



TARP SYSTEMS & ACCESSORIES

READ BEFORE INSTALLING

P/N 1125436 Rev. D



Steel Housing Arm System Belly Dumps, End Dumps, Dump Bodies & Pups

OWNER'S MANUAL

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WARRANTY



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Laker Road
Rochester, Kent ME1 3QX

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 locations 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 and operation.**
- 2. Stay clear of moving parts.**
- 3. Do not operate under low-hung power lines. Always check for overhead obstructions before opening or closing.**
- 4. Open and close tarp only at the job site.**
- 5. Face vehicle into wind when opening and closing tarp.**
- 6. Install tarp on axle to roll off the top and toward the rear of the truck.**
- 7. 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.

TABLE OF CONTENTS

Hardware Identification.....	4
Tarp Housing & Support Brackets	5-6
Locate Pivot Point.....	7
Spring Pivot.....	8
Arm Installation.....	9-10
Tarp Tube Assembly & Tarp.....	11-12
Rocker Switch.....	13-14
Wireless Receiver.....	15-16
Tension Arm	17-18
Return Arm Hold-Down.....	19
Troubleshooting Guide	20
Replacement Parts.....	23-27

TOOLS REQUIRED

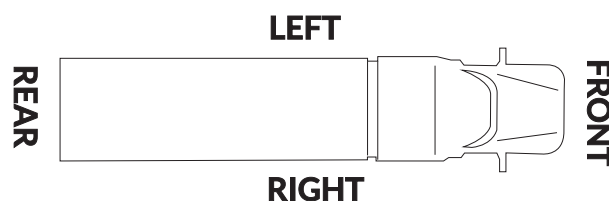
1. Wrenches - 1/2", 9/16", 3/4"
2. Ratcheting Socket Wrench
3. Sockets - 1/2", 9/16", 3/4"
4. Allen Wrenches - 1/8", 5/32", 3/16"
5. Drill Bits (metal cutting) - 5/16", 3/8", 1/2"
6. Center Punch
7. Hammer
8. Tape Measure (2)
9. Flat Head or Phillips Screwdriver
10. Grinder or File
11. Air or Electric Impact Wrench w/9/16" Socket
12. Metal Saw

Additional tools needed, depending on kit configuration:

1. Retaining Ring Pliers
2. Wrench or Nut Driver - 10mm
3. Large Pipe Wrench
4. Steel Welder
5. Aluminum Welder

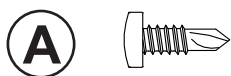
MAINTENANCE

- Spray all bearings with penetrating oil as needed.
- Grease spring bearings as needed.
- Brush springs with steel brush weekly to remove dirt and spray with penetrating oil.
- Tighten any 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

**CAUTION**

Read and understand owner's manual before installing or using system. Failure to follow operating instructions could result in damage to system or personal injury.



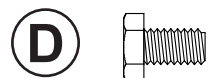
1700398 Self-Drilling Screw - 1/4" x 1/4"



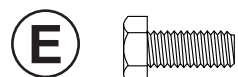
1703327 Button Hd. Cap Screw - 1/4" x 5/8"



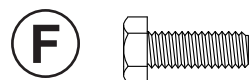
1700403 Self-Tapping Screw - 1/4" x 3/4"



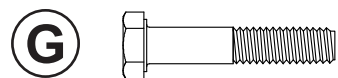
1703171 Cap Screw - 5/16" x 1/2"



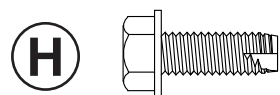
1701045 Cap Screw - 5/16" x 3/4"



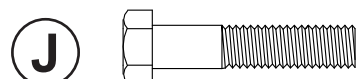
1702926 Cap Screw - 5/16" x 7/8"



1704451 Cap Screw - 5/16" x 1-5/8"



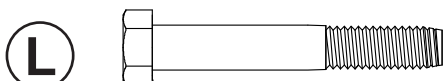
1700400 Self-Tapping Screw - 3/8" x 1"



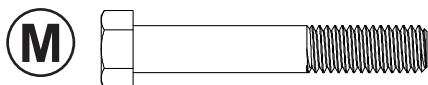
1700369 Cap Screw - 3/8" x 1-3/4"



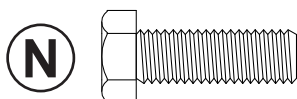
1704057 Cap Screw - 3/8" x 2"



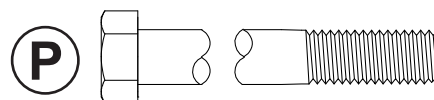
1702573 Cap Screw - 3/8" x 2-1/2"



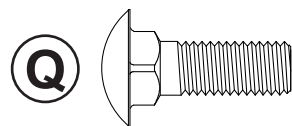
1801025 Cap Screw - 7/16" x 2-3/4"



1702075 Cap Screw - 1/2" x 1-1/2"



1704656 Cap Screw - 1/2" x 4"



1800356 Carriage Bolt - 1/2" x 1-1/2"



1703290 Square Nut - 1/4"



1700411 Hex Nut - 5/16"



1700419 Nylon Lock Nut - 5/16"



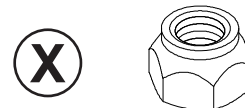
1704454 Nylon Lock Nut - Thin - 5/16"



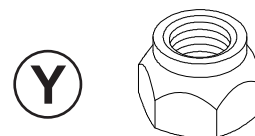
1700407 Hex Nut - 3/8"



1701580 Nylon Lock Nut - 3/8"



1800329 Nylon Lock Nut - 7/16"



1702115 Nylon Lock Nut - 1/2"



1700427 Flat Washer - 1/4"



1703218 Fender Washer - 1/4" x 1"



1700428 Flat Washer - 5/16"



1700433 Lock Washer - 5/16"



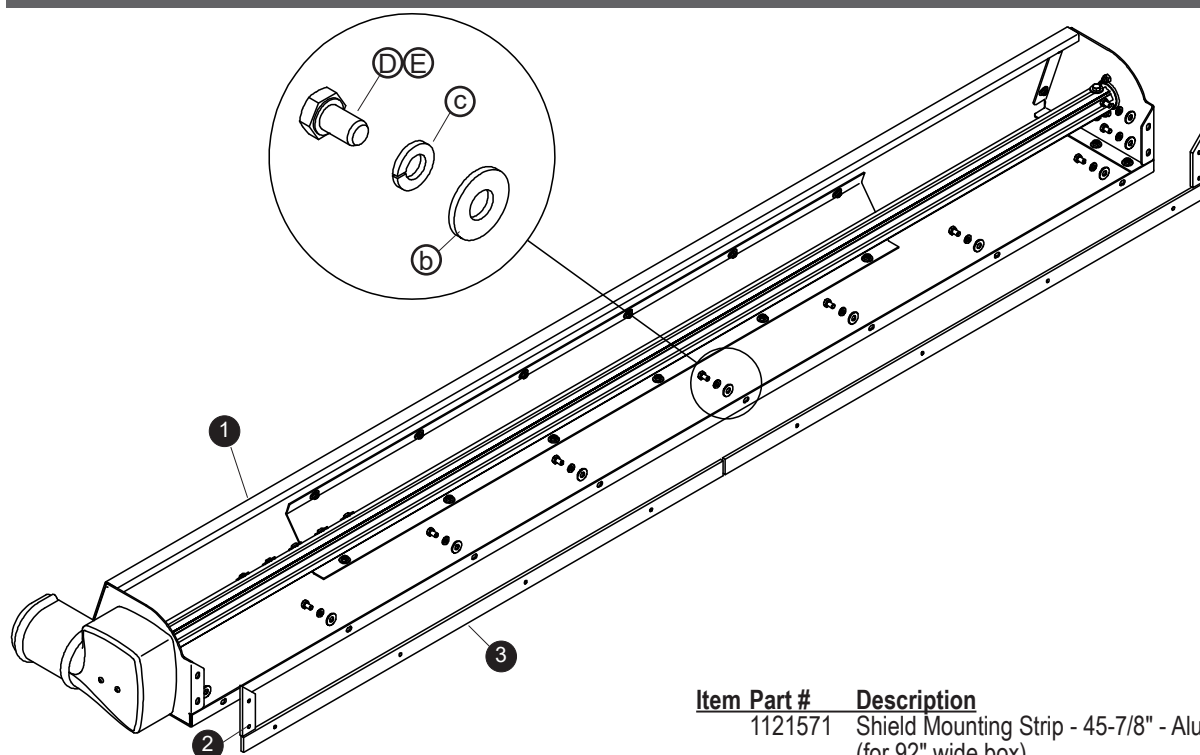
1701176 Flat Washer - SAE - 3/8"



1700434 Lock Washer - 3/8"

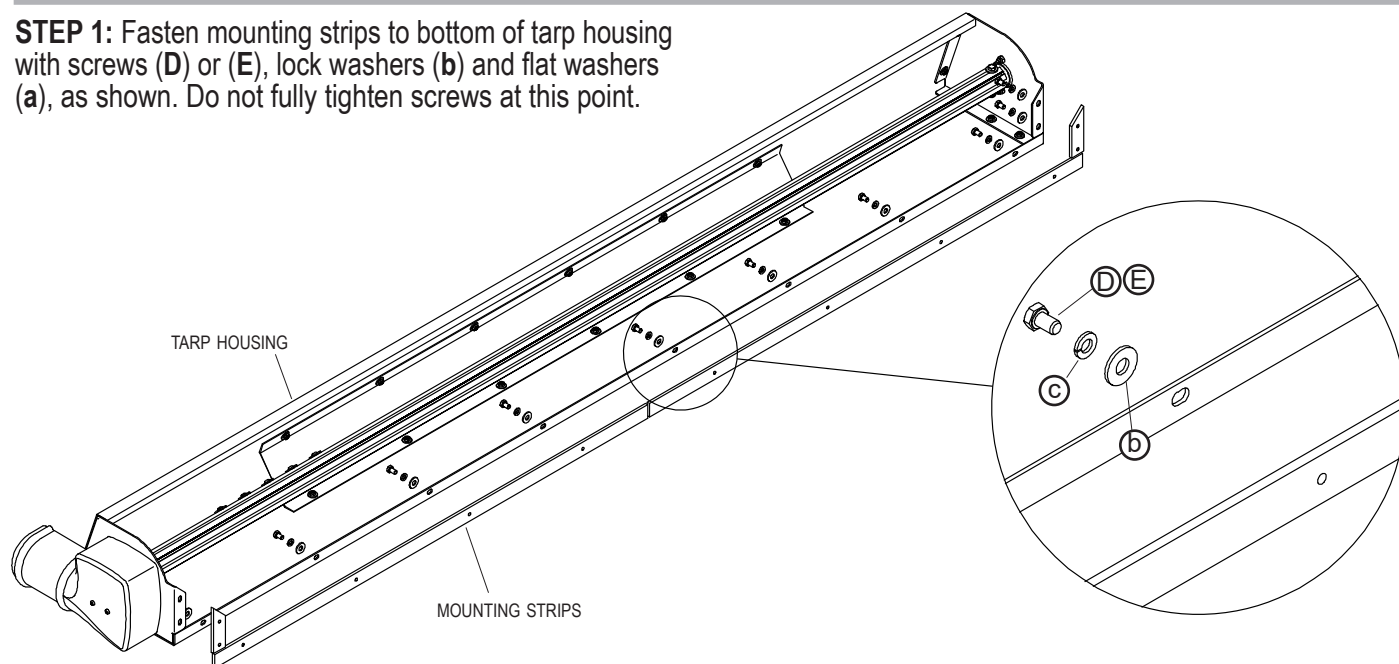


1702114 Flat Washer - 1/2"



Item	Part #	Description
1.	1125891	Tarp Housing Assembly - Bolted Steel - 88"
	1125420	Tarp Housing Assembly - Bolted Steel - 92"
	1125422	Tarp Housing Assembly - Bolted Steel - 96"
	1125425	Tarp Housing Assembly - Bolted Steel - 102"
2.	1121361	End Panel Mounting Strip - Steel
3.	1121961	Shield Mounting Strip - 43-7/8" - Steel (for 88" wide box)
	1121962	Shield Mounting Strip - 43-7/8" - Aluminum (for 88" wide box)
	1121570	Shield Mounting Strip - 45-7/8" - Steel (for 92" wide box)
	1121359	Shield Mounting Strip - 47-7/8" - Steel (for 96" wide box)
	1121362	Shield Mounting Strip - 47-7/8" - Aluminum (for 96" wide box)
	1121360	Shield Mounting Strip - 50-7/8" - Steel (for 102" wide box)
	1121363	Shield Mounting Strip - 50-7/8" - Aluminum (for 102" wide box)
E.	1701045	Cap Screw - 5/16" x 3/4" (for aluminum strips)
D.	1703171	Cap Screw - 5/16" x 1/2" (for steel strips)
b.	1700428	Flat Washer - 5/16"
c.	1700433	Lock Washer - 5/16"

STEP 1: Fasten mounting strips to bottom of tarp housing with screws (D) or (E), lock washers (b) and flat washers (a), as shown. Do not fully tighten screws at this point.

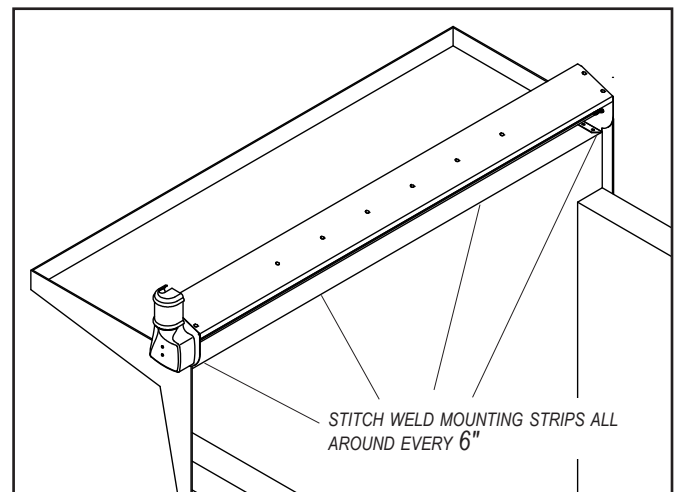
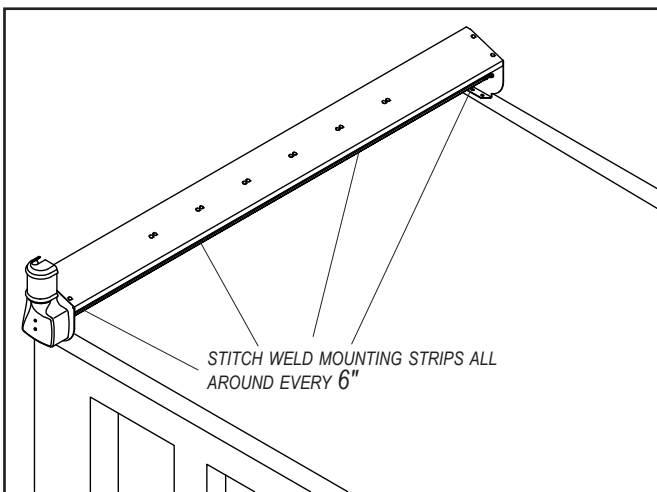
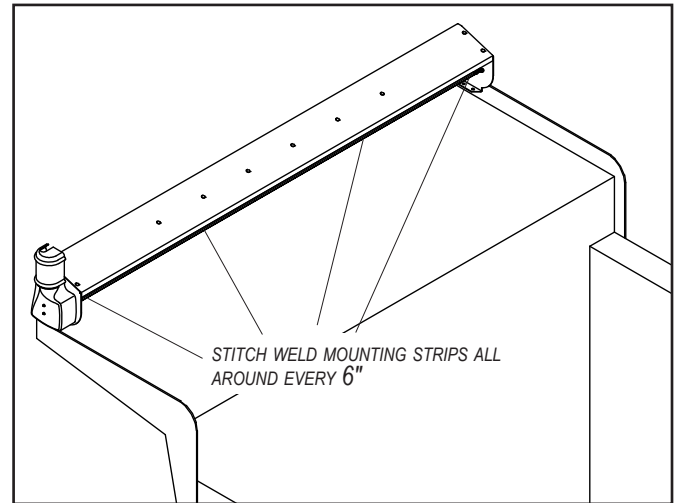
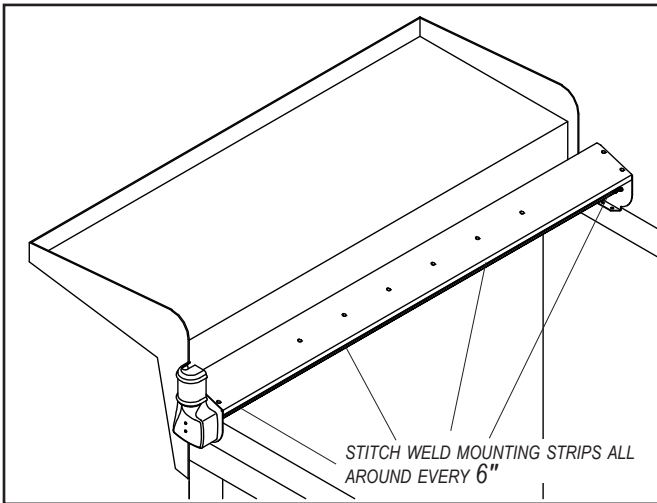


STEP 2: Place tarp housing in desired mounting location (four options are shown here). Stitch weld mounting strips to truck box every 6 inches all around. Securely tighten fasteners holding tarp housing to mounting strips.

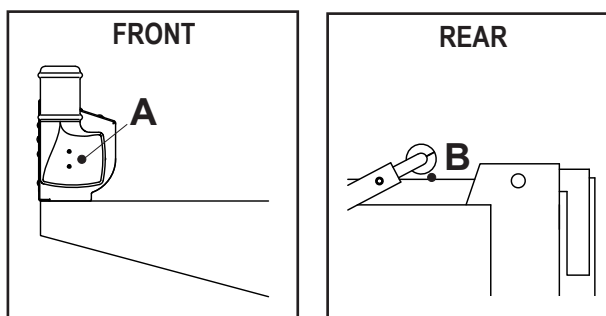
NOTE: Brackets may need to be fabricated in order to mount tarp housing as desired.

NOTE: To prevent rust, paint all exposed metal, such as weld seams and/or metal exposed by grinding or cutting with corrosion-resistant paint (for unpainted steel boxes only).

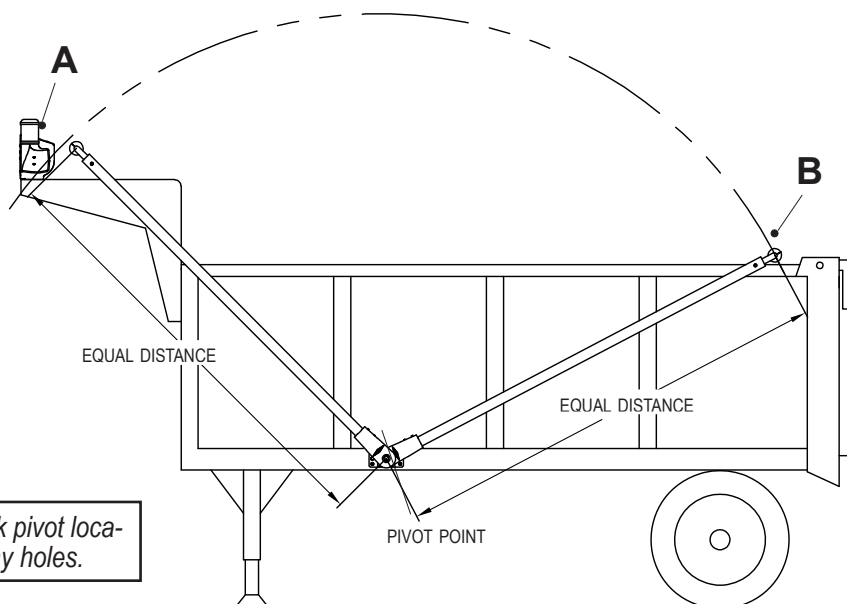
NOTE: Tarp arms must not interfere with cab doors, exhaust stacks or loading process.



STEP 1: Locate point A and B. Point A is center of tarp axle. Point B is desired resting point for tarp tube. Refer to diagram for locations of points A and B.

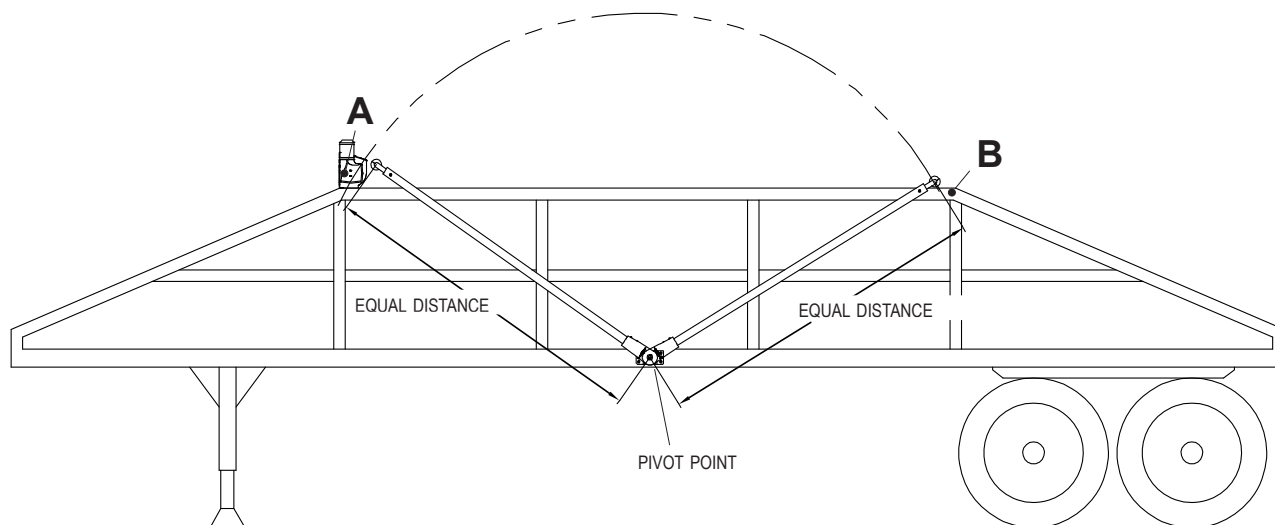


STEP 2: Locate and mark pivot point on bottom rail at equal distance between points A and B.

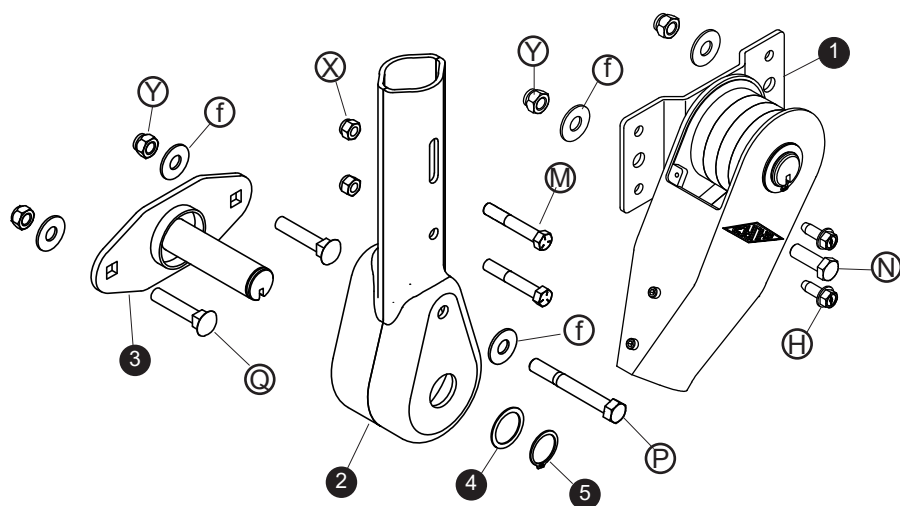


NOTE: Double check pivot location before drilling any holes.

NOTE: To determine pivot point on opposite side of truck, first make sure truck is square. Transfer measurement from point A to pivot point over to opposite side of truck.



NOTE: Tapered, wedged, rounded or sloped trailers may require additional bracketry to offset and square arms with trailer.



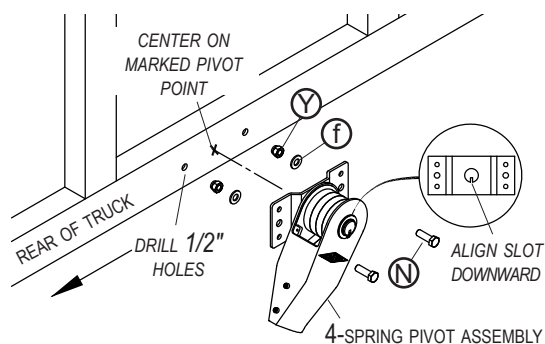
Item	Part #	Description
1.	1119096	4-Spring Pivot Assembly - Driver Side
	1119097	4-Spring Pivot Assembly - Passenger Side
2.	1801030	Clamshell Pivot Mount - Driver Side
	1801030	Clamshell Pivot Mount - Passenger Side
3.	1800531	Pivot Mount - Straight
4.	1800977	Shim - 1-1/4" x .047"
5.	1800978	Retaining Ring - 1-1/4"
H.	1700400	Self-Tapping Screw - 3/8" x 1"
M.	1801025	Cap Screw - 7/16" x 2-3/4"
N.	1702075	Cap Screw - 1/2" x 1-1/2"
P.	1704656	Cap Screw - 1/2" x 4"
Q.	1800356	Carriage Bolt - 1/2" x 1-1/2"
X.	1800329	Nylon Lock Nut - 7/16"
Y.	1702115	Nylon Lock Nut - 1/2"
f.	1702114	Flat Washer - 1/2"

4-SPRING PIVOT ASSEMBLY

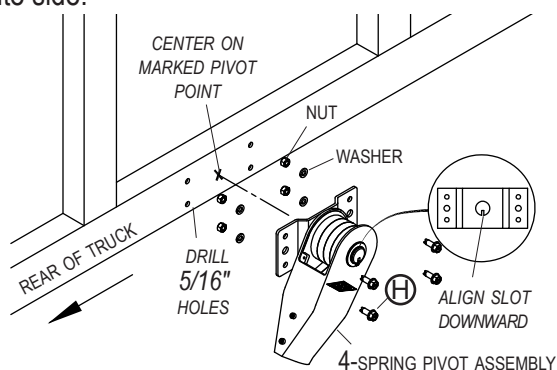
STEP 1: Clamp pivot assembly to box, centering shaft on marked pivot point with slot in shaft facing downward.

NOTE: Double check pivot location before drilling any holes.

OPTION A - Using holes in pivot bracket as guide, mark and drill 1/2 inch holes in box. Fasten assembly to box with screws (N), washers (f) and nuts (Y). Repeat on opposite side.

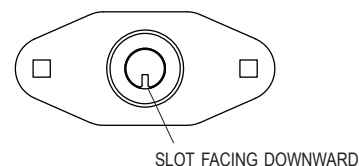


OPTION B - Fasten to blind holes. Drill 5/16 inch holes in box. Fasten assembly to box with screws (H) and, if possible, secure with washers and nuts. Repeat on opposite side.

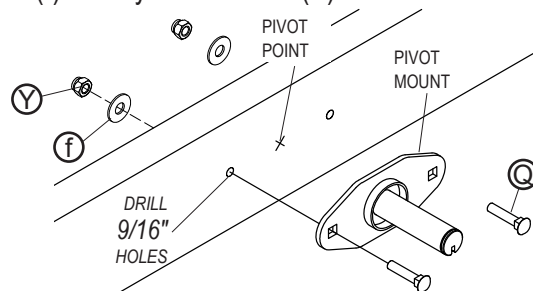


5-SPRING CLAMSHELL PIVOT ASSEMBLY

STEP 1: Align slots to face downward on pivot pins on both sides of truck.



STEP 2: Bolt option. Align center of pivot mount plate with pivot point on truck. Use plate as guide to mark hole locations on both sides of truck. Drill 9/16 inch holes and fasten pivot mounts to truck with carriage bolts (Q), flat washers (f) and nylon lock nuts (Y).

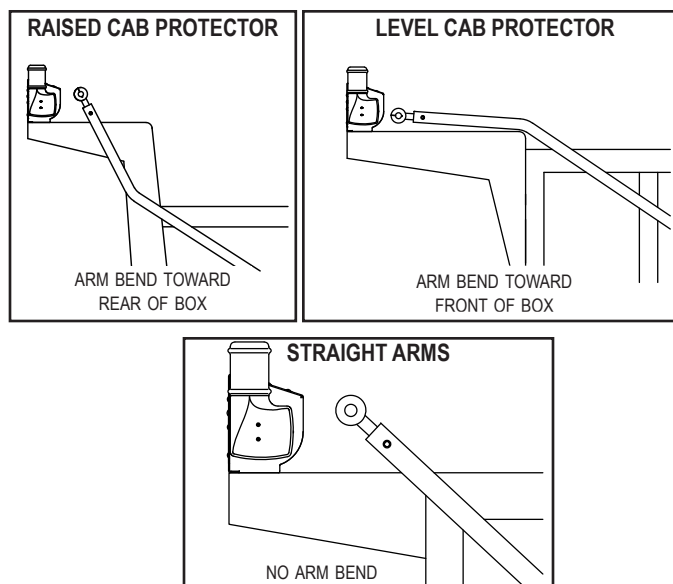


Weld option. Align center of mounting plate with pivot point and weld pivot mount in place.

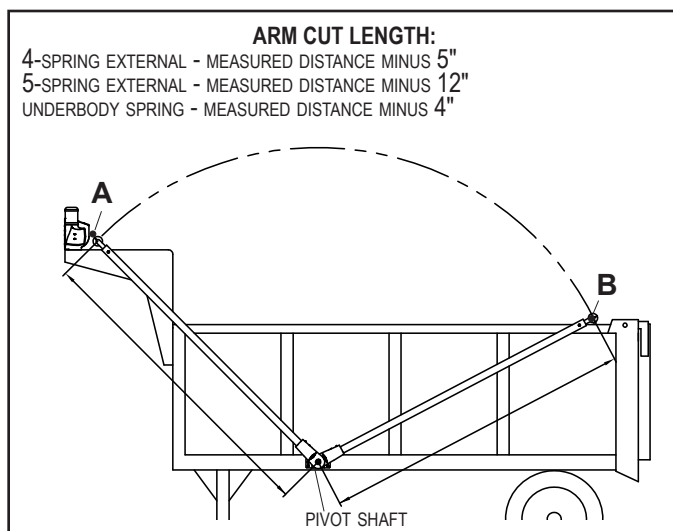
Item	Part #	Description
1.	1704465	Aluminum Return Arm - 10' w/2' Bend
	1704466	Aluminum Return Arm - 12' w/2' Bend
	1704467	Aluminum Return Arm - 14' w/2' Bend
	1704486	Aluminum Return Arm - 16'
	1704487	Aluminum Return Arm - 18'
	1704488	Aluminum Return Arm - 20'
M.	1801025	Cap Screw - 7/16" x 2 3/4"
X.	1800329	Nylon Lock Nut - 7/16"
d.	1701176	Flat Washer - 3/8"

NOTE: Determine desired length and orientation of arms before attaching arms to spring pivot.

STEP 1: Determine best orientation for your application.



STEP 2: Determine arm length. Measure from center of pivot shaft to desired resting points for arm at front and rear of box. Find distance between point A and pivot shaft and between point B and pivot shaft. Calculate and cut arm length using shorter of two distances.

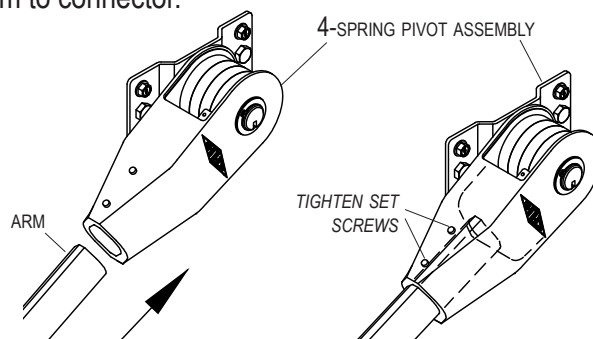


⚠ WARNING

Apply arm warning decals (P/N 1704561) on box near spring pivot. Arms are under spring tension while springs are engaged. Use caution while assembling or disassembling arms.

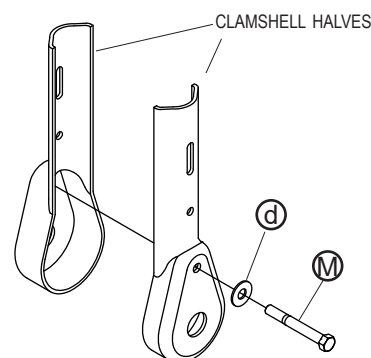
4-SPRING PIVOT ASSEMBLY

STEP 1: Slide pivot arm into 4-spring pivot assembly until it contacts arm stop. Tighten set screws to secure arm to connector.

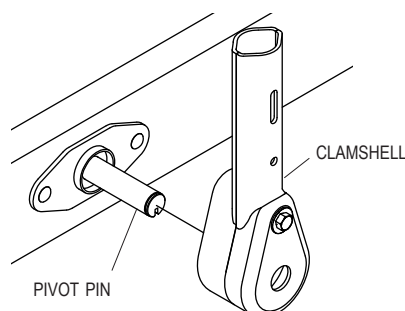


5-SPRING CLAMSHELL PIVOT ASSEMBLY

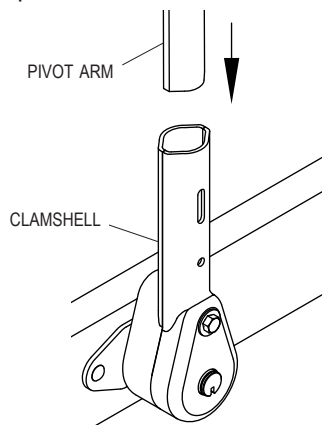
STEP 1: Fasten clamshell halves together with screw (M) and washer (d). Do not install springs at this time.



STEP 2: Slide clamshell assembly onto pivot pin.



STEP 3: Insert pivot arm into clamshell.

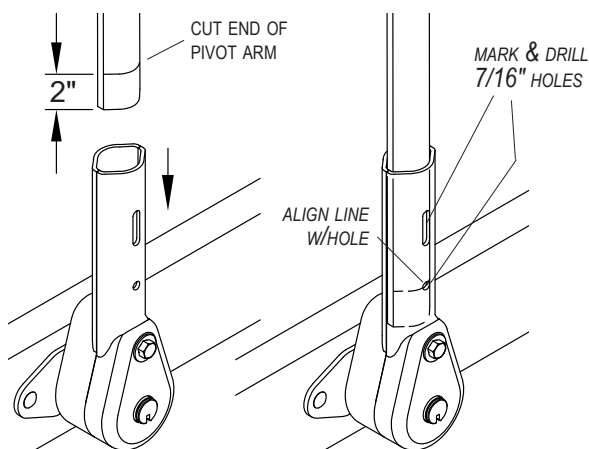


STEP 4: To determine correct arm length, insert tarp tube elbow into top of arm and rotate arm to both front and rear of truck.

NOTE: Position crosspiece far enough back on truck so tarp fully covers load without interfering with tailgate operation.

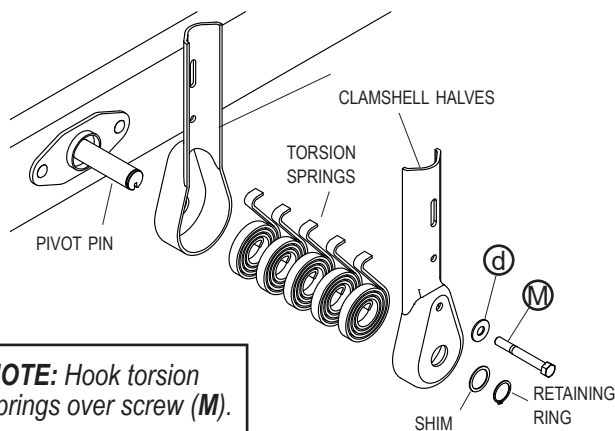
STEP 5: Disassemble arm from clamshell assembly. Cut arms to equal length, removing ends of arms that go into clamshell.

STEP 6: Draw line 2 inches from cut end of pivot arm. Insert arm into clamshell and align line on arm with lower hole in clamshell.



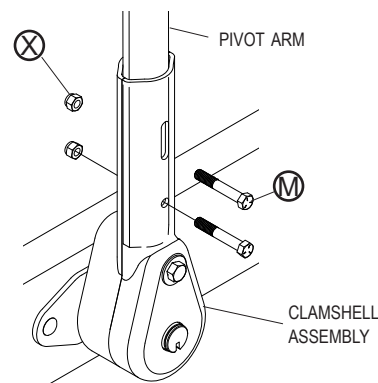
STEP 7: Using holes in clamshell as guide, mark and drill 7/16 inch holes in both arms, then disassemble clamshells.

STEP 8: Assemble clamshell halves, torsion springs, shim and retaining ring onto pivot pin. Fasten with screw (M) and washer (d) apply Loctite to threads.



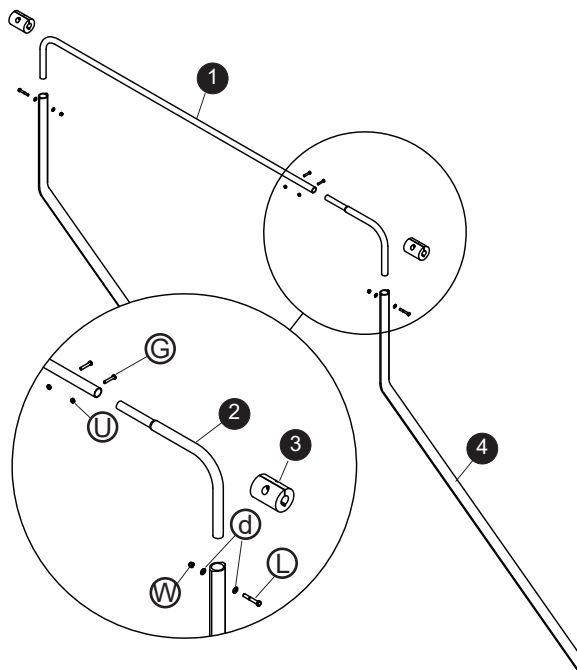
NOTE: Hook torsion springs over screw (M).

STEP 9: Slide pivot arms into clamshell assemblies and fasten with screws (M) and lock nuts (X).



STEP 10: Ensure pivot arms are not binding or rubbing against truck. Adjust pivot mounts or arms as needed to provide clearance.

Item	Part #	Description
1.	1118951	Tarp Tube Crossover
2.	1118952	Tarp Tube Elbow
3.	1704458	Rubber Bumper - 3-1/4" x 4-1/2"
4.	1704465	Aluminum Return Arm - 10' w/2' Bend
	1704466	Aluminum Return Arm - 12' w/2' Bend
	1704467	Aluminum Return Arm - 14' w/2' Bend
	1704486	Aluminum Return Arm - 16'
	1704487	Aluminum Return Arm - 18'
	1704488	Aluminum Return Arm - 20'
G.	1704451	Cap Screw - 5/16" x 1-5/8"
L.	1702573	Cap Screw - 3/8" x 2-1/2"
U.	1704454	Nylon Lock Nut - Thin - 5/16"
W.	1701580	Nylon Lock Nut - 3/8"
d.	1701176	Flat Washer - 3/8"

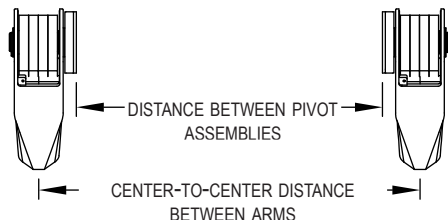


STEP 1: Determine finished tarp tube length. Measure center-to-center distance between tarp arms.

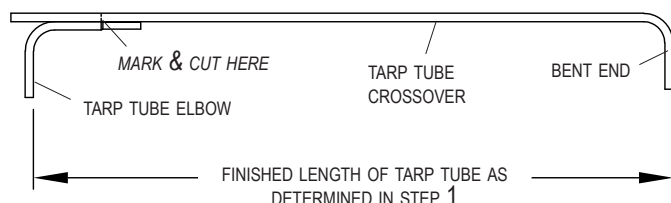
EXTERNAL SPRINGS:

4-SPRING TARP TUBE LENGTH = INSIDE DISTANCE BETWEEN PIVOT ASSEMBLIES + 5"

5-SPRING TARP TUBE LENGTH = INSIDE DISTANCE BETWEEN PIVOT ASSEMBLIES + 5 3/8"

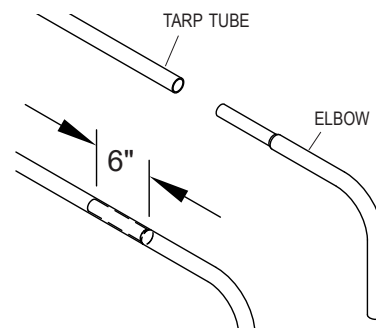


STEP 2: Overlap tarp tube elbow and tarp tube crossover as shown. Hook tape measure over bent end of tarp tube and measure to inside edge of elbow. Adjust position of elbow along tarp tube until elbow is positioned to attain finished tarp tube length as determined in STEP 1. Mark and cut tarp tube as shown.

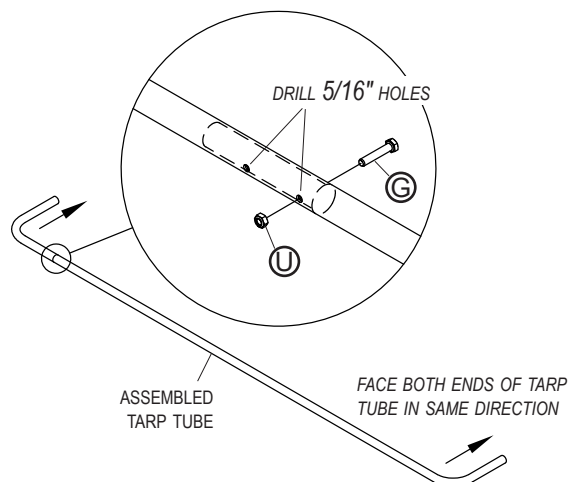


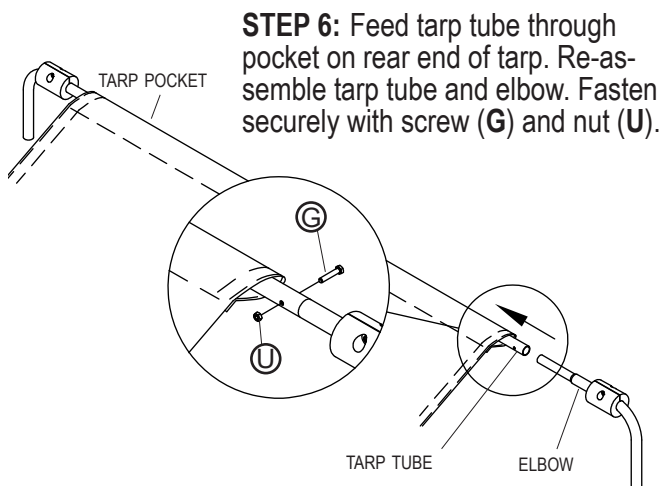
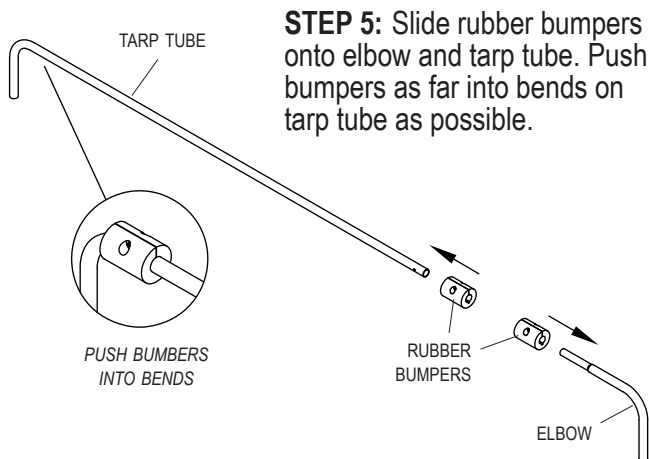
STEP 3: Insert 6 inch elbow into tarp tube.

NOTE: Deburr inside of tarp tube or outside of elbow if elbow will not easily slide into tarp tube.



STEP 4: Lay assembled tarp tube on flat surface with ends of tube laying flat and facing same direction. Drill two 5/16 inch holes on tarp tube side of joint. Fasten with screw (G) and nut (U).

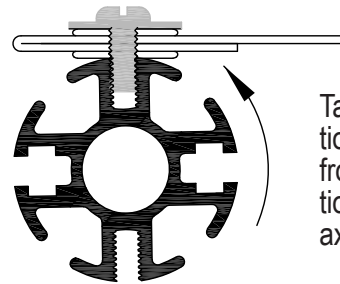
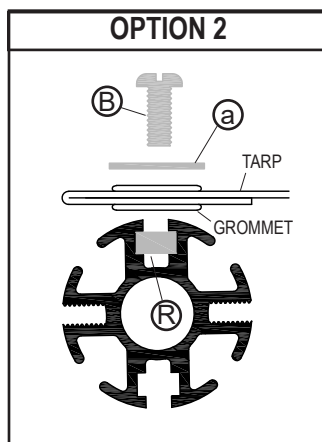
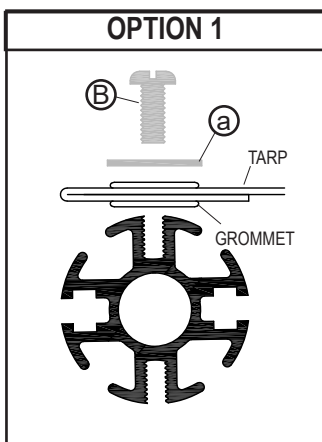




STEP 7: Lay front edge of tarp across tarp axle and center tarp with box (cab guard may be off center). Start at center and work toward edges, pulling tarp tight.

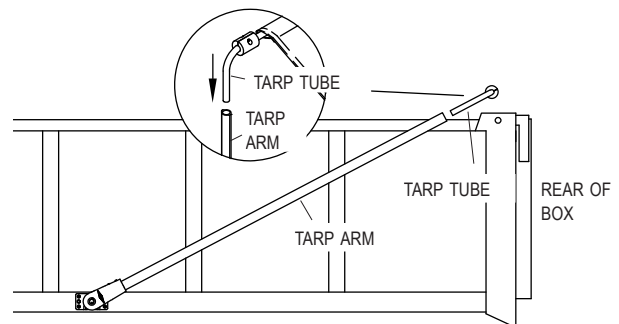
Option 1 - Fasten screws (B) through washers (a) and grommets into threaded groove.

Option 2 - Install nuts (R) into axle groove, then fasten screws (B) through washers (a), grommets and nuts (R).

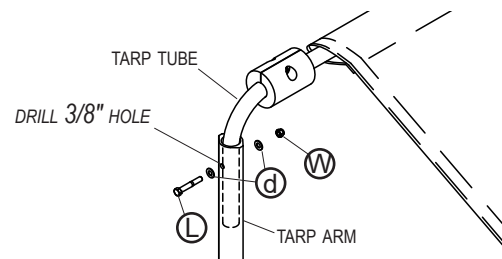


STEP 8: Position tarp arms at top rear of box. Insert ends of tarp tube into arms. Square up tarp tube with box by adjusting distance where tarp tube enters arms.

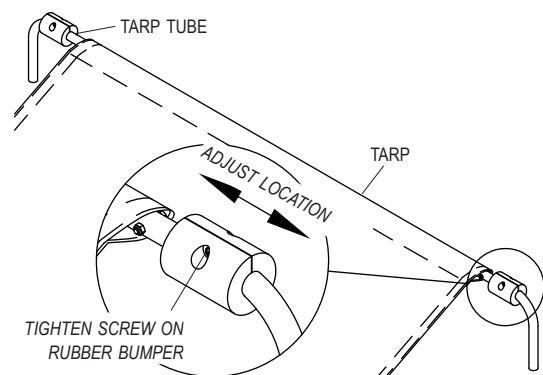
NOTE: First insert tarp tube as far as possible into tarp arms. Pull ends of tarp tube slightly out of each arm as needed to align tarp tube squarely across box.



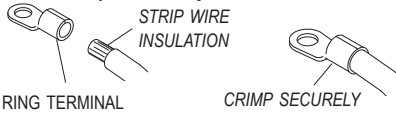
STEP 9: With arms equally spaced from sides of box, drill 3/8 inch hole through each tarp arm and tarp tube. Fasten securely with screw (L), washer (d) and nut (U).



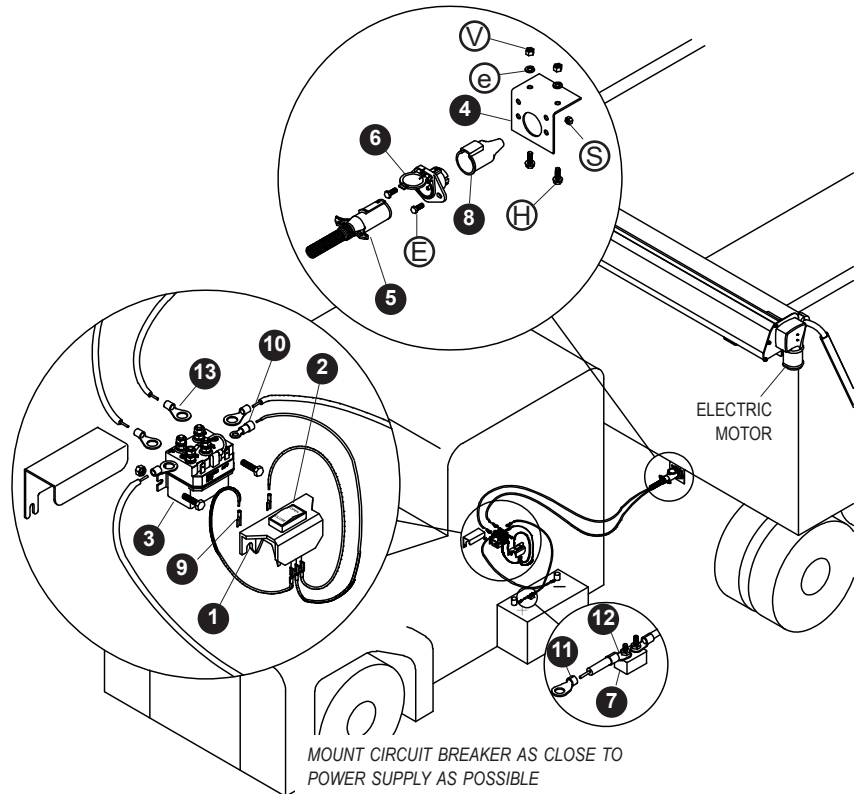
STEP 10: Center tarp on tarp tube and adjust location of rubber bumpers as desired. Tighten screws on rubber bumpers to secure bumpers to tarp tube.



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

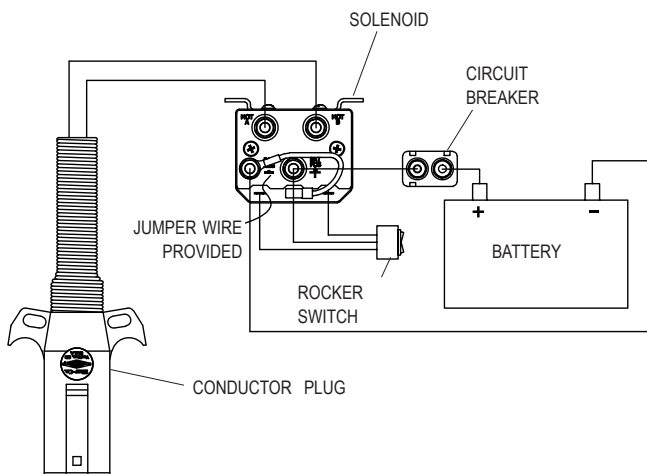


Item	Part #	Description
1.	1703661	Rocker Switch Mounting Bracket
2.	1116020	Rocker Switch
3.	1703845	Motor-Reversing Solenoid
4.	1109015	Mounting Bracket
5.	1115385	Heavy-Duty Dual-Conductor Plug
6.	1115386	Heavy-Duty Dual-Conductor Socket
7.	1703480	50-Amp Auto-Reset Circuit Breaker
8.	1704573	Conductor Socket Sealed Boot
9.	1703659	Push-On Terminal - 14 Ga. 1/4"
10.	1704153	Ring Terminal - 14 Ga. x 1/4" Stud
11.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud
12.	1703245	Ring Terminal - 6 Ga. x #10 Stud
13.	1702707	Ring Terminal - 6 Ga. 1/4 Stud
E.	1701045	Cap Screw - 5/16" x 3/4"
H.	1700400	Self-Tapping Screw - 3/8" x 1"
S.	1700411	Hex Nut - 5/16"
V.	1700407	Hex Nut - 3/8"
e.	1700434	Lock Washer - 3/8"

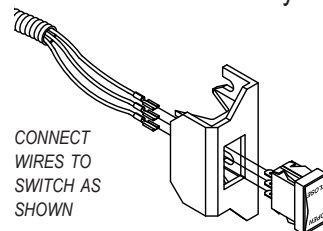


STEP 1: Circuit breaker and battery. Mount circuit breaker as close as possible to battery or power supply.

STEP 2: Mount solenoid. Mount solenoid in suitable location - a ventilated area near battery is ideal. Determine best route for wire, usually along frame with existing wire harness. Run 6-ga. wire from conductor plug to solenoid and from power supply to solenoid as shown in diagram. Run 14-ga. wires from solenoid to switch.



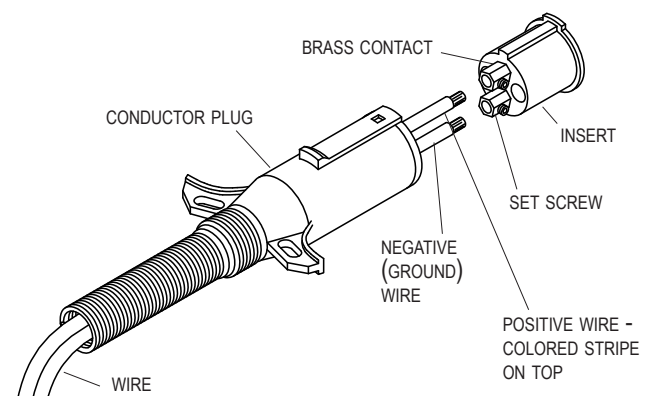
STEP 3: Rocker switch. Locate rocker switch in convenient operating location. Mount switch inside cab with bracket or install directly into dash panel.



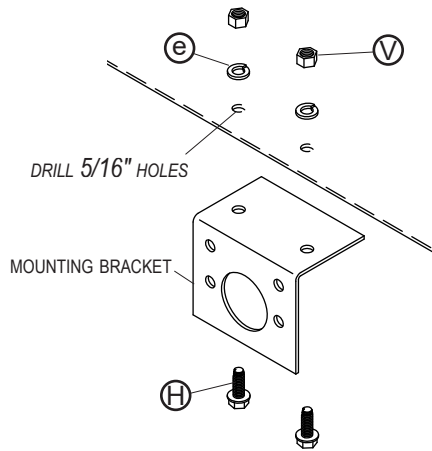
! WARNING

Apply operation warning decal (P/N 1704562) provided in same location as switch.

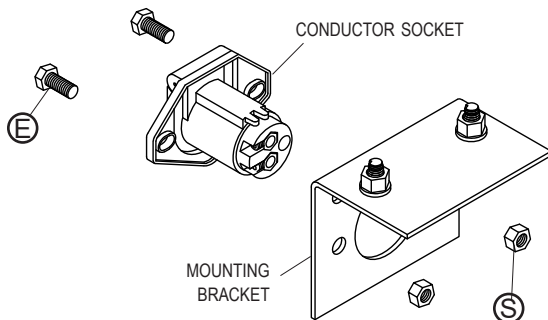
STEP 4: Conductor plug. Unfasten and remove insert from conductor plug. Feed 6-ga. wire through plug and into brass contacts on insert. Tighten set screws to secure wires. Replace insert into conductor plug and secure screw.



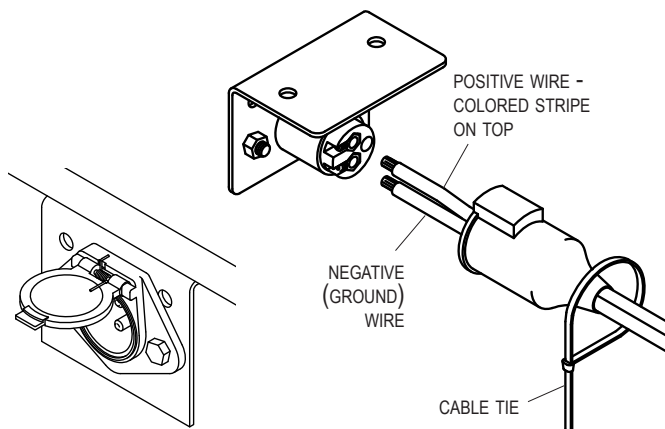
STEP 1: Mounting bracket. Mount bracket at suitable location on front of truck, usually near existing plugs. Mark and drill 5/16 inch holes and fasten with self-tapping screws (H), lock washers (e) and nuts (V).



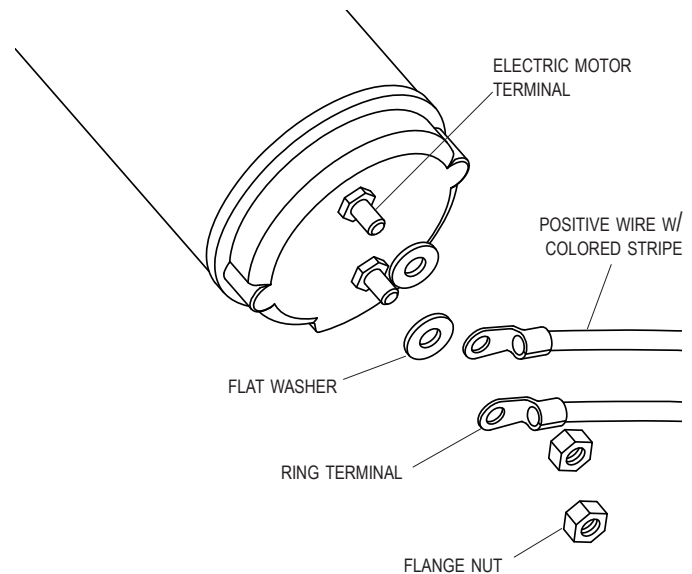
STEP 2: Conductor Socket. Fasten conductor socket into mounting bracket with screws (E) and nuts (S).



Run 6-ga. wire from motor and slide wire through sealed boot. Connect wire to conductor socket, aligning positive wire on socket with positive wire on conductor plug. Slide sealed boot against conductor socket and secure boot to wire with cable tie.



STEP 3: Connect wires to motor terminals.



CAUTION

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

Operation:

A. Check motor direction by activating switch to *OPEN*. If switch is running system backwards, change wire leads on motor to opposite connections.

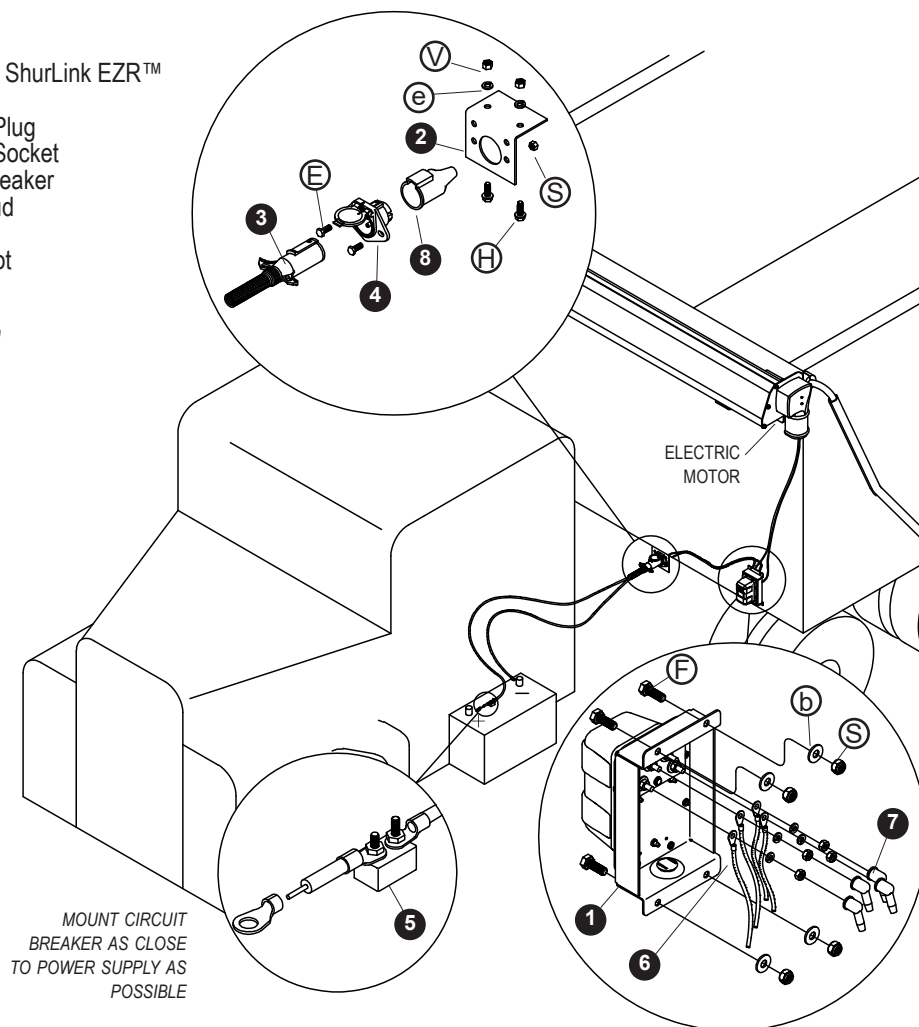
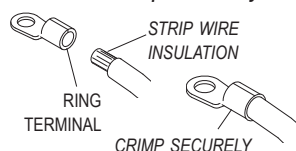
B. Close tarp: Push switch to *CLOSE* and hold. Observe tarp and release switch when tarp is fully closed.

C. Open tarp: Push switch to *OPEN* and hold. Observe tarp and release switch when tarp is fully open.

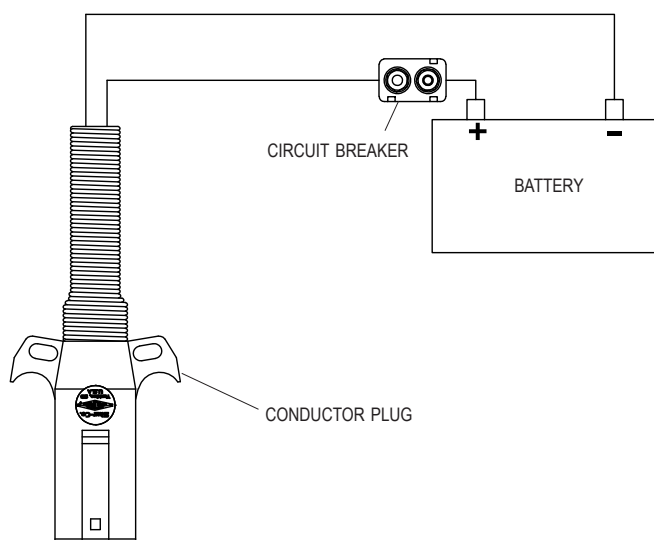
NOTE: Release switch at end of cycle or auto-reset circuit breaker will trip. After breaker resets, switch will activate motor again. To reduce unnecessary strain on tarp components, release switch at end of each cycle.

Item	Part #	Description
1.	1131582	Shur-Co® Wireless Receiver - ShurLink EZR™
2.	1109015	Mounting Bracket
3.	1115385	Heavy-Duty Dual-Conductor Plug
4.	1115386	Heavy-Duty Dual-Conductor Socket
5.	1703480	50-Amp Auto-Reset Circuit Breaker
6.	1702707	Ring Terminal - 6 Ga. 1/4" Stud
7.	1704330	Rubber Boot
8.	1704573	Conductor Socket Sealed Boot
E.	1701045	Cap Screw - 5/16" x 3/4"
F.	1702926	Cap Screw - 5/16" x 7/8"
H.	1700400	Self-Tapping Screw - 3/8" x 1"
S.	1700411	Hex Nut - 5/16"
T.	1700419	Lock Nut - 5/16"
V.	1700407	Hex Nut - 3/8"
b.	1700428	Flat Washer - 5/16"
e.	1700434	Lock Washer - 3/8"

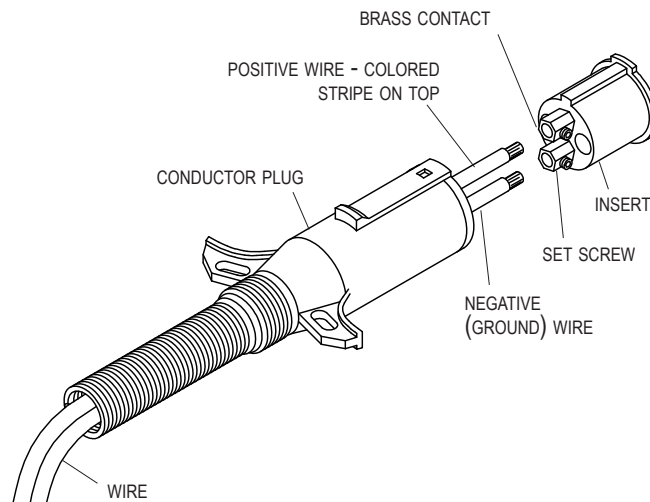
NOTE: Cut wires to length and strip only enough wire insulation to install ring terminals. Insert bare wire into ring terminals and crimp securely.



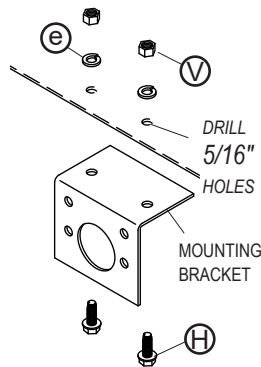
STEP 1: Circuit breaker and battery. Mount circuit breaker as close as possible to battery or power supply.



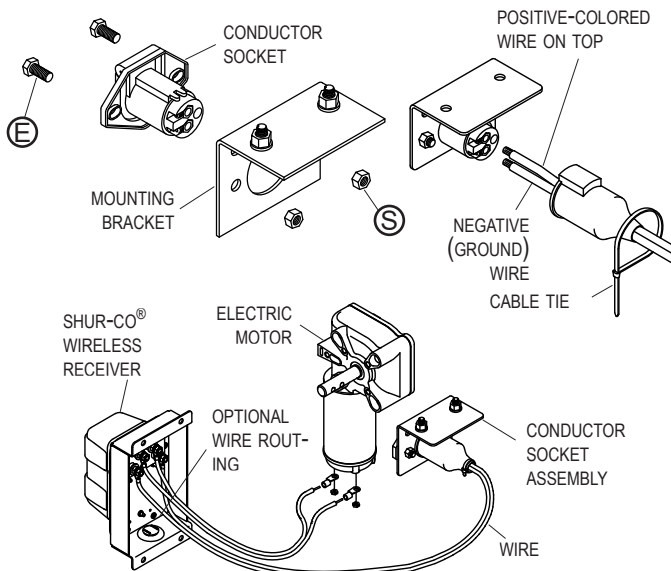
STEP 2: Conductor plug. Unfasten and remove insert from conductor plug. Feed 6-ga. wire through plug and into brass contacts on insert. Tighten set screws to secure wires. Replace insert into conductor plug and secure screw.



STEP 1: Mounting bracket. Mount bracket at suitable location on front of truck, usually near existing plugs. Mark and drill 5/16 inch holes and fasten with self-tapping screws (H), lock washers (e) and nuts (V).



STEP 2: Conductor socket. Fasten conductor socket into mounting bracket with cap screws (E) and nuts (S). Bring 6-ga. wire from motor through sealed boot. Connect wire ends to conductor socket, aligning positive wire on socket with positive wire on conductor plug. Slide sealed boot against conductor socket and secure boot to wire with cable tie.



⚠ WARNING

Apply operation warning decal (P/N 1704562) in same location as receiver.

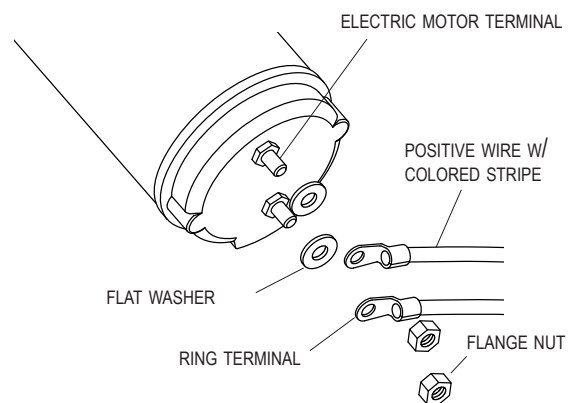
STEP 3: Shur-Co® wireless receiver. Run 6-ga. wire from electric motor to receiver. Route wire as desired. Insert end of this wire through rubber boots, then crimp 1/4 inch ring terminals onto wire ends. Remove nuts and lock washers from back of wireless receiver. Place positive wire on upper orange post and negative wire on upper black post. Secure lock washers and hex nuts. Coat with dielectric grease and install rubber boots over ring terminals.

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

Run 6-ga. wire from receiver to conductor socket through rubber boots. Crimp 1/4 inch ring terminals to wire ends. On back of wireless receiver, place positive wire on lower orange post and negative wire on lower black post. Secure with 1/4 inch lock washers and hex nuts. Coat with dielectric grease and install rubber boots over ring terminals. When wiring socket, align positive wire with positive wire on plug.

Mount wireless receiver at suitable location on front of truck. Mark and drill 11/32 inch holes and fasten with cap screws (F), flat washers (b) and lock nuts (T).

STEP 4: Connect wires to motor.



⚠ CAUTION

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

Operation:

A. Check motor direction by activating switch to *OPEN*. If switch is running system backwards, change wire leads on motor to opposite connections.

B. Close tarp: Push switch to *CLOSE* and hold. Observe tarp and release switch when tarp is fully closed.

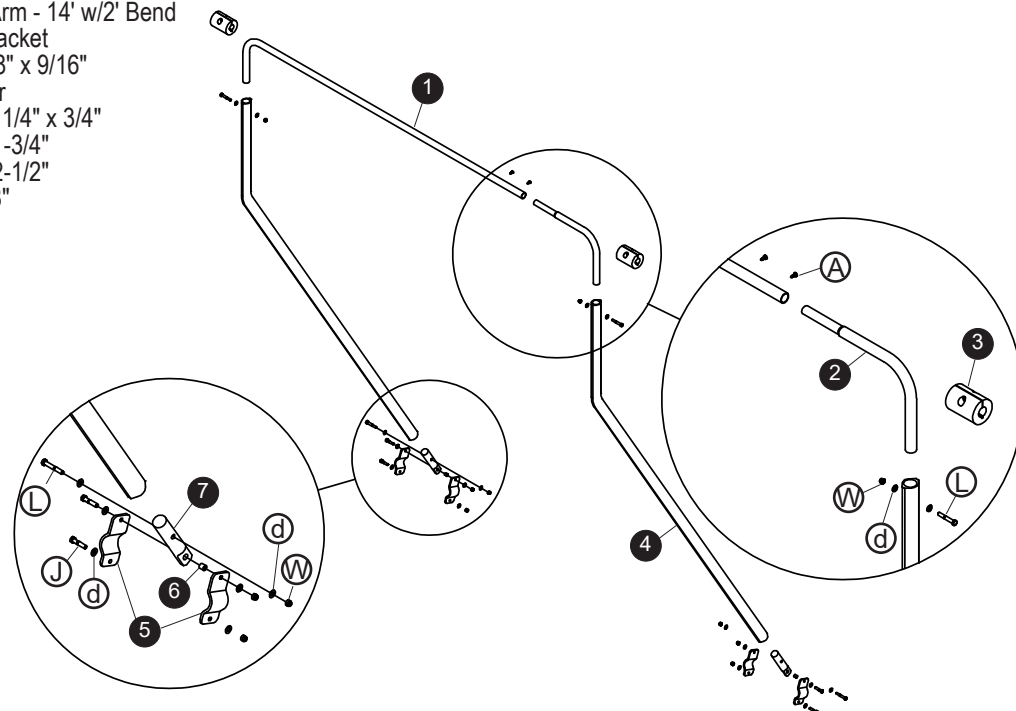
C. Open tarp: Push switch to *OPEN* and hold. Observe tarp and release switch when tarp is fully open.

D. Remote operation: Refer to remote instruction manual.

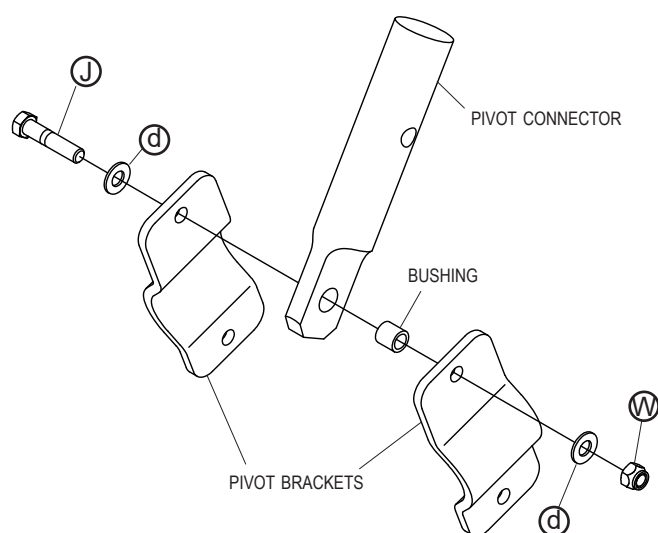
NOTE: Release switch at end of cycle or auto-reset circuit breaker will trip. After breaker resets, switch will activate motor again. To reduce unnecessary strain on tarp components, release switch at end of each cycle.

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

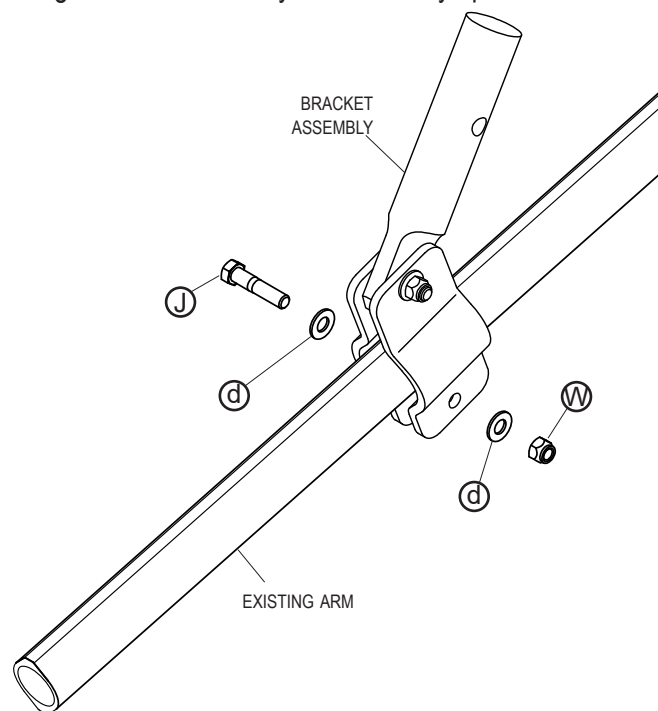
Item	Part #	Description
1.	1118951	Tarp Tube Crossover
2.	1118952	Tarp Tube Elbow
3.	1704458	Rubber Bumper - 3-1/4" x 4-1/2"
4.	1704465	Aluminum Tension Arm - 10' w/2' Bend
	1704466	Aluminum Tension Arm - 12' w/2' Bend
	1704467	Aluminum Tension Arm - 14' w/2' Bend
5.	1120104	Arm Pivot Clamp Bracket
6.	1704643	Bushing - 9/16" x 3/8" x 9/16"
7.	1704642	Arm Pivot Connector
A.	1700398	Self-Drilling Screw - 1/4" x 3/4"
J.	1700369	Cap Screw - 3/8" x 1-3/4"
L.	1702573	Cap Screw - 3/8" x 2-1/2"
W.	1701580	Nylon Lock Nut - 3/8"
d.	1701176	Flat Washer - 3/8"



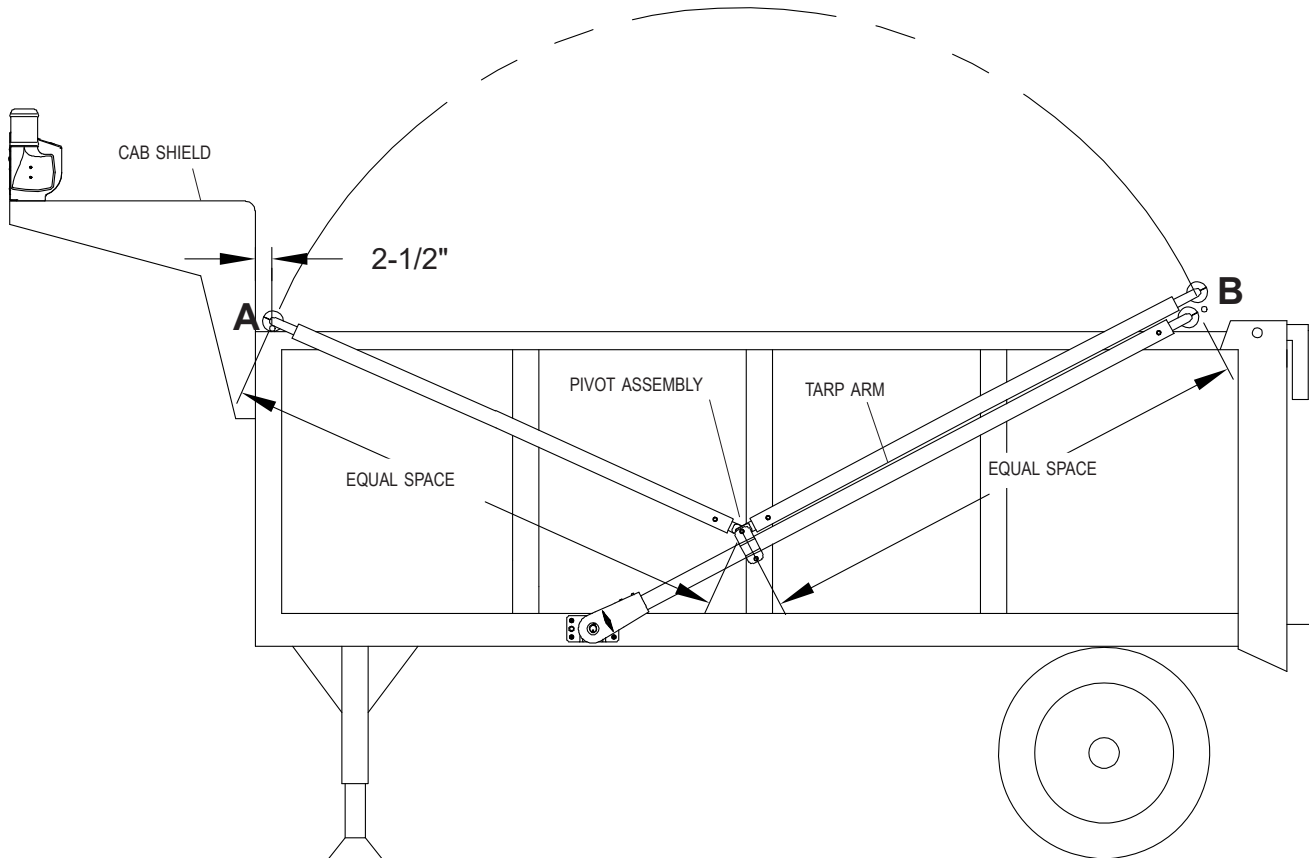
STEP 1: Assemble pivot connector to pivot bracket sections with screw (J), washers (d), spacer bushing and lock nut (W). Leave connection loose enough to allow brackets to slide over return arms.



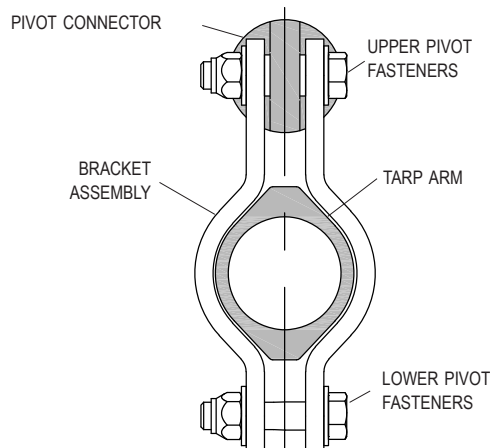
STEP 2: Install bracket assembly onto existing arm with screw (J), washers (d) and nut (W), leaving brackets loose enough to allow assembly to slide easily up and down arm.



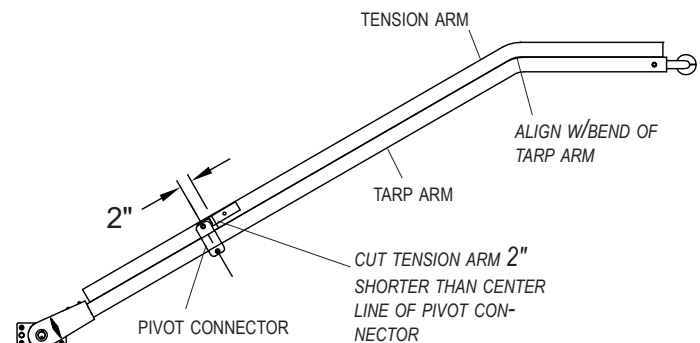
STEP 3: Determine tension arm pivot location. Move pivot assembly until isame distance from points A and B as shown. Allow 2-1/2 inches clearance between cab shield and point A. Point B is located at back surface of existing tarp tube.



STEP 4: Align bracket assembly vertically as shown and clamp brackets to tarp arm by first tightening upper, then lower pivot fasteners. Mount second pivot connector assembly in same location on other arm.

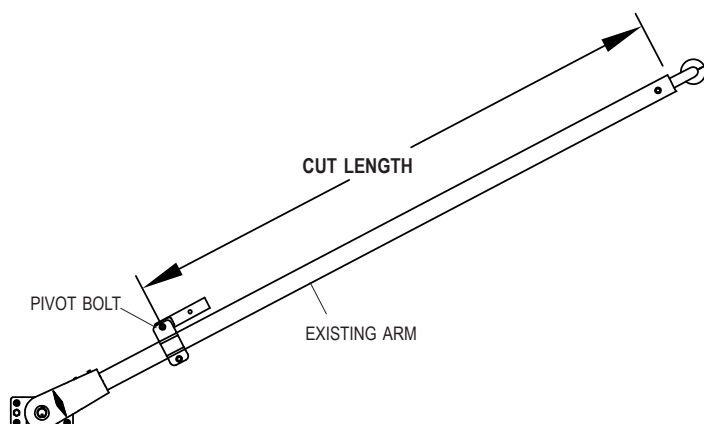


STEP 5A: Determine tension arm length (bent arms). Mark top of existing arm on center line of pivot connector. Remove pivot connector. Lay tension arm over top of tarp arm, aligning bend in tension arm with bend in tarp arm. Transfer mark onto tension arm at pivot point center line. Cut tension arms 2 inches shorter than center line of pivot connector.

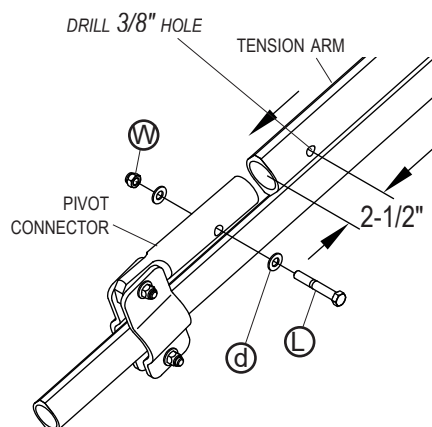


STEP 5B: Determine tension arm length (straight arms).

Measure from center of pivot bolt to upper end of existing arm.



STEP 6: Drill 3/8 inch hole 2-1/2 inches from lower end of tension arms. Fasten arms to pivot connectors with screws (L), washers (d) and nuts (W).



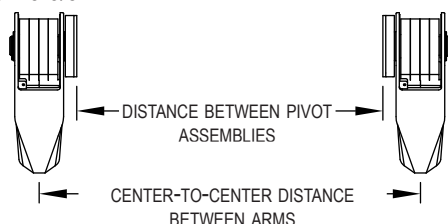
TIP - Strap arms together to keep tension arms in place until tarp tube is assembled.

STEP 7: Determine finished tension tube length. Measure center-to-center distance between tarp arms.

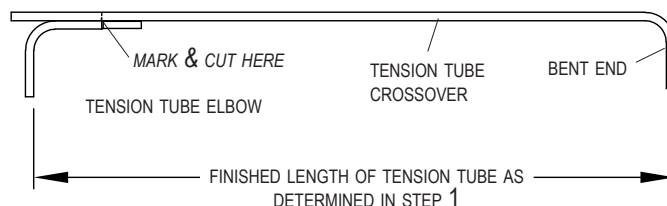
EXTERNAL SPRINGS:

4-SPRING TENSION TUBE LENGTH = INSIDE DISTANCE BETWEEN PIVOT ASSEMBLIES + 5"

5-SPRING TENSION TUBE LENGTH = INSIDE DISTANCE BETWEEN PIVOT ASSEMBLIES + 5-3/8"

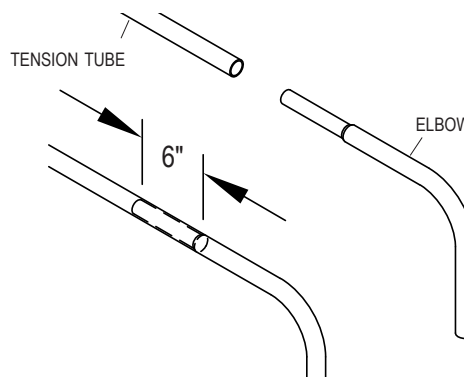


STEP 8: Overlap tension tube elbow and tension tube crossover as shown. Hook tape measure over bent end of tension tube and measure to inside edge of elbow. Adjust position of elbow along tension tube until elbow is positioned to attain finished tension tube length as determined in STEP 1. Mark and cut tension tube as shown.

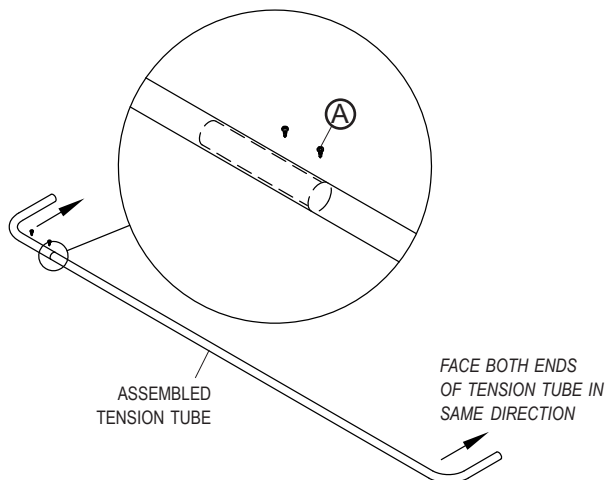


STEP 9: Insert elbow 6 inches into tube.

NOTE: Deburr inside of tension tube or outside of elbow if elbow will not slide easily into tension tube.

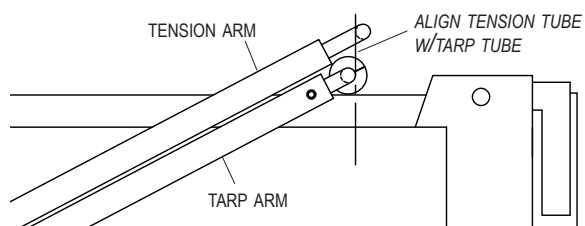
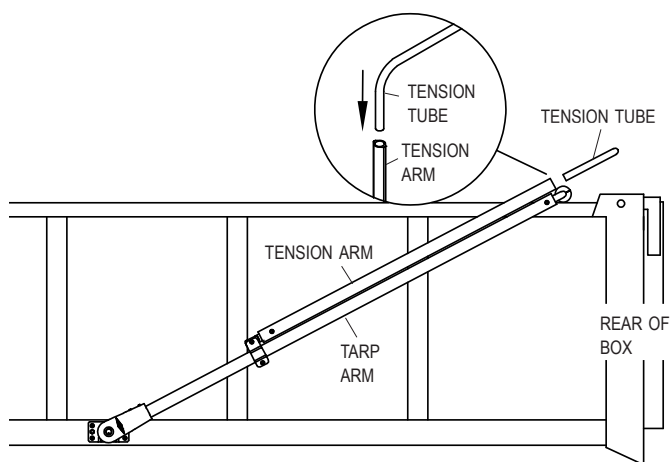


STEP 10: Lay assembled tension tube on flat surface with ends of tubes laying flat and facing same direction. Fasten with screws (A).

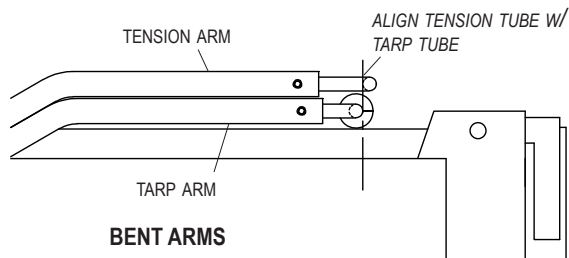


STEP 11: Position tension arms at top rear of box. Insert ends of tension tube into arms. Align tension tube with tarp tube by adjusting distance where tension tube enters arms. Align tension tube as shown in illustrations.

NOTE: First insert tension tube as far as possible into arms. Pull ends of tension tube slightly out of each arm as needed to align tension tube with tarp tube as shown.

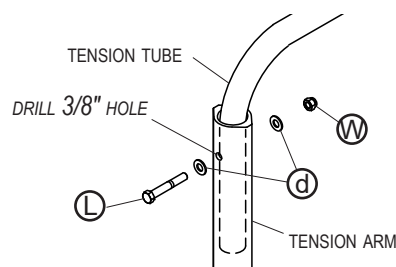


STRAIGHT ARMS

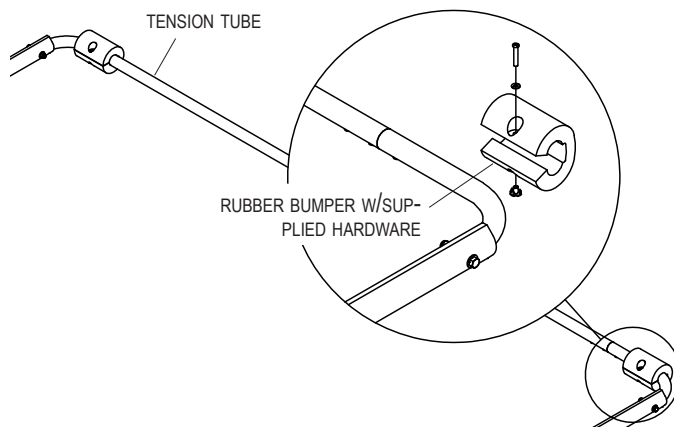


BENT ARMS

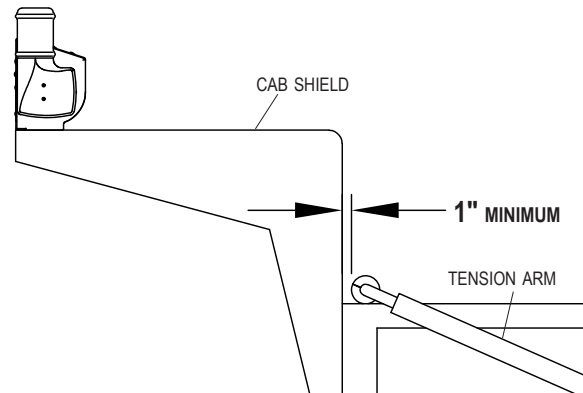
STEP 12: With arms equally spaced from sides of box, drill 3/8 inch hole through each arm and tension tube. Fasten securely with screws (L), washers (d) and nuts (W).



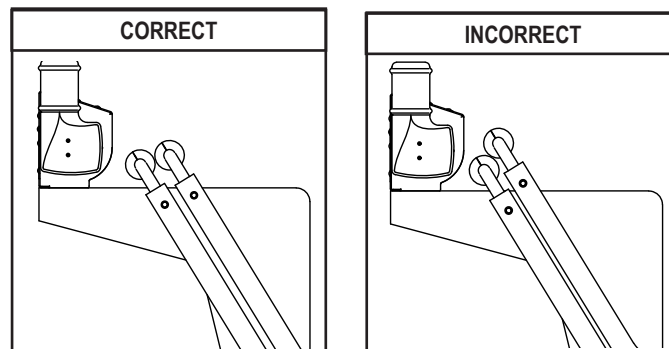
STEP 13: Rubber bumpers. Remove hardware from rubber bumpers. Pry bumpers open and slide bumpers onto tension tube. Align bumpers directly over bumpers on tarp tube and refasten hardware to secure bumpers to tension tube.

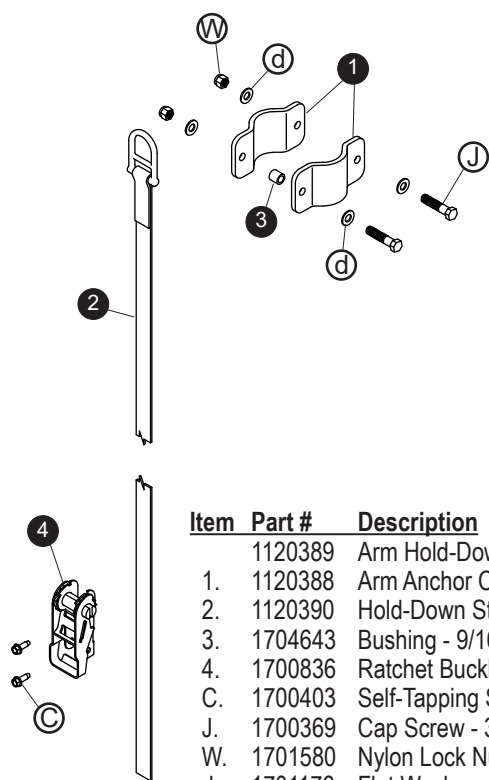


STEP 14: Rest tarp arms on rear of box and swing tension arms forward to rest tension tube on top rail behind cab shield. Verify there is about 1 inch clearance between rubber bumpers and cab shield. Check system operation. If tension tube contacts cab shield, adjust arm length or pivot location as needed.



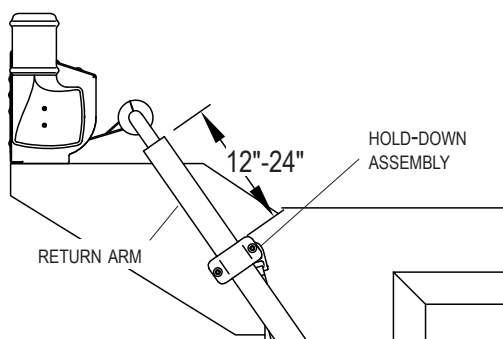
STEP 15: Check system operation by winding tarp to front of box. Make sure arms swing entirely open without binding. To verify correct installation, compare to diagram below.



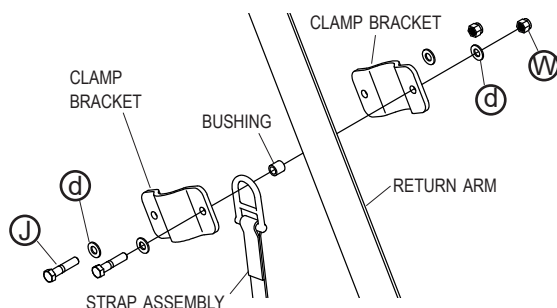


Item	Part #	Description
	1120389	Arm Hold-Down Kit
1.	1120388	Arm Anchor Clamp Bracket
2.	1120390	Hold-Down Strap Assembly
3.	1704643	Bushing - 9/16" x 9/16"
4.	1700836	Ratchet Buckle - 1"
C.	1700403	Self-Tapping Screw - 1/4" x 3/4"
J.	1700369	Cap Screw - 3/8" x 1-3/4"
W.	1701580	Nylon Lock Nut - 3/8"
d.	1701176	Flat Washer - 3/8"

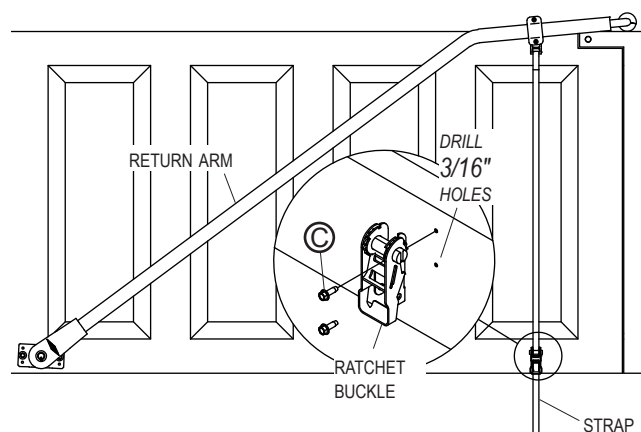
STEP 1: Locate return arm hold-down assemblies 12 to 24 inches from outer ends of return arms, one on each side of truck.



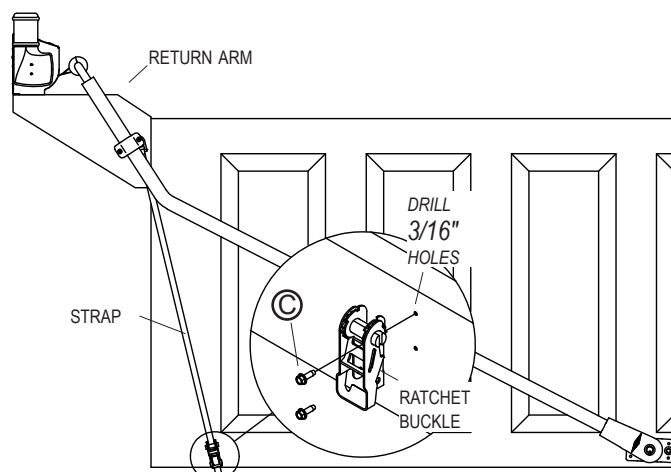
STEP 2: Align clamp brackets around return arm, placing bushing and strap assembly as shown. Fasten with screws (J), washers (d) and lock nuts (W).



STEP 3: With return arms in closed position, let hold-down strap hang and align ratchet buckle with strap. Using holes in buckle as guide, mark and drill 3/16 inch holes. Fasten ratchet buckle to truck with screws (C).



STEP 4: With return arms in open position, let hold-down strap hang. Locate ratchet buckle on lower edge of truck, aligning buckle and strap. Using lower hole in buckle as guide, mark and drill 3/16 inch hole. Fasten buckle to truck with screw (C). Rotate buckle so strap and buckle are parallel. Using top hole on buckle as guide, drill 3/16 inch hole and fasten with screw (C).

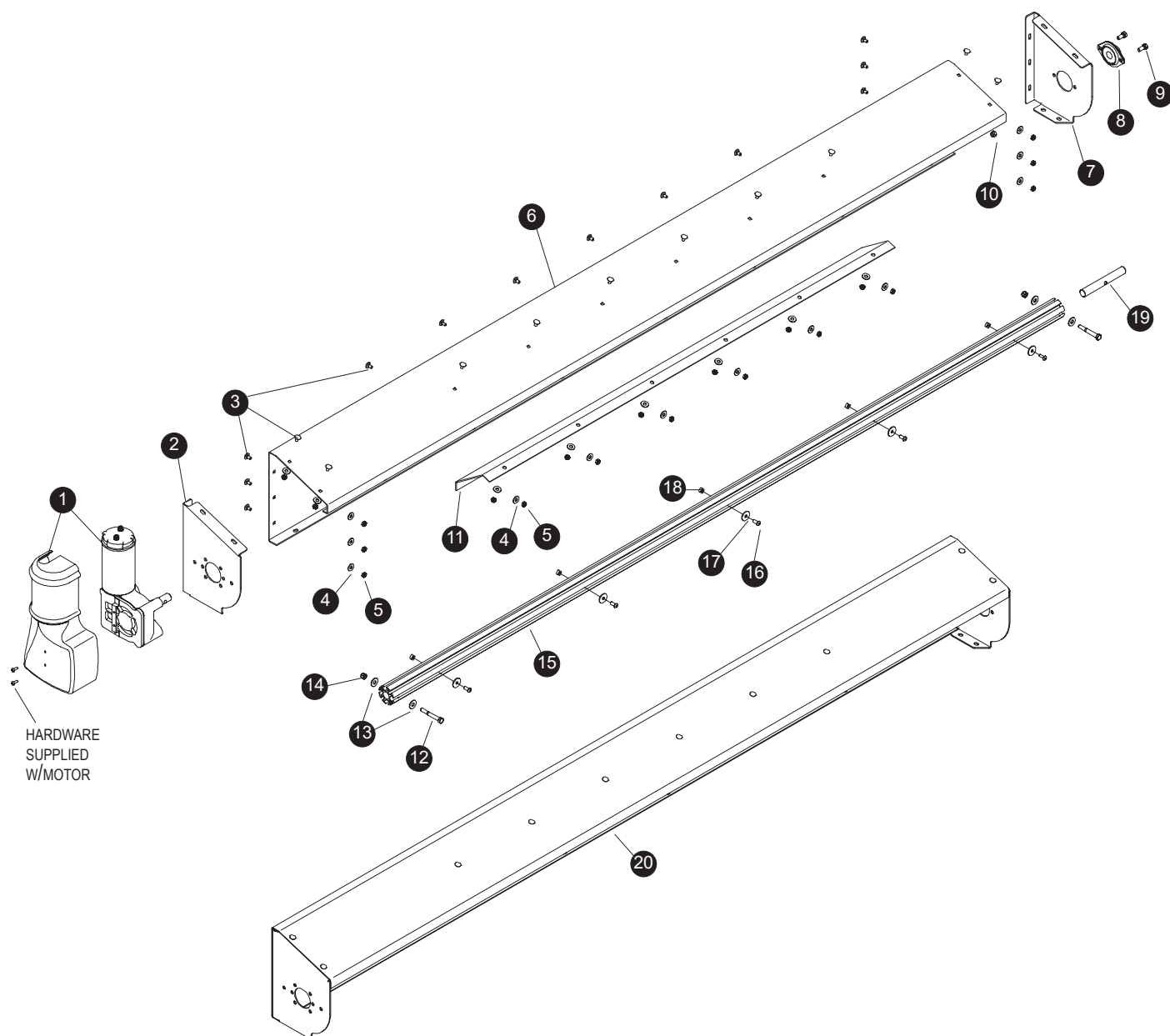


STEP 5: Run strap through buckle and tighten. Remove excess length from strap and melt end to prevent fraying.

STEP 6: Repeat STEPS 1 through 5 for return arm on other side of truck.

Our **Advanced Troubleshooting Guide** is available on our website: <http://www.shurco.com>, or call our Help Line: **1-866-748-7435**.

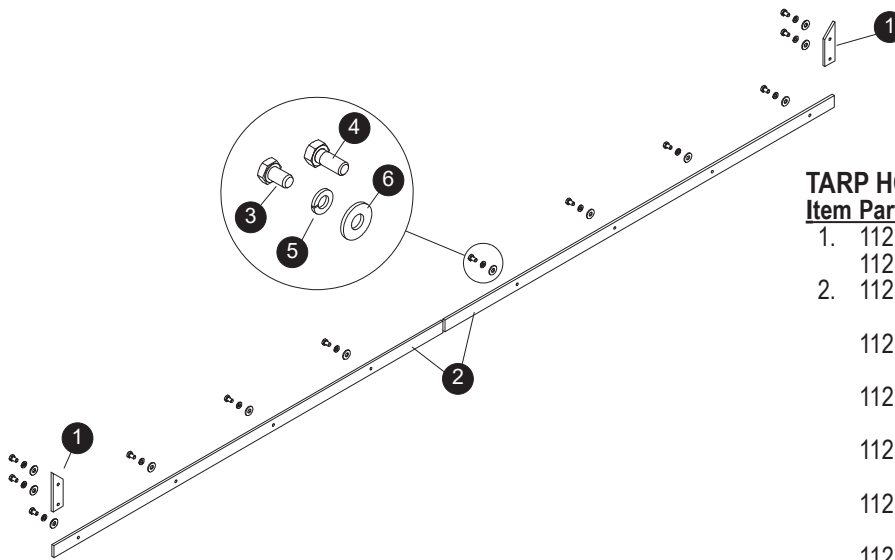
Problem:	Try This:
<p>The SHURLink EZR™ remote is not working.</p> <p>None of the lights on the remote turn on when I open the lid.</p>	<ol style="list-style-type: none"> 1. Make sure the battery is placed correctly. 2. The battery may be dead and must be replaced. Replacement high-capacity SHURLink EZR™ remote batteries may be purchased from Shur-Co® (P/N 1705163). 3. The SHURLink EZR™ remote may be damaged. Call Shur-Co's Help Line.
<p>The SHURLink EZR™ remote is not working.</p> <p>I can operate the system with the rocker switch, but not with the remote. The SHURLink EZR™ remote channel light (Tarp System, for example) is blinking, and when I press the Open/On button, the light blinks faster.</p>	<ol style="list-style-type: none"> 1. Make sure the remote is set to the right channel. If you cannot set the remote to the desired channel (Tarp System, for example), the remote must be reprogrammed. See the SHURLink EZR™ remote programming instructions. 2. Make sure you are within a couple feet of the receiver and try again. <ol style="list-style-type: none"> a) If it works at short range but not at greater distances, you have a range problem. A new battery may be needed. If the remote battery is not the cause, call Shur-Co's Help Line. 3. Reprogram the receiver. See the receiver programming instructions. If this doesn't work, call Shur-Co's Help Line.
<p>The system will not operate with the rocker switch or with the SHURLink EZR™ remote.</p> <p>When I try to use the rocker switch or SHURLink EZR™ remote, I don't hear any noises (a clicking noise, for example) from the receiver.</p>	<ol style="list-style-type: none"> 1. Make sure the master disconnect switch is turned to the "ON" position. 2. The circuit breaker may have tripped. Wait one minute and try again. 3. Check the vehicle's battery to make sure it isn't dead. 4. Check all connections from the battery to the system. Check for polarity, good connections and corrosion. Verify that you have at least 12V on the back side of the receiver on the battery hookup posts. 5. Call Shur-Co's Help Line.
<p>The system will not operate with the rocker switch or with the SHURLink EZR™ remote.</p> <p>When I try to use the rocker switch or SHURLink EZR™ remote, I hear a clicking noise but nothing happens.</p>	<ol style="list-style-type: none"> 1. Verify that you have at least 12V on the back side of the receiver on the battery hookup posts. 2. Call Shur-Co's Help Line.
<p>The rocker switch is not sticking, but the motor continues to run after I release the rocker switch.</p>	<ol style="list-style-type: none"> 1. Call Shur-Co's Help Line.
<p>The rocker switch is sticking.</p>	<ol style="list-style-type: none"> 1. Check the switch for excessive dirt, rocks or other objects. If the rocker switch cannot be cleaned, call Shur-Co's Help Line for a replacement receiver. <p>Pressure Wash: The receiver may be pressure washed, but keep nozzle at least 3 feet from system while spraying.</p>

**TARP HOUSINGS****Item Part # Description**

	1125891	Tarp Housing Assembly - Bolted Steel - 88"
	1125420	Tarp Housing Assembly - Bolted Steel - 92"
	1125422	Tarp Housing Assembly - Bolted Steel - 96"
	1125425	Tarp Housing Assembly - Bolted Steel - 102"
1.	1704878	Durabuilt Motor w/Cover - 3-1/8" Shaft
2.	1125417	Tarp Housing Bracket - Steel - Driver Side
3.	1704906	Carriage Bolt - 1/4" x 1/2"
4.	1700427	Flat Washer - 1/4"
5.	1704185	Nylon Lock Nut - 1/4"
6.	1121557	Tarp Housing Shield - 92"
	1121319	Tarp Housing Shield - 96"
	1121320	Tarp Housing Shield - 102"
7.	1125418	Tarp Housing Bracket - Steel - Pass. Side
8.	1703374	Radial Ball Bearing w/Flanges - 3/4"
9.	1701045	Cap Screw - 5/16" x 3/4"
10.	1700419	Nylon Lock Nut - 5/16"

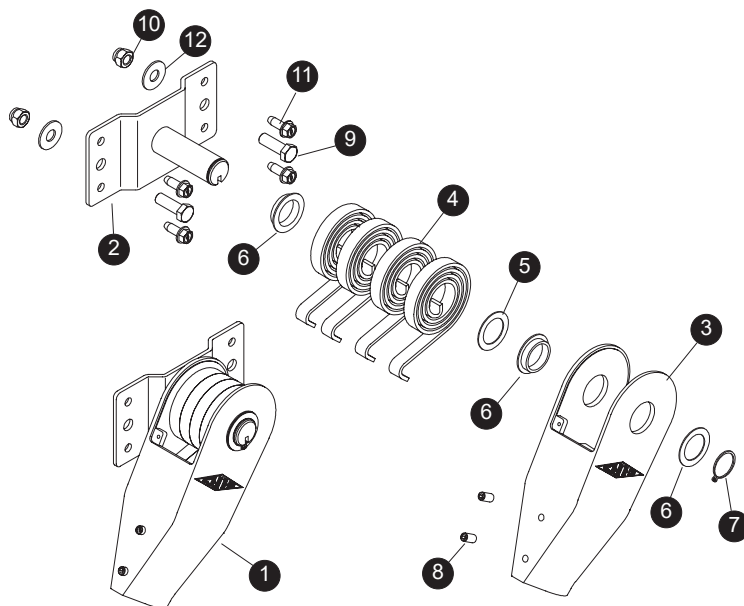
Item Part # Description

11.	1121321	Tarp Housing Shield Bracket
12.	1703237	Cap Screw - 5/16" x 2-1/2"
13.	1700428	Flat Washer - 5/16"
14.	1700419	Nylon Lock Nut - 5/16"
15.	1125890	Threaded Tarp Axle - 87"
	1115613	Threaded Tarp Axle - 91"
	1125423	Threaded Tarp Axle - 95"
	1125426	Threaded Tarp Axle - 101"
16.	1703327	Button Hd. Cap Screw - 1/4" x 5/8"
17.	1703218	Fender Washer - 1/4" x 1"
18.	1703290	Square Nut - 1/4"
19.	1114940	Tarp Axle Stub Shaft
20.	1125889	Tarp Housing - Bolted Steel - 88"
	1125419	Tarp Housing - Bolted Steel - 92"
	1125421	Tarp Housing - Bolted Steel - 96"
	1125424	Tarp Housing - Bolted Steel - 102"



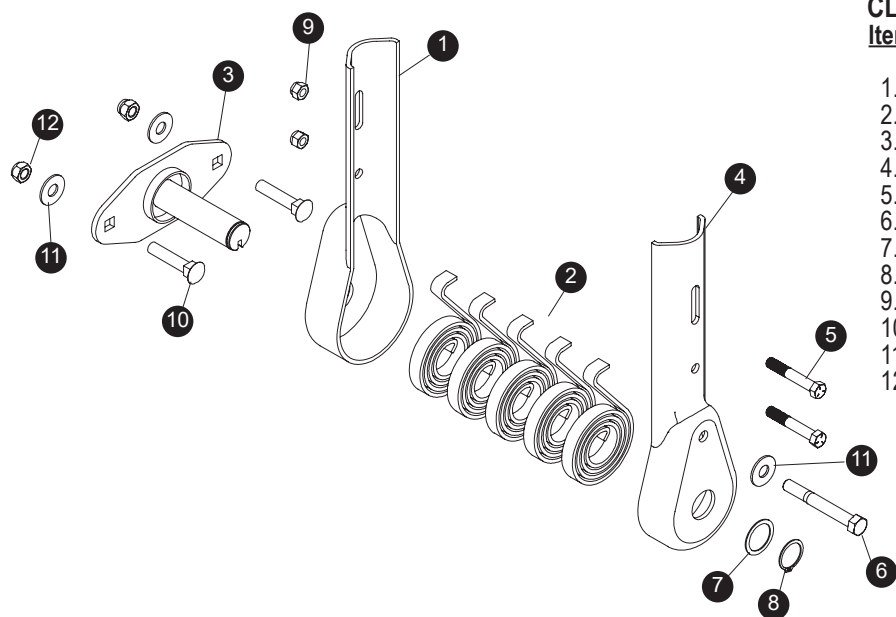
TARP HOUSING MOUNTING STRIPS

Item	Part #	Description
1.	1121361	End Panel Mounting Strip - Steel
	1121364	End Panel Mounting Strip - Aluminum
2.	1121961	Shield Mounting Strip - 43-7/8" - Steel (for 88" wide box)
	1121962	Shield Mounting Strip - 43-7/8" - Aluminum (for 88" wide box)
	1121570	Shield Mounting Strip - 45-7/8" - Steel (for 92" wide box)
	1121571	Shield Mounting Strip - 45-7/8" - Aluminum (for 92" wide box)
	1121359	Shield Mounting Strip - 47-7/8" - Steel (for 96" wide box)
	1121362	Shield Mounting Strip - 47-7/8" - Aluminum (for 96" wide box)
	1121360	Shield Mounting Strip - 50-7/8" - Steel (for 102" wide box)
	1121363	Shield Mounting Strip - 50-7/8" - Aluminum (for 102" wide box)
3.	1703171	Cap Screw - 5/16" x 1/2" (for steel strips)
4.	1701045	Cap Screw - 5/16" x 3/4" (for aluminum strips)
5.	1700433	Lock Washer - 5/16"
6.	1700428	Flat Washer - 5/16"



4-SPRING PIVOTS

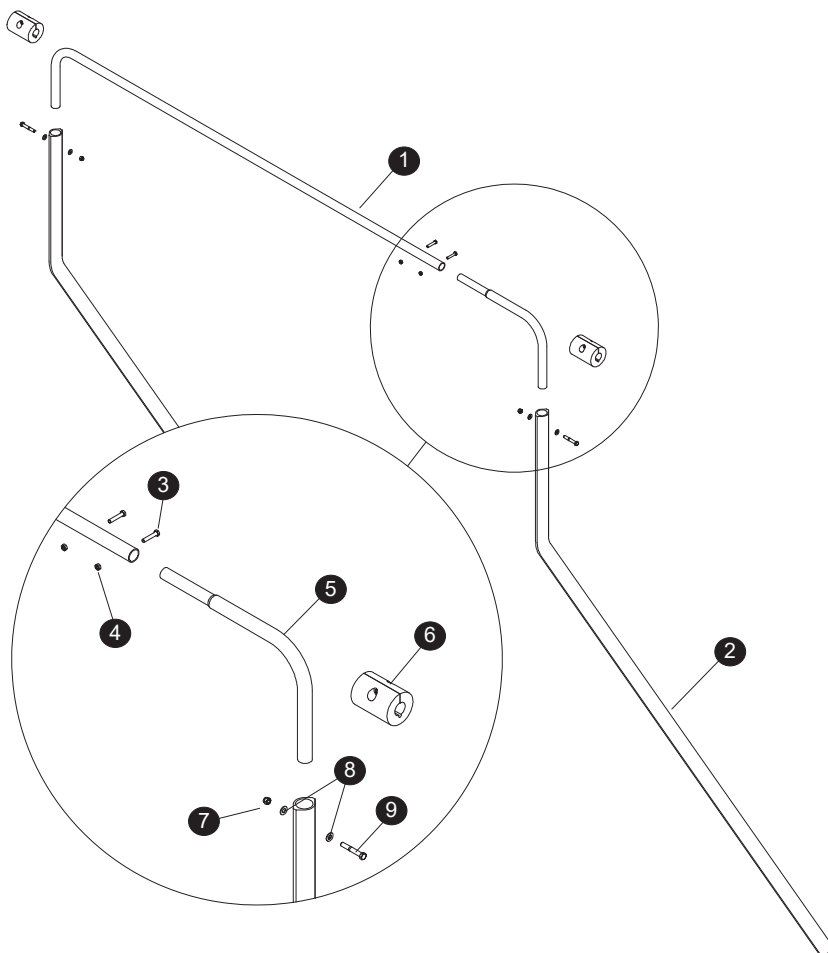
Item	Part #	Description
1.	1119096	4-Spring Pivot Assembly - Driver Side
	1119097	4-Spring Pivot Assembly - Passenger Side
2.	1119098	4-Spring Pivot Bracket
3.	1704474	4-Spring Pivot Connector
4.	1111027	Spiral Torsion Spring - 1-1/4" Pins
5.	1702890	Flat Washer - 1-1/4"
6.	1704468	Flange Bushing
7.	1702888	External Retaining Ring - 1-1/4"
8.	1704450	Set Screw - 3/8" x 3/4"
9.	1702075	Cap Screw - 1/2" x 1-1/2"
10.	1702115	Nylon Lock Nut - 1/2"
11.	1700400	Self-Tapping Screw - 3/8" x 1"
12.	1702114	Flat Washer - 1/2"

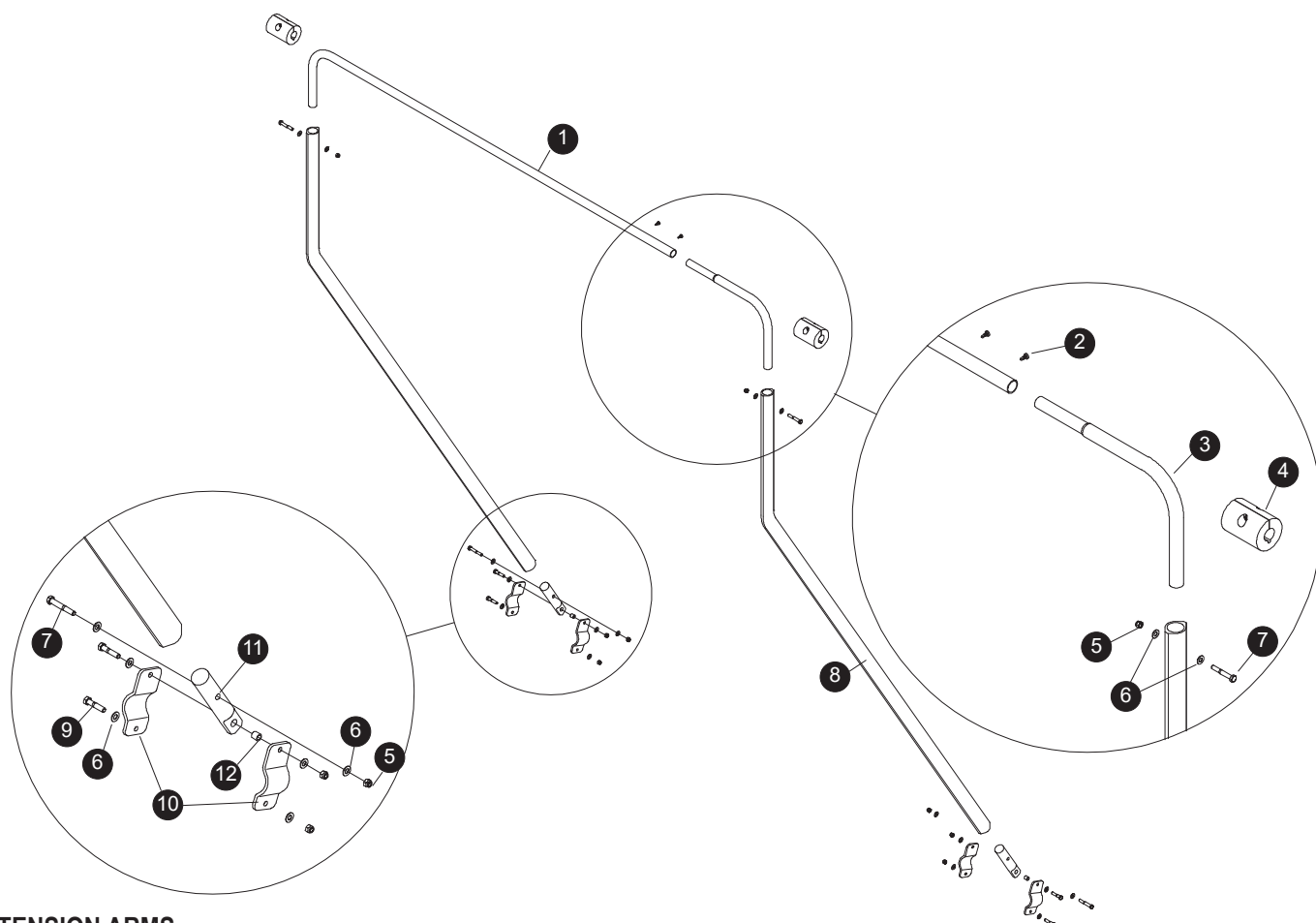
**CLAMSHELL PIVOTS**

Item	Part #	Description
	1801030	Clamshell Pivot Assembly
1.	1800934	Clamshell Stamped Housing Back
2.	1111027	Torsion Spring
3.	1800531	Pivot Mount - Straight
4.	1800769	Clamshell Stamped Housing Front
5.	1801025	Cap Screw - 7/16" x 2-3/4"
6.	1704656	Cap Screw - 1/2" x 4"
7.	1800977	Shim - 1 1/4" x .047"
8.	1800978	Retaining Ring - 1-1/4"
9.	1800329	Nylon Lock Nut - 7/16"
10.	1800356	Carriage Bolt - 1/2" x 1-1/2"
11.	1702114	Flat Washer - 1/2"
12.	1702115	Nylon Lock Nut - 1/2"

ARM ASSEMBLIES

Item	Part #	Description
1.	1118951	Tarp Tube Crossover
2.	1704465	Aluminum Return Arm - 10' w/2' Bend
	1704466	Aluminum Return Arm - 12' w/2' Bend
	1704467	Aluminum Return Arm - 14' w/2' Bend
	1704486	Aluminum Return Arm - 16'
	1704487	Aluminum Return Arm - 18'
	1704488	Aluminum Return Arm - 20'
3.	1704451	Cap Screw - 5/16" x 1-5/8"
4.	1704454	Nylon Lock Nut - Thin - 5/16"
5.	1118952	Tarp Tube Elbow
6.	1704458	Rubber Bumper - 3 1/4" x 4-1/2"
7.	1701580	Nylon Lock Nut - 3/8"
8.	1701176	Flat Washer - 3/8"
9.	1702573	Cap Screw - 3/8" x 2-1/2"



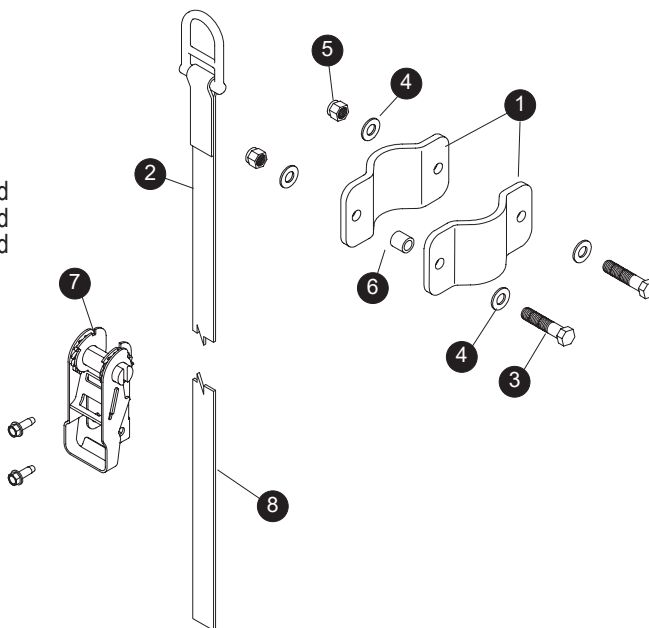


TENSION ARMS

Item	Part #	Description
1.	1118951	Tarp Tube Crossover
2.	1700398	Self-Drilling Screw - 1/4" x 3/4"
3.	1118952	Tarp Tube Elbow
4.	1704458	Rubber Bumper - 3-1/4" x 4-1/2"
5.	1701580	Nylon Lock Nut - 3/8"
6.	1701176	Flat Washer - 3/8"
7.	1702573	Cap Screw - 3/8" x 2-1/2"
8.	1704465	Aluminum Tension Arm - 10' w/2' Bend
	1704466	Aluminum Tension Arm - 12' w/2' Bend
	1704467	Aluminum Tension Arm - 14' w/2' Bend
9.	1700369	Cap Screw - 3/8" x 1-3/4"
10.	1120104	Arm Pivot Clamp Bracket
11.	1704642	Arm Pivot Connector
12.	1704643	Bushing - 9/16" x 3/8" x 9/16"

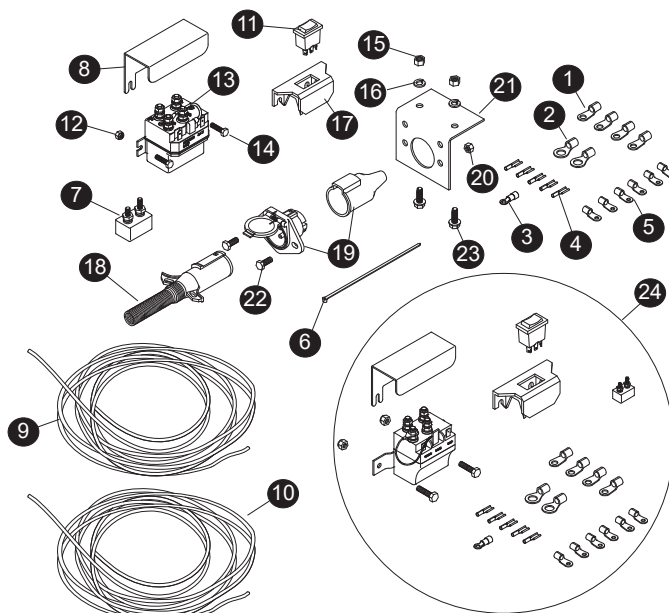
RETURN ARM HOLD-DOWNS

Item	Part #	Description
	1120389	Arm Hold-Down Kit
1.	1120388	Arm Anchor Clamp Bracket
2.	1120390	Hold-Down Strap Assembly
3.	1700369	Cap Screw - 3/8" x 1-3/4"
4.	1701176	Flat Washer - 3/8"
5.	1701580	Nylon Lock Nut - 3/8"
6.	1704643	Bushing - 9/16" x 9/16"
7.	1700836	Ratchet Buckle - 1"
8.	1700403	Self-Tapping Screw - 1/4" x 3/4"

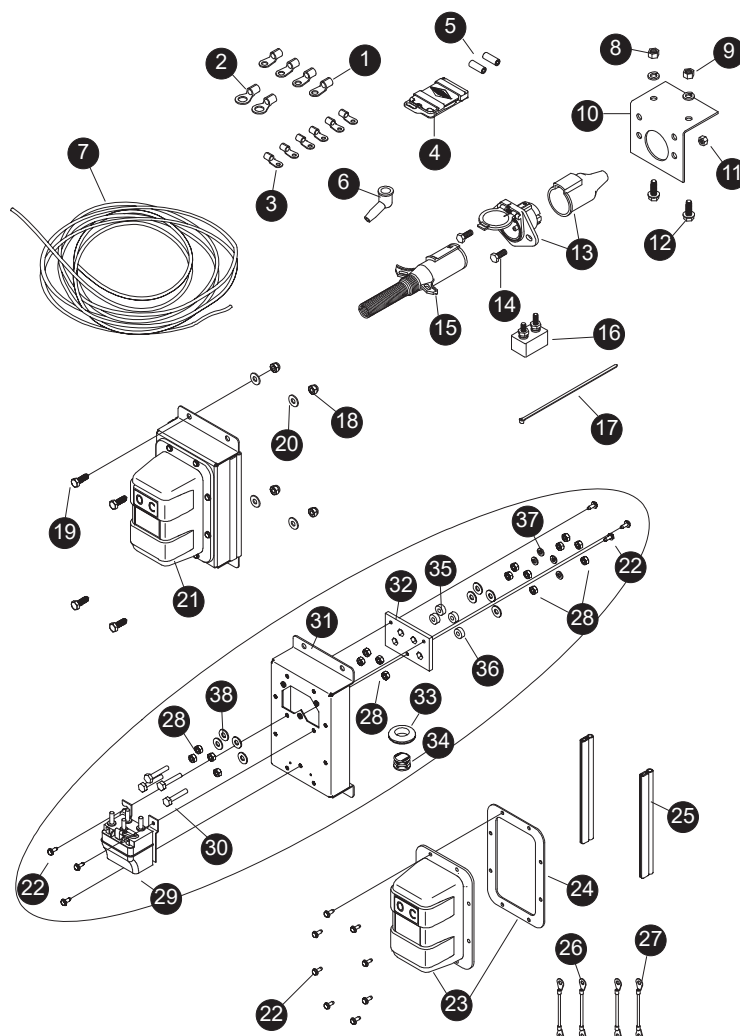


ROCKER SWITCH WIRING

Item	Part #	Description
	1109016	Dual-Pole Conductor w/Hardware
1.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
2.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
3.	1704153	Ring Terminal - 14 Ga. x 1/4" Stud - Solenoid
4.	1703659	Push-On Terminal - 14 Ga. x 1/4" - Switch/Solenoid
5.	1702707	Ring Terminal - 6 Ga. x 1/4" Stud - Motor/Solenoid
6.	1703231	Cable Tie - 8"
7.	1703480	50-Amp Auto-Reset Circuit Breaker
8.	1703896	Solenoid Cover
9.	1703822	Dual Conductor Wire - 6 Ga. 259 Strand
10.	1116482	Electrical Wire - 14 Ga. Lead - 15'
11.	1116020	Rocker Switch
12.	1808844	Nylon Lock Nut - #10
13.	1703845	Motor-Reversing Solenoid
14.	1704905	Flanged Cap Screw - #10 x 1"
15.	1700407	Hex Nut - 3/8"
16.	1700434	Lock Washer - 3/8"
17.	1703661	Mounting Bracket - Rocker Switch
18.	1115385	Heavy-Duty Dual-Conductor Plug
19.	1119557	Heavy-Duty Dual-Conductor Socket w/Boot
20.	1700411	Hex Nut - 5/16"
21.	1109015	Mounting Bracket - Conductor Plug
22.	1701045	Cap Screw - 5/16" x 3/4"
23.	1700400	Self-Tapping Screw - 3/8" x 1"
24.	1116271	Electrical Parts Kit - Rocker Switch - 50 Amp

**SHURLink EZR™ REMOTE WIRING**

Item	Part #	Description
	1109016	Dual-Pole Connector w/Hardware
1.	1703245	Ring Terminal - 6 Ga. x #10 Stud - Motor/Breaker
2.	1703244	Ring Terminal - 6 Ga. x 3/8" Stud - Battery
3.	1702707	Ring Terminal - 6 Ga. x 1/4" Stud - Motor/Solenoid
4.	1131576	5-Channel ShurLink EZR™ Remote
5.	1705163	Battery - AAA - ShurLink EZR™ Remote
6.	1704330	Rubber Boot
7.	1703822	Dual-Conductor Wire - 6 Ga. 259 Strand
8.	1700407	Hex Nut - 3/8"
9.	1700434	Lock Washer - 3/8"
10.	1109015	Mounting Bracket
11.	1700411	Hex Nut - 5/16"
12.	1700400	Self-Tapping Screw - 3/8" x 1"
13.	1119557	Heavy-Duty Dual-Conductor Socket w/Boot
14.	1701045	Cap Screw - 5/16" x 3/4"
15.	1115385	Heavy-Duty Dual-Conductor Plug
16.	1703480	50-Amp Auto-Reset Circuit Breaker
17.	1703231	Cable Tie - 8"
18.	1700419	Nylon Lock Nut - 5/16"
19.	1702926	Cap Screw - 5/16" x 7/8"
20.	1700428	Flat Washer - 5/16"
21.	1131582	Shur-Co® Wireless Receiver - ShurLink EZR™
22.	1704308	Cap Screw - #10 x 1/2"
23.	1132195	Solenoid Cover w/Gasket - ShurLink EZR™
24.	1704309	Solenoid Cover Gasket
25.	1704369	Trim Seal (per foot)
26.	1704316	12-Ga. Wire - 3" Red
27.	1704317	12-Ga. Wire - 3" Black
28.	1700408	Hex Nut - 1/4"
29.	1705408	Motor-Reversing Solenoid - 3 Pt. Mt.
30.	1704343	Cap Screw - 1/4" x 1-1/2"
31.	1118296	Modular Control Bracket
32.	1118297	Insulating Plate
33.	1703282	Rubber Grommet - 1-1/4"
34.	1701595	End Plug - 1"
35.	1118037	Plastic Washer - Black
36.	1118250	Plastic Washer - Orange
37.	1700436	Lock Washer - 1/4"
38.	1700427	Flat Washer - 1/4"



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