

Adjustable Windshield Mount

KTM 990 SMT

Please read this entire manual before proceeding with installation.

What is in the box:

- (1) 990 SMT Brackets Kit
- (1) 990 SMT Cross Brace
- (2) 990 SMT Rear Braces
- (4) M6 x 12 screws
- (2) M6 x 16 screws
- (2) M6 x 20 screws
- (4) M6 nylock nuts
- (6) M6 flat washers
- (2) M6 split lock washers
- (4) M5 x 12 Phillips screws
- (4) M5 split lock washers
- (1) 4mm Allen wrench
- (4) M5 x 25 truss screws
- (4) M5 black plastic washers
- (4) soft rubber washers

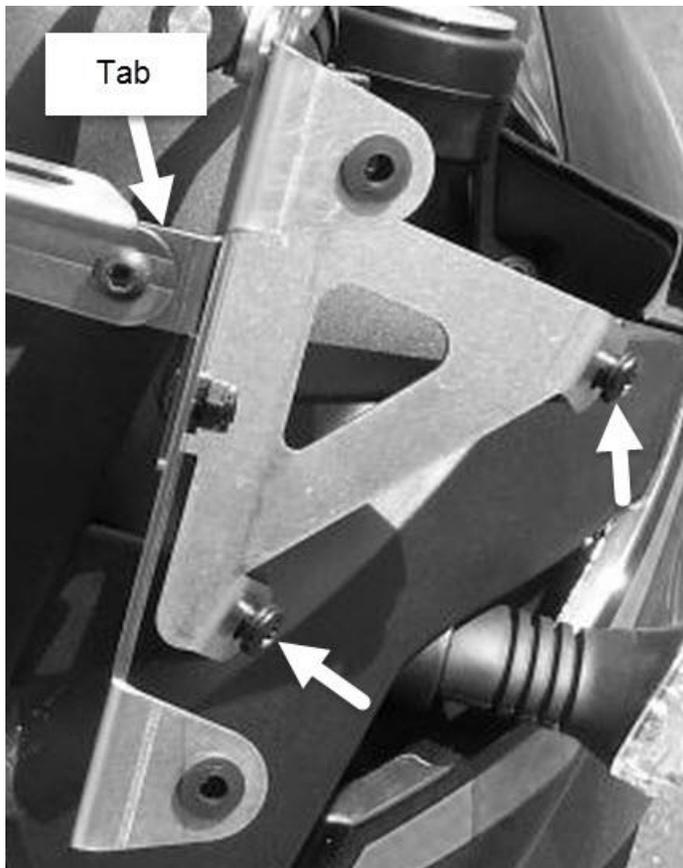


These MadStad adjustable brackets are designed to bolt to the factory windshield holes. The MadStad windshield then attaches to the front of the brackets with quick-removal T-screws. Loosening two adjustment knobs on the brackets allows you to change the windshield height and tilt without getting off of the bike, and without any tools, and without needing to use the factory height adjusters.

You will NOT be able to use your stock windshield with these brackets.

INSTALLATION OVERVIEW

The MadStad brackets attach to the stock windshield mounting holes and have two braces that drop down to the lower bodywork. Before you begin installation, remove the stock shield and screws. You will not need them for this installation

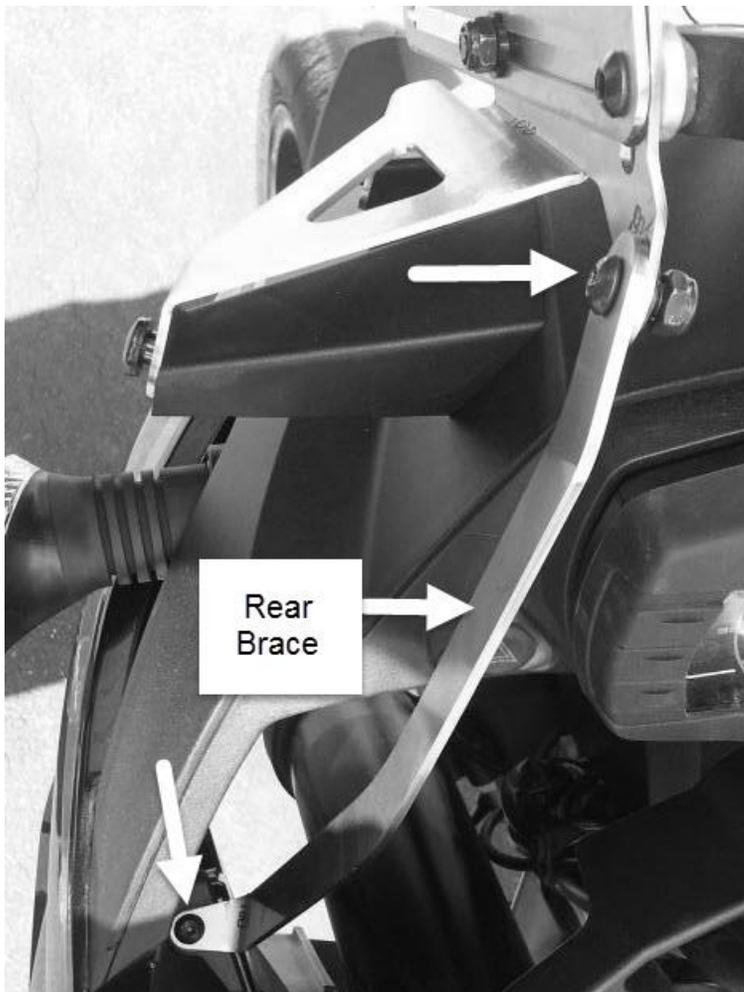


BRACKETS – Attach the MadStad brackets to the factory windshield mounting points. (see arrows in diagram at left). Use the M5 Phillips screws and lock washers and flat washers that came with the kit. The adjustment knobs and a tab on each bracket should be facing in toward the center of the bike.

CROSSBAR - Attach the crossbar to connect the two tabs on the brackets. The MadStad “M” logo should be facing forward with the slotted side down toward the bike (see image below). Use the M6 x 12mm screws through the crossbar, then the tabs, then put a flat washer and M6 lock nut on the back side of each screw and tighten.



REAR BRACES – There are two long braces that go from the rear tab on the MadStad brackets down inside the fairing to factory mounting points which are to the left and right of the forks. If you look down where your forks are you will see two screws that run straight down through the fairing (see photo at right). Remove the screw that is toward the front of the bike (as shown by the arrow). Leave the round spacer/washer behind, our brace will bolt right over it.



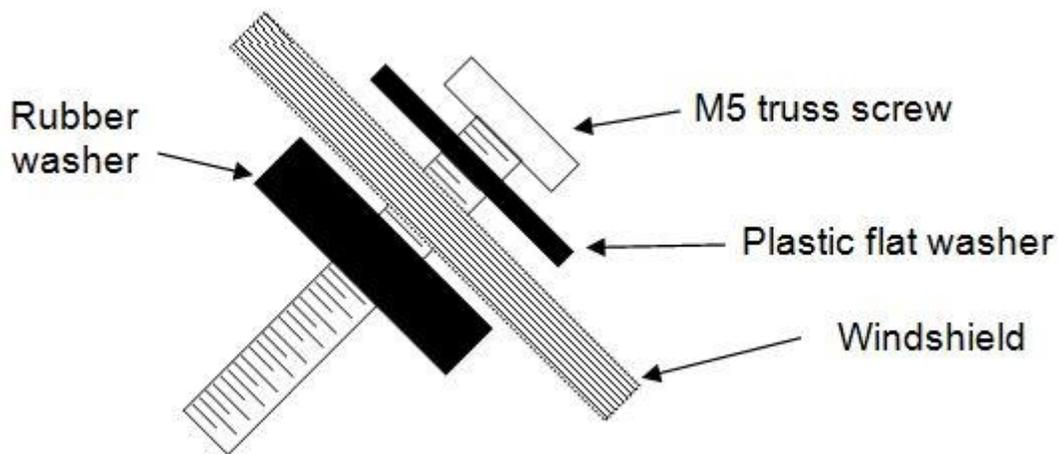
Attach each brace to the rearward tab on the MadStad bracket using an M6 x 12 screw, flat washer and lock nut as you did the cross brace (see photo at left). The bottom of the brace attaches to that inside mounting point down by the forks. Use an M6 x 16mm or M6 x 20mm screw with a lock washer on it and run those through the bottom hole of the brace. Do not overtighten; you just need to snug it down and we don't want to damage the factory mounting point.

Windshield Installation

Once bracket adjustment is complete, the windshield attaches to the front of the brackets with Phillips truss screws and rubber washers as shown below. Make sure the adjustable front brackets are both set at the same height and angle before you try to attach the windshield. You can loosen the adjustment knobs a turn or two if needed to set them up evenly.

Prepare the shield first by inserting a truss screw with plastic washers into a windshield hole, then slide a rubber washer onto the back (as shown below). Repeat this for all four screws before attempting to attach the windshield to the MadStad brackets.

Lay the shield over the brackets and insert the protruding screws into the rubber well nuts on the brackets. It's probably easiest to do two holes on one side (left or right) then do the other two. The rubber well nuts are flexible and shield holes are oversized so you can nudge the shield around to align the screws with the holes properly. Once they are in, tighten them all up until they are just snug with roughly 1/8" to 1/4" of screw sticking out behind each well nut.



DO NOT OVERTIGHTEN THE T-SCREWS! The rubber well nuts cannot be pulled up out of the brackets, even if they are loose, so tighten only until the well nuts begin to swell up and the shield is snug against the brackets. Overtightening can damage the rubber well nuts.

Adjusting the MadStad 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. (You may have to wiggle them a little to release our special insert from the scalloped slot.) This will release the bracket so they are free to move up and down, and back and forth. 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.

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 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 be 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 later if tilting the shield back doesn't seem to be ideal.

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. 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.

MadStad Engineering, Inc.

1451 E. Jefferson St.
Brooksville, FL 34601 U.S.A.

Phone: 352-848-3646

Fax: 352-240-3911

Web Site: <http://www.madstad.com>

Email: support@madstad.com

Thank you for your support, and ride safely!

