

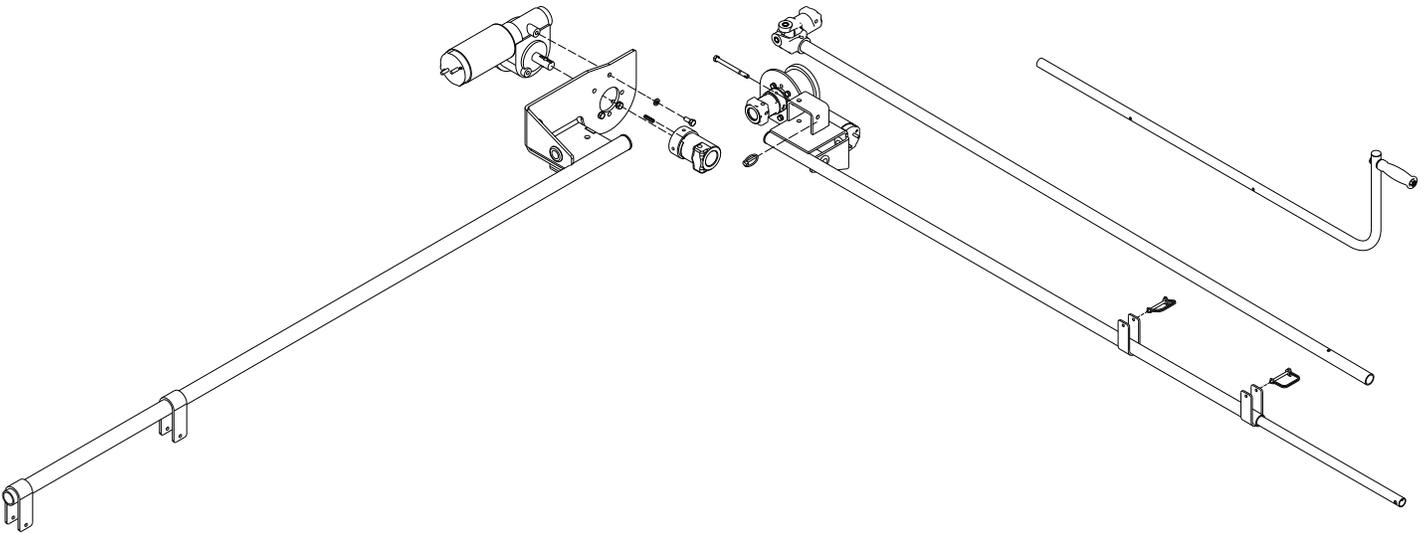
## **Brandt 1122 / 1522 / 2022 Electric Instructions**

### **Step 1 – Assemble Electric Arm**

Secure the motor to the top aluminum electric arm with (3) 5/16"x3/4" hex bolts and lock washers.

Slide the motor coupler onto the shaft along with the key. Position it so the coupler bore is flush with the end of the shaft on the inside. Apply Loctite to the set screws and tight to secure to the motor shaft.

Secure the backup manual crank shaft and handle to the top aluminum electric arm. Place the U-Joint in the holder on the bracket, secure with a 3/8" x 4" pin and lynch pin. Rotate the crank shaft down so it sits in the (2) sets of tabs. Place the crank handle onto and pin into place with (2) 1/4" wire lock pins.



### **Step 2 - Installing Arm onto the Cart**

Slide the motor coupler onto the spline. Secure together with a 3/8" x 2-1/2" quick pin.

Slide the bottom electric arm into the top arm.

Rotate the arm so you can pin the bottom electric arm into the crank handle retainer with a 3/8" x 2-1/2" quick pin. You may need to unroll the tarp to allow you to rotate the motor.

### **Step 3 - Wiring for Rocker Switch Electric**

Run #6 double strand wire from the back of the tractor along the hitch and frame to the rear of the cart to the pivot point of the electric arm. Near the pivot point a set of the quick disconnects will be installed in line for easy removal. From the quick disconnects run wire up along the arm through the grommets to the motor. Leave slack at the pivot point to allow the arm to rotate freely. Secure the wire to the top arm with cable ties.

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At the front of the cart ensure to leave enough slack to allow for turning and to reach the back of the tractor. Solder one of the quick disconnects terminals to each end of the wire. Apply heat shrink over the joint and once cooled slide them into the quick disconnect housing. The polarity does not matter.

At the back of the cart, cut the #6 wire where you want to have the second set of quick disconnects. Again solder a quick disconnect terminal to each of the wire ends. Place heat shrink over the joints and once cool, place in the quick disconnect holders. Connect the 2 quick disconnects together.

At the motor cut the wire to the correct length and crimp #6 - ¼" insulated ring terminal to each end of the wire and connect to the motor posts.

Place the motor cover on and secure with the 2 screws provided.

Mount the rocker switch in the cab of the tractor.

On the tractor mount the reverse dc contactor near the battery.

Run #6 wire from the battery terminals to the reverse dc contactor with the 50 amp auto reset circuit breaker in line with the positive wire. Secure the circuit breaker to the tractor secure to the wire.

Run #6 double strand wire from the reverse dc contactor to the rear of the tractor. At the reverse dc contactor crimp on #6 - ¼" ring terminals. Slide 2 black rubber boots over the wire and connect them to the MTR 1 and MTR 2 posts. At the back of the tractor solder a quick disconnect terminal to each wire. Place heat shrink over the joint and place in the holder. Connect it to the quick disconnect on the grain cart.

Run 14-3 wire from the rocker switch in the cab to the reverse dc contactor.

At the rocker switch crimp a 14-16Ga female disconnect on to each wire. Connect the white and green to the outside posts while the black to the middle post. You may need to switch the white and green later if the direction of the tarp is opposite of the switch.

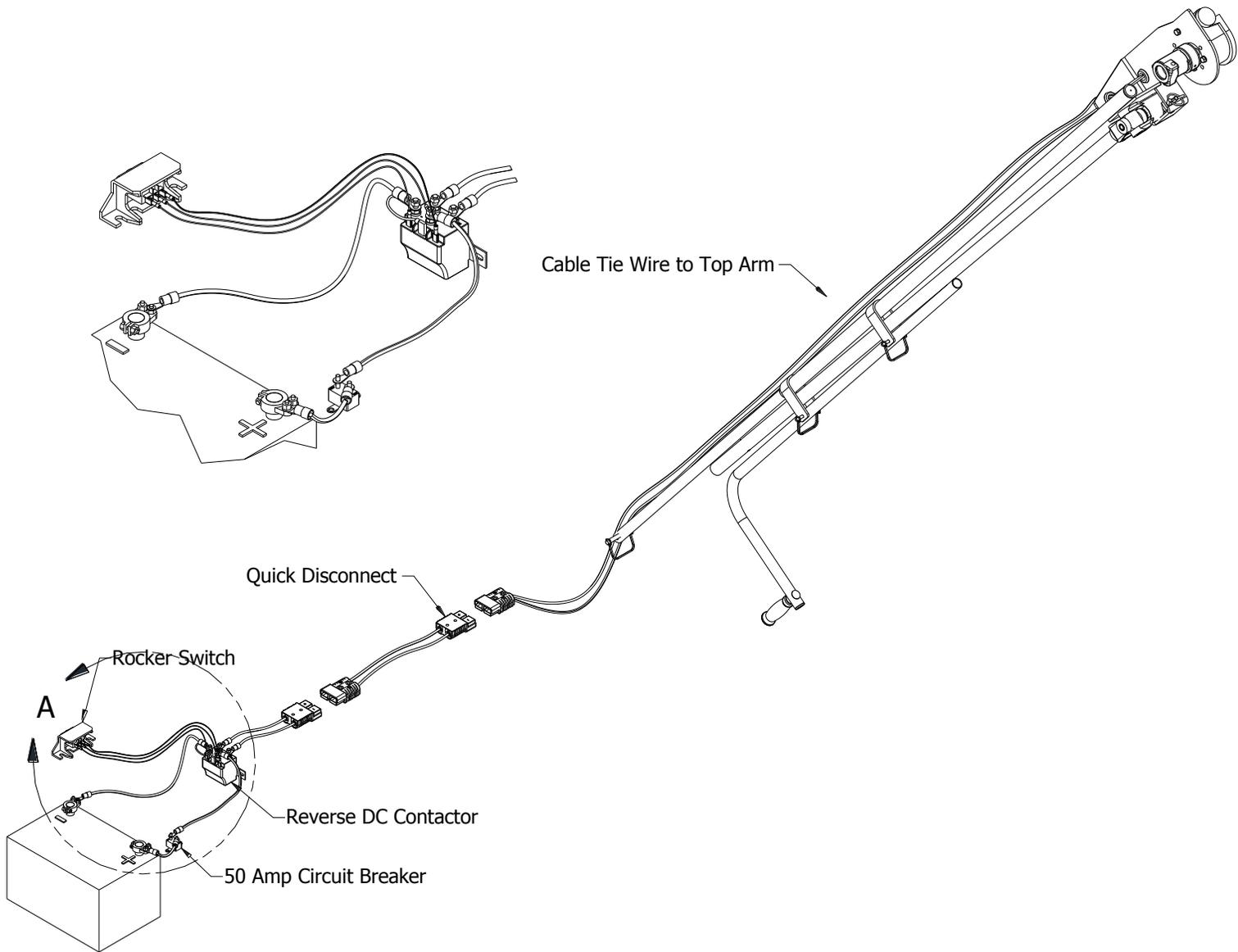
At the reverse dc contactor crimp a 14-16Ga female disconnect to the white and green wire and a 14-16Ga - ¼" ring terminal to the black. Push the white and green wires onto the 2 outside tabs of the reverse dc contactor. Place the black wire on the Bat + positive post of the reverse dc contactor.

The #6 double strand wire going from the reverse dc contactor to battery, crimp #6 - ¼" ring terminals on. Slide a black rubber boot on the black wire and red rubber boot on the red positive wire and connect the red wire to the positive BAT + post of the solenoid and the black to the negative BAT – post.

Splice in the circuit breaker on the positive wire with (2) #6 x #10 ring terminals.

At the battery crimp a #6 - 3/8" ring terminal on each wire and connect it to the battery.

Try the switch and the motor should turn. If the tarp is closing instead of opening, switch the white and green wires around on either the switch or reverse dc contactor.



#### Step 4 - Manual Operation

Disconnect the power cable by the pivot point of the electric arm.

Remove the quick pin from the pivot point, use caution since arm could be under tension.

Remove the 3/8" quick pin from the motor coupler and slide whole arm assembly off the roll tube and set aside.

Remove the crank shaft and handle from the electric arm and slide the u-joint on the spline.

Slide the crank handle into the crank shaft and secure with (1) of wire lock pins using the top hole in the handle.

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Close the tarp and lock tight under the locking flange, there should be roughly 20-30 of force on the crank to lock it in the holder.

Once the proper tension is achieved secure the u-joint to the spline with the 3/8" quick pin.