

# MADSTAD

ENGINEERING

## Adjustable Windshield System For Harley “Bat Wing” Fairings

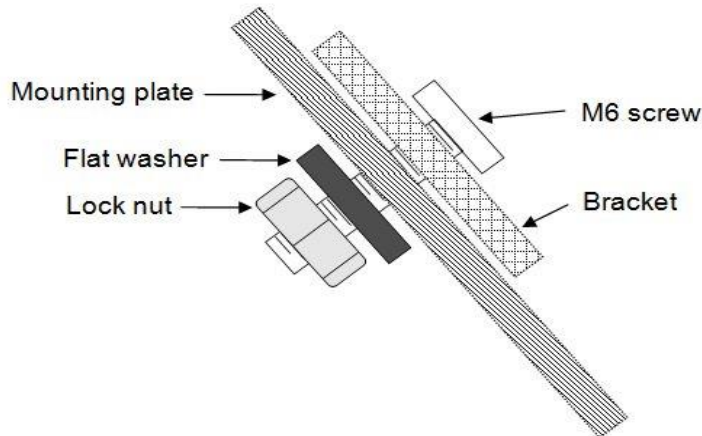
*Please read this entire manual before proceeding with installation.*

### What Is In The Box:

- (1) Aluminum base plate
- (1) Set of Pre-Assembled MadStad Adjustable Windshield Brackets
- (1) Instruction Sheet (this document)
- (1) Windshield (optional)
- (1) Hardware Packet with:
  - (4) Truss Screws
  - (4) rubber washers
  - (4) black plastic washers
  - (4) M6 x 12mm button socket screws
  - (4) M6 flat washers
  - (4) M6 nylock nuts

### STEP 1: ATTACHING THE BRACKETS TO THE BASE PLATE

Unwrap the pair of adjustable brackets and from the hardware packet get the (4) M6 x 12mm button socket screws, the flat washers and the nylock nuts. Install as shown in the image on Page 1 (well nuts facing outward) and using the hardware as shown in the diagram at right. Use a 4mm Allen along with a 10mm socket, crescent or adjustable wrench.



## STEP 2: SET THE BASE PLATE INTO YOUR FAIRING

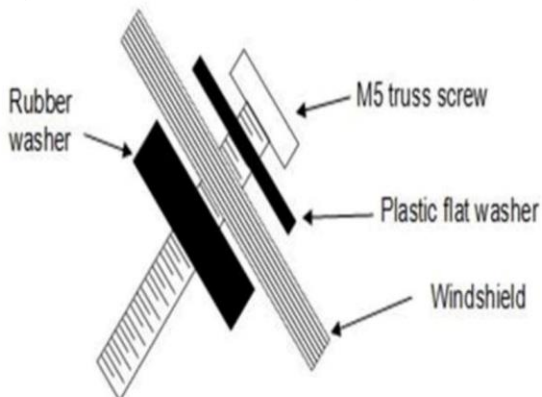
Remove your current windshield. The MadStad base plate slides into the fairing in place of the plastic shield and attaches using the same screws.

## STEP 3:

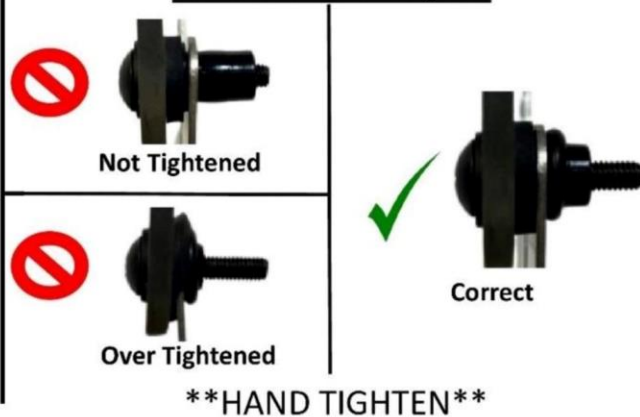
# Windshield Installation

1. Pre-install the Truss screws & washers into the windshield holes as shown in the image below.
2. Once all four of the screws are in place, gently guide the screws into the Well Nuts in the brackets until all four are set.
3. Hand tighten the Truss screws until they swell up behind the bracket and are firmly holding the windshield.

### Windshield Layout:



### Well Nut Tips:



## **Adjusting the Brackets**

The knob screws release the brackets allowing the windshield to slide and tilt. These knob screws must always be tightened securely before riding. **DO NOT** attempt to adjust the brackets while riding! You must come to a complete stop before making adjustments. Also make sure that you do not set the windshield in such a way that causes your handlebars or hand guards (if installed) to hit the windshield when turning, or before reaching full lock.

To make adjustments, loosen the knobs 1-2 turns and set the windshield so the top edge is at about your chin level as you look straight ahead while seated on the bike. Set the angle at approximately 60 degrees. (Use the angle guide on the back page of this manual as a guide.) Tighten the knobs and go for a ride to see if you now have smooth airflow over and around your helmet. Do this on a calm day if at all possible; windy days make it hard to judge the airflow. Don't ever try to adjust the mount while in motion!

To try a different windshield position, bring the motorcycle to a complete stop and out of traffic. Loosen the two knob screws and tilt the windshield forward or back 2-3 degrees or so, and/or adjust it up or down if necessary. Re-tighten the knobs and go for another ride.

Continue experimenting with different positions at different speeds until you find a combination of height and rake angle that eliminates buffeting and gives a smoother ride. You may have more than one favorite position, for example shield tilted forward on cooler days, and shield tilted back for hot days to let more air to your body.

## **Disclaimer**

Neither MadStad Engineering nor its owners shall be liable for any damages, consequential or inconsequential, resulting from the use of our products. Installation of any of our products constitutes acceptance of these terms.

It is the responsibility of the user to make sure all fasteners are tightened securely, the windshield is mounted properly and the adjustment knobs are tightened snugly before putting the motorcycle in motion. MadStad systems **ARE NOT** to be adjusted while the vehicle is in motion; you must pull over out of the way of traffic and come to a complete stop before making any changes. The user must never place the windshield in such a position as to interfere with the safe and complete movement of the handlebars and controls.

## **Returns and Warranty**

MadStad adjustable brackets carry a lifetime warranty against manufacturing defects. This does not include cosmetic issues nor any parts that inherently wear out or degrade over time such as rubber and plastic parts. Windshields, deflectors, and other similar plastic parts are warrantied for 1 year against manufacturing defects, not against cosmetic issues or issues related to normal wear and tear. Please visit our website for further details.

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*Thank you for your support, and ride safely!*

