



B600WOA

Fender Mounting Instructions for MINTA1554, MINTA910, MINTF1554 & MINTF900 Fenders

STEP 1

- A. Unpack all cartons and lay out parts.
- B. Compare the parts with hardware kit B600WOA as shown in Figure 1.

PART NUMBER	DESCRIPTION	QTY
PB5010	STEEL WELD-ON TAPERED BRACKET	4
I31C100BSF/RBZ	5/16-18 X 1 HEX WASHER HEAD BL	24
I31CNCF/RBZ	5/16-18 CLASS G FLANGE LOCK	24
I31N150WFEZ	5/16 X 1 1/2 FENDER WASHER	24
PB5067	STEEL ANGLE FOR PB5069	4
I62C250BFL8/RBZ	5/8-11 X 2 1/2 HEX FLG BOLT BZ	4
I62CNCG/RBZ	5/8-11 CLASS G FLANGE LOCK N	4
PB1/2"SPACER	1/2" POLY SPACER	4
PB5069	COMPOSITE CENTER BRACKET	4
I31C125BSF/RBZ	5/16-18 X 11/4 HEX WASH HEAD B	16
I31CNCF/RBZ	5/16-18 CLASS F FLANGE LOCK	16
PB5071	COMPOSITE ANGLE FOR PB5069	4
I31C125BSF/RBZ	5/16-18 X 11/4 HEX WASH HEAD B	28
I31CNCF/RBZ	5/16-18 CLASS F FLANGE LOCK	28
I31C100BSF/RBZ	5/16-18 X 1 HEX WASHER HEAD BL	16
I31CNCF/RBZ	5/16-18 CLASS F FLANGE LOCK	16
I31N150WFEZ	5/16 X 1 1/2 FENDER WASHER	32



Figure 1

STEP 2

- A. Lay the fenders out and clamp them together depending if the fender style is MINTA (Figure 2) or MINTF (Figure 3). This will make bolting them together much easier.



MINTA
Figure 2



MINTF
Figure 3

- B. Bolt the fenders together. A pack of 5/16 x 1" bolts, 5/16" nuts and 5/16" x 1- 1/2" fender washers is included in the kit. **Use four bolts per joint and torque bolts to 10-15 ft-lbs.**

STEP 3

- A. In some cases TF44 or TA53 will need to be cut down to accommodate a shorter amount of tire coverage.
- B. To install the end cap, cut the end of the center section off and clamp PMTF44EC to the unfinished end of the fender (Figure 4)
- PMTF44EC can be used with either TF44 or TA53.
- C. Drill five 1/4" holes through the fender using the holes in PMTF44EC as a guide.
- D. Use five 1/4" x 3/4" bolts and lock nuts to connect the fenders.

- This is a hardware kit (PM10PK) that is sold separately from the bracket kit.**

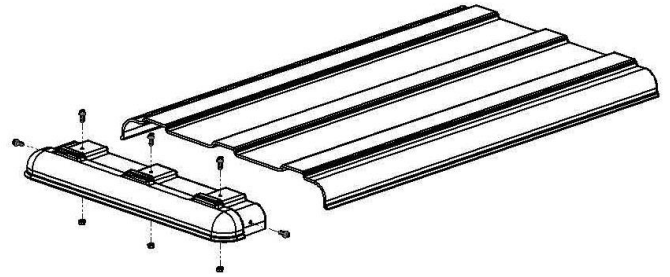


Figure 4

STEP 4

- A. Measure the suspension travel. 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 the fenders & tires. This will help with alignment and 5th wheel plate clearance. *(Please call Minimizer @ 800-248-3855 for questions regarding this issue).*

- B. Gap the fenders 3/4" over the maximum travel point of the suspension system. The goal is to make sure the fender does not rub on the tire. A gap larger than 3/4" may be necessary if using worn tires.

TIP: Establish the 3/4" minimum gap required in Step 4B.

a. For an air suspension system, place a $\frac{3}{4}$ " board on top of the tires after the air has been let out of the airbags (Figure 5). Place the fender on top of the board.

b. For a spring suspension system, add $\frac{3}{4}$ " to the measurement from Step 4A.

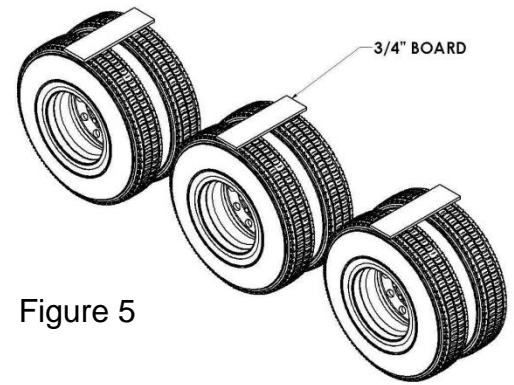


Figure 5

STEP 5

A. Position the fenders exactly where they will be mounted.

a. Visually pick and mark the locations that the brackets will attach to the frame.

B. It is possible to bolt a plate (not supplied) to the frame and weld the brackets to that plate (Figure 6). Another option is to weld the bracket directly to the frame.

a. Plate should be a minimum of $\frac{1}{4}$ " thick steel.

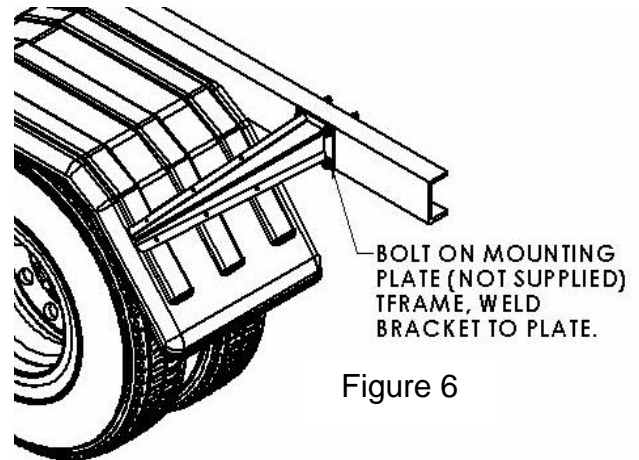


Figure 6

Tip: Check owner's manual before welding directly to the frame. Most manufacturers do not suggest welding anything directly to the frame.

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 7 shows a truck with flaps and fenders.

NOTE: Do not drill into the weld or any other part of the light box. If a mud flap is mounted to the light box style fender and the mud flap is backed over, it may cause the interior welded plate to become loose. Slot the mud flaps to prevent this issue. This is NOT covered under warranty.



Figure 7

C. Install center bracket assembly (Figure 8).

a. Try to use existing holes in the frame to bolt through. It is possible to remove any existing frame bolt and replace it with the supplied bolt in the bracket kit. **Recommended torque for the $\frac{5}{8}$ " x $2\frac{1}{2}$ " bolt is 110-115 ft-lbs.**

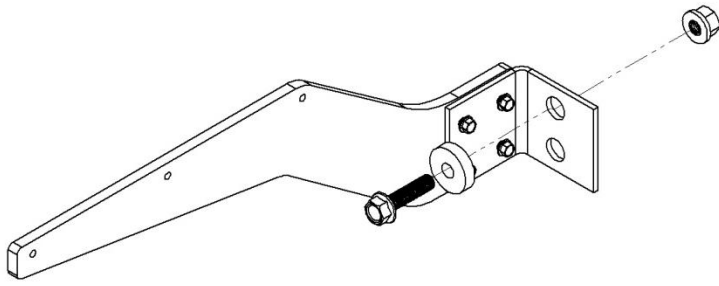


Figure 8

See IMPORTANT assembly instructions for center bracket PB5069 & PB5067, last page of this form.

D. Install center bracket as close to where the fenders join together as possible (Figure 9).

- a. Drill three 5/16" holes through the fender using the holes in bracket PB5069 as a guide.
- b. Use three 5/16" x 1 1/4" bolts to bolt the center bracket and fender together.
- c. Use 5/16" fender washers and 5/16" nuts provided with the kit on the inside of the fender. Recommended torque is 10-15 ft-lbs.

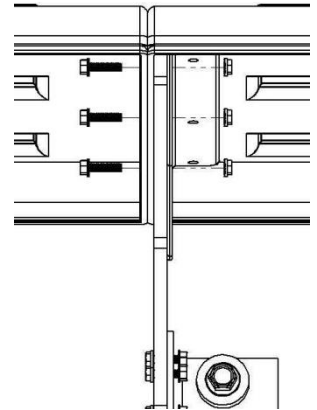


Figure 9

E. Some installations may not allow the center bracket to bolt through the ends of the fenders.

- a. In these cases use the plastic angle (PB5071) to connect the fender to the center bracket assembly (Figure 10).
- b. Use three 5/16" x 1" bolts, washers, and nuts to bolt PB5071 to the center bracket assembly. Do not tighten these until the fender is level. Recommended torque is 10-15 ft-lbs.

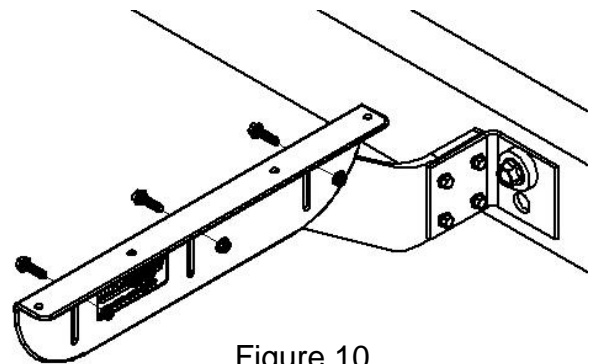


Figure 10

Tip: PB5071 is also used as a height adjustment for the end of the fender.

F. Drill four 5/16" holes through the fender using the holes in bracket PB5071 as a guide (Figure 11).

- a. Install the 5/16" x 1 1/4" bolts through the bracket and into the fender.
- b. Use 5/16" body washers and 5/16" nuts provided with the kit on the underside of the fender.

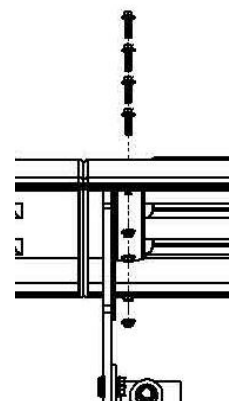


Figure 11

If possible, position the mounting brackets so they are located within 15" of the bottom of the fender. This guards against wind blowing the leading edge of the fender back into the tire (Figure 12).

Tip: If the front fender bracket is mounted higher than 15", refer to <http://www.minimizer.com/instructions.html> for further suggestions on adding additional support.

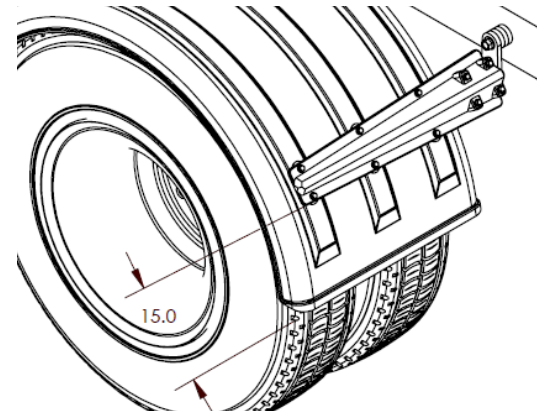


Figure 12

TIP: If using the optional PBTF44EC, make sure to mount PB501026 far enough from the end so it doesn't interfere with the Phillips truss head bolts used for PBTF44EC (Figure 13).

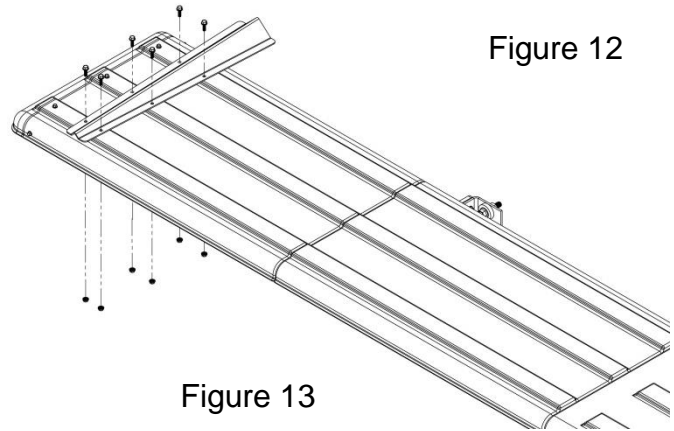


Figure 13

STEP 6

A. Attach the bracket (PB5010) to the fender.

- a. Drill six 5/16" holes through the fender using the holes in bracket PB5010 as a guide.
- b. Install the 5/16" x 1" bolts through the bracket and into the fender.
- c. Use six 5/16" fender washers and 5/16" nuts provided with the kit on the underside of the fender.
- d. **Tighten the bolts. Recommended torque is 10-15 ft-lbs.**
- e. Make sure the fenders are square and aligned (Figure 14). Twists or bows in the fender will fatigue the material over time.

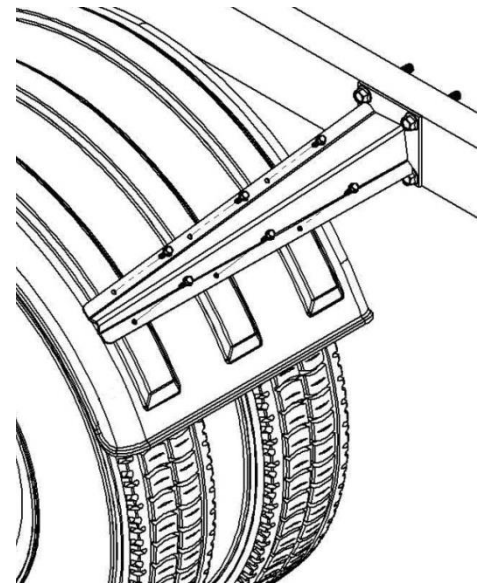


Figure 14

STEP 7

A. For trucks with air suspension, raise and lower the suspension one final time to confirm that there is adequate clearance between the fenders and wheels.

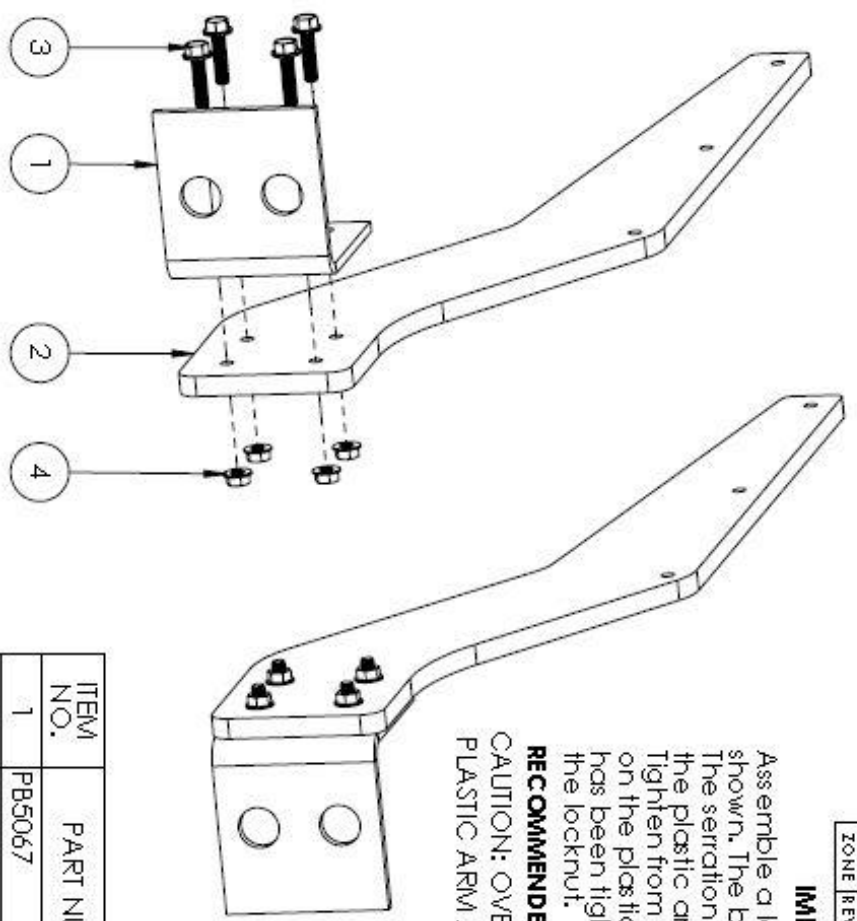
ZONE REV		DESCRIPTION	DATE	APPROVED
REVISIONS				

IMPORTANT INFORMATION

Assemble a left hand and right hand arm assembly as shown. The bolt head (MUST) be on the metal plate side. The serration on the bottom of the bolt head will damage the plastic arm. Use the nut on the plastic arm side. Tighten from the bolt head side so the nut does not spin on the plastic arm. If the locknut is ever loosened after it has been tightened it is highly recommended to replace the locknut.

RECOMMENDED TORQUE FOR ALL 5/16 HARDWARE IS 10-15 FT-LBS

CAUTION: OVERTIGHTENING THE HARDWARE WILL DAMAGE THE PLASTIC ARM AND COULD CAUSE IT TO FAIL



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PB5067	BRKT,5067STL,CNTR,ANGL	2
2	PB5069	BRKT,5069,PE,CNTR,.5	2
3	I31C125BSF/RBZ	HDWR,HCS,RBZ,SERR,5/16-18X1.2	8
4	I31ONCF/RBZ	HDWR,NUT,RBZ,FLNG-LOCK,5/16-18	8

DESIGN BY: BAG	DATE: 3/22/2016	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONS DECIMALS 1/16 1/32 1/64 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10	DATE: A	PART NO. B5068A-B5070A	REV:
DESIGN BY: 	DATE: 	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONS DECIMALS 1/16 1/32 1/64 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10	SCALE: 1:1	WEIGHT: NA	SHEET 1 OF 1
DESIGN BY: 	DATE: 	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONS DECIMALS 1/16 1/32 1/64 1/8 1/4 3/8 1/2 5/8 3/4 7/8 1 1 1/8 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 3 3 1/2 4 4 1/2 5 5 1/2 6 6 1/2 7 7 1/2 8 8 1/2 9 9 1/2 10			

SPRAY CONTROL SYSTEMS INC.

BLOOMING PRAIRIE, MN 55917

DESCRIPTION: PLSTC,CNTR,BRKT,ASSY,INSRT

INDICATE PROJECTIONS