

# FLOE RAMP & TILT TRAILERS

## Parts List



**Axle Mount Assembly (one set per axle)**

1/2" Flat Washers (8)  
001-33012-00

1/2 x 1 1/4" Hex Bolts (4)  
001-13207-00

1/2" Lug Nuts (10)  
005-08200-00

Tires (2 Per Axle)

Lock Nuts (4)  
001-37214-00

Teflon Insulator (2)  
005-05900-00

Axle 3" Rise  
OR  
Axle 1" Rise

**Ramp Trailer Tongue Assembly**

Tongue

1/2" x 4 1/4" Bolt (2\*)  
001-70220-00

1/2" Aluminum Nylock Nut (2\*)  
001-76072-00

\*NOTE: (3) Nuts and Bolts are required on 22' & 28' trailer tongues.

**Tilt Trailer Tongue Assembly**

Tongue

1/2 x 5" Bolt (1)  
001-13223-00

1/2" Flatwasher (1)  
001-33012-00

1/2" Heavy Nylock (1)  
001-37031-00

Spacer, Pivot Bolt (1)  
002-01534-00

**Tongue Jack Ass'y (If Equipped)**  
551-09901-00

3/8 x 3 3/4" Bolts (4)  
001-70118-00

3/8" Alum Nylock (4)  
001-76071-00

**Pre-Installed Clamp Ass'y (Tilt Only)**  
150-01558-00

Trailer	Tie Down Ass'y	Axle Ass'y	Axle Mount Ass'y
10 Ft.	2 Sets	(1) 2200 lb 3" Rise Axle	1 Set
12 Ft.	2 Sets	(1) 2200 lb 3" Rise Axle	1 Set
12 Ft. Tandem	2 Sets	(2) 2200 lb 3" Rise Axle	2 Sets
14-16 Ft.	3 Sets	(2) 2200 lb 3" Rise Axle	2 Sets
14 Ft. Single Axle	3 Sets	(1) 3000 lb 1" Rise Axle	1 Set
20 Ft. Tandem	4 Sets	(2) 2200 lb 1" Rise Axle	2 Sets
26-28 Ft. Tri Axle	6 Sets	(3) 2200 lb 1" Rise Axle	3 Sets

**Sold Separately**

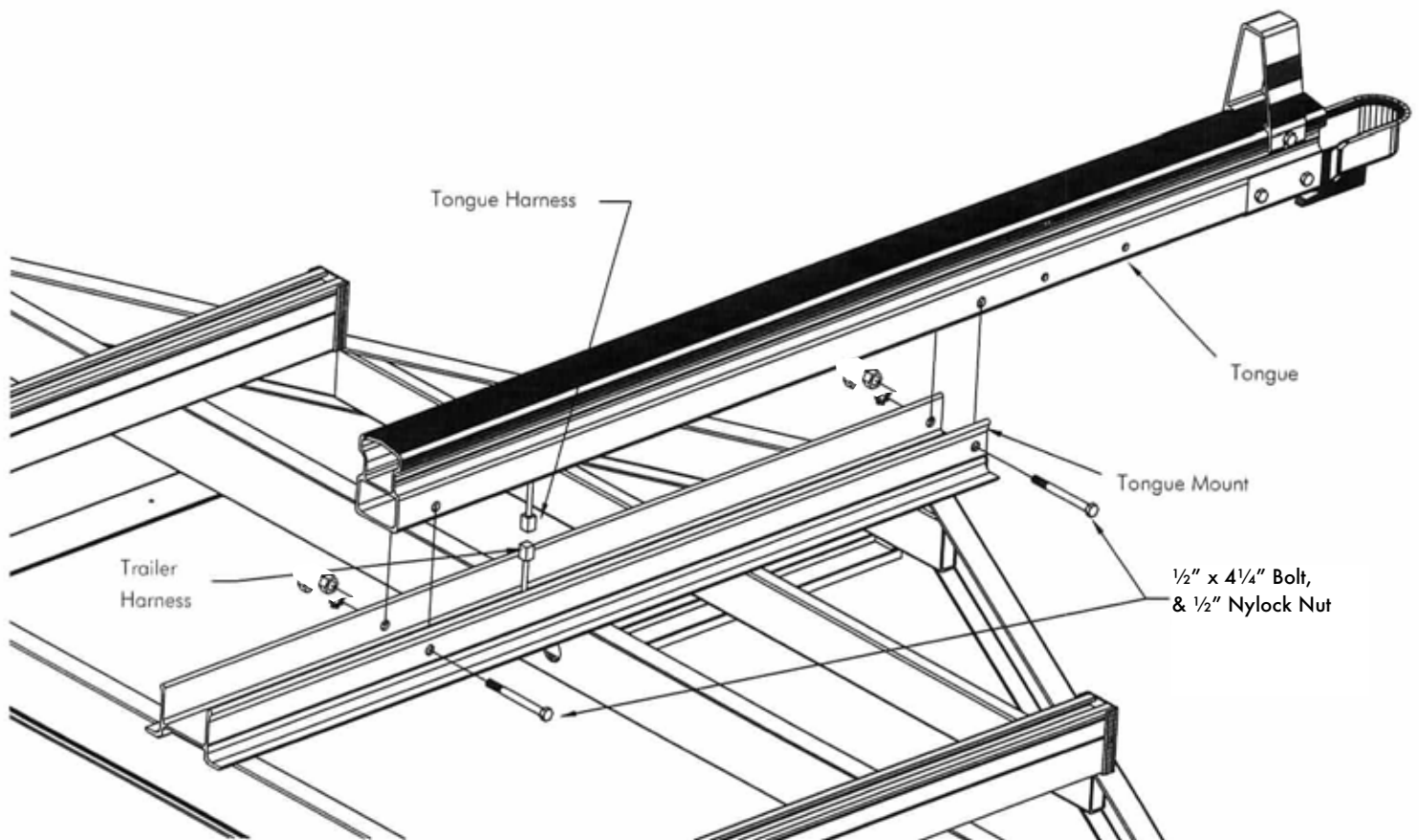
Verso-Lock Ass'y  
551-02550-00  
(See Sheet 5)

Tie Down Bar Ass'y  
150-00092-00

# **FLOE Ramp Trailers**

## **Tongue Assembly**

### **Instructions**

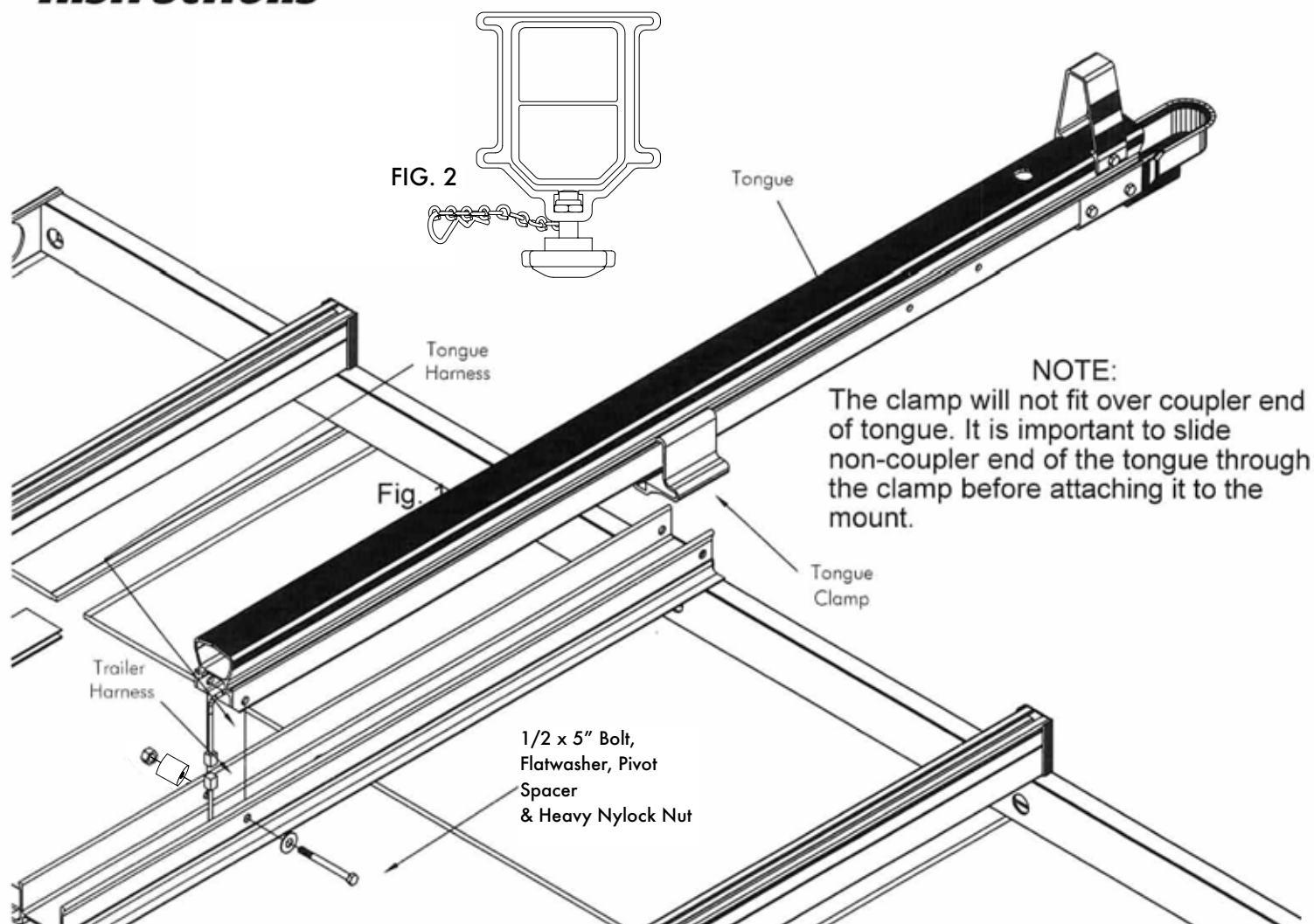


1. Unbolt the tongue from shipping tabs. The nuts and bolts will be used to attach the tongue to the trailer.
2. Connect the tongue harness to the wire harness on the trailer, and wrap this connection with electrical tape.
3. Fasten the tongue to the tongue mount using the same nuts and bolts used for shipping. (Note: 22' & 28' trailers use 3 bolts per tongue) Torque to 80 ft./lbs.

# **FLOE Tilt Trailers**

## **Tongue Assembly**

### **Instructions**



1. Unbolt the tongue from shipping tabs. The 1/2" x 5" bolt, Nylock nut, flat washer and pivot spacer are used to attach the tongue to the trailer. The 3/8" bolt and nut are used for shipping only.
2. Loosen the tongue clamp by turning the Knob Bolt. Remove hair pin clip from the tongue mount. Slide tongue into tongue mount through the clamp. (Dee Fig. 2).
3. Connect the tongue harness to the wire harness on the trailer, and wrap this connection with electrical tape.
4. Bolt the tongue to the tongue mount using the 1/2" x 5" bolt, Nylock nut, flat washer, and pivot spacer as shown above. Torque to 80 ft/lbs.
5. Slide the 8" wire cap over the exposed wire harness at the back of the trailer.

# **FLOE Ramp & Tilt Trailers**

## **Axle Assembly Instructions**

1. Place teflon insulators on the axle beam mount and line up holes. Some trailers will have two sets of holes with the front set as the standard location. The rear set can be used to add tongue weight.
2. Set axle(s) on top of Teflon insulators so trailing arm taper is to the rear of trailer. Start each of the four bolts but do not snug up yet. See Fig. 1 and Fig. 2
3. Pick a point on the outer edge of the axle(s) that can be easily measured to on both sides. Measure from the center of the coupler to these points (fig. 3). Adjust axles so these two measurements are equal to within  $1/16"$ . If mounting more than one axle, start with the rear and work forward.
4. Tighten all four bolts to 75 ft/lbs. Recheck alignment.

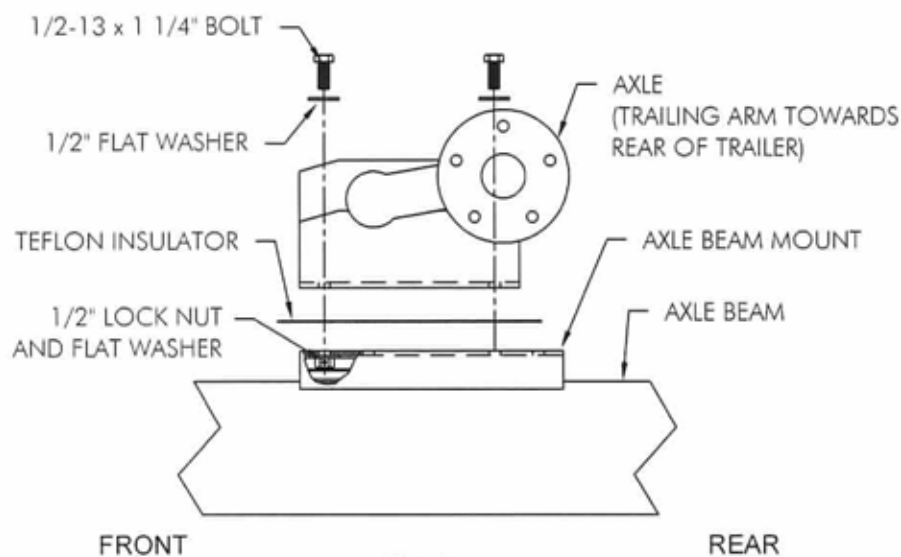


Fig. 2  
(Shown Upside Down)

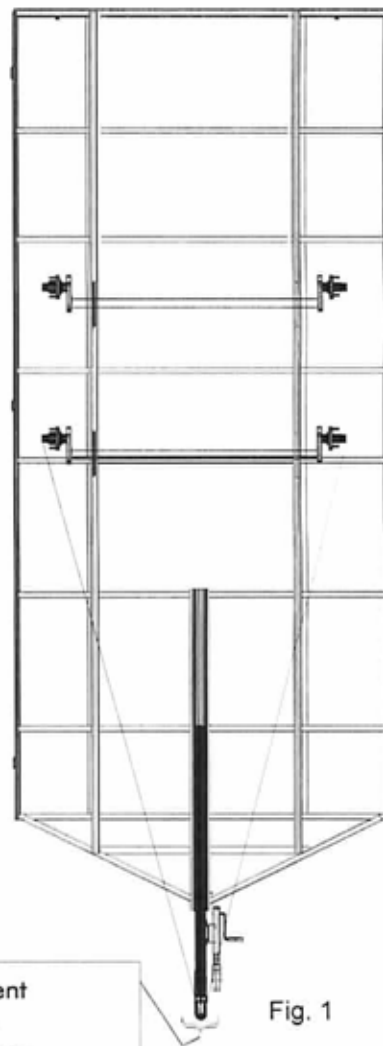


Fig. 1

**IMPORTANT:** For proper alignment these two measurements from #4 must be within a  $1/16"$  of each other.

# Mounting Wheels/Connecting Brakes

1. Start all lug nuts by hand to prevent cross threading and ensure proper seat.

2. Tighten the lug nuts in the sequence detailed below:

- For steel rims – Tighten to 50-75 ft/lbs.
- For aluminum rims – Tighten to 90-120 ft/lbs.



3. Fill tires to appropriate PSI.

A minimum of 2-1/2" must be kept between the tire and trailer frame. If larger tires are used, spacer blocks may be needed.

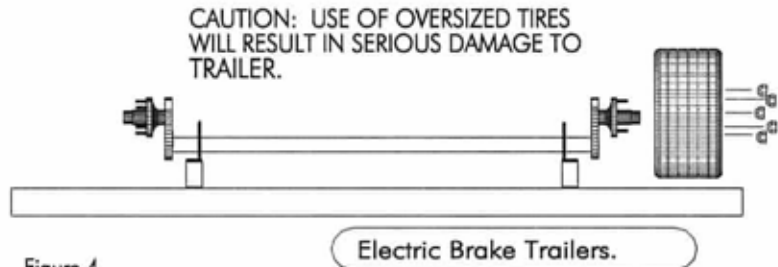


Figure 4

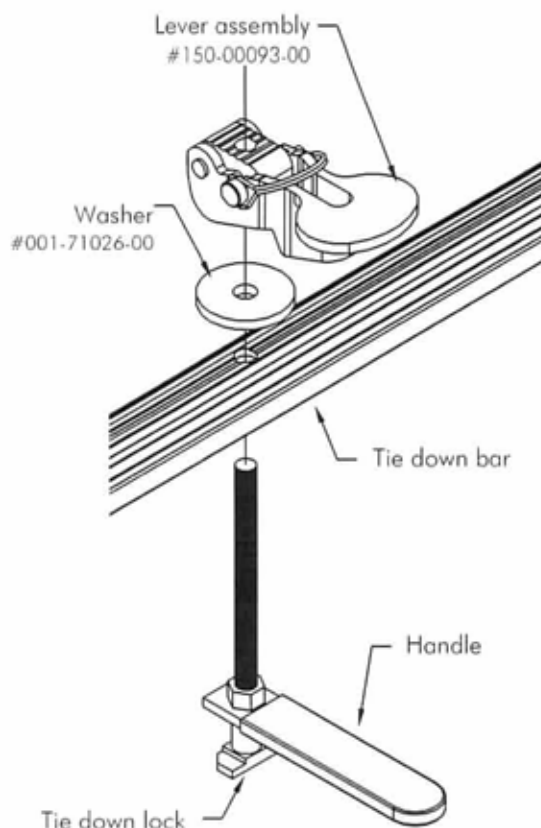
1. Slide a piece of shrink tubing over electric brake line connections on the trailer.
2. Crimp the male bullet connectors to the axle wires. Plug the connections together. Position shrink tubing completely over connection and shrink with heat gun.

**LUG NUTS ON NEW WHEELS MUST BE RE-TORQUED AFTER THE FIRST 10-25 AND 50 DRIVING MILES. CHECK PERIODICALLY THEREAFTER.**

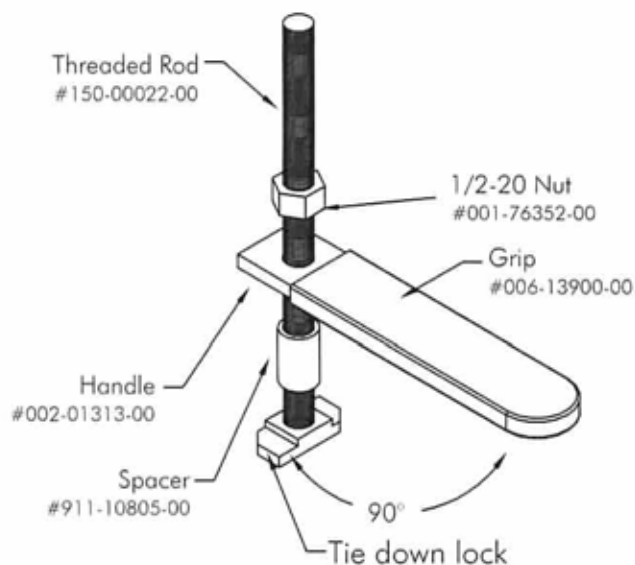
THIS SHOULD BE DONE AS CLAMPING LOADS CAN CHANGE FOLLOWING THE INITIAL INSTALLATION DUE TO THE METAL COMPRESSION/ELONGATION OR THERMAL STRESSES AFFECTING THE WHEELS AS THEY ARE BREAKING IN, AS WELL AS TO VERIFY THE ACCURACY OF THE ORIGINAL INSTALLATION.

# **FLOE Versa-Lock (Sold Separately) Assembly Instructions**

1. Slide spacer tube and handle over threaded rod. Thread 1/2" nut down to handle and tighten so handle is perpendicular (90°) to tie down lock. Torque to 60 ft/lbs. See Fig. 1.

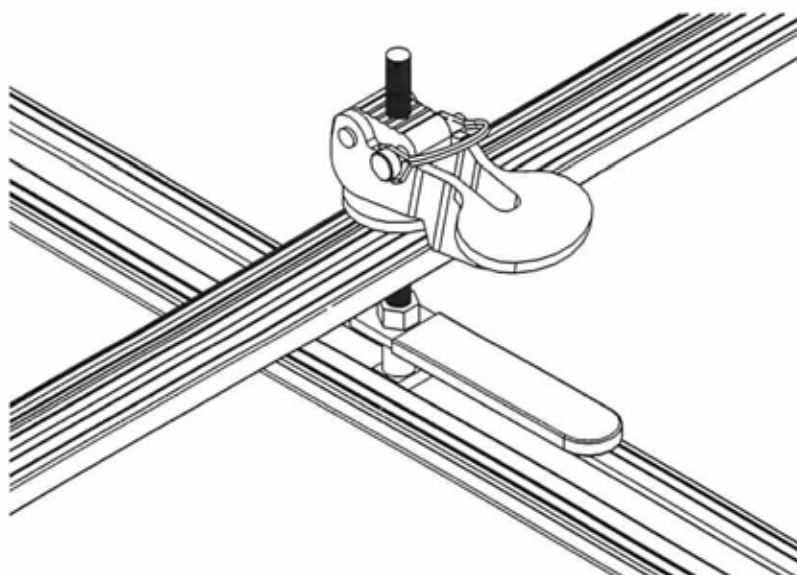


**Fig. 2**



**Fig. 1**

2. Insert threaded rod through tie down bar from the bottom. The tie down lock and handle assembly should be on the bottom (flat) side of bar. Slide the washer over rod. Screw the lever assembly onto the rod until 1" of thread is sticking out the top of lever assembly. See Fig. 2.
3. Before using the Versa-Lock to secure a load, read and understand the instructions on how to use it.



**WARNING:** Failure to read the Versa-Lock use instructions prior to using it could result in severe damage to the cargo it is meant to hold, could cause a road hazard or even death.



