not expressly approved by Compology may void the FCC authorization to operate this equipment.

Compology Conduct

As a Compology Technician, it is important to be a positive representative of Compology and the companies we work with. The following are rules you must follow when performing any work on behalf of Compology

Attire, grooming

- Look professional (no torn, stained clothing)
- Wear your Compology logo'd apparel if appropriate

Identification

- Carry personal identification
- Carry Compology identification/Business cards (if provided)
- Wear your Compology high vis vest and hard hat

Behavior

- Do
 - Be polite & friendly
 - Smile!
 - Practice safety!
- Dont
 - Foul language
 - Pressure customer/insist to do install
 - Avoid interaction with customers
 - Use customer facilities

On-site Behavior

Customer objections

- Never argue with customers
- If an individual has an objection to your being there or having a camera installed, give them contact information for the project point of contact and leave the site
 - Maintain a polite & positive attitude
 - Contact Compology and let them know you were unable to complete the install, the circumstances and whom you dealt with on location

Unable to install & reporting

- Immediately notify Compology & Customer if a business/individual shows objections to having a camera installed on their container.

Site tidiness and clean up

- Leave No Trace policy: Pick up any debris created during installs (empty boxes, drill bits, etc).
- No loitering on site, leave promptly

Zero tolerance items

- Theft
- Smoking
- Alcohol or drug use

On-site Behavior (continued)

Complaints

As a Technician, you will visit businesses and residences to service Compology equipment and there can be times when you receive a complaints from them

- A complaint is any scenario of the following scenarios:
 - Does not want sensor installed/did not approve installation
 - Was not notified by Hauler
 - Starts asking questions about issues with their service with the Hauler

Responses

- If a complaint is related to sensor installation, offer to come back another time after they have spoken with the Hauler. Provide letter of authorization and contact information
- If a complaint is related to hauler service, provide contact information for Hauler representative and verify that they are comfortable with installation.

Reporting

- Report all complaints to the Compology project manager same day.
 - Information needed when giving report:
 - Business/Location Name
 - Address
 - Date & Time
 - Name of individual making complaint
 - Any other useful information
 - Compology main number: 415-848-9169

Compensation

Installations

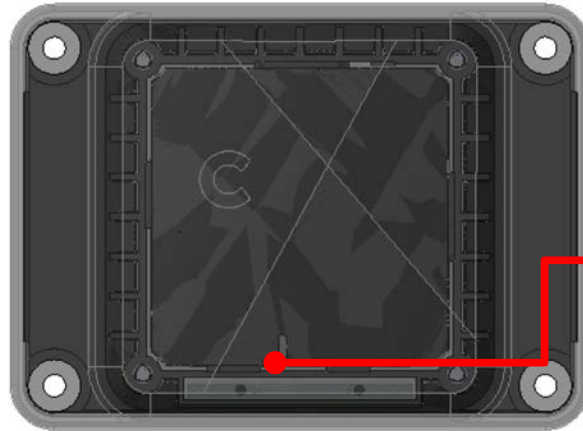
\$20 flat rate per install

Maintenance

\$40 flat rate per task

\$30 flat rate per
attempted task

compology



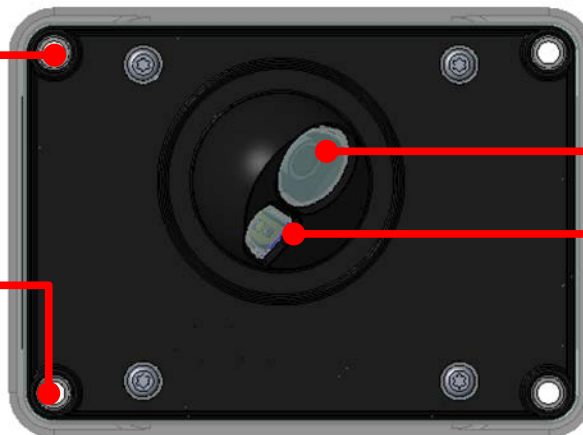
STATUS INDICATOR LIGHT

- Turning On
- Turning Off
- Sensor Good

ID LABEL



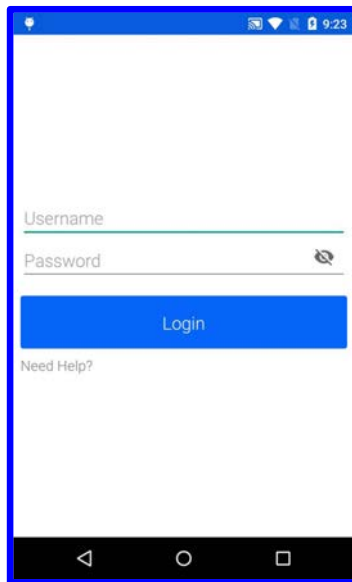
MOUNTING POINTS



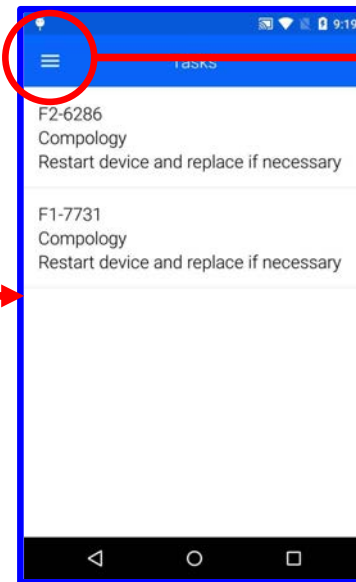
CAMERA

FLASH

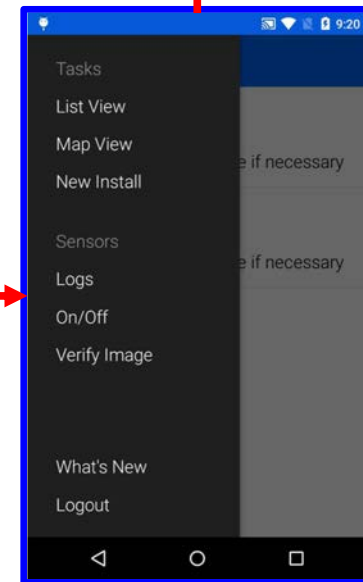
Main Menu



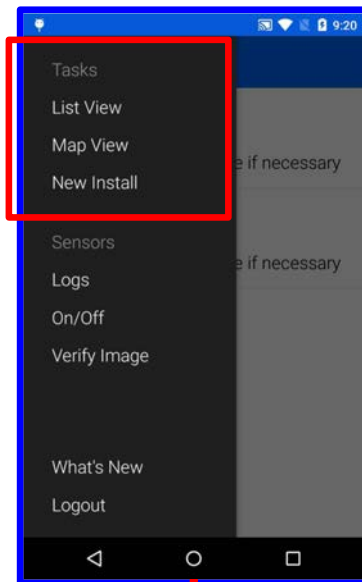
1. Login



2. Click Icon



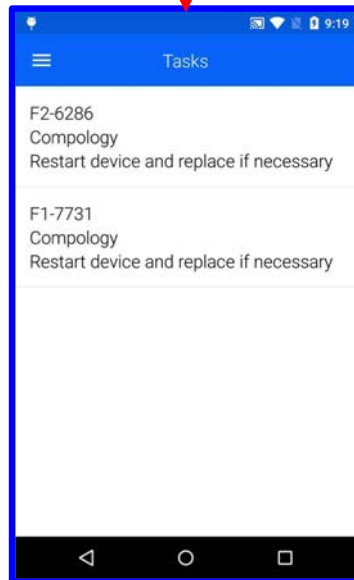
3. Main Menu



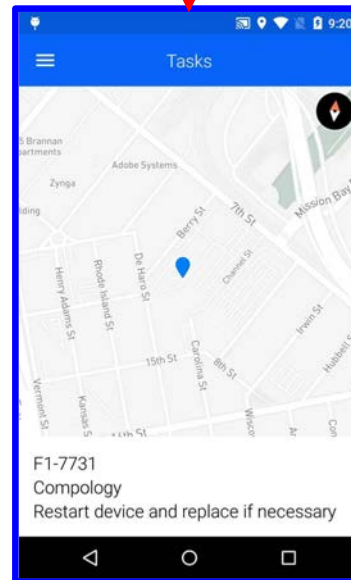
Tasks

Start here to complete maintenance tasks or installs

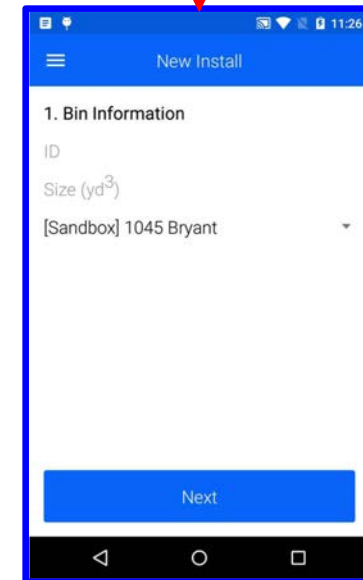
- **List View** – View of maintenance tasks in a list
- **Map View** – View of maintenance tasks on a map
- **New Install** – Create a new bin and assign a sensor



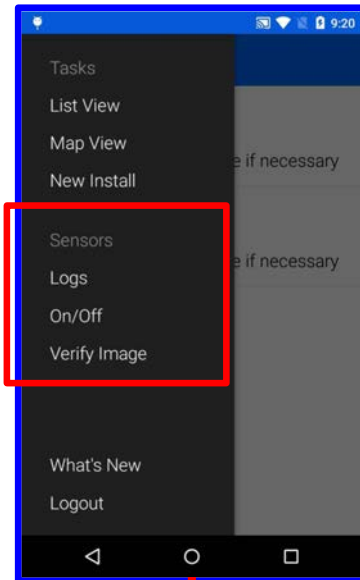
List View



Map View



New Install



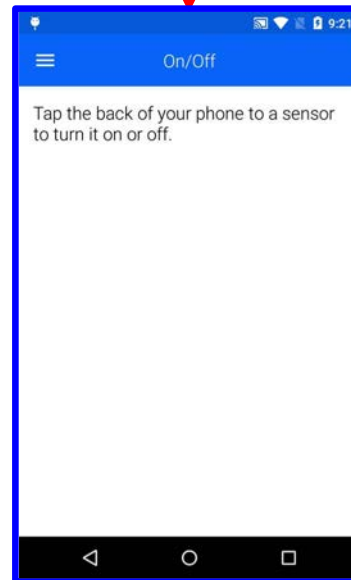
Sensor Tools

Tap phone to sensor to interact and get info

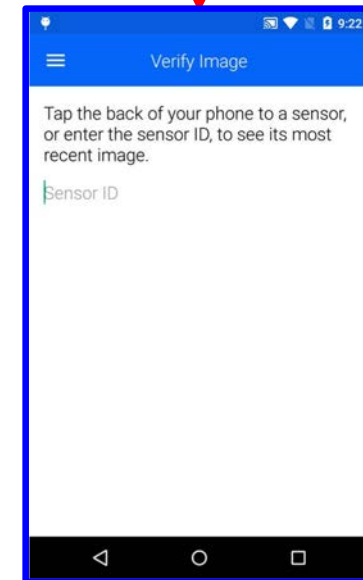
- **Logs** – View diagnostic info on a sensor
- **On/Off** – Turn sensor on or off
- **Verify Image** – See the latest image from a sensor



Logs

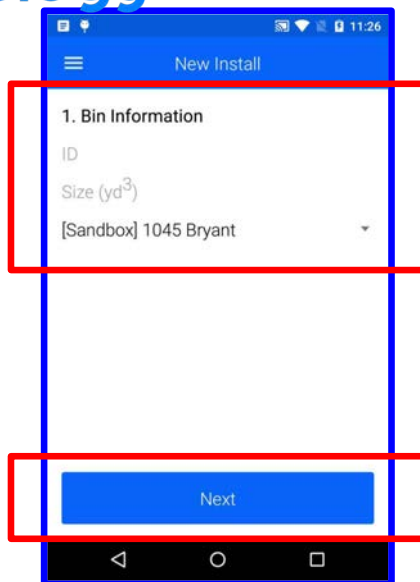


On/Off



Verify Image

New Install

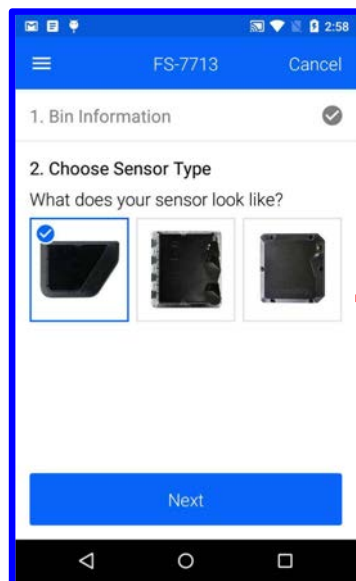


1. ENTER BIN INFORMATION

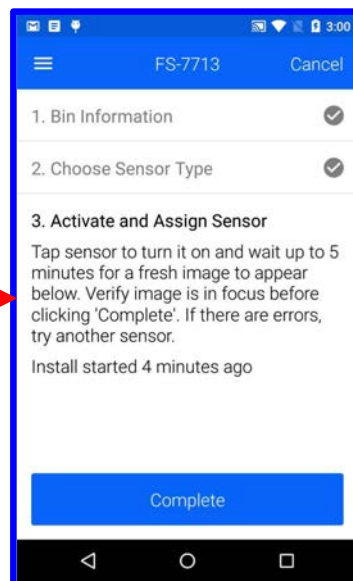
- **ID** – Enter number/name on outside of bin
- **Size** – Enter the size of bin in cubic yards
- **Organization** – Select the organization for this bin
- **Content** – Select the type of material in container

CLICK & HOLD

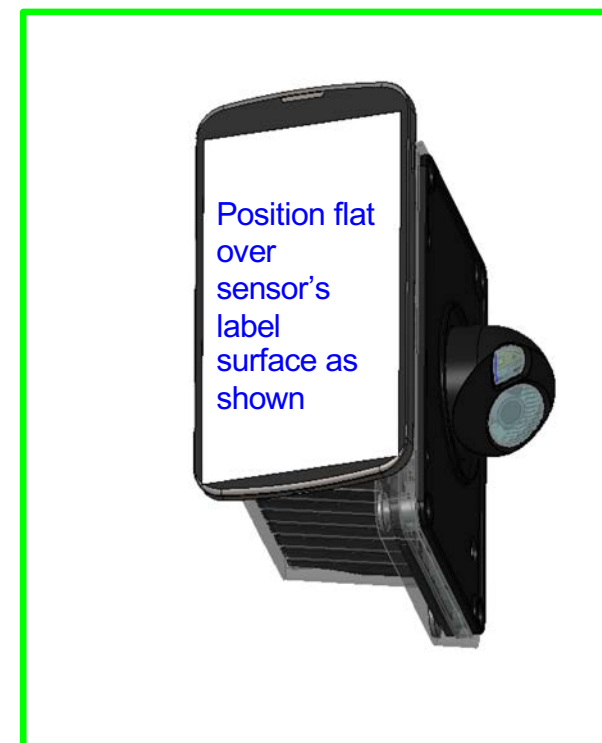
IMPORTANT: You will need to select an organization if you are assigned to multiple. Make sure you select the correct one!



2. CHOOSE SENSOR TYPE



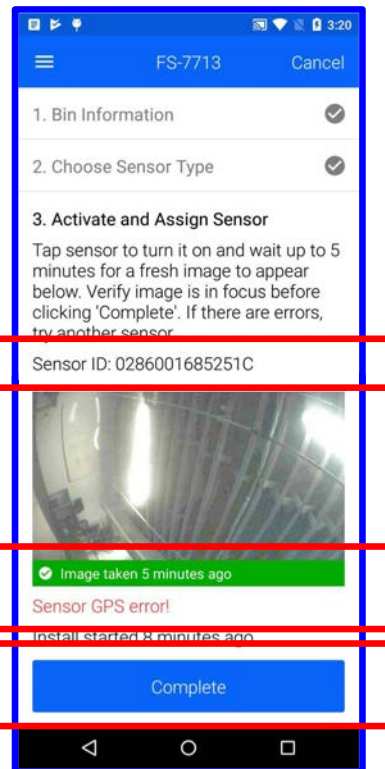
3. TAP PHONE TO SENSOR TO ACTIVATE



ID of the sensor waiting to be assigned to the bin. Tapping any sensor will turn on or off that sensor and change the ID

4. VERIFY GREEN IMAGE & NO ERRORS

5. COMPLETE



If new image does not appear within 15 minutes:

1. Restart the current sensor by tapping sensor to turn off and then on
2. Wait for new image
3. If no new image appears, try new sensor

IMPORTANT: Do not install sensor if new image does not appear

If you see 'Sensor GPS Error':

1. Move to a location where you can see the sky,
2. Restart current sensor and wait for new image
3. If GPS error remains, try new sensor

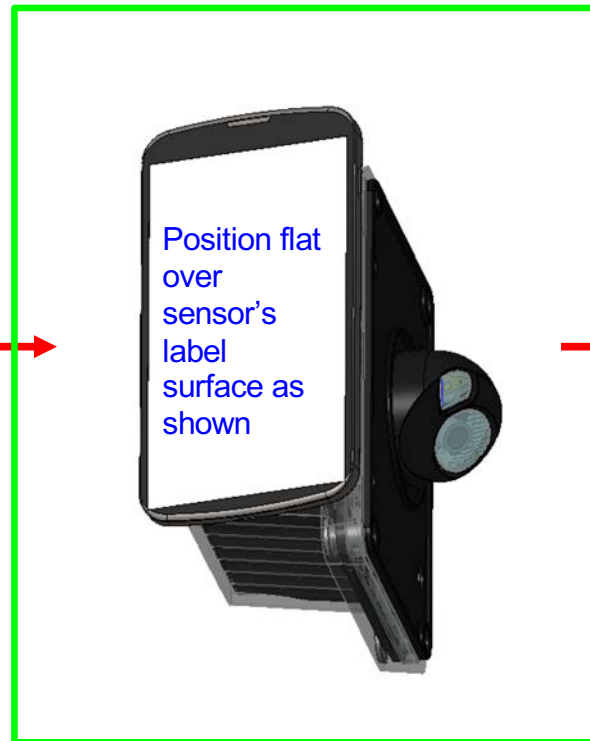
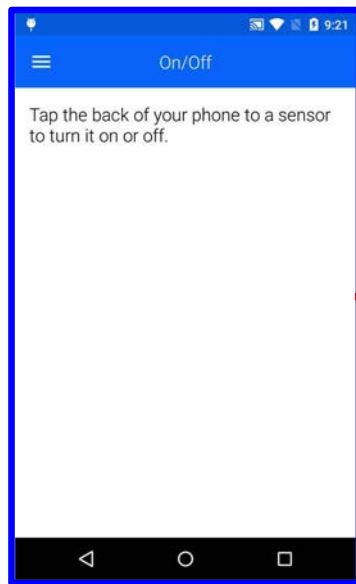
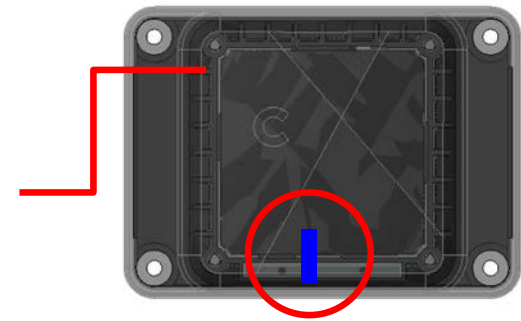
IMPORTANT: Do not install sensor with GPS error.

Turning Sensor On/Off

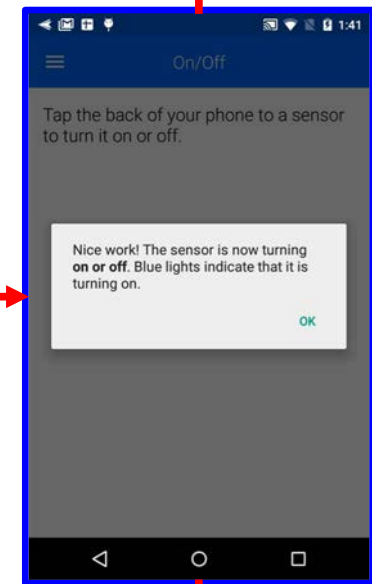
On/Off will be used to turn a sensor on or off when not in a task. You can use it to restart a sensor you want to check.

TURNING ON

Wait 5-10s, blue light will blink slowly 5X, and then flash a blue light every 2s during startup sequence



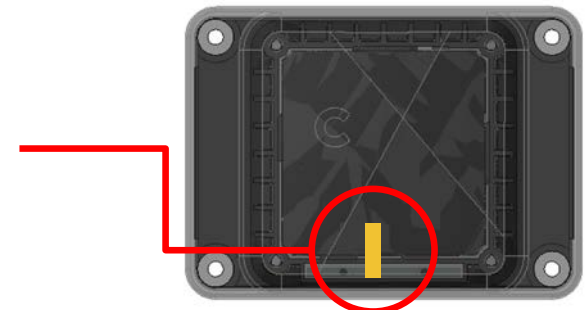
“DING!”



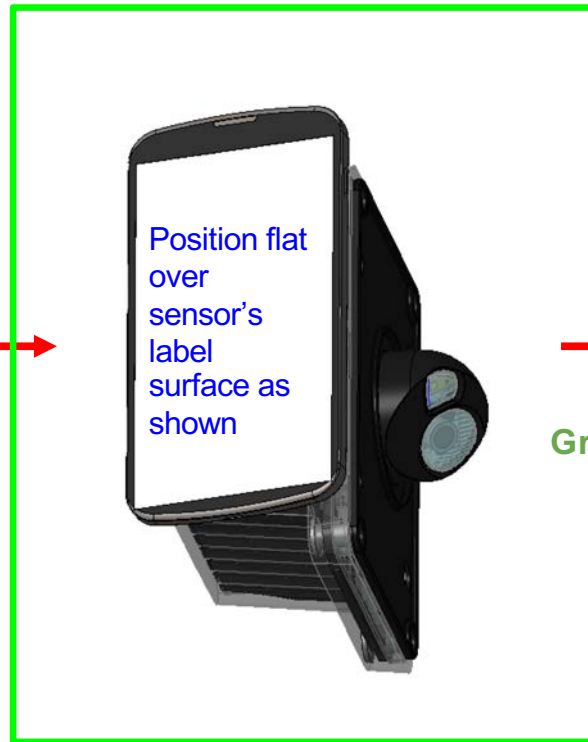
IMPORTANT: Make sure any sensors in your bag or inventory are OFF and all sensors you are installing into bins are ON. Pay careful attention to the indicator lights.

TURNING OFF

Immediately, yellow light will blink 10X very quickly and then turn off



Checking Sensor Logs



‘DING!’

Green = Good
Red = Error



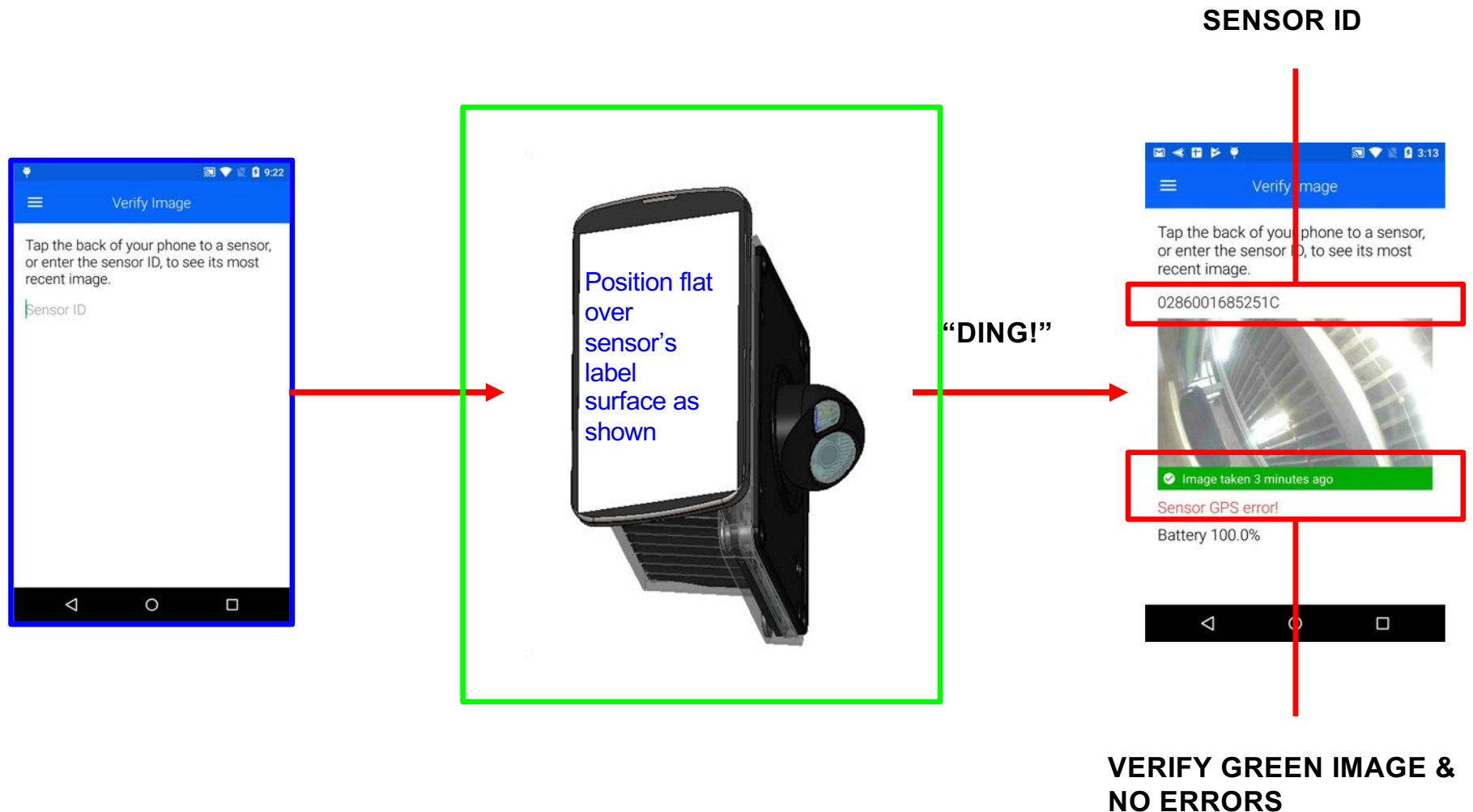
Logs should be used to identify root issues when a sensor is not uploading an image. It can only be taken after a sensor has gone through it's startup sequence and the indicator light is no longer flashing.

Most common errors:

- **MODEM_CONNECT** (cannot get cell signal). In this situation, restart sensor and try again before replacing
- **GPS_LOCK** (cannot get GPS signal). Move to a location where you can see the sky and try again before replacing sensor
- **SYSTEM** will be an error if anything has failed

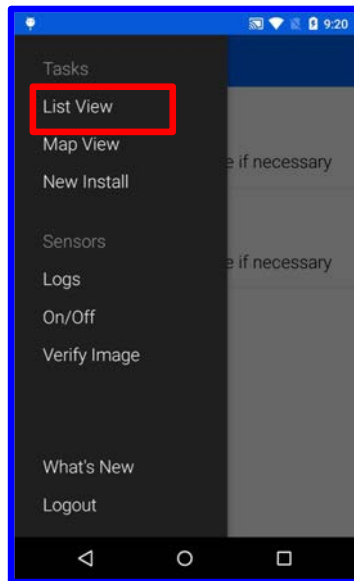
Verify Image

Verify Image should be used after a sensor is restarted to check to see if an image was uploaded successfully



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Maintenance

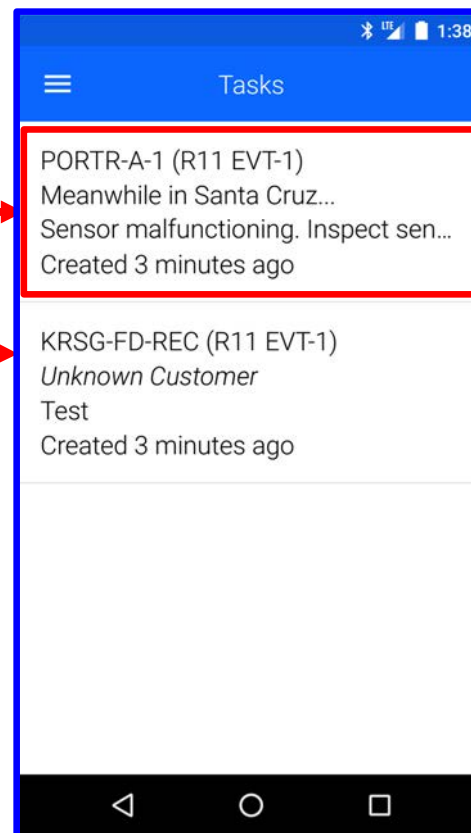


Viewing Tasks

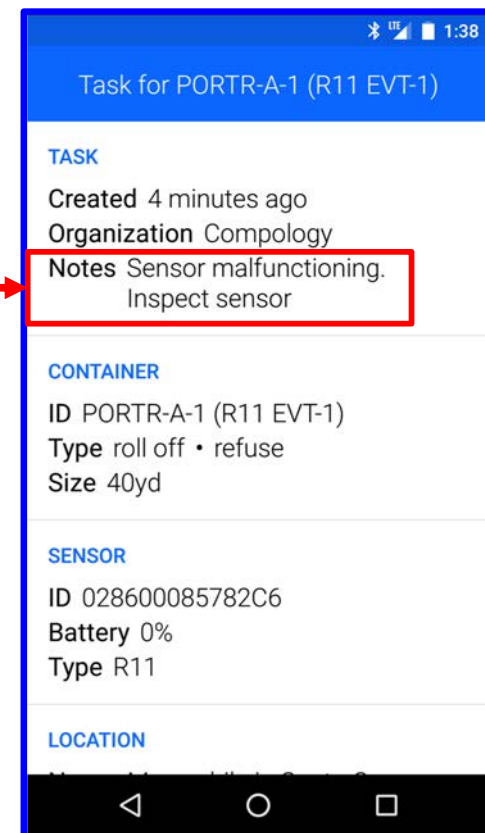
Start here to complete maintenance tasks

- **List View** – When a task is assigned to you, it will appear on this list. Tasks will stay here until it is completed, skipped or removed by a Compology Manager
- **Task Notes** – Each task will have instructions for you to follow

Each individual task to complete is listed here



List View



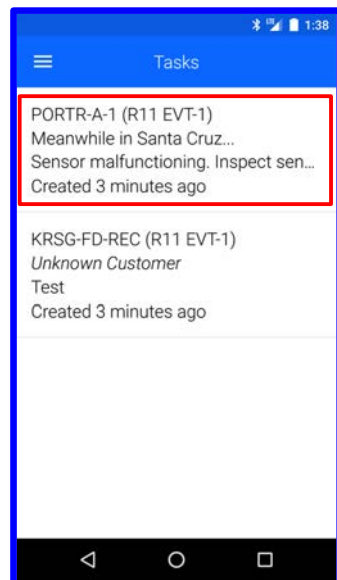
Task Details

Finding the Sensor

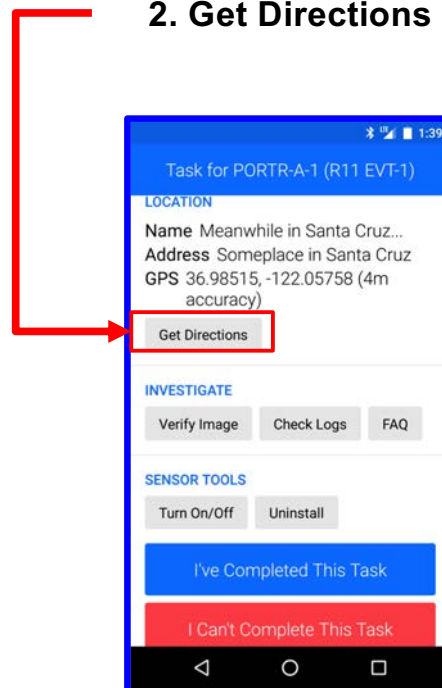
Find the last known location of the sensor

1. Select task you want to complete from the List View
2. Scroll down and select “Get Directions”. Google Maps will automatically appear
3. Select “Directions”

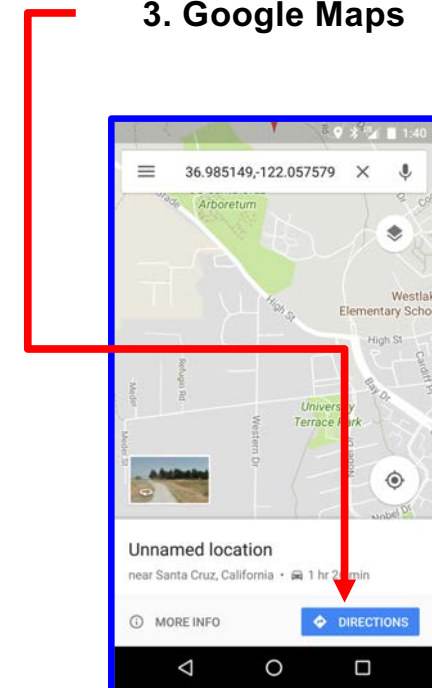
1. Select Task



2. Get Directions



3. Google Maps



Can't find the Container

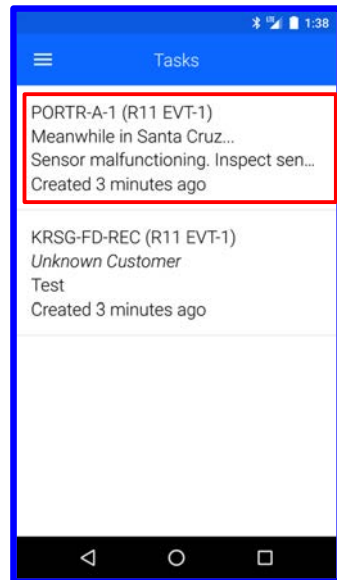
If you arrive to the location provided by Google Maps and the container is not there, or you cannot access the location:

1. Select the task for that specific sensor
2. Scroll down to the bottom of the task
3. Select "I Can't Complete This Task"
4. Mark all boxes that apply
5. Select "Submit and Skip Task"

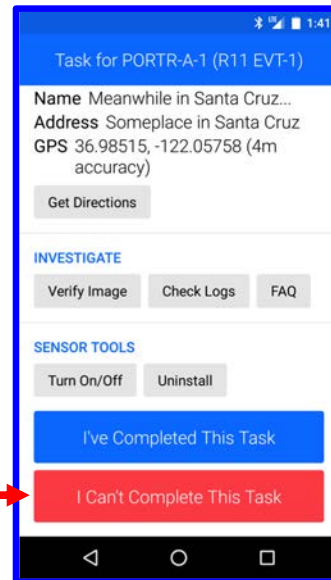
You've located the container?

CONTINUE TO NEXT PAGE

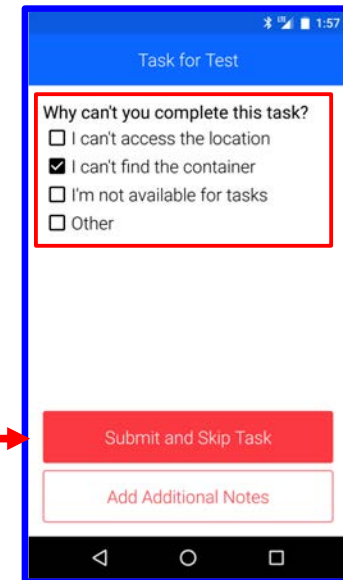
1. Select Task



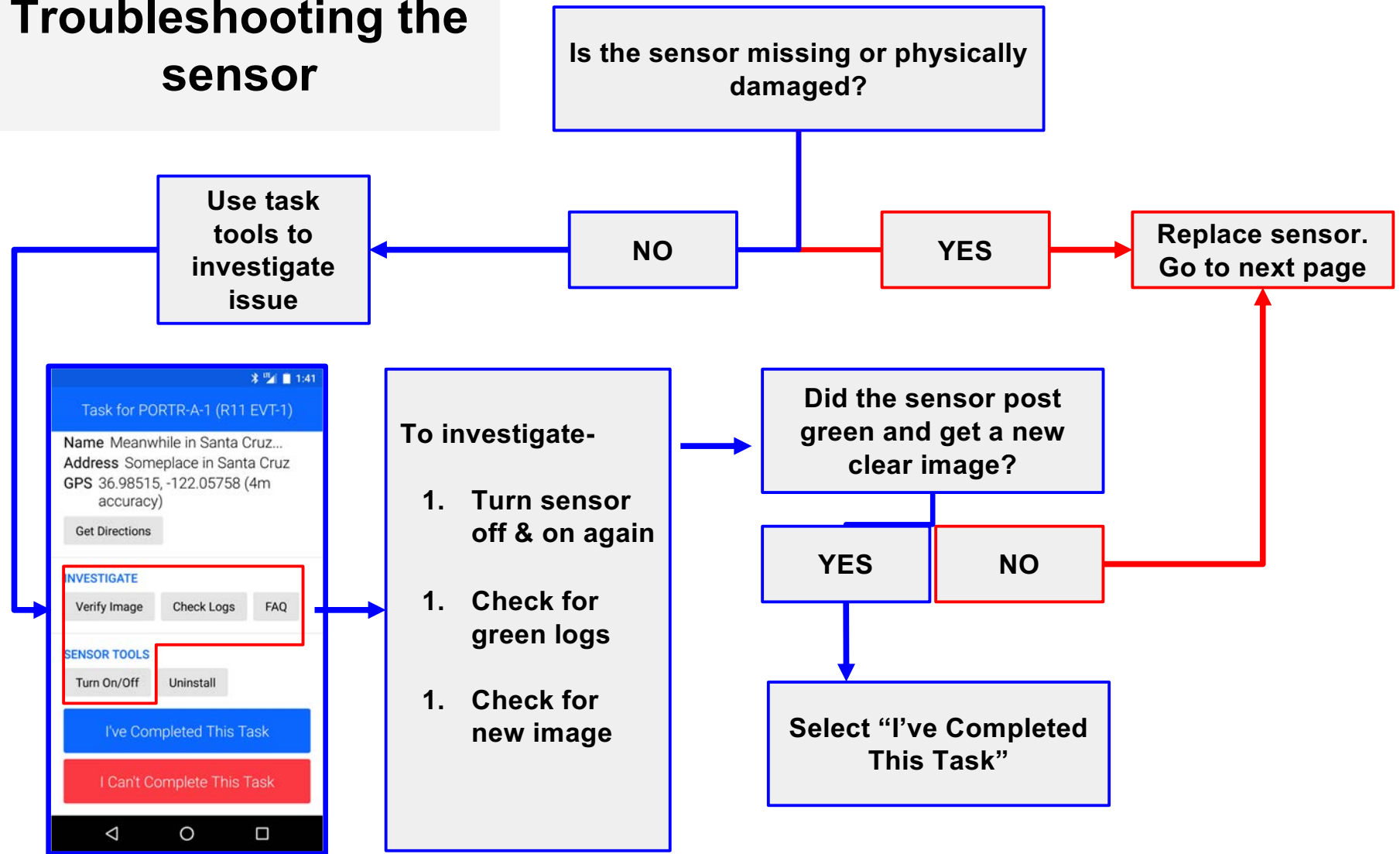
2. Scroll down



Select options, Skip Task



Troubleshooting the sensor

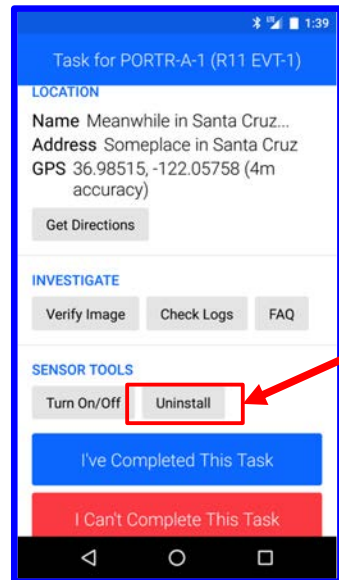


Replacing a sensor

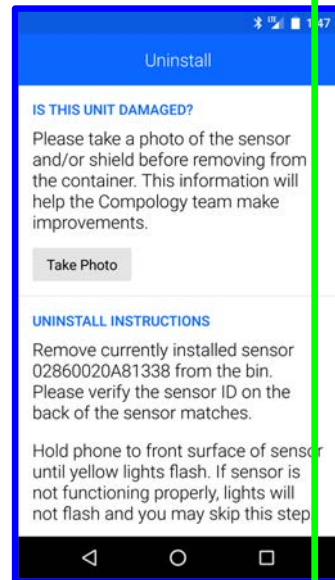
Procedure to replace a sensor

1. In the task, select “uninstall”
2. Turn off sensor
3. Complete Uninstall - Continue to next page

1. Select “Uninstall”

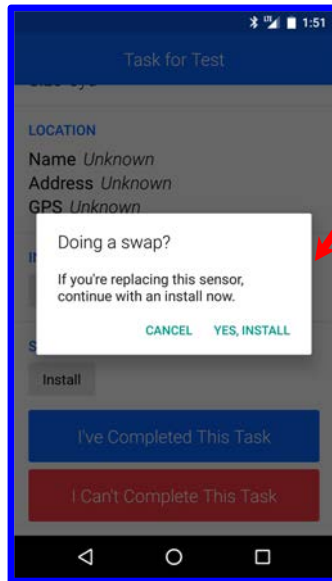


2. Uninstall instructions



3. Complete Uninstall





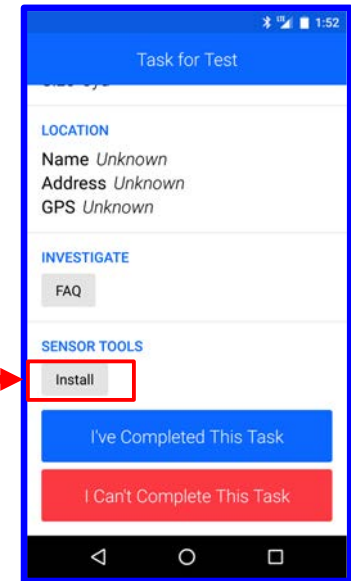
Replacing a Sensor (continued)

Procedure to replace a sensor

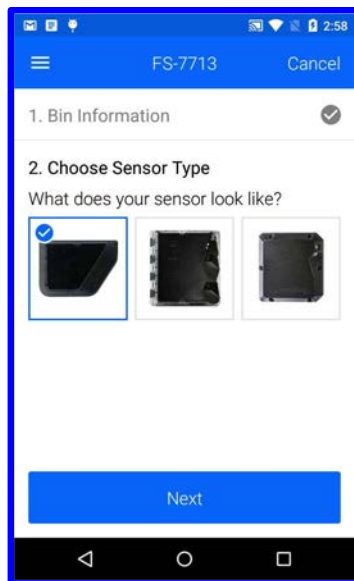
Click “Yes, Install” button on swap window

If window does not appear, click “install” in task

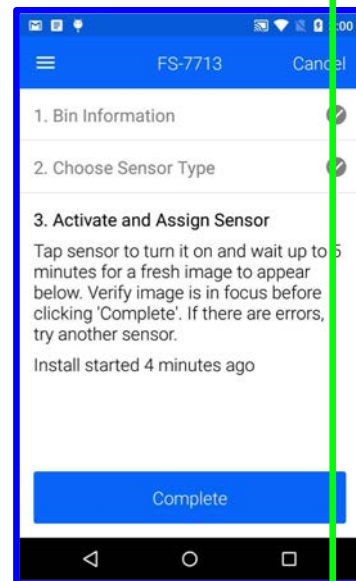
1. Select new sensor type
2. Turn on new sensor
3. If sensor flashes green light, select “complete”



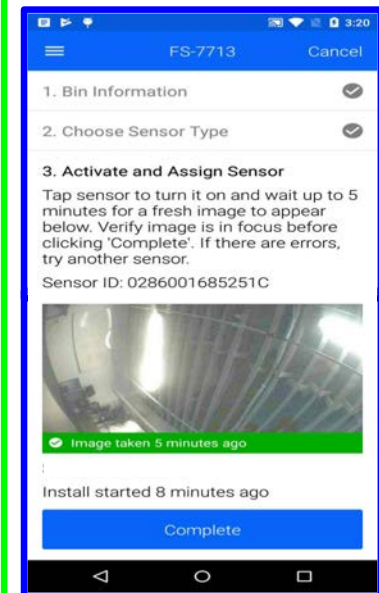
1. Select Sensor Type



2. Activate sensor



3. After green light, select “Complete”





After Completing a Task

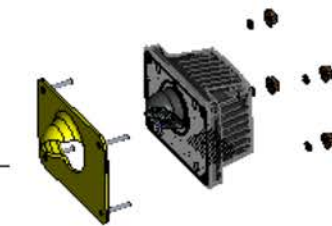
RETURNING SENSORS

- All damaged or malfunctioning sensors must be marked with tape and shipped back to Compology HQ
Address:
 - 1045 Bryant Street, Suite 101, San Francisco, CA 94103
 - Fedex Account to charge will be provided by Compology

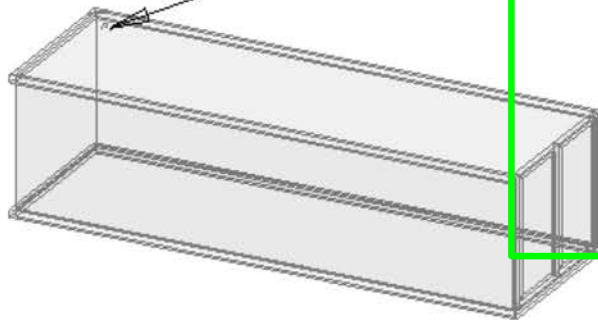
Physical Install & Uninstall Overview

R13 Roll Off Install Instructions

compology



SENSOR &
SHIELD



30YD ROLL OFF BIN

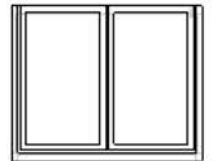
SENSOR LONG FACE
OPPOSITE DOOR END
TOP BACK CORNER



TOP VIEW



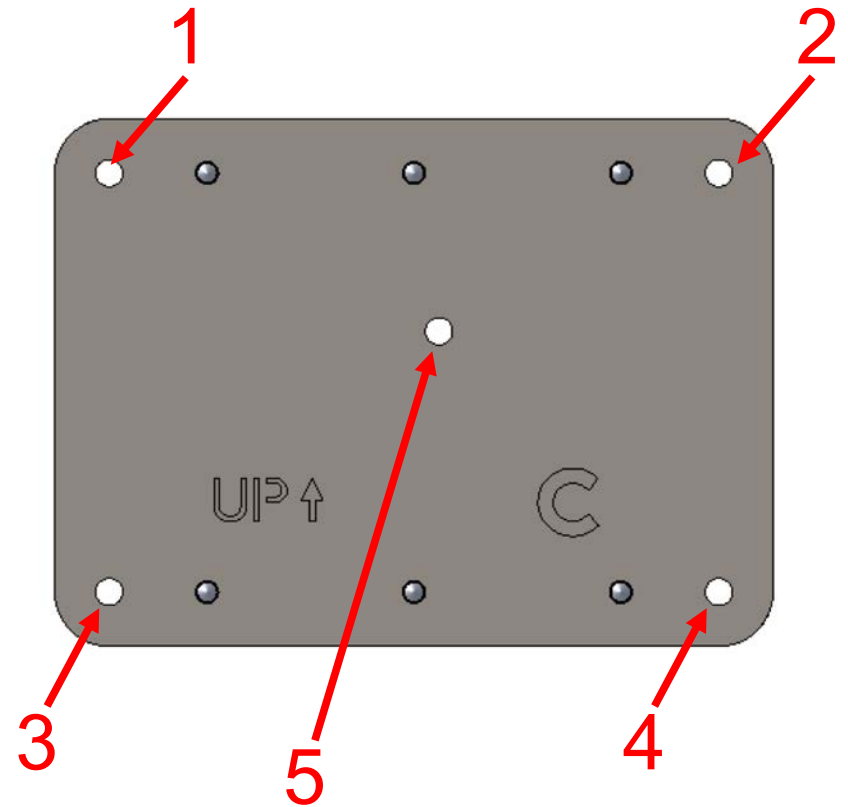
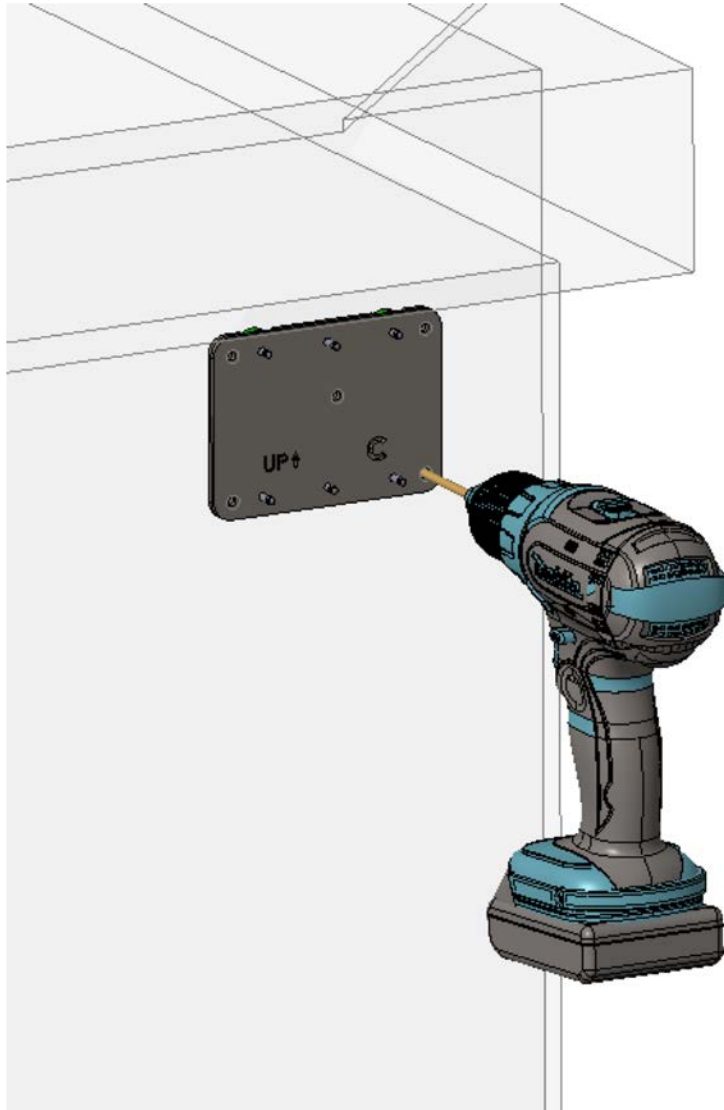
SIDE VIEW



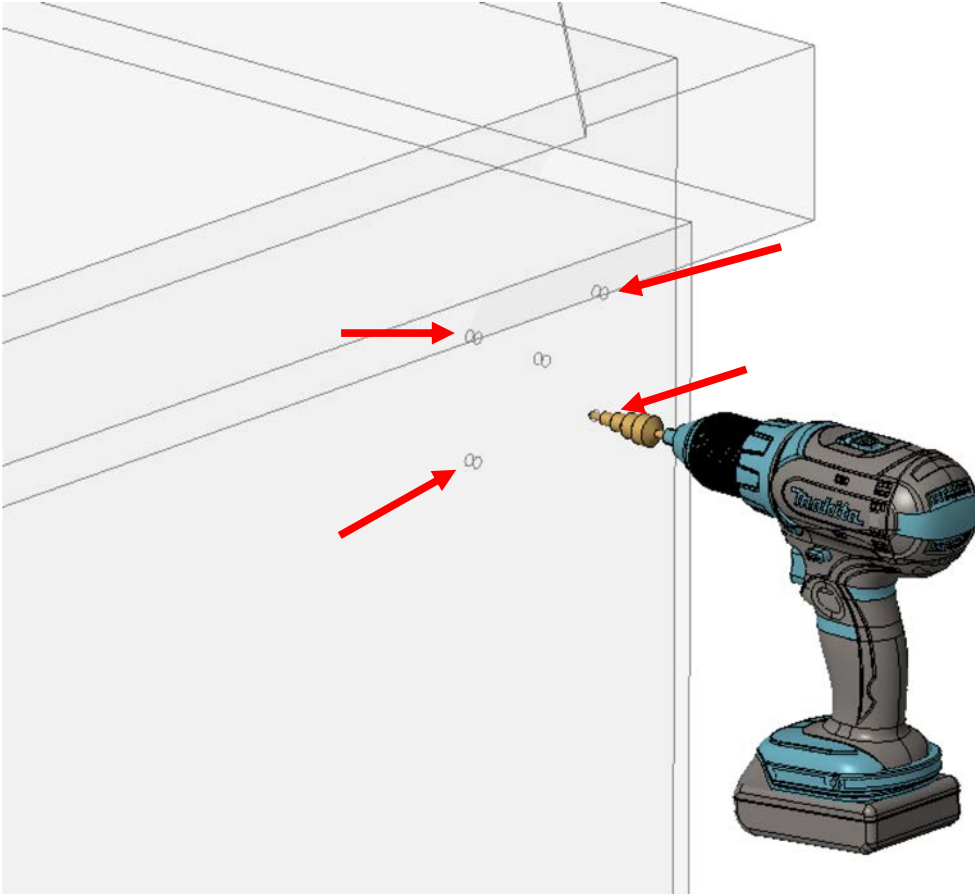
DOOR END

1. COMPLETE 'NEW INSTALL' WITH COMPOLOGY TECHNICIAN APP
2. POSITION TEMPLATE BELOW BIN'S TOP BOX BEAM
3. DRILL FIVE 3/16" HOLES (ALL CORNERS PLUS TURRET CENTER)

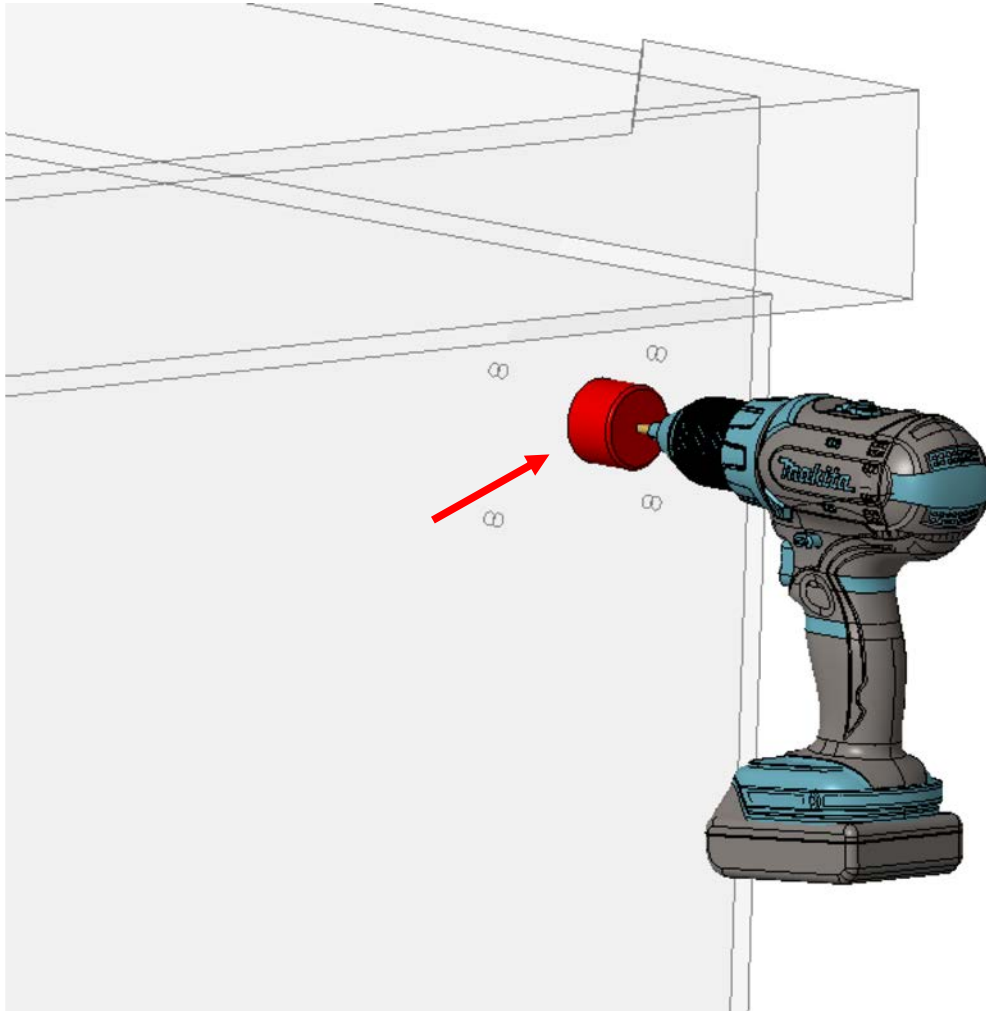
See 'Mounting Locations' document for positioning



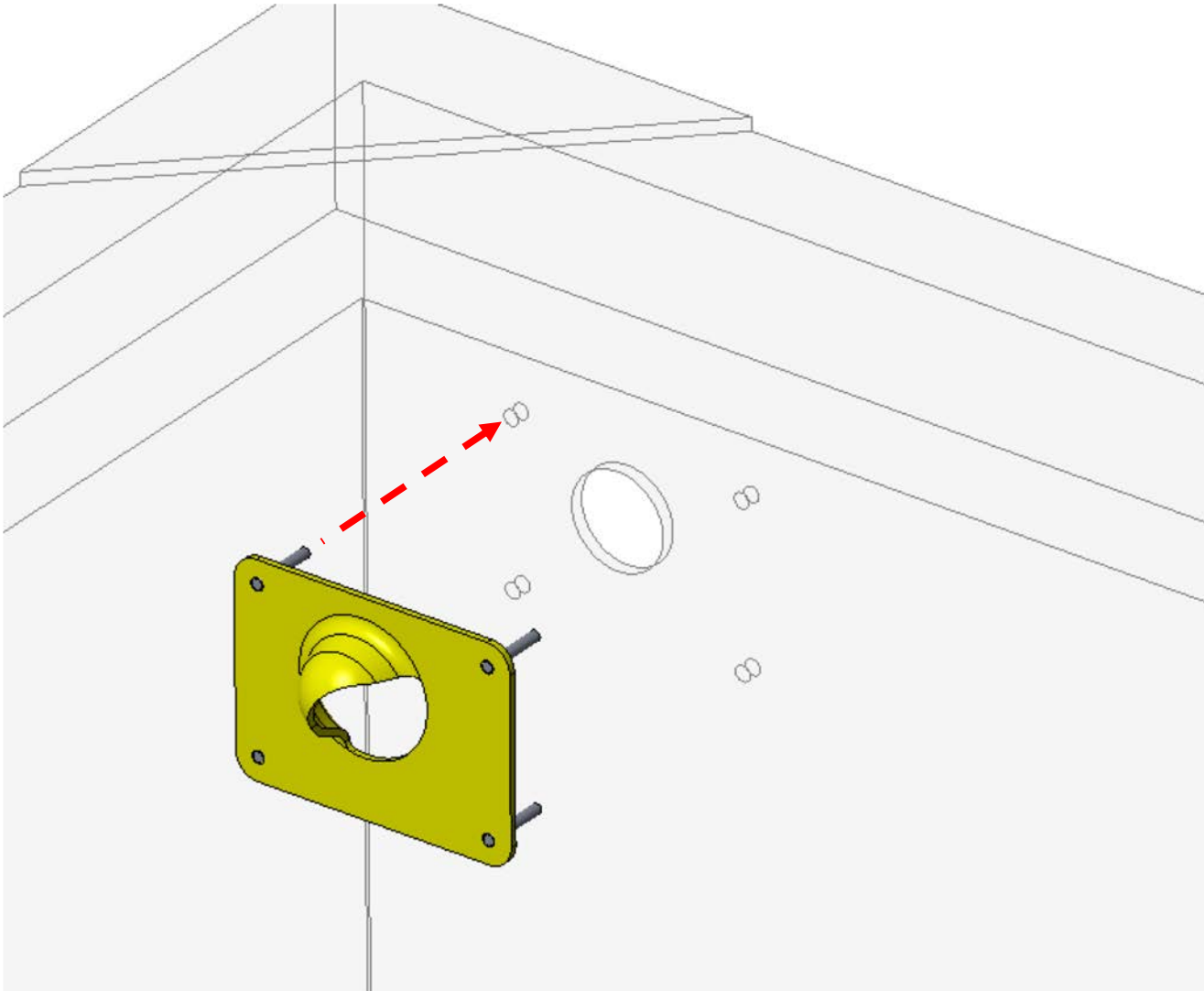
4. OPEN UP CORNER HOLES USING STEP BIT



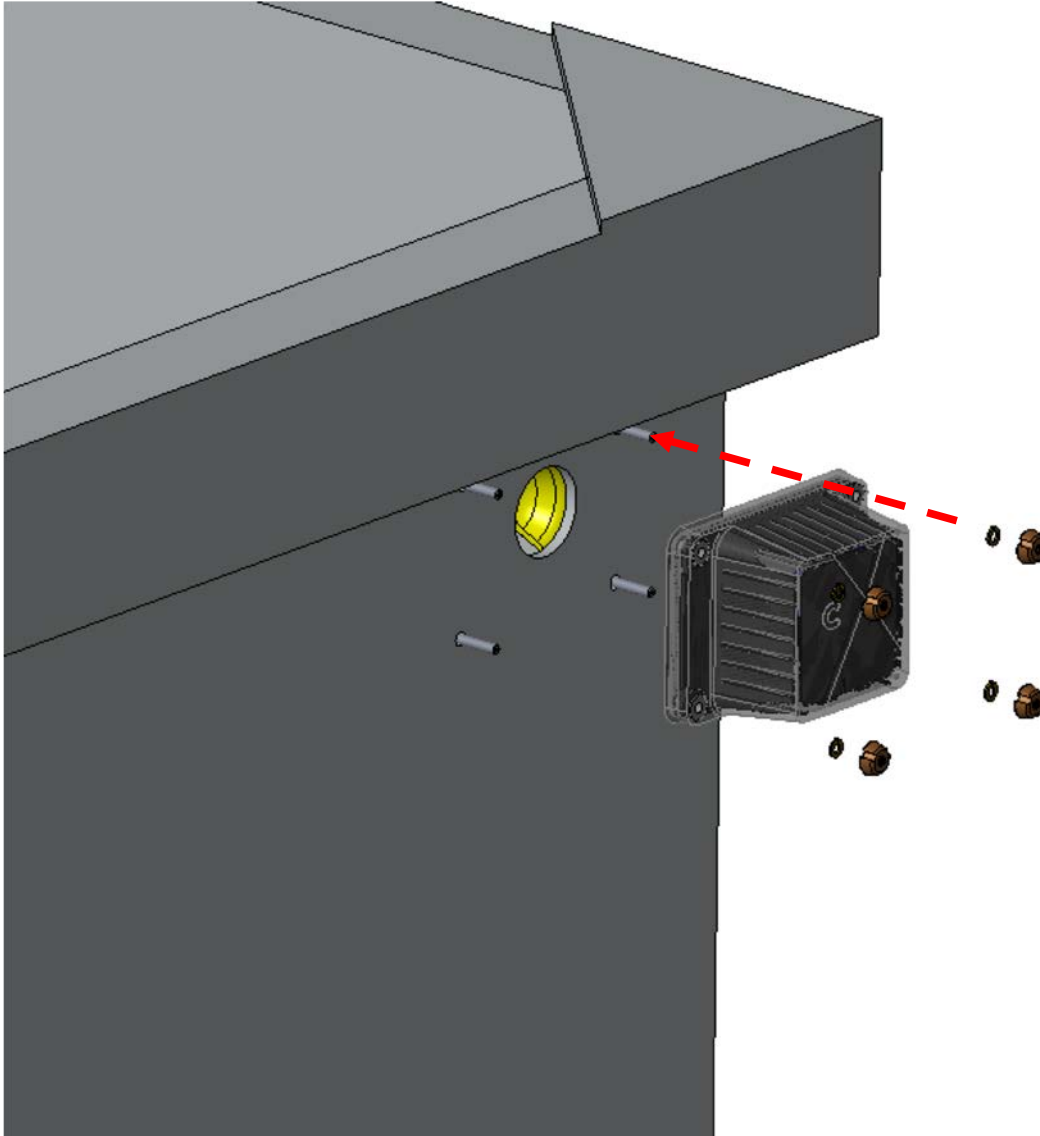
5. DRILL OUT CENTER HOLE WITH HOLE SAW



6. REMOVE TAPE LINERS AND PLACE SHIELD ON INSIDE OF BIN. STUDS SHOULD ALL PENETRATE HOLES



7. PLACE CAMERA ON STUDS (OUTSIDE OF BIN)
8. SECURE USING LOCK WASHERS AND SECURITY NUTS



**DO NOT LOAD
FROM THIS
CORNER**

compology
equipped



WASTEQUIP

877.468.9278 ▲ www.wastequip.com



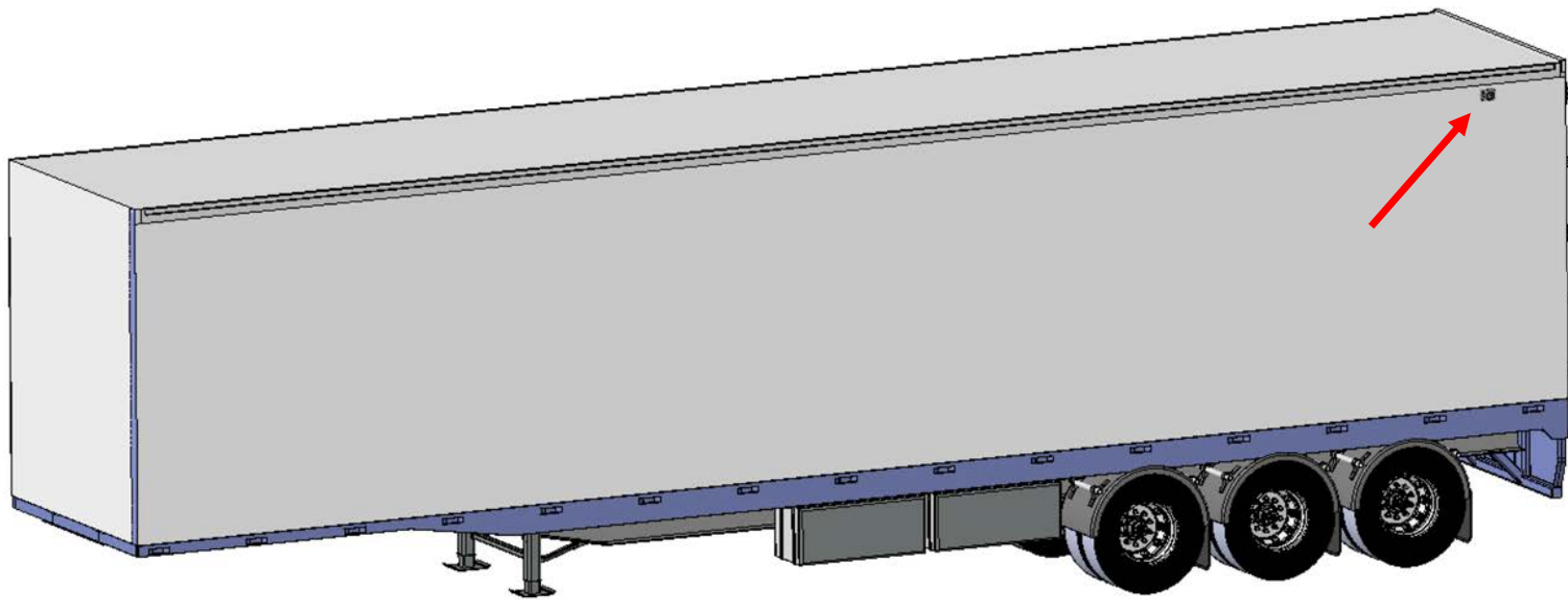
Sticker

compology

R13L Trailer Install Instructions

**MOUNTING LOCATION:
DOOR END, AS HIGH AS POSSIBLE.**

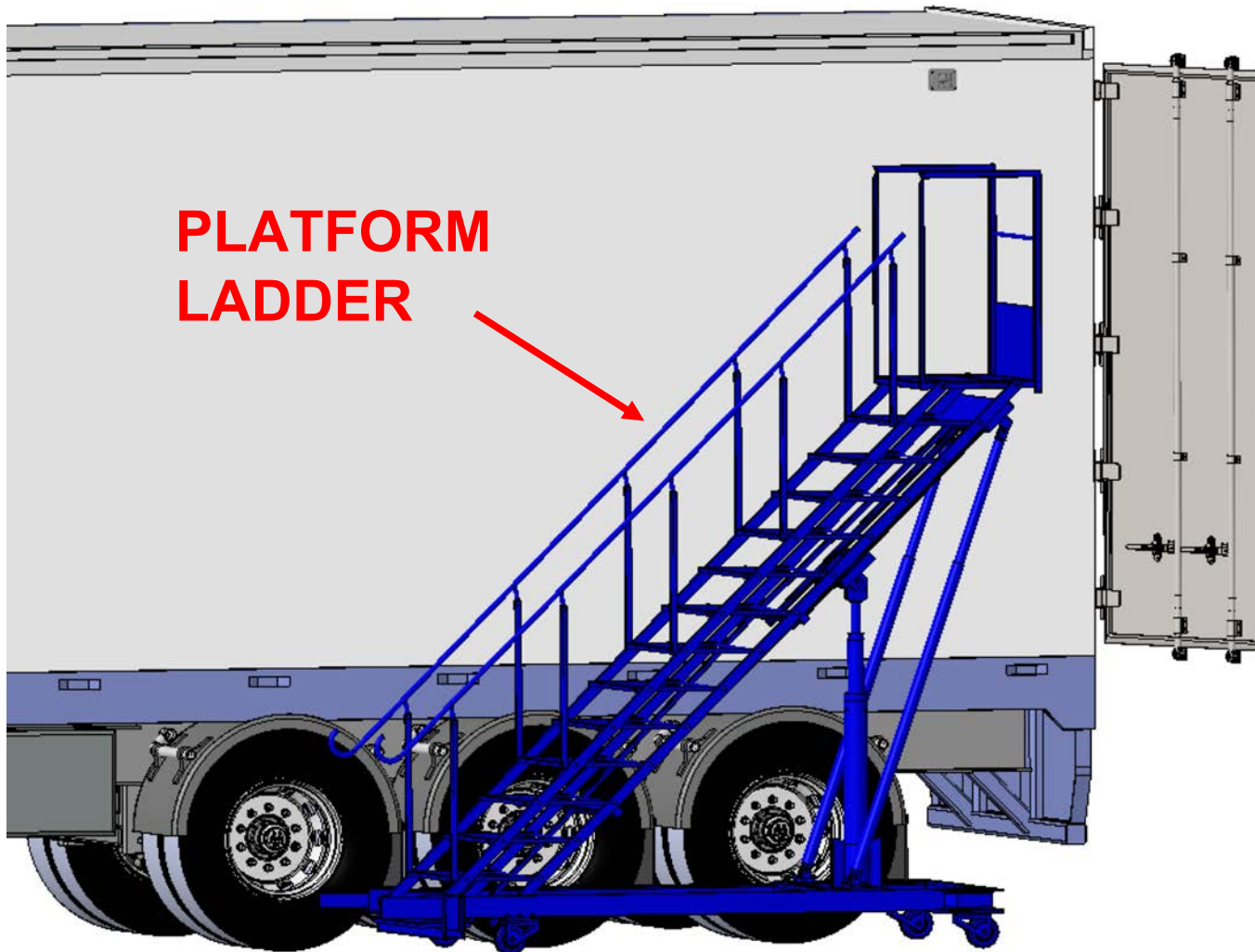
- AVOID DOOR IMPACT
- AVOID STIFFENERS
- BELOW ROLL-UP DOOR TRACK (IF APPLICABLE)
- AVOID RIVETS AND OTHER PROTRUSIONS



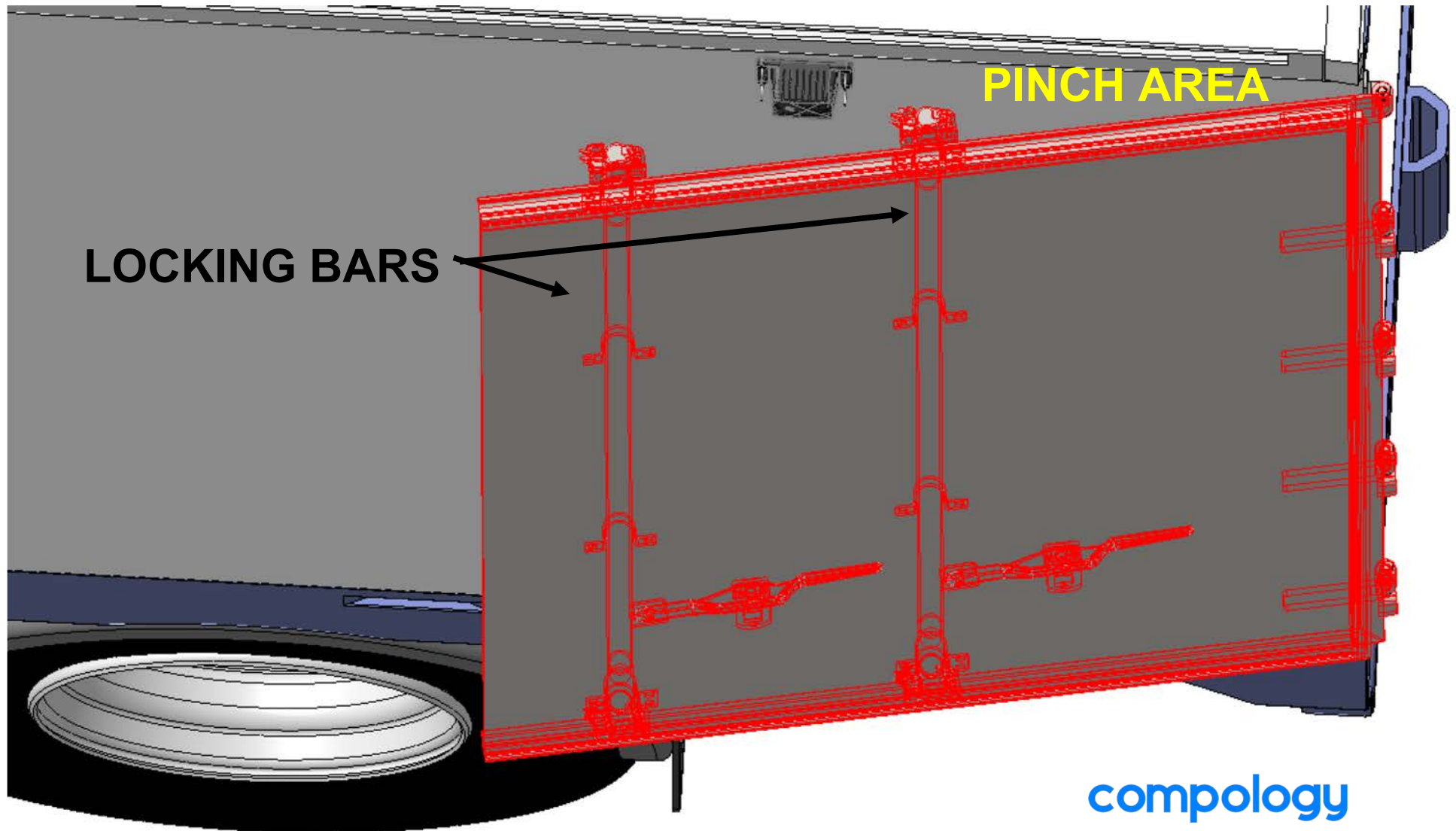
LADDER SAFETY IS VERY IMPORTANT!

- **USE A PLATFORM LADDER, IF POSSIBLE**
- **NEVER USE AN EXTENSION LADDER**

**PLATFORM
LADDER**

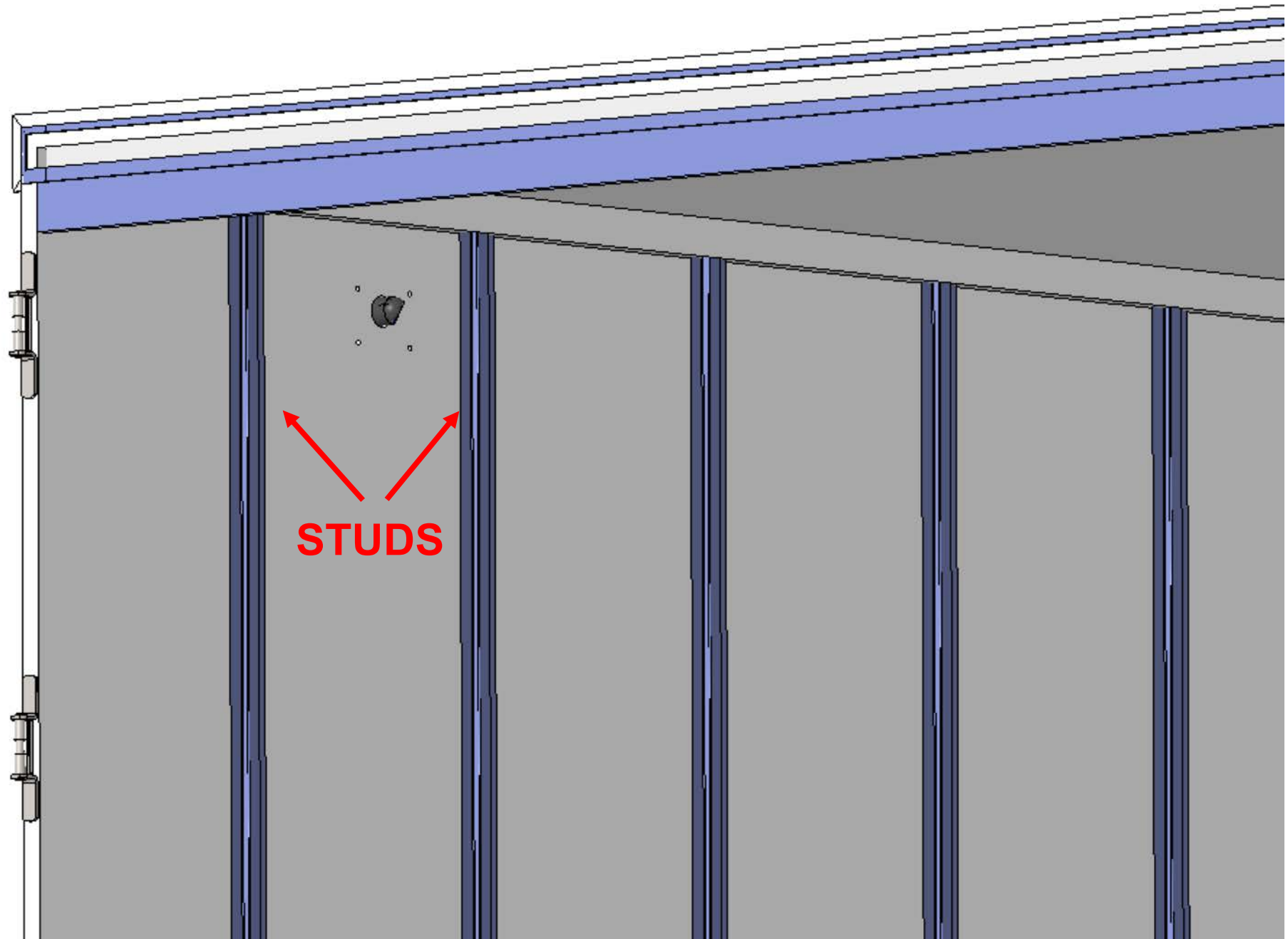


**MAKE SURE TO PLACE IT FAR ENOUGH FORWARD TO AVOID
DOOR PINCH.
THIS TYPICALLY MEANS IN FRONT OF THE FIRST LOCKING
BAR.**



MAKE SURE TO AVOID STUDS / STIFFENERS.

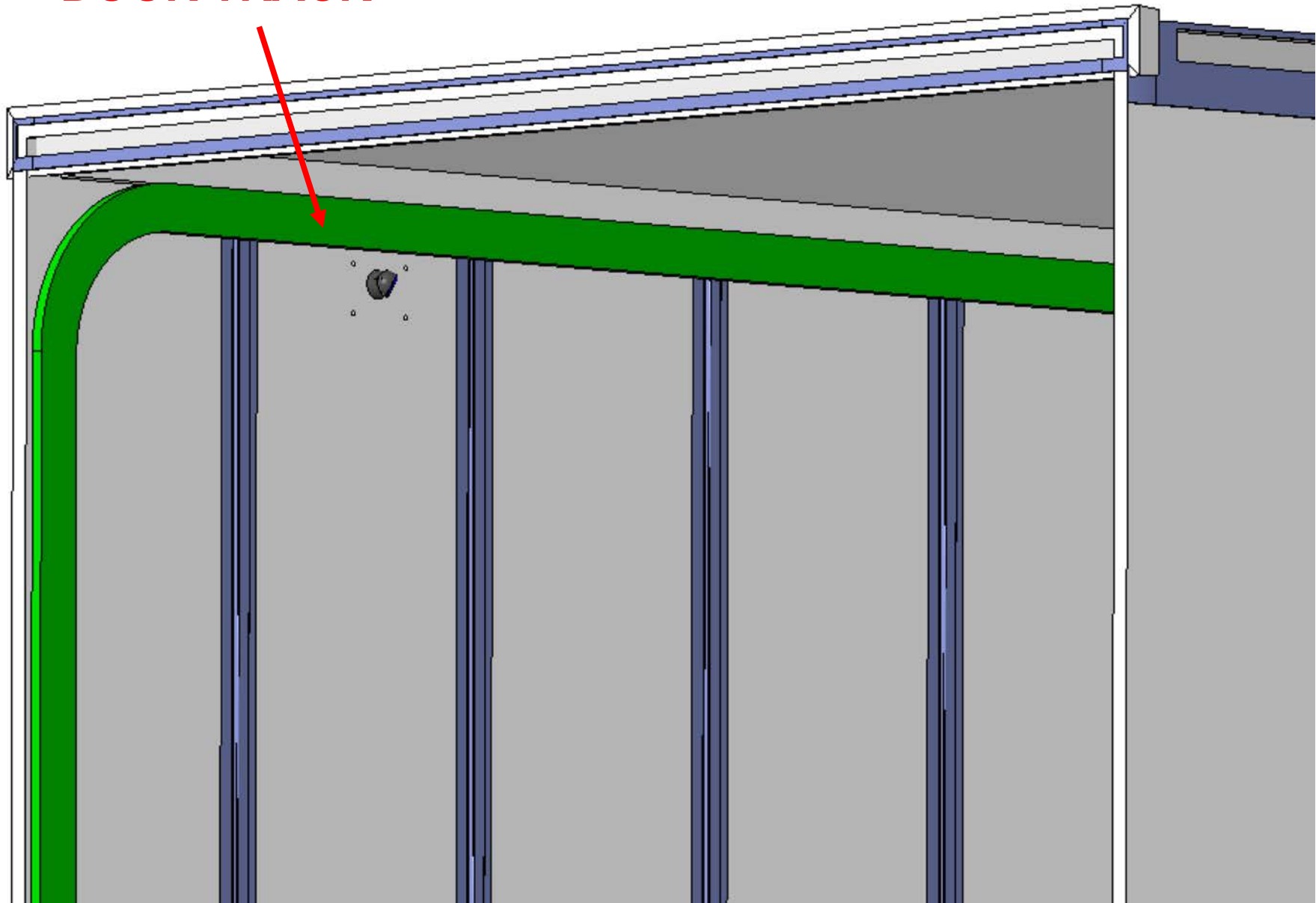
compology



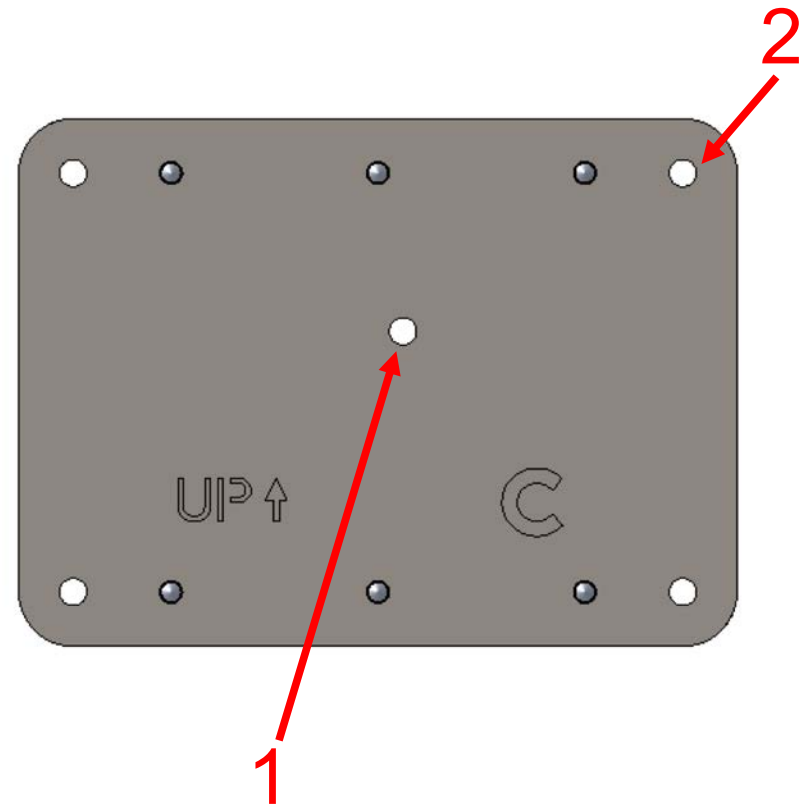
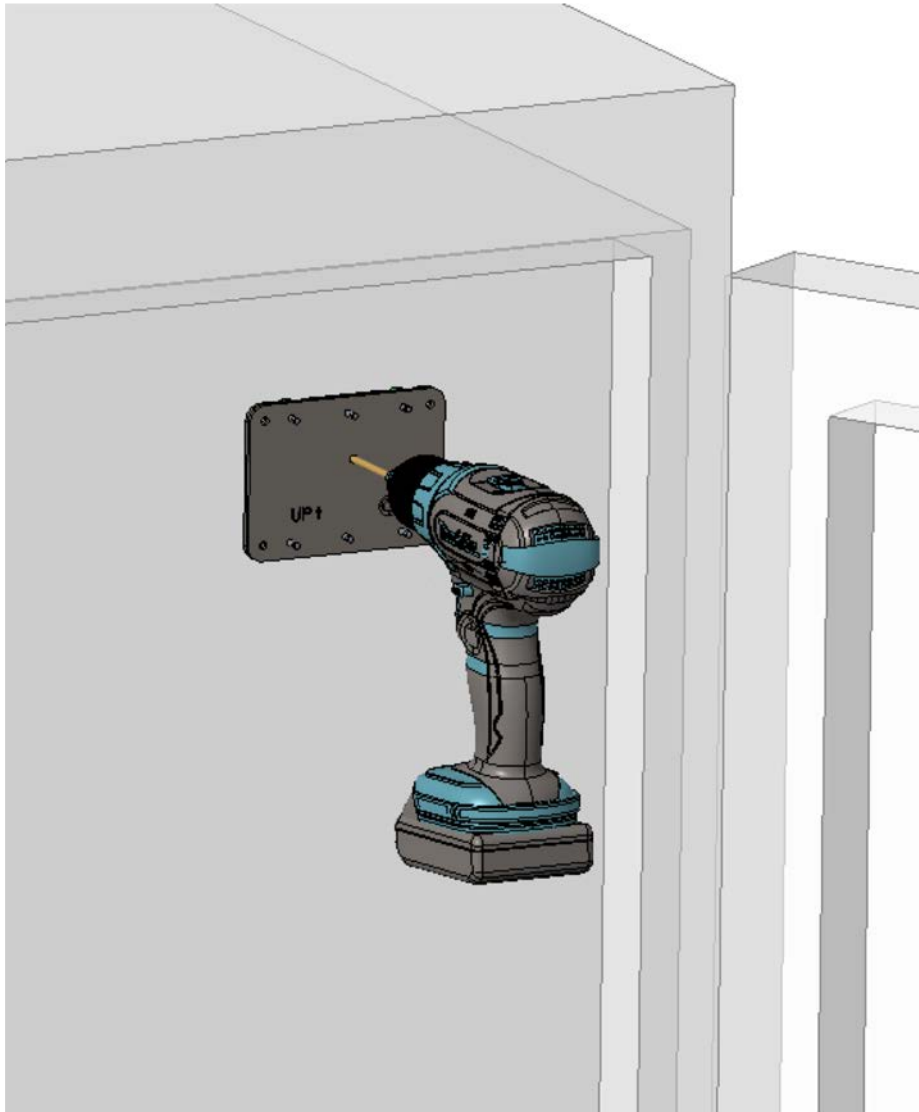
IF THE TRAILER HAS A ROLL-UP DOOR, PLACE THE SENSOR
BELOW THE TRACK.

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DOOR TRACK

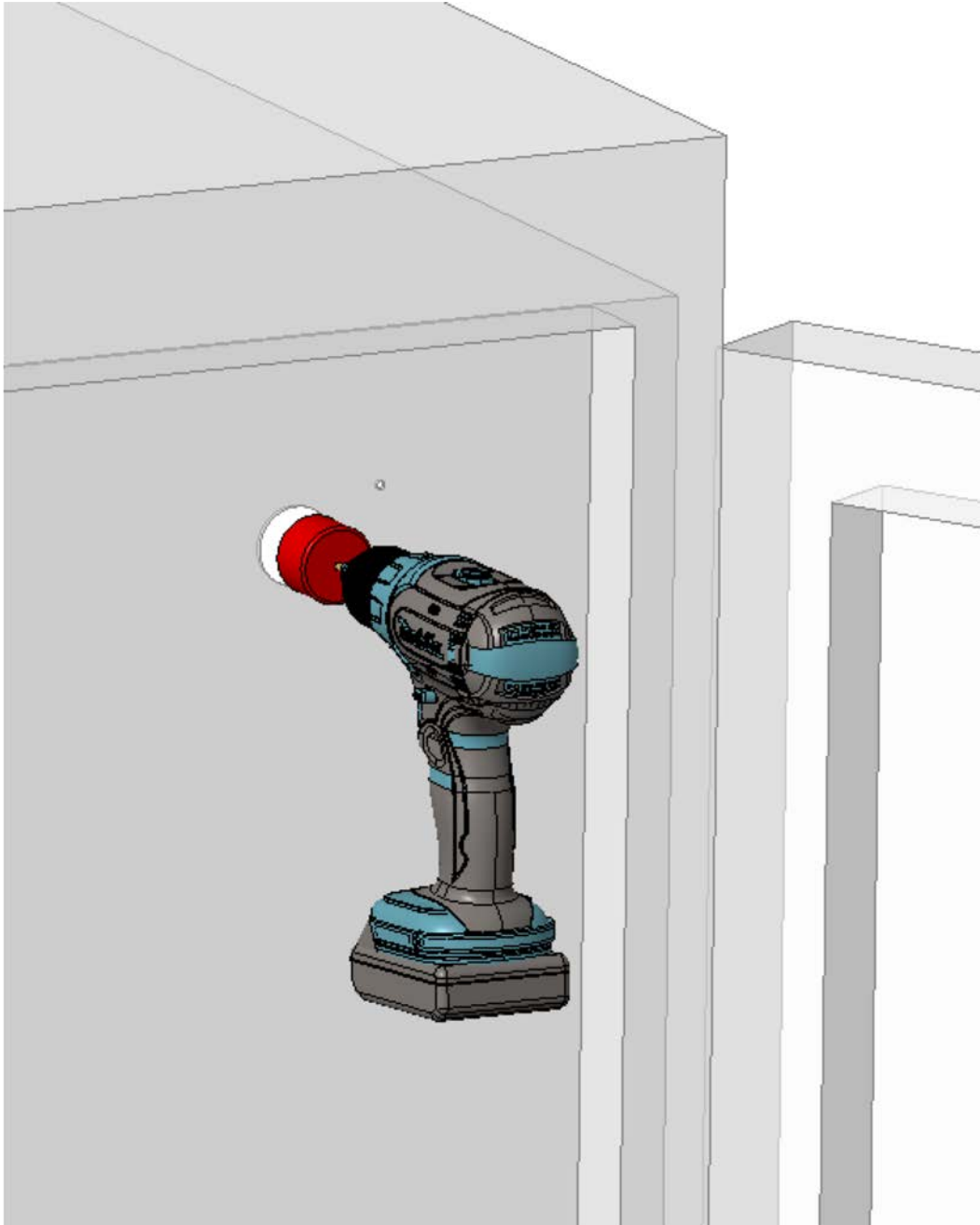


1. COMPLETE 'NEW INSTALL' WITH COMPOLOGY TECHNICIAN APP
2. PLACE TEMPLATE ONTO TRAILER WALL
3. DRILL CENTER HOLE AND ONE CORNER USING 3/16" DRILL BIT



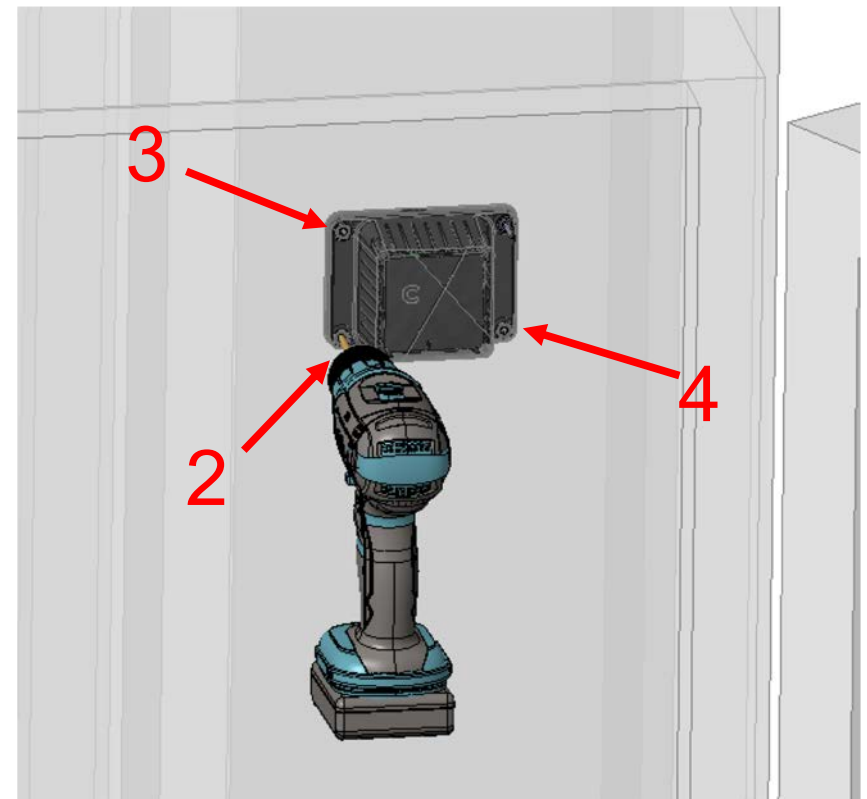
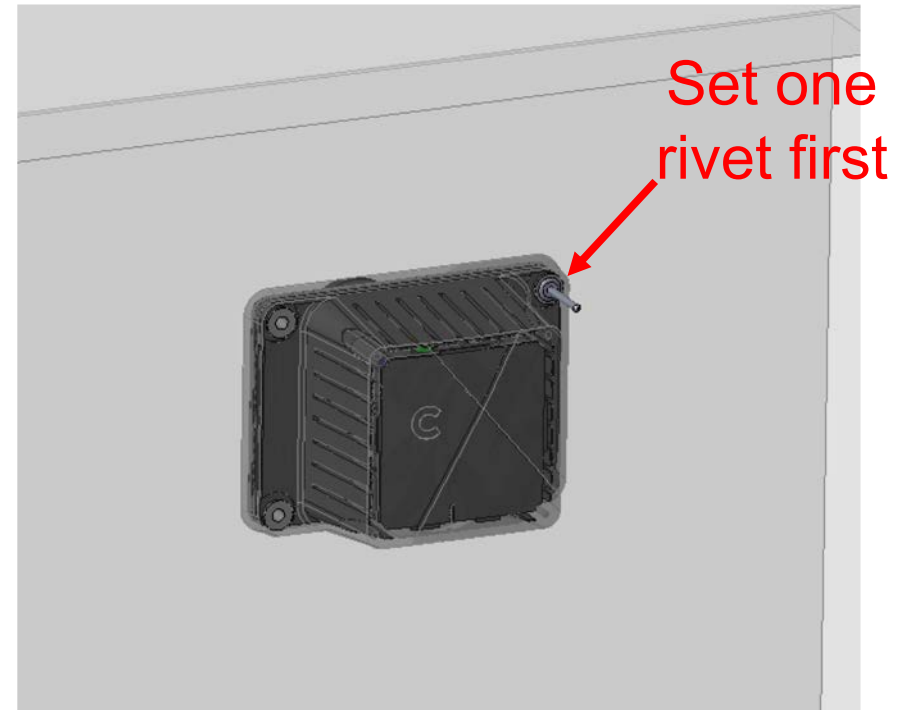
compology

5. DRILL OUT CENTER HOLE WITH HOLE SAW



5. PLACE R13L INTO LOCATION AND RIVET ONE CORNER.

6. MATCH-DRILL AND RIVET OTHER CORNERS





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