

# SHUR-CO®

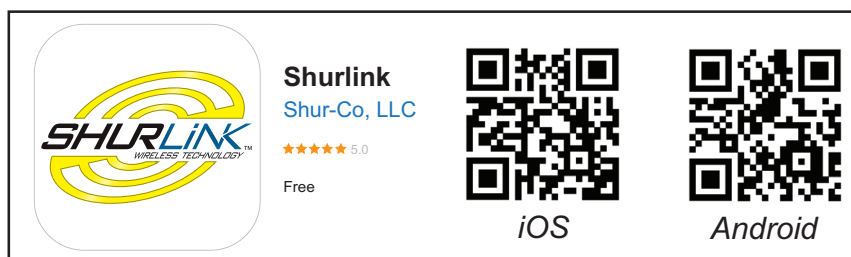


## Durabuilt™ Electric Upgrade for Cable-Lok™ Systems

# OWNER'S MANUAL



Download the ShurLink™ App




PHONE: 1.866.748.7435 | FAX: 1.605.665.0501

2309 SHURLOCK STREET | YANKTON, SD 57078-0713

[www.SHURCO.com](http://www.SHURCO.com)

**SAFETY INSTRUCTIONS**

At Shur-Co®, your safety is our top priority. Please read and thoroughly understand all instructions before operating all equipment. Failure to READ AND FOLLOW INSTRUCTIONS may result in system failure, property damage, or personal injury. Pay close attention to warnings, cautions, and operating instructions. The hazard symbol  alerts users of potentially hazardous conditions, and is followed by Caution, Warning, or Danger messages to indicate risk:

- **Danger** : (Red) Indicates an imminently hazardous situation that, if not avoided, **WILL** result in death or serious injury.
- **Warning** : (Orange) Indicates a potentially hazardous situation that, if not avoided, **COULD** result in death or serious injury.
- **Caution** : (Yellow) Indicates a potentially hazardous situation that, if not avoided, **MAY** result in minor or moderate injury or damage to the system.
- **Notice** : (Blue) Indicates operational notes or other essential information without addressing safety.

Regularly inspect equipment to ensure proper performance. Always repair or replace worn or damaged parts immediately to maintain safety. Safety decals are placed at critical locations on the equipment. Keep these decals clean and legible at all times. Replace any decal that is worn, damaged, painted over or otherwise unreadable. Replacement decals can be obtained by your local Shur-Co® dealer.

- Always wear safety glasses during installation and operation.
- Stay clear of moving parts.
- No other use of Shur-Co® equipment is authorized, except as designed.

**SHUR-CO® TERMS OF SERVICE****ORDER  
TERMS AND CONDITIONS****WARRANTY****PATENTS****SERVICE AND DISTRIBUTION CENTERS**

[www.shurco.com/about-us/corporate-locations/](http://www.shurco.com/about-us/corporate-locations/)

**LOCATIONS**

## MESSAGE TO OWNERS

Thank you for choosing Shur-Co® for your tarping system needs. We appreciate your confidence in our products. Please note that while this manual provides comprehensive installation and operation instructions, your trailer may require minor adjustments to these guidelines.

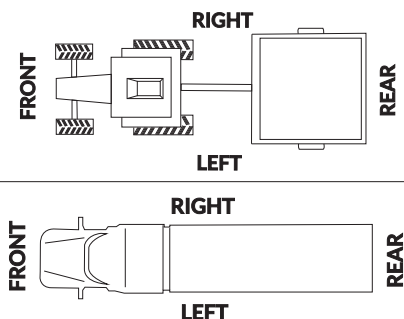
Visit [Shurco.com](http://Shurco.com) to access the most current version of these instructions and other important product information.

**QUESTIONS?**  
CALL OUR HELP LINE:  
**1-866-748-7435**  
MONDAY-FRIDAY  
8 AM-5 PM CENTRAL TIME

## MAINTENANCE

- Spray all bearings with penetrating oil as needed.
- Grease spring bearings as needed.
- Brush springs with a steel brush weekly to remove dirt, and spray with penetrating oil.
- Tighten loose bolts.
- Make sure arms are not hitting sides of box. Replace damaged/bent arms.
- Replace worn or broken springs.
- Replace/repair worn or damaged tarps.

## VEHICLE ORIENTATION

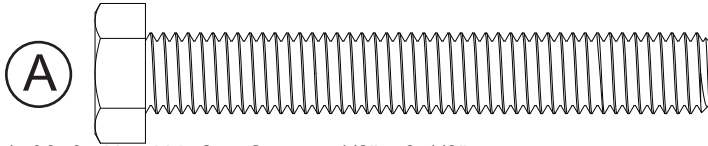


## REQUIRED TOOLS

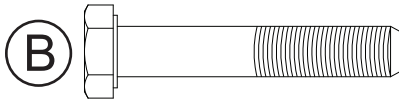
- Tape Measure
- Pencil
- Clamps
- Grinder or Metal File
- Air or Electric Impact
- 1/2" Combination Wrench, 1/2" Socket
- 5/16" Combination Wrench, 5/16" Socket
- 7/16" Combination Wrench, 7/16" Socket
- 9/16" Combination Wrench, 9/16" Socket
- 3/4" Combination Wrench, 3/4" Socket
- 3/8" Socket
- Electric Drill
- #3 Phillips Insert Bit
- 7/32", 5/16", 3/8", 1/2", 1/4" Drill Bit
- Wire Cutters & Crimping Tool
- 2" Hole Saw (conductor socket without bracket)
- Hack Saw (metal cutter)

*PLEASE READ THE COMPLETE MANUAL BEFORE  
PROCEEDING WITH INSTALLATION OR USE OF THE TARPING SYSTEM.*

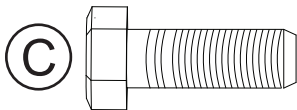
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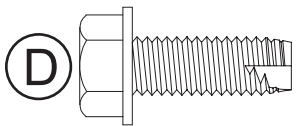
1706597 Hex Hd. Cap Screw - 1/2" x 3-1/2"  
 1706005 Hex Hd. Cap Screw - 1/2" x 3-1/2" - SS



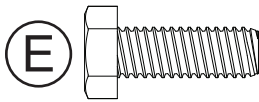
1701468 Hex Head Cap Screw - 5/16" x 1-3/4"  
 1704334 Hex Head Cap Screw - 5/16" x 1-3/4" - SS



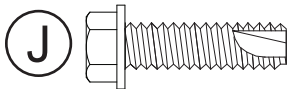
1703579 SS Hex Head Cap Screw - 3/8" x 1"



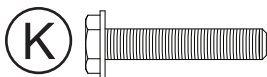
1700400 Self-Tapping Screw - 3/8" x 1"



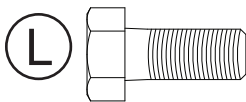
1704430 SS Cap Screw - 5/16" x 1"



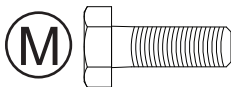
1706120 Self-Tapping Screw - 1/4" x 1"



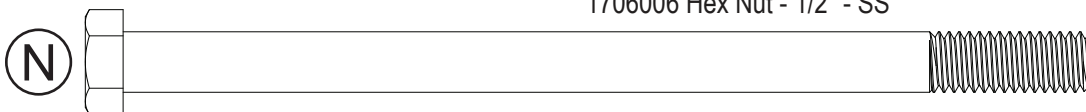
1704905 Hex Flange Cap Screw - #10 x 1"



1701045 Hex Head Cap Screw - 5/16" x 3/4"  
 1201269 Hex Head Cap Screw - 5/16" x 3/4" - SS



1703959 Hex Hd. Cap Screw - 1/4" x 3/4"



1706093 Hex Head Cap Screw - 3/8" x 6"



1808844 Nylon Lock Nut - #10



1701543 Nylon Lock Nut - 1/4"



1704297 Nylon Lock Nut - 5/16"  
 1704431 Nylon Lock Nut - 5/16" - SS



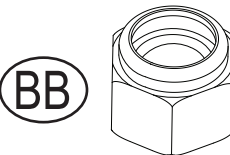
1704946 Top Lock Flange Nut  
 - 5/16"



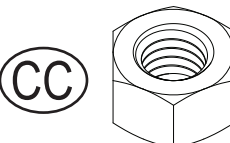
1700407 Hex Nut - 3/8"



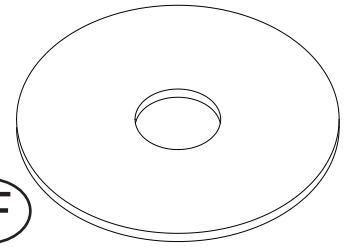
1705648 SS Nylon Lock Hex Nut - 3/8"



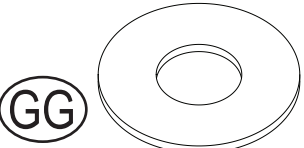
1702115 Nylon Lock Hex Nut - 1/2"  
 1706088 Nylon Lock Hex Nut - 1/2" - SS



1700409 Hex Nut - 1/2"  
 1706006 Hex Nut - 1/2" - SS



1706097 Fender Washer - 1/2"  
 1706096 Fender Washer - 1/2" - SS



1702114 Flat Washer - 1/2"  
 1703620 Flat Washer - 1/2" - SS



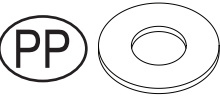
1703577 SS Flat Washer - 3/8"



1700434 Lock Washer - 3/8"



1700433 Lock Washer - 5/16"  
 1201241 Lock Washer - 5/16" - SS



1201237 SS Flat Washer - 5/16"



1700427 Flat Washer - 1/4"

Item	Part #	Description
1.	1133057	Sealed Durabuilt™ Motor
2.	1130445	Upper Pivot Arm - Durabuilt™ - SS
	1118224	Upper Pivot Arm - Durabuilt™
3.	1127979	Lower Pivot Arm - 60" - SS
	1129986	Lower Pivot Arm - 60"
	1115558	Lower Pivot Arm - 80" - SS
	1127970	Lower Pivot Arm - 64" - SS
4.	1118221	Motor Extension
5.	1100306	Bushing - 11/16"
6.	1127959	Stainless Spacer Tube - .84" OD x .55" ID x 1-1/4"
7.	1701595	End Plug - 1"
A.	1706005	Hex Head Cap Screw - 1/2" x 3-1/2" - SS
	1706597	Hex Head Cap Screw - 1/2" x 3-1/2"
B.	1704334	Cap Screw - 5/16" x 1 3/4" - SS
	1701468	Cap Screw - 5/16" x 1-3/4"
C.	1703579	Stainless Hex Head Cap Screw - 3/8" x 1"
L.	1201269	Cap Screw - 5/16" x 3/4" - SS
	1701045	Cap Screw - 5/16" x 3/4"
U.	1704431	Nylon Lock Nut - 5/16" - SS
	1704297	Nylon Lock Nut - 5/16"
AA.	1705648	Stainless Nylon Lock Hex Nut - 3/8"
BB.	1706088	Nylon Lock Hex Nut - 1/2" - SS
	1702115	Nylon Lock Hex Nut - 1/2"
CC.	1706006	Hex Nut - 1/2" - SS
	1700409	Hex Nut - 1/2"
FF.	1706096	Fender Washer - 1/2" - SS
	1706097	Fender Washer - 1/2"
GG.	1703620	Flat Washer - 1/2" - SS
	1702114	Flat Washer - 1/2"
HH.	1703577	Stainless Flat Washer - 3/8"
NN.	1201241	Lock Washer - 5/16" - SS
	1700433	Lock Washer - 5/16"

New Leader		
8.	1118246	Stainless Standoff Bracket
9.	1126496	Stainless Adapter Pivot Bracket
AGCO		
10.	1130181	Adapter Pivot Bracket

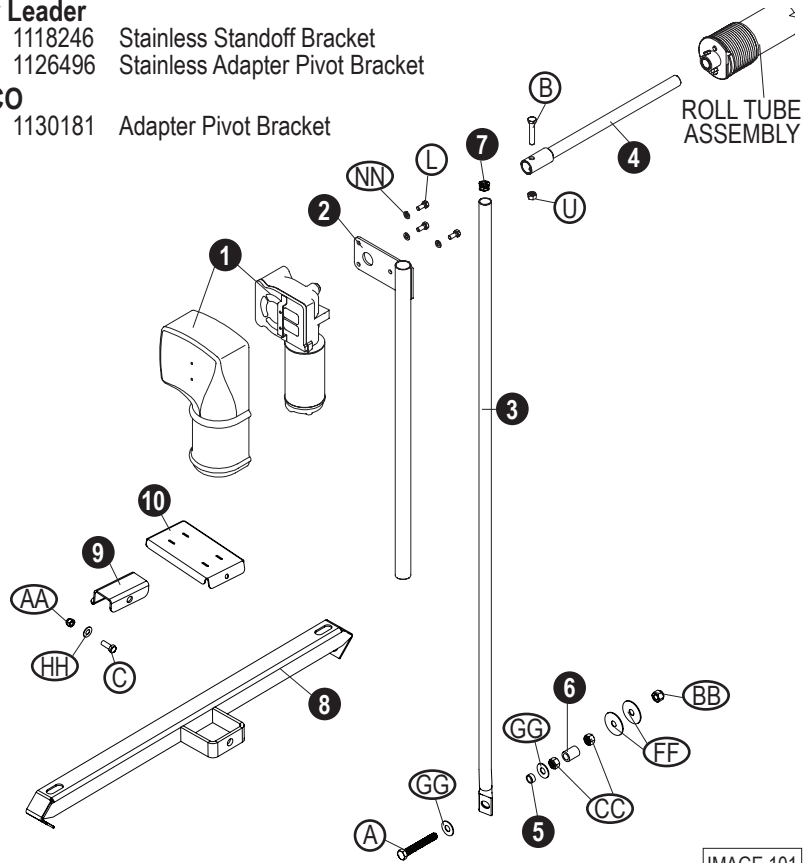


IMAGE 101

## Pivot Arm/Motor Installation - Direct Mount Installation

For systems that require a standoff bracket, proceed to page 7.

### STEP 1A:

- Determine pivot point location on front of box by measuring 36" down from the lower edge of the end cap at the center of the box.
- Mark the location and drill a 1/2" hole.

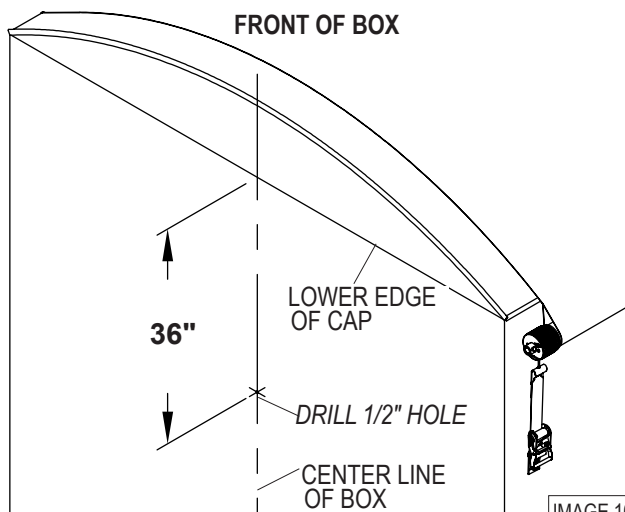


IMAGE 102

### STEP 2A:

- Insert cap screw (A) through washer (GG), the lower arm (3), bushing (5), washer (GG), nut (CC), spacer tube (6), nut (CC), fender washer (FF) and into the 1/2-inch hole.
- Secure the assembly from the inside of the hole with fender washer (FF) and lock nut (BB).

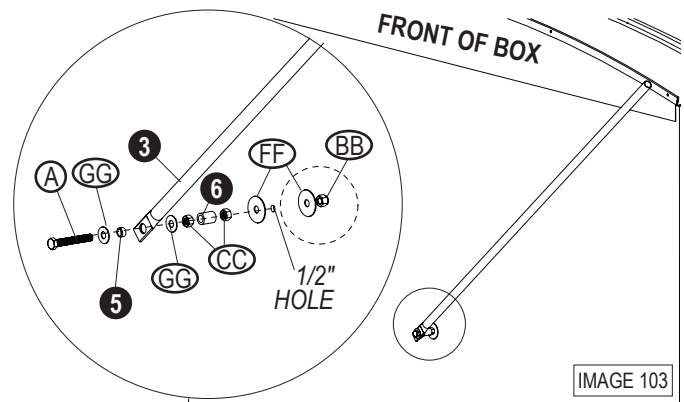


IMAGE 103

Continue to page 8

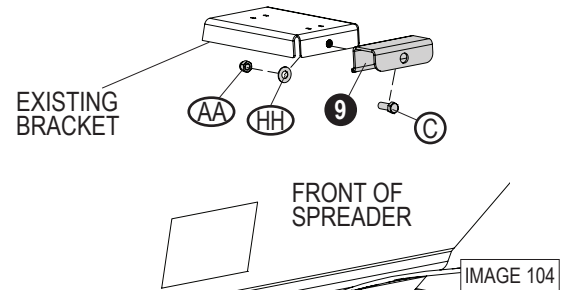
**NOTICE: STANDOFF BRACKETS**

- If standoff brackets are needed, some trailers may require different sizes. Call Shur-Co for more information.
- Swing arm must operate without interference. Locate standoff to allow clearance for swing arm operation.

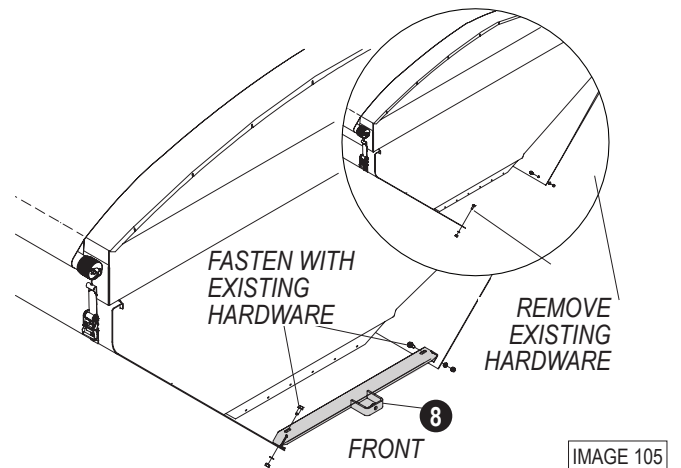
**Pivot Arm/Motor Installation - Standoff Bracket Installation****STEP 1B: PIVOT BRACKET INSTALLATION (3 Options)****New Leader Fertilizer Spreader - Pivot Bracket**

- **Option 1: Spreader- Model Year 2020 & Newer**  
**1126496 Stainless Pivot Bracket (9)**

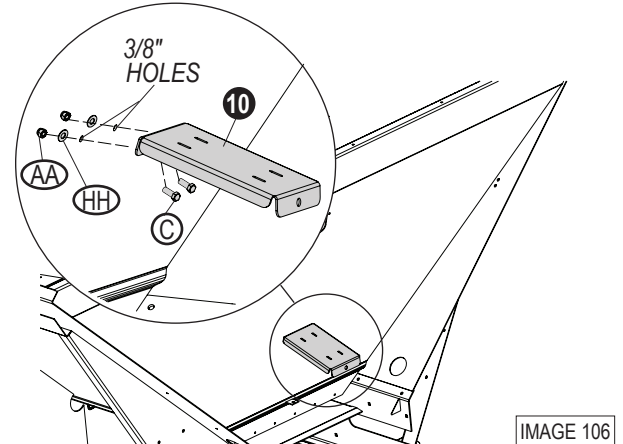
Install **bracket (9)** to the existing bracket on the front of the spreader with **screw (C)**, **flat washer (HH)**, and **locknut (AA)**, as shown in image 104.

**New Leader Fertilizer Spreader - Pivot Bracket**

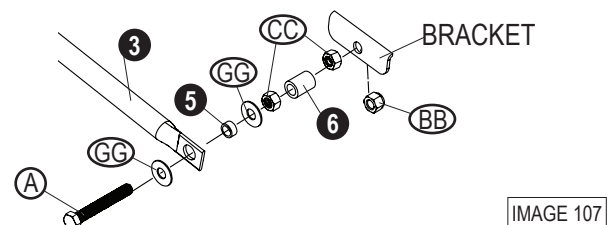
- **Option 2: Spreader- Model Year older than 2020**  
**1118246 Stainless Pivot Bracket (8)**
  - Remove one set of screws and locknuts from each side of the spreader, as indicated in image 105, and retain.
  - Fasten **bracket (8)** with the screws and locknuts removed from the spreader.

**AGCO Fertilizer Spreader - Pivot Bracket**

- **Option 3: 1130181 Adapter Pivot Bracket (10)**
  - Install **bracket (10)** with two **screws (C)**.
  - Secure the assembly from the inside of the existing 3/8" holes with **washers (HH)** and **lock nuts (AA)**.

**STEP 2B: ATTACH LOWER PIVOT ARM**

- Attach the **lower pivot arm (3)** to the bracket installed in Step 1B. Insert **cap screw (A)** through **washer (GG)**, the **lower arm (3)**, **bushing (5)**, **flat washer (GG)**, **nut (CC)**, **spacer tube (6)**, **nut (CC)** and into the bracket.
- Secure the assembly from the inside of the bracket with **lock nut (BB)**.

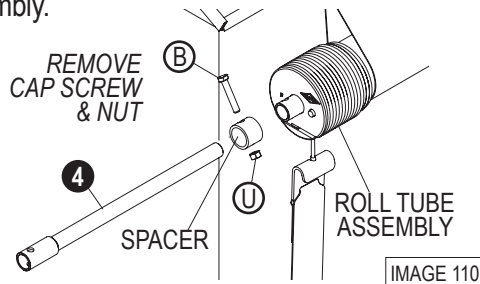




## Pivot Arm/Motor Installation - All Applications

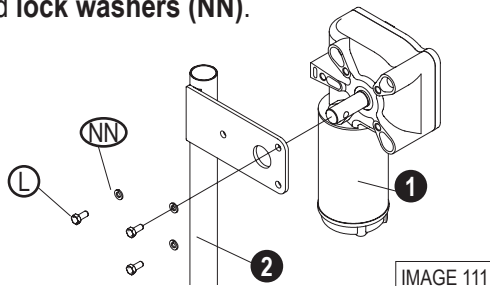
### STEP 3: ATTACH MOTOR EXTENSION

- Release the ratchets to remove tension from the roll tube.
- Remove the **cap screw (B)** and **lock nut (U)** from the cartridge spacer on the front of the roll tube.
- Insert the **motor extension (4)** into the spacer and the roll tube assembly.



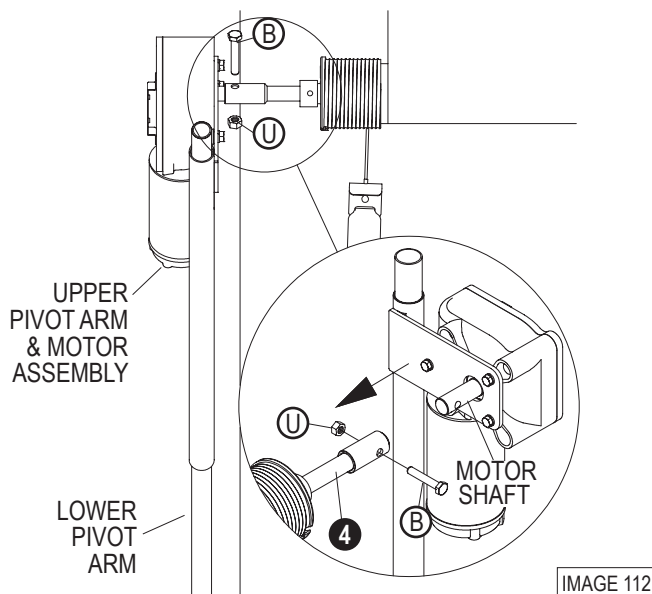
### STEP 4: FASTEN MOTOR TO ARM

Fasten the **motor (1)** to the **upper pivot arm (2)** with **screws (L)** and **lock washers (NN)**.



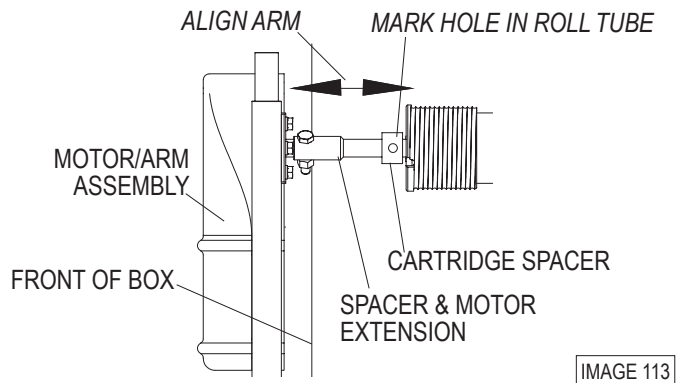
### STEP 5: PLACE MOTOR

- Slide the **upper pivot arm and motor assembly** over the **lower pivot arm**.
- Insert the **motor shaft** into the **motor extension (4)**.
- Insert **screw (B)** and finger tighten **nut (U)**.



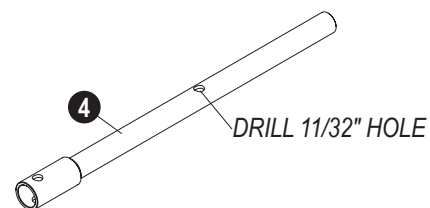
### STEP 6: ALIGN ARM/MOTOR

- Adjust the distance between the **motor/arm assembly (1)** and the box so that the arm aligns perpendicular to the top of the box.
- Ensure that the arm moves freely across the front of the box.
- Using the **hole in the roll tube** as a guide, mark the hole location on the motor extension.



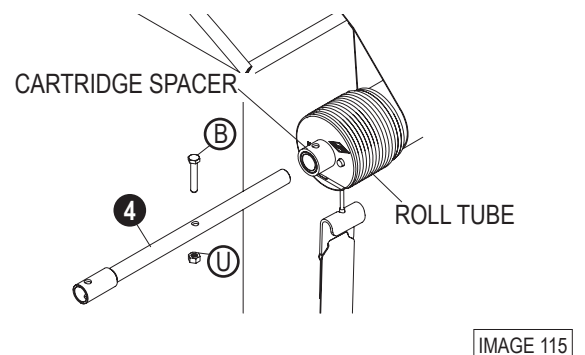
### STEP 7: DRILL HOLE IN MOTOR EXTENSION

- Remove the **motor extension (4)**.
- Drill an 11/32" hole through the motor extension at the marked location.



### STEP 8: REPLACE MOTOR EXTENSION

- Replace the **motor extension (4)** into the roll tube.
- Align the holes and secure the **cartridge spacer** and **motor extension (4)** to the **roll tube** with **screw (B)** and **nut (U)**.





**STEP 9: FASTEN MOTOR**

- a) Replace the **motor (1)** onto the **motor extension (4)**.
- b) Align the holes and secure the **motor to the motor extension** with **screw (B)** and **nut (U)**.

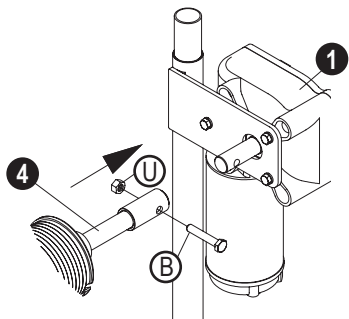


IMAGE 116

**STEP 10: FASTEN MOTOR COVER**

Fasten the motor cover to the **motor (1)** using the supplied screws.

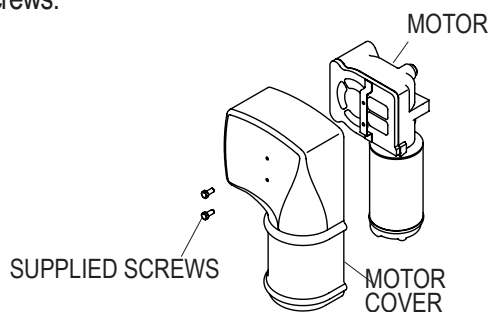


IMAGE 117

**NOTICE:** Store the hand crank arm in the truck or mount it to the trailer. (Example - above kingpin, near the apex.)

Continue to Wiring Instructions:

- Rocker Switch - page 10
- ShurLink™ Receiver - page 14

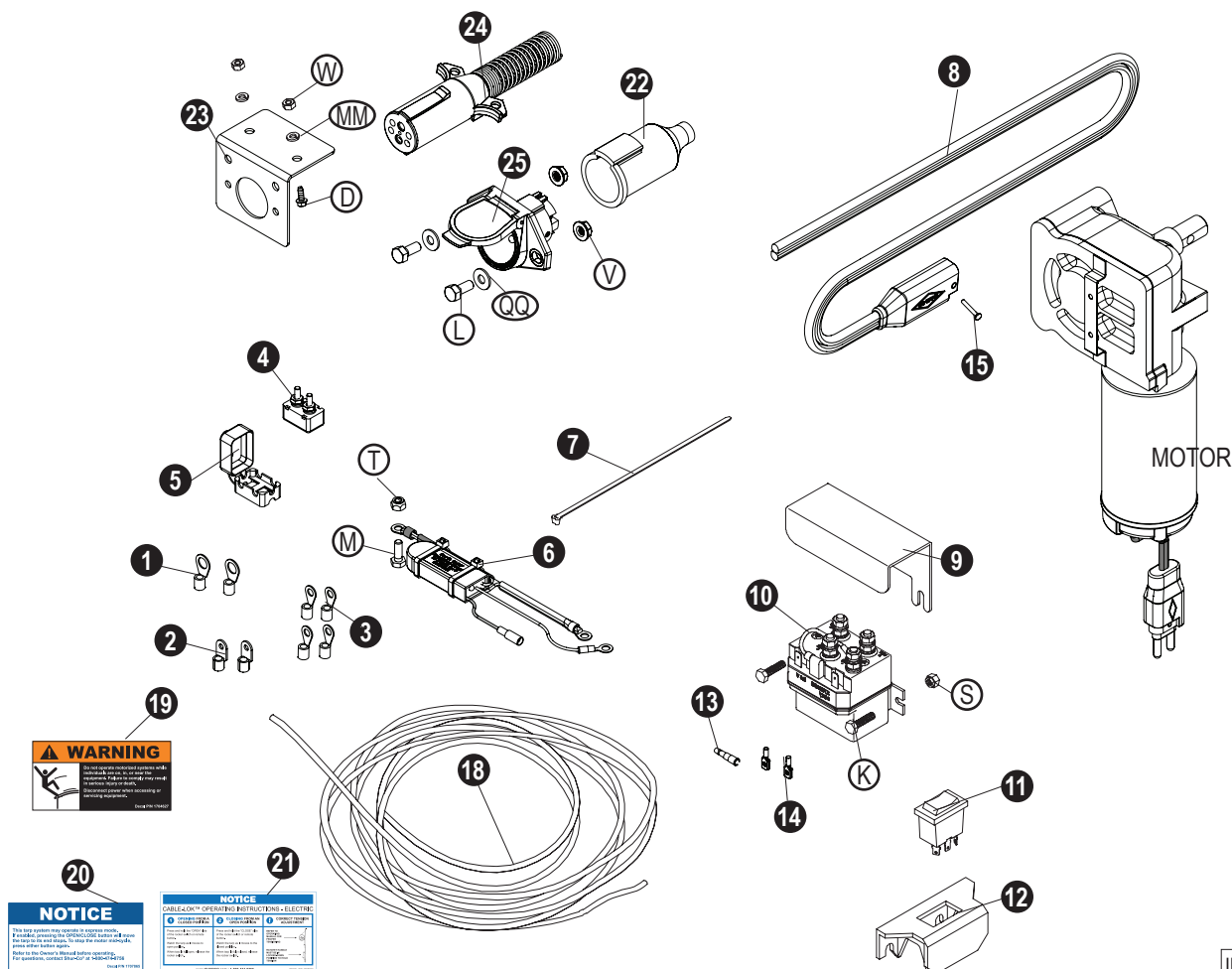


IMAGE 130

## All Rocker Switch Options

Item	Part #	Description
1.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
2.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
3.	1702707	Ring Terminal - 6 Ga. x 1/4" Stud - Motor/Solenoid
4.	1704354	40-Amp Modified-Reset Circuit Breaker
5.	1704411	Circuit Breaker Boot - Red
6.	1705631	SMART™ Circuit Breaker - 80 Amp
7.	1703231	Cable Tie - 8"
8.	1704994	SMARTwire™ Socket x Blunt - 6 Ga. x 40' (For Farm Body with Hoist)
	1121631	SMARTwire™ Socket x Blunt - 6 Ga. x 18'
9.	1703896	Solenoid Cover
10.	1703845	Motor-Reversing Solenoid
11.	1116020	Rocker Switch
12.	1703661	Mounting Bracket - Rocker Switch
13.	1705093	Bullet Connector - Male
14.	1703659	Quick Disconnect - Female x 14 Ga. x 1/4" - Switch/Solenoid
15.	1704751	Harness Lock Pin - 1/4" x 7/8"
16.	1704378	Dielectric Connector Protector (not pictured)
17.	1704628	Motorized System Warning Decal
18.	1116482	Electrical Wire - 3 Strand 14 Ga. - 15'
	1116514	Electrical Wire - 3 Strand 14 Ga. - 30'
19.	1704627	Motorized System Decal Warning
20.	1707865	Motorized System Decal Notice
21.	1707832	Cable-Lok E-Operation Decal

## Rocker Switch for Tender Trailers Option

Item	Part #	Description
22.	1704573	Sealing Boot - Socket Half Dual-Cond
23.	1109015	Conductor Plug Mtg (L) Bracket
24.	1115385	HD Dual-Cond Plug - Vert Pin
25.	1115386	HD Dual-Cond Socket - Vert Pin

## Fasteners

Item	Part #	Description
D.	1700400	Self-Tapping Screw - 3/8" x 1"
K.	1704905	Hex Flange Cap Screw - #10-24 x 1"
L.	1701045	Hex Head Cap Screw - 5/16" x 3/4"
M.	1703959	Hex Head Cap Screw - 1/4" x 3/4"
S.	1808844	Nylon Lock Hex Nut - #10-24
T.	1701543	Nylon Lock Hex Nut - 1/4"
V.	1704946	Top Lock Flange Nut - 5/16"
W.	1700407	Hex Nut - 3/8"
MM.	1700434	Lock Washer - 3/8"
QQ.	1700427	Flat Washer - 1/4"

## CHASSIS MOUNTED BOX

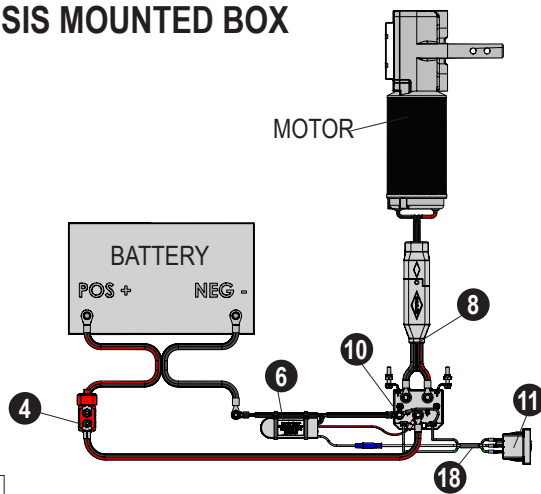


IMAGE 131

## TENDER TRAILER

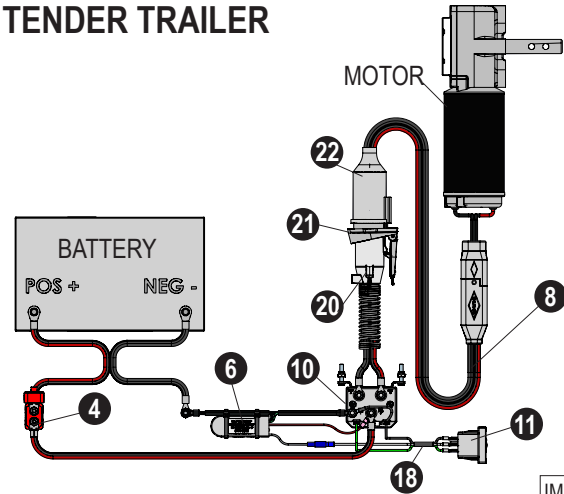


IMAGE 132

**NOTICE:** Only one electric tarp system can be hooked up at a time.

## Rocker Switch Wiring - All Applications

## STEP 1: CONNECT SMARTWIRE TO MOTOR

Apply dielectric grease (16) to the motor and Smartwire (8) connections and secure connection with lock pin (15).

**NOTICE: FARM BODY with HOIST**

Run **SMARTwire (8)** to the rear of the box, around the hoist pin, then back to the front of the box as shown.

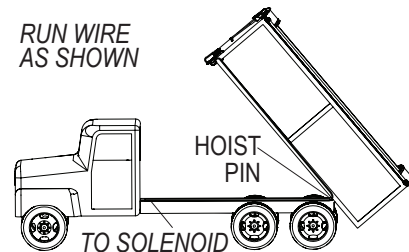


IMAGE 133

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



## Rocker Switch Wiring - Chassis Mounted Box

For tender trailer dual pole plug wiring, proceed to page 12.

## STEP 2A: MOUNT THE SOLENOID

- Mount the solenoid in a suitable location, such as a ventilated area near the battery.
- Determine the best route for **SMARTwire (8)** to the **solenoid (10)**, usually along the frame with existing wire harness.
- Mount the solenoid with **cap screw (K)** and secure with **lock nut (S)**.

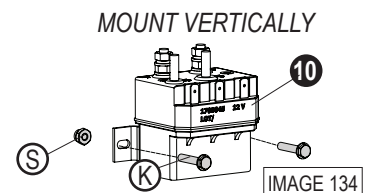


IMAGE 134

## STEP 2B: ROUTE WIRE TO SOLENOID

- Cut **SMARTwire (8)** at proper length to prepare for **solenoid (10)** connection.
- Crimp **ring terminals (3)** to wire ends and connect red wire to **post B** post.

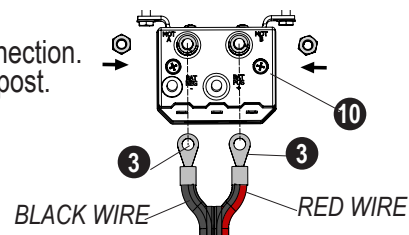


IMAGE 135

Continue rocker switch wiring on page 13.

## Rocker Switch Wiring - Tender Trailer

### STEP 2A: MOUNT DUAL CONDUCTOR SOCKET

- Determine location on the front of the trailer for the **conductor socket (25)**.
- If needed, fasten the **mounting bracket (23)** with two **screws (D)**, two **lock washers (MM)** and two **nuts (W)**.
- If no bracket is needed, drill a 2" hole through the trailer. Align socket over the 2-inch hole and use as a guide to drill two 5/16" holes.
- Attach **socket (25)** with two **screws (L)**, two **washers (QQ)** and secure from inside the trailer with two **nuts (V)**.

OPTIONAL BRACKET

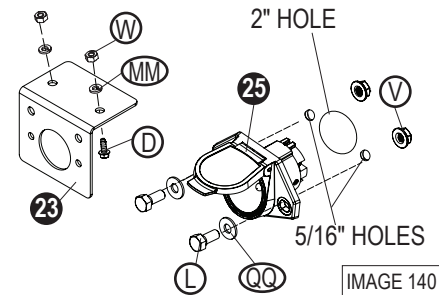


IMAGE 140

### STEP 2B: WIRE MOTOR TO SOCKET

- Route **wire (8)** from the motor to the mounted **socket (25)**. Cut and retain extra wire.
- Feed **wire (8)** through the **sealing boot (22)**.
- Loosen the set screws on the **socket (25)**.
- Strip the insulation back 1/2 inch, apply dielectric grease to the brass contacts, and insert bare wire strands into contacts. Ensure there are no loose wire strands that could short circuit. Tighten the set screws to secure wires.
- Secure the **sealing boot (22)** onto the conductor socket.

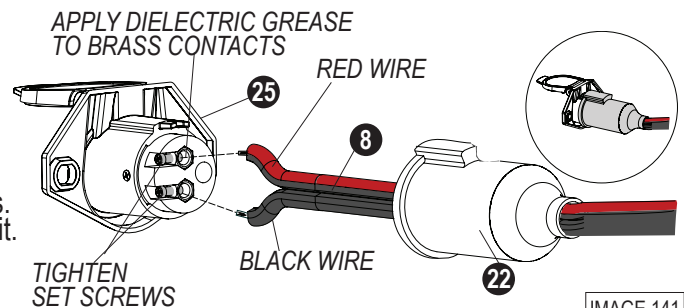


IMAGE 141

### STEP 2C: MOUNT THE SOLENOID

- Mount the **solenoid (10)** vertically in a suitable location, preferably in a ventilated area near the battery.
- Mount the solenoid with two **cap screws (K)** and secure with two **lock nuts (S)**.

MOUNT SOLENOID VERTICALLY

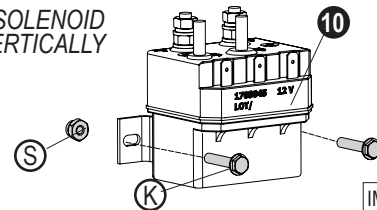


IMAGE 142

### STEP 2D: WIRE CONNECTOR PLUG

- Loosen **screw (a)** on the **conductor plug (24)** and remove the **insert** from the plug housing.
- Feed the remaining **wire (8)** through the **plug** housing.
- Strip insulation back 1/2 inch, apply dielectric grease to the brass contacts, and insert bare wire strands into contacts. Ensure there are no loose wire strands that could short circuit.
- Tighten **set screws (b)** to secure wires.
- Replace insert into the plug housing and secure **screw (a)**.

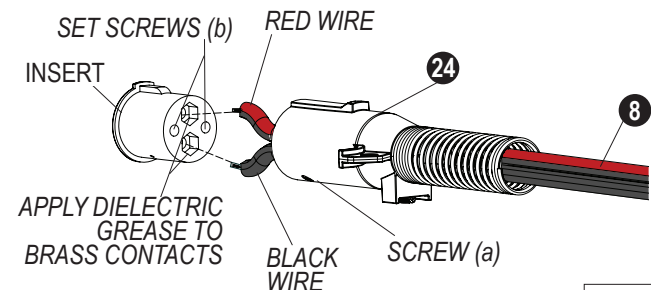


IMAGE 143

### STEP 2E: ROUTE WIRE TO SOLENOID

- Connect the conductor plug to the conductor socket.
- Determine the best route for **SMARTwire (8)** from the connected conductor plug to the **solenoid (10)**, usually along the frame with existing wire harness.
- Cut **SMARTwire (8)** at proper length to prepare for **solenoid (10)** connection. Retain extra wire.
- Crimp **ring terminals (3)** to wire ends and connect red wire to **post B** and black wire to **post A**.

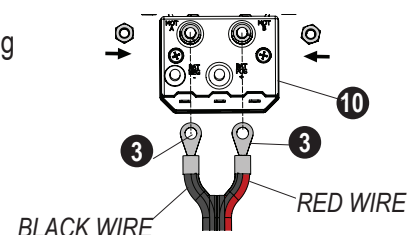
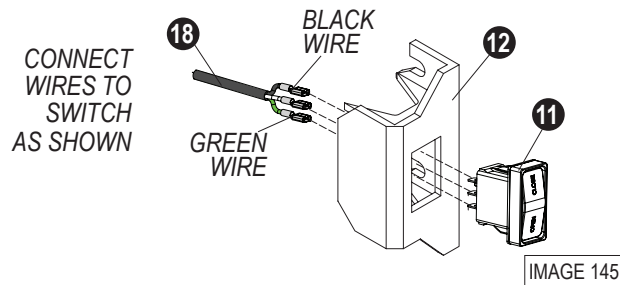


IMAGE 144

## Rocker Switch Wiring - All Applications

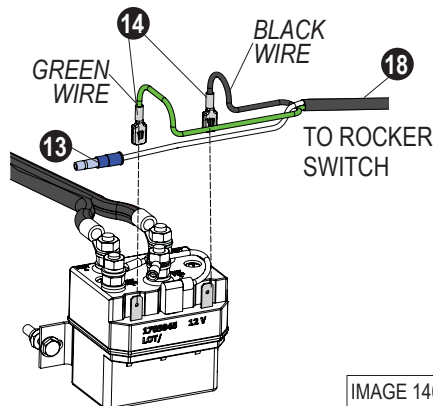
### STEP 3: MOUNT ROCKER SWITCH

- Mount the **rocker switch (11)** with **mounting bracket (12)** in a convenient location, such as in the cab, on the dash panel or on the right side door jamb.
- Run 14-ga. **electrical wire (18)** from the solenoid to the rocker switch and connect as shown below.



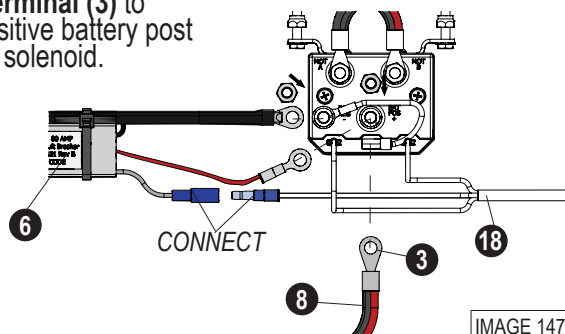
### STEP 4: WIRE ROCKER SWITCH TO SOLENOID

- Route **wire (18)** to the solenoid and attach the **bullet connector (13)** to the white wire.
- Attach two **quick disconnects (14)** to **wire (18)** and attach to the solenoid as shown below.
- Position wires so cover can be mounted over the solenoid later.



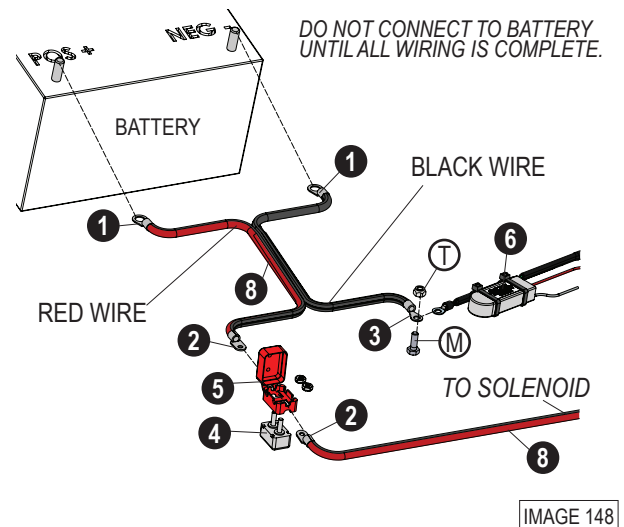
### STEP 5: CONNECT SMART CIRCUIT BREAKER

- Locate the **SMART™ Circuit Breaker (6)** within 1 foot of the positive battery post and attach the three wires as shown below.
- With the remaining 6 ga. **wire (8)**, strip and connect **ring terminal (3)** to the positive battery post on the solenoid.



### STEP 6: CONNECT CIRCUIT BREAKERS

- Locate **circuit breaker (4)** as close as possible to the battery or power supply. Run the 6 ga. **wire (8)** from the solenoid to the 40 amp **circuit breaker (4)** and cut wire.
- Using the remaining piece of **wire (8)**, split ends and attach ring terminals as indicated below.
- With the 40 amp **circuit breaker (4)** inside **boot (5)** connect as shown below.
- Connect the **SMART™ Circuit Breaker (6)** to the black wire with **ring terminal (3)** with **screw (M)** and **lock nut (T)** and wrap the connection with electric tape.
- Connect the **ring terminals (1)** to the battery.



## ⚠ CAUTION

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

*Continue installation on page 18 with Decal Placement.*



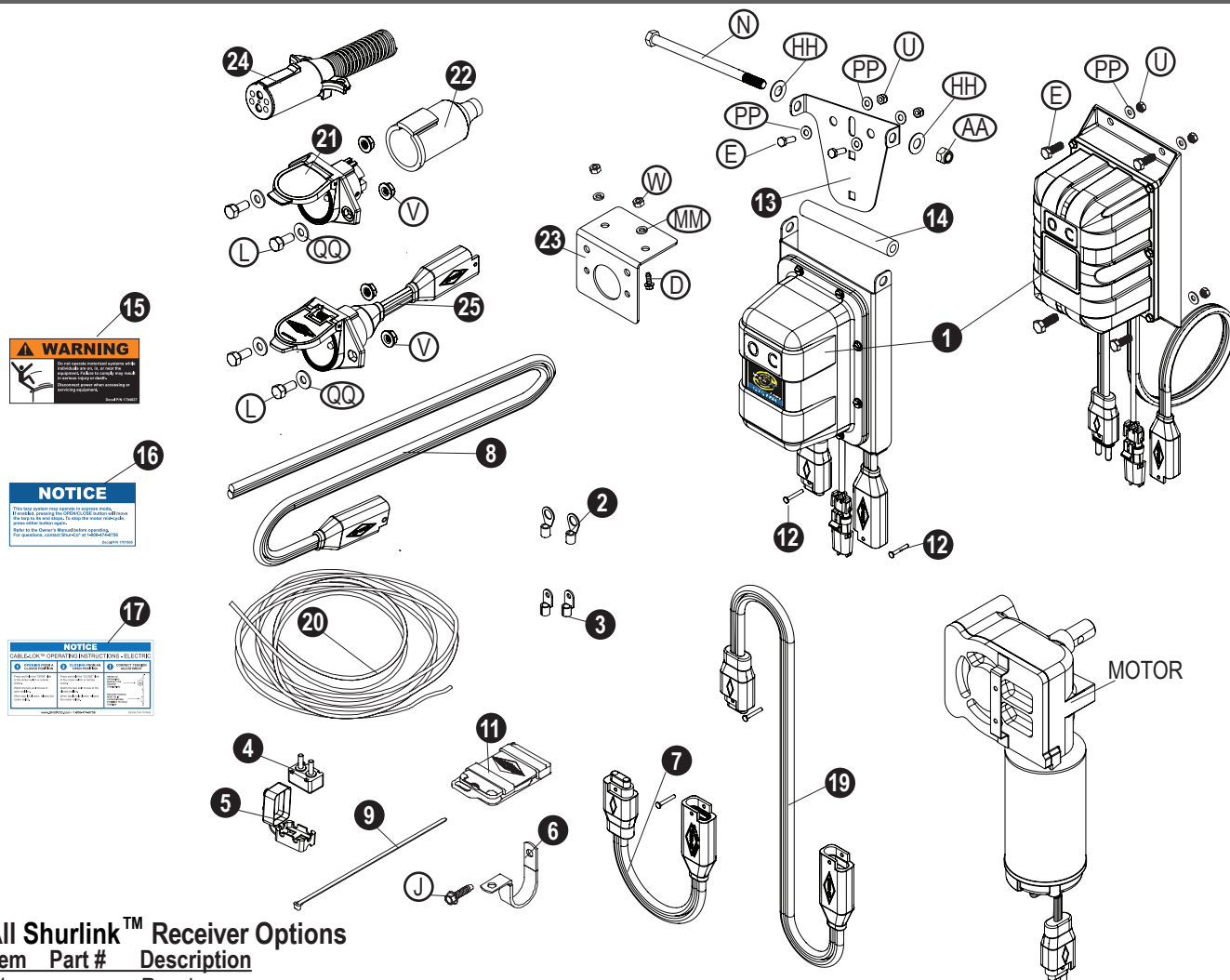


IMAGE 150

**All Shurlink™ Receiver Options**

Item	Part #	Description
1.	1131610	Receiver
	1132042	ShurLink™ Rec - Bottom Output - Stainless
		ShurLink™ Rec - Rear Output - Stainless
2.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
3.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
4.	1704354	40-Amp Modified-Reset Circuit Breaker
5.	1704411	Circuit Breaker Boot - Red
6.	1702108	Wire Clip - 3/4"
7.	1127574	SMARTwire™ Socket x Plug - 6 Ga. x 10'6"
8.	1121631	SMARTwire™ Socket x Blunt - 6 Ga. x 18"
	1704994	SMARTwire™ Socket x Blunt - 6 Ga. x 40' (For Farm Body with Hoist)
9.	1703231	Cable Tie - 8"
10.	1704378	Dielectric Connector Protector (not pictured)
11.	1131576	5-Channel ShurLink EZR Remote
12.	1704751	Harness Lock Pin - 1/4" x 7/8"
13.	1127972	Solenoid Hinge Bracket (Receiver 1132042 Only)
14.	1127977	Spacer Tube - 11/16" x 5" (Receiver 1132042 Only)
15.	1704627	Motorized System Decal Warning
16.	1707865	Motorized System Decal Notice
17.	1707832	Cable-Lok E-Operation Decal

**Fasteners**

Item	Part #	Description
D.	1700400	Self-Tapping Screw - 3/8" x 1"
E.	1704430	Cap Screw - 5/16" x 1" - SS
J.	1706120	Self-Tapping Screw - 1/4" x 1"
L.	1701045	Hex Head Cap Screw - 5/16" x 3/4"
N.	1706093	Hex Head Cap Screw - 3/8" x 6"
U.	1704431	Nylon Lock Nut - 5/16" - SS
V.	1704946	Top Lock Flange Nut - 5/16"
W.	1700407	Hex Nut - 3/8"
AA.	1705648	Nylon Lock Hex Nut - 3/8"
HH.	1703577	Stainless Flat Washer - 3/8"
MM.	1700434	Lock Washer - 3/8"
QQ.	1700427	Flat Washer - 1/4"
PP.	1201237	Stainless Flat Washer - 5/16"

**Shurlink™ Receiver for Tender Trailers**

19.	1704827	SMARTwire™ Socket x Plug - 6 Ga. x 16'
20.	1119033	Dual-Cond Wire - 6 Ga x 25'
23.	1109015	Conductor Plug Mtg (L) Bracket
24.	1115385	HD Dual-Cond Plug - Vert Pin
25.	1120670	SMARTwire™ Dual-Cond Socket x Socket - 6 Ga. x 3'6"

**Shurlink™ Receiver for Farm Tractors**

19.	1704827	SMARTwire™ Socket x Plug - 6 Ga. x 16'
21.	1115386	HD Dual-Cond Socket - Vert Pin
22.	1704573	Sealing Boot - Socket Half Dual-Cond
23.	1109015	Conductor Plug Mtg (L) Bracket
24.	1115385	HD Dual-Cond Plug - Vert Pin



**NOTICE:** Only one electric tarp system can be hooked up at a time.

**NOTICE:** The receiver's encoder wire (circled in wiring images) is not used in this installation.

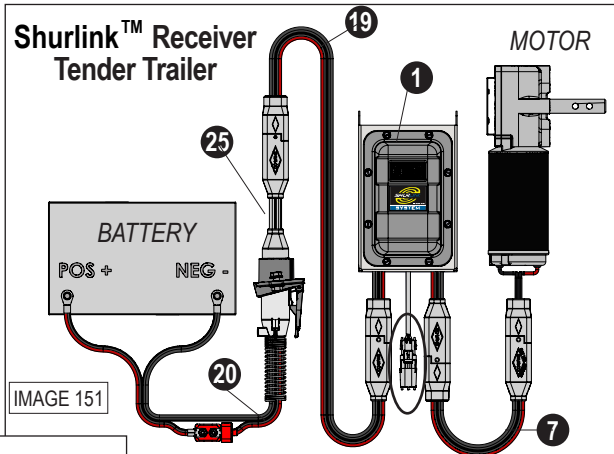


IMAGE 151

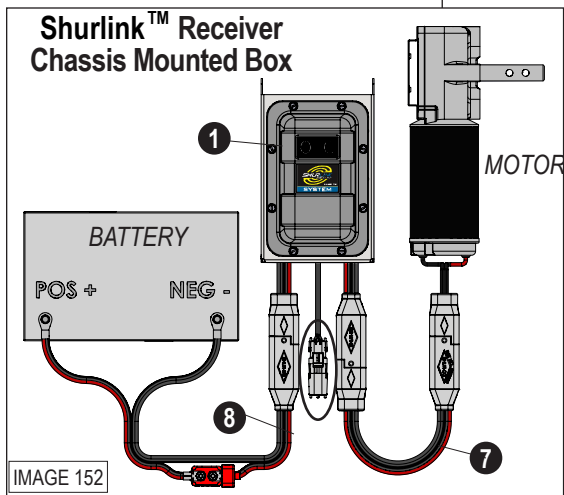


IMAGE 152

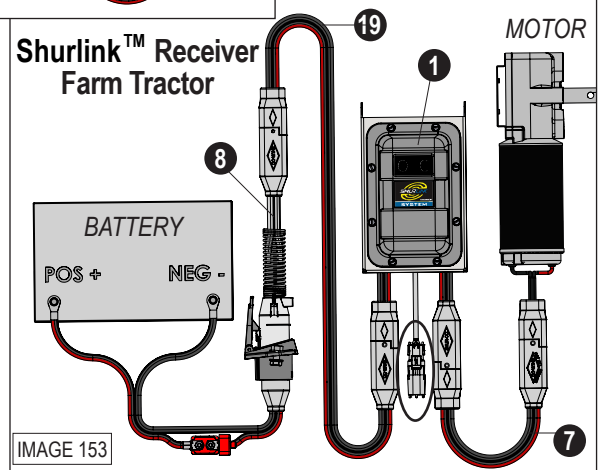


IMAGE 153

## ShurLink™ Receiver Wiring

### STEP 1: IDENTIFY RECEIVER MOUNTING LOCATION

Identify an easily accessible location for the receiver. The receiver must hang vertically.

**NOTICE:** Wire lengths are predetermined. Before installing SMARTwire™ components, review the wire routing to ensure the wires reach the components with ample room for connection.

#### **NOTICE: FARM BODY -**

Mount the receiver on the left side, towards the front corner of the box to ensure the motor works properly.

FRONT OF BOX

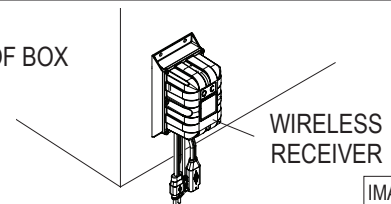


IMAGE 154

### STEP 2: INSTALL RECEIVER (2 Options)

- Option 1: 1131610 ShurLink™ Rec - Bottom Output - Stainless

Secure receiver with screws (E), flat washers (PP), and lock nuts (U), as shown in image.

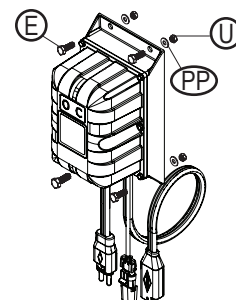


IMAGE 155

• **Option 2: 1132042 ShurLink™ Rec - Rear Output - Stainless**

- i) a) Determine **bracket (13)** orientation as shown in the images to the right.
- b) Fasten **bracket (13)** with two **cap screws (E)**, two **washers (PP)** and secure with two **washers (PP)** and two **lock nuts (U)**.

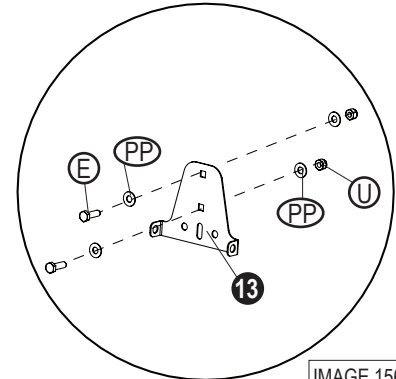
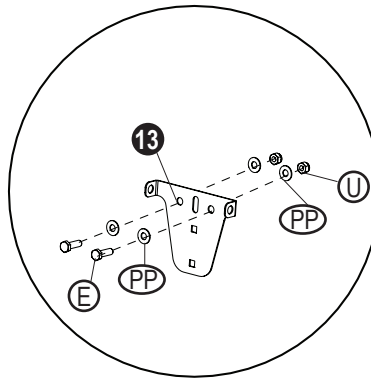


IMAGE 156

- ii) a) Align the **spacer tube (14)** with the **receiver (1)** and the **bracket flanges (13)**.
- b) Insert the 6-inch **cap screw (N)** through **washer (HH)**, then through the receiver flanges, spacer tube and bracket.
- c) Place a **washer (HH)** and **lock nut (AA)** onto the end of the cap screw on the outside of the bracket.

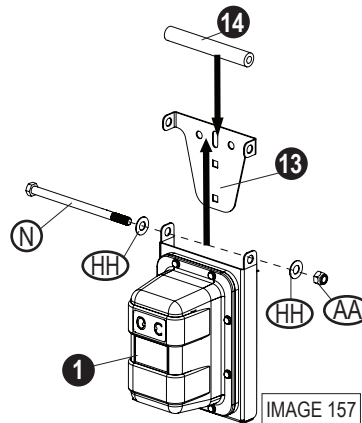


IMAGE 157

**OPTION 1  
INSTALLED**

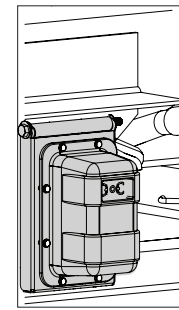


IMAGE 158

**OPTION 2  
INSTALLED**

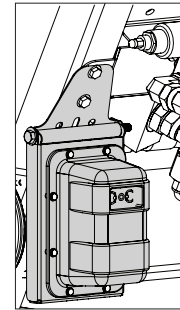


IMAGE 159

**STEP 3: CONNECT SMARTWIRE TO MOTOR**

Apply **dielectric grease (10)** to the **motor** and **receiver SMARTwire™** connections and connect the two by securing **SMARTwire™ (7)** with **lock pins (12)**.

**Shurlink™ Receiver Wiring - Chassis Mounted Box**

**STEP 4A: CONNECT SMARTWIRE TO RECEIVER**

Apply **dielectric grease (10)** to the **receiver** and **SMARTwire™ (8)** connections and secure with **lock pin (12)**.

**NOTICE: FARM BODY with HOIST**

Run **SMARTwire (8)** to the rear of the box, around the hoist pin, then back to the front of the box as shown.

Do not mount the receiver to the trailer frame.

RUN WIRE  
AS SHOWN

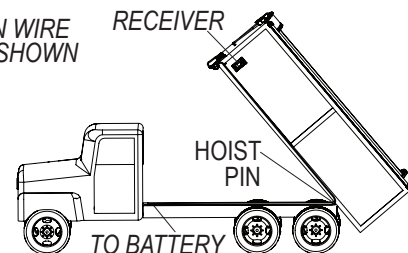


IMAGE 160

For tender trailer or farm tractor receiver wiring, proceed to page 17.  
For chassis mounted box receiver wiring, proceed to page 18.

## Shurlink™ Receiver Wiring - Tender Trailer & Farm Tractor

### STEP 4A: MOUNT DUAL CONDUCTOR SOCKET

- Determine location on the front of the trailer or rear of the farm tractor to mount the **socket**.
- If needed, fasten the **mounting bracket (23)** with two **screws (D)**, two **lock washers (MM)** and two **nuts (W)**.
- If no bracket is needed, drill a 2" hole through the trailer. Align the **socket** over the 2-inch hole and use as a guide to drill two 5/16" holes.
- Attach **socket** with two **screws (L)**, two **washers (QQ)** and secure from inside the trailer with two **nuts (V)**.

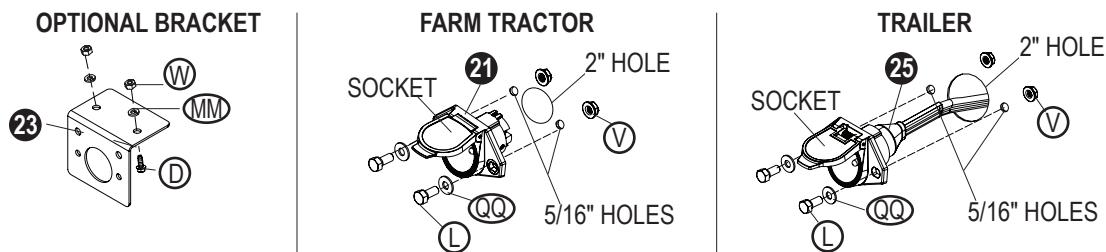


IMAGE 164

### STEP 4B: WIRE CONNECTOR PLUG & SOCKET

#### CONNECTOR PLUG

- Loosen **screw (a)** on the **conductor plug (24)** and remove the **insert** from the plug housing.
- Feed the 6 ga. **wire** through the **plug** housing.
- Strip insulation back 1/2 inch, apply dielectric grease to the brass contacts, and insert bare wire strands into contacts. Ensure there are no loose wire strands that could short circuit.
- Tighten **set screws (b)** to secure wires.
- Replace insert into the plug housing and secure **screw (a)**.

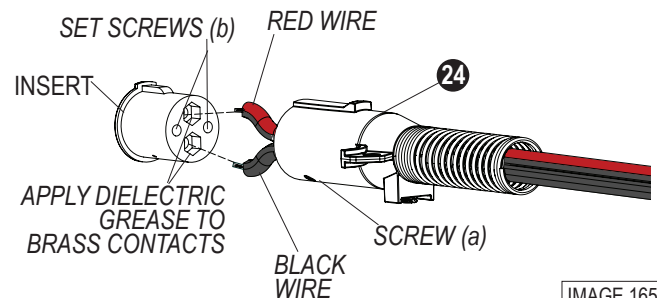


IMAGE 165

#### SOCKET (Farm Tractor)

- Route **wire (8)** from the motor to the mounted **socket (21)**. Cut and retain extra wire.
- Feed **wire (8)** through the **sealing boot (22)**.
- Loosen the set screws on the **socket (21)**.
- Strip the insulation back 1/2 inch, apply dielectric grease to the brass contacts, and insert bare wire strands into contacts. Ensure there are no loose wire strands that could short circuit. Tighten the set screws to secure wires.
- Secure the **sealing boot (22)** onto the conductor socket.

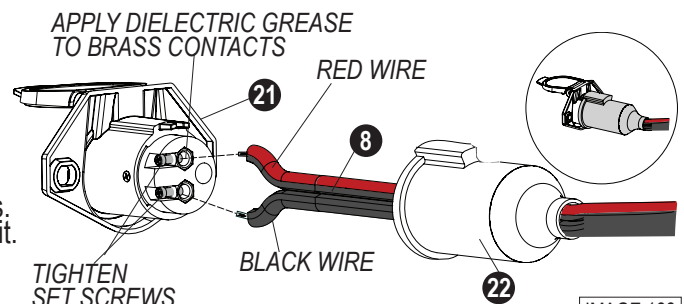


IMAGE 166

### STEP 4C: CONNECT SMARTWIRES

Apply **dielectric grease (10)** to the **SMARTwire™** connections and connect by securing with **lock pins (12)**.

### STEP 4D: CONNECT DUAL POLE PLUG AND SOCKET

## Shurlink™ Receiver Wiring - All Applications

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



### STEP 6: CONNECT CIRCUIT BREAKER

- Run 6 ga. wire to the battery. Determine **circuit breaker (4)** location as close as possible to the battery or power supply.
- Attach ring terminals as shown in the image.
- Install the **circuit breaker (4)** in the **boot (5)** to the red wire.
- Finally, connect the **ring terminals (2)** to the battery.

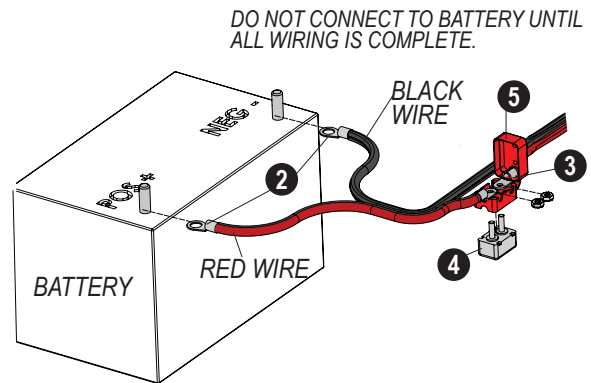


IMAGE 167

### ⚠ CAUTION

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

### ⚠ WARNING

Powering any Shur-Co® wireless system solely with a battery charger may lead to operational issues or system failure. A 12-volt truck or automobile battery must be used as the power source for the trailer's system.

### ⚠ CAUTION

When pressure washing the system, keep the nozzle at least 3 feet from the receiver and motor to avoid system damage.

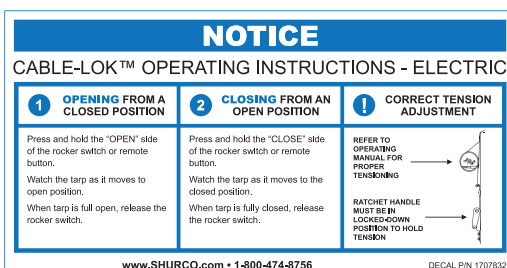
## Safety Decal Placement

### INSTALL SAFETY DECALS

- Identify a clean, dry surface area that is visible from the tarp system controls.
- Remove the backing from the **motorized warning decal (1)**, the **motorized notice decal (2)** and the **electric operation decal (3)**. Apply them to the identified surface.
- Regularly inspect all safety decals for wear and adherence to ensure ongoing safety. Replace if necessary.

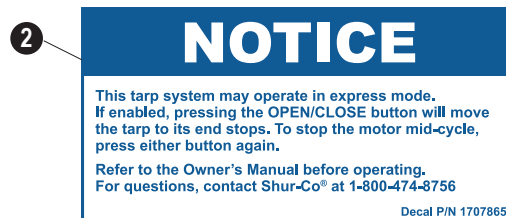


Decal P/N 1704627



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DECAL P/N 1707832



Decal P/N 1707865

Continue installation on page 19 with cable tensioning instructions.

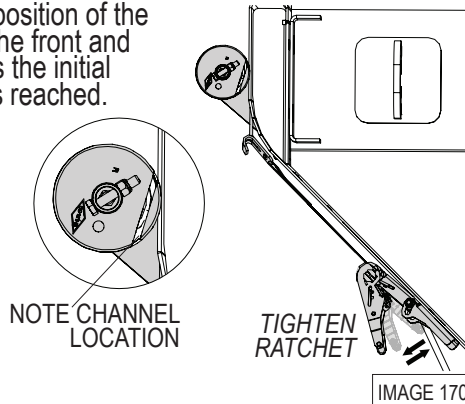
## Cable Tensioning Instructions

**⚠ WARNING**

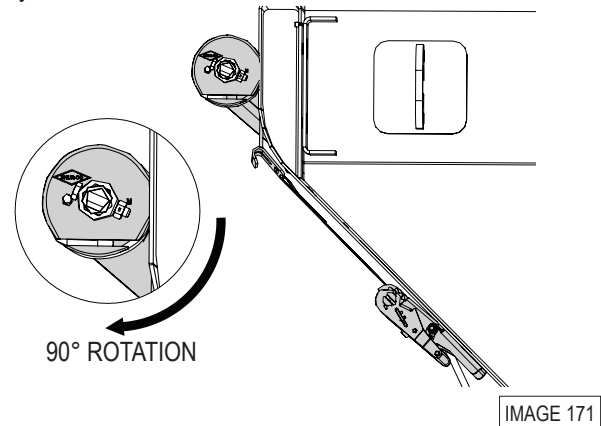
Keep hands, hair, and loose clothing away from the roll spool when the cable is wrapping. Avoid over-or under-ratcheting, as improper tension can increase the risk of entanglement. Do not adjust ratchets during operation of the tarping system.

**STEP 1: ADJUST RATCHET TENSION**

- Tighten the ratchets to remove slack in the tarp.
- Observe the position of the channels on the front and rear spools as the initial tarp tension is reached.

**STEP 2: FINALIZE TENSION ADJUSTMENT**

- Tighten the ratchets to rotate both channels 90° from their initial position.
- Recheck the channels' positions and retighten the ratchets as needed to achieve a full 90° rotation.
- Open and close the tarp system at least 5 or 6 times to verify consistent tension.

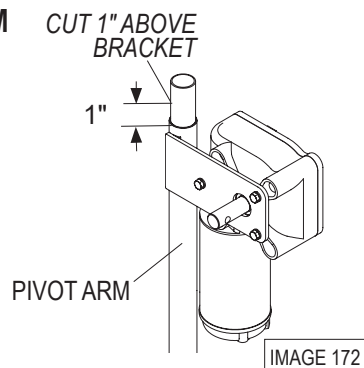


**NOTICE:** Ensure the ratchet is in the locked position to hold tension. Do not release tension to operate the system.

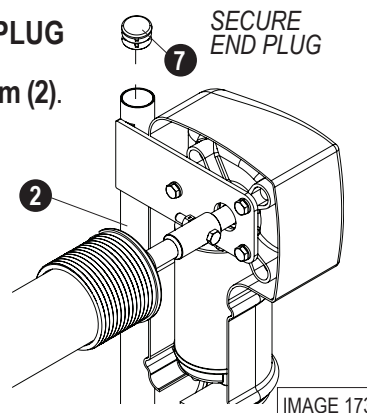
## Final Installation Steps

**STEP 1: CUT PIVOT ARM**

Cut the pivot arm off 1 inch above the motor bracket.

**STEP 2: INSTALL END PLUG**

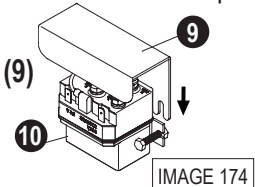
Insert the end plug (7) into the top of the pivot arm (2).



**NOTICE:** 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 tarp components, release switch at end of each cycle.

**ROCKER SWITCH TEST OPERATION**

- Check the motor direction by activating switch to "OPEN". If switch is running the system backwards, swap the wires connected to the left and right disconnect tabs on the top front of the solenoid.
- Loosen the hardware securing the solenoid (10), slide the cover (9) down and resecure hardware.



## CABLE-LOK™ OPERATING INSTRUCTIONS - ELECTRIC

1 OPENING FROM A CLOSED POSITION	2 CLOSING FROM AN OPEN POSITION	! CORRECT TENSION ADJUSTMENT
<p>Press and hold the "OPEN" side of the rocker switch or remote button.</p> <p>Watch the tarp as it moves to open position.</p> <p>When tarp is full open, release the rocker switch.</p>	<p>Press and hold the "CLOSE" side of the rocker switch or remote button.</p> <p>Watch the tarp as it moves to the closed position.</p> <p>When tarp is fully closed, release the rocker switch.</p>	<p>REFER TO OPERATING MANUAL FOR PROPER TENSIONING</p> <p>RATCHET HANDLE MUST BE IN LOCKED-DOWN POSITION TO HOLD TENSION</p>



Perform following steps to convert electric Cable-Lok™ system to manual crank operation:

**NOTICE:** Store the hand crank arm in the truck or mount it to the trailer. (Example - above kingpin, near the apex.)

## STEP 1: CLOSE TARP

Close the tarp. Release tension in the cables, then disconnect the power.

## STEP 2: REMOVE HARDWARE

- Unfasten and remove the 1-3/4" cap screw and 5/16" lock nut from the motor shaft and motor extension.
- Then, either secure the motor/arm assembly to the trailer or box, or completely remove the motor/arm assembly from the trailer or box.

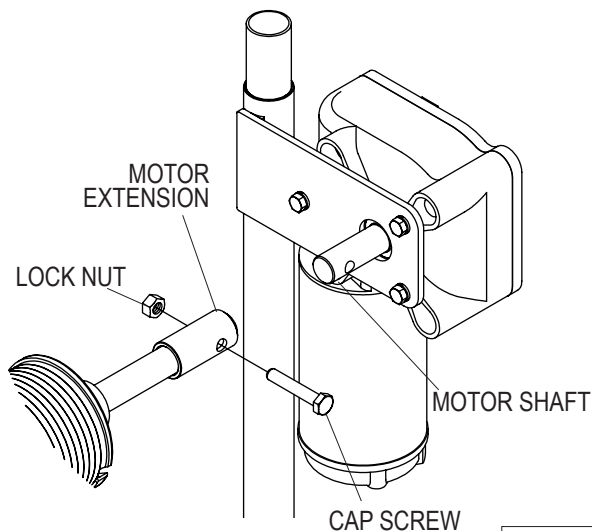


IMAGE 180

## STEP 3: REMOVE MOTOR EXTENSION

- Unfasten and remove the 1-3/4" cap screw and 5/16" lock nut from the motor extension and cartridge spacer.
- Remove the motor extension.

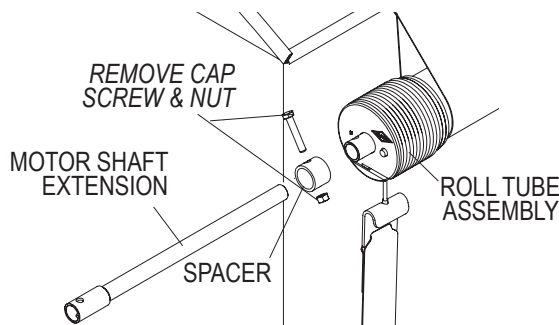


IMAGE 181

## STEP 4: REINSTALL HARDWARE

Reinstall the cap screw, spacer and nut back onto the roll tube cartridge.

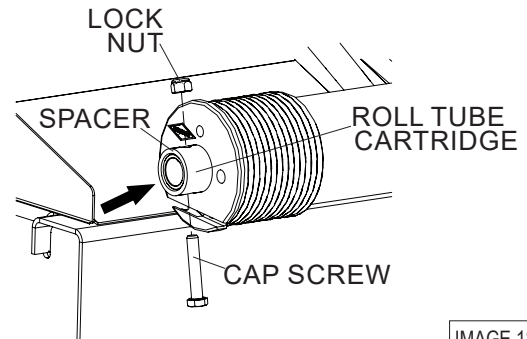


IMAGE 182

## STEP 5: ATTACH CRANK ARM

Install the crank arm at the rear of the box by fastening it into the roll tube with the spacer, cap screw and nut installed on the end of the roll tube.

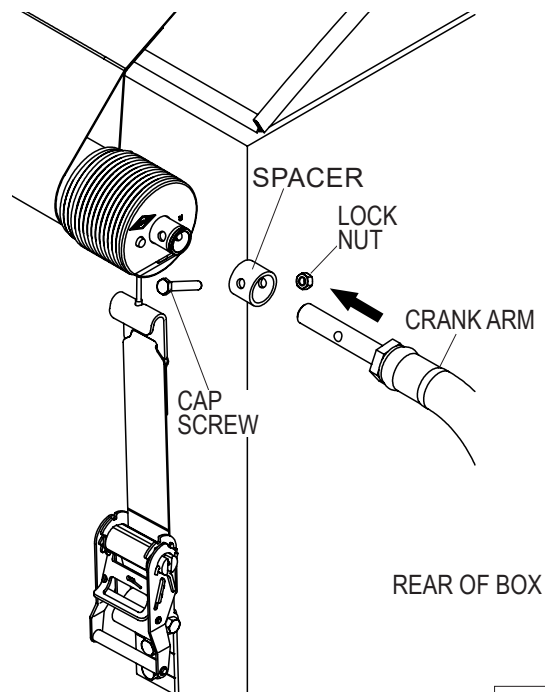


IMAGE 183

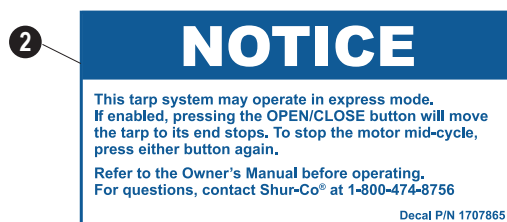
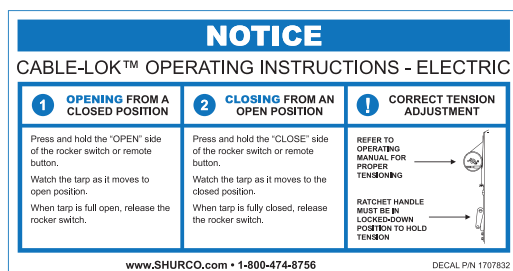
## STEP 6: TENSION CABLES

**NOTICE:** Refer to the **Cable Tensioning** section on page 19 for detailed cable tensioning instructions.



## Decals

Item	Part #	Description
1.	1704627	Motorized System Decal Warning
2.	1707865	Motorized System Decal Notice
3.	1707832	Cable-Lok E-Operation Decal



## Pivot Arm and Motor Parts &amp; Hardware

Item	Part #	Description
1.	1133057	Sealed Durabuilt™ Motor
2.	1130445	Upper Pivot Arm - Durabuilt™ - SS
	1118224	Upper Pivot Arm - Durabuilt™
3.	1127979	Lower Pivot Arm - 60" - SS
	1129986	Lower Pivot Arm - 60"
	1115558	Lower Pivot Arm - 80" - SS
	1127970	Lower Pivot Arm - 64" - SS
4.	1201241	Lock Washer - 5/16" - SS
	1700433	Lock Washer - 5/16"
5.	1201269	Cap Screw - 5/16" x 3/4" - SS
	1701045	Cap Screw - 5/16" x 3/4"
6.	1701595	End Plug - 1"
7.	1704431	Nylon Lock Nut - 5/16" - SS
	1704297	Nylon Lock Nut - 5/16"
8.	1704334	Cap Screw - 5/16" x 1 3/4" - SS
	1701468	Cap Screw - 5/16" x 1-3/4"
9.	1118221	Motor Extension
10.	1127959	Stainless Spacer Tube - .84" OD x .55" ID x 1-1/4"
11.	1706088	Nylon Lock Hex Nut - 1/2" - SS
	1702115	Nylon Lock Hex Nut - 1/2"
12.	1706096	Fender Washer - 1/2" - SS
	1706097	Fender Washer - 1/2"
13.	1706006	Hex Nut - 1/2" - SS
	1700409	Hex Nut - 1/2"
14.	1100306	Bushing - 11/16"
15.	1703620	Flat Washer - 1/2" - SS
	1702114	Flat Washer - 1/2"
16.	1706005	Hex Head Cap Screw - 1/2" x 3-1/2" - SS
	1706597	Hex Head Cap Screw - 1/2" x 3-1/2"
17.	1705648	Stainless Nylon Lock Hex Nut - 3/8"
18.	1703577	Stainless Flat Washer - 3/8"
19.	1703579	Stainless Hex Head Cap Screw - 3/8" x 1"

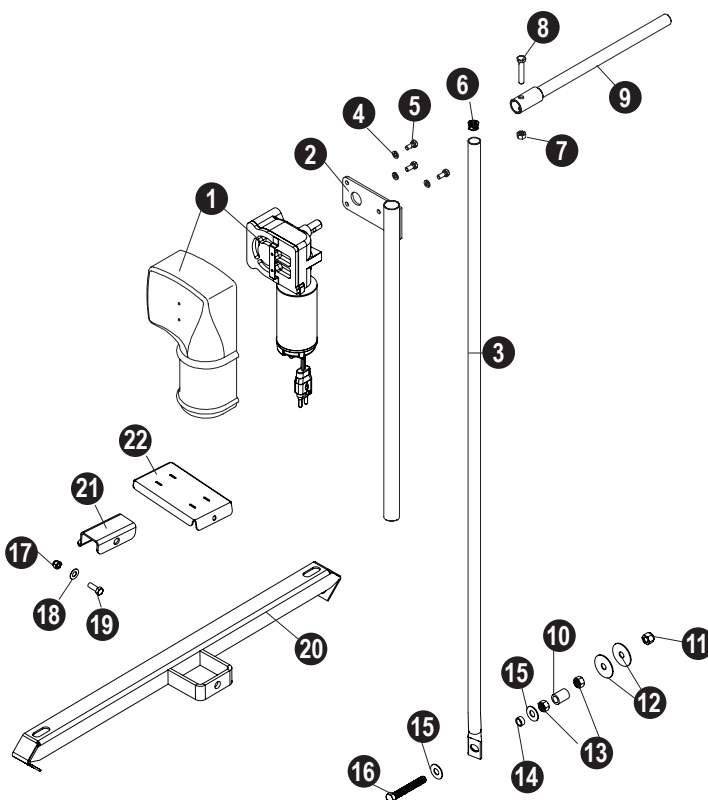


IMAGE 701

## New Leader

20.	1118246	Stainless Standoff Bracket
21.	1126496	Stainless Adapter Pivot Bracket

## AGCO

22.	1130181	Adapter Pivot Bracket
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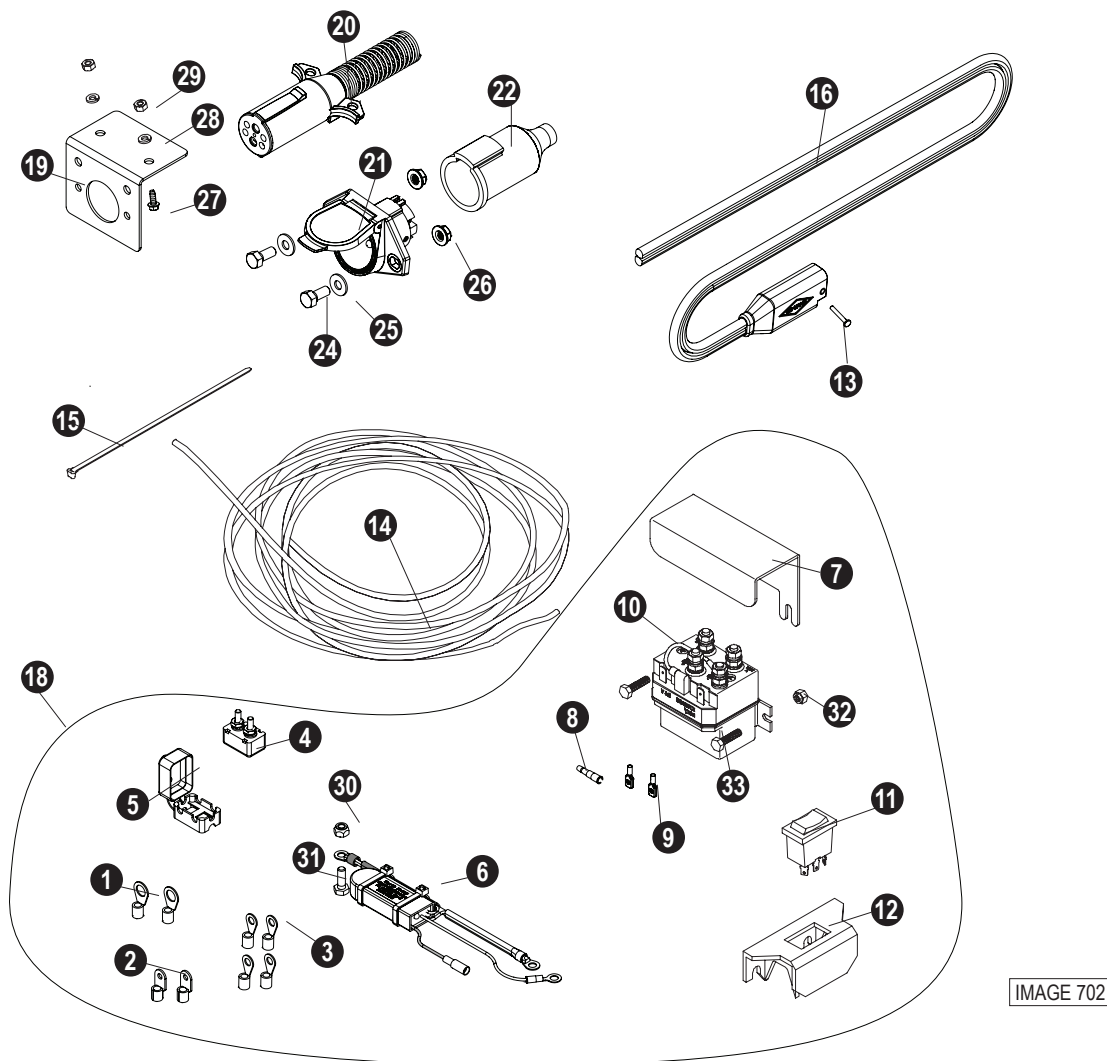


IMAGE 702

## All Rocker Switch Options

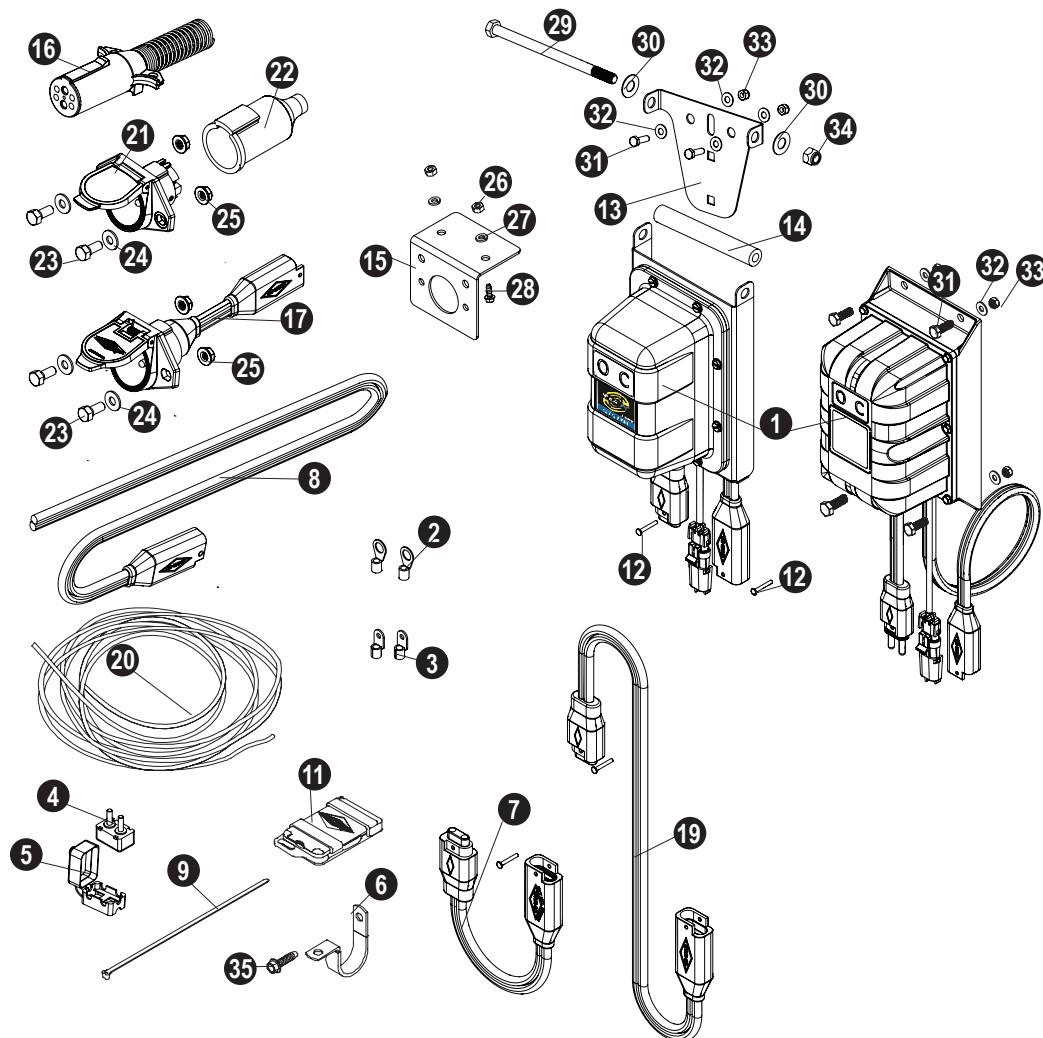
Item	Part #	Description
1.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
2.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
3.	1702707	Ring Terminal - 6 Ga. x 1/4" Stud - Motor/Solenoid
4.	1704354	40-Amp Modified-Reset Circuit Breaker
5.	1704411	Circuit Breaker Boot - Red
6.	1705631	SMART™ Circuit Breaker - 80 Amp
7.	1703896	Solenoid Cover
8.	1705093	Bullet Connector - Male
9.	1703659	Quick Disconnect - Female x 14 Ga. x 1/4" - Switch/Solenoid
10.	1703845	Motor-Reversing Solenoid
11.	1116020	Rocker Switch
12.	1703661	Mounting Bracket - Rocker Switch
13.	1704751	Harness Lock Pin - 1/4" x 7/8"
14.	1116482	Electrical Wire - 3 Strand 14 Ga. - 15'
	1116514	Electrical Wire - 3 Strand 14 Ga. - 30'
15.	1703231	Cable Tie - 8"
16.	1704994	SMARTwire™ Socket x Blunt - 6 Ga. x 40' (For Farm Body with Hoist)
	1121631	SMARTwire™ Socket x Blunt - 6 Ga. x 18'
17.	1704378	Dielectric Connector Protector (not pictured)
18.	1128925	Electrical Parts Kit

## Rocker Switch for Tender Trailers

Item	Part #	Description
19.	1109015	Bracket
20.	1115385	HD Dual-Cond Plug - Vert Pin
21.	1115386	HD Dual-Cond Socket - Vert Pin
22.	1704573	Sealing Boot - Socket Half Dual-Cond

## Fasteners

Item	Part #	Description
24.	1701045	Hex Head Cap Screw - 5/16" x 3/4"
25.	1700427	Flat Washer - 1/4"
26.	1704946	Top Lock Flange Nut - 5/16"
27.	1700400	Self-Tapping Screw - 3/8" x 1"
28.	1700434	Lock Washer - 3/8"
29.	1700407	Hex Nut - 3/8"
30.	1701543	Nylon Lock Hex Nut - 1/4"
31.	1703959	Hex Head Cap Screw - 1/4" x 3/4"
32.	1808844	Nylon Lock Hex Nut - #10-24
33.	1704905	Hex Flange Cap Screw - #10-24 x 1"

**All ShurLink™ Receiver Options**

Item	Part #	Description
1.	1131610	ShurLink™ Rec - Bottom Output - Stainless
	1132042	ShurLink™ Rec - Rear Output - Stainless
2.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
3.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
4.	1704354	40-Amp Modified-Reset Circuit Breaker
5.	1704411	Circuit Breaker Boot - Red
6.	1702108	Wire Clip - 3/4"
7.	1127574	SMARTwire™ Socket x Plug - 6 Ga. x 10'6"
8.	1121631	SMARTwire™ Socket x Blunt - 6 Ga. x 18'
	1704994	SMARTwire™ Socket x Blunt - 6 Ga. x 40' (For Farm Body with Hoist)
9.	1703231	Cable Tie - 8"
10.	1704378	Dielectric Connector Protector (not pictured)
11.	1131576	ShurLink EZR Remote
12.	1704751	Harness Lock Pin - 1/4" x 7/8"
13.	1127972	Solenoid Hinge Bracket (Receiver 1132042 Only)
14.	1127977	Spacer Tube - 11/16" x 5" (Receiver 1132042 Only)

**Shurlink™ Receiver for Tender Trailers**

15.	1109015	Conductor Plug Mtg (L) Bracket
16.	1115385	HD Dual-Cond Plug - Vert Pin
17.	1120670	SMARTwire™ Dual-Cond Socket x Socket - 6 Ga. x 3'6"
19.	1704827	SMARTwire™ Socket x Plug - 6 Ga. x 16'
20.	1119033	Dual-Cond Wire - 6 Ga x 25'

**Fasteners**

Item	Part #	Description
23.	1701045	Hex Head Cap Screw - 5/16" x 3/4"
24.	1700427	Flat Washer - 1/4"
25.	1704946	Top Lock Flange Nut - 5/16"
26.	1700407	Hex Nut - 3/8"
27.	1700434	Lock Washer - 3/8"
28.	1700400	Self-Tapping Screw - 3/8" x 1"
29.	1706093	Hex Head Cap Screw - 3/8" x 6"
30.	1703577	Stainless Flat Washer - 3/8"
31.	1704430	Cap Screw - 5/16" x 1" - SS
32.	1201237	Stainless Flat Washer - 5/16"
33.	1704431	Nylon Lock Nut - 5/16" - SS
34.	1705648	Nylon Lock Hex Nut - 3/8"
35.	1706120	Self-Tapping Screw - 1/4" x 1"

**Shurlink™ Receiver for Farm Tractors**

15.	1109015	Conductor Plug Mtg (L) Bracket
16.	1115385	HD Dual-Cond Plug - Vert Pin
19.	1704827	SMARTwire™ Socket x Plug - 6 Ga. x 16'
21.	1115386	HD Dual-Cond Socket - Vert Pin
22.	1704573	Sealing Boot - Socket Half Dual-Cond

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