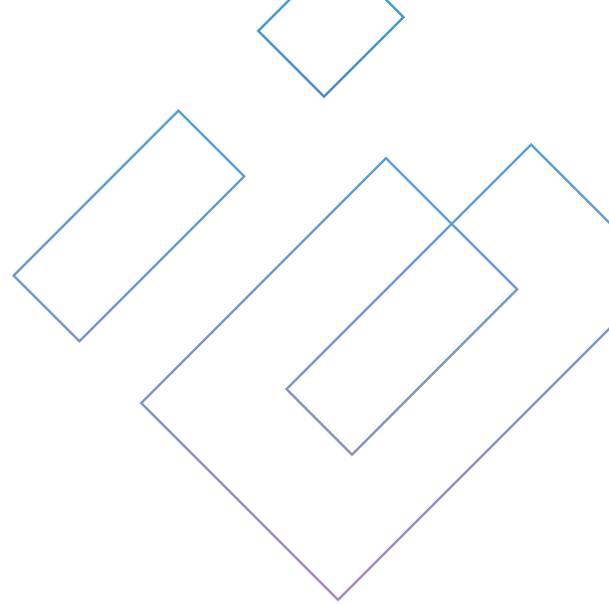


Standard Trailer Demobilization



OVERVIEW

Purpose and Scope

This document provides field service personnel at EPIC iO, partner organizations, or customers the information necessary to break down a standard surveillance trailer (Valiant VTS900A or similar) for removal from operation.

The document defines the approved standard processes and procedures for the demobilization of a EPIC iO standard security trailer. Standard security trailers are commonly referenced by the platform abbreviation “ST,” followed by the build sequence of the trailer (e.g., “ST18”, “ST31”, etc.).



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Responsibilities

Assigned field service personnel conducting mobilization or breakdown operations must ensure all appropriate safety precautions are followed, and all assembly/disassembly steps are performed exactly as prescribed. Additionally, the parties conducting set-up or breakdown operations are solely responsible for protection of the sensors, batteries, solar panels, and other equipment related to the trailer.

Tools and Equipment Required

Personal Protective Equipment (PPE)

At a minimum, the following PPE is required during trailer set-up or breakdown:

- Hard Hat - ANSI/ISEA Z89.1, Type I, Class G certified
- Eye Protection (safety glasses or protective goggles) – ANSI Z87.1 certified
- Foot Protection - Steel-toed ASTM F2413-05 M(F) I/75 C/75 standard
- Hand Protection – Suitable to protect against cuts by sharp objects and minor pinch points
- Reflective Clothing – High visibility reflective vest, or clothing with retroreflective material
- Flame-Resistant Clothing (location- and customer-dependent) – Arc-flash protective with “FR” tech tag clearly visible on the exterior of the garment

Special Tools



Trailer Key



Stabilizer Arm Wrench



Hitch Lock



T30 Torx® Security Bit

STEP 1

DEMOBILIZATION PROCEDURES

Disconnecting Guy Wires from the Trailer

NOTE: Guy wires may be used with trailers in locations where high winds may be encountered.

Guy wires may have been used to further stabilize the mast in high wind conditions. Each trailer comes with three guy wires of different lengths.

A. Disconnect guy wires from the trailer.

- Guy wires are disconnected from their anchor points on the trailer in a specified order, as follows (see Figure 1).
 - Loosen the turnbuckle for the shortest guy wire at the anchor point nearest the driver side or the trailer (point C).
 - Loosen the turnbuckle for the middle length guy wire at the anchor point on the passenger side of the trailer (point B).
 - Loosen the turnbuckle for the longest guy wire at the anchor point closest to the tongue of the trailer (point A).
- Once the turnbuckles are loosened and there is sufficient slack in the guy wires, disconnect the guy wires from their anchor points on the trailer.

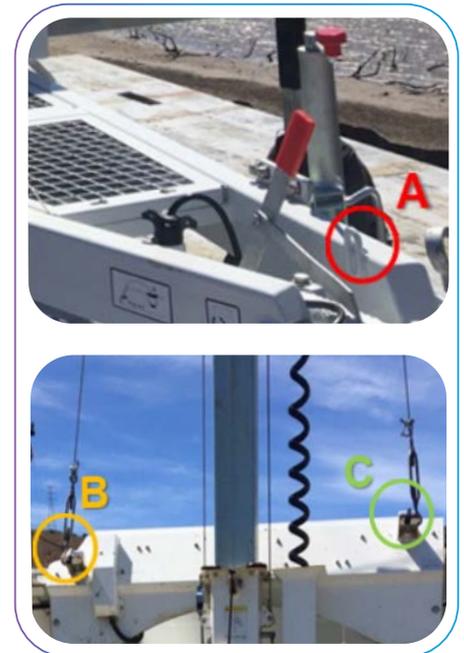


Figure 1: Guy Wire Connection Points – Trailer

STEP 2

Unlocking and Lowering the Camera Mast

! WARNING ! Do not move the trailer once the mast has been raised and secured, regardless of height. Failure to comply may cause the mast to strike overhead objects, including overhead power lines, which may result in equipment damage, personal injury, and/or death.

A. Unlock the mast.

- Remove the mast retaining pin from the retaining slot on the mast body and return the pin to its holder (see Figure 2).



Figure 2. Mast Retaining Pin

B. Lower the mast.

- The orange mast controller is located inside the trailer compartment near the circuit breaker panel (see **Figure 3**). Press the down arrow on the mast controller (see **Figure 4**) until the mast is fully retracted, then re-store the controller in its compartment.
- Observe the exterior cable assembly connected to the mast box (and connected guy wires, if installed) while lowering the mast. MAKE SURE the cable (and guy wires) does not become tangled, stuck or hung up while the mast is in motion.



Figure 3. Mast Controller (Stowed)



Figure 4. Mast Controller

STEP 3

De-energizing the Trailer

CAUTION Circuit breakers MUST be de-actuated in the order specified. Failure to comply may result in damage to the equipment.

NOTE: The circuit breaker panel is located in the trailer electrical compartment (see **Figure 5**). The electrical compartment is located on the side of the trailer with the double doors.

A. De-actuate the circuit breakers.

- De-actuate the circuit breakers in the following order (see **Figure 6**):
 1. MAST
 2. LOAD (& PLC if applicable)
 3. SOLAR
 4. BATTERY

NOTE: DO NOT actuate or de-actuate the circuit breaker labeled LIGHT unless specifically instructed to do so.



Figure 5. Trailer Electrical Compartment

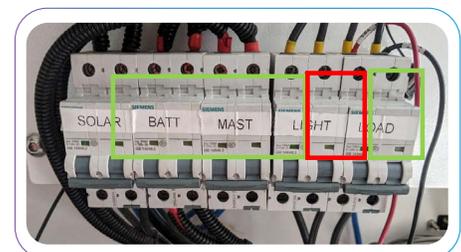


Figure 6. Circuit Breaker Layout

STEP 4

Disconnecting Guy Wires from the Mast

A. Disconnect guy wires from the camera mast.

- Disconnect guy wires from the mast bracket at connection points **A**, **B** and **C** (see **Figure 7**):

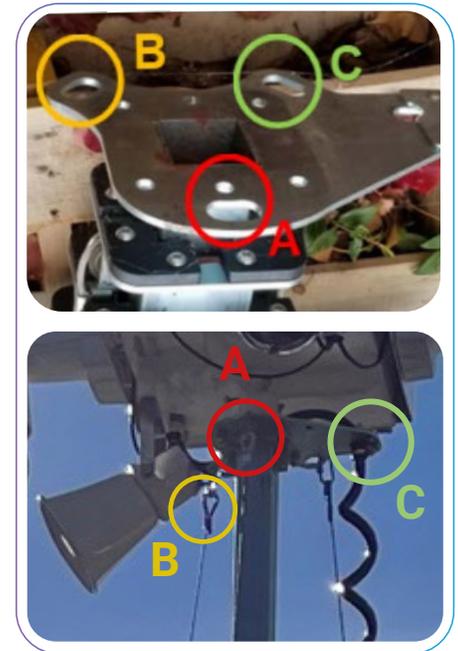


Figure 7. Guy Wire Connection Points – Mast Bracket

STEP 5

Dismounting the Cameras

Standard Trailers are typically outfitted with:

- Three (3) Q6125 PTZ cameras (or similar)
- One (1) C3003-E speaker/horn assembly (or similar)

A. Dismount the cameras from the camera brackets (see **Figure 8**).

- Remove the top of the camera arm using a large Axis Tool, or a screwdriver with T30 Torx security bit (see **Special Tools** on **page 2**).
- Disconnect the black, pig-tail cable to the camera.
- Use the Axis Tool, or a screwdriver with T30 Torx security bit (see **Special Tools** on **page 2**), to loosen the camera retaining bolts.
- Twist the camera body clockwise (when viewed from above) to unlock the camera. Carefully separate the camera head from the camera mounting arm.
- Reattach the top of the camera and tighten the bolt to secure in place.



Figure 8. Camera Dis-mounting

STEP 6

Retracting the Solar Panels

- The solar panels are configured as a 3-panel solar array.

A. If locked, unlock the solar panels.

- A spring-loaded L-shaped locking pin (upper solar panel release pin) locks the solar panels in place when stowed or when fully deployed (see **Figure 9**).
 - Pull the release pin away from the trailer and rotate the handle in either direction to unlock.
 - Allow the handle to slowly retract and engage the receiver detent (see **Figure 10**). Leave the release pin in the unlocked position until the solar panels are retracted.
 - A blue, plastic coated lever pin (lower solar panel release pin) located where the lower end of the solar panels attach to the trailer releases the solar panels to slide to the retracted positions (see **Figure 11**).
 - Push the release pin downwards to allow the solar panel to slide into position.

B. Slide the solar panels to the retracted positions.

! WARNING ! Exercise care when RETRACTING solar panels to avoid catching fingers between panels and structural components. Failure to comply may result in PERSONAL injury.

CAUTION Aerosol white lithium grease is recommended when lubricating solar panel tracks. Oil-based lubricants may promote contamination by airborne dirt or debris and result in degraded bearing performance.

NOTE: When retracting the solar panels, the middle panel remains stationary, the left panel slides to the right under the center panel, then the right panel slides left to the bottom of the stack.

- Lubricate the solar panel tracks with aerosol lithium grease to allow panels to slide easily on the tracks.
- Carefully slide the left and right solar panels to their fully retracted positions.
- Pull the upper solar panel release pin out of the receiver detent (see **Figure 10**) and rotate the handle 180 degrees in either direction to lock the solar panels in the retracted position detent (see **Figure 9**).



Figure 9. Upper Solar Panel Release Pin – Locked Position



Figure 10. Upper Solar Panel Release Pin – Unlocked Position



Figure 11. Lower Solar Panel Release Pin

STEP 7

Preparing the Trailer for Transport

A. Raise the stabilizer legs.

- Use the stabilizer arm wrench (stored inside the trailer) (see **Special Tools** on **page 2**) to raise each of the four stabilizer legs (see **Figure 12**):

NOTE: An electric drill with a 17mm socket can be used in place of the stabilizer arm wrench.

- Rotate the wrench counterclockwise to raise the leg clockwise to lower the leg, and.
- **MAKE SURE** all stabilizer legs are fully raised.

B. Retract the stabilizer legs.

- Remove the yellow release pin at each of the four stabilizer legs.
 - Slide each leg fully into the trailer (see **Figure 13**).
 - Reinsert the release pin at each stabilizer leg once the legs are fully retracted (**Figure 14**).

C. Remove the trailer lock.

- Remove the lock box from the trailer frame **using code 6713**.
- Remove the trailer key from the lock box
- Remove the trailer lock from the trailer hitch

D. Connect the trailer to the tow vehicle.

- Move the tow vehicle into position and connect the trailer to the tow vehicle



Figure 12. Stabilizer Arm Wrench

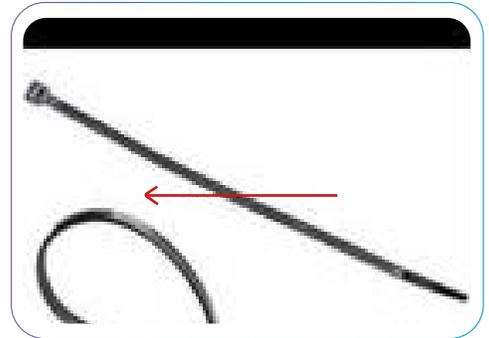


Figure 13. Retracting the Stabilizer Legs



Figure 14. Release Pin

E. Stow the swivel jack.

- Use the rotating handle at the top of the swivel jack (**Figure 15**) to raise the jack leg until the wheel is fully retracted.
- Pull the grip handle on the swivel jack and rotate the jack leg until the wheel is in the upward position.

CAUTION BE SURE to connect all trailer electrical and safety devices (chains, break away cable, trailer wire connector) after connecting the trailer to the tow vehicle. Failure to comply may result in damage to the trailer, the tow vehicle, or associated equipment.

F. Prepare the trailer for towing.

- Release the parking brake (**see Figure 16**).
 - Push the red parking brake lever (located near the trailer hitch) to a position parallel to the trailer to release the parking brake.
- Remove wheel chocks from the front and back or both wheels (**see Figure 17**) and stow in the holders on the front and reach of each wheel fender.
- Connect all electrical and safety connections to the tow vehicle.
- Confirm all trailer running, directional, brake and backing lights function properly when actuated by the tow vehicle.



Figure 15. Swivel Jack



Figure 16. Parking Brake Lever



Figure 17. Tire Chocks

External References

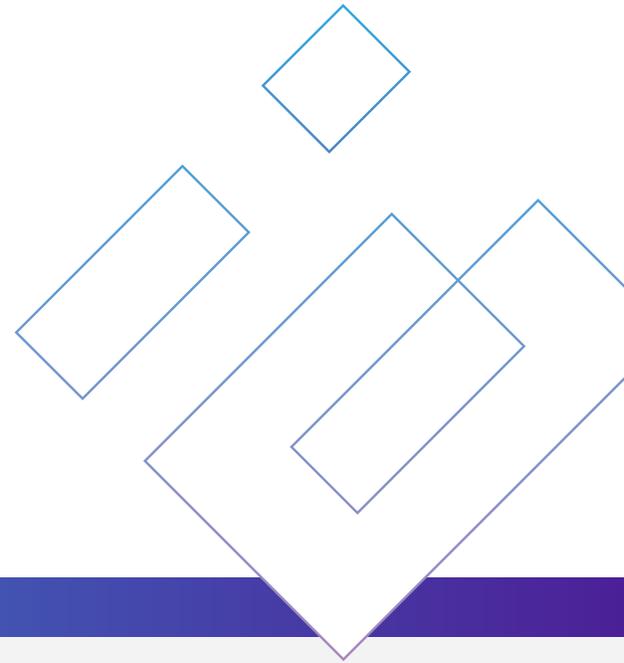
Cameras and Equipment Links

[Axis Q6125-LE Network Camera Installation Guide](#)

[Axis Q6135-LE Network Camera Installation Guide](#)

[Axis C3003-E Network Horn Speaker Installation Guide](#)

[Axis C1310-E Network Horn Speaker Installation Guide](#)



7 simple steps to demobilizing your Standard Trailer.

For additional questions please contact our customer support team at support@epicio.com. We're happy to help!

Learn more today:  [epicio.com](https://www.epicio.com)

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