



INSTALLATION INSTRUCTIONS

Use these instructions to add a Rocker Switch to your electric roll tarp or hopper conversion system.

NOTICE TO INSTALLER: Even if familiar with product, read instructions prior to installation as improvements may be made without notice. Always handle components with care. If you have questions or problems, have serial number ready and call customer service. When done, these instructions must be given to the consumer.

NOTICE TO CONSUMER: Before using this product read operating, maintenance and safety sections. Save these instructions for future reference.

FOR YOUR RECORDS

DATE PURCHASED: _____

WHERE PURCHASED: _____

MOTOR SERIAL NUMBER: _____

(Located on motor and gearbox)



Questions? (800) 233-4655
agricover.com

PREPARATION

Follow electric conversion instructions before installing Rocker Switch.

TOOLS NEEDED

- Protective eyewear
- Marking pencil
- Step ladders or scaffolding
- Drill with 11/16" bit
- #3 and #2 Phillips driver bits
- 3/8" and 7/16" Wrenches
- Wire cutter, stripper and crimper
- Heat gun
- In-lbs. Torque wrench

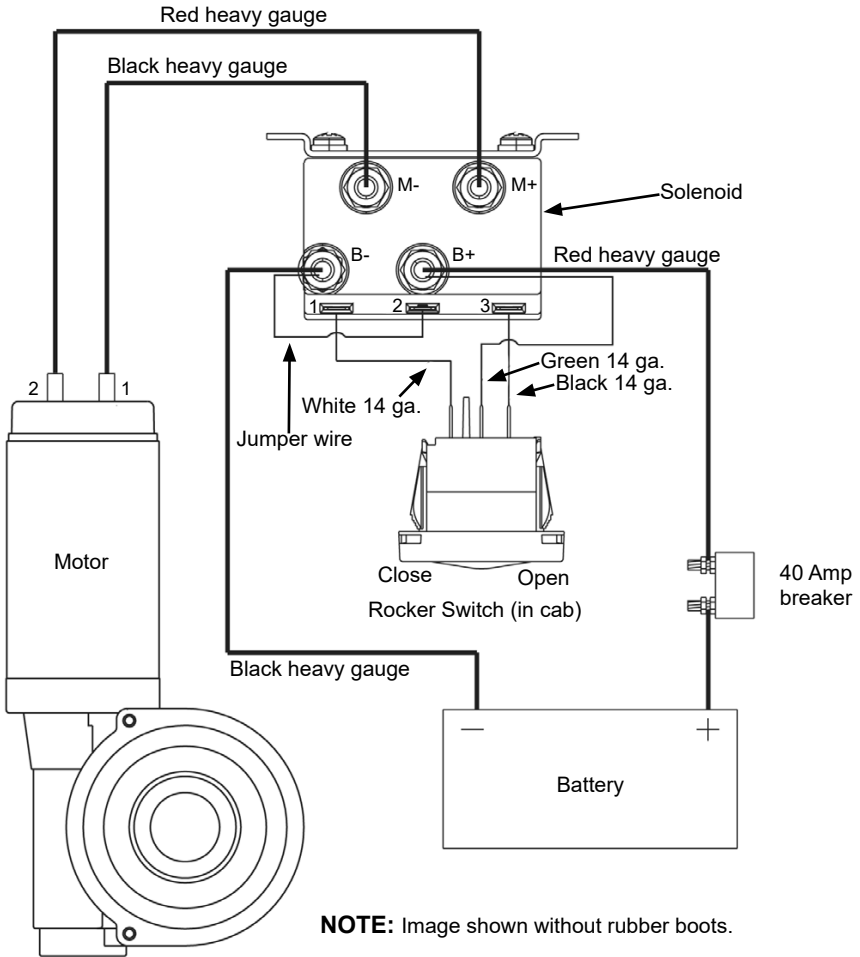
▲ CAUTION: Over torquing hardware may damage components.

NOTE: Hardware appearance and components may vary.

SAFETY INFORMATION

- Disconnect power before servicing system or electrical components.
- Always use caution when operating tarp.
- Ensure people and objects are clear of tarp system before and during operation.
- Instruct everyone who will operate this tarp on the proper procedures.
- Never allow children to operate or play with system.
- Do not operate tarp with box hoisted in elevated position.
- Ensure tarp system is fully open or fully closed before operating vehicle at highway speeds.
- Only operate system when tarp is completely visible.
- Always refer to OEM documentation before installing electrical components.
- Do not use arm as a step.
- Remove snow or debris from top of tarp before operating.
- End caps must be free from commodity. Commodity should not be piled higher than end caps.
- Do not directly spray electric motor or connections with a pressure washer.
- Ensure tarp is fully open before unloading or loading.

WIRING DIAGRAM



▲ CAUTION: Disconnect power before working with electrical system or components.

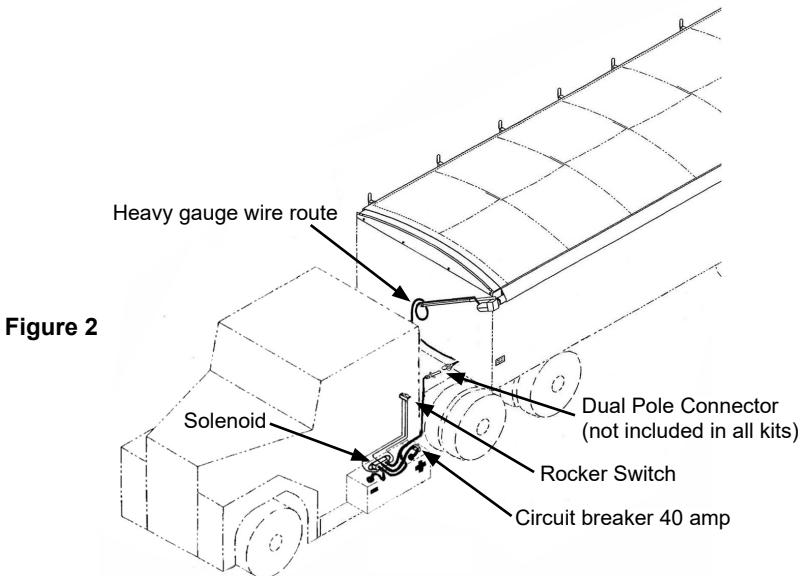
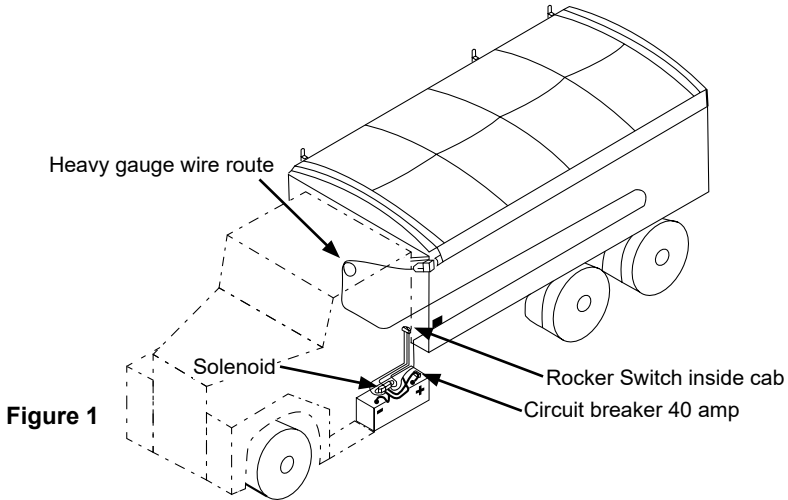
NOTE: This electric system requires a 40 amp modified reset circuit breaker. If breaker trips and does not reset, it may have detected a continuous short and will not reset until short is repaired. Disconnect battery and repair short.

If installing this electric system on an existing unit, ensure there is a circuit breaker installed and operating properly. If breaker is missing or malfunctioning, replace it with a new 40 amp modified reset circuit breaker.

IMPORTANT: Operating system without a circuit breaker voids warranty.

1: ELECTRIC ROUTING INSTRUCTIONS

- A. Mount solenoid in protected area near battery using (2) #2 x 1" self-drilling Phillips screws.
- B. Route heavy gauge wires from battery to solenoid and from solenoid to tarp motor. Allow ample wire where cutting and mounting connections take place. See Figure 1 (box with hoist) and Figure 2 (box without hoist) below to determine best route.
- C. Select convenient location in cab to mount switch bracket with (2) #14 x 1" self-drilling Phillips screws through slots in back of bracket.
- D. Route 14 ga. wires from switch to solenoid. Rubber grommet is supplied for area where wire enters cab, 11/16" hole is needed for grommet.

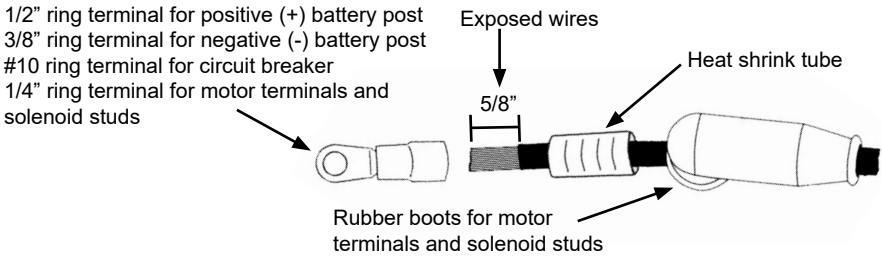


2: PREPARING WIRES AT SOLENOID

Tip: Use dielectric grease at all electrical connections.

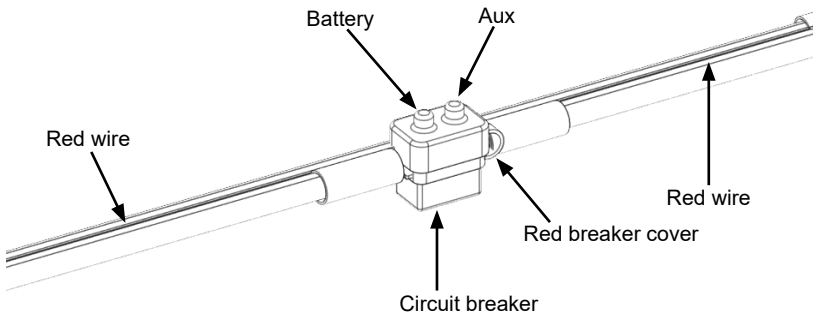
A. Split heavy gauge wires at solenoid about 4" back. Prep ends of black and red heavy gauge wires leading from motor and battery with heavy gauge 1/4" ring terminals, heat shrink tubes and rubber boots for (4) solenoid studs. Attach wires to solenoid as shown in Wiring Diagram.

NOTE: 14 ga. jumper wire leads through same rubber boot with black (-) wire from battery. Green 14 ga. switch wire leads through same rubber boot with red (+) wire from battery.



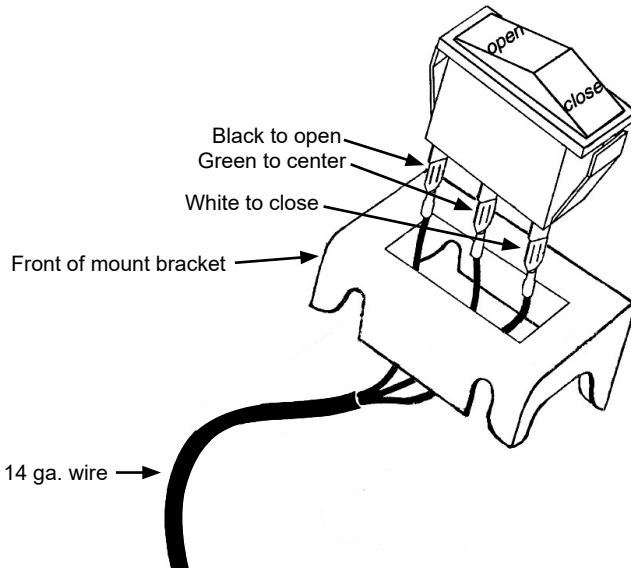
3: INSTALLING CIRCUIT BREAKER

A. Install circuit breaker close to battery in line with red (+) wire using #10 ring terminals and heat shrink.



4: INSTALLING ROCKER SWITCH

- A. At switch, strip 14 ga. wire ends about 3/8" back, attach push-on connectors and crimp. Pull wires through mount bracket and attach white to close, black to open and green to center terminal. Push switch into mount bracket until it locks into place.
- B. Prep end of black and white 14 ga. wires at solenoid with push on connectors.
- C. Prep end of green 14 ga. wire at solenoid with 1/4" ring terminal.
- D. Attach white wire to 1, black to 3 and green to B+ terminal on solenoid as shown in Wiring Diagram.
- E. Locate and clean suitable position to apply important sticker.



5: WIRING DUAL POLE CONNECTOR (Optional)

Refer to included instructions to install Dual Pole Connector, if applicable.

6: PREPARING WIRES AT BATTERY

A. Prep end of black heavy gauge wire for battery (-) post with heat shrink tube and 3/8" ring terminal. **Do not connect wire to battery.**

B. Prep end of red heavy gauge wire for battery (+) post with heat shrink tube and 1/2" ring terminal. **Do not connect wire to battery.**

7: WIRING MOTOR

▲ IMPORTANT: Inspect clearances of the motor, pivot arm and wiring to ensure they have a clear path to operate. If there are obstructions make adjustments.

A. Prep wire ends for motor terminals with rubber boots, heat shrink tubes and 1/4" ring terminals.

IMPORTANT: Always hold base nut on motor terminal while tightening top nut.

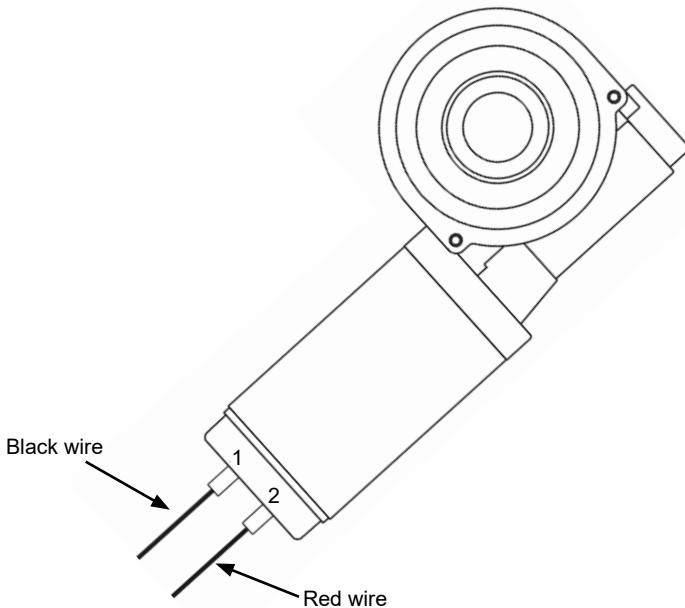
B. Attach black heavy gauge wire to terminal 1 on motor and red heavy gauge wire to terminal 2. Secure with flat washer and flange nut, then torque to 42 in-lbs.

C. At battery, first attach red wire to (+) post, then attach black wire to (-) post. Push OPEN to check power.

NOTE: If motor turns tarp in wrong direction, reverse black and white 14 ga. wires at solenoid. Check system again.

D. Ensure all connections are secure and all wires are clear of sharp edges. Use cable ties to secure wire to upper pivot arm if applicable.

NOTE: Image shown without rubber boots.



OPERATION

TO CLOSE

A. Hold switch in CLOSED position, visually view tarp and release switch when roll tube is tight.

TO OPEN

A. Hold switch in OPEN position, visually view tarp and release switch when roll tube touches tarp stops.

NOTE: Overtightening could cause damage to tarp stops, tubes and tarp.

INSPECTION AND MAINTENANCE

Periodic preventive maintenance should be practiced:

- Inspect tarp and hardware for abrasions or loosened bolts that may need adjustment. Adjust tension when needed. Tarp must be kept to a recommended tension setting equally on both ends, or excessive tarp wear may occur.
- Tarp should always operate as well as when first installed. Make all appropriate repairs or adjustments immediately before serious damage occurs.
- Check the tightness of mounting bolts and electrical connections, remove any dirt or corrosion that may have accumulated on the electrical connections.
- Always use genuine Agri-Cover, Inc. replacement parts.

GENERAL TROUBLESHOOTING

If system has a battery cutoff switch, ensure it is turned to "ON" position.

Check all wiring components.

- Check positive (+) and negative (-) wire connections on vehicle battery.
- Retighten and re-crimp loose connections.
- Replace any corroded connections.
- Check all wire for worn or bare spots.
- Verify 12 volts or more come into the Rocker Switch while system is operating.

Check power sources.

- Check vehicle battery and charge, replace if required.

Check for physical damage to any equipment.

- Repair or replace if required.

TROUBLESHOOTING ROCKER SWITCH

PROBLEM

System will not operate with Rocker Switch (**cannot** hear a clicking noise from solenoid).

System will not operate with Rocker Switch (**can** hear a clicking noise from solenoid, but nothing happens).

The Rocker Switch operates the motor, but tarp motor turns freely and tarp does not move.

System does not operate with Rocker Switch. Motor engages but stalls and system does not turn.

SOLUTION

A. If system has a battery cutoff switch, ensure it is turned to "ON" position.

B. Verify correct system wiring. See Wiring Diagram.

C. Auto circuit breaker may have tripped. Wait several minutes and try again. If it still does not work, circuit breaker may have detected a continuous short and the short must be repaired.

A. Verify the Rocker Switch receives a minimum of 12 volts from battery.

B. Verify at least 12 volts transmit to motor terminals. If the Rocker Switch receives 12 volts but does not transmit 12 volts, problems may be in Rocker Switch.

C. Verify the motor receives at least 12 volts (use caution around moving parts). If the motor receives 12 volts and doesn't turn, the problem may be in the motor.

D. If the Rocker Switch transmits 12 volts to the motor, and it does not receive 12 volts, problem may be wires connecting solenoid to motor.

A. Check pin connections in shaft between motor and roll tube. If missing, replace sheared bolt or pin with new clevis pin.

B. Check tarp system for damaged or misaligned parts and correct as needed.

C. Ensure tarp is free from obstruction.

A. Check conditions and alignment of system. Ensure there are no broken components or obstructions. Refer to system's manual.

MANUFACTURER'S LIMITED WARRANTY

Agri-Cover, Inc. extends the following one (1) year Limited Warranty on its AGRI-COVER™ Rocker Switch to the original retail purchaser:

Agri-Cover, Inc. warrants AGRI-COVER™ Rocker Switch to be free from defects in workmanship under normal use for one (1) year from date of manufacture unless accompanied by proof of purchase. This Limited Warranty does not cover any damage due to accident, abuse, misuse, alteration, neglect, improper installation, or ordinary wear and tear.

Agri-Cover, Inc.'s sole obligation under this Limited Warranty is limited to the repair or replacement, at its option, of defective parts only. No labor or service allowance is given or implied. IN NO EVENT SHALL AGRI-COVER, INC. BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. AGRI-COVER, INC. EXPRESSLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE LIMITED WARRANTY DESCRIPTION CONTAINED HEREIN.

For warranty, have your serial number ready and call our Customer Service Department at 800-233-4655 to determine if only a replacement part is needed or if the AGRI-COVER™ Rocker Switch needs to be returned for inspection and repair. Goods to be returned must have a pre-authorized RA # (Return Authorization Number) - obtained by calling the number above. Mark the number on the package and ship it freight prepaid to address below. Agri-Cover, Inc. will pay freight to return goods to sender.

This Limited Warranty gives you specific legal rights and you may have other rights, which vary, from state to state.

For replacement parts shop tarreplacementparts.com or call Customer Service at 800-233-4655.



Agri-Cover, Inc.
Customer Service Dept
3000 Hwy 281 SE
Jamestown, ND 58401
Phone: 800-233-4655

Hours: 8:00 am - 5:00 pm CST Monday through Friday, except Holidays