

P/N 1123574 Rev. C



SMARTwire™ Hopper Door Opener

READ BEFORE INSTALLING

PO BOX 713 = 2309 SHUR-LOK STREET = YANKTON, SD 57078-0713 PHONE 1-800-4-SHUR-LOK (1-800-474-8756) = FAX 605-665-0501 www.shurco.com

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SHIPPING. Orders are shipped F.O.B. from the Shur-Co®. LLC sites listed below. No full freight is allowed or prepaid shipment accepted unless quoted and approved in writing prior to acceptance of the order. All shipments are made by the most reasonable means in accordance with size and weight of order, unless specified routing instructions are furnished by the customer. Shipments are made daily via U.P.S. and common carrier. Claims for shortages must be made within 10 days. All claims for damages or loss in transit must be made with the carrier. No collect calls will be accepted. To ensure delivery of orders, we need your full street address and phone number. When you receive your shipment, examine it carefully. Be sure all cartons listed on the delivery sheet are accounted for. Large items may be packaged separately. If a carton is damaged, open it and inspect the contents before signing for delivery. If merchandise is damaged, describe damage on the delivery receipt. Failure on your part to document damaged or missing merchandise on the delivery receipt releases the carrier of all liability; repair or replacement will be the customer's responsibility.

WARRANTY. We warrant all new products are free of defects in materials and workmanship.* This warranty is effective if products are properly installed and used for the purpose for which they were intended and applies to the original buyer only. Except as set forth above or in any product-specific warranty documentation, we make no other warranties, express or implied, including but not limited to warranties of merchantability of fitness for a particular use.

Returns of a product for warranty must be accompanied by a Return Merchandise Authorization number (RMA#), obtained by 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 conjuction 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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SHUR-CO® UK, Ltd.

Unit 41 Rochester Airport Estates Laker Rd., Rochester, Kent ME1 3QX Ph +44 (0)1795.473499 Fax +44 (0)871.272.8278

MESSAGE TO OWNERS

Thank you for buying this tarping system 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 tarping system and/or personal injury. Your trailer requirements may, however, call for minor variations to these instructions.

Please inspect your tarping 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 locaitons on your tarping 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.

RUST PREVENTION

To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting, with corrosion-resistant paint.

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| ProTrap® Mounting & Wiring | 6-6 |
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TOOLS REQUIRED

- 1. Carpenter's Square
- 2. Plumb Line
- 3. Drill
- 4. 3/16" Drill Bit
- 6. 3/8" Drill Bit
- 7. 5/16" Drill Bit
- 8. 7/8" Drill Bit
- 9. #3 Phillips Insert Bit
- 10. 5/16" Combination Wrench
- 11. 3/8" Combination Wrench
- 12. 10 mm Combination Wrench
- 13. Tape Measure
- 14. Hack Saw (metal cutter)
- 15. 1/2" Combination Wrench
- 16. 9/16" Combination Wrench
- 17. 15/16" Combination Wrench
- 18. Air or Electric Impact Wrench (9/16" socket)
- 19. 7/16", 1/2" & 9/16" Sockets
- 20. Ratchet
- 21. Wire Cutters
- 22. 1" Combination Wrench
- 23. Flat Head Screwdriver
- 24. Pencil or Marker
- 25. Wire Terminal Crimper
- 26. 5/16" Allen Wrench (provided)

WARNING

- MOVING PARTS HAVE PINCH POINTS AND ENTANGLEMENT AREAS.
- STAY CLEAR OF DOOR AND MECHANISMS WHEN OPERATING.
- FAILURE TO COMPLY CAN CAUSE INJURY OR DEATH.

A

CAUTION



- JAMMED OR OVERLOADED DOOR CAN CAUSE MOTOR DAMAGE.
- RELEASE SWITCH IMMEDIATELY IF DOOR STALLS OR REACHES END OF INTENDED TRAVEL.
- FAILURE TO COMPLY CAN CAUSE MOTOR AND EQUIPMENT DAMAGE.

P/N 1704341

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





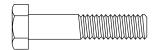
1704338 Self-Tapping Screw - 1/4" x 1"





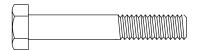
1701045 Cap Screw - 5/16" x 3/4"





1703487 Cap Screw - 5/16" x 1 1/2"





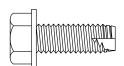
1705083 Cap Screw - 5/16" x 2"





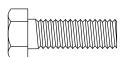
1705476 Socket Hd. Cap Screw - 3/8" x 1/2"





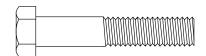
1700400 Self-Tapping Screw - 3/8" x 1"





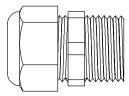
1702904 Cap Screw - 3/8" x 1 1/8"





1704264 Cap Screw - 3/8" x 2"

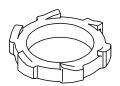




1704152 Dome Nut - 1/2"

Inspect all parts in yourAutoTrap™ kit upon arrival.





1704187 Lock Nut - 1/2"





1700419 Nylon Lock Nut - 5/16"





1704946 Flanged Top Lock Nut - 5/16"





1700407 Hex Nut - 3/8"





1701580 Nylon Lock Nut - 3/8"





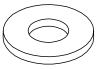
1700427 Flat Washer - 1/4"





1700434 Lock Washer - 3/8"



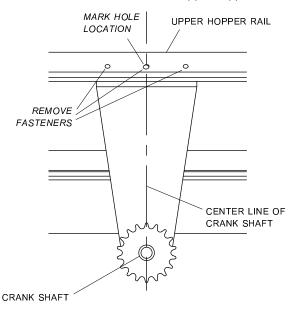


1700429 Flat Washer - 3/8"

NOTE: AutoTrap™ system designed for use with rack and pinion hopper doors only.

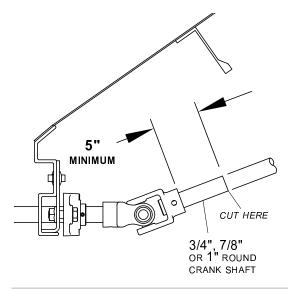
AutoTrap™ system designed for use with 1", 7/8" or 3/4" diameter crank shafts.

STEP 1: To determine AutoTrap™ hinge bracket location, transfer center line of crank shaft to upper hopper rail. If there is not already a hole drilled at center line, mark new hole location on upper hopper rail.

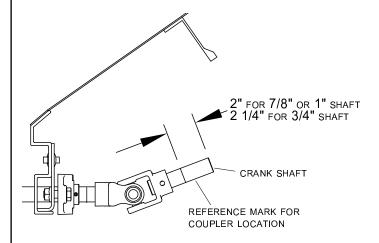


NOTE: Existing crank shaft must be cut in order to connect to new drive shaft on hopper opener.

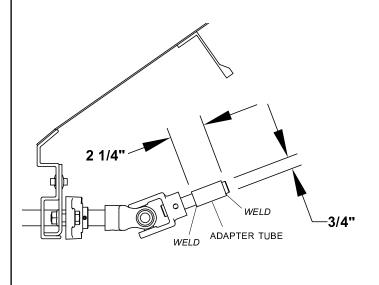
STEP 2: Measure and mark crank shaft minimum of 5" past U-joint. Cut through shaft at marked location. Remove and discard existing manual crank bracket and hardware.

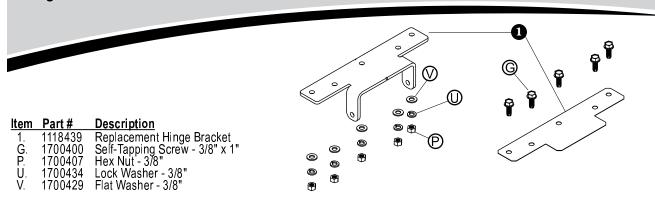


- STEP 3: Measure diameter of crank shaft. AutoTrap™ hopper opener will connect to 3/4", 7/8" and 1" round crank shafts using standard adapter included in kit. For other size crank shafts or square/hex-shaped shafts, modify crank shaft or use special adapter as needed.
- STEP 4: Determine location to install crank coupler. For 7/8" and 1" round shafts, measure and mark 2" from end of crank shaft. For 3/4" round shafts, measure and mark 2 1/4" from end of shaft.



STEP 5: 3/4" shafts only. Slide 1" adapter tube (3/4" inside diameter) over end of 3/4" shaft, aligning with mark made in step 4. Weld adapter tube to crank shaft. Grind smooth any welds that will interfere with sliding coupler onto shaft. Paint welds and adapter tube to prevent corrosion.



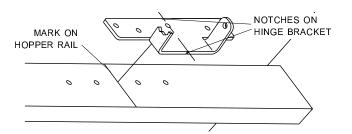


STEP 1: Determine AutoTrap™ hinge bracket location on hopper rail. Mount hinge bracket on upper rail for most applications; mount bracket on lower rail when required. Hinge bracket may be mounted on top or bottom of rail, depending on application.

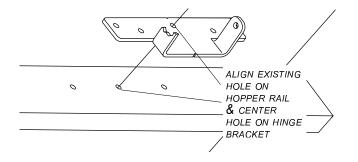
NOTE: Verify center mark made previously on hopper rail is also centered and square with hopper door cross shaft. If not, adjust accordingly.

If no existing holes on hopper rail align with center of crank shaft: Align notches on hinge bracket with mark on hopper rail (marked in step 2 of previous section).

NOTE: Notches on bracket must align with center line of crank shaft/cross shaft.

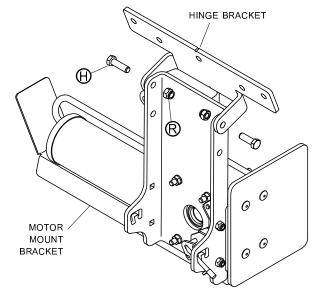


If existing hole on hopper rail aligns with center of crank shaft: Align center hole in hinge bracket with this hole on hopper rail.

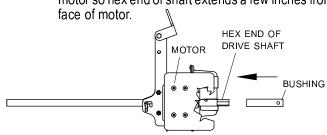


NOTE: Do not fasten hinge brackets to rail at this time.

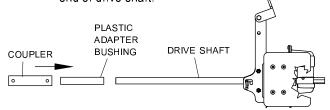
STEP 2: Assemble hinge bracket to motor mount bracket so hinge bracket will mount to hopper rail as determined in step 1. Fasten with screws ① and lock nuts ①, leaving fasteners loose enough so bracket can still rotate freely. Fasteners will be tightened securely after drive shaft has been installed.



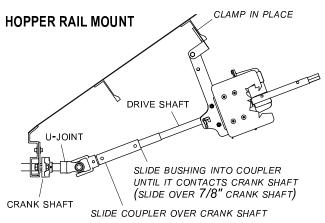
STEP 3: Slide motor adapter bushing and drive shaft into motor so hex end of shaft extends a few inches from

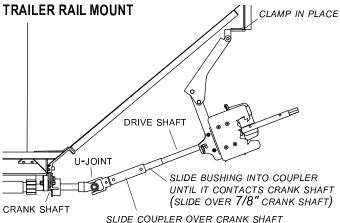


STEP 4: Slide coupler and plastic adapter bushing onto other end of drive shaft.

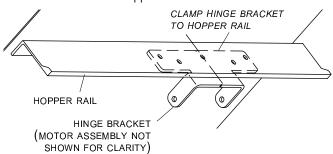


STEP 5: With help of another person, align drive shaft with crank shaft. Slide coupler over crank shaft and against U-joint (for 7/8" diameter crank shaft, slide plastic adapter bushing over crank shaft). Slide bushing inside coupler until it contacts crank shaft.





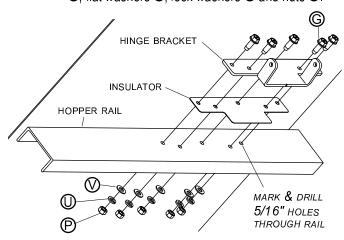
STEP 6: Lift hinge bracket/motor assembly to predetermined location on hopper rail. Keep drive shaft as far into coupler as it will go and allow motor assembly to slide on drive shaft as it moves into position. Clamp hinge bracket to hopper rail.



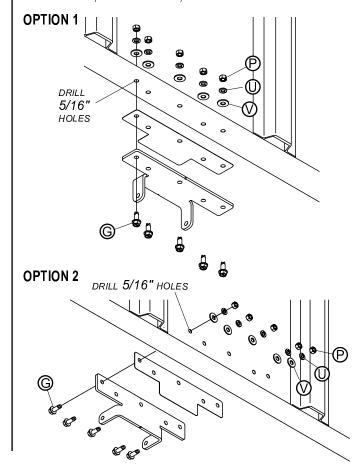
NOTE: Hole in drive shaft will extend past motor. This will be adjusted later.

NOTE: It may be necessary to adjust hinge bracket slightly toward either side of center mark so hinge bracket will line up and sit flat on hopper rail.

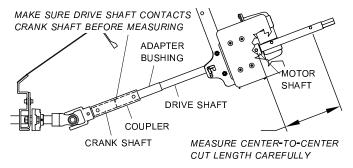
STEP 7A: Hopper rail mount. Using hinge bracket as guide, mark and drill 5/16" holes. Slide insulator between rail and hinge bracket and fasten to rail with screws (a), flat washers (b), lock washers (c) and nuts (c).



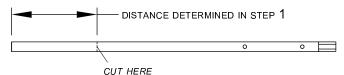
STEP 7B: Trailer rail mount. Using hinge bracket as guide, mark and drill 5/16" holes. Slide insulator between rail and hinge bracket and fasten to rail with screws ①. flat washers ①. lock washers ① and nuts ②.



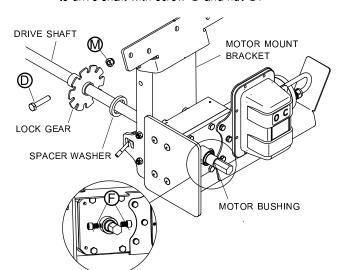
STEP 1: Cut drive shaft to fit. Insert drive shaft into coupler as far as possible, so end of shaft contacts crank shaft. Carefully measure center-to-center distance between hole in motor shaft and hole in drive shaft. This distance determines how much needs to be removed from coupler end of shaft.



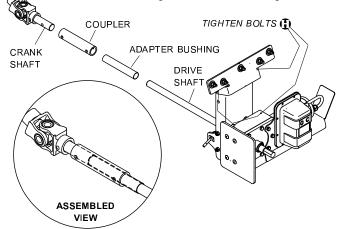
STEP 2: Remove drive shaft from motor. Measure and mark shaft at determined distance from coupler end of shaft and cut shaft squarely at this location.



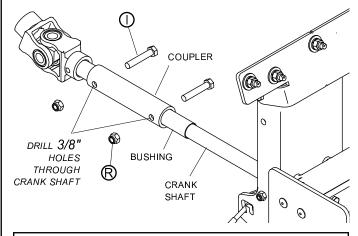
STEP 3: Make sure motor bushing is in motor and hole in bushing aligns with hole in motor. Place spacer washer over short end of manual lock gear hub and hold manual lock gear hub and washer against back of motor mount bracket with hub aligned with motor shaft. Slide drive shaft through front side of motor and bushing, then through spacer washer and lock gear. Fasten drive shaft to motor with screws ① Lubricate screws with anti-seize (provided) before installing. Fasten lock gear to drive shaft with screw ① and nut ②.



STEP 4: Slide coupler and adapter bushing onto drive shaft. Align drive shaft with crank shaft and slide coupler over crank shaft. Slide adapter bushing into coupler until bushing contacts crank shaft (for 7/8" crank shaft, until bushing is completely inside coupler). Tighten bolts ① connecting motor bracket to hinge bracket.



STEP 5: Align lower end of coupler with mark on crank shaft (see page 2, step 4) about 2" from end of shaft (if both shafts are 7/8" diameter, bushing should be over both shafts and completely inside coupler). Use holes in coupler as guide and carefully align and drill 3/8" holes through crank shaft, bushing and drive shaft. Fasten with screws • and lock nuts •.

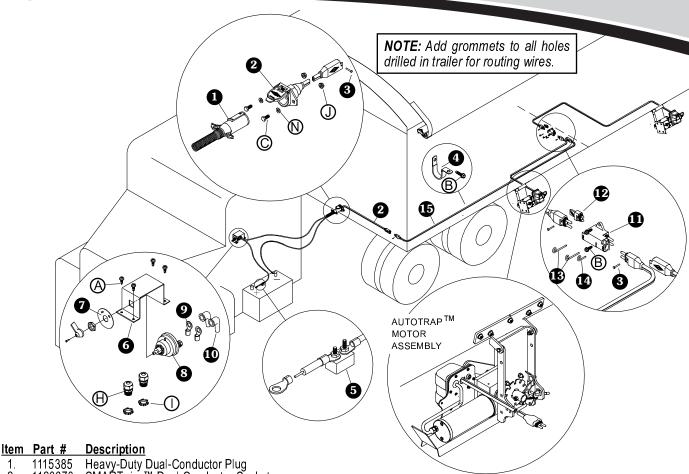


TIP: To help align drill bit, drill halfway through shaft on each side of coupler. Temporarily place 3/8" bolt in halfway drilled hole to keep coupler from rotating while drilling opposite side.

STEP 6: Tighten coupler fasteners and verify all fasteners used in installation have been tightened.



Make sure manual lock pin is disengaged before operating system or it may be damaged. See page 9 for details.



Heavy-Duty Dual-Conductor Plug SMARTwire™ Dual-Conductor Socket 2. 3. 1120670 1704751 Harness Lock Pin - 1/4" x 7/8' 1702108 Wire Clip - 3/4" 40-Amp Modified-Reset Circuit Breaker 1704354 6 7 1118323 Disconnect Switch Mounting Bracket 1704284 Face Plate 8. 1704283 Battery Disconnect Rotary Switch 9. 1703244 Ring Terminal - 6 Ga. x 3/8" Stud 1704330 10. Rubber Insulating Boot Harness Junction Block - Black Rubber 11. 1704695 12. 1704717 Wire Harness Rubber Plug - Black Harness Lock Pin - Long 13. 1704696 Harness Lock Pin - Short 14. 1704711 SMARTwire™ - 6 Ga. x 25' - Plug/Socket 15. Cable Tie - 8" (not shown) Self-Drilling Screw - 1/4" x 3/4" 1703231 1700398 Self-Tapping Screw - 1/4" x 1" В. 1704338 1701045 Cap Screw - 5/16" x 3/4" Dome Nut - 1/2" 1704152

NOTE: Cut wires to length and strip only enough wire insulation to install ring terminals. Insert bare wire into ring terminals and crimp securely.

Lock Nut - 1/2

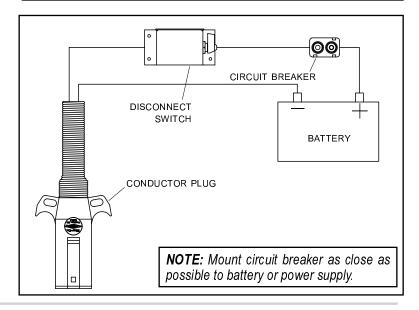
1704946 Flanged Top Lock Nut - 5/16" 1700427 Flat Washer - 1/4"

1704187

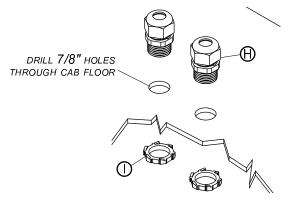


A NOTICE

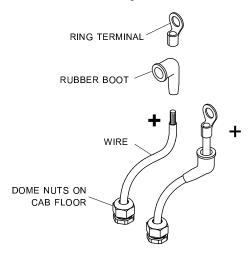
Do not power any Shur-Co® wireless system with battery charger alone, as this will likely cause system abnormalities and/or system malfunction. Instead, use a 12-volt truck/automobile battery to provide power to trailer.



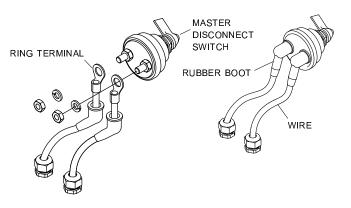
STEP 1: Drill two 7/8" holes in cab floor to route wire into cab. Install dome nut strain reliefs into holes.



Run positive 4-ga. wire from battery through dome nuts on cab floor. Run wire ends through rubber boots and crimp 3/8" ring terminals to ends of wire.

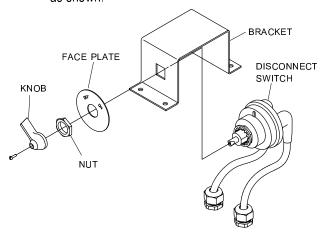


STEP 3: Connect wires to disconnect switch. Coat with dielectric grease and install rubber boots over ring terminals.

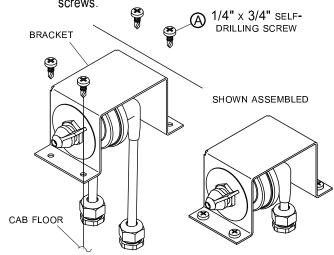


NOTE: Use dielectric grease (P/N 1704378) to prevent corrosion on terminals.

STEP 4: Remove knob and nut from disconnect switch and assemble face plate and disconnect switch to bracket as shown.

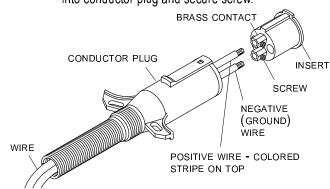


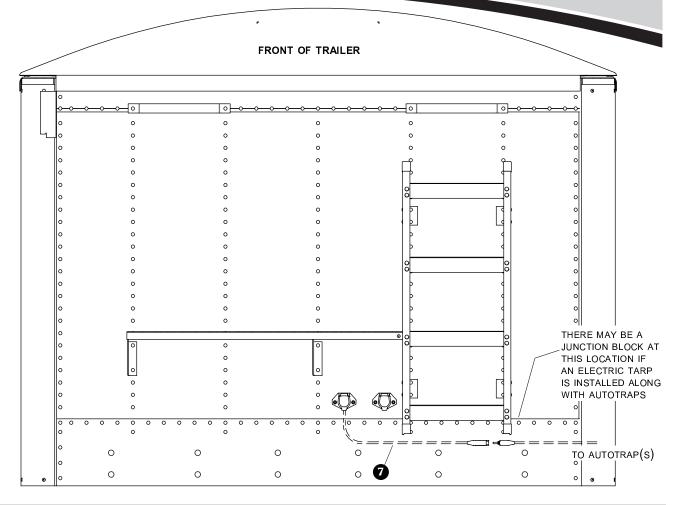
STEP 5: Fasten bracket to cab floor with 1/4" x 3/4" self-drilling



NOTE: AutoTrap^{TM} rocker switch will remain active until master disconnect switch is turned off.

STEP 6: Unfasten and remove insert from conductor plug. Feed 4-ga. wire through plug and into brass contacts on insert. Tighten screws to secure wires. Replace insert into conductor plug and secure screw.

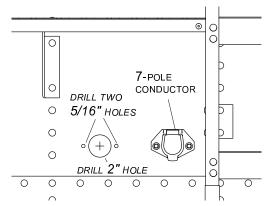




NOTE: Wire lengths are predetermined. Before installing SMARTwire™ components, review and confirm wire routing so that wires will reach components with ample room for connection.

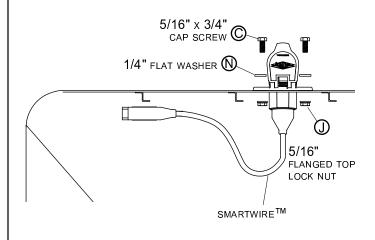
DUAL-POLE CONDUCTOR SOCKET INSTALLATION

STEP 1: Locate dual-pole conductor socket near 7-pole conductor socket as shown. Determine location and drill 2" hole through trailer skin.



STEP 2: Align socket over 2" hole. Using holes in flanges on socket as guide, mark and drill two 5/16" holes.

STEP 3: Fasten conductor socket to trailer with 5/16" x 3/4" cap screws, flat washers and nuts.



Operation P/N 1123574 Rev. C



CAUTION

Check all hardware for complete assembly before operating. Inspect system at this time and adjust as required.

Operation:

Close Trap: Push switch to "CLOSE" and hold. Observe trap and release switch when trap is fully closed.

Open trap: Push switch to "OPEN" and hold. Observe trap and release switch when trap is fully open.

Remote operation: Refer to operating instructions included with remote.

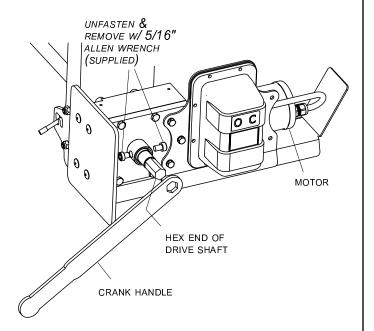
NOTE: Release switch at end of cycle or modified-reset circuit breaker will trip. After breaker resets, switch will activate motor again. To reduce unnecessary strain on components, release switch at end of each cycle. SMART2™ systems will automatically turn off at **OPEN** or **CLOSE** side travel limit after having been set. Refer to operating instructions included with SMART2™ remote.

NOTE: Receiver may be pressure washed, but keep nozzle at least 3' from system while spraying.

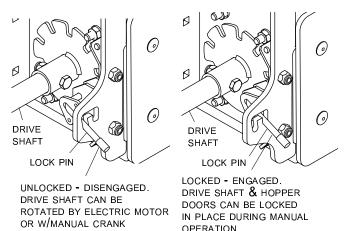
CONVERSION TO MANUAL CRANK

STEP 1: To change from electric to manual operation, unfasten and remove fasteners connecting motor to drive shaft. Slide back-up crank handle onto hex end of drive shaft. Remove crank handle when not in use.

NOTE: Any 3/4" wrench or ratchet/socket may be used in place of crank handle.



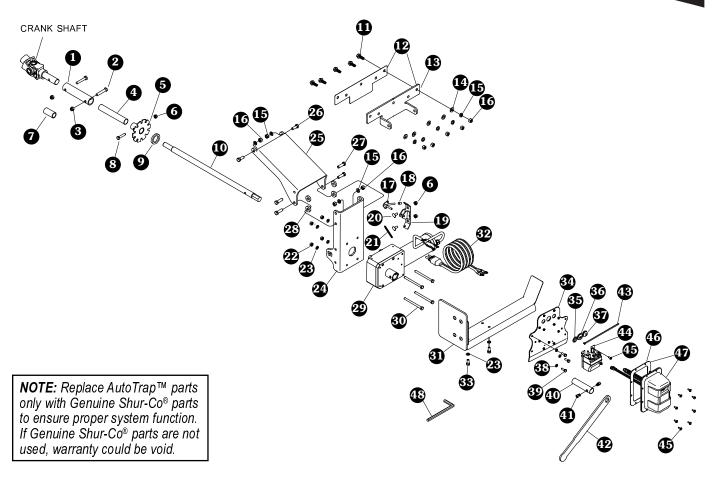
STEP 2: Manual lock pin must be disengaged during electric operation. To lock drive shaft during manual operation, lift handle on lock pin and slide pin into notch in lock gear as shown at right.



A

CAUTION

Do not operate electric system while lock pin is engaged and drive shaft is locked or manual lock mechanism could be damaged. P/N 1123574 Rev. C



| AUTOTRAP™ WIRELESS ASSEMBLY <u>Item Part #</u> | | | Description | |
|--|---------|--|-------------|--|
| | | <u>Description</u> | 25. 1123895 | Rail Mount Bracket - Auto Trap™ |
| 1. | 1123567 | | 26. 1701061 | Cap Screw - 3/8" x 1" |
| 2. | 1704264 | Cap Screw - 3/8" x 2" | 27. 1702891 | Cap Screw - 3/8" x 1 1/4" |
| 3. | 1701580 | Nylon Lock Nut - 3/8" | 28. 1120291 | Spacer Washer - 1/4" x 1" |
| 4. | 1705226 | Adapter Bushing990" OD x .895" ID x 6" | 29. 1124438 | Electric Motor |
| 5. | 1123565 | Manual Lock Gear | 30. 1705230 | Cap Screw - 5/16" x 4" |
| 6. | 1700419 | Nylon Lock Nut - 5/16" | 31. 1124858 | AuṫoTrap™ Debris Deflector |
| 7. | 1123569 | Shaft Adapter - 3/4" to 1" | 32. 1704716 | SMARTwire™ - 6 Ga. M x 1/4" Ring - 10' |
| 8. | 1703487 | Cap Screw - 5/16" x 1 1/2" | 33. 1701045 | Cap Screw - 5/16" x 3/4" |
| 9. | 1118318 | Spacer Washer - 1/4" x 1.81" | 34. 1124846 | Solenoid Bracket |
| 10. | 1124697 | Drive Shaft - 7/8" OD - 3/4" Hex End - 27" | 35. 1705258 | Button Plug - Flush - 11/16" |
| 11. | 1700400 | Self-Tapping Screw - 3/8" x 1" | 36. 1704721 | Rubber Grommet - Wire Slot |
| 12. | 1118439 | Replacement Hinge Bracket | 37. 1705115 | Push-In Rubber Grommet |
| 13. | 1118277 | Shim Insulator | 38. 1700436 | Lock Washer - 1/4" |
| 14. | 1700429 | Flat Washer - 3/8" | 39. 1703959 | Cap Screw - 1/4" x 3/4" |
| 15. | 1700434 | Lock Washer - 3/8" | 40. 1705480 | Motor Bushing990" x 4 3/16" |
| 16. | 1700407 | Hex Nut - 3/8" | 41. 1705476 | Socket Hd. Cap Screw - 3/8" x 1/2" |
| 17. | 1123557 | Lock Pin | 42. 1123568 | Crank Handle |
| 18. | 1704276 | Protective Cap | 43. 1703231 | Cable Tie - 8" |
| 19. | 1123554 | Lock Pin Bracket | 44. 1704312 | Motor-Reversing Solenoid - 3 Point Mount |
| 20. | 1705231 | Carriage Bolt - 5/16" x 3/4" - Grade 5 | 45. 1704308 | Flanged Cap Screw - #10 x 1/2" |
| | 1704904 | Extension Spring - 7/32" x 1 5/16" | 46. 1704309 | Gasket - Solenoid Cover |
| | 1700411 | Hex Nut - 5/16" | 47. 1123774 | |
| | | Lock Washer - 5/16" | 1123775 | Solenoid Cover Assembly w/Gasket - SMART2™ |
| | 1123553 | Motor Mount Bracket - AutoTrap™ | 48. 1705479 | Allen Wrench - 5/16" |

P/N 1123574 Rev. C

AUTOTRAP™ TRAILER MOUNTS

Item Part # Description

For Dakota Trailer

1118337 Hopper Parts Kit

1118305 Bearing Retainer - Dakota

2. 1118306 Door Stop - Dakota

3. 1700400 Self-Tapping Screw - 3/8" x 1"

4. 1700434 Lock Washer - 3/8"

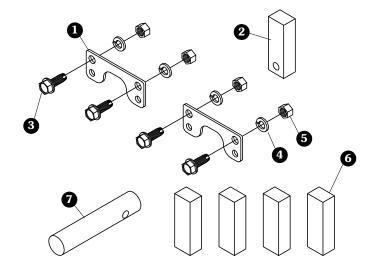
5. 1700407 Hex Nut - 3/8"

For Trailer w/Auxiliary Stops

6. 1118338 Hopper Parts

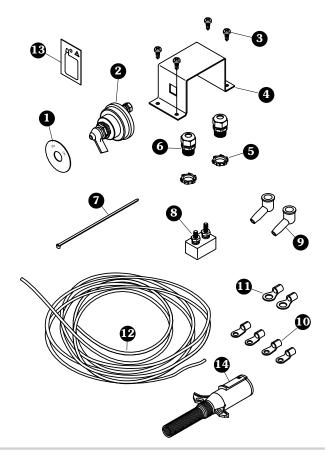
For Cornhusker Trailer

7. 1118339 Hopper Parts

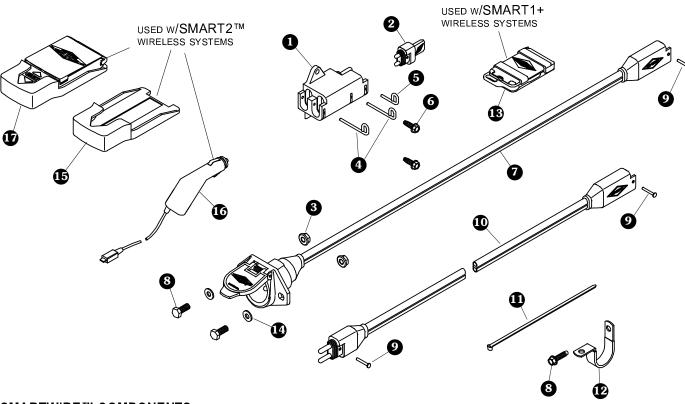


MASTER DISCONNECT SWITCH/CAB WIRING

Item Part # Description 1122725 Cab Wiring Kit - Master Disconnect 1704284 Face Plate 2. 1704283 Battery Disconnect Rotary Switch Self-Drilling Screw - 1/4" x 3/4" Disconnect Switch Mounting Bracket 1700398 1118323 Lock Nut - 1/2" 1704187 6. 1704152 Dome Nut - 1/2" 7. 1703231 Cable Tie - 8" 40-Amp Modified-Reset Circuit Breaker 1704354 Rubber Insulating Boot Ring Terminal - 4 Ga. x 3/8" Stud Ring Terminal - 4 Ga. x #10 Stud 1704330 1705105 10. 11. 1705106 12. 1705107 Dual-Conductor Wire - 4 Ga. 133 Strand (per foot) 13. 1704378 Dielectric Connector Protector 14. 1115385 Heavy-Duty Dual-Conductor Plug



P/N 1123574 Rev. C Replacement Parts



SMARTWIRE™ COMPONENTS

| ltem | Part # | Description |
|------|---------|--|
| 1 | 1704695 | |
| 2. | 1704717 | Wire Harness Rubber Plug |
| 3. | 1704946 | Flanged Top Lock Nut - 5/16" |
| 4. | 1704696 | Harness Lock Pin - Long |
| 5. | 1704711 | Harness Lock Pin - Short |
| 6. | 1704338 | Self-Tapping Screw - 1/4" x 1" |
| 7. | 1120670 | SMARTwire ™ Dual-Conductor Socket |
| 8. | 1701045 | Cap Screw - 5/16" x 3/4" |
| 9. | 1704751 | Harness Lock Pin - 1/4" x 7/8" |
| 10. | 1704888 | SMARTwire™ - 4 Ga. x 25' - Plug/Socket |
| 11. | 1703231 | Cable Tie - 8" |
| 12. | 1702108 | Wire Clip - 3/4" |
| 13. | 1123160 | SMART1+™ Remote - 5-Channel |
| 14. | 1700427 | Flat Washer - 1/4" |
| 15. | 1704957 | SMART2™ Transmitter Cradle |
| 16. | 1704958 | SMART2™ Transmitter Charger Cable |
| 17. | 1122231 | SMART2™ Transmitter Remote w/Cradle |

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 - Cable-Lok™
 - Turning Point™ Bow
- SMARTrailer[™] Accessories for Agriculture Products
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 - SMART1 + TM Remote
 - 4500 Series HD Electric
 - AutoTrap™ Hopper Opener
 - ProTrap® Hopper Opener
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 - HyTower DL
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