

# MADSTAD

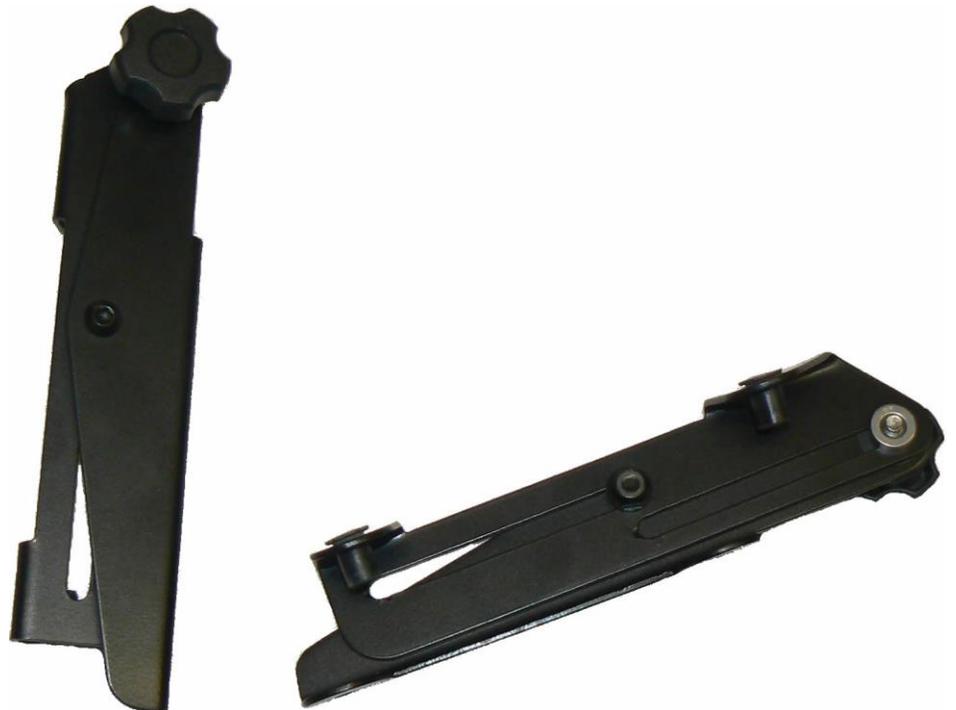
## Adjustable Windshield System

### Triumph Tiger Explorer

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

#### What is in the box:

- (1) Set of preassembled MadStad brackets
- (1) Aluminum mounting plate
- (4) M6 x 12mm screws
- (4) M6 flat washers
- (4) M6 lock nuts
- (4) M5 T-Screws
- (12) 1/8" thick rubber washers
- (4) M5 nylon flat washers



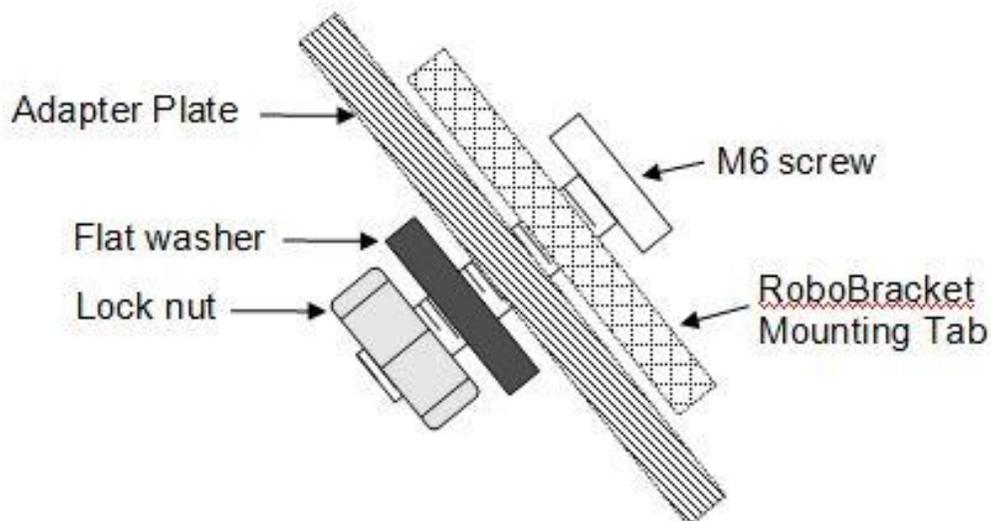
MadStad brackets are designed to bolt to a curved surface like the metal adapter plate included in this kit. The new windshield attaches to the top of the brackets with quick-removal T-screws. Loosening the two adjustment knobs on our brackets allows you to change the windshield height without getting off of the bike.

## Factory Windshield Removal

You will need to remove your factory windshield; it is not adaptable for use with these brackets.

## Bracket Installation

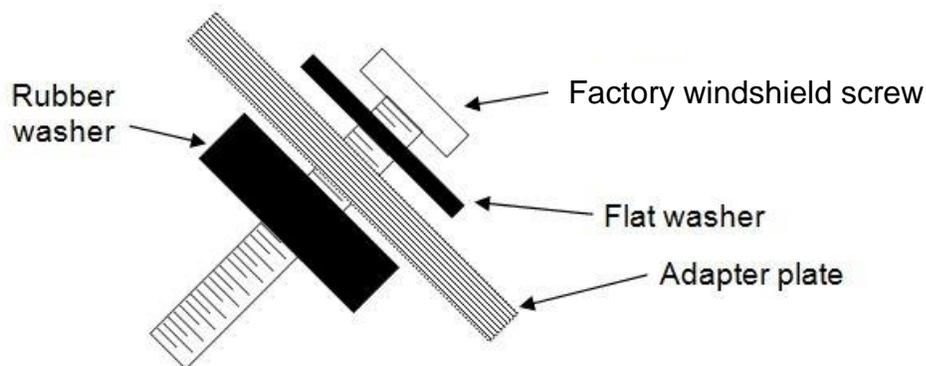
Your Robo Knob brackets attach to the MadStad adapter plate as shown on page 3. Use the four M6 x 12 screws with washers and lock nuts as shown in the diagram below.



The knobs on the brackets go to the insides (facing each other) with the knob sides up. When both brackets are installed it should look like the diagram below:

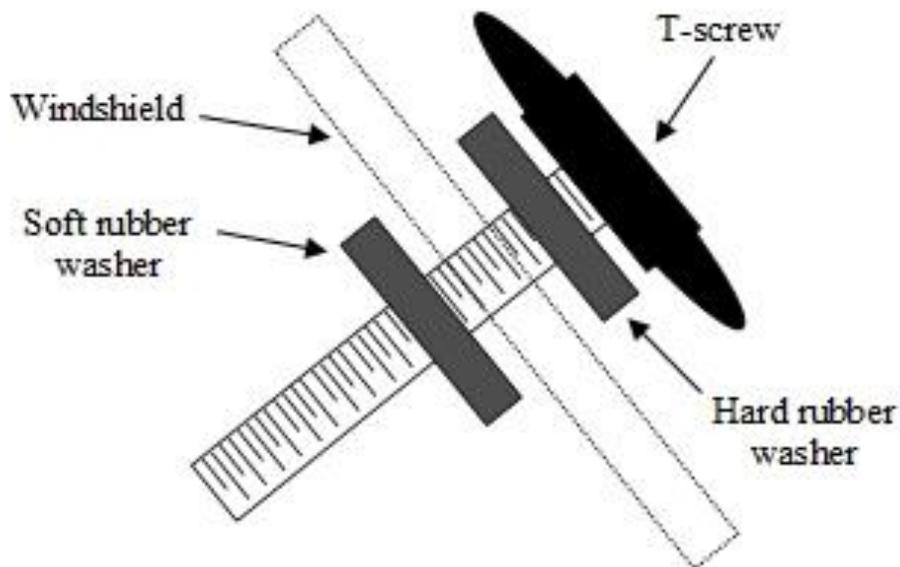


The adapter (mounting) plate then attaches to the windshield mount in place of the stock shield. You will use the factory M5 windshield screws with the plastic flat washers and rubber cushion spacers (thick rubber washers) provided. Slide the flat black plastic washers onto each of the windshield screws, slide them through the adapter plate and attach the rubber washers to each screw on the back side of the adapter plate. (See diagram below.) Then screw the adapter plate into the rubber well nuts where the stock shield was previously installed.



## Windshield Installation

Once bracket adjustment is complete, the windshield attaches to the brackets with T-screws and rubber washers as shown at right. Insert all four T-screws and washers into the four windshield holes as shown at right 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.



**DO NOT OVERTIGHTEN THE T-SCREWS!** 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 RoboKnob Slider Brackets**

The knob screws release the brackets allowing the windshield to slide up and down only. 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. To change the windshield height, 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. Then tighten the knobs until they are snug.

Tilt (angle) adjustment is accomplished using the factory knobs on the sides of the bike. Loosen those and set the angle at approximately 60 degrees. (Use the angle guide on the back page of this manual as a guide.) The factory tilt slots have ridges in them so you can't adjust the angle infinitely, however you should be able to get close to 60 degrees, and that's good enough for your first test ride.

Tighten the side knobs then 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 MadStad knobs or the two factory angle-adjustment knobs and change your setting. (HINT: Don't change both height and angle at the same time because if your airflow gets worse, you won't know which adjustment caused it.) 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.

## Notes on Windshield Angle

Most windshields work best when set at a 55-60 degree angle. We have provided an angle guide **on the back page of this manual** so that you can check and see if your shield is set somewhere in this range.

To check your shield angle, your bike should be in an upright position on level ground, either on a center stand or held up by a helper. Set the spine (folded edge) of the manual against the front of the shield. If the large arrow marked 60° is pointing straight up, then your shield is at a 60 degree angle. (See diagram on Page 5.) A little farther back and your angle would somewhere between 55 and 60 degrees. Anywhere in this range is fine for your initial test ride. On some bikes a more vertical angle works better, so don't be afraid to experiment and try different settings.

## **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 intended 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](http://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.

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

