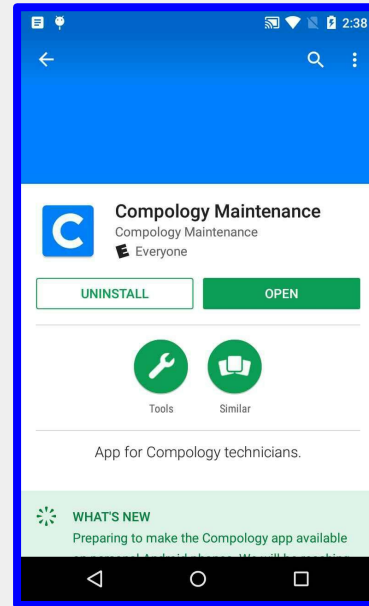




Compology R12 User Manual / Installation Instructions

The Basics



ID LABEL

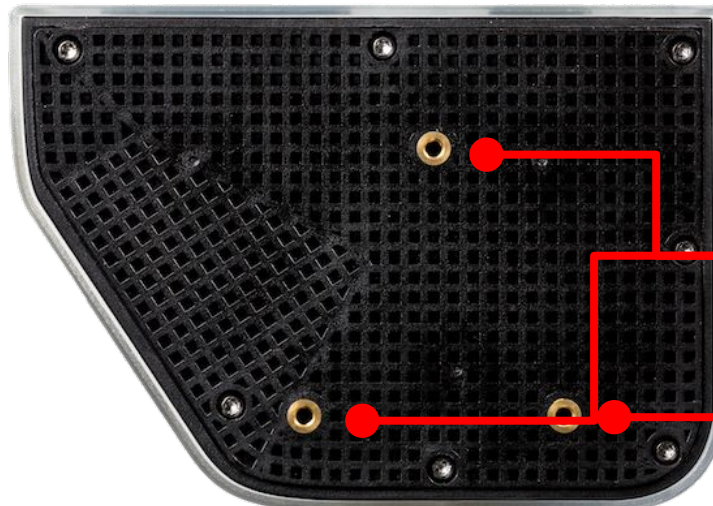
STATUS INDICATOR LIGHT

- Turning On
- Turning Off
- Sensor Good
- Sensor Error (Check Logs)

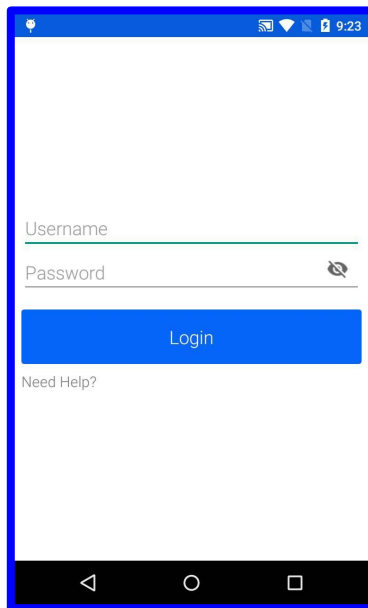


CAMERA

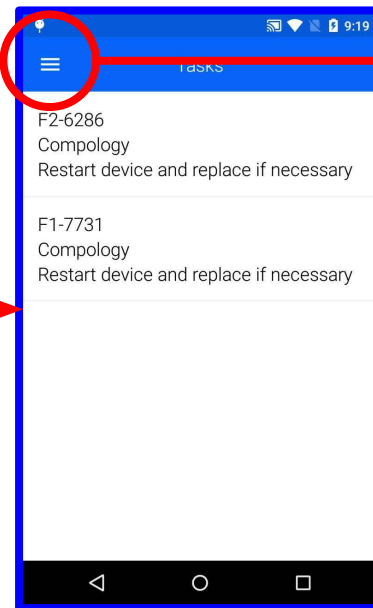
FLASH



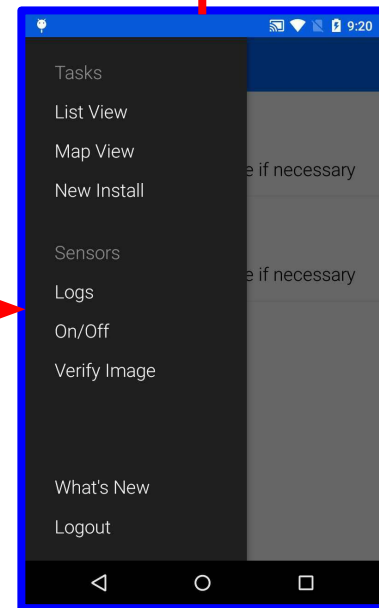
MOUNTING POINTS



1. Login

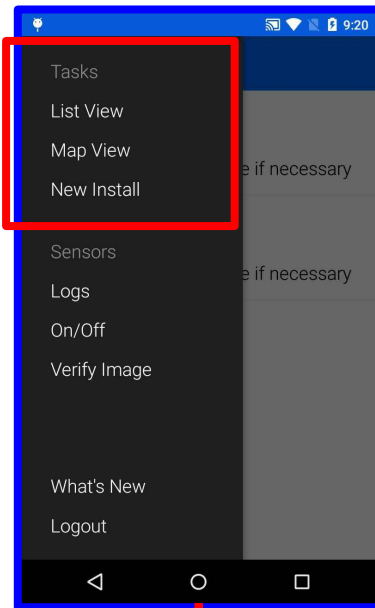


2. Click Icon



Main Menu

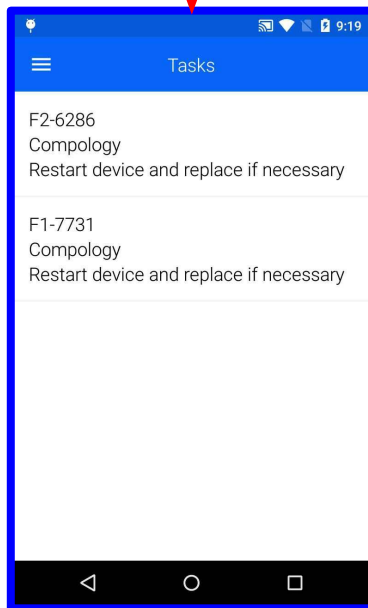
3. Main Menu



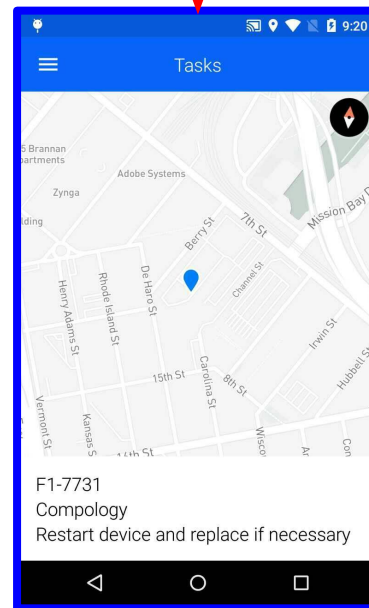
Tasks

Start here to complete maintenance tasks or installs

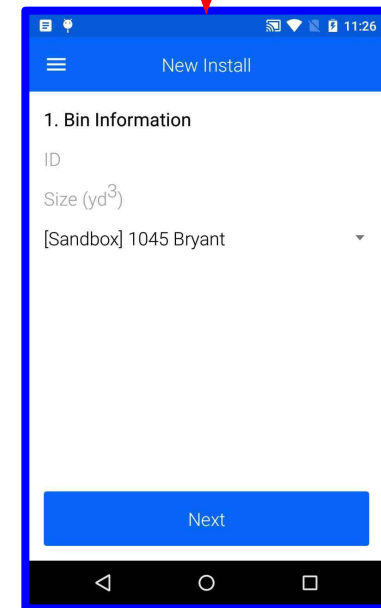
- **List View** – View of maintenance tasks in a list
- **Map View** – View of maintenance tasks on a map
- **New Install** – Create a new bin and assign a sensor



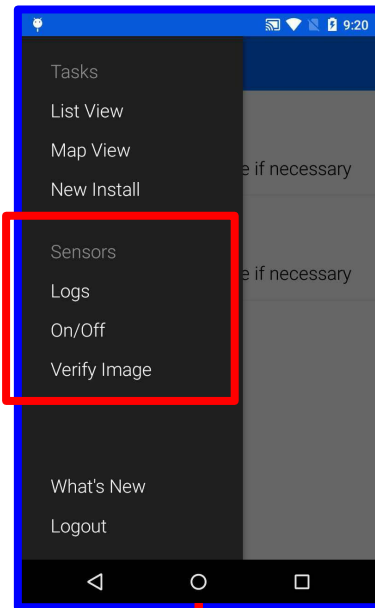
List View



Map View



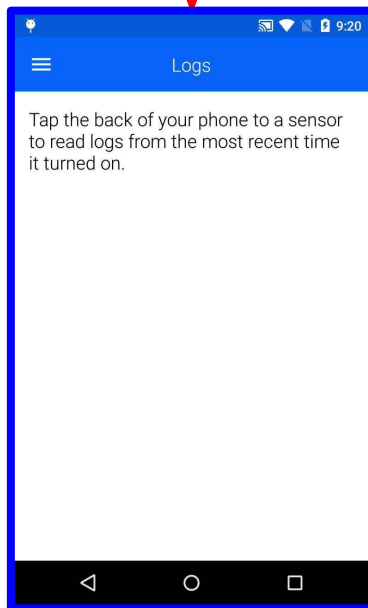
New Install



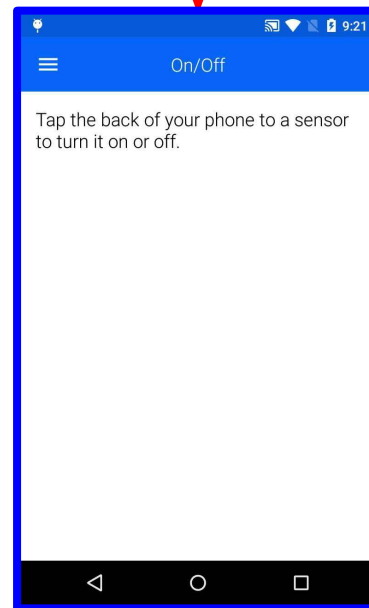
Sensor Tools

Tap phone to sensor to interact and get info

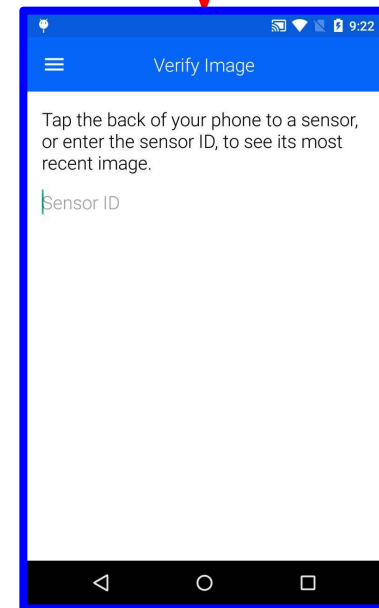
- **Logs** – View diagnostic info on a sensor
- **On/Off** – Turn sensor on or off
- **Verify Image** – See the latest image from a sensor



Logs

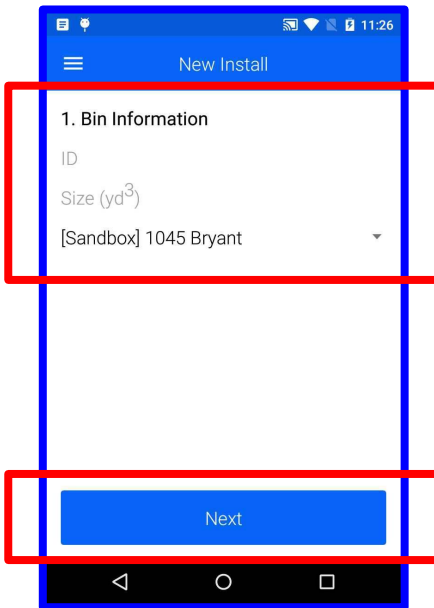


On/Off



Verify Image

New Install

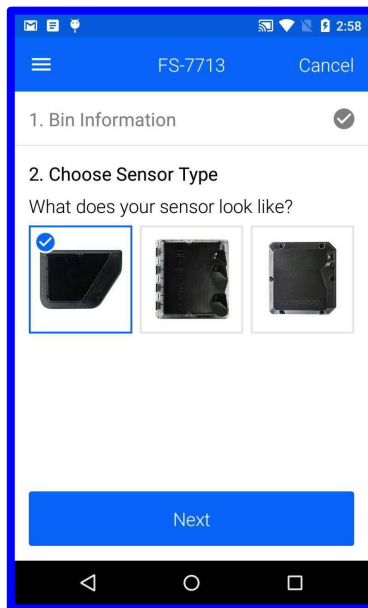


1. ENTER BIN INFORMATION

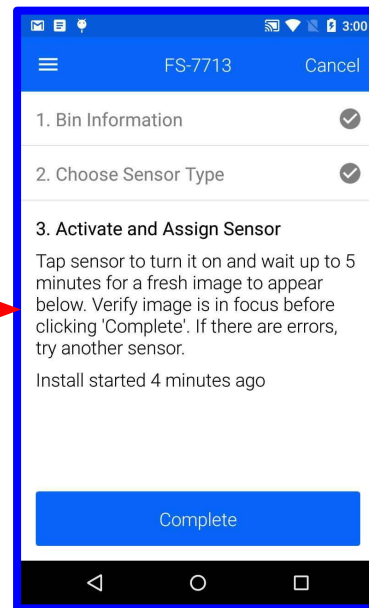
- **ID** – Enter number/name on outside of bin
- **Size** – Enter the size of bin in cubic yards
- **Organization** – Select the organization for this bin
- **Content** – Select the type of material in container

CLICK & HOLD

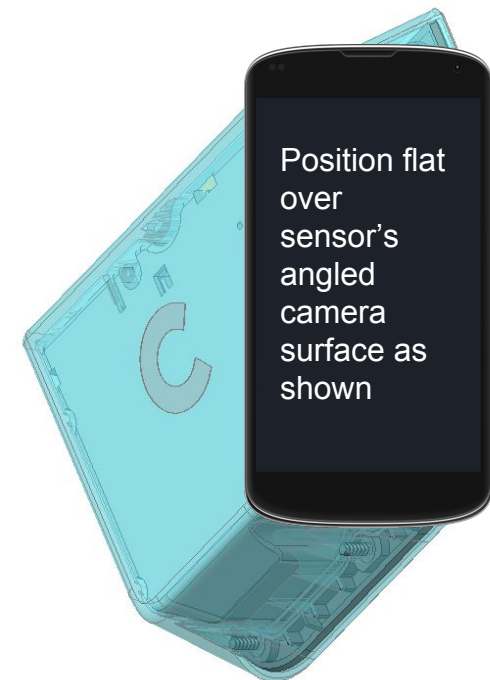
IMPORTANT: You will need to select an organization if you are assigned to multiple. Make sure you select the correct one!



2. CHOOSE SENSOR TYPE



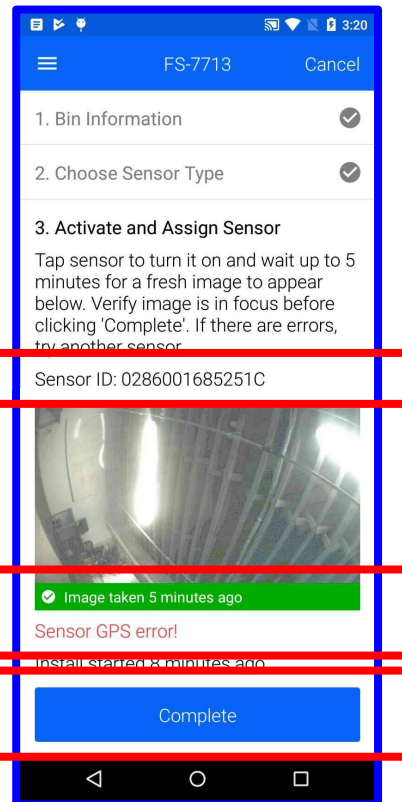
3. TAP PHONE TO SENSOR TO ACTIVATE



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

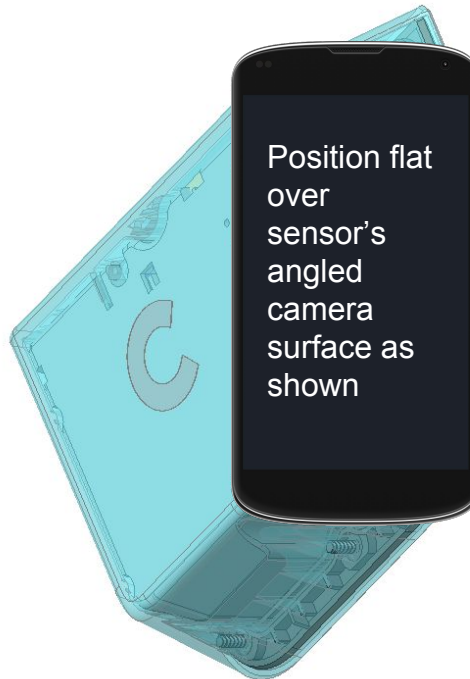
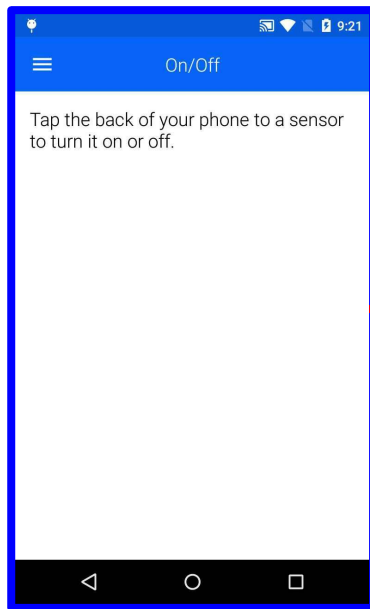
IMPORTANT: Do not install sensor with GPS error.

Turning Sensor On/Off

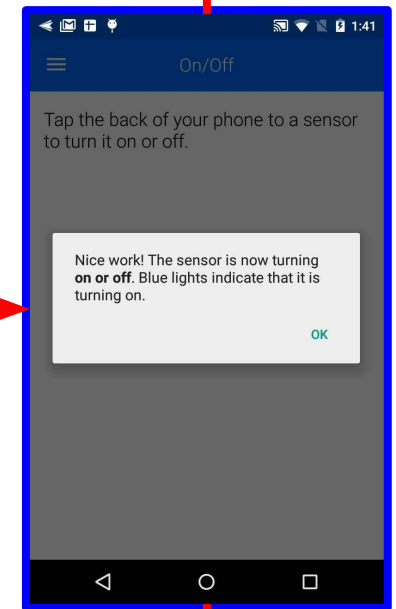
On/Off will be used to turn a sensor on or off when not in a task. You can use it to restart a sensor you want to check.

TURNING ON

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



“DING!”



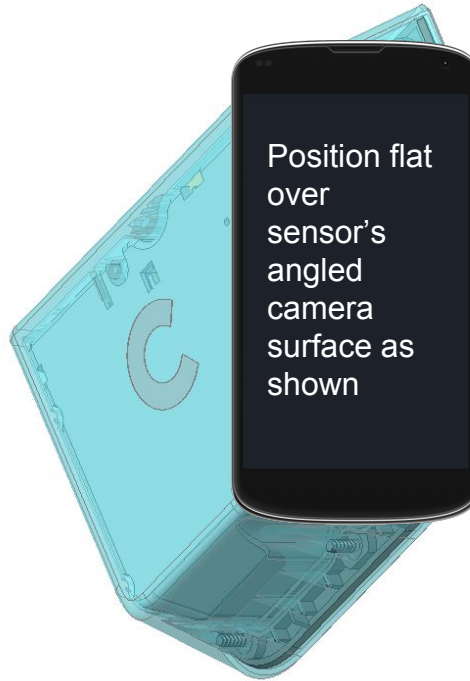
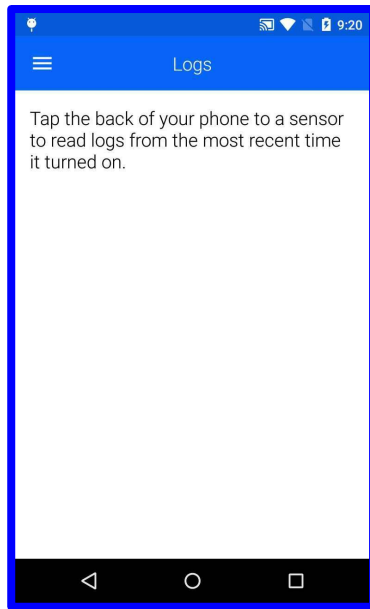
IMPORTANT: Make sure any sensors in your bag or inventory are OFF and all sensors you are installing into bins are ON. Pay careful attention to the indicator lights.

TURNING OFF

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



Checking Sensor Logs



“DING!”

Green = Good
Red = Error



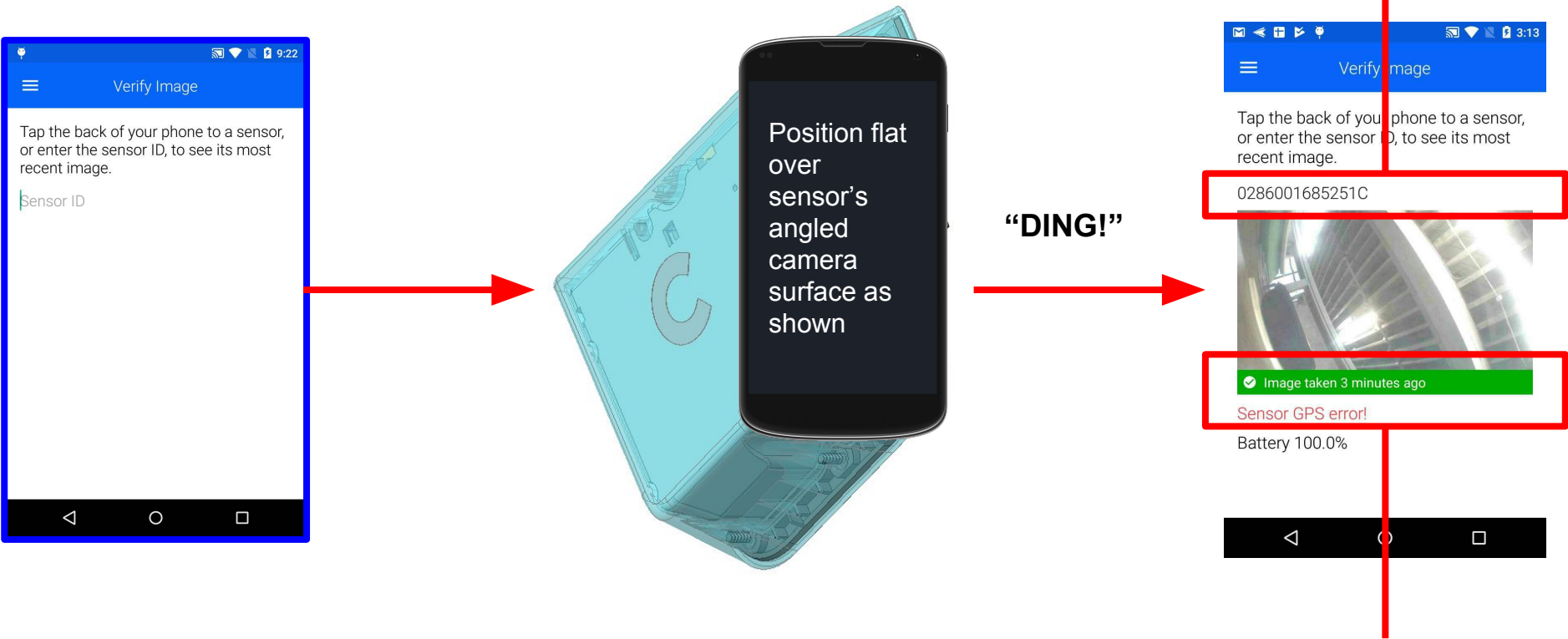
Logs should be used to identify root issues when a sensor is not uploading an image. It can only be taken after a sensor has gone through its startup sequence and the indicator light is no longer flashing.

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

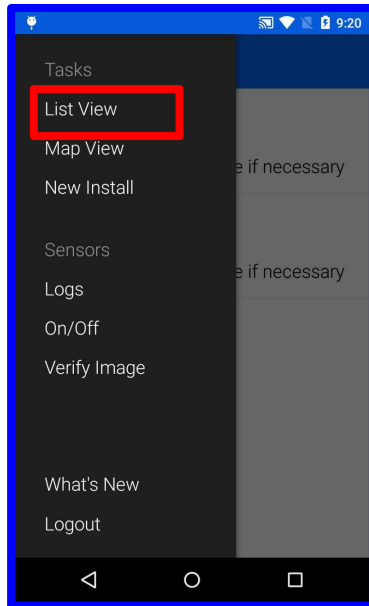
Verify Image

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



**VERIFY GREEN IMAGE &
NO ERRORS**

Maintenance

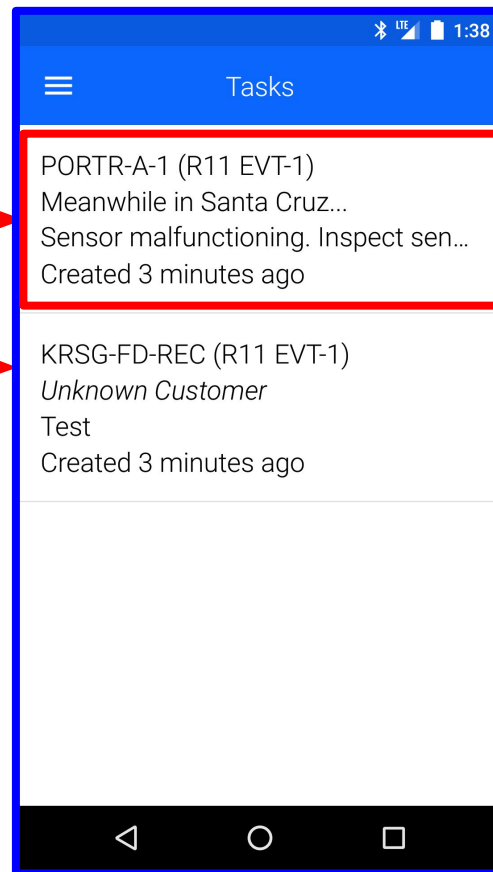


Viewing Tasks

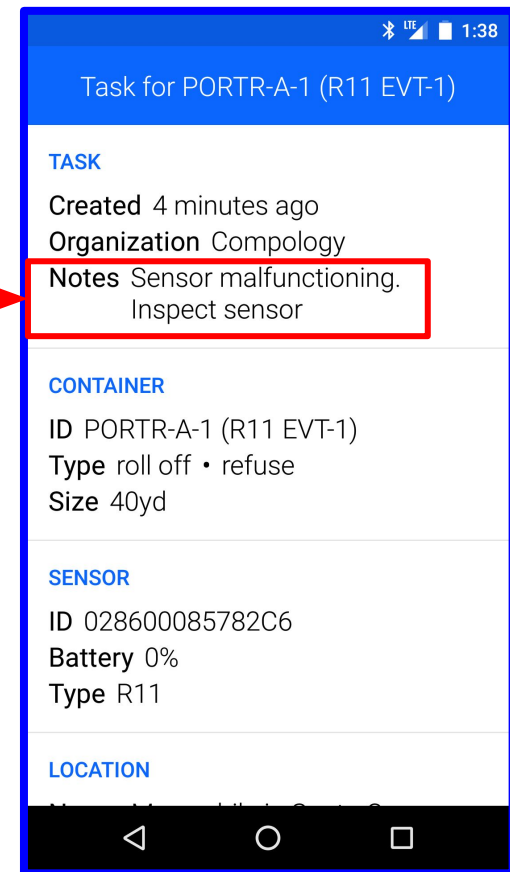
Start here to complete maintenance tasks

- **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



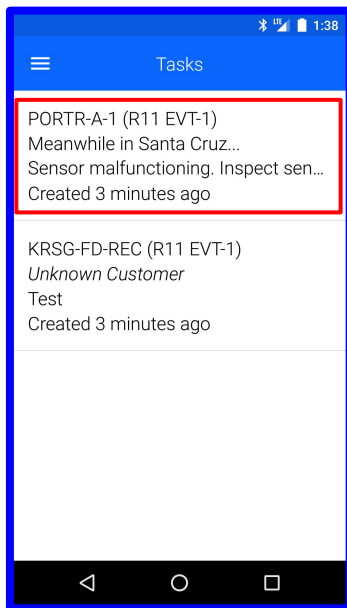
Task Details

Finding the Sensor

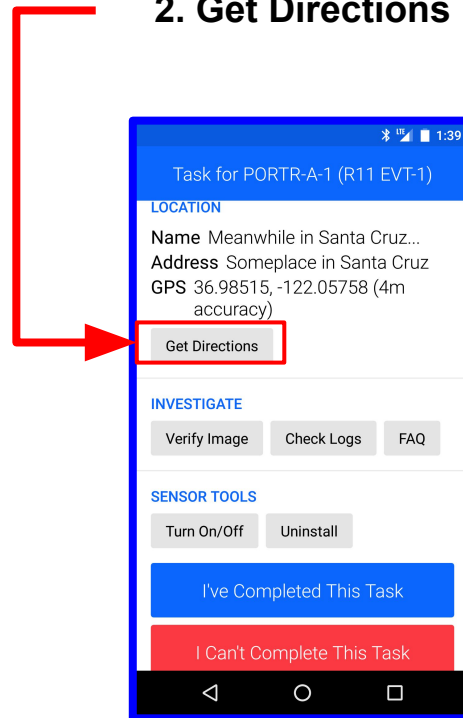
Find the last known location of the sensor

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”

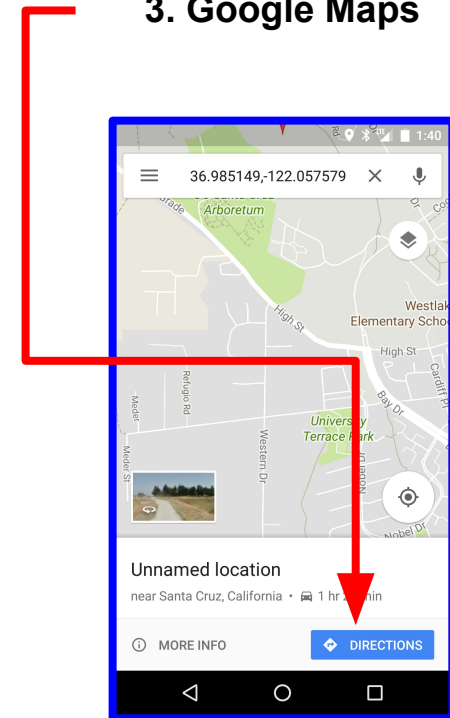
1. Select Task



2. Get Directions



3. Google Maps



Can't find the Container

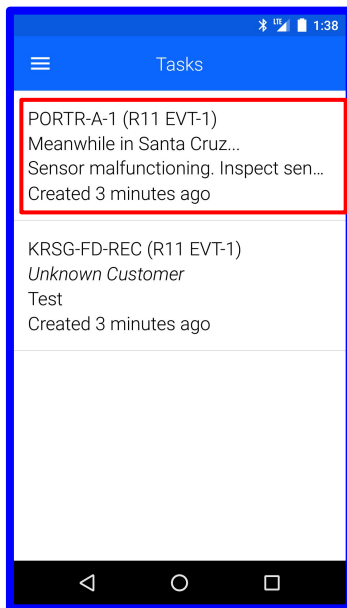
If you arrive to the location provided by Google Maps and the container is not there, or you cannot access the location:

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"

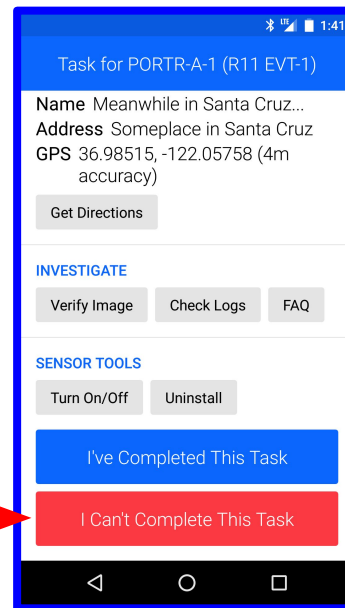
You've located the container?

CONTINUE TO NEXT PAGE

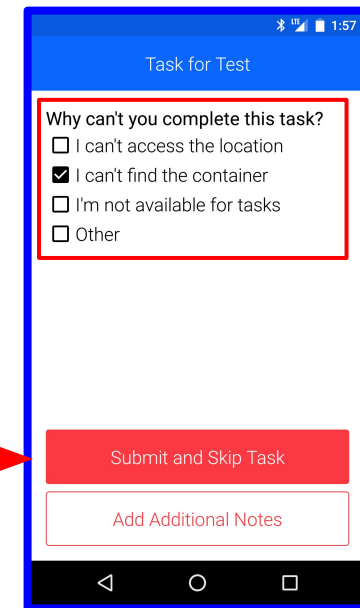
1. Select Task



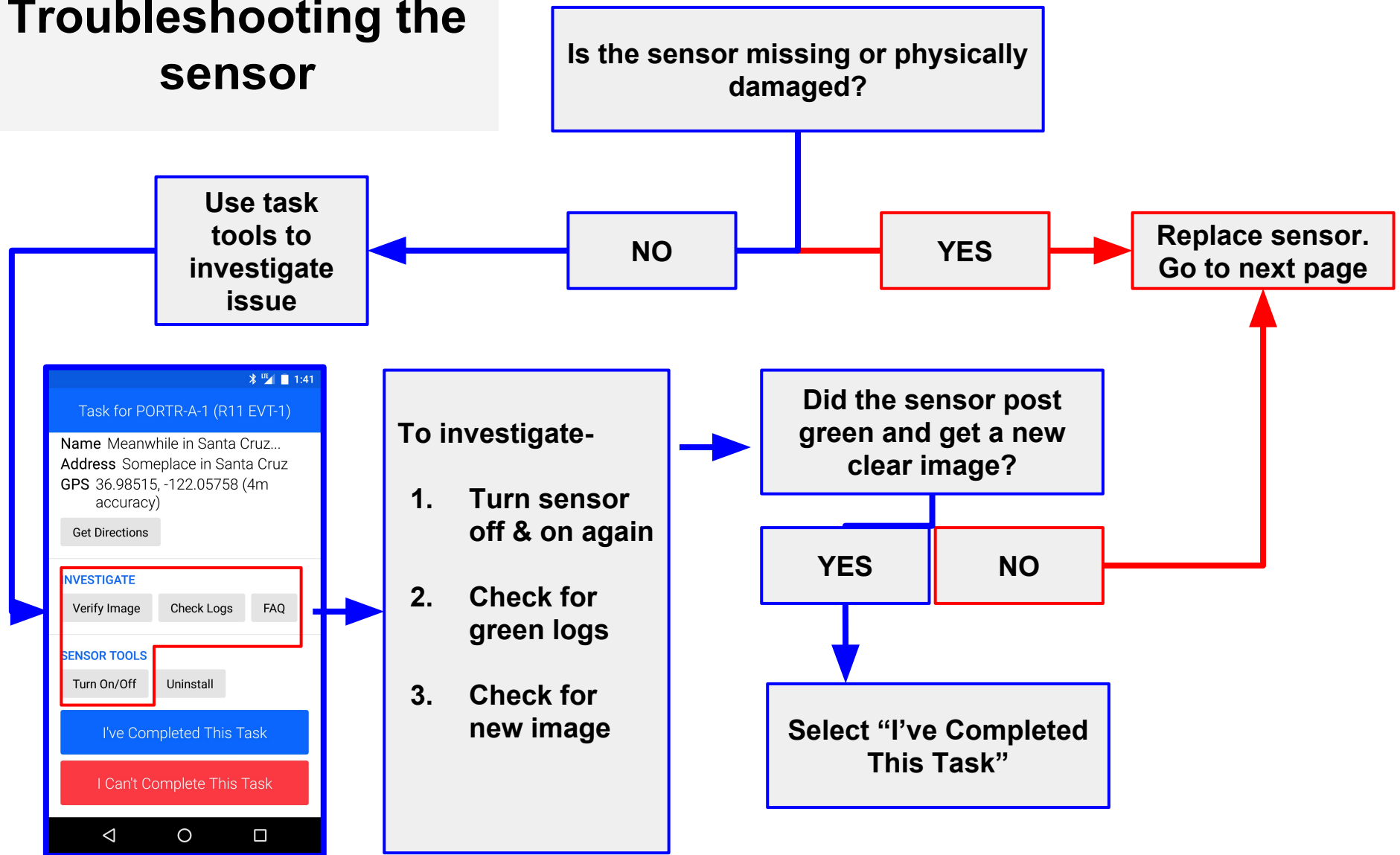
2. Scroll down



Select options, Skip Task



Troubleshooting the sensor

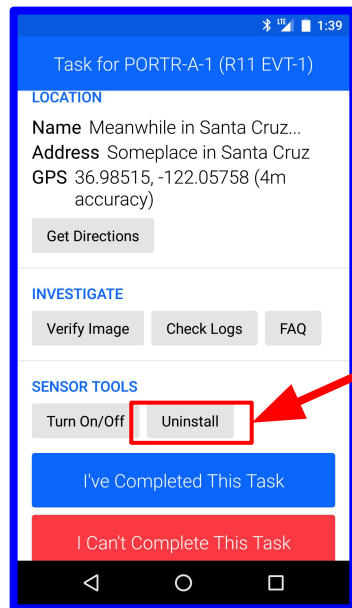


Replacing a sensor

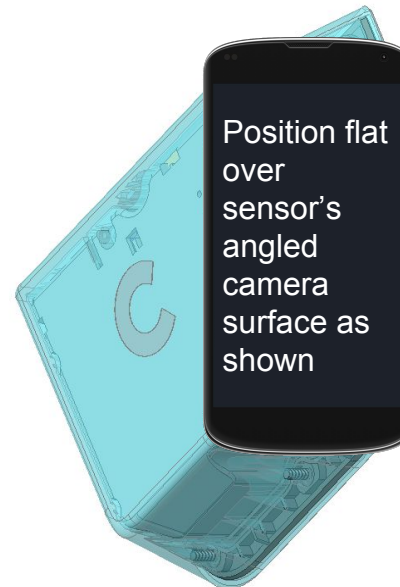
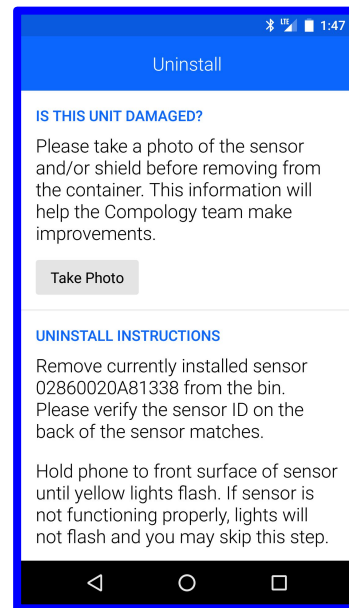
Procedure to replace a sensor

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

1. Select “Uninstall”

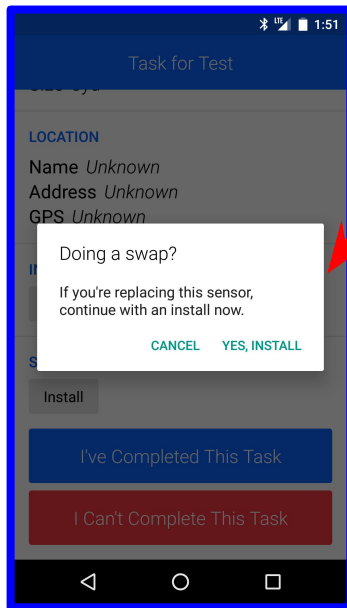


2. Uninstall instructions



3. Complete Uninstall





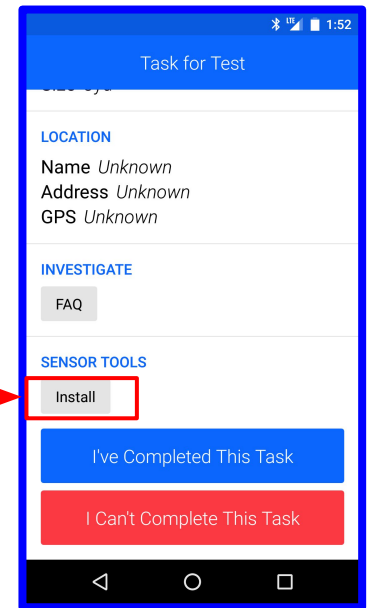
Replacing a Sensor (continued)

Procedure to replace a sensor

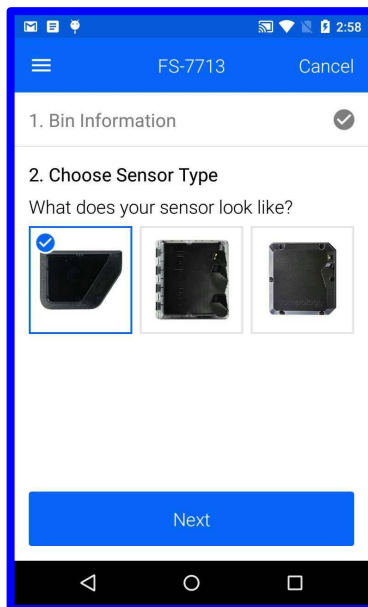
Click “Yes, Install” button on swap window

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

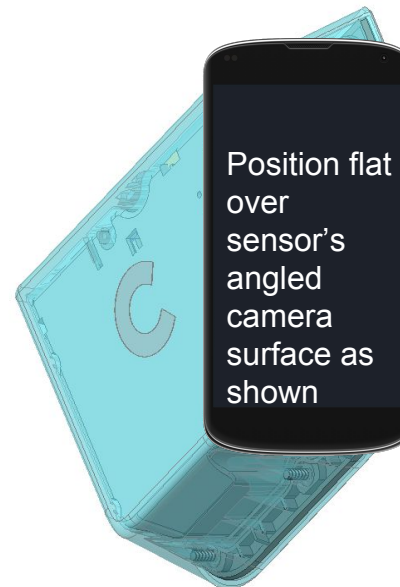
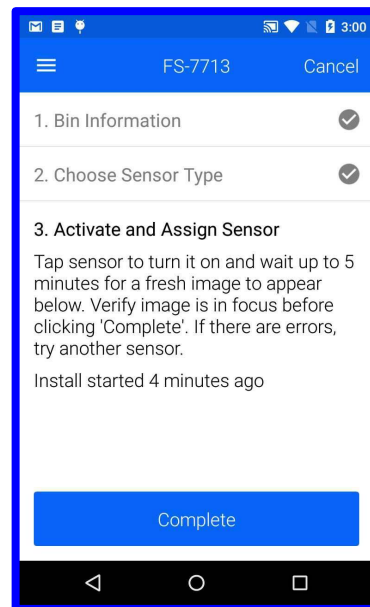
1. Select new sensor type
2. Turn on new sensor
3. If sensor flashes green light, select “complete”



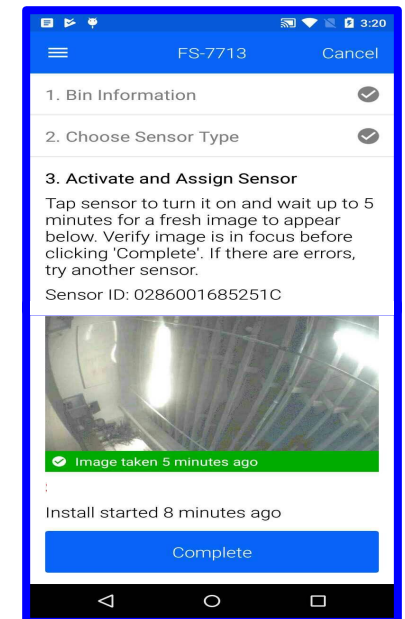
1. Select Sensor Type



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**

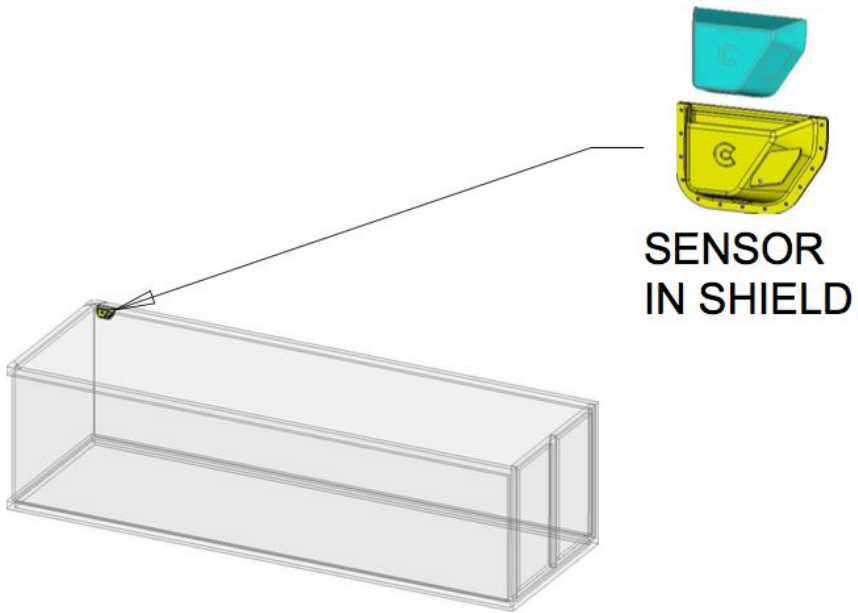
Address:

- **1045 Bryant Street, Suite 101, San Francisco, CA 94103**
- **Fedex Account to charge will be provided by Compology**

Physical Install & Uninstall Overview

Roll-Off Install Instructions





**SENSOR
IN SHIELD**

30YD ROLL OFF BIN

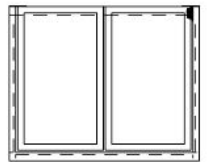
**SENSOR LONG FACE
OPPOSITE DOOR END
TOP BACK CORNER**



TOP VIEW



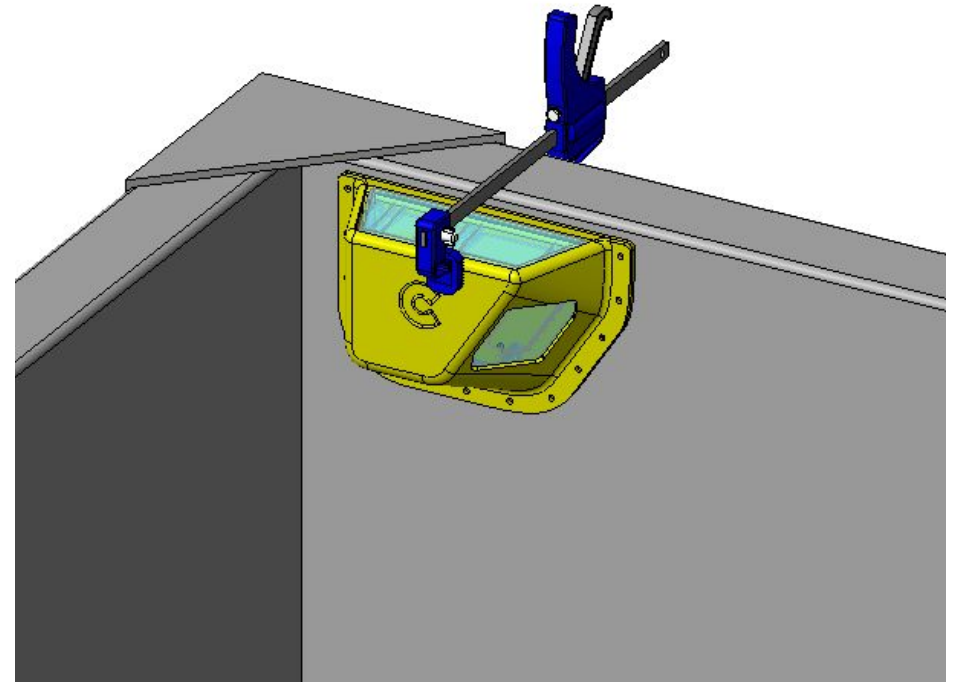
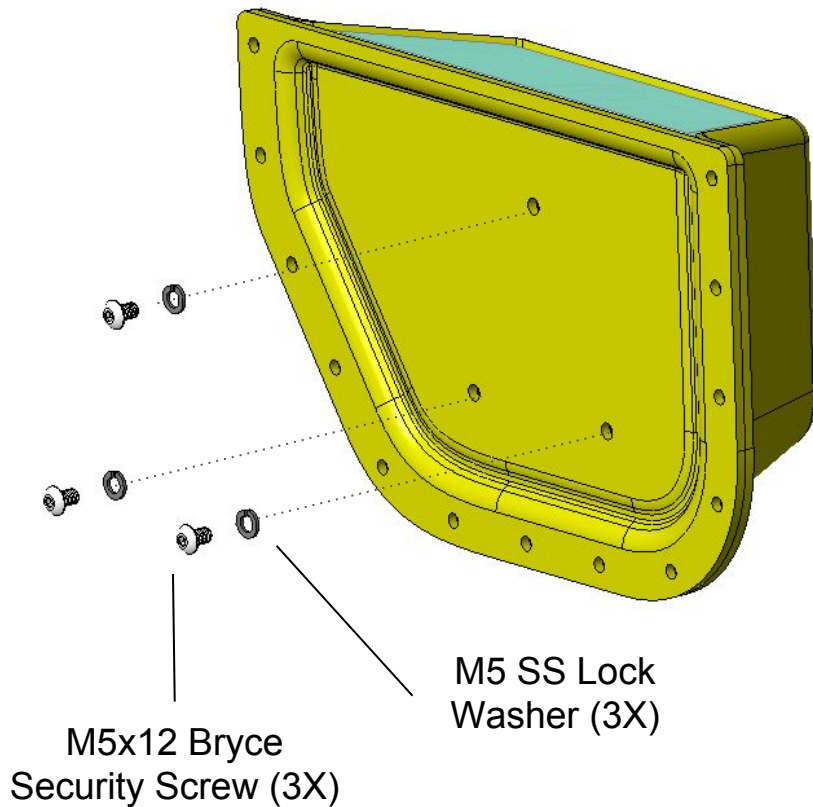
SIDE VIEW



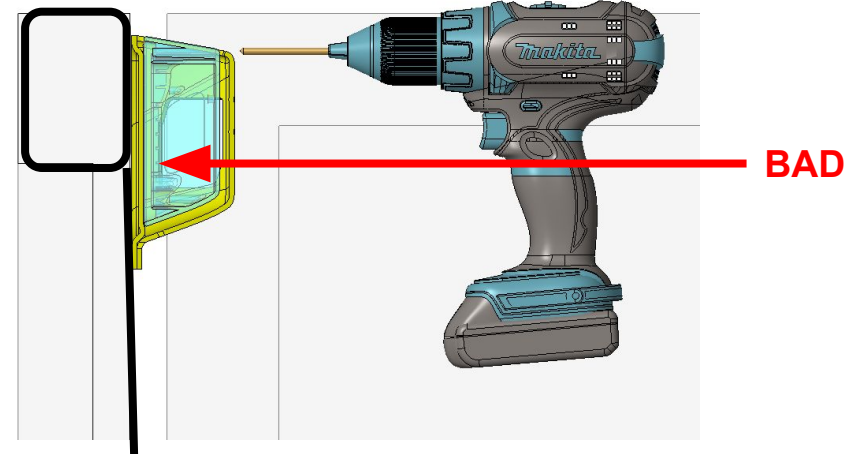
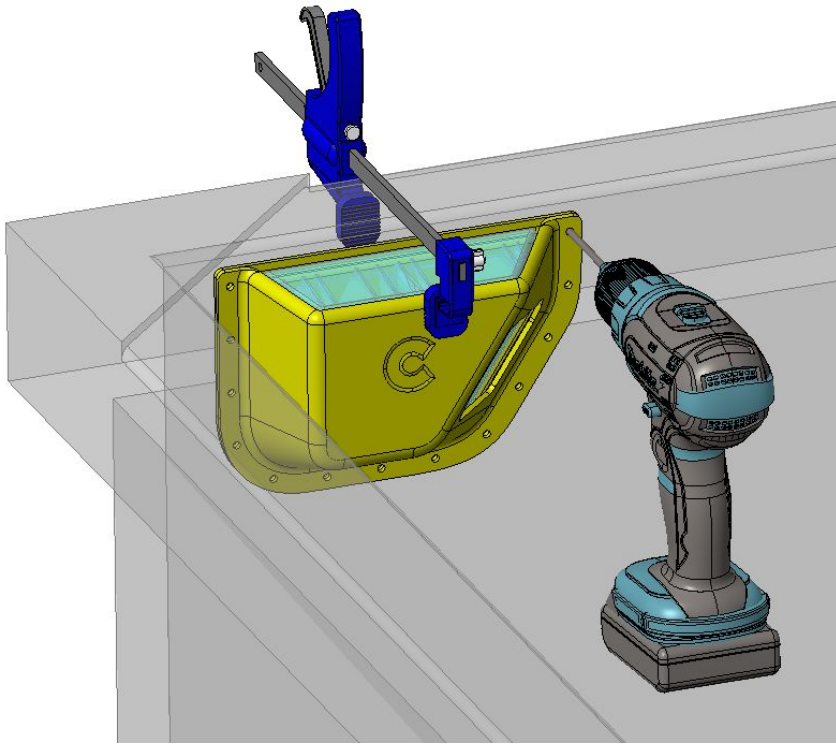
DOOR END

1. COMPLETE 'NEW INSTALL' WITH COMPOLOGY TECHNICIAN APP
2. ATTACH SENSOR TO SHIELD WITH SCREWS
3. PLACE SENSOR IN BIN AND HOLD IN PLACE USING BAR CLAMP

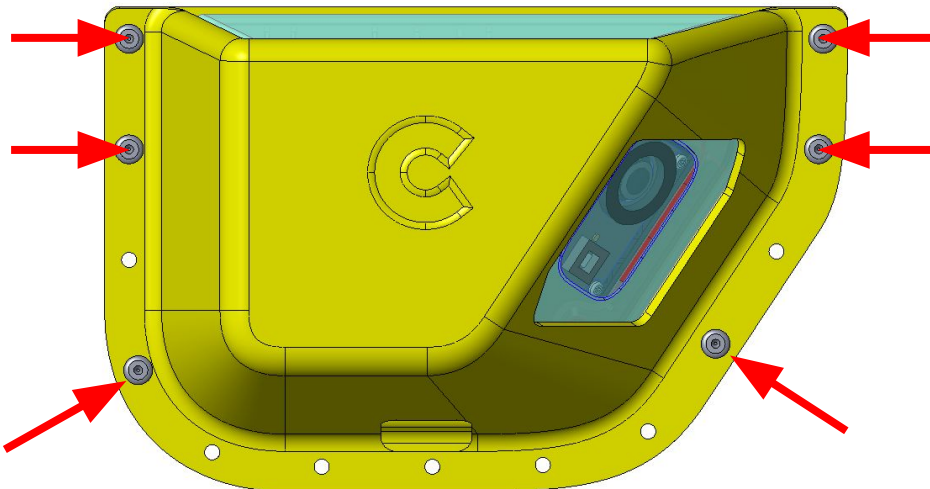
See 'Mounting Locations' document for positioning



4. DRILL 6 HOLES USING THE 3/16" DRILL BIT



IMPORTANT: Do not drill holes at the edge of the box beam. Only drill holes where there is open space behind a single thickness of material



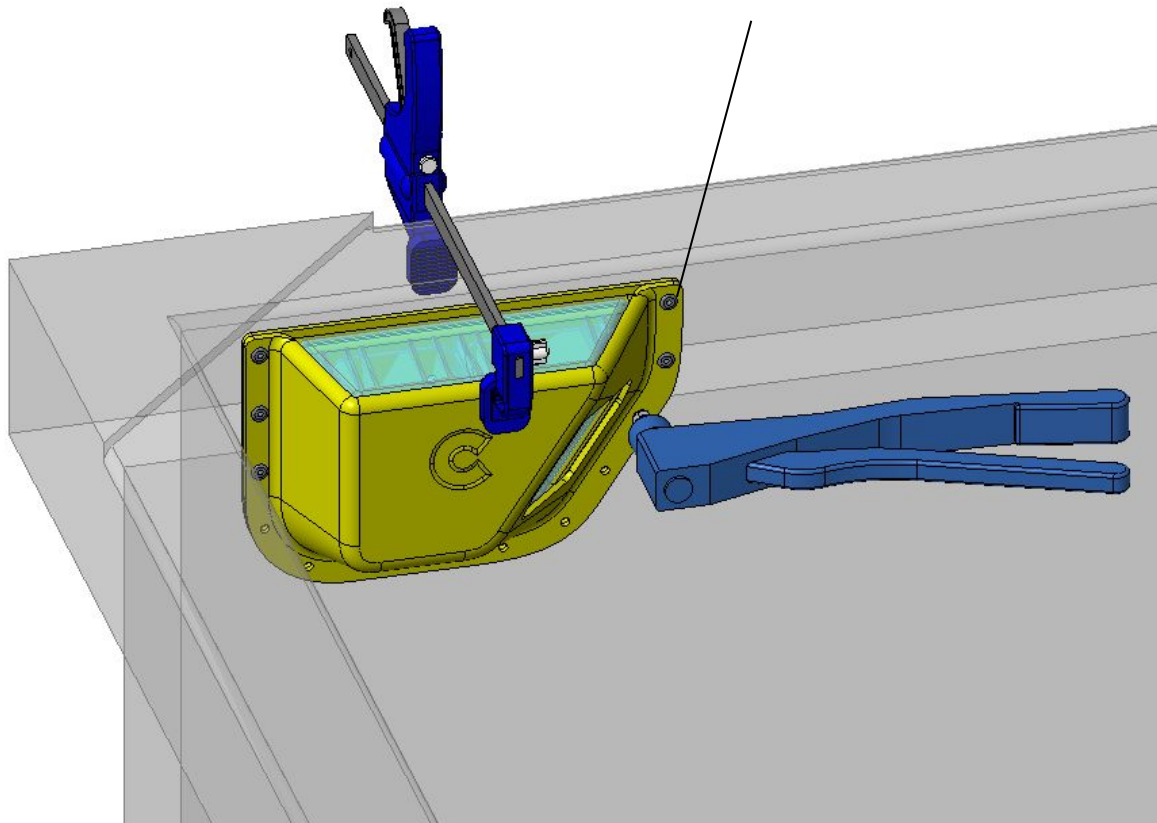
Preferred hole location shown. If these locations are not available shift up or down, but try to balance 3 on each side with more towards the top.

5. INSTALL 6 3/16" RIVETS WITH RIVET GUN

6. ADD STICKER TO OUTSIDE OF BIN

IMPORTANT: If a rivet does not seat properly, or there is a big gap between the shield and the bin at a given rivet location, add more rivets elsewhere.

3/16" Dome Head SS
Rivets (3X)



**DO NOT LOAD
FROM THIS
CORNER**

compology
equipped



WASTEQUIP

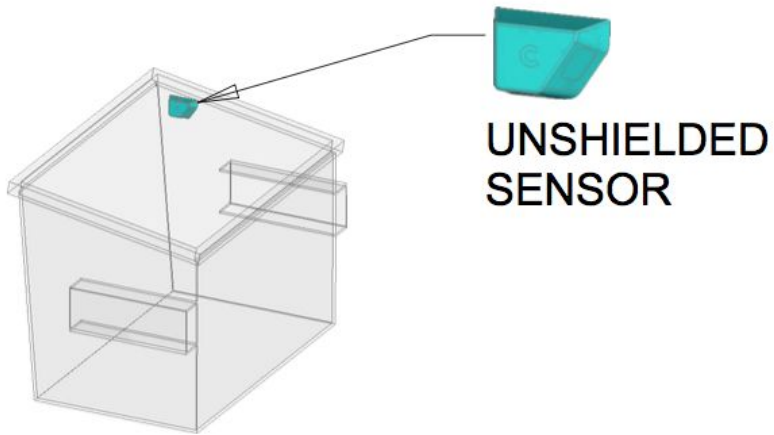
877.468.9278 ▲ www.wastequip.com



Sticker

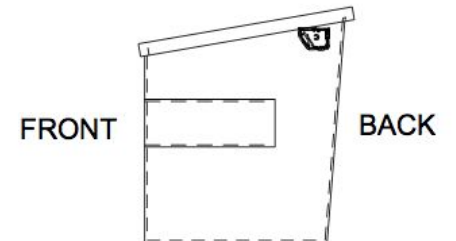
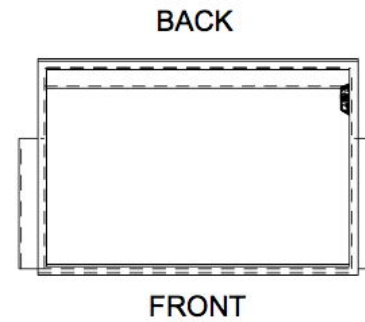
Front-Load Install Instructions





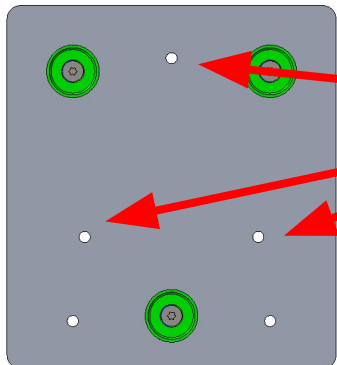
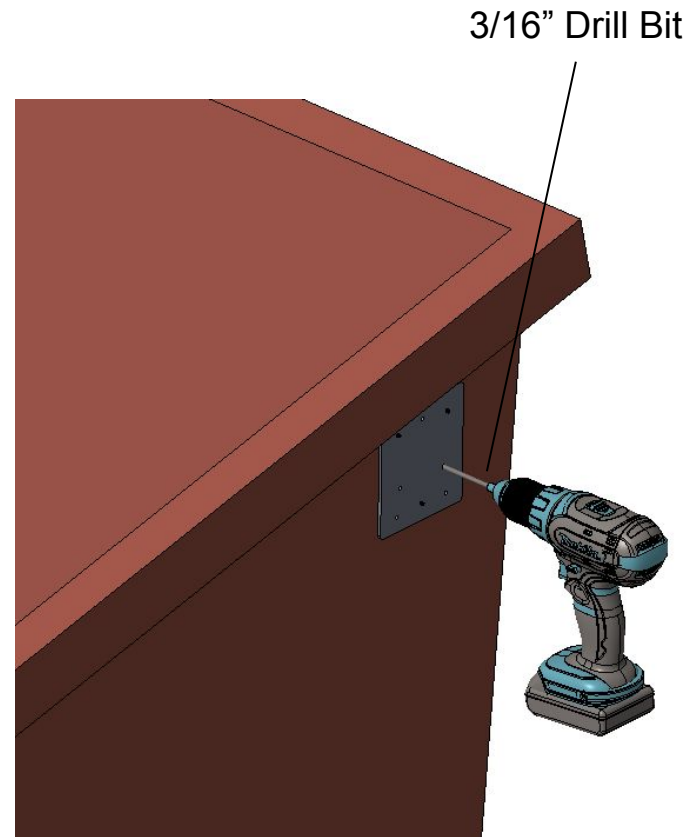
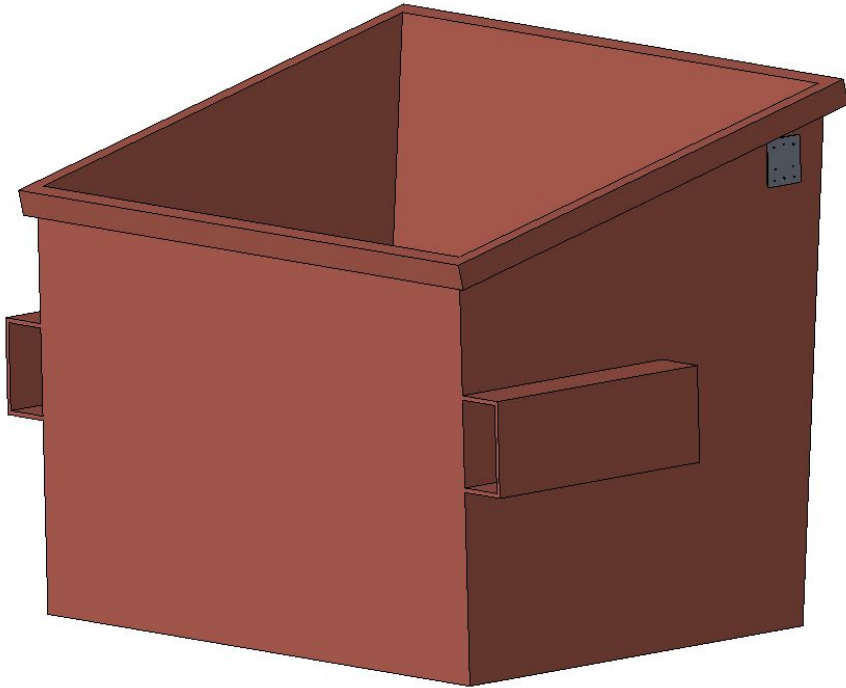
3YD FRONT LOAD BIN
UNSHIELDED SENSOR

SENSOR INSIDE RIGHT FACE
TOP BACK CORNER



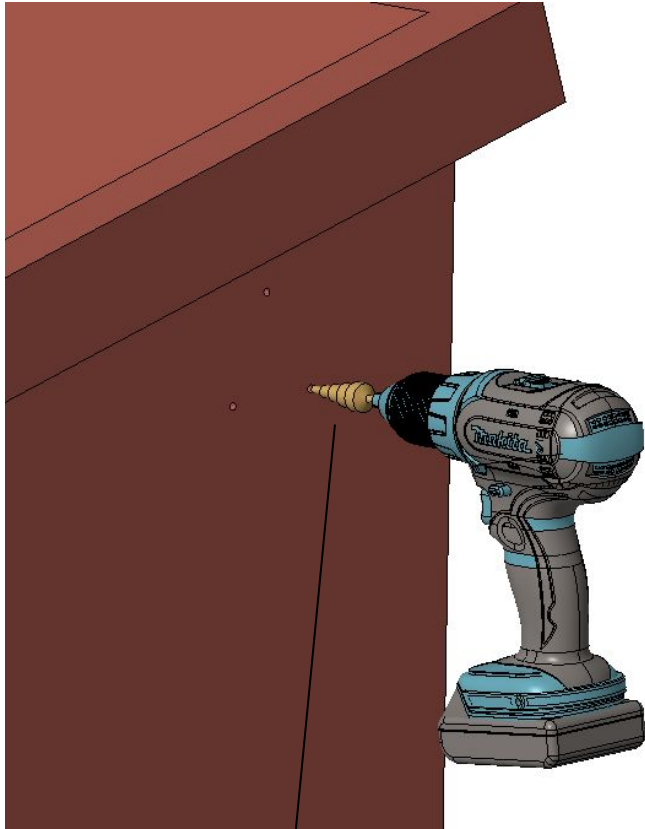
1. COMPLETE 'NEW INSTALL' WITH COMPOLOGY TECHNICIAN APP
2. PLACE MAGNETIC TEMPLATE ONTO BIN
3. DRILL 3 HOLES USING 3/16" DRILL BIT

See 'Mounting Locations' document for positioning

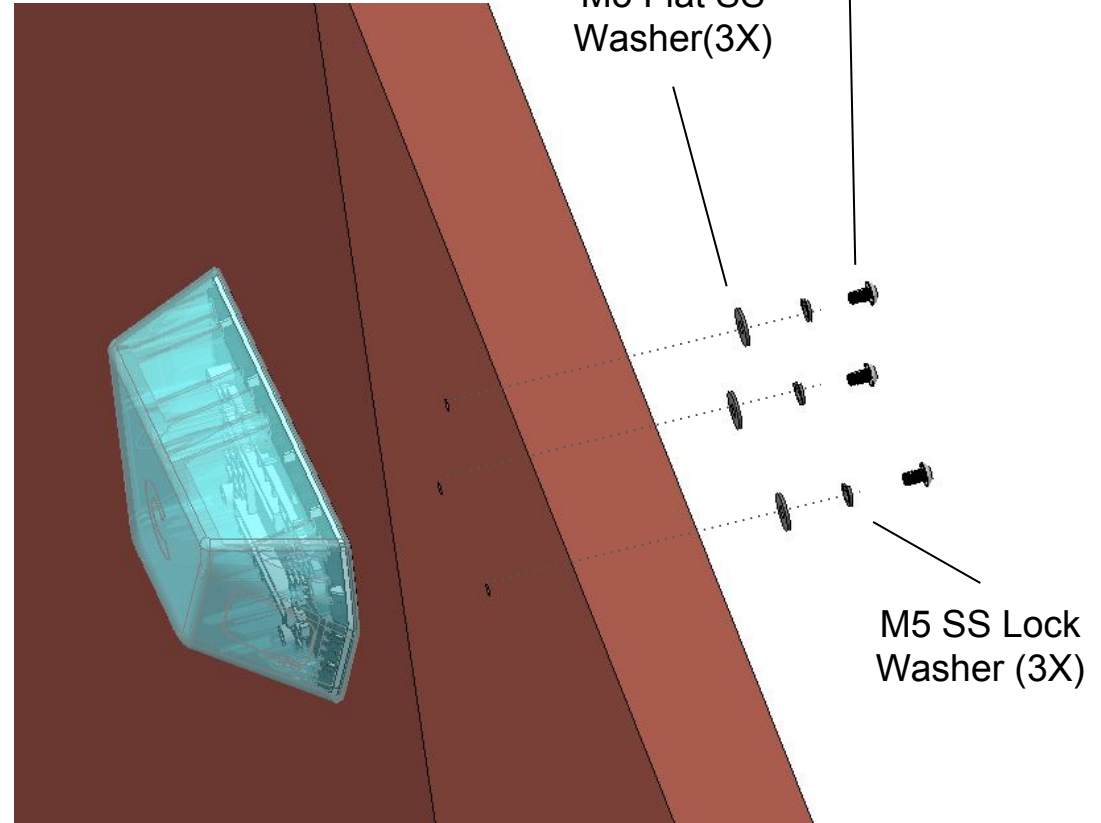


IMPORTANT: Top 3 holes for R12

4. EXPAND HOLES USING STEPPED DRILL BIT
5. MOUNT SENSOR
6. ADD STICKER TO OUTSIDE OF BIN



Neiko 10182A Titanium
Step Drill Bit





CAUTION

DO NOT PLAY IN. ON

CAUTION

CONTAINER MUST BE PLACED

THIS CONTAINER IS FOR
ANY PURPOSE

— LOAD UNIFORMLY —

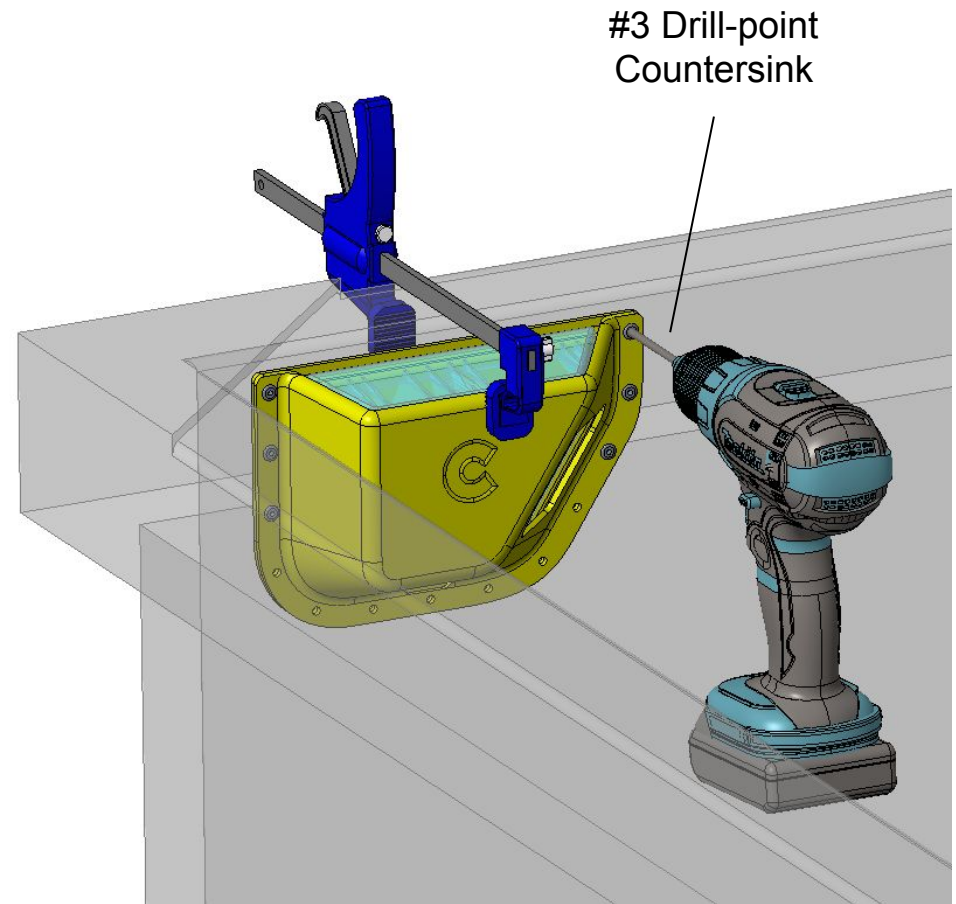
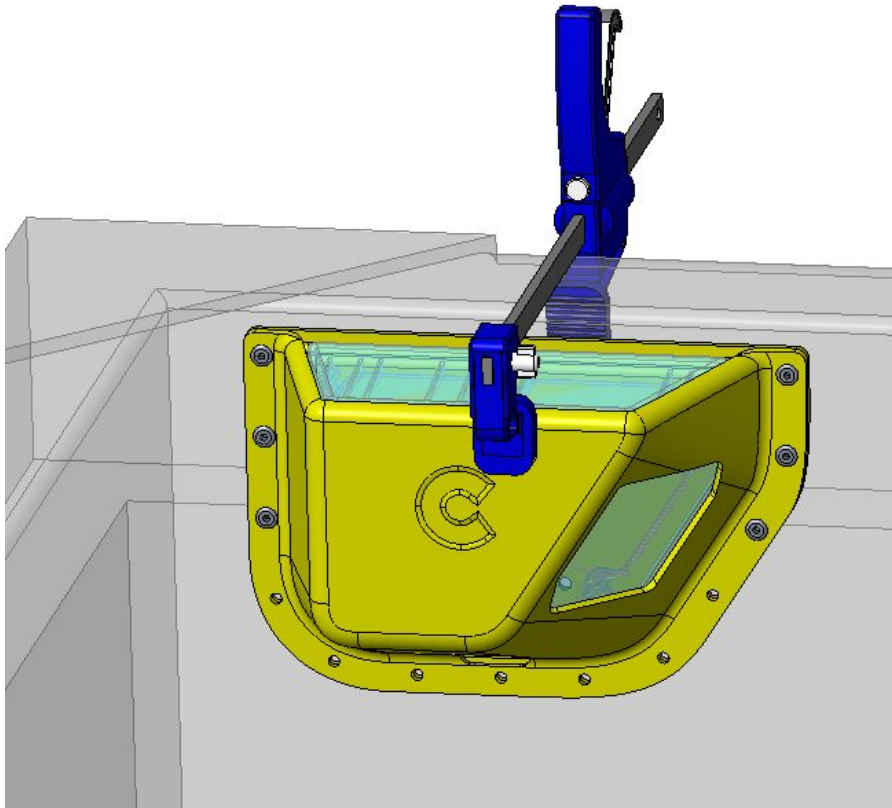
compology
equipped

Sticker

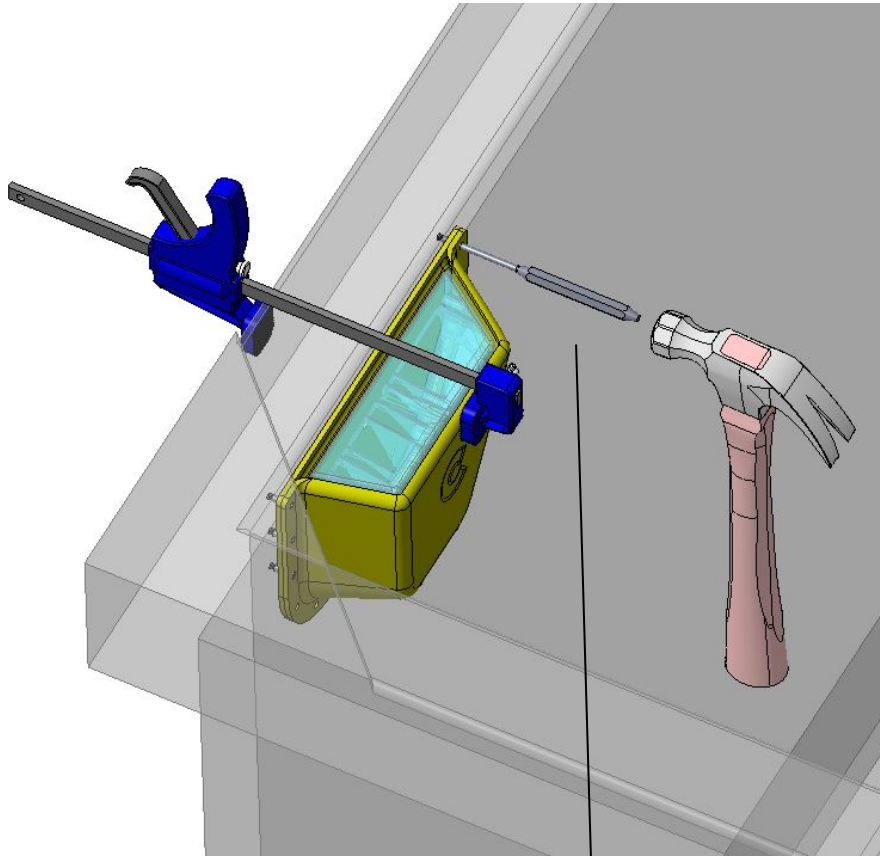
78671

Roll-Off Uninstall Instructions

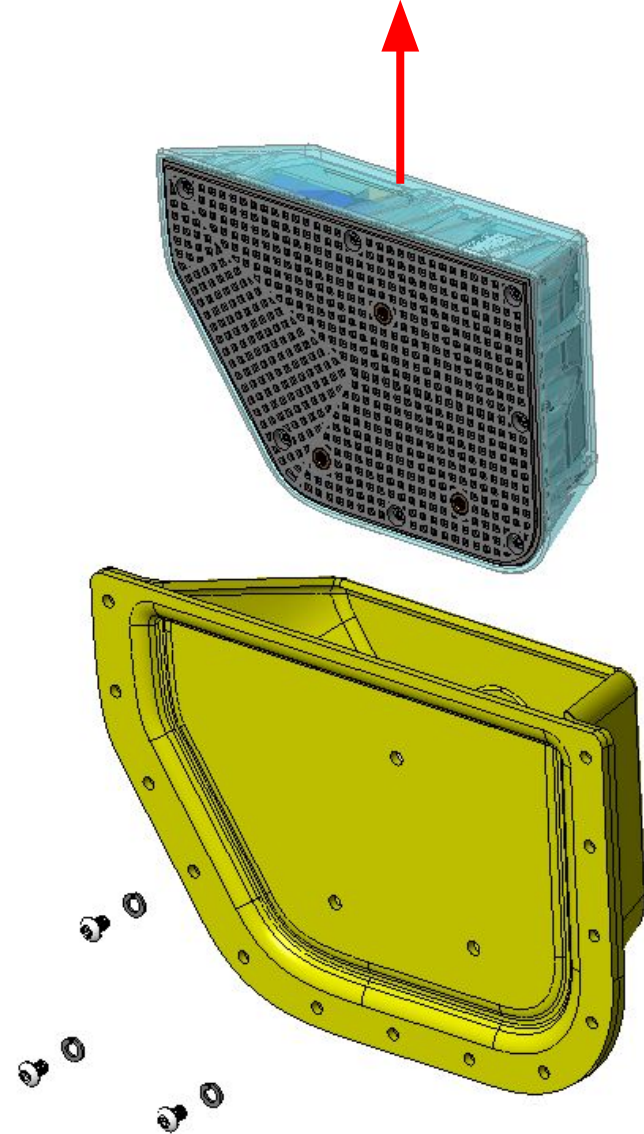
1. TURN OFF SENSOR (VERIFY YELLOW BLINKING LIGHT)
2. HOLD SENSOR IN PLACE USING BAR CLAMP
3. DRILL OFF HEAD FLANGES OF RIVETS USING #3 DRILL-POINT COUNTERSINK



4. USING A HAMMER AND 5/32" PUNCH, PUSH RIVETS THROUGH HOLES
5. REMOVE SCREWS & SENSOR (IF POSSIBLE)

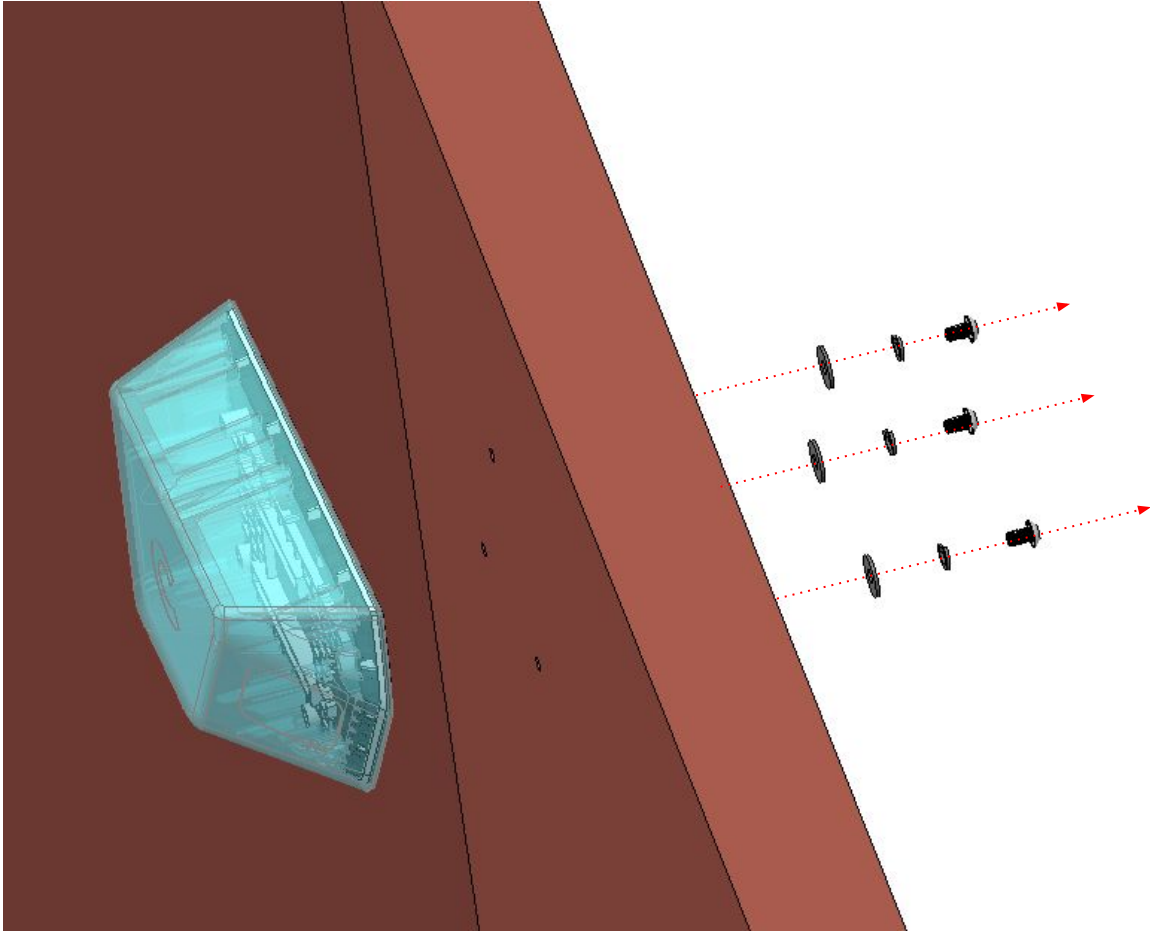


5/32" Punch



Front-Load Uninstall Instructions

1. TURN OFF SENSOR (VERIFY YELLOW BLINKING LIGHT)
2. REMOVE SCREWS & SENSOR



General

Disclaimers

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 (manufacturer name) may void the FCC authorization to operate this equipment.