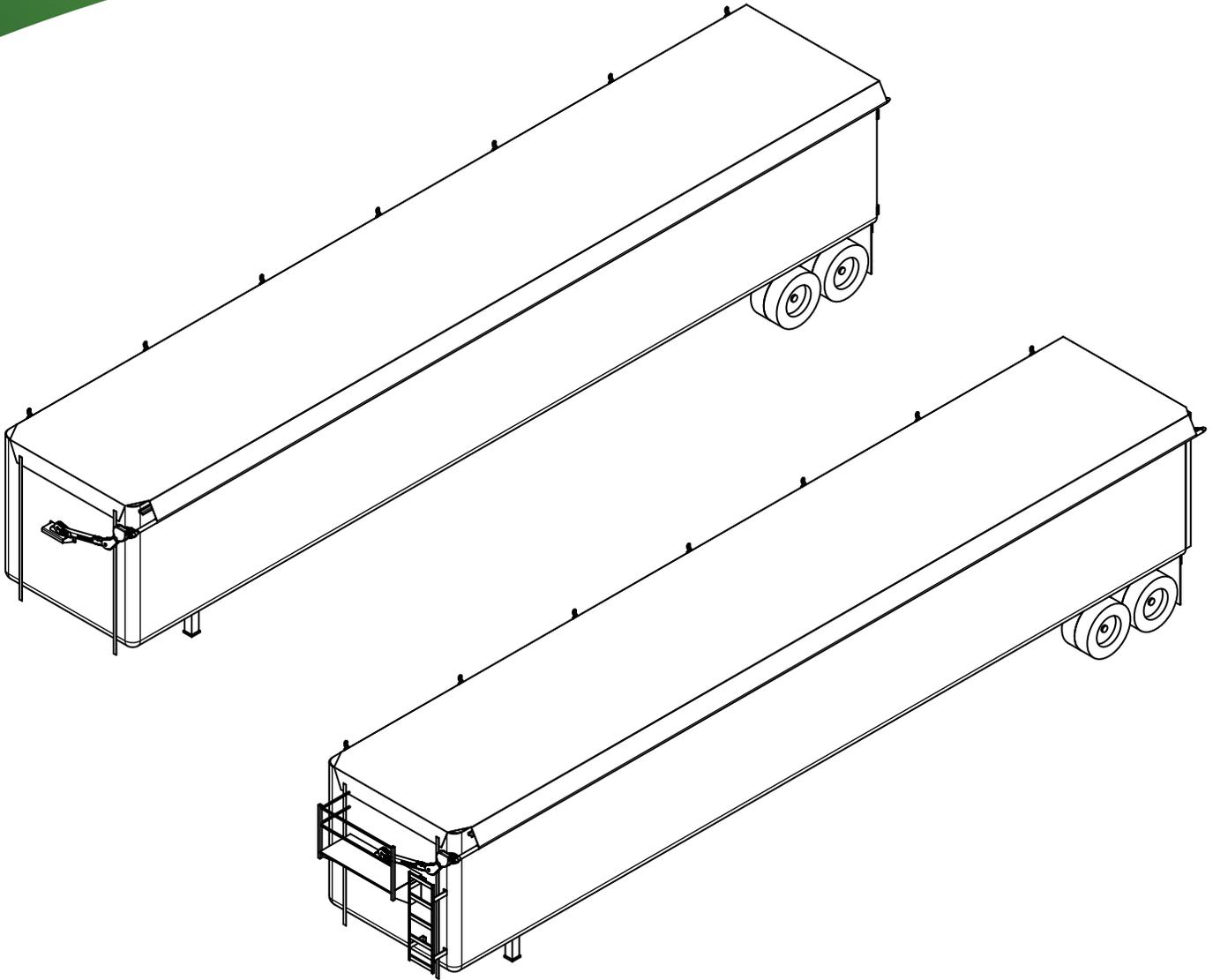




Serving the Truck & Trailer Industry  
Since 1944

## AeroForce S2S For Refuse Trailers



# **AeroForce S2S**

---

## **Installation Instructions**

**Attention Dealers:** Please give this manual to the customer when product is delivered.

Call 800-535-9545 | [www.aeroindustries.com](http://www.aeroindustries.com)

Indianapolis, IN | Omaha, NE | Kent, OH

# AeroForce S2S

## For Refuse Trailers

### Installation Directory

---

Item	Step	Page
Safety Information	—	3
Safety Label Locations	—	4
Warranty Information and Tools Required	—	5
Aluminum Front Cap	1	6
Aluminum Rear Cap: Install Mounted to Tailgate	2	7
Installing Roll Stops and Secure Anchor Pipe	3	8
Install Latch Plate	4	9
Roll Pipe and Anchor Pipe		
2" Aluminum Roll Pipe	5a	10
Steel Roll Pipe	5b	11
3" Aluminum Roll Pipe	5c	12
Assemble Anchor Pipe	5d	13
Anchor Pipe and Keder Tarp Assembly	5e	14
Mounting Arm Mounts (Front)	6a	15
Mounting Arm Mounts (Front Reverse Roll)	6b	16
Mounting Arm Mounts (Front w/Catwalk)	7	17
Mounting Standard Rear Bracket	8a	18
Mounting Rear Double Door Arm Mount	8b	19
Mounting Arms	9a	20
Mount Rear ForceLink Assembly for Double Swing Doors	9b	21
Mounting Arms, Reverse Roll (Front)	9c	22
Mounting Arms, Reverse Roll (Rear)	9d	22
Roll Pipe Hookup	10a	23
Roll Pipe Hookup, Reverse Roll	10b	24
3" Roll Pipe Rear Hookup	10c	25
Rear Tensioner	11	26
Wiring		
Semi-trailer Truck Wiring	12a	27
Semi-trailer Wiring	12b	28
Optional Remote Wiring	12c	28
Alternate Remote Wiring	12d	29-30
How to Operate AeroForce S2S	—	31
Safety Messages Related to the Operation of AeroForce S2S	—	31
How to Maintain AeroForce S2S	—	32
Safety Messages Related to the Maintenance of AeroForce S2S	—	32



## Important Safety Information

### Explanation of Signal Words

- ⚠ WARNING:** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- ⚠ CAUTION:** Indicates a hazardous situation which, if not avoided could result in minor or moderate injury.

### General Safety Messages

- ⚠ WARNING:** Read this entire manual and all safety messages before installing and operating this product.
- ⚠ WARNING:** Always wear safety glasses during installation and operation.
- ⚠ CAUTION:** Keep all clothing clear of moving parts.
- ⚠ CAUTION:** Keep everyone clear of the area.

### Safety Messages related to the Installation of AeroForce S2S

- ⚠ CAUTION:** Use caution lifting heavy components. Use more than one person and/or proper equipment to handle components.
- ⚠ CAUTION:** Use caution while installing the swing arms, springs are under spring tension. Arms may rotate unexpectedly.
- ⚠ WARNING:** Use OSHA approved ladders or scaffolding to work above ground level. Be sure that your working platform is secure as you work on the truck.
- ⚠ WARNING:** Properly fasten all components. If not properly secured components may come loose.

**⚠ IMPORTANT:** *Contains information critical to installation, operation, or warranty policy.*

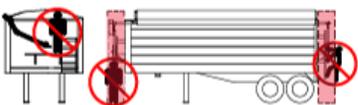
**NOTICE:** *Is used to address practices not related to physical injury. Risk of product or vehicle being damaged.*

**NOTE:** Contains information critical to the installation or operation of this product.

**⚠ IMPORTANT:** *This tarp system must have arched bows to support the tarp fabric when closed. As such, When not in use, the tarp should be fully opened to prevent moisture from collecting on the tarp surface. Failure to open tarp could cause damage to the tarp system and will not be covered by warranty.*

**⚠ WARNING**

Springs and arms are under extreme tension.  
DO NOT stand in the path of the swing arms.



**NEVER** stand near damaged arms/tarp.

Broken or damaged components could cause death or serious injury.

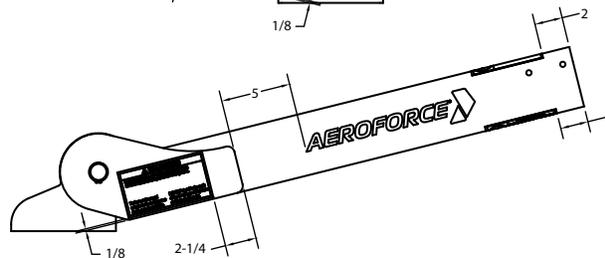
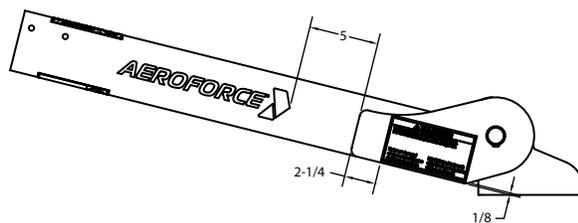
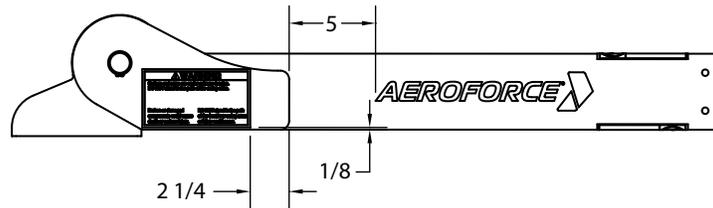
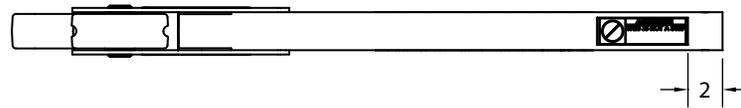
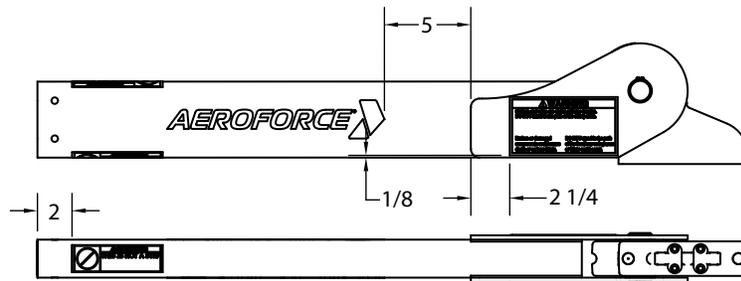


Label Part# 0920-103006

## Safety Label Locations

If Safety Labels and Logos shown below are not placed on kit assemblies, apply them as shown (apply to clean/dry surfaces to ensure proper adhesion).

If Safety Labels and Logos are not included in kit, please contact Aero Industries Customer Service to obtain them.



This manual explains how to install and maintain an AeroForce S2S Roll Tarp system.

### **Aero Warranty**

Aero Products come with a one year warranty on all parts. It's another example of our ongoing commitment to customer satisfaction and quality.

**Customer:** If you have any concerns or questions prior to the installation of this product, please call our Customer Service at 1-800-535-9545.

### **Tools Required for Installation**

Marker or Felt Pen	Drill Bits: 9/32", 11/32", 13/32"
Tape Measure	Sockets: 5/16", 7/16", 9/16", 3/4", 1", 1-1/8"
Black Electrical Tape	Open End or Box Wrenches: 5/16", 7/16", 9/16", 3/4", 1", 1-1/8"
Awl	Phillips: #3
Hammer	Electric or Air Drill
Saw	Welder
	Allen Wrench Set

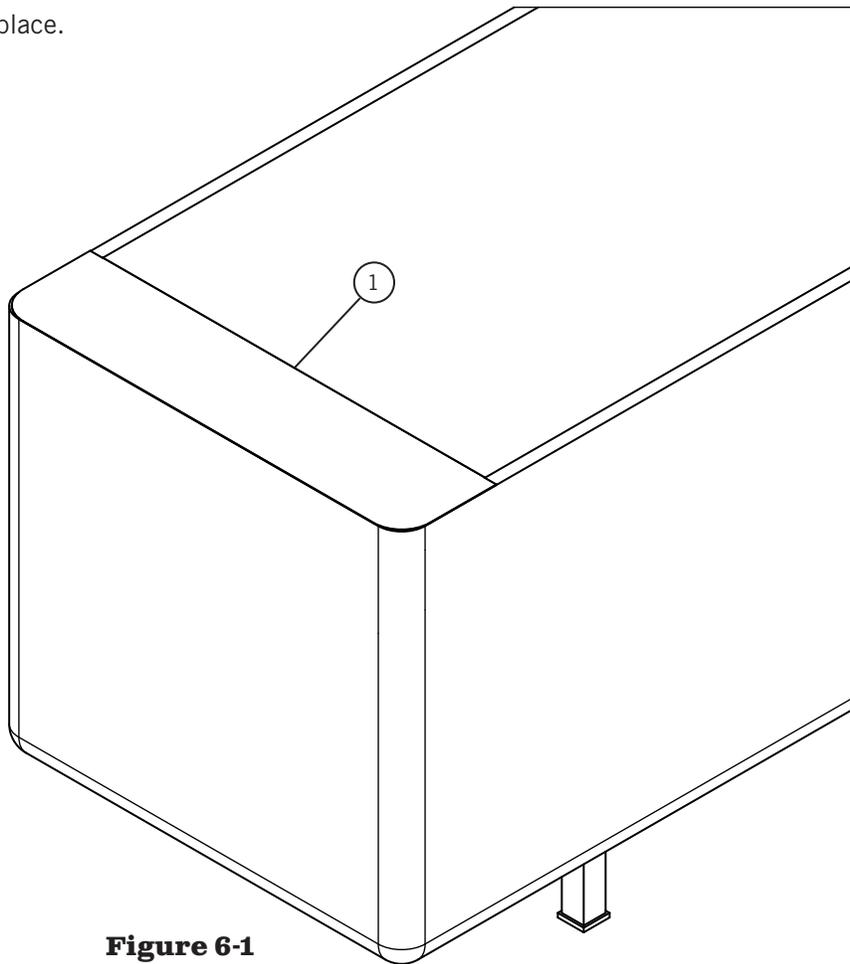
# AeroForce S2S

## Installation Instructions

### Step 1

#### Aluminum Front Cap

- 1) Temporarily place front cap on trailer; trace/mark front corner profiles and/or cut-outs for proper fit.
- 2) Make necessary adjustments to cap.
- 3) Weld cap in place.



**Figure 6-1**

Index	Description	Qty
1	Front Flat Aluminum Cap	1

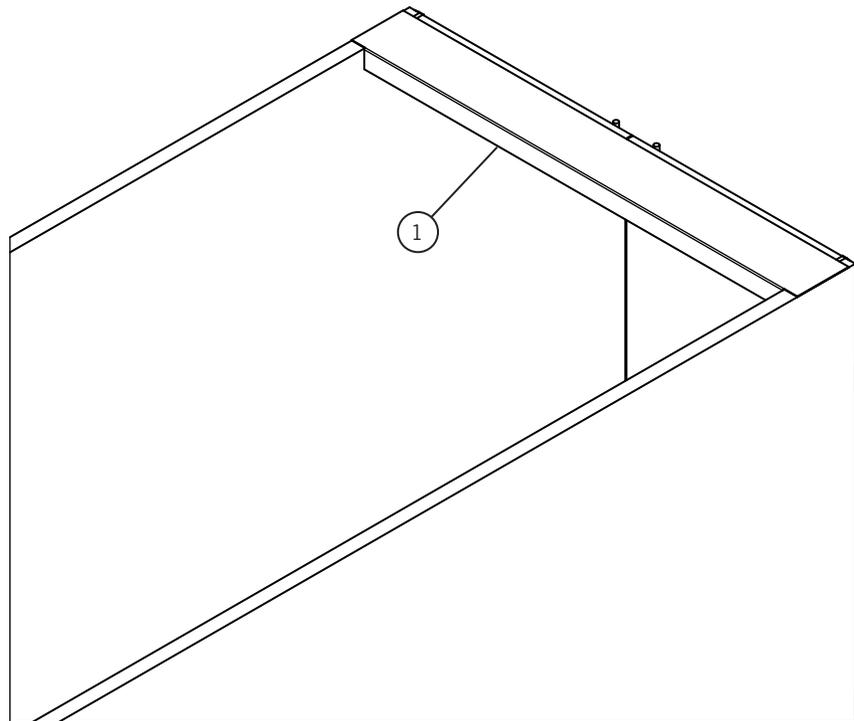
# AeroForce S2S

## Installation Instructions

### Step 2

#### Aluminum Rear Cap: Install Mounted to Tailgate

- 1) Temporarily place rear cap on trailer; trace/mark rear corner profiles and/or cut-outs for proper fit.
- 2) Make necessary adjustments to cap.
- 3) Weld cap in place.



**Figure 7-1**

Index	Description	Qty
1	Rear Flat Aluminum Cap	1

# AeroForce S2S

## Installation Instructions

### Step 3

#### Installing Roll Stops and Secure Anchor Pipe

1) **Figures 8-1 & 8-2.** Locate first roll stop bracket 5"-9" from the first bow and 1" down from top rail.

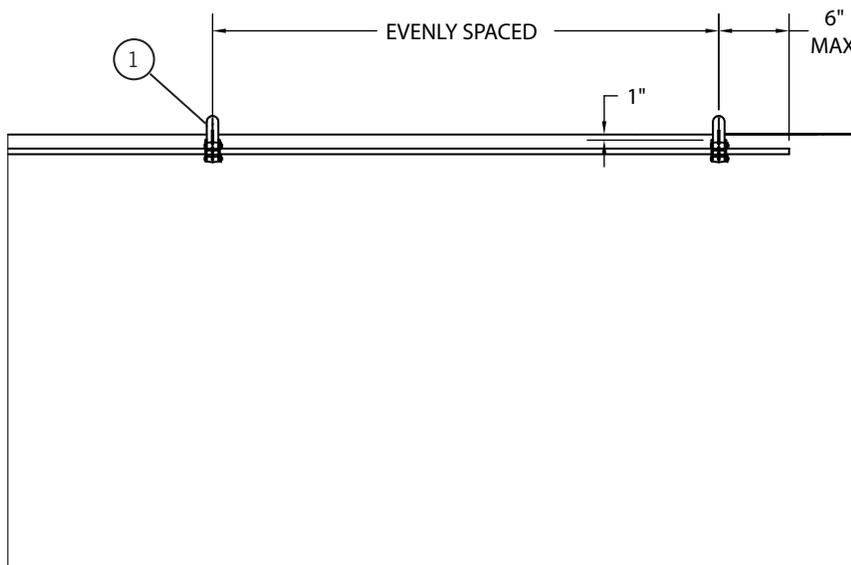
**Note:** Tarp and end of anchor pipe should be 1" from center of same bow.

2) **Figures 8-1 & 8-2.** Drill a pilot hole and attach with 3/8 x 1 type F HWH bolts.

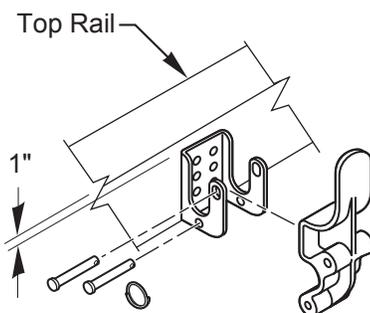
3) Locate last roll stop bracket 5"-9" from end of anchor pipe or as close as possible and 1" down from top rail.

4) Evenly space roll stop brackets along top rail with maximum of 96" apart.

**Note:** Refer to local and federal DOT standards for max trailer heights before installing roll stops. High side trailers require a lower mounting location.



**Figure 8-1**



**Figure 8-2**

Install Anchor Pipe to  
Top Rail & Roll Stops

**Note:** Roll stops included in Installation Kit may vary in style.

### Step 4

#### Install Latch Plate

**Note:** Check to ensure the roll tube will have a clear path past the tailgate. Shim latch plate if needed.

**Note:** Latch plate can be mounted to the top rail.

- 1) Locate the front latch plate segment 3" forward of the front edge of the tarp 1"-5" below the top rail or as high as possible.

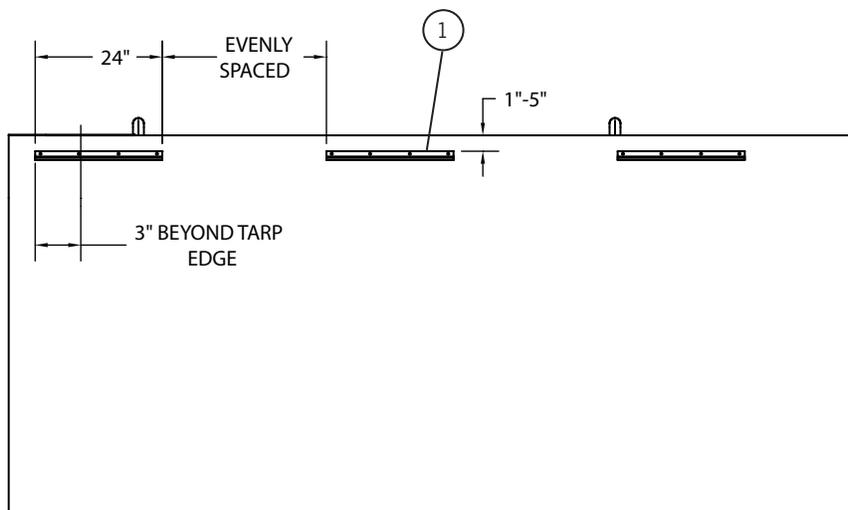
**Note:** Front edge of latch plate can be cut at a 45° angle when beyond the flat of the side wall.

- 2) Drill pilot holes using pre-drilled holes in latch plate segments.

**Note:** First hole may need to be farther back where the flat side wall starts.

- 3) Locate and attach latch plate segments, evenly spaced no greater than 8' apart in-line across top rail.

**Note:** Rear edge of latch plate may need to be cut at a 45° angle as to not interfere with the swing gate.

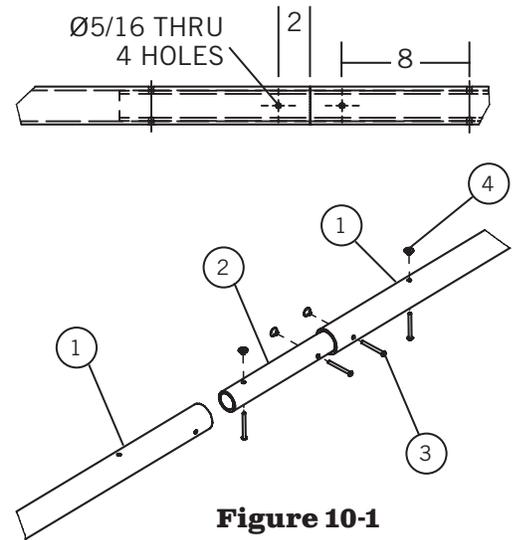


**Figure 9-1**

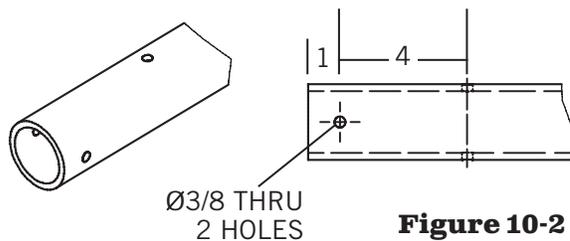
### Step 5a

#### 2" Aluminum Roll Pipe

- 1) **Figure 10-1.** Drill (4) 5/16 holes through both pipes. The two holes farthest apart are to be drilled 90 degrees with regards to the closest holes. Assemble each splice section using supplied hardware shown in **Figure 10-1**.
- 2) **Figure 10-2.** At one end, drill (2) 3/8 holes through the 2" pipe. The two holes will be 4" apart with one hole 1" from the end of the pipe. The two holes will be 90 degrees from each other.
- 3) **Figure 10-3.** Assemble the roll pipe and adapter using supplied hardware shown in **Figure 10-3**.

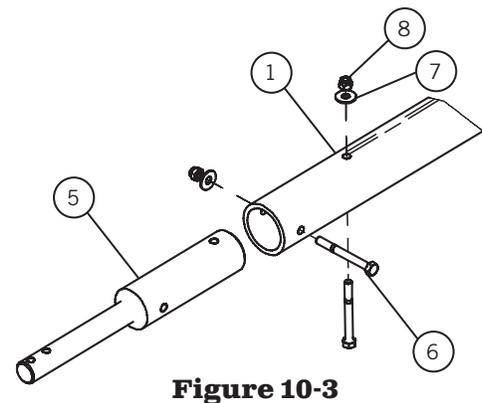


**Figure 10-1**



**Figure 10-2**

Index	Description	Qty
1	ALUM 2" SCH80 PIPE	2
2	SPLICE SEGMENT, ROLL PIPE	1
3	BOLT BHSCS 1/4-20 X 2 1/2	4
4	WELD NUT 1/4-20 TAB BASE	4
5	SHAFT, ADAPTER FOR 2" ALUM. ROLL PIPE	1
6	5/16-18 UNC X 3 - BOLT HHCS	2
7	5/16 - USS FLAT WASHER	2
8	5/16-18 NYLON LOCK NUT	2



**Figure 10-3**

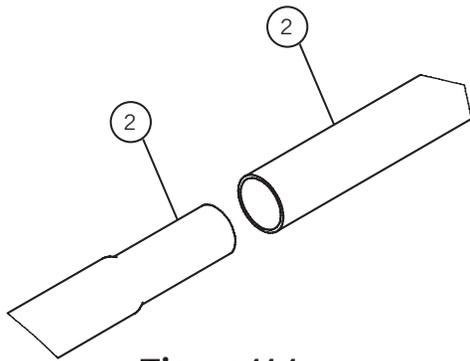
# AeroForce S2S

## Installation Instructions

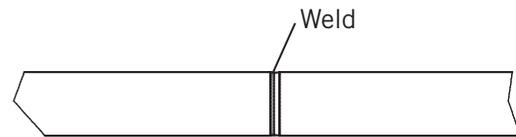
### Step 5b

#### Steel Roll Pipe

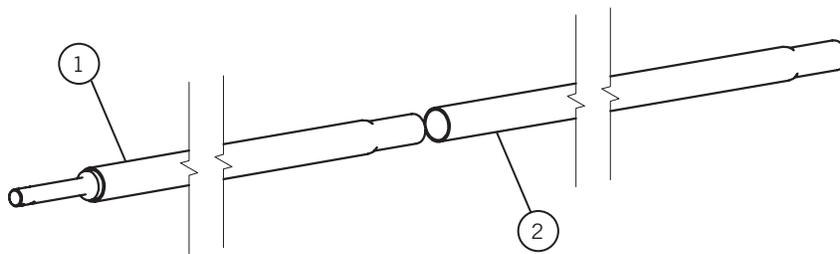
- 1) **Figure 11-1.** Slide each pipe together.  
This also includes the pipe with adapter already welded on it.
- 2) **Figure 11-2.** Weld each spliced section.



**Figure 11-1**



**Figure 11-2**



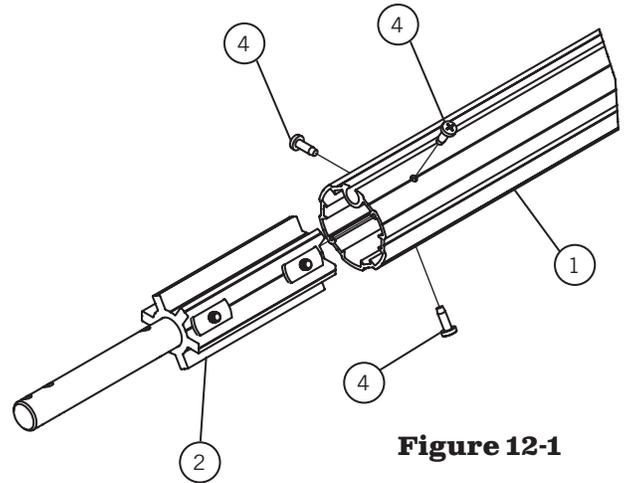
Index	Description
1	5' PIPE, ADAPTER ASSY
2	STEEL ROLL PIPE

### Step 5c

#### 3" Aluminum Roll Tape

- 1) **Figure 12-1.** Using the center lines in the valleys of the roll pipe, drill three 1/4" holes 2" back from the end at 120 degrees opposed around the pipe. Align holes with corresponding holes in the drive adapter assembly. Insert fasteners to secure.

Index	Description	Qty
1	3" ROLL PIPE	2
2	DRIVE ADAPTER ASSEMBLY	1
3	3" ROLL PIPE SPLICE	1
4	SCREW 1/4 X 3/4 PHPH S/T	1

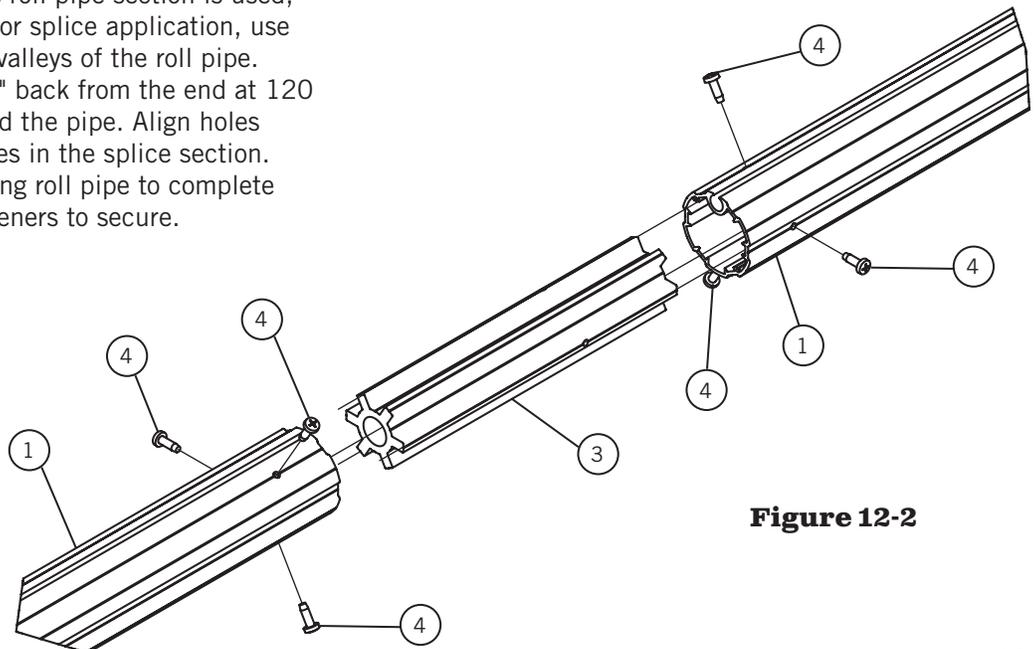


**Figure 12-1**

**Note:** If you are using the Internal Tensioner, the rear section of the roll pipe needs to be at least 17' long to allow the Internal Tensioner to fit inside of the roll pipe.

**Note:** If you are splicing two sections together, the front section needs to be at least 4' long.

- 2) **Figure 12-2.** If a single roll pipe section is used, skip to the next step. For splice application, use the center lines in the valleys of the roll pipe. Drill three 1/4" holes 2" back from the end at 120 degrees opposed around the pipe. Align holes with corresponding holes in the splice section. Repeat drilling on mating roll pipe to complete each splice. Insert fasteners to secure.



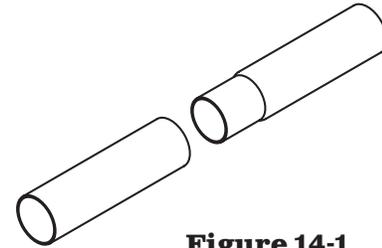
**Figure 12-2**



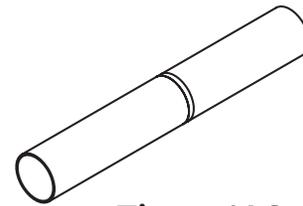
### Step 5e

#### Anchor Pipe and Keder Tarp Assembly

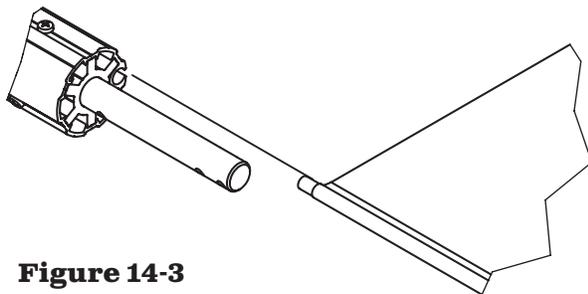
- 1) **Figures 14-1 & 14-2.** Insert swaged end of the tube adapter assembly into the front end of the roll pipe and weld to complete.
- 2) **Figure 14-3.** Cut anchor pipe flush with both ends of the tarp pocket.
- 3) Add rubber cup end caps to both ends of the anchor pipe.
- 4) **Figure 14-3.** Slide complete anchor pipe completely into tarp pocket. Secure with #14 x 1 PPH self drilling screw, both ends.
- 5) **Figure 14-4.** Slide tarp Keder into corresponding Keder groove in the 3" aluminum roll pipe assembly.



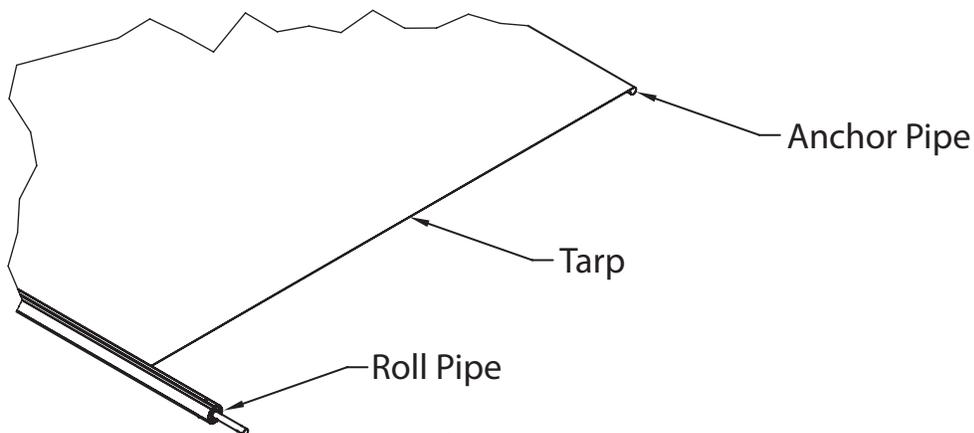
**Figure 14-1**



**Figure 14-2**



**Figure 14-3**



**Figure 14-4**

# AeroForce S2S

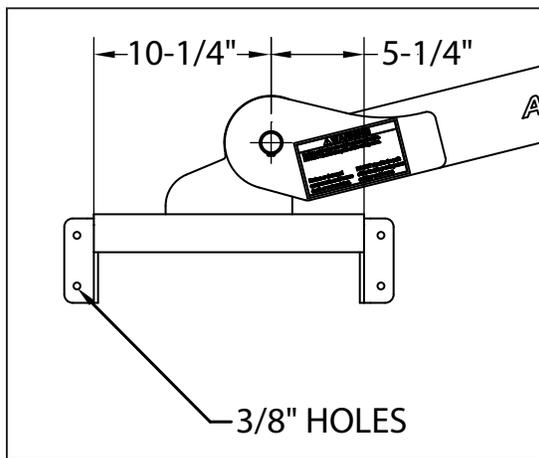
## Installation Instructions

### Step 6a

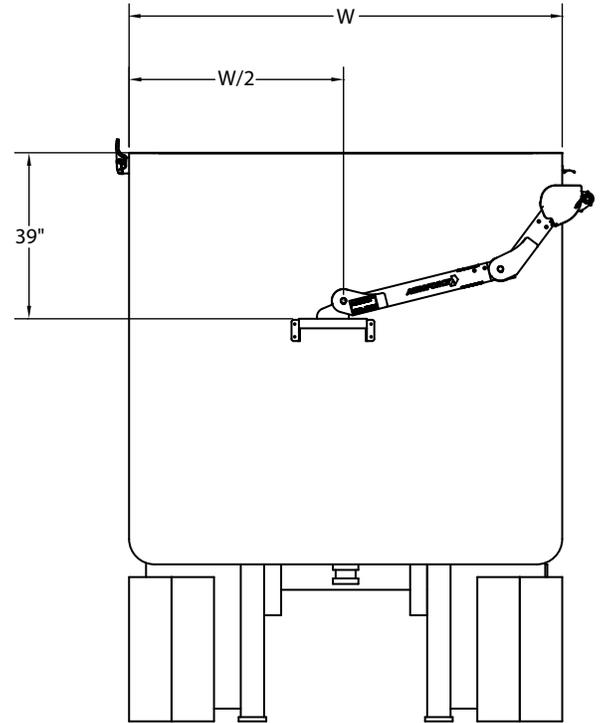
#### Mounting Arm Mounts (Front)

**Note: Figure 15-1.** Center of the pivot needs to be in the center of the trailer.

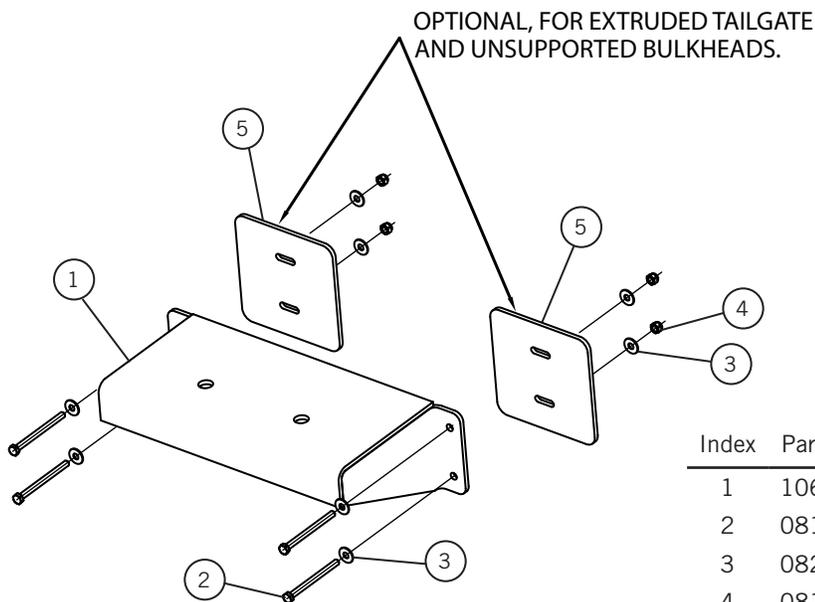
- 1) **Figure 15-2.** Drill four 3/8" holes using the mounting bracket as a template for the hole locations.
- 2) **Figure 15-3.** Use supplied hardware to mount the mounting bracket to the trailer.



**Figure 15-2**



**Figure 15-1**



**Figure 15-3**

**Note:** Mounting Brackets are supplied with standard Pivot Mounting hole locations at 3/8" dia. through. Standard holes must be drilled out to 7/8" for proper fastener fit. If alternate locations are required, holes must be marked and drilled through at 7/8" dia.

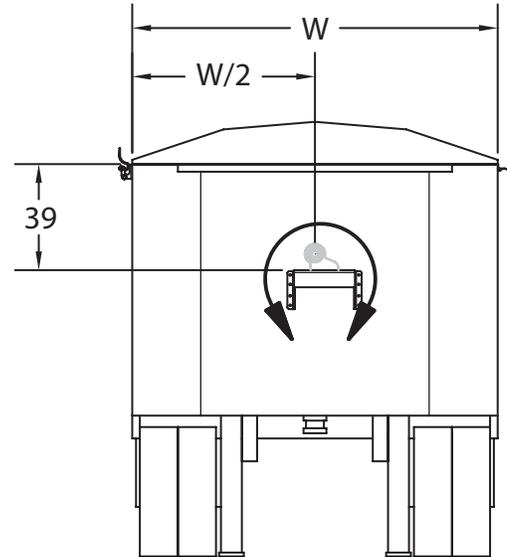
Index	Part Number	Description	Qty
1	1061-940030	BRACKET, PIVOT MOUNT	1
2	0810-650106	5/16-18 UNC - 4 - BOLT HHCS	4
3	0820-680520	5/16 USS FLAT WASHER	8
4	0815-660550	5/16-18 NYLON LOCK NUT	4
5	1061-840443	BACKING PLATE (OPTIONAL)	2

### Step 6b

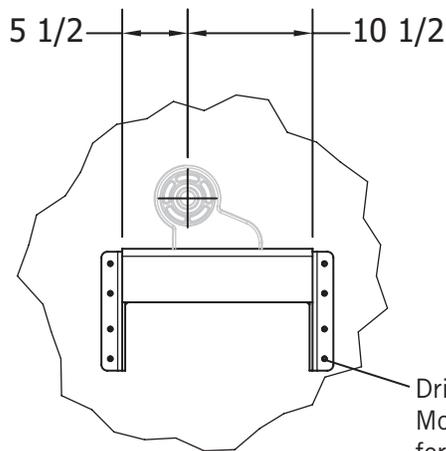
#### Mounting Arm Mounts (Front Reverse Roll)

**Note: Figure 16-1.** Center of the pivot needs to be in the center of the trailer.

- 1) **Figure 16-2.** Drill eight 3/8" holes using the mounting bracket as a template for the hole locations.
- 2) **Figure 16-3.** Use supplied hardware to mount the mounting bracket to the trailer.

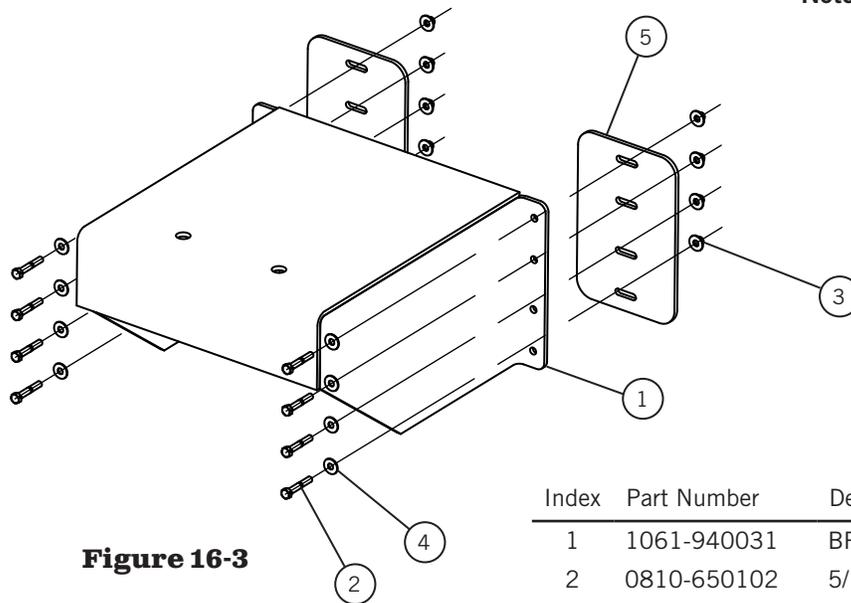


**Figure 16-1**



**Figure 16-2**

Drill eight 3/8" holes using the Mounting Bracket as a template for the hole locations.



**Figure 16-3**

**Note:** Mounting Brackets are supplied with standard Pivot Mounting hole locations at 3/8" dia. through. Standard holes must be drilled out to 7/8" for proper fastener fit. If alternate locations are required, holes must be marked and drilled through at 7/8" dia.

Index	Part Number	Description	Qty
1	1061-940031	BRACKET, PIVOT MOUNTING RR	1
2	0810-650102	5/16-18 UNC - 2 - BOLT HHCS	8
3	0815-660550	5/16-18 NYLON LOCK NUT	8
4	0820-680510	5/16 - USS FLAT WASHER	16
5	1061-840050	PLATE, PIVOT BACKER, RR	2

# AeroForce S2S

## Installation Instructions

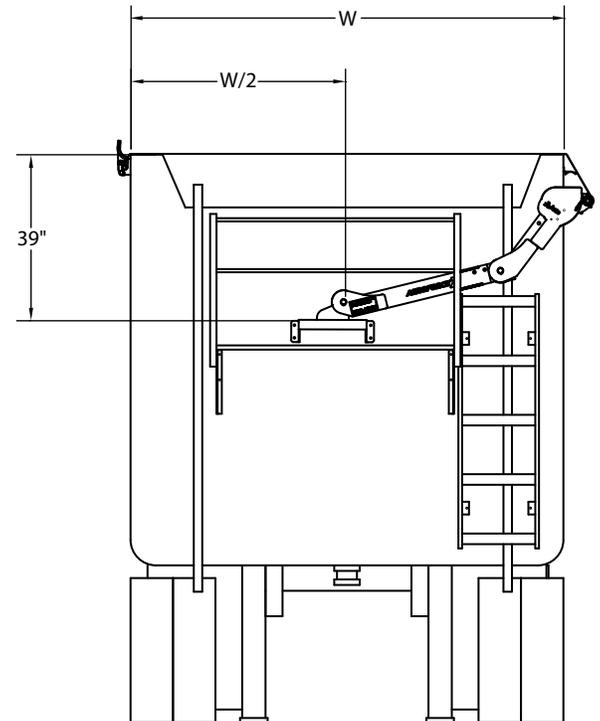
### Step 7

#### Mounting Arm Mounts (Front w/Catwalk)

**Note: Figure 17-1.** Center of the pivot needs to be in the center of the trailer.

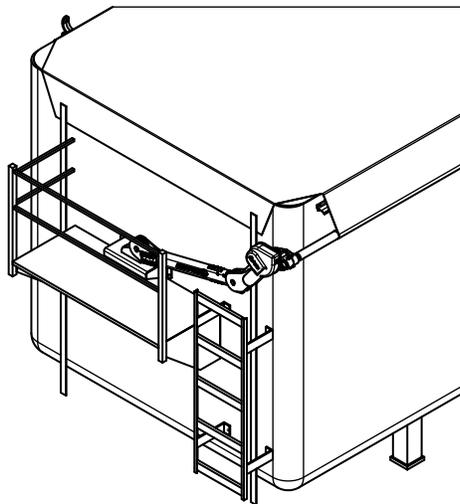
- 1) **Figure 17-1.** Attach front mounting bracket above catwalk tread plate 39" from top of bulkhead (or as close as possible).
- 2) **Figure 17-1.** Catwalk access ladder may interfere with front pivot arm assembly and require modification.

**Note:** If the ladder interferes with proper operation of the front pivot arm assembly, it may need cut down to eliminate interference. If an interference situation is present which cannot be simply resolved, please contact Aero Industries Customer Service.



**Figure 17-1**

**Note: Figure 17-2.** Correct clearance for ladder/front pivot arm.



**Figure 17-2**

# AeroForce S2S

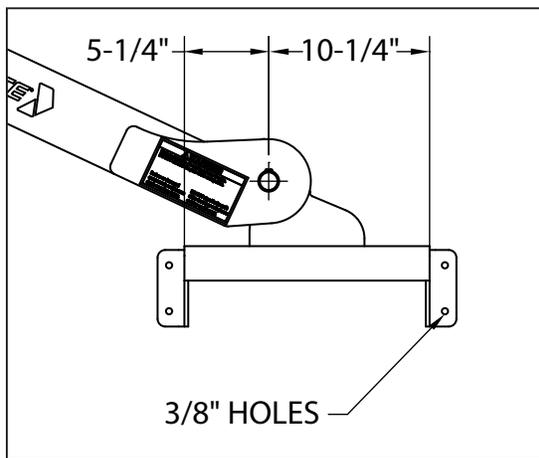
## Installation Instructions

### Step 8a

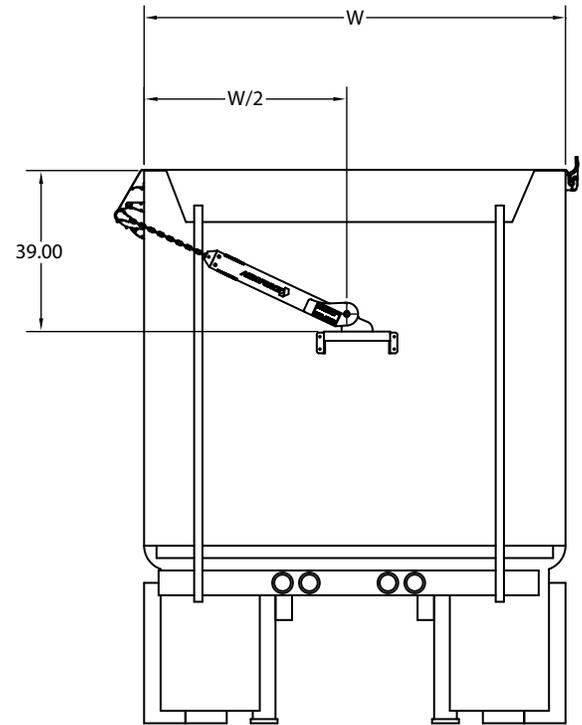
#### Mounting Standard Rear Bracket

**Note: Figure 18-1.** Center of the pivot needs to be in the center of the trailer.

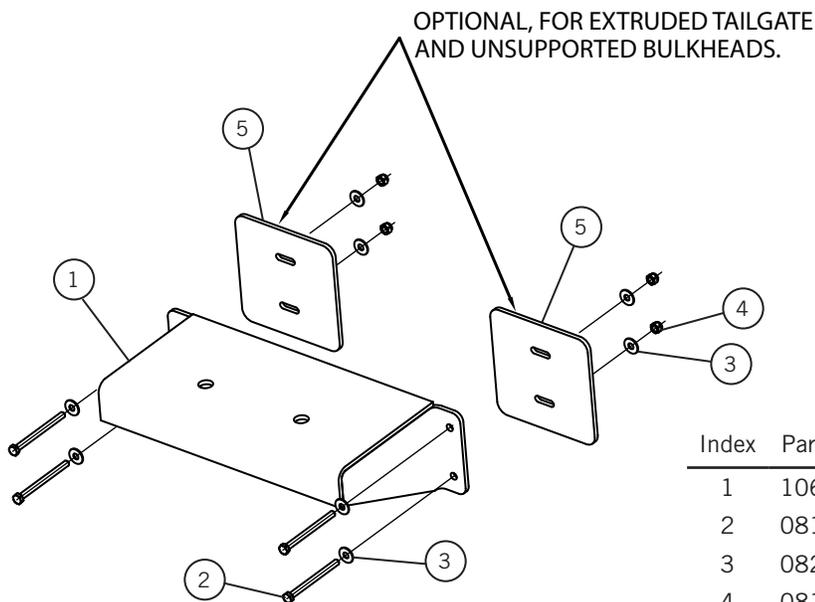
- 1) **Figure 18-2.** Drill four 3/8" holes using the mounting bracket as a template for the hole locations.
- 2) **Figure 18-3.** Use supplied hardware to mount the mounting bracket to the trailer.



**Figure 18-2**



**Figure 18-1**



**Figure 18-3**

**Note:** Mounting Brackets are supplied with standard Pivot Mounting hole locations at 3/8" dia. through. Standard holes must be drilled out to 7/8" for proper fastener fit. If alternate locations are required, holes must be marked and drilled through at 7/8" dia.

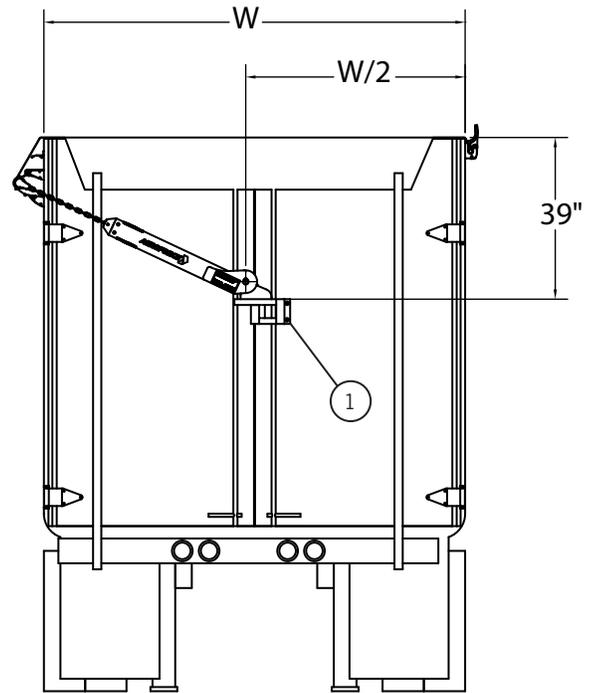
Index	Part Number	Description	Qty
1	1061-940030	BRACKET, PIVOT MOUNT	1
2	0810-650106	5/16-18 UNC - 4 - BOLT HHCS	4
3	0820-680520	5/16 USS FLAT WASHER	8
4	0815-660550	5/16-18 NYLON LOCK NUT	4
5	1061-840443	BACKING PLATE (OPTIONAL)	2

### Step 8b

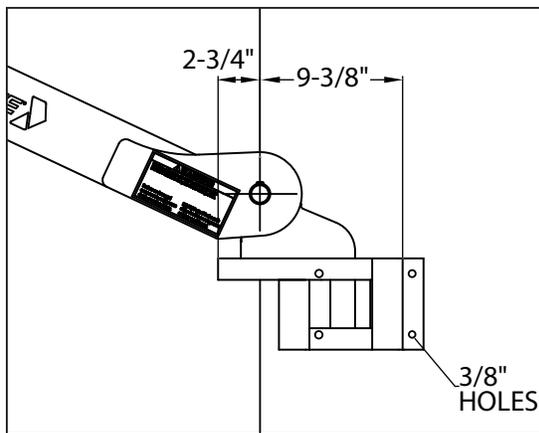
#### Mounting Rear Double Door Arm Mount

**Note: Figure 19-1.** Center of the pivot needs to be in the center of the trailer.

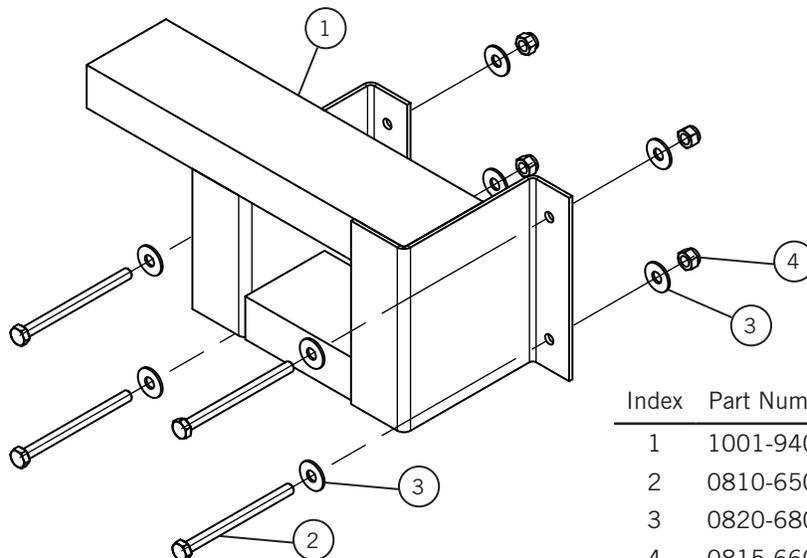
- 1) **Figure 19-2.** Drill four 3/8" holes using the mounting bracket as a template for the hole locations.
- 2) **Figure 19-3.** Use supplied hardware to mount the mounting bracket to the trailer.
- 3) **Figure 19-2.** Locate pivot assembly, centered on bracket as shown.
- 4) Mark and drill two holes 7/8" dia. using rear ForceLink pivot casting tapped holes as reference for locations (holes are 6-3/8" apart). Holes can be drilled prior to **Step 8b.2.**



**Figure 19-1**



**Figure 19-2**



**Figure 19-3**

Index	Part Number	Description	Qty
1	1001-940200	DOUBLE DOOR ARM MOUNT	1
2	0810-650106	5/16-18 UNC - 4 - BOLT HHCS	4
3	0820-680520	5/16 USS FLAT WASHER	8
4	0815-660550	5/16-18 NYLON LOCK NUT	4

# AeroForce S2S

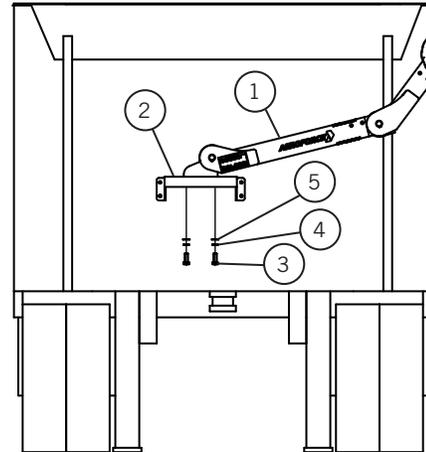
## Installation Instructions

### Step 9a

#### Mounting Arms

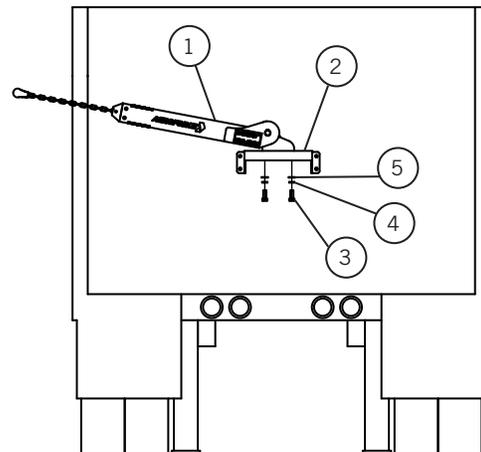
- 1) **Figure 20-1.** Using the supplied hardware, mount the front arm assembly to the mounting bracket located on the front of the trailer.
- 2) **Figure 20-2.** Using the supplied hardware, mount the ForceLink assembly to the mounting bracket located on the rear of the trailer.

Index	Description	Qty
1	FRONT ARM ASSY W/AEROMAX	1
2	PIVOT MOUNTING BRACKET	1
3	3/4-10 UNC - 1.5 - BOLT HHCS	4
4	3/4 - SPLIT LOCK WASHER	4
5	3/4 - USS FLAT WASHER	4



**Figure 20-1**

Index	Description	Qty
1	FORCELINK ASSEMBLY	1
2	PIVOT MOUNTING BRACKET	1
3	3/4-10 UNC - 1.5 - BOLT HHCS	4
4	3/4 - SPLIT LOCK WASHER	4
5	3/4 - USS FLAT WASHER	4



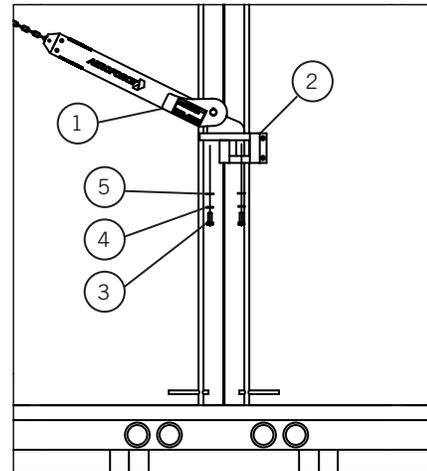
**Figure 20-2**

### Step 9b

#### Mount Rear ForceLink Assembly for Double Swing Doors

- 1) **Figure 21-1.** Using the supplied hardware, mount the rear ForceLink assembly to the mounting bracket located on the rear of the trailer.

Index	Description	Qty
1	REAR FORCELINK ASSEMBLY	1
2	PIVOT MOUNTING BRACKET	1
3	3/4-10 UNC - 1.5 - BOLT HHCS	4
4	3/4 - SPLIT LOCK WASHER	4
5	3/4 - USS FLAT WASHER	4



**Figure 21-1**

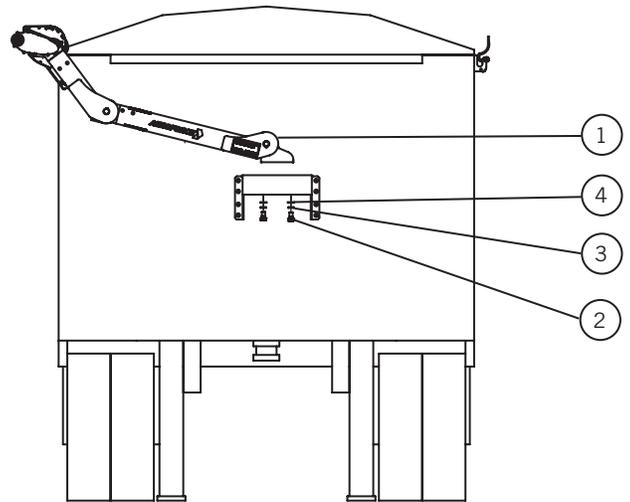
### Step 9c

#### Mounting Arms, Reverse Roll (Front)

- 1) **Figure 22-1.** Using the supplied hardware, mount the front arm assembly to the mounting bracket located on the front of the trailer.

Note: The front assembly is rotated 180 degrees around. The motor assembly will be on the inside between the arm assembly and the front of the trailer. Make sure there are no obstacles within the path of the front arm assembly.

Index	Description	Qty
1	FRONT ARM ASSY W/MOTOR	1
2	3/4-10 UNC - 1.5 - BOLT HHCS	2
3	3/4 - SPLIT LOCK WASHER	2
4	3/4 - USS FLAT WASHER	2



**Figure 22-1**

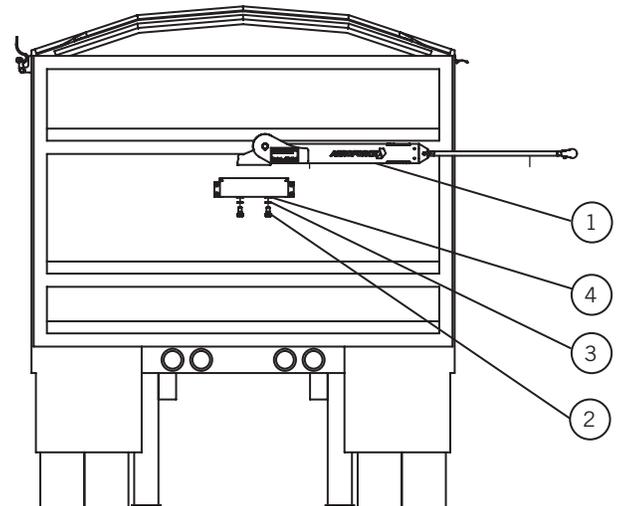
### Step 9d

#### Mounting Arms, Reverse Roll (Rear)

- 1) **Figure 22-2.** Using the supplied hardware, mount the rear arm assembly to the mounting bracket located on the rear of the trailer.

Note: The rear assembly is rotated 180 degrees from standard.

Index	Description	Qty
1	FORCELINK ASSEMBLY	1
2	3/4-10 UNC - 1.5 - BOLT HHCS	2
3	3/4 - SPLIT LOCK WASHER	2
4	3/4 - USS FLAT WASHER	2



**Figure 22-2**

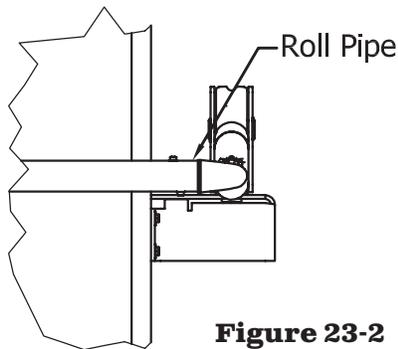
# AeroForce S2S

## Installation Instructions

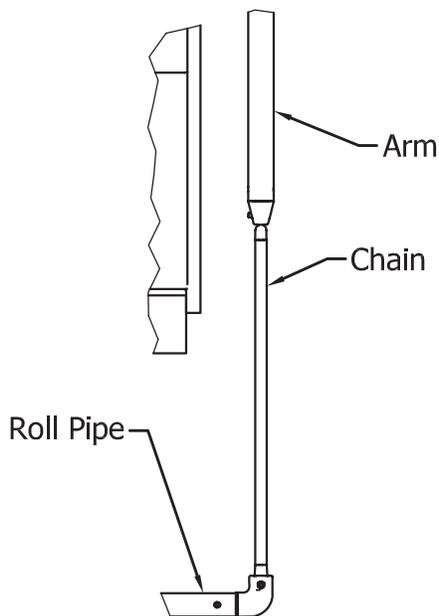
### Step 10a

#### Roll Pipe Hookup

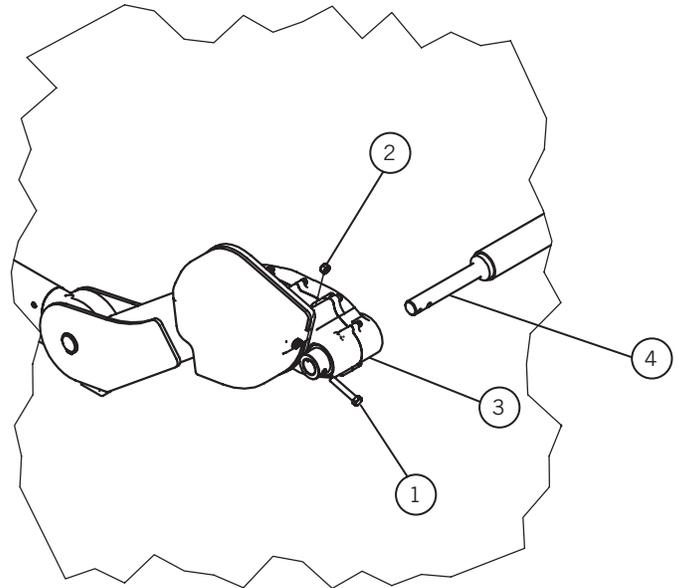
- 1) **Figure 23-1.** Insert roll pipe into the Torque Amplifier.
- 2) **Figures 23-1 & 23-2.** Use the supplied 3/8-16 UNC X 2.25" bolt and nut to connect the roll pipe to the output of the Torque Amplifier.
- 3) **Figure 23-3.** Cut roll pipe down so the chain on the 90 degree casting is inline with the arm.
- 4) **Figure 23-4.** Slide roll pipe over the ForceLink pipe bushing.
- 5) **Figure 23-4.** Use the supplied Tek screw to connect the roll pipe to the bushing.



**Figure 23-2**

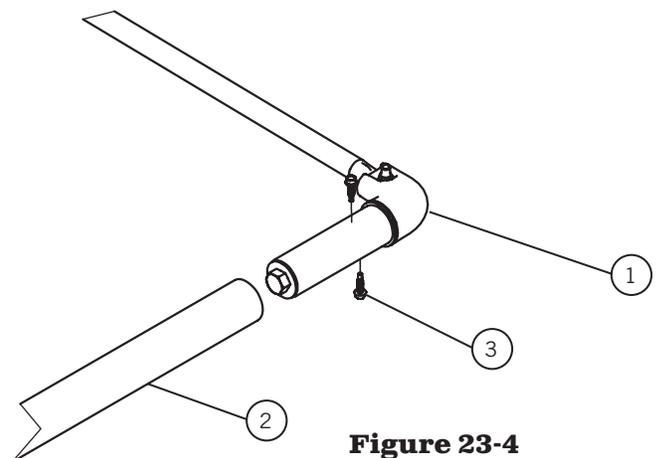


**Figure 23-3**



**Figure 23-1**

Index	Description	Qty
1	3/8-16 UNC - 2.25 - BOLT HHCS	1
2	3/8-16 NYLON LOCK NUT	1
3	TORQUE AMPLIFIER	1
4	ROLL PIPE	1



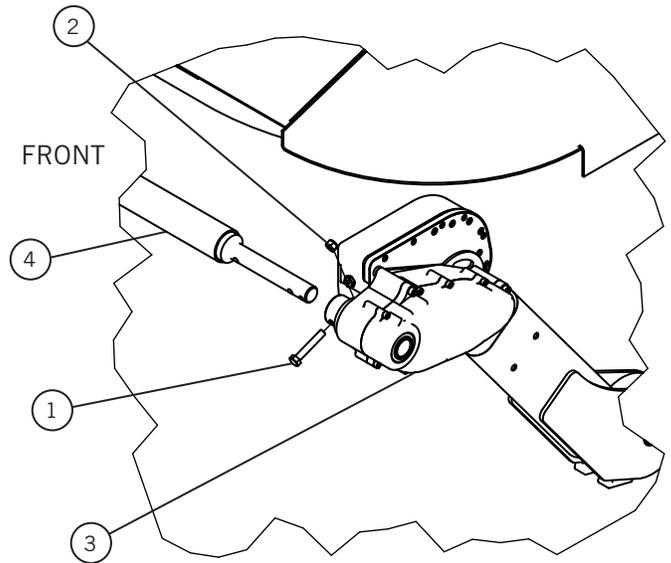
**Figure 23-4**

Index	Description	Qty
1	FORCELINK	1
2	ROLL PIPE	1
3	TEK SCREWS	2

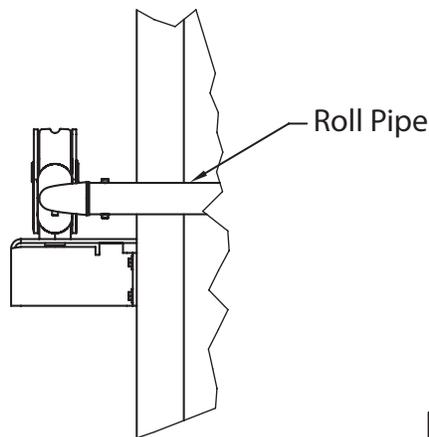
### Step 10b

#### Roll Pipe Hookup, Reverse Roll

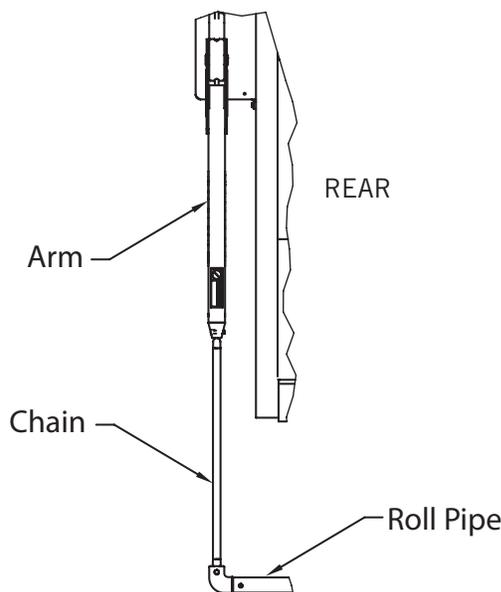
- 1) **Figure 24-1.** Insert roll pipe into the gearbox.
- 2) Use the supplied 3/8-16 UNC X 2.25" bolt and nut to connect the roll pipe to the output of the gearbox.
- 3) **Figures 24-2 & 24-3.** Cut roll pipe down so the chain on the 90 degree casting is inline with the arm.
- 4) **Figure 24-4.** Slide roll pipe over the rear arm pipe bushing.
- 5) **Figure 24-4.** Use the supplied Tek screw to connect the roll pipe to the bushing.



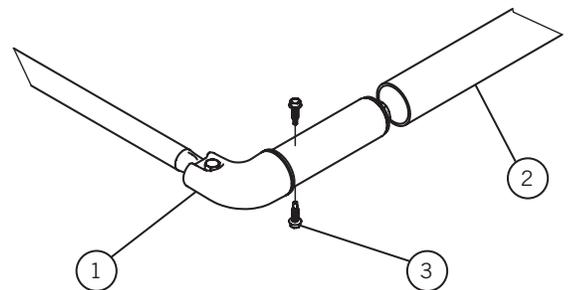
**Figure 24-1**



**Figure 24-2**



**Figure 24-3**



**Figure 24-4**

Index	Description	Qty
1	3/8-16 UNC - 2.25 - BOLT HHCS	1
2	3/8-16 NYLON LOCK NUT	1
3	MOTOR GEARBOX KIT	1
4	ROLL PIPE, DRIVE ADAPTER	1

Index	Description	Qty
1	ARM, CHAIN ASSY	1
2	ROLL PIPE	1
3	TEK SCREWS	2

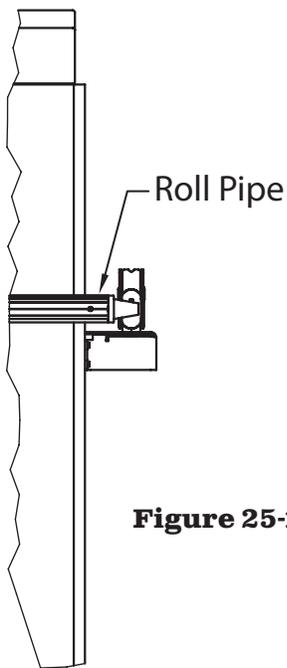
# AeroForce S2S

## Installation Instructions

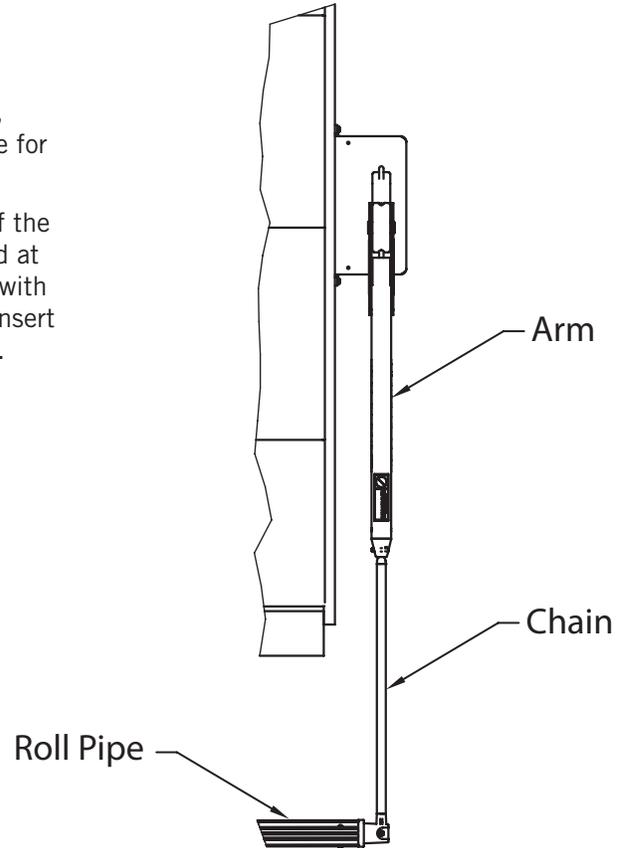
### Step 10c

#### 3" Roll Pipe Rear Hookup

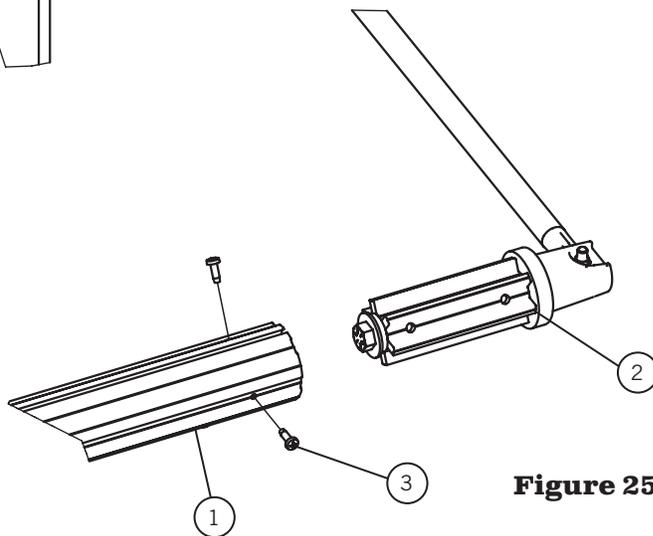
- 1) **Figures 25-1 & 25-2.** Trim 3" roll pipe at rear to fit, ensuring the rear arm assembly and chain are inline for proper operation.
- 2) **Figure 25-3.** Using the center lines in the valleys of the roll pipe, drill three 1/4" holes 2" back from the end at 120 degrees opposed around the pipe. Align holes with corresponding holes in the rear adapter assembly. Insert self-tapping screws to secure ForceLink to roll pipe.



**Figure 25-1**



**Figure 25-2**



**Figure 25-3**

Index	Description	Qty
1	ROLL PIPE	1
2	FORCELINK (REAR ARM)	1
3	1/4-28 SELF-TAPPING SCREWS	3

# AeroForce S2S

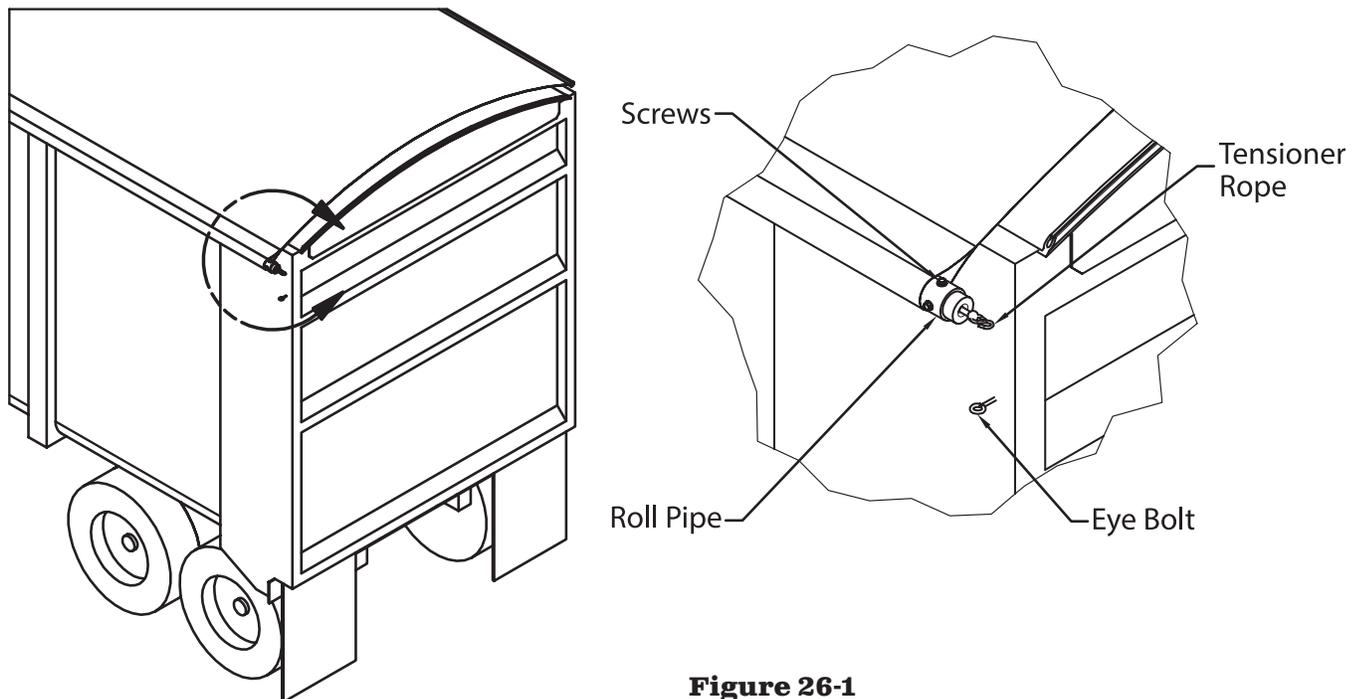
## Installation Instructions

### Step 11

#### Rear Tensioner

**Insert Rear Tensioner assembly fully into roll tube, should be an interference fit.**

- 1) Pre-drill 2 holes, 90 degrees opposed, and insert self tapping screws.
- 2) Holes/screws are 1" from tensioner/roll pipe interface.
- 3) Attach eyebolt inline with tensioner rope/s-hook if possible to limit wear.
- 4) Eyebolt should be approximately 12" below tensioner rope with sufficient tension on hook/rope (10#).
- 5) When rear cap on gate is present, attach eyebolt to gate.
- 6) No rear cap, eyebolt can be attached to rear post or gate (tension rule applies).
- 7) Insert tensioner s-hook into eyebolt before testing roll-up.



**Figure 26-1**

# AeroForce S2S

## Installation Instructions

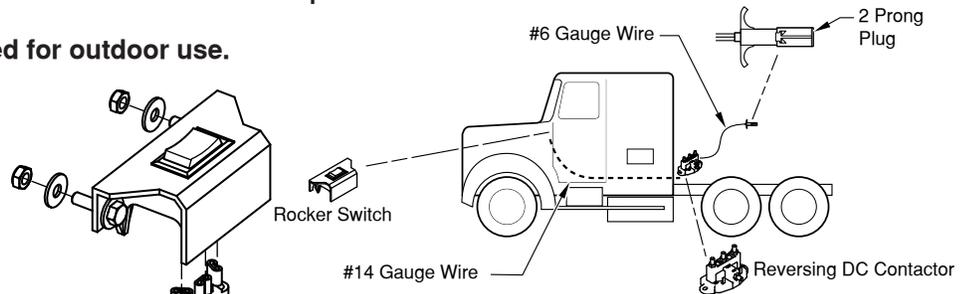
### Step 12a

#### Semi-trailer Truck Wiring

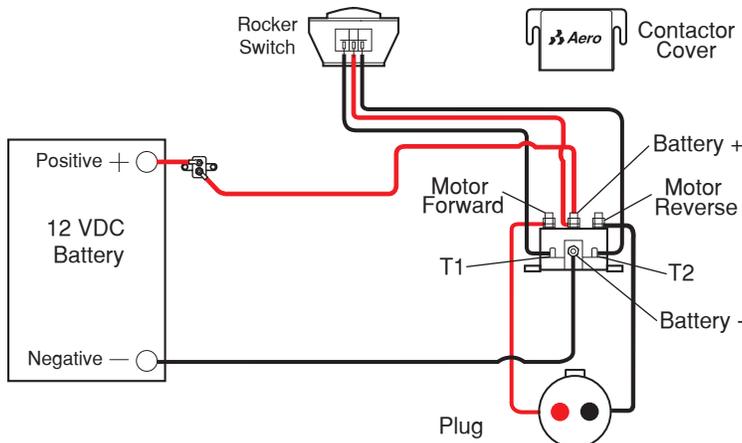
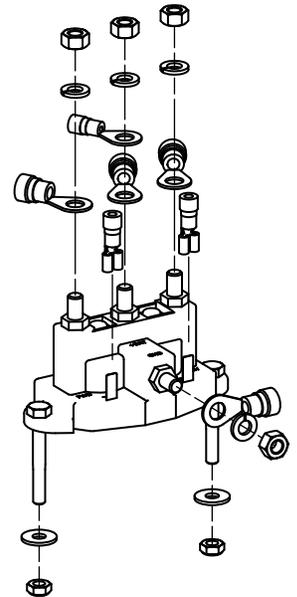
**▲ IMPORTANT:** Locate Operation/Maintenance Sheet and keep near switch.

**▲ IMPORTANT:** Switch is not rated for outdoor use.

1) Find a convenient place on the driver's side under the dashboard to mount the rocker switch with 1/4-20 x 1" hex bolts

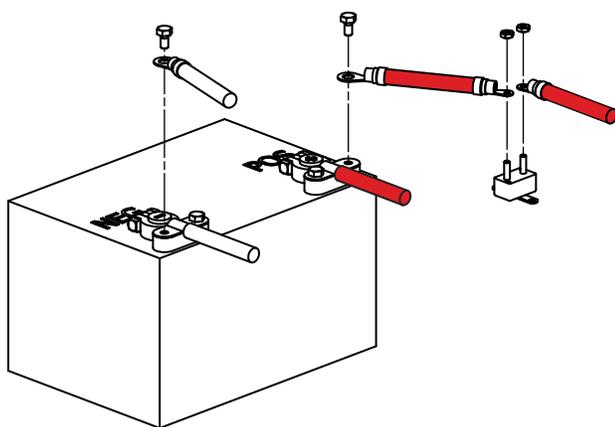


2) Mount reversing contactor outside near back of cab with 1/4-20 x 2" hex bolts.

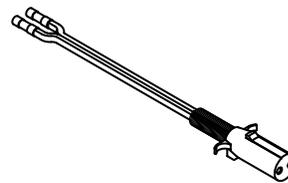


3) Run wire from switch to reversing contactor. Run wire from battery to reversing contactor. Secure all wire with clamps.

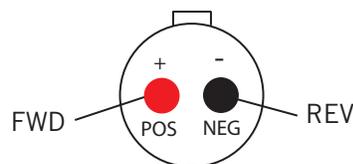
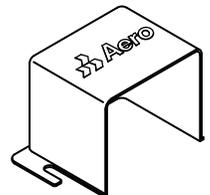
4) Connect breaker to battery and secure with zip ties.



5) Run wires from reversing contactor to plug, making sure there is enough wire to reach the receptacle.



6) Place cover on reversing contactor.



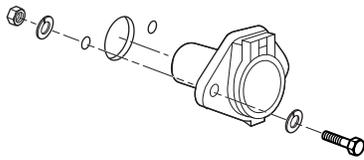
# AeroForce S2S

## Installation Instructions

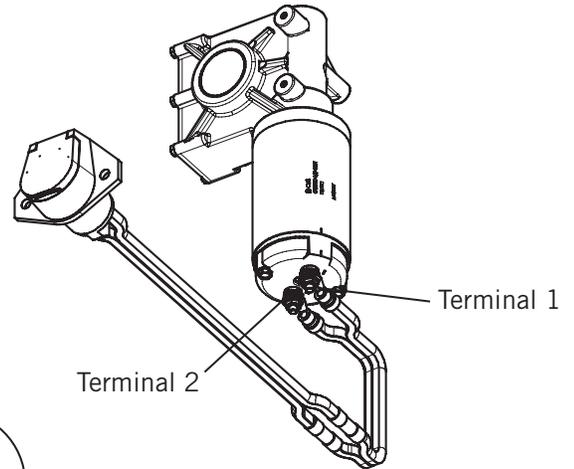
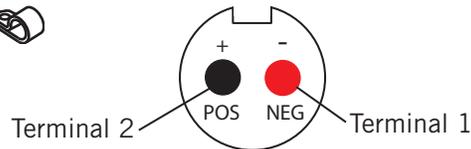
### Step 12b

#### Semi-trailer Wiring

- 1) Mount receptacle in convenient location.



- 2) Run wire from receptacle to AeroMax. Secure all wire with clamps.



### Step 12c

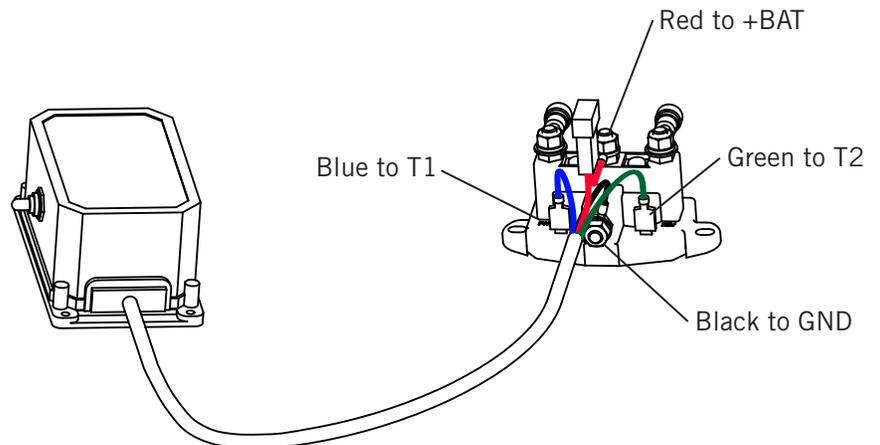
#### Optional Remote Wiring

**▲ IMPORTANT:** Locate Operation/Maintenance Sheet and keep in a convenient location.

**▲ IMPORTANT:** Remote receiver must be mounted with the wires at the bottom.

The optional remote kit replaces the use of the rocker switch. Follow **Step 12a** and replace the rocker switch with the remote receiver.

- 1) Mount the remote receiver to the back of the cab with the provided screws.
- 2) Connect remote receiver to reversing DC Contactor. Secure all wire with clamps.



# AeroForce S2S

## Installation Instructions

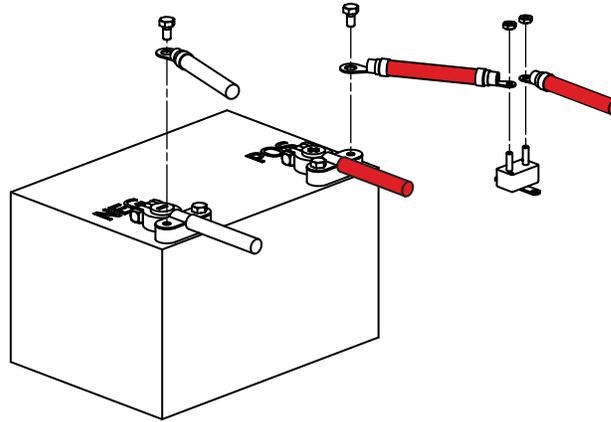
### Step 12d

#### Alternate Remote Wiring

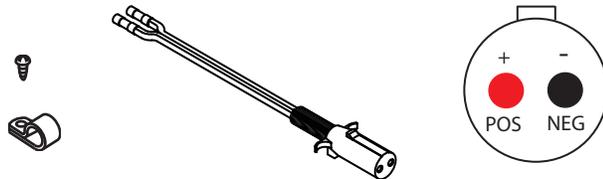
**⚠ IMPORTANT:** Locate Operation/Maintenance Sheet and keep in a convenient location.

#### Semi-trailer Truck Wiring

- 1) Connect breaker to battery and secure with zip ties.

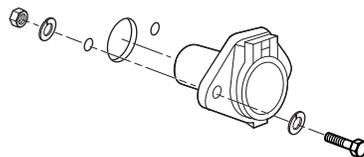


- 2) Run wire from battery to receptacle. Secure all wire with clamps.



#### Semi-trailer Wiring

- 3) Mount receptacle in convenient location on trailer.



# AeroForce S2S

## Installation Instructions

### Step 12d (cont.)

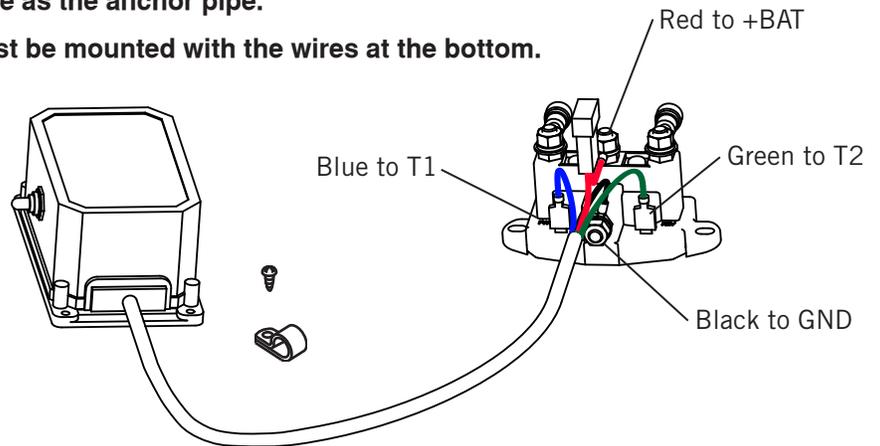
4) Mount reversing contactor under the nose of the trail with 1/4-20 x 2" hex bolts.

**⚠ WARNING: DO NOT place remote receiver in the path of the swing arm, or injury could occur. Mount it on the face of the trailer on the same side as the anchor pipe.**

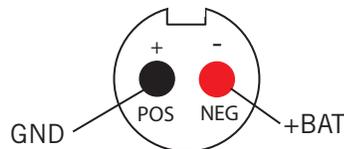
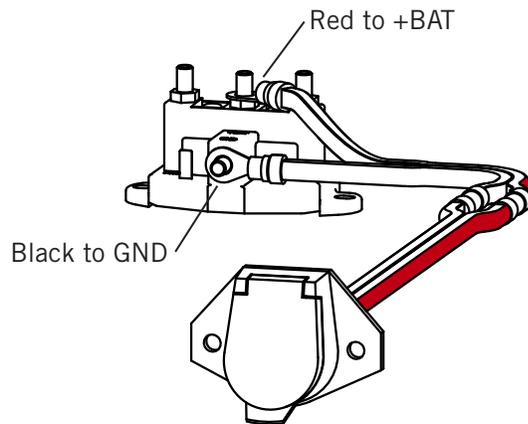
**▲ IMPORTANT: Remote receiver must be mounted with the wires at the bottom.**

5) Mount the remote receiver to the back of the cab with the provided screws.

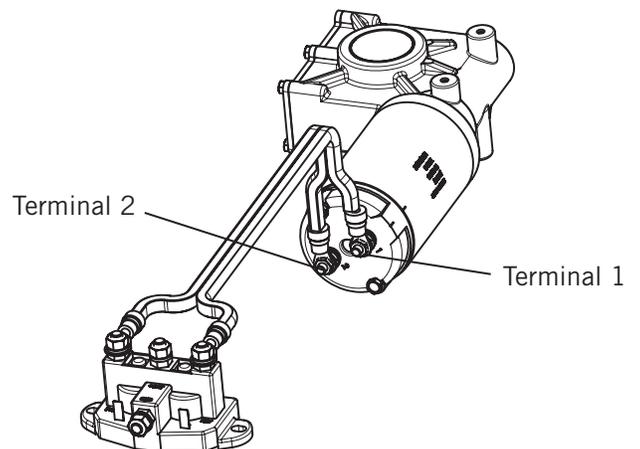
6) Connect remote box to reversing DC Contactor. Secure all wire with clamps.



7) Connect receptacle to reversing DC contactor. Secure all wire with clamps.



8) Connect reversing DC Contactor to AeroMax. Secure all wire with clamps.



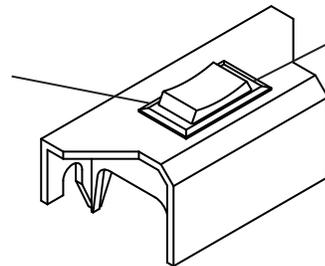
**▲ IMPORTANT: The reversing DC contactor should be mount under the nose of the trailer NOT near the AeroMax.**

## How to Operate AeroForce S2S

**NOTICE:** NOT releasing the switch when the covered or uncovered position is reached may cause the AeroMax to burn out.

### Switch

Push to cover unit and release when fully covered.



Push to uncover unit and release when fully uncovered.

### Remote Operation

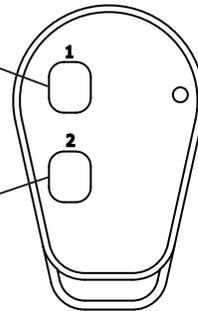
To operate the remote, disable the safety lock out by pushing both buttons for 2 seconds.

NOTE: After 1 minute of not pushing a button on the remote the safety lock out is activated.

### Key FOB

Push to cover unit and release when fully uncovered.

Push to uncover unit and release when fully covered.



### Receiver



Uncover

Manual Switch

Cover

### Explanation of Signal Words

**⚠ WARNING:** Indicates a hazardous situation which, if not avoided could result in death or serious injury.

**⚠ CAUTION:** Indicates a hazardous situation which, if not avoided could result in minor or moderate injury.

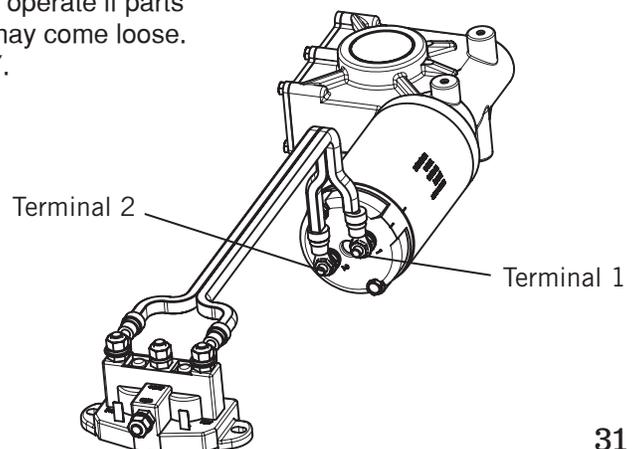
### Safety Messages Related to the Operation of AeroForce S2S

Maintenance recommendations, safety messages, and repair instructions can be found at [www.s2soperation.com](http://www.s2soperation.com) or call 800-535-9545.

**⚠ CAUTION:** Routinely inspect tarp and swing arms, DO NOT operate if parts are worn or damaged. Worn or damaged parts may come loose. Replace all worn or broken parts IMMEDIATELY.

**⚠ CAUTION:** If the arms are damaged or fail to rotate freely under normal operation, DO NOT operate. Secure any damaged parts until repairs can be made.

**⚠ WARNING:** The swing arms rotate under extreme spring tension during operation. Make sure no one is in the path of or on the arms.



## How to Maintain AeroForce S2S

**▲ IMPORTANT:** Replace all worn or broken parts immediately. Repairs must **ONLY** be made after proper instruction.

Minimal maintenance is required for the AeroForce S2S. Individual usage and operating conditions will determine when to check the AeroForce S2S. Aero Industries recommends a weekly inspection of the following items:

-  Inspect Tarp for wear and tears.
-  Inspect arms for damage (cracked, dented or bent).
-  **Bearings:** Pull the shafts from side to side and in and out. If there is excessive play, replace the bearings. Lubricate as often as necessary with penetrating oil. DO NOT use an excessive amount of lubricant.
-  **Springs:** Examine springs for breakage or distortion. Apply a light coat of penetrating oil to tension springs as needed.
-  **Fasteners:** Make sure that all mounting bolts and screws are in place and tight and that no parts are worn or damaged.
-  **Chain:** Check the chain tension, that links move smoothly, and make sure the master link is on. Lubricate the chain regularly with penetrating oil.
-  **Electrical Connections:** Check all electrical connections and tighten any that have become loose.
-  **Safety Labels:** Clean labels with soap and water. Replace if damaged and/or difficult to read.

Replacement Parts and instructions may be obtained from your Aero dealer or by contacting Aero Industries.

### Explanation of Signal Words

- ▲ WARNING:** Indicates a hazardous situation which, if not avoided could result in death or serious injury.
- ▲ CAUTION:** Indicates a hazardous situation which, if not avoided could result in minor or moderate injury.

### Safety Messages Related to the Maintenance of AeroForce S2S

Maintenance recommendations, safety messages, and repair instructions can be found at [www.s2soperation.com](http://www.s2soperation.com) or call 800-535-9545.

- ▲ CAUTION:** Routinely inspect tarp and swing arms, DO NOT operate if parts are worn or damaged. Worn or damaged parts may come loose. Replace all worn or broken parts IMMEDIATELY.
- ▲ WARNING:** The swing arms rotate under extreme spring tension and damaged arms could come loose unexpectedly allowing the arm to rotate to with tremendous force. Before any repairs see repair instructions on website for "Properly Releasing Spring Tension" and properly release spring tension.
- ▲ WARNING:** DO NOT unlock the roll stops holding the anchor pipe before releasing the spring tension on the AeroForce S2S. Unlocking the roll stops can cause a rapid release of spring tension.

# AeroForce S2S

# AeroForce S2S



Call 1-800-535-9545  
[www.aeroindustries.com](http://www.aeroindustries.com)

**INDIANAPOLIS, IN**  
Indianapolis, IN 46241  
800-535-9545  
FAX: 317-244-1311

**OMAHA, NE**  
Omaha, NE 68137  
800-535-9545  
FAX: 402-895-6129

**KENT, OH**  
Kent, OH 44240  
888-237-2262  
FAX: 330-626-3277

© 2017 Aero Industries, Inc.  
*PATENT PENDING.*