



TARPING SYSTEMS & ACCESSORIES

P/N 1127663 Rev. C

# OWNER'S MANUAL



## AutoGate™ Electric Farm Swing Gate

*READ BEFORE INSTALLING*

PO BOX 713 ■ 2309 SHUR-LOK STREET ■ YANKTON, SD 57078-0713  
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Returns of a product for warranty must be accompanied by a Return Merchandise Authorization number (RMA#), obtained by calling Customer Service at 866-748-7435, and sent, with freight paid by us, to Shur-Co®, LLC, 2309 Shur-Lok St., PO Box 713, Yankton, SD 57078. All products returned without an RMA# will be refused. When we issue the RMA#, we will also issue a call tag to have UPS (or other freight company) pick up the product. C.O.D. returns not accepted. We will pay no storage fees for a warranty product return prior to pick by us or the freight company. If a warranty product return is scheduled to be picked up by us, we will pick up the product at our earliest convenience.

If a product returned is found, in our judgement, to be defective in material or workmanship, our obligation under this warranty is limited to the repair or replacement of the product, which will be made by us. Repair or replacement will be at our discretion, with replacements being made using current products performing in the equivalent function. Labor charges, other than those incurred at our factory, including, but not limited to, any labor to install a repaired or replacement product, are not covered under this warranty. All expenses associated with delivering defective products to our factory and delivering repaired or replacement products from our factory to the owner will be paid by us.

If the product returned is found, in our judgement, to be non-warrantable, the owner will be contacted to authorize repair work, purchase of a replacement product or return of the product, all of which will be at the owner's expense. Payment authorization must be received by us before any non-warrantable product is repaired, replaced or returned. All expenses associated with delivering the repaired non-warrantable product, a replacement product or the non-warrantable product from our factory to the owner will be paid by the owner.

In no event will we be liable for any damages of any kind to person, product or property, including but not limited to indirect, incidental, special, consequential or punitive damages, or damages for loss of profits or revenue, even if we have been advised of the possibility of such damages. There are no warranties for used products or products that have been repaired, altered, modified or subjected to misuse, negligence or accident. We will not repair or replace products that fail or malfunction due to ordinary wear and tear, except as expressly noted in a product-specific warranty. Use of non-Shur-Co®, LLC parts in conjunction with Shur-Co®, LLC products will void this product warranty.

\*Certain products have specific warranties that differ from this warranty, for example motors and electronics. Product-specific warranty documentation is available for these items. In the event of a conflict between this warranty and a product-specific warranty, the product-specific warranty will govern.

**RETURN POLICY.** All sales final. See WARRANTY above for return details.

**OTHER.** All prices, product listings, sizes, weights and manufacturing details are subject to change without notice. No person is authorized to modify the foregoing conditions of sale whatsoever.

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**MESSAGE TO OWNERS**

Thank you for buying this product from Shur-Co®. We appreciate your confidence in our products. Please read and thoroughly understand this manual before installing and/or operating this system.

Pay particular attention to important safety and operating instructions, as well as warnings and cautions. The hazard symbol  is used to alert users to potentially hazardous conditions and is followed by caution, warning or danger messages.

Failure to READ AND FOLLOW INSTRUCTIONS could result in failure of your system and/or personal injury. Your trailer requirements may, however, call for minor variations to these instructions.

Please inspect your system periodically. Repair or replace worn or damaged parts to your system.

QUESTIONS? CALL OUR HELP LINE:

**1-866-748-7435**

MON-FRI 8 AM-5 PM CENTRAL TIME

**SAFETY**

We at Shur-Co® are concerned with your safety and the safety of all those operating this system. Therefore, we have provided safety decals at various locations on your system. Keep decals as clean as possible at all times. Replace any decal that has become worn or damaged, painted over or otherwise difficult to read. Replacement decals are available through Shur-Co® dealers.

**SAFETY INSTRUCTIONS**

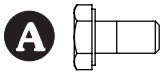
- 1. Always wear safety glasses during installation.**
- 2. Keep body and clothing clear of moving parts.**
- 3. No other use of this system is authorized, except as designed.**

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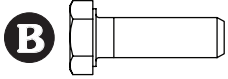
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**TOOLS REQUIRED**

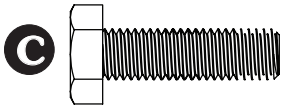
- 1. Electric Drill
- 2. Air or Electric Impact Wrench
- 3. Sockets - 5/16", 1/2", 9/16", 17mm
- 4. Nut Driver - 5/16"
- 5. Hand Wire Crimper
- 6. Wire Stripper
- 7. Voltmeter
- 8. Wrenches - 1/2", 9/16", 17mm
- 9. Drill Bits - 1/4", 5/16", 3/8"



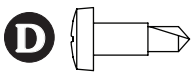
**A** 1703960 Hex Head Cap Screw - 1/4" x 1/2"



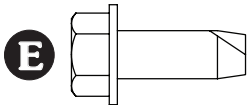
**B** 1704416 Hex Head Cap Screw - 5/16" x 1"



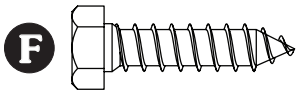
**C** 1706072 Hex Head Cap Screw M10 x 1-1/2"



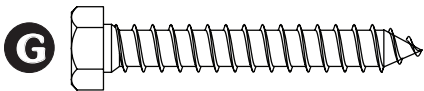
**D** 1700398 Self-Drilling Screw - 1/4" x 3/4"



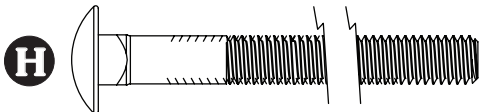
**E** 1700400 Hex Head Self-Drilling Screw - 3/8" x 1" 1704931 Nylock Hex Nut - Flange 5/16"



**F** 1706065 Hex Head Lag Screw - 3/8" x 1-1/2"



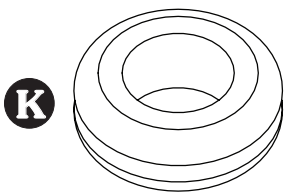
**G** 1706066 Hex Head Lag Screw - 3/8" x 2-1/2"



**H** 1706073 Carriage Bolt - 3/8" x 7"



**J** 1703231 Cable Tie - 8"



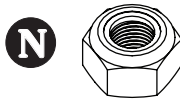
**K** 1703282 Rubber Grommet - 1.25 and .188



**L** 1700408 Hex Nut - 1/4"



**M** 1700419 Nylon Lock Hex Nut - 5/16"



**N** 1705361 Nylock Hex Nut - M10



**P** 1700407 Hex Nut - 3/8"



**Q** 1704931 Nylock Hex Nut - Flange 5/16"



**R** 1700428 Flat Washer - 5/16"



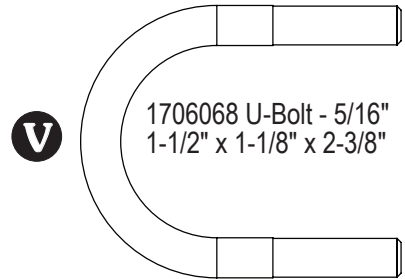
**S** 1700429 Flat Washer - 5/16"



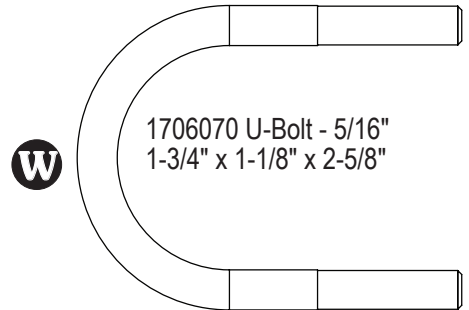
**T** 1700436 Lock Washer - 1/4"



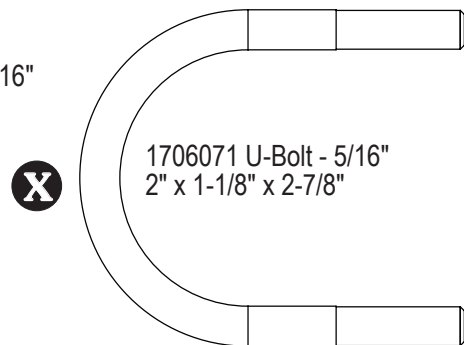
**U** 1700434 Lock Washer - 3/8"



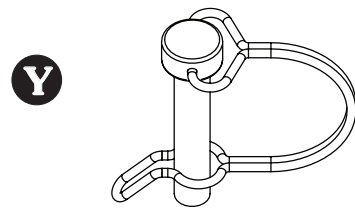
**V** 1706068 U-Bolt - 5/16"  
1-1/2" x 1-1/8" x 2-3/8"



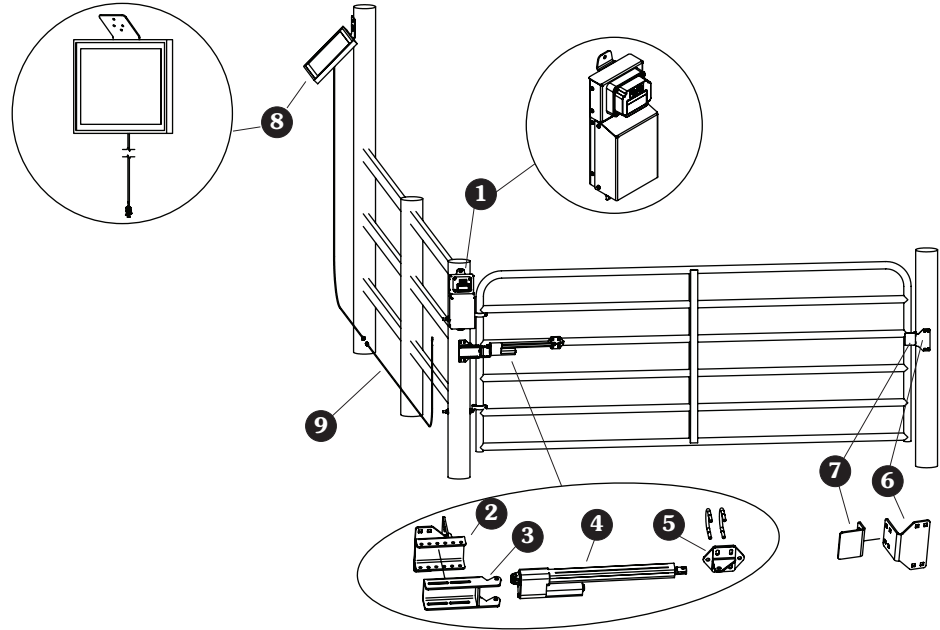
**W** 1706070 U-Bolt - 5/16"  
1-3/4" x 1-1/8" x 2-5/8"



**X** 1706071 U-Bolt - 5/16"  
2" x 1-1/8" x 2-7/8"



**Y** 1704427 Wire Lock Pin - 3/8" x 1-3/4"



**Item Description**

- 1. Control Box
- 2. Outer Slide Hinge Bracket
- 3. Inner Slide Hinge Bracket
- 4. Actuator
- 5. Gate Bracket
- 6. Stop Plate Mounting Bracket
- 7. Stop Plate
- 8. Solar Panel
- 9. Extension Cable

Locate components in desired mounting locations.

- Verify that 60' extension cable ⑨ is long enough to connect solar panel to control box.
- Mount solar panel facing south, not being shaded by buildings, trees or other obstructions.
- If livestock can come into contact with gate when fully open or closed, gate should be positioned near a sturdy post or fence to prevent damage to bracketry. A stop bracket ③, ⑦ is included for closed position if gate closes adjacent to post but does not make contact.

**NOTE:** System can be mounted on left or right side hinge. System is a "push-to-open" type opener.

**⚠ WARNING**

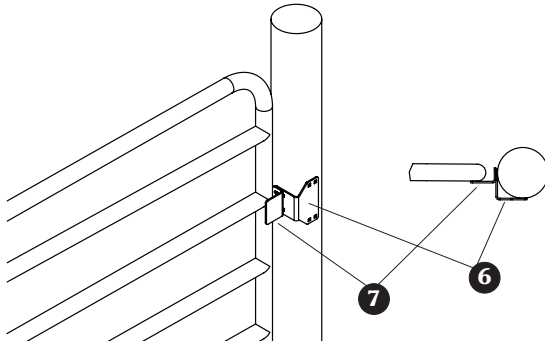
Do not obstruct solar panel. Even small shadows from 2x4 boards or pipes can cause a significant reduction in battery charging leading to system malfunction.

**⚠ WARNING**

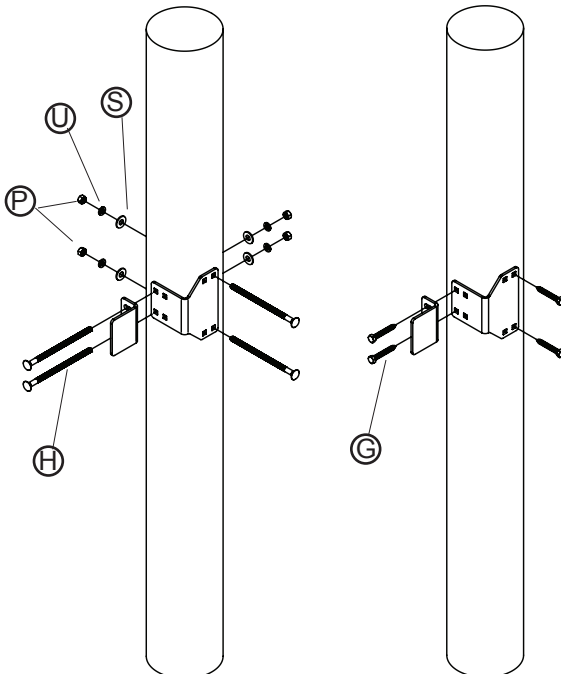
Keep solar panel clear of snow and dirt. A covered solar panel will result in system malfunction.

## STOP PLATE

- STEP 1:** If gate does not make contact with far post when closed, install stop brackets.
- STEP 2:** Align stop plate mounting bracket **6** and stop plate **7** with gate closed to ensure gate will come into contact with stop bracket.

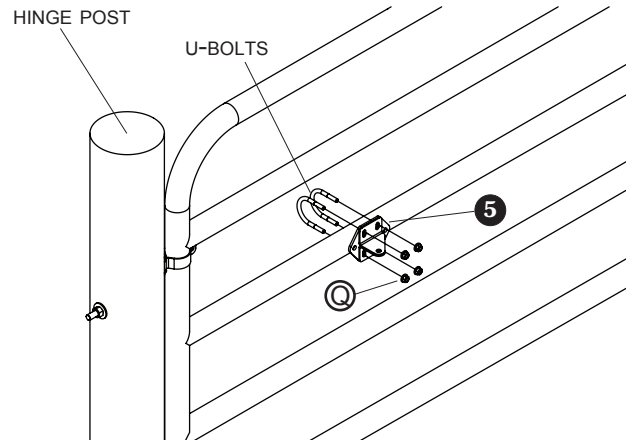


- STEP 3:** Keep stop plate mounting bracket in place and mark holes for drilling. For 4" posts, use inner holes, and for larger posts, use outer holes.
- STEP 4:** Drill holes and install fasteners. For wooden posts, use either carriage bolts or lag screws. For metal posts, use carriage bolts.
- If using 3/8" carriage bolts **F**, drill 3/8" holes through post.
  - If using 3/8" lag screws, drill 1/4" holes into post at least 2-1/2" deep **G**.



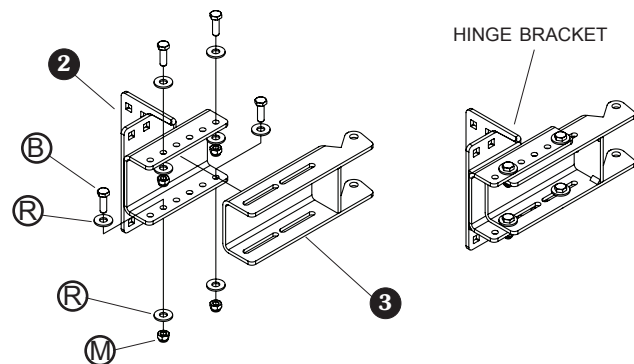
## GATE BRACKET

- STEP 5:** Select appropriately sized U-bolts **V**, **W**, or **X** for gate crossbar. Install gate bracket **5** and 5/16" nuts **Q**, but do not tighten nuts at this time. Bracket should be able to slide on crossbar.



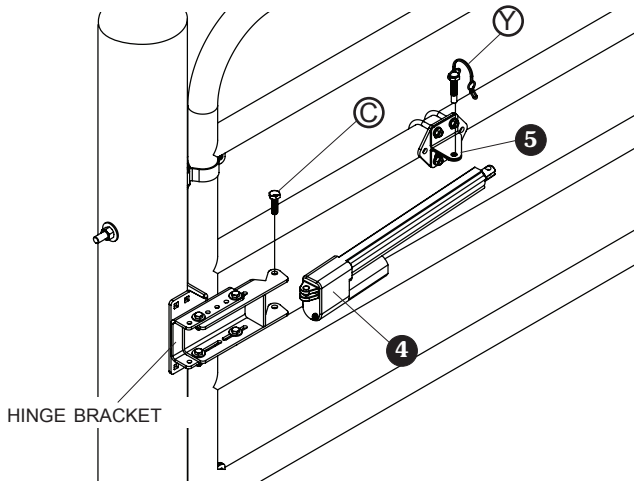
## HINGE BRACKET

- STEP 6:** Place inner slide hinge bracket **3** into outer slide hinge bracket **2**. Install 5/16" cap screws, flat washers and nylon nuts into bracket holes shown below and loosely tighten nuts.

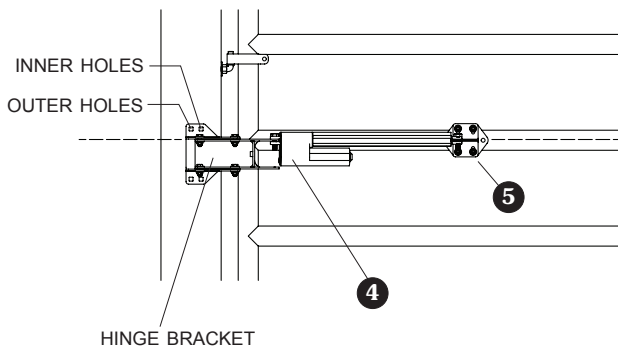


**NOTE:** Adjust gate hinges if gate does not swing level as it opens and closes. Actuator must remain parallel to gate as it opens and closes.

**STEP 7:** Place actuator **4** between hinge bracket and gate bracket **5**. Use screw **C** and pin **Y** to temporarily hold actuator.

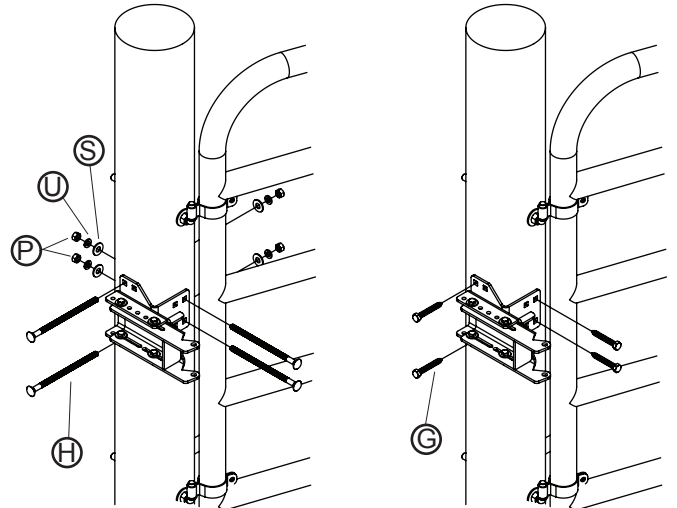


**STEP 8:** Align hinge brackets so actuator is level. Hold hinge bracket in place and remove actuator. Mark holes (2 holes on front and 2 holes on side) for drilling. For 4" posts, use inner holes, and for larger posts, use outer holes.

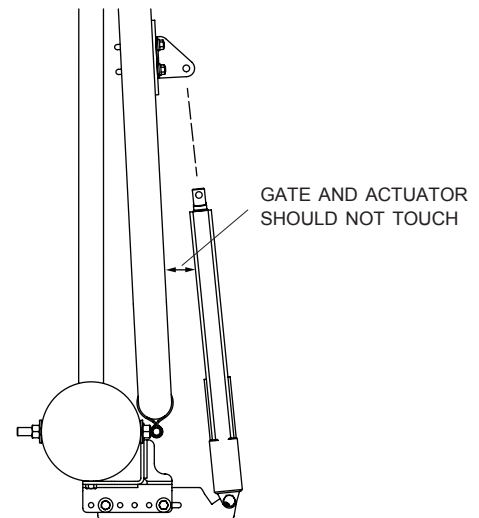


**STEP 9:** Drill holes and install fasteners. For wooden posts, use either carriage bolts or lag screws. For metal posts, use carriage bolts.

- If using 3/8" carriage bolts **F**, drill 3/8" holes through post.
- If using 3/8" lag screws **G**, drill 1/4" holes into post at least 2-1/2" deep.



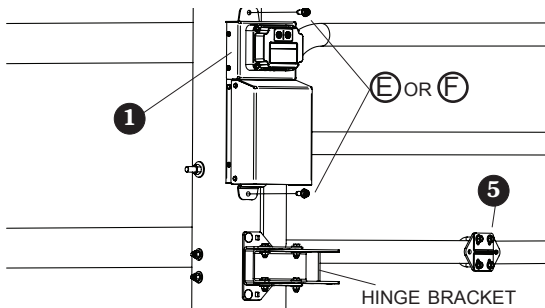
**STEP 10:** Place actuator back on hinge bracket. Place only one cap screw in hinge bracket to allow actuator to pivot on hinge bracket. Do not place nut at this time. Push gate fully open. Swing actuator towards gate until actuator points towards gate bracket **5**. If actuator body makes contact with gate, adjust inner slide hinge bracket **3** out farther by one hole location. Alternatively, if there is adequate clearance between actuator and gate, inner slide hinge bracket may be brought closer to hinge post by one hole location.



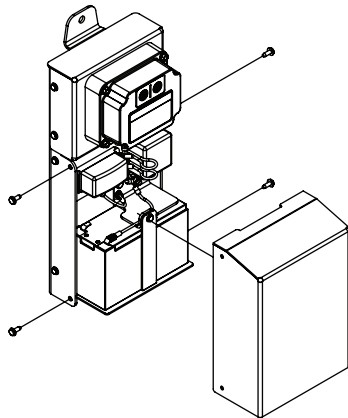
**STEP 11:** Remove actuator and tighten all fasteners holding inner slide hinge bracket to outer slide hinge bracket.

**STEP 1:** Mount control box ① above hinge bracket. Drill holes and install fasteners. For wooden posts, 3/8" lag screws can be used. For metal posts, use 3/8" self-tapping screws.

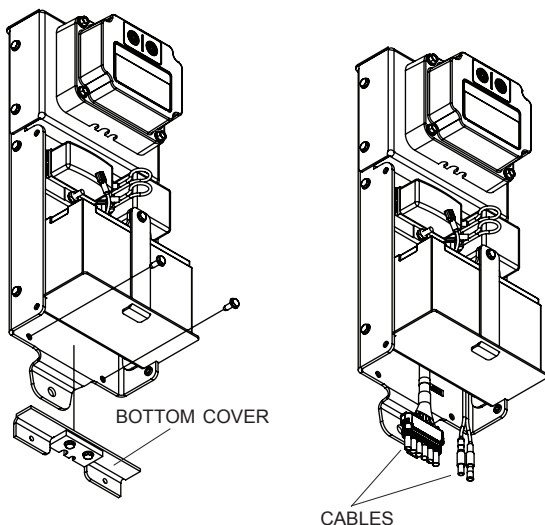
- If using 3/8" self-tapping screws, drill 5/16" holes.
- If using 3/8" lag screws, drill 1/4" holes.



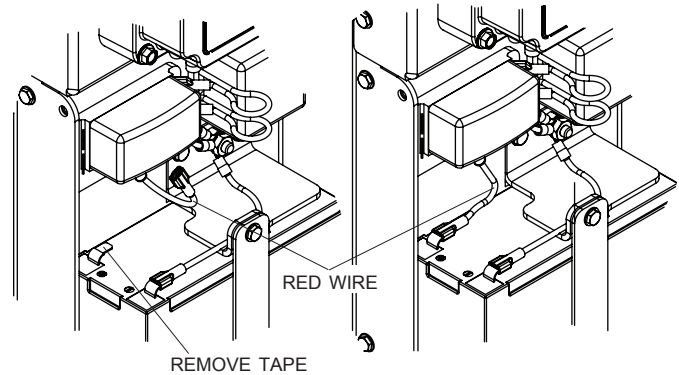
**STEP 2:** Loosen 5/16" fasteners (4) holding front panel and remove front panel.



**STEP 3:** Loosen 5/16" fasteners (2) on bottom of control box and remove bottom cover for access to cable connectors. Gently pull out cables.



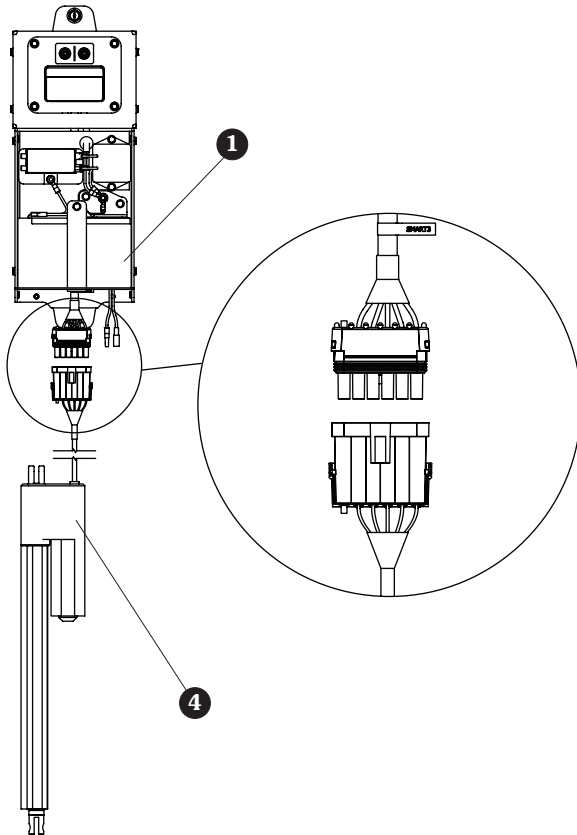
**STEP 4:** Remove electrical tape from positive battery terminal. Connect red wire to positive battery terminal inside control box.



**STEP 5:** Check battery voltage. If voltage is less than 12.2 volts (about 50% charged), complete solar installation and allow battery to charge for 15 minutes before proceeding with actuator installation.

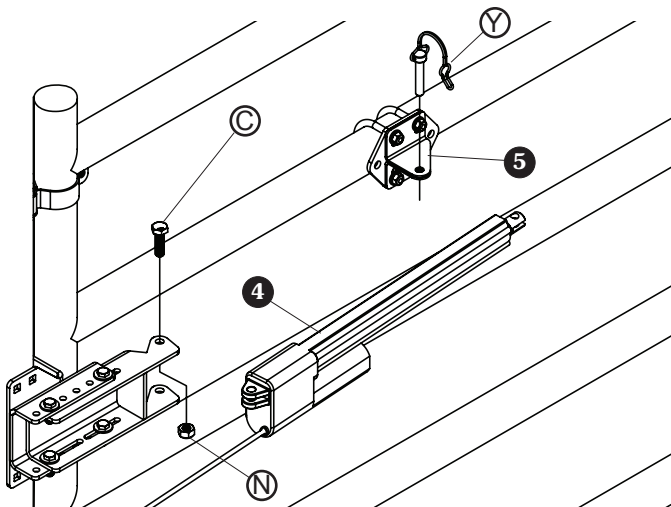


**STEP 1:** Connect actuator cable to control box.

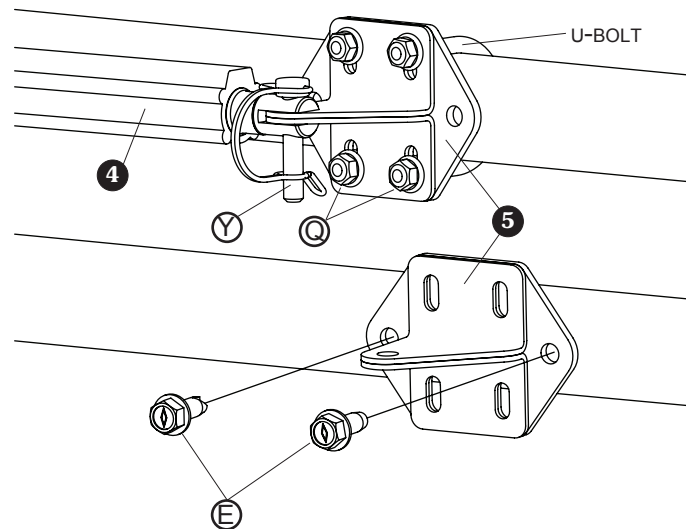


**STEP 2:** Use buttons on control box to fully retract actuator. Extend actuator about 1".

**STEP 3:** Ensure gate is in closed position and contacting far post or stop plate (if installed). Slide gate bracket **5** to line up with actuator mounting hole. Install actuator using cap screws **C**, nylock nuts **N** and wire lock pin **Y**. Tighten nuts until snug, then back off 1/4 turn.



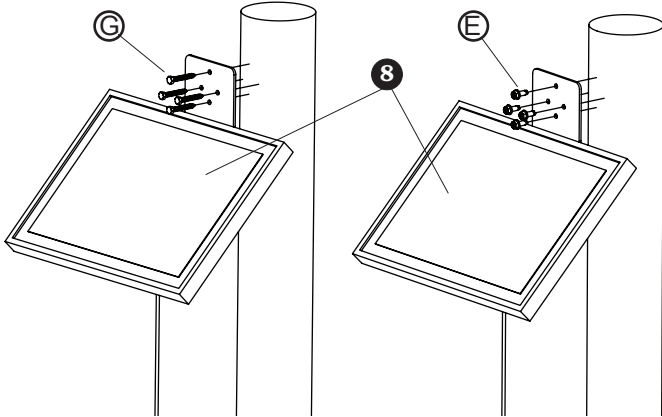
**STEP 4:** Tighten U-bolt nuts to secure gate bracket. If U-bolts cannot be used, drill 5/16" holes into gate and fasten gate bracket using 3/8" self-tapping screws **E**.



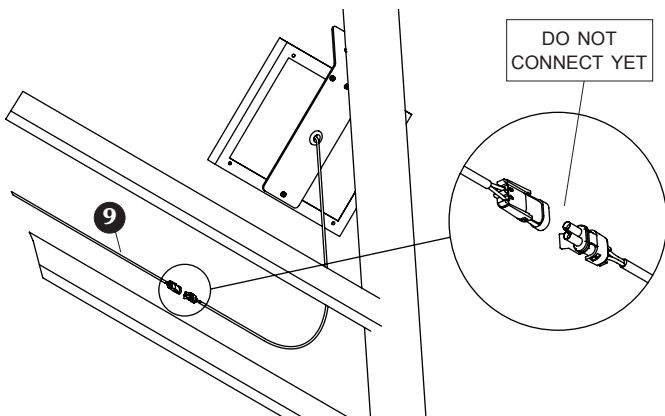
**NOTE:** U-bolts may not have enough holding power on some thin-walled tube. It may be necessary to install self-drilling screws in addition to the U-bolts.

**STEP 1:** Place solar panel assembly ③ in desired location. Mark holes for drilling. Drill holes and install fasteners. For wooden posts, 3/8" lag screws can be used. For metal posts use the 3/8" self-tapping screws.

- If using 3/8" self-tapping screws ⑤, drill 5/16" holes.
- If using 3/8" lag screws ④, drill 1/4" holes.



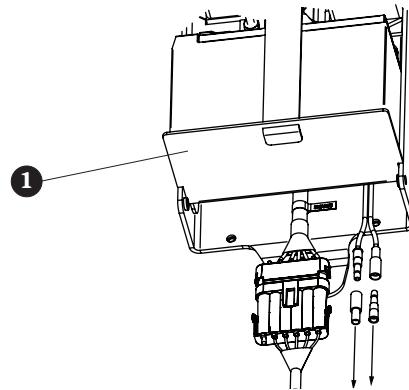
**STEP 2:** Route extension cable ⑨ from solar panel to control box. DO NOT connect the solar panel cable to the extension cable at this time.



**NOTE:** Routing solar panel cable and extension cable through conduit is recommended, especially if livestock will be in close proximity. Also, check local building codes for wiring requirements.

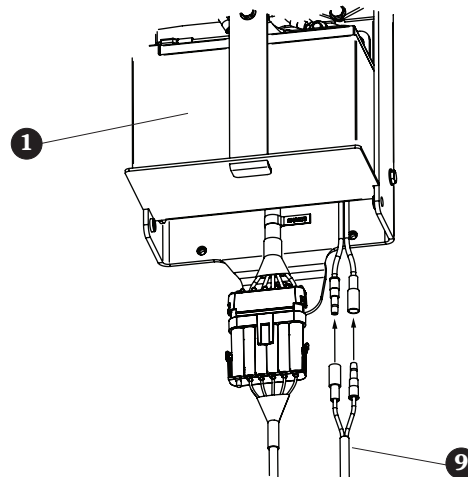
**NOTE:** Charge controller prevents battery from discharging through solar panel at night.

**STEP 3:** Remove extra pair of bullet connections from cable exiting bottom of control box ①.



**STEP 4:** If desired, extension cable can be cut shorter to remove excess wire. If extension cable is shortened, crimp male bullet connector to black wire and crimp female bullet connector to white wire of extension cable. Make sure solar panel is disconnected from extension cable before cutting extension cable.

**STEP 5:** Connect extension cable ⑨ to control box ①.



## BATTERY VOLTAGE AND SOLAR PANEL CHARGING

**STEP 6:** Measure battery voltage. A fully charged battery should read about 12.7 volts. Prior to charging, typical battery voltage may read between 12.2 and 12.7 volts.

**STEP 7:** Connect solar panel cable to extension cable.

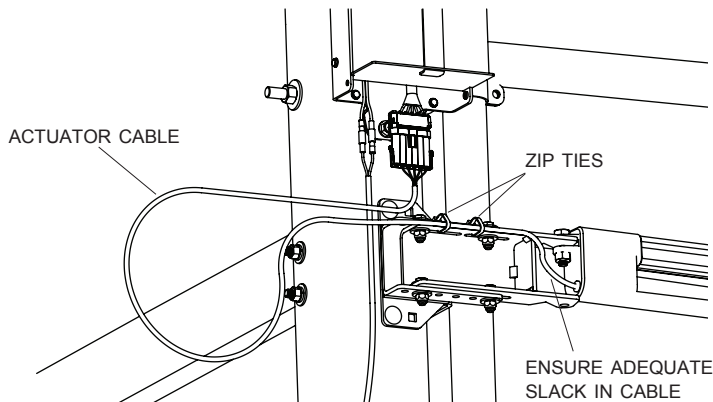
**STEP 8:** Measure battery voltage again. Battery voltage should read 12.8 to 14.5 volts while solar panel is charging battery in daytime.

**HINGE BRACKET**

**STEP 1:** Finalize hinge bracket adjustment. Use buttons on control box to open gate. Watch actuator to make sure body of actuator does not come into contact with gate. If it does, stop gate and adjust slide bracket farther out.

**SECURE WIRING**

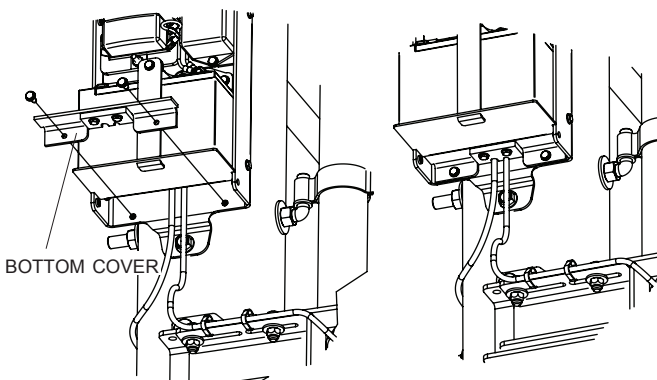
**STEP 2:** Secure actuator cable to hinge bracket with zip ties. Leave slack near hinge point to allow for gate to open while preventing cable from being pinched by hinge bracket. Open and close gate to verify actuator cable has adequate slack and does not become pinched.



**STEP 3:** Secure and finalize wiring from solar panel to control box.

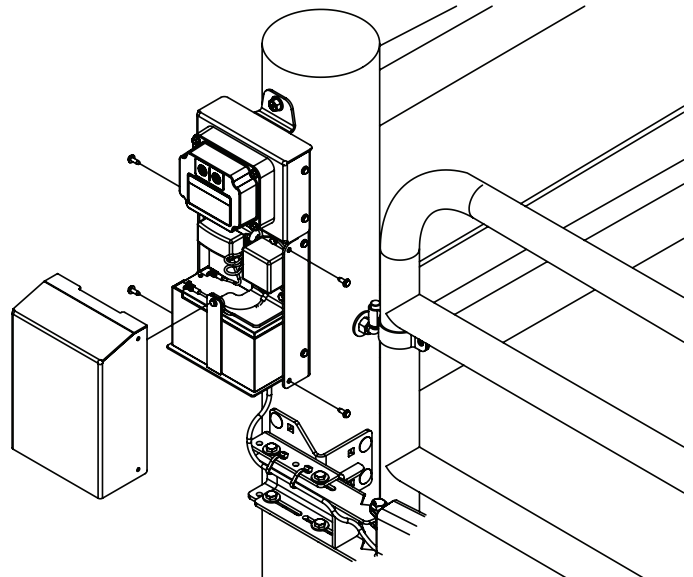
**STEP 4:** Gently push connectors and excess wire up into control box channel.

**STEP 5:** Replace bottom cover of control panel while capturing cables in semi-circle cutouts. Actuator cable is smaller than extension cable; be sure to place actuator cable in smaller cutout. Verify wires are not being pinched and tighten 5/16" cap screws removed earlier.



**FRONT PANNEL**

**STEP 6:** Replace front panel and secure with 5/16" cap screws (4) removed earlier.



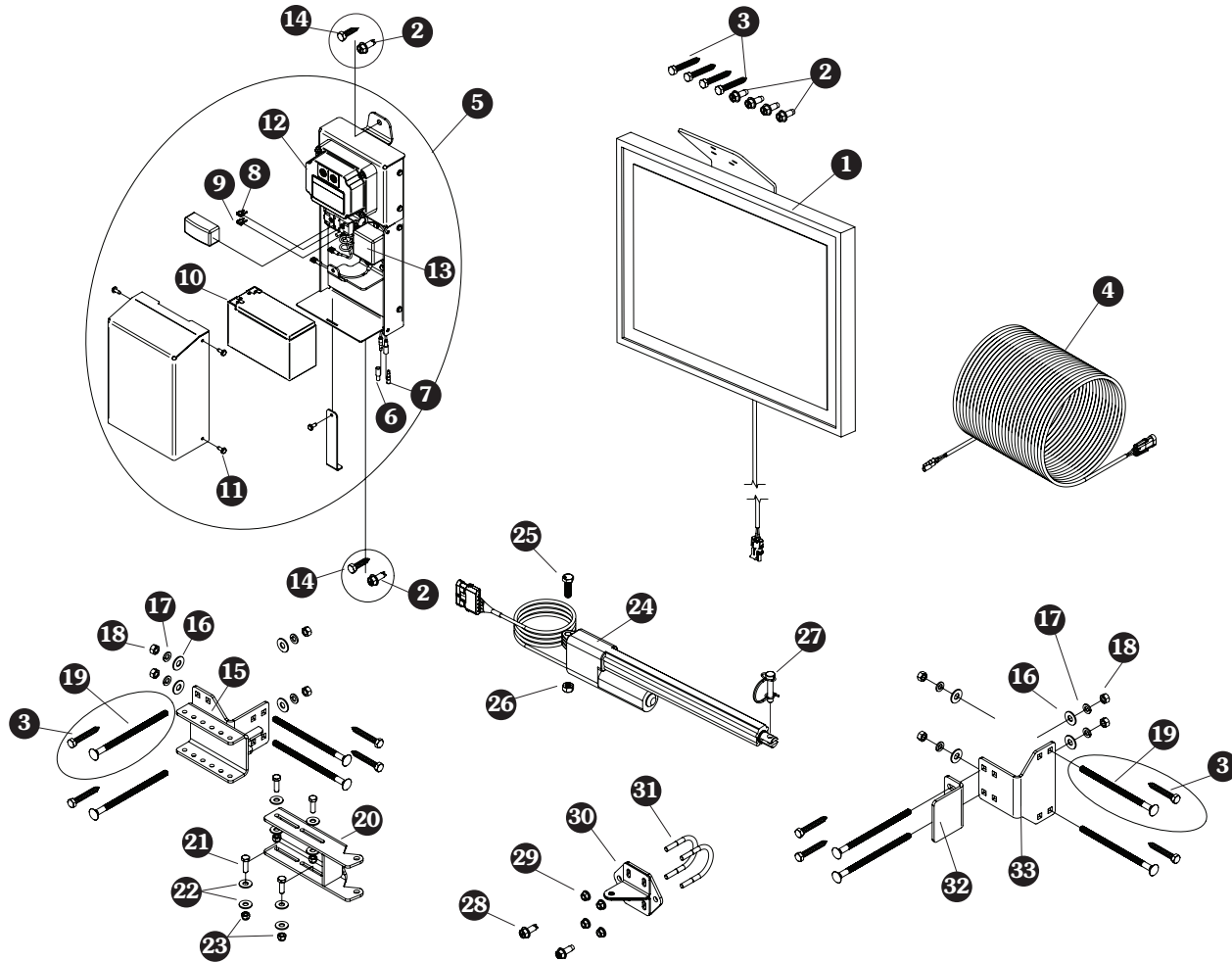
**STEP 7:** Verify system operation. Using buttons on control box, fully open and fully close gate. Actuator will automatically shut off when gate hits post.

**NOTE:** Gate should always be in contact with sturdy post when not in use, especially if livestock can come into contact with gate. Bracketry can be bent if gate is stopped mid-travel and livestock come in contact with gate.

**NOTE:** System will shut off mid-travel if gate hits an obstruction and gate speed is reduced to pre-set level.

**REMOTE CONTROL**

**STEP 8:** Remote(s) included in kit should already be paired to control box by factory. Simply open remote lid and press *open* or *close* button to operate system. See instructions included with remote for additional information.



Item	Part #	Description
1.	1127657	20-Watt Solar Panel w/Bracket
2.	1700400	Self-Tapping Screw - 3/8" x 1" - For Metal Posts
3.	1706066	Lag Screw - 3/8" x 2-1/2"
4.	1127661	Solar Panel Extension Cable - 60' x 18AWG
5.	1127660	Swing Gate Control Box
6.	1704885	Bullet Connector - Female - .180" x 18AWG
7.	1705093	Bullet Connector - Male - .180" x 18AWG
8.	1705154	Mini Fuse - 10 Amp
9.	1706024	Mini Fuse - 15 Amp
10.	1706022	Battery - 12V - VRLA - 7 Amp-Hour
11.	1704308	Hex Flange Cap Screw - #10-24 x 1/2"
12.	1127656	SMART3™ Electronic Control Module
13.	1128057	Swing Gate Solar Controller
14.	1706065	Lag Screw - 3/8" x 1-1/2"
15.	1127905	Hinge Post Fixed Bracket
16.	1700429	Flat Washer - 3/8"
17.	1700434	Lock Washer - 3/8"
18.	1700407	Hex Nut - 3/8"

Item	Part #	Description
19.	1706073	Carriage Bolt - 3/8" x 7" - For Metal Posts
20.	1127908	Hinge Post Slide Bracket
21.	1704416	Cap Screw - 5/16" x 1"
22.	1700428	Flat Washer - 5/16"
23.	1700419	Hex Nut - 5/16"
24.	1127655	Linear Actuator
25.	1706072	Cap Screw - M10 x 35mm
26.	1705361	Hex Nut - M10
27.	1704427	Wire Lock Pin - 3/8" x 1-3/4"
28.	1700400	Self-Tapping Screw - 3/8" x 1"
29.	1704931	Flanged Nylock Hex Nut - 5/16"
30.	1127898	Gate Bracket
31.	1706068	U-Bolt - 5/16" x 1-1/2" ID
	1706070	U-Bolt - 5/16" x 1-3/4" ID
	1706071	U-Bolt - 5/16" x 2" ID
32.	1127902	Stop Plate
33.	1127904	Stop Plate Mounting Bracket







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