

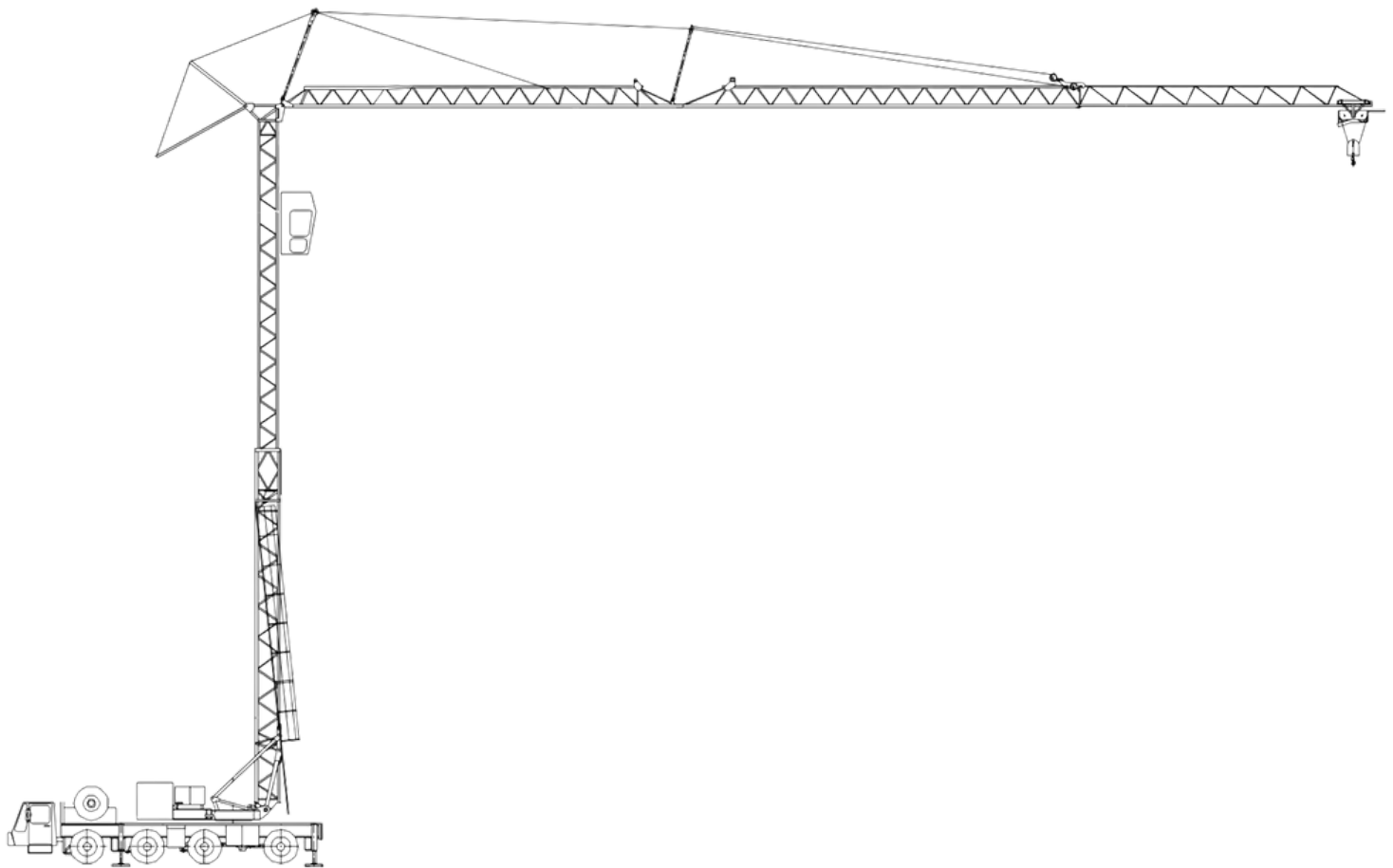


# BCS CRANECAMERA

**ELEVATING  
SAFETY  
TOGETHER**

**MOBILE TOWERCRANE CAMERASYSTEM | VH-4010 & VH-4015**

## **TROUBLESHOOTING MANUAL**




### **For direct support:**


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**COMPONENT LIST | VH-4010 & VH-4015**

- Tilt-Camera (A)
- Video-sender (B) (trolley)
- Video-receiver (C) (cabin)
- Monitor (D)
- Zoompedal (E)
- Batterypack with charge input (F)



**Issue:**

After pressing "Zoom tele" on the Zoompedal, the video-image on the Monitor stays blue.

**Step 1:**

- Move trolley to charge position in the jib.
- Take out the "Chargedock" connector from the Batterypack (F).
- Measure "pin Earth" and "Pin 1" on the connector using a multimeter. There must be 24V DC on the pins of the connector.

**If there is NO 24V on the connector's pins while in charge modus; check charge sleeves and charge wheels. Check cable connections and fuses for 24V power supply on jib charge sleeves.**

- If 24V is OK on "Chargedock" connector end while in charge modus:
  - Check if Batterypack is charging in charge position (green LED on bottom blinking (charging) or ON (charged)).
  - Check "Transceiver" output on Batterypack (must be 12V or above, when not in charge sleeves on "pin Earth" and "pin 1").

**If charge LED on Batterypack does not start blinking in charge modus:  
Replace Batterypack.**

**If voltage on "Transceiver" output on Batterypack is too low (<12V):  
Replace Batterypack.**

If the "Transceiver" output on the Batterypack is 12-13V when not in charge modus, go to next step.

**Step 2:**

- Check wireless Zoompedal (E) connection; look inside the Monitor (D) from above, through the ventilation roster on the upper backside. There is 1 blue LED permanent ON. Press "Zoom tele" multiple times, a second blue LED must start blinking (5 times when pressed, 5 times when released) next to that LED.

**If YES: go to step 3.**

**If NO: Replace batteries in Zoompedal (4x AAA Alkaline) by removing the backplate. If no success after new batteries; replace Zoompedal.**

Now "Learn" (see manual) the new Zoompedal to the Monitor and check again.

If no success after replacing Zoompedal, replace Monitor and "Learn" the Zoompedal to the new Monitor.

**Step 3:**

- Dismantle the Camera (A) from the trolley.
- Turn off Monitor (D) power (disconnect power connector on backside of Monitor, or turn off cabin power supply).
- Disconnect the cable in the Receiver (C) on top of the cabin.
- Put the disconnected cable connector in the Camera.
- Turn on the cabin power and/or connect the power connector in the Monitor. Does video image work? Does the Camera Zoom/Tilt work?

**If the video image on the Monitor is OK and Camera Zoom/Tilt is OK; replace Transmitter and Receiver (is always a set of 2!), also replace the 1.5mtr. cable from Transmitter to Camera input (could be faulty too) if possible.**

**If Monitor video image stays blue; replace Camera.**

**Issue:**

The Camera (A) zoom is working, but the tilt front and rear functions are NOT working.

**Steps:**

- Transport the trolley to the end of the jib and lower the jib to the ground.
- When the Camera is ON, turn the Camera left or right by hand. The Camera must automatically turn back to it's original position.

**If the Camera does NOT turn back to it's original position; replace Camera.**

**If the Camera does turn back to it's original position; replace Monitor and Zoompedal (issue could be in Monitor and/or Zoompedal!).**

**Issue:**

The video image has a lot of interference. Zoom and Tilt functions ARE working.

**Steps:**

- Make sure the Transmitter (B) and Receiver(C) are in line of sight as good as possible. The video signal sent from the Transmitter is a straight signal.
- Adjust the angle of the Transmitter in the trolley up or down so the "BCS" logo on the front is as straight as possible in line with the "BCS" logo on the Receiver on top of the cabin (also adjust the angle of this one).
- When working with different positions of the cabin in the tower (50% or 100% up), try to find a average way of adjustment of the Transmitter and Receiver.

**If the video image is not better after adjustment; replace Transmitter and Receiver.**

In all cases we advice to contact the BCS support hotline via Whatsapp, Phone or Email.

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