MADSTAD
ENGINEERING

Adjustable Windshield System

KTM 790 Adventure / R

Please read this entire manual before proceeding with installation.

<u>What is in the box</u>:

(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) 3/8L rubber washers
(4) soft rubber washers

Tools Needed:

- #2 Phillips screwdriver

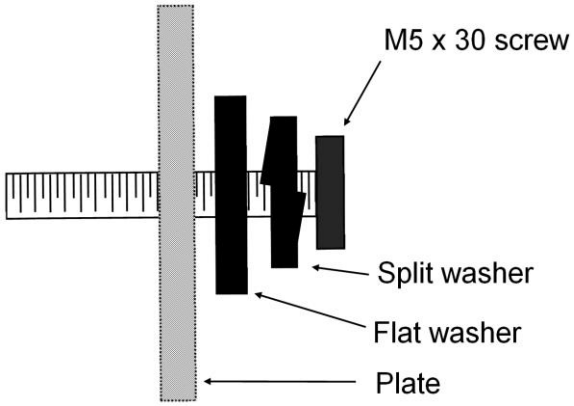
The MadStad adjustable windshield brackets are designed to bolt to the factory windshield mounting points. The MadStad windshield then attaches to the front of the adjustable brackets. You will NOT be able to use your stock windshield, it is not compatible with the MadStad system.

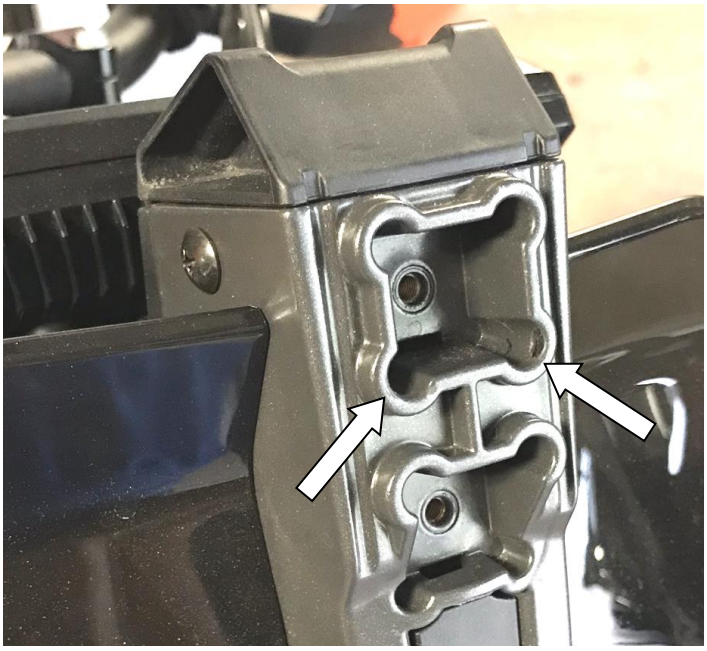
STEP 1

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.



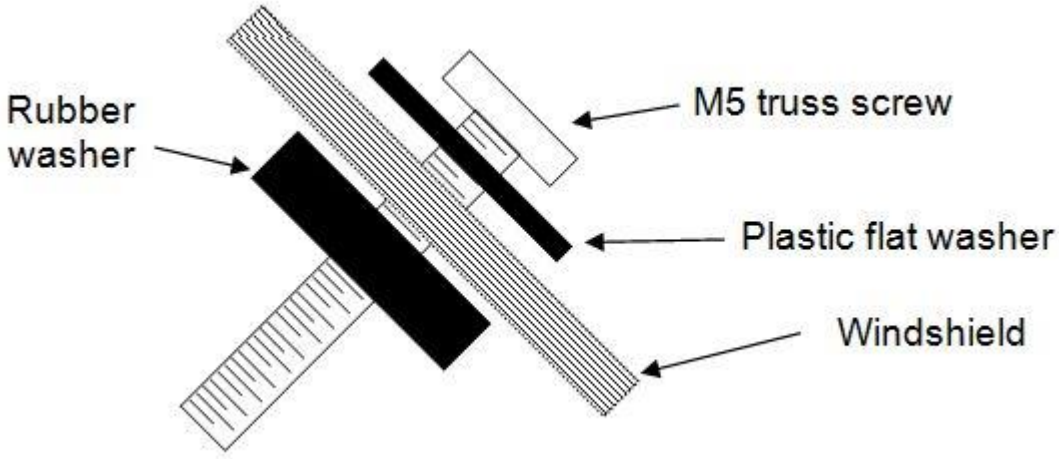


The MadStad bracket assembly gets placed onto the factory shield mount with the two short screws that are poking out of the back of the plate placed into the two semi-circular recesses as seen at left. This will orient the two mounting screw holes directly over the factory threaded holes. Insert the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

Windshield Installation

The windshield attaches to the front of the brackets with T-screws and rubber washers as shown at right. Make sure the adjustable front brackets are both set at the same height and angle. You can loosen the adjustment knobs a turn or two if needed to set them up evenly.

Insert all four truss screws and washers into the four windshield holes as shown below before attempting to attach the windshield onto the RoboBrackets. We recommend that you first install the upper and lower screws on one side, then install the upper and lower screws on the other side. The rubber well nuts are flexible and shield holes are oversized so you can nudge the shield around to align the T-screws with the holes properly.



<u>DO NOT OVERTIGHTEN THE SCREWS!</u> The rubber well nuts cannot be pulled up out of the brackets, even if they are not tight, so tighten only until the well nuts begin to swell up and the shield is snug against the brackets. Over tightening can damage the rubber well nuts.

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 1turn 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

If you are not satisfied with your new windshield system you have 30 days to return it. Full details are available on our web site at www.madstad.com. If purchased from a dealer then please contact the dealer for their return policy.

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.

NOTES:

NOTES:

MadStad Engineering, Inc.

1451 East Jefferson Street
Brooksville, Florida 34601
Phone: 352-848-3649
Web Site: http://www.madstad.com
Email: support@madstad.com

Thank you for your support, and ride safely!