



## Adjustable Windshield System

KTM 890/790/390 Adventure / R

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

### What is in the box:

- (1) MadStad adjustable brackets
- (2) M5 x 30 pan Phillips screws
- (2) M5 lock washers
- (2) M5 metal flat washers
  
- (1) Windshield
- (4) M5 truss Phillips screws
- (4) M5 flat plastic washers
- (4) soft rubber washers



### **Tools Needed:**

- #2 Phillips screwdriver

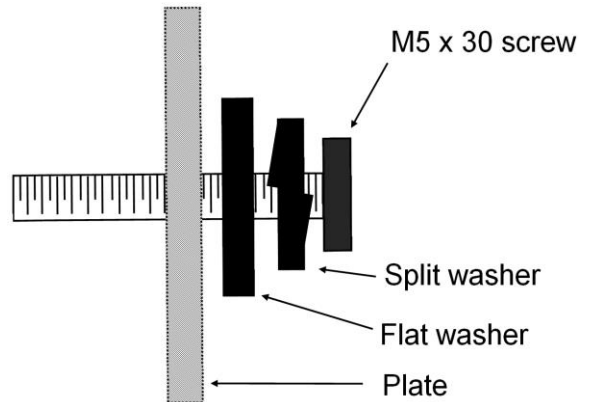
The MadStad adjustable windshield brackets are designed to bolt to the factory windshield mounting points. The MadStad windshield then attaches to the front of the adjustable brackets. You will NOT be able to use your stock windshield, it is not compatible with the MadStad system.

## STEP 1

Remove the factory windshield by removing the single screw in the middle.

## STEP 2

Set up the two M5 x 30 screws with split washers and metal flat washers as shown at right. These screws are going to thread into the two recessed holes that are used for the factory shield as seen below.



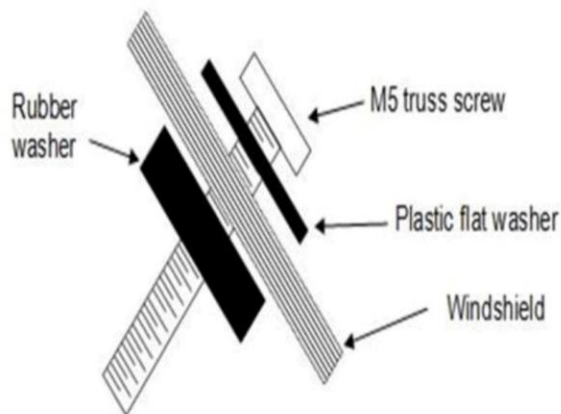
The MadStad bracket assembly gets placed onto the factory shield mount with the two short screws that are poking out of the back of the plate placed into the two semi-circular recesses as seen at left. This will orient the two mounting screw holes directly over the factory threaded holes. Insert the top screw first and tighten down, then insert and tighten the bottom screw. The final result should look like the image below.



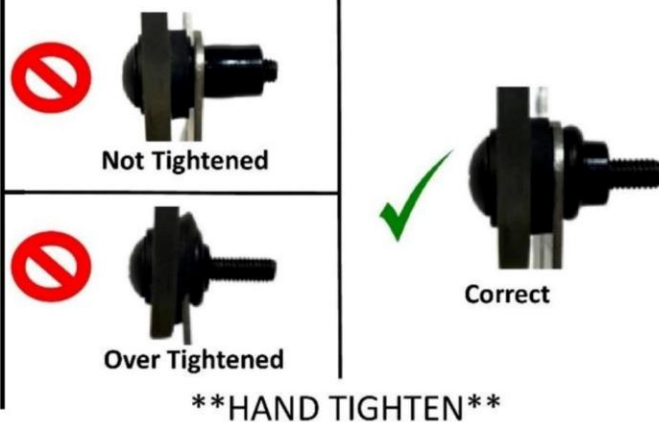
# Windshield Installation

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 turn for height and set the windshield so the top edge is at about your chin level as you look straight ahead while seated on the bike. Loosen the knobs 3-4 turns to set the angle at approximately 60 degrees. (Use the angle guide on the back page of this manual as a guide.) **NOTE:** The knobs have a small conical shoulder that seats into the scallops inside the angle adjustment slot. When you tighten the knobs, you may have to wiggle them slightly to make sure the knob fully seats into the bracket slot.

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 warranted 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.

## **NOTES:**

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

