

## -TOOLS REQUIRED

- 9/16" wrench
- Ratchet with 9/16" socket
- Phillips head screwdriver

## -PARTS INCLUDED

- Outer Air Stream Sway Bar Mounting Plate Driver (1)
  - Outer Air Stream Sway Bar Mounting Plate Passenger (1)
  - Inner Sway Bar Mounting Plate (2)
- HARDWARE INCLUDED**
  - 3/8"-16 x 3-1/2" Carriage Bolt (8)
  - 3/8" Grade 5 Washer (8)
  - 3/8" Grade 5 Lock Washer (8)
  - 3/8"-16 Grade 5 Hex Nut (8)
  - 3/8"-16 x 1" Flat Head Bolt S/S (8)
  - 3/8" Split Lock Washer S/S (8)
  - 3/8"-16 Hex Nut S/S (8)



## -CLAMP-ON TRAILER FRAME BRACKET SET-UP

- Assemble the Outer Air Stream Sway Bar Mounting Plate (Driver or Passenger) to the Inner Sway Bar Mounting Plate:

1. **Insert Top Bolts:** From the **OUTSIDE** of the bracket, insert two 3/8"-16 x 3-1/2" carriage bolts through the **top two square holes** in the outer plates.
2. **Place Mounting Plate:** Place the carriage bolts over your trailer frame and push mounting plate flush with the outer frame of the trailer.
3. **Align and Insert:** Align the protruding bolts with the top holes of the Inner Sway Bar Mount and slide onto the bolts.
4. **Add Hardware:** Install a 3/8" washer, a 3/8" lock washer, and a 3/8"-16 hex nut on each bolt. Only thread the nuts on by a few turns to loosely assemble the plates together (Figure 6).
5. **Determining Bolt Placement:** Determine the next closest holes from the bottom of the frame rail to install the lower two remaining carriage bolts through the plate assembly.
6. **Insert Bolts and Add Hardware:** Insert the bolts through the determined holes, and repeat Add Hardware from Step 4 (**DO NOT TIGHTEN DOWN BOLTS**) (Figure 2).



Figure 1: Hand tightening hardware loosely



Figure 2: Clamp-on hardware added loosely

## -SWAY BALL MEASUREMENT

- Determine the Sway Ball Trailer Plate location on the Outer Air Stream Mounting Plate:

1. **Slide Assembly:** Slide the Mounting Plates over until it is up against the Propane Tank Cover on the trailer.
2. **Place Mounting Plate:** Align the Sway Ball Mount with the holes on the outer frame and measure from the center of the trailer coupler to the center of the sway ball. That measurement should be 24". If the measurement is not 24", adjust the Sway Ball by moving it back one hole at a time on the Mounting Plate (Figure 3).
3. **Align and Insert:** Take apart the Clamp-On Bracket done in the first step of the install before moving onto the Sway Ball Installation.



Figure 3: Measurement from center of trailer coupler to center of sway ball is 24"

## **-SWAY BALL TRAILER PLATE INSTALLATION**

• Away from the trailer, take the Outer Air Stream Sway Bar Mount in your hand with the countersunk holes facing upwards:

1. **Insert:** Insert the four 3/8"-16 x 1" flat head screws into the countersunk holes (Figure 4).
2. **Hold:** Hold the four bolts in place and turn the plate over 180 degrees.
3. **Align and Place:** Place the Sway Ball Trailer Plate over the protruding bolts.
4. **Apply Anti-Seize:** Apply the supplied anti-seize to the threads of all sway ball stainless steel hardware to prevent galling and welding itself together.
5. **Add Hardware:** Place a 3/8" lock washer onto each bolt then hand thread a 3/8" nut onto each bolt.
6. **Tightening & Torque:** Tighten using a phillips screwdriver on the bolt head and a 9/16" wrench or socket and ratchet (Figure 5). Torque to 17 ft-lbs.

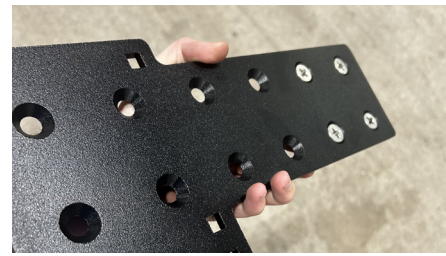


Figure 4: Inserting flat head screws

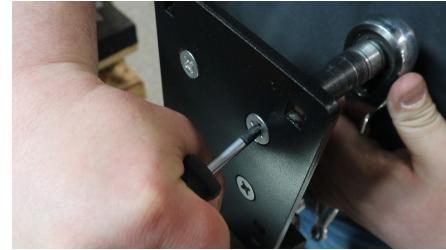


Figure 5: Tightening Sway Ball Trailer Plate

## **-CLAMP-ON TRAILER FRAME BRACKET INSTALLATION**

• Install the Outer Air Stream Sway Bar Mounting Plate (Driver or Passenger) to the Inner Sway Bar Mounting Plate and Tighten:

1. **Insert Top Bolts:** From the **OUTSIDE** of the bracket, insert two 3/8"-16 x 3-1/2" carriage bolts through the **top two square holes** in the outer plates.
2. **Place Mounting Plate:** Place the carriage bolts over your trailer frame and push mounting plate flush with the outer frame of the trailer.
3. **Align and Insert:** Align the protruding bolts with the top holes of the Inner Sway Bar Mount and slide onto the bolts.
4. **Add Hardware:** Install a 3/8" washer, a 3/8" lock washer, and a 3/8"-16 hex nut on each bolt. Only thread the nuts on by a few turns to loosely assemble the plates together (Figure 6).
5. **Determining Bolt Placement:** Determine the next closest holes from the bottom of the frame rail to install the lower two remaining carriage bolts through the plate assembly.
6. **Determining Bolt Placement:** Insert the bolts through the determined holes, and repeat Add Hardware from Step 4 (Figure 7).
7. **Final Tightening & Torque:** Tighten the carriage bolts in a cross pattern using a 9/16" socket and ratchet until snug. Torque both the top and bottom bolts to **10 ft-lbs** (120 in-lbs) if the frame height is a full equal inch (i.e. 4,5,6,8). Torque the top bolts to **10 ft-lbs** (120 in-lbs) and bottom bolts to **7 ft-lbs** (84 in-lbs) if the trailer frame height is between a full inch dimension (4-1/2, 5-1/2, etc.) and there is a gap between the lower bolts and the bottom of the trailer frame tube (Figure 8).
8. **Install Sway Control:** Install your Shocker Friction Sway Control Bars on both sides of the trailer (Figure 8).



Figure 6: Hand tightening hardware



Figure 7: All hardware added and tightened



Figure 8:  
Left Image: Bottom bolts have a gap so torqued to 7 ft-lbs  
Right Image: Top bolts torqued to 10 ft-lbs

**Note:** Final check the placement of the Clamp-On Bracket to ensure backing up slowly to jackknife does not collapse the Friction Sway Arm Bars (SH-1001).



Product Page



Warranty Registration

**THANK YOU FOR CHOOSING SHOCKER HITCH**

Shocker Hitch: Safer Smoother Towing - 2801 3RD AVE SW JAMESTOWN ND, 58401 | (701)-707-2666

• Email: [service@shockerhitch.com](mailto:service@shockerhitch.com) • Website: [www.shockerhitch.com](http://www.shockerhitch.com) • Installation Videos on Shocker Hitch YouTube Channel