

# INSTALLATION INSTRUCTIONS

## B4578BTPA

Fender Mounting Instructions for MIN400, MIN500, MIN700, MIN800 & MIN1500 Fenders

### STEP 1

- A. Unpack all cartons and layout parts.
- B. Compare your parts with the hardware kit B4578BTPA as shown in Figure 1.

B4578BTPA Mounting Kit



Figure 1

### STEP 2 (M500 and M700, 3 piece fenders)

- A. Lay the fenders out and clamp them together so that you can drill and bolt fenders together prior to installing them.
- B. Drill holes in fender from the bottom using the pre-existing holes as a guide. Use a 17/64" drill bit.
- C. Using the 1/4" x 3/4" long Phillips truss head bolts, attach the fender sections together. Tighten down the bolts using the supplied lock nuts. **DO NOT OVERTIGHTEN** the bolts. Start from the center and work towards the outside. See Figure 2.

**Note:**  
M700 Shown

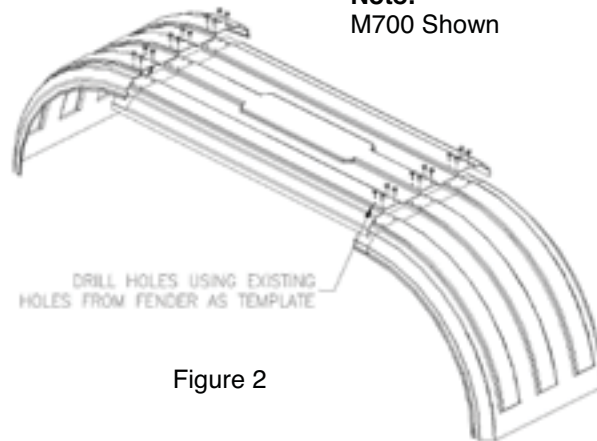


Figure 2

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## STEP 2 (M400 and M800, 2 piece fenders)

- A. Lay the fender out and clamp together so that the ends butt together.
- B. Try to use the center bracket to attach the two fenders together using the 5/16 x 1-1/4" supplied bolts. If the center bracket does not line up correctly you can bolt the two pieces together and place the center bracket as close to the center of fenders as possible. Figure 3 shows a typical center bracket installation. Try and use existing holes to mount center bracket to truck frame.

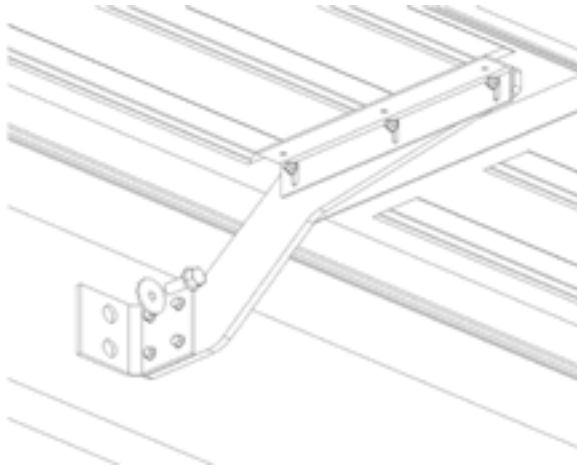


Figure 3

**NOTE:** The two holes in the steel mounting bracket are used for height adjustment. Only one hole is used for mounting. Pick one hole for mounting the center bracket and make sure the large dock washer goes on the outside of the angle bracket. The washer helps prevent the bracket from cracking due to road vibration.

## STEP 3

- A. Measure the travel of your suspension system. This measurement is used to determine the distance between the fender and the wheel. For air suspension systems let the air out of the air bags. For spring systems measure from the stops on the springs to the bottom of the frame. **NOTE:** For air suspensions with travel exceeding 6+". In some cases a travel stop may need to be installed, to prevent such large gaps between fenders & tires. This will help with alignment and 5<sup>th</sup> wheel plate clearance. (Questions regarding this issue, please call Spray Control @ 800-248-3855)
- B. Gap the fenders 3/4" over the maximum travel point of your suspension system. The goal is to make sure the fender does not rub on the tire. Be sure to compensate for tire wear. You may need more than 3/4" if you have worn tires.

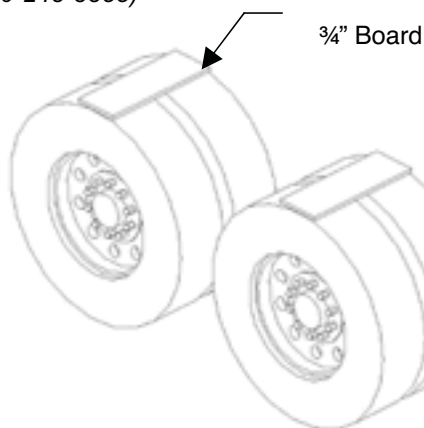


Figure 4

**TIP:** To establish the 3/4" minimum gap needed in Step 2B for an air suspension system, place a 3/4" board on top of tires after you have let out the air from your airbags,

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then place the fender on top of the board (see Figure 4). For a spring suspension system add  $\frac{3}{4}$ " to the measurement from step 3A.

## STEP 4

- A. Position the fenders exactly where you want to mount them. Visually pick and mark the locations the brackets will bolt to the frame. Try to use existing holes in the frame to bolt through. You can remove any existing frame bolt and replace it with the supplied bolt in the bracket kit. It is common for the front bracket to align with the existing quarter fender holes and the rear bracket to align with the holes left from the mud flap hanger.



Figure 5

**NOTE:** Depending on the length of the truck frame and the placement of the mud flap hangers, the fender may tuck inside the mud flap hanger. Figure 5 shows a truck with flaps and fenders.

- B. Spacers are supplied to bring the steel swivel away from the frame in the event of any obstructions (see Figure 6).
- C. Make sure the brackets are within 10" of the bottom of the fender to avoid wind blowing the fender back into the tire. If the front fender bracket is mounted higher than 10", run a piece of steel strapping on the inside of the fender to give it extra strength (see Figure 7).

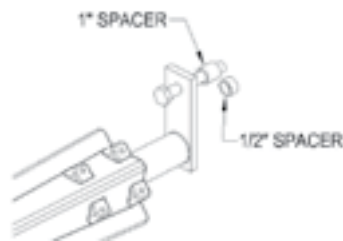


Figure 6

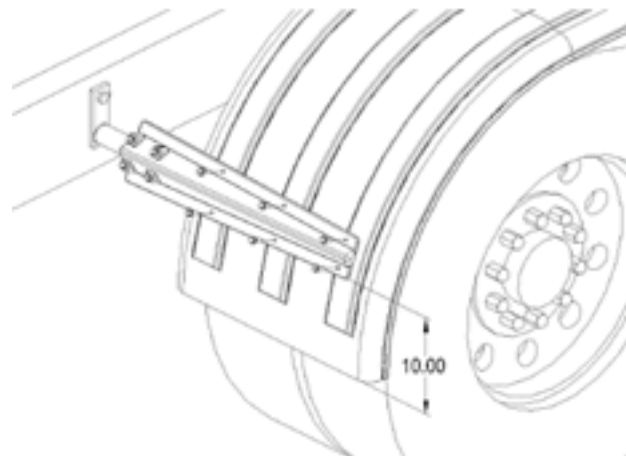


Figure 7

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**Minimizer**

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## STEP 5

- A. Loosely clamp the bracket (part number PB501026A) and the backing block to the swivel (part number PB5015). Do not tighten down the bolts. Allow the bracket to rotate on the swivel during installation. See figure 8.

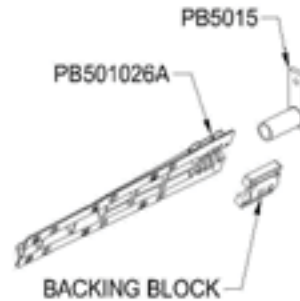


Figure 8

## STEP 6

- A. Once the brackets are placed in position with the fender, securely tighten down the 5/8" x 4-1/2" bolts that go through the PB5015 steel swivel attaching the swivel to the frame. See Figure 9.

**TIP: HAND TIGHTEN WITH A WRENCH, THE BACKING BLOCK TO BRACKET PB501026A. DO NOT USE POWER TOOLS AS OVER-TORQUING WILL CAUSE CRACKS IN THE BRACKET.**

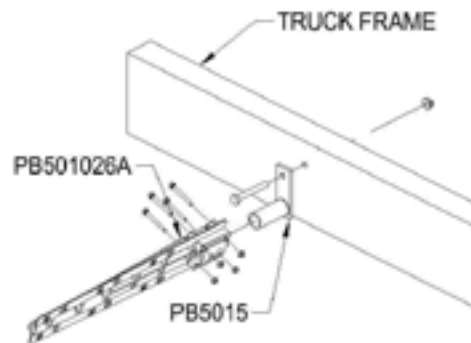


Figure 9

## STEP 7

- A. Drill six 5/16" holes thru fender using the holes in bracket PB501026A as a guide. Install the 5/16" x 1" bolts thru the bracket and into the fender. Use six 5/16" body washers and 5/16" nuts provided with kit on the inside of fender. Do not over tighten bolts as it may crack the bracket. Hand tightening of bolts is suggested. Make sure the fenders are square and aligned. Twists or bows in the fender will fatigue the material over time. See figure 10.

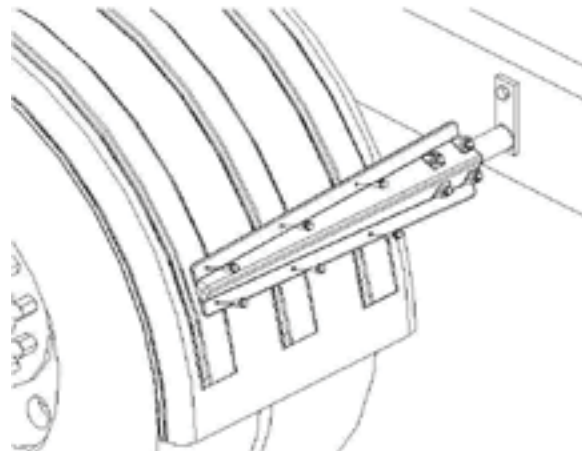


Figure 10

## STEP 8

- A. When the fender is level and positioned properly, tighten all bolts and nuts securely.

**NOTE: OCCASIONALLY CHECK THE 5/8" X 4-1/2" HEX BOLT ON THE FRAME TO MAKE SURE THEY DO NOT LOOSEN OVER TIME.**

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