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Realignment of Thomson Ramp Actuators

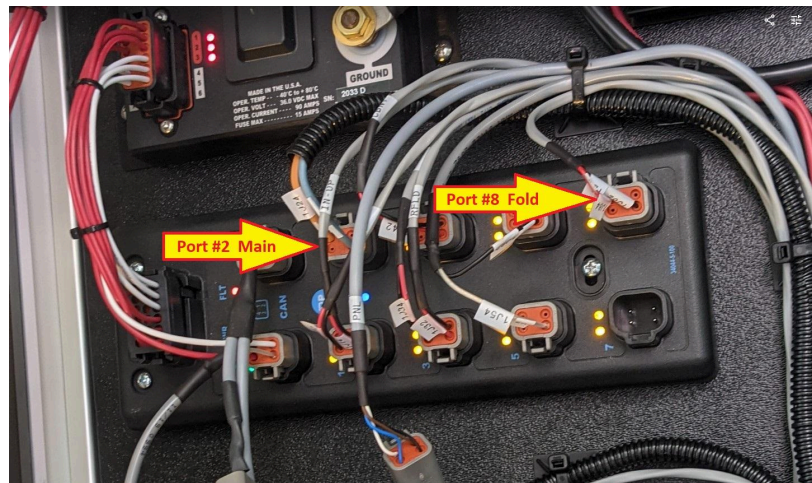
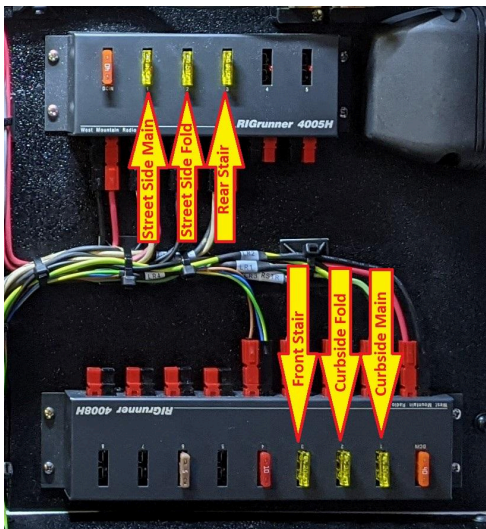
This document describes how to get ramp actuators back into realignment and return to normal operations. Misalignment can occur when one side of the ramp meets resistance, typically during deployment, and stops moving while the unrestricted side continues to move. The restricted actuator will experience a current fault and stop moving causing the ramp section to twist.

Another cause for misalignment of actuators is low battery voltage. This usually results in a Curbside actuator (usually the Fold section) faulting or blowing a fuse. In either case the actuators must be brought back into alignment before resuming normal operations and the battery voltage must be brought back up either by replacing the batteries or plugging into 115VAC shore power.

Realignment of Fold Actuators

The **Curbside Fold** actuator is a slave to the **Streetside Fold** actuator and receives its extend/stop/retract commands from the **Streetside Fold** actuator. To accomplish realignment we must manually reposition only the **Streetside Fold** actuator to match the **Curbside Fold** actuator:

- Remove the **Curbside Fold** actuator fuse #2 from the lower Rigrunner fuse block.



- On the upper Datapanel control block, locate the Fold connector in the Port #8 position. Squeeze the retainer clip and remove the connector from the port. The nearest cable tie may have to be cut to allow sufficient movement of the connector for the next steps.
- Remove the connectors from Port #5 and Port #6 in the same way. You will use these two empty ports to control the **Streetside Fold** actuator.



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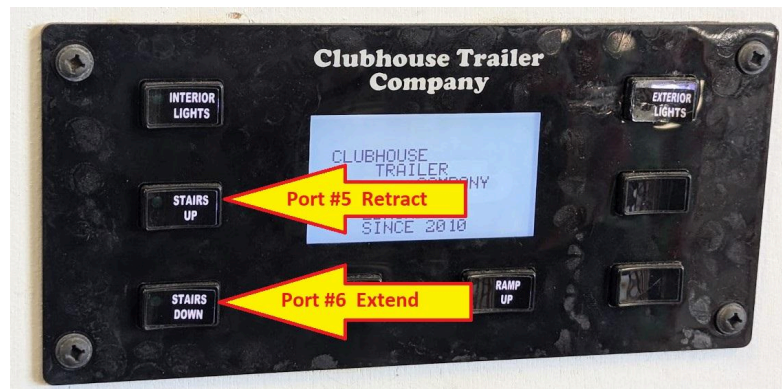
- Inspect the alignment of the two Fold actuators and determine if the **Streetside** Actuator needs to Extend or Retract to become aligned with the **Curbside** actuator.

To Extend the Streetside Fold actuator to align:

- Insert the **Fold** connector into Port #6. The Fold connector is labeled 1J82/1J84



- Using the control panel on the door press the **Stairs Down** button to move the **Streetside Fold** actuator into alignment with the **Curbside Fold** actuator



- Reinsert the fuse #2 to activate the Curbside Fold actuator.
- Now pressing the **Stairs Down** button should **Extend** both actuators (if they are not already fully extended)



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To Retract the Streetside Fold actuator to align:

- Insert the **Fold** connector into Port #5. The Fold connector is labeled 1J82/1J84



- Using the control panel on the door press the **Stairs Up** button to move the **Streetside Fold** actuator into alignment with the **Curbside Fold** actuator



- Reinsert the fuse #2 to activate the Curbside Fold actuator.
- Now pressing the **Stairs Up** button should **Retract** both actuators (if they are not already fully retracted)



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At this point the ramp needs to be manually fully retracted into the trailer in order to reset the actuators and reinitiate the sequencing. To do this manually:

- Reinsert the **Fold** Connector into Port #5
- Using the door mounted control panel you will alternate pressing the **Ramp Up** button and the **Stairs Up** button to “walk” the ramp back into the trailer.
- Once the ramp is fully stored power will have to be cycled on the control system. Do this by pressing the Red button on the **HI-AMP** circuit breaker. This will kill all power to the panel.
- Reconnect power by pushing the yellow lever back up into the breaker housing.



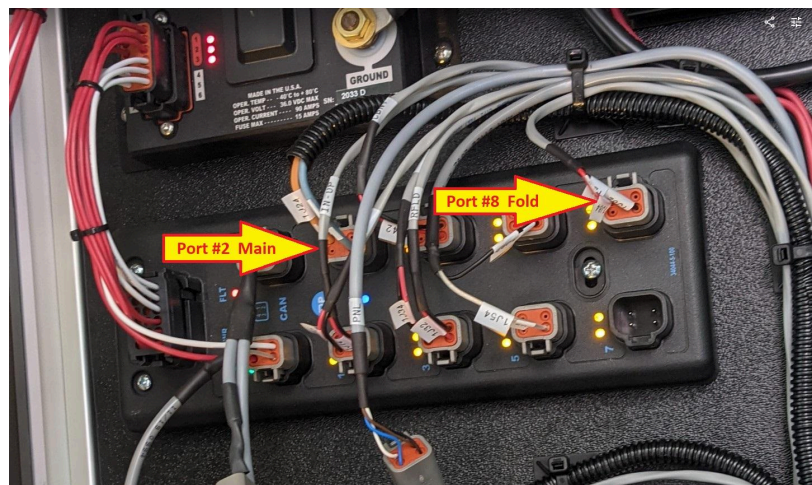
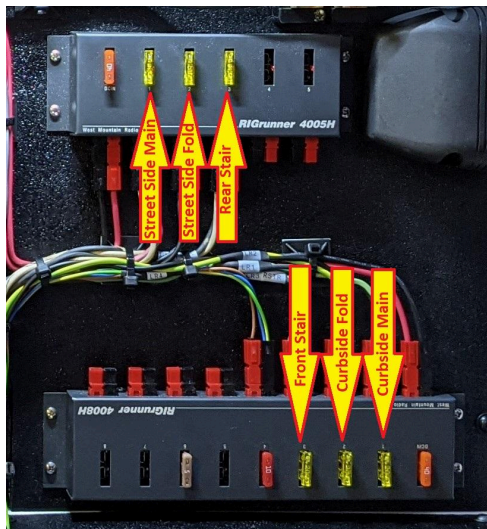
- Reinstall the **Fold** connector into Port #8
- Reinstall the connector 1J54 into Port #5
- Reinstall the connector 1J62 into Port #6
- Using the door mounted control panel, deploy the ramp. It should function normally.



Realignment of Main Actuators

The **Curbside Main** actuator is a slave to the **Streetside Main** actuator and receives its extend/stop/retract commands from the **Streetside Main** actuator. To accomplish realignment we must manually reposition only the **Streetside Main** actuator to match the **Curbside Main** actuator:

- Remove the **Curbside Main** actuator fuse #1 from the lower Rigrunner fuse block.



- The FOLD section needs to be disabled while realigning the Main actuators. On the upper Datapanel control block, locate the Fold connector in the Port #8 position. Squeeze the retainer clip and remove the connector from the port. The nearest cable tie may have to be cut to allow sufficient movement of the connector for the next steps.
- Remove the connectors from Port #5 and Port #6 in the same way. You will use these two empty ports to control the **Streetside Main** actuator.
- Inspect the alignment of the two **Main** actuators and determine if the **Streetside** Actuator needs to Extend or Retract to become aligned with the **Curbside** actuator.

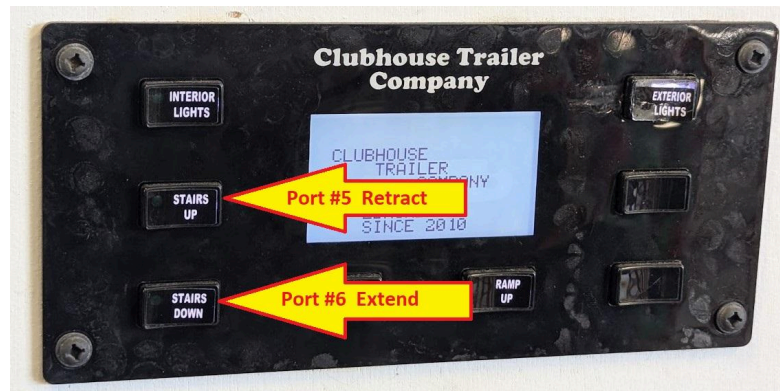
To Extend the Streetside Main actuator to align:

- Insert the **Main** connector into Port #6. The Main connector is labeled 1J22/1J24
- Using the control panel on the door press the **Stairs Down** button to move the **Streetside Fold** actuator into alignment with the **Curbside Fold** actuator



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- Reinsert the fuse #1 to activate the Curbside Main actuator.
- Now pressing the **Stairs Down** button with the Main connector in Port #6 should **Extend** both actuators (if they are not already fully extended)
- Pressing the **Stairs Up** button with the **Main** connector in Port #5 should **Retract** both actuators.

Because the main ramp may be positioned between sequencing limit switches the control will not know its position so the ramp should be lowered to the final deployed position manually. If the Fold actuators are not fully extended they too will need to be extended using the manual method described in the previous section.