

## **Mighty-Tite Quick-Release Tie-Down**

**US Pat. No. 7,959,389**

**SKU: TF001901**



**Thumper Fab**  
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Thumper Fab

Mighty Tite

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PARTS

REF	QTY	DESCRIPTION
A	1	Rear Latch Assembly
B	2	Front Mount Plate
C	2	Front Wheel Base
D	2	Vertical Plate
E	2	T-Bar
F	2	Wheel Brace
G	1	Rear Mount Plate
H	1	Tie Down Chain
I	2	5/16"-18 x 2-1/4" Carriage Bolt
J	4	5/16" Flat Washer
K	4	5/16"-18 Nyloc Jam Nut
L	12	3/8"-16 x 2-1/2" Carriage Bolt
M	4	3/8"-16 x 3/4 Carriage Bolt
N	20	3/8" Flat Washer
O	12	3/8"-16 Nyloc Nut
P	8	3/8"-16 Nyloc Thin Jam Nut
Q	2	5/16"-18 x 2-3/4" Carriage Bolt
R	4	3/8"-16 x 1-1/4 Carriage Bolt

TOOLS

- 1/2" Socket
- 9/16" Socket
- 1/2" Wrench
- 9/16" Wrench
- 15/16" Wrench
- Impact Driver
- 3/8" Drill Bit
- Measuring Tape

## INSTALLATION INSTRUCTIONS

### Assemble the Wheel Cages

Use the 3/8"-16 x 3/4" **Ref M** carriage bolts to fasten the vertical plate **Ref D** and wheel brace **Ref F** to the front wheel base **Ref C**, making sure that the bolt head inserts into the the square cut-outs, as shown in **Figure 1**. Use the 3/8"-16 x 1-1/4" carriage bolt **Ref R** in the bottom hole and the 5/16"-18 2-3/4" carriage bolt **Ref Q** in the top hole to connect the wheel brace **Ref F** and t-bar **Ref E** to the vertical plate **Ref D**, as shown in **Figure 2**. Adjust the t-bar **Ref E** so that the front wheel makes contact with the vertical plate **Ref D**, as shown in **Figure 3**.

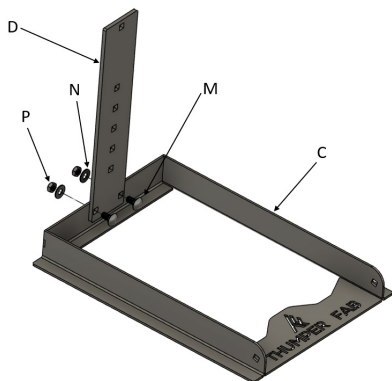


FIG 1

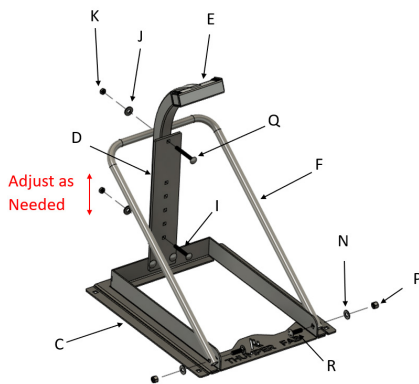


FIG 2

## INSTALLATION INSTRUCTIONS

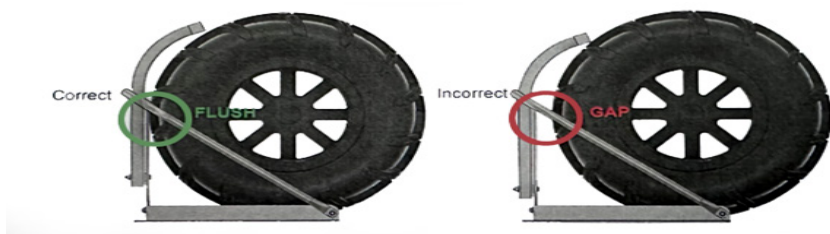


FIG 3

### Measure & Drill Front Mount Plates

Place the front mount plates **Ref B** in front of the tires on the unit and measure how far apart the plates will be spaced. Note measurements, then position the mount plates **Ref B** on the trailer and check that there is enough space in the back of the trailer to mount the rear latch **Ref A**. When the mount plates **Ref B** are correctly positioned, mark where the bolts will need to go through the trailer and drill the holes, as shown in **Figure 4**.

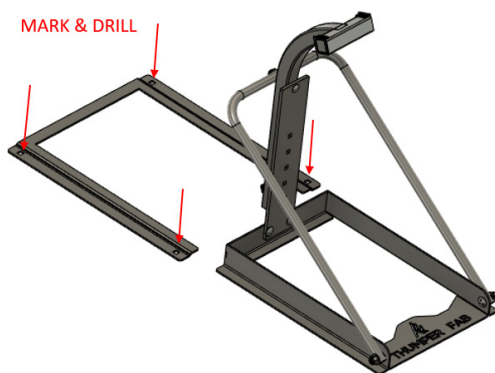


FIG 4

## INSTALLATION INSTRUCTIONS

### Attach Tie Down Chain

Thread the tie down chain **Ref H** into the rear latch assembly **Ref A**. Then use a 15/16" wrench or pliers to tighten down the jam nut, as shown in **Figure 5**.



FIG 5

### Tighten Down the Mount Plates

Use the 8 x 3/8"-16 x 2-1/2" bolts **Ref L**, 8 x 3/8" flat washers **Ref N**, and 8 x 3/8"-16 nyloc nuts **Ref O** to fasten the front mount plates **Ref G** to the trailer bed, making sure not to over tighten so that the wheel cage can be easily removed.

### Measure & Drill Rear Mount Plate

Drive the unit onto the trailer so that the front wheels are fully seated in the wheel cages. If needed, install the trailer hitch adapter on the unit. Place the latch assembly **Ref A**, as shown in **Figure 7**, so that it is roughly 3" in front of the trailer hitch. Mark where the bolts will need to go through the trailer and drill, as shown in **Figure 6**.

# INSTALLATION INSTRUCTIONS

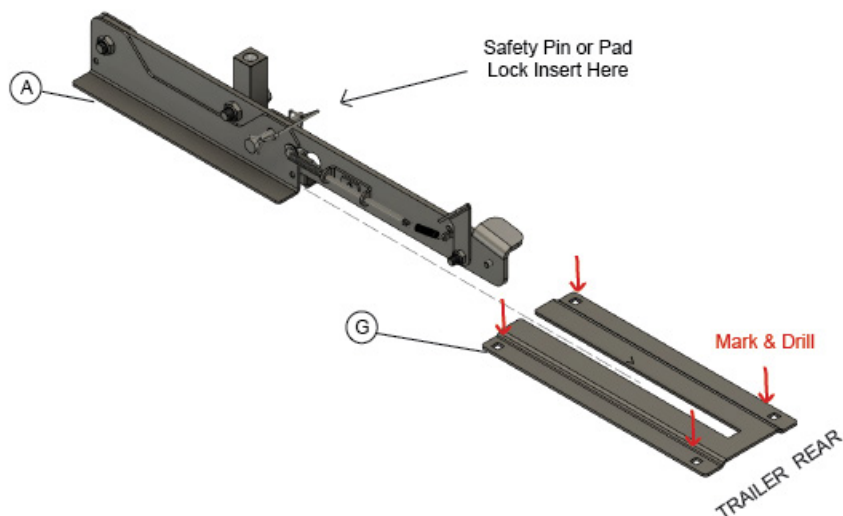


Figure 6



Figure 7

# INSTALLATION INSTRUCTIONS

## Tighten Down the Rear Mount Plate

Use the remaining 4 x 3/8"-16 x 2-1/2" bolts **Ref L**, 4 x 3/8" flat washers **Ref N**, and 4 x 3/8"-16 nyloc nuts **Ref O** to fasten the rear mount plate **Ref G** to the trailer bed, making sure not to over tighten so that the latch assembly can be easily removed.

## Tie Down the Unit

Drive the unit onto the trailer so that the front wheels are fully seated in the wheel cages. Lift the latch arm and attach the chain to the unit hitch. Push down on the latch arm until it locks into place. Make sure that the chain is not loose and re-adjust as needed.

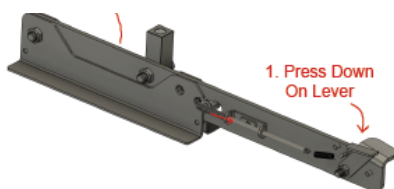


Figure 8

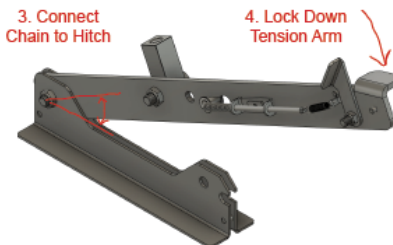


Figure 9

# INSTALLATION INSTRUCTIONS

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