



## Trouble Shooting For Electric Tarp Systems

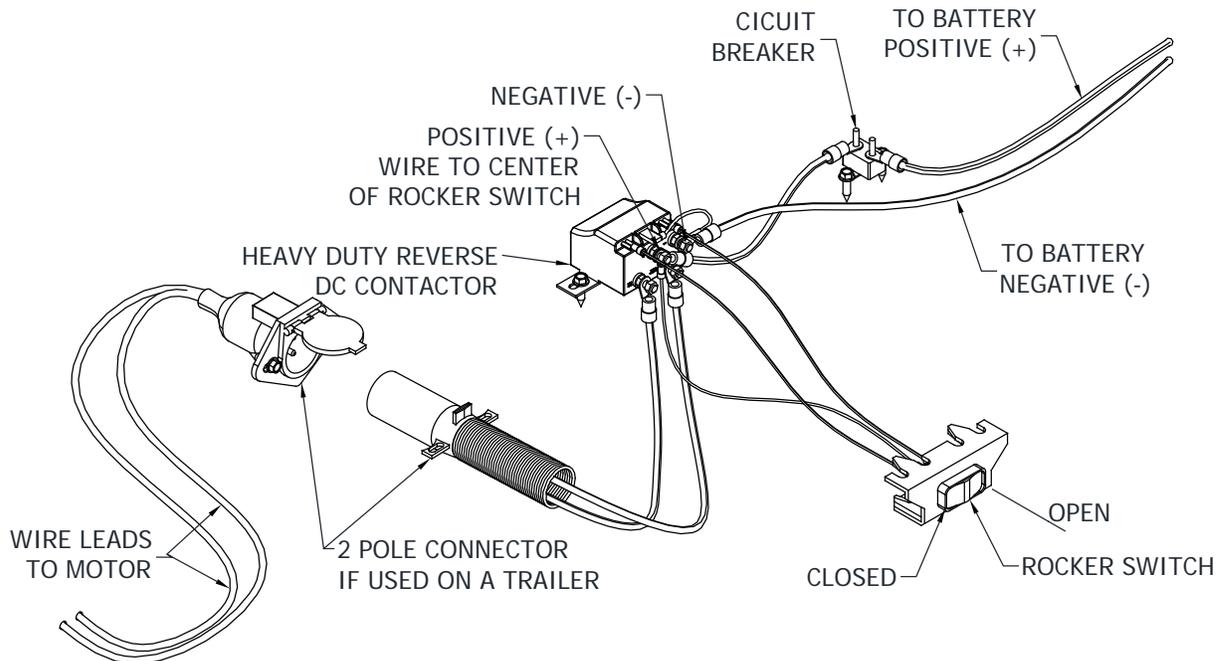
# ROCKER SWITCH

- 1) My motor does not work, how do I check out to see if the problem is the motor?
  - a) Take a set of jumper (booster) cables and hook up one end directly to a 12v battery using red for positive and black for negative, and then take the other end and hook one clamp on one set of 14G & 22G wires, and the other on the remaining set of wires. The motor should turn, switch boost cables on the battery and the motor should turn the direction. If the motor does not run in both directions, you will need to replace the motor. **\*\*\*DO NOT TAMPER WITH MOTOR OR GEAR BOX AS THIS WILL VOID THE WARRANTY.\*\*\***  
Should you have a problem with the motor, call us at 1-306-366-2184.
- 2) If the motor tests ok, but when the switch is used it still does not work. What do I check?
- 3) Trace the wire from the motor to the solenoid block located on the truck checking for damage and cuts. If the motor is on a trailer double check the 2 pole connector for loose connections and corrosion.
- 4) At the solenoid double-check all connections to make sure they are all tight and clean.
- 5) When the open and close switch is pressed the solenoid should make a clicking noise.
  - a) If the solenoid clicks when the switch is pressed both ways then there is a problem with the wire running from the solenoid to the motor.
  - b) If the solenoid only clicks one way then there is a problem with the switch or solenoid or a loose connection.
  - c) If the solenoid does not click, then there are 3 things that may be causing the problem.
    - i) The Switch is not functioning properly.
    - ii) The Solenoid is not functioning properly.
    - iii) There is No power at the solenoid or switch.
  - d) **Test Switch** – First see if there is power coming to the switch by using a 12v tester with the ground attached to the truck frame and the positive to the middle post of the switch.
    - i) If there is no power at the switch then there is either no power at the solenoid. The wire is either damaged or has a loose connection between the switch and the solenoid.
    - ii) If there is power then check if there is power leaving the switch. Press the switch to one side and then connect the positive to the post on the opposite side while the ground is still connected to the frame. Check both posts.
    - iii) If there is no power at one or both sides then the switch needs to be replaced.
    - iv) If there is power leaving the switch on both sides then check the solenoids to see if there is power coming from the switch.
  - e) **Test for power at the Solenoid** - Use a 12v tester and connect the ground/negative to the negative post of the solenoid and the positive to the positive (+) post to see if there is power. If there is no power at the solenoid, then there are 3 things that could be wrong.

- i) Loose connection on your battery
- ii) Wire is damaged
- iii) Circuit breaker

Trace the wire back to the battery checking for damage and loose connections. If there is no damage or loose connections test for power on both sides of the circuit breaker. If there is no power bypass the inline circuit breaker and test to see if there is power at the solenoids and if there is power then the circuit breaker needs to be replaced.

- 6) **Test for power at the Solenoids coming from the Switch** – Connect the ground to the negative post of the solenoids and the positive to one of the small posts that a 14G wire is connected to. Press the switch either way to see if there is power coming to the post. Check both posts.
  - a) If there is no power coming to one or both of the posts then check for the wire for damage or loose connections.
  - b) If there is power at both posts then test to see if there is power leaving the solenoid.
- 7) **Test for power leaving the Solenoids** – With the ground attached to the negative post connect the positive to the one of the outside posts. Press the switch either way to see if there is power there. Check both posts.
  - a) If there is power at both posts then check the wire running to the motor for damage and loose connections.
  - b) If there is no power at one or both posts then the solenoid needs to be replaced.



## ROTARY SWITCH

- 8) My motor does not work, how do I check out to see if the problem is the motor?
- a) Answer: Take a set of jumper (booster) cables and hook up one end directly to a 12v battery using red for positive and black for negative, and then take the other end and hook one clamp on one of the motor posts, and the other on the remaining motor post. The motor should turn one way, change the clamps on the motor to the opposite posts and the motor should turn the other way. If motor does not run in both directions, you will need to replace the motor. **\*\*\*DO NOT TAMPER WITH MOTOR OR GEAR BOX AS THIS WILL VOID THE WARRANTY\*\*\***  
Should you have a problem with the motor, call us toll free at 1-306-366-2184.
- 9) If the motor tests ok, but when the switch is used it still does not work. What do I check?
- a) Answer: Take a 12v power tester with a 12v bulb built into the handle. Take the ground clip from the tester and attach to the frame of the unit to provide a ground. **\*\*\*MAKE SURE CLIP IS ON A CLEAN STEEL PART OF FRAME\*\*\*** Then take the sharp point and touch connection to one of the motor posts. Turn on Cab Switch, if bulb lights up, then power is to one side of motor, if bulb does not light up, check other post. If bulb lights up, then there is power to that side of motor. To check other side of motor, turn Cab Switch to other direction and repeat testing motor posts. Again if bulb lights up, there is power to that side of motor. Should you have no power at motor connection, check the cable going from the motor to the cab switch for any damage or cuts. If cable is good, then you will have to check out the Cab Switch. Take the 12v tester and attach ground wire to the frame and go to the Cab Switch, and turn it on. Test each terminal on the power out side, and if bulb lights up, there is power going out of that side of switch. Turn the Cab Switch to the other direction and repeat test. If bulb lights up, there is power going out on that side of switch. If bulb does not light up on one side or the other, the Cab Switch needs to be replaced. If power is not detected at both sides of the switch, check the incoming power cable. If bulb lights up, you have power going to Cab Switch so if you have power coming in, and no power going out, the Cab Switch must be replaced.
- 10) After testing to see if power is going to Cab Switch and find there is no power going to the Cab Switch. What should I check?
- a) Trace positive cable back to battery connection. There will be an inline circuit breaker. Test both sides of the circuit breaker with the test light. If the light does not light up on both sides of the circuit breaker then the circuit breaker must be replaced.
- 11) After testing to see if power is going to the circuit breaker and find there is no power going to the breaker. What should I check?
- a) Check the connections at the battery. The connections on the positive and negative must be tight and clean from corrosion. Take the 12v tester and check the connection



on the cable. If the bulb does not light up, check your battery, and replace if not working. If bulb lights up, check cable from battery to circuit for loose connections or damage to cable which could be crushed or cut cable.