



**FULL METAL FENDERS™**

Thank you for buying our Full Metal Fenders™. We designed these beauties to be safe, functional, and darn good looking. We developed special hardware to make the fenders fit a wide variety of road bikes with 700x23 tires (and in some cases 700x25 tires), but since most road bikes are not designed with full fenders in mind, it will take some time and patience to get them set up juuuust right. If time and patience are two things you are a bit short on, have your local bike shop do the installation. They've installed a lot of fenders and usually have a trick or two up their sleeves for making fenders work with uncooperative frame designs.

Are video instructions more your thing?

Check out **[ridepdw.com/help/products](https://ridepdw.com/help/products)**.

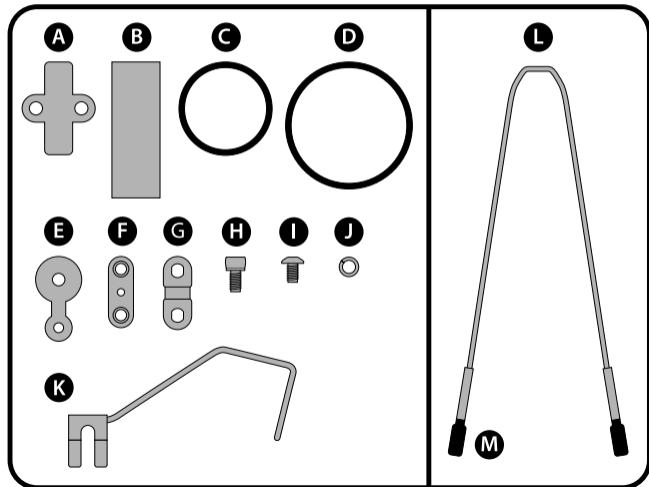
Have fun. Stay dry.

## Warnings

- *Before riding, check to make sure your toes do not hit the front fender when turning the wheel from side to side. If your toe hits the fender, we do not recommend using fenders.*
- *Check hardware before each ride to make sure everything is properly installed and secure.*
- *Portland Design Works is not liable for injury or damage resulting from improper use or improper installation.*
- *Not for off-road use.*

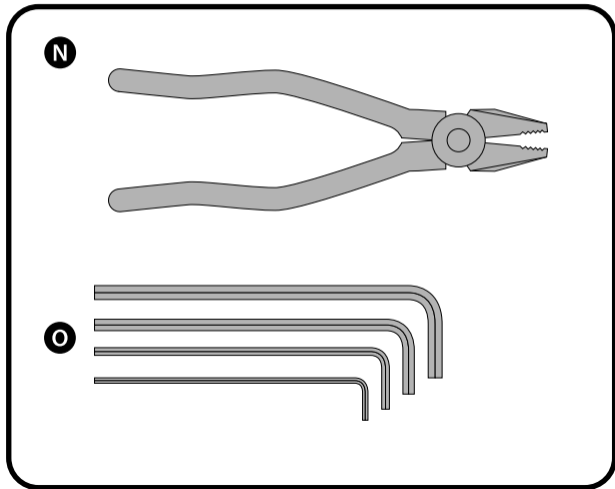


# Parts



- A) Anti-rattle sticker (x2)
- B) Anti-rattle sticker (x1)
- C) Small O-ring (x1)
- D) Large O-ring (x1)
- E) Eyelet (x4)
- F) Bottom stay Bracket (x2)
- G) Top stay bracket (x2)
- H) 4mm bolt (x4)
- I) 3mm bolt (x4)
- J) Washer (x4)
- K) Z bracket (x1)
- L) Stay (x2)
- M) Safety tab (x4)  
(pre-installed)

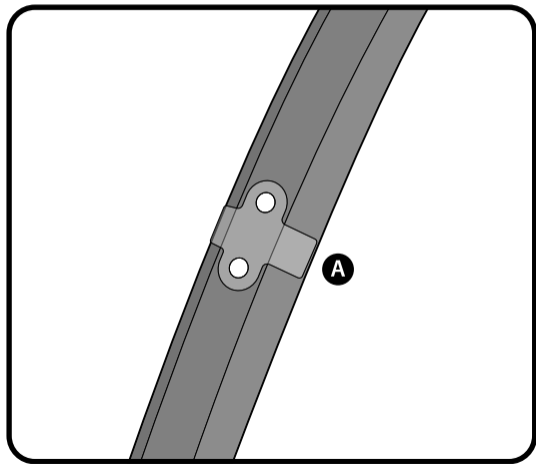
## Tools (not included)



N) Pliers

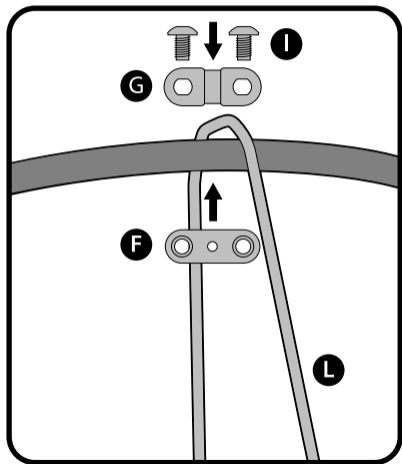
O) 2, 3, 4, 5mm Allen/hex wrenches

## Step 1



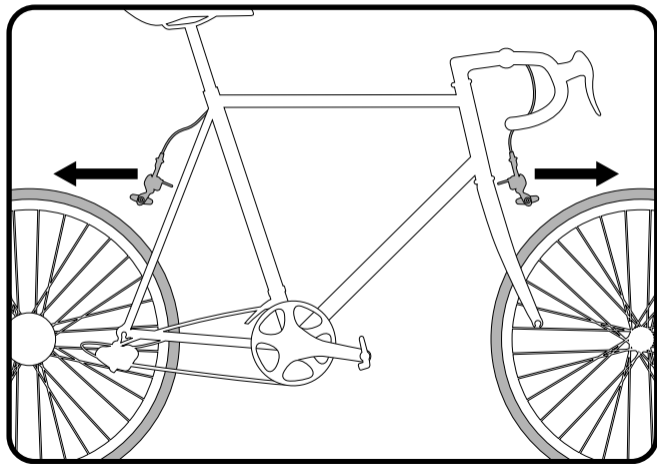
Apply anti-rattle stickers (A) to front and rear fenders. Make sure fender surface is clean before applying.

## Step 2



Attach fender stays (L) to front and rear fenders using 3mm bolts (I) and stay brackets (F, G). Make sure the flat side of the bottom stay brackets (F) are flat against the underside of the fenders. With stays perpendicular to the fenders, tighten bolts with a 3mm Allen/hex wrench (P).

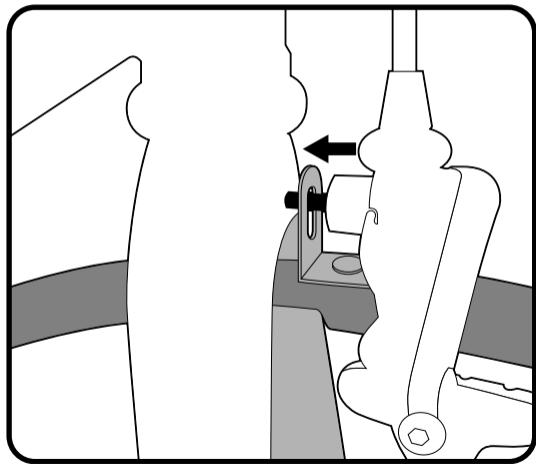
## Step 3



Remove wheels and  
brakes from bike.

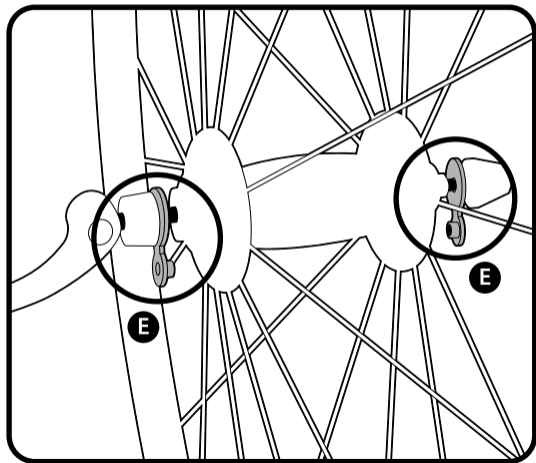


## Step 4



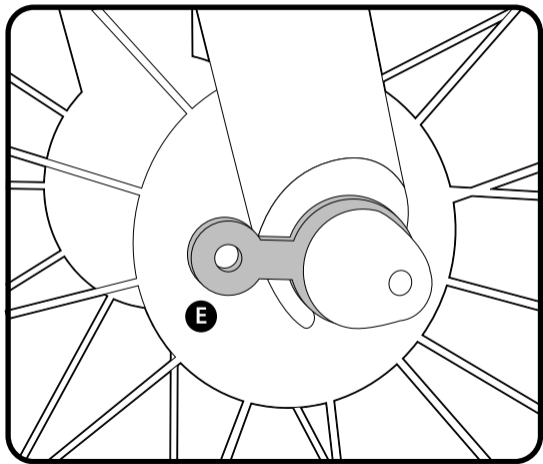
Reinstall front brake with the front fender bracket between the brake and the fork. Do not fully tighten brake bolt yet.

## Step 5



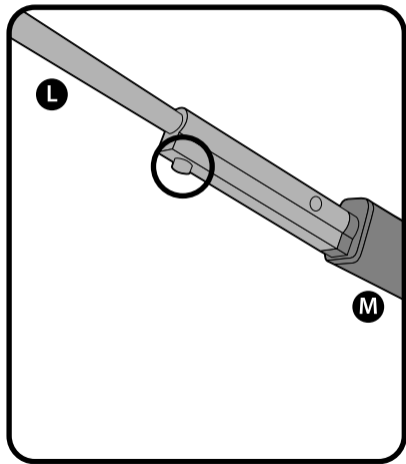
If the bike does not have threaded eyelets to bolt fender stays to, remove the wheel skewer and install an eyelet (E) on each side of the wheel.

## Step 6



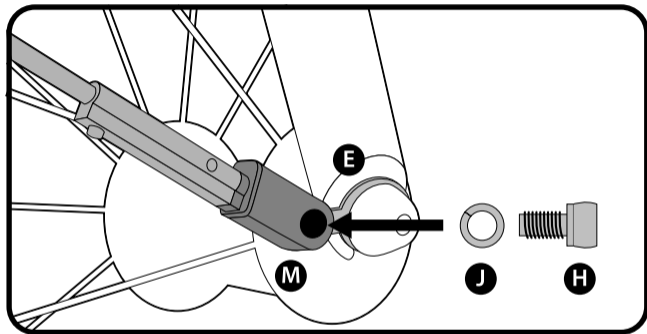
Reinstall the wheel, with the eyelets (E) as close to the 9 o'clock position as possible. Make sure wheel is all the way in before tightening the skewer.

## Step 7



With a 2mm Allen/hex wrench (P), loosen the 2mm bolts on the safety tabs (M) so they can slide up and down the stays (L)

## Step 8



With a 4mm Allen/hex wrench, attach the safety tabs (M) to the eyelets (E) with 4mm bolts (H) and washers (J). Hold the safety tabs (M) as you tighten the bolts (H) to prevent them from rotating. Make sure the bolts are secure but do not crank them down with **all** of your might or you could break the hardware.

## Step 9

Position fender so it is centered and a safe distance away from the tire (at least 5mm). Tighten the 2mm bolts of safety tabs (M).

## Step 10

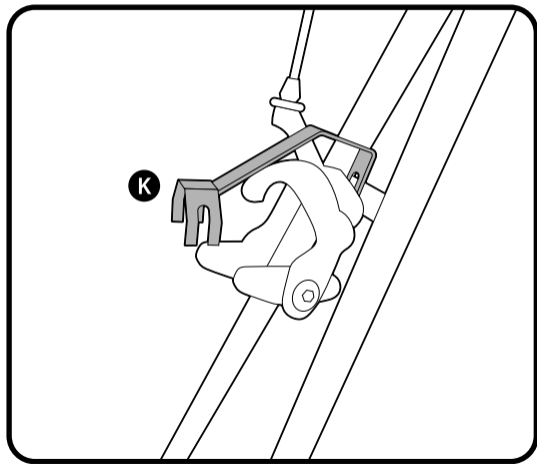
Center the brake on the wheel and position the fender as far away from the tire as possible. Tighten brake bolt.

## Step 11

Spin wheel to check for rubbing and adjust as necessary. Double check that all hardware and brakes are tight. Congratulate yourself. Take a breather and continue to step 12.

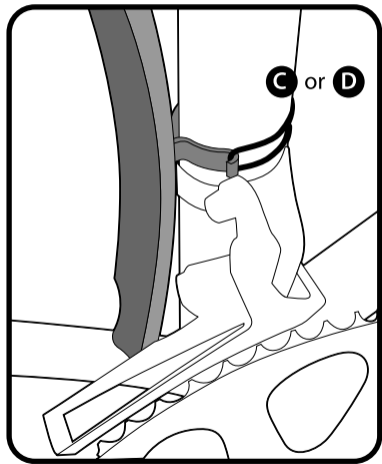


## Step 12



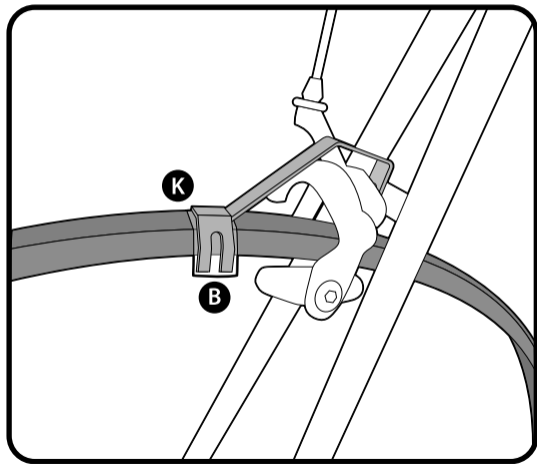
Attach rear brake with the Z bracket (K) between the brake and bike frame. Do not fully tighten brake yet.

## Step 13



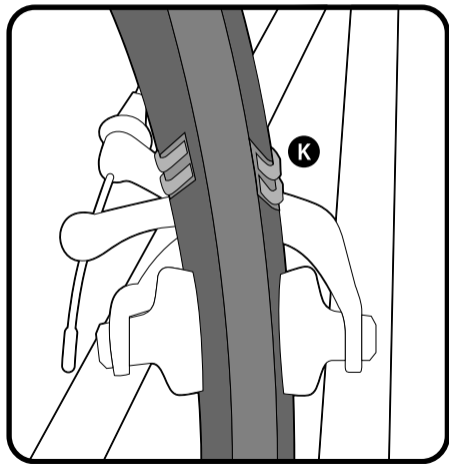
Attach plastic bracket on rear fender to the seat tube, just above the front derailleur. Use the o-ring (C, D) that fits best on your frame.

## Step 14



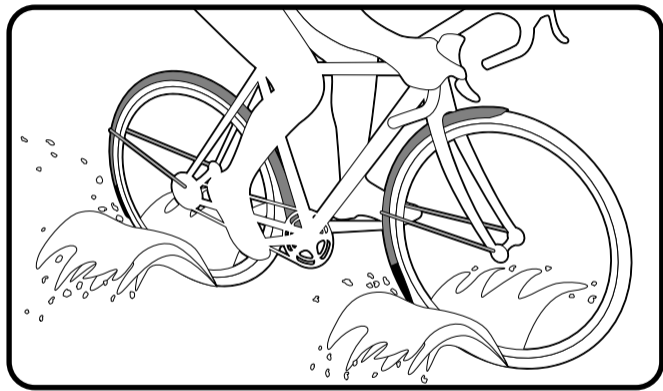
With a pencil, mark where the Z bracket (K) hits the rear fender. Attach anti-rattle sticker (B) to this area.

## Step 15



Crimp Z bracket (K) tabs under rear fender with pliers (N). Make sure all four tabs are crimped flat against underside of the fender.

## Step 16



Repeat steps five to eleven above, except in step 11 replace "Take a breather and continue to step 12," with "Ride your bike through the nearest puddle."

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