

Adjustable Windshield System

Yamaha Tracer 900

Please read this entire manual before proceeding with installation.

What is in the box:

- (1) Base plate
- (1) Adjustable brackets set
- (4) M6 x 12 button socket screws
- (4) M6 metal flat washers
- (4) M6 nylock nuts

- (3) Black plastic 3/4" tall spacers
- (3) M6 x 35 button socket screws
- (3) 1/4" split lock washers
- (3) Small o-rings



- (2) Side deflectors
- (4) M6 x 16 button socket screws
- (4) M6 plastic flat washers
- (4) M6 nylock nuts



- (4) M5 Truss screws
- (4) M5 plastic flat washers
- (4) soft rubber washers

STEP 1: Remove the factory shield

Unscrew the four factory windshield screws and remove the windshield. You will not need the shield nor the screws.

STEP 2: Remove the factory mounting assembly

The sliding Yamaha windshield assembly is held on by three screws. To remove the first one make sure the assembly is slid all the way down, and the center screw will become accessible through the hole as shown at right. Use an M4 Allen wrench (hex key) to take the screw out.

Grab the factory adjustment lever and slide this assembly upward so you can see the lower two mounting screws. Remove them and take the entire assembly off of the bike. You will not need the screws or the assembly but put them somewhere safe so you have the stock parts if you should need them.



STEP 3: Attach the MadStad brackets to the base plate

Run the M6 x 12 mounting screws through the adjustable brackets then through the base plate and fasten on the back side with flat washers and nylock nuts. The bracket adjustment knobs should face each other as seen in this photo at right.



STEP 4: Attach the three base plate mounting screws with spacers

The base plate mounting screws and spacers go through the three holes by the bottom of the base plate, indicated by three small arrows in the image at right. Run the long M6 x 35 screws through a lock washer then through the front of the base plate (pictured at right), then put a tall plastic spacer on the back side as shown below.



We've provided small o-rings which you can slip over the screw ends to keep the spacers from falling off when you install the base plate. These o-rings will flatten when installed.



Once all three mounting screws with spacers are in the base plate, set the plate against the front of the bike and screw the bottom two in first (using an M4 Allen wrench), then the center screw. Tighten all three down snugly.

STEP 5: Side deflector installation.

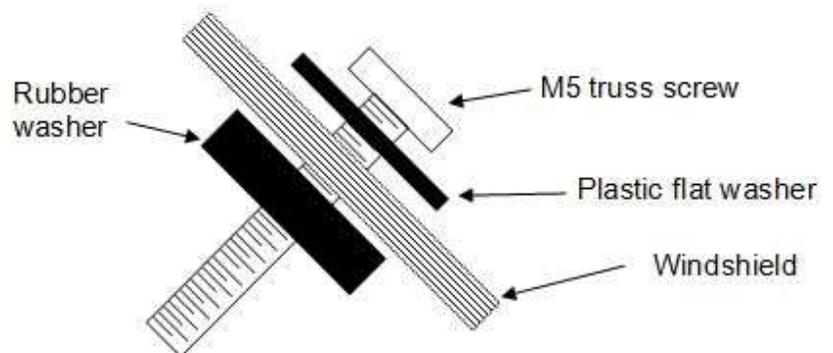
The two acrylic side deflectors attach to the side flaps on the base plate as seen below. Mount them in front of the flaps, not behind. Use the M6 x 16 screws with flat washers and nylock nuts on the back side.



STEP 6: Windshield Installation

The windshield attaches to the front of the brackets with the Phillips truss screws provided. Prepare the shield first by inserting a truss screw with plastic flat washer into a windshield hole, then slide the other rubber washer onto the back (as shown below). Repeat this for all four screws before attempting to attach the windshield. Then lay the shield over the brackets and insert the four screws into the four rubber well nuts on the MadStad brackets. The well nuts are flexible and shield holes are oversized so you can nudge the shield around to align the screws with the holes properly.

Do Not Overtighten The Shield Screws! The well nuts cannot be pulled up out of the brackets once they start to swell up, and over-tightening can permanently damage them.



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 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.

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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.

PIVOT SCREWS

The MadStad mount has a pivot screw on each set of brackets, located near the center of the bottom bracket. A nylon lock nut keeps the screw snugly in place, yet allows the brackets to slide back and forth. It is adjusted at the factory to have a minimum of play yet still allow the brackets to move.

If for some reason you wish to adjust the tightness of this pivot screw or move it to an alternate pivot position, use a 4mm Allen wrench along with a 10mm socket or crescent wrench to make the adjustment. If you tighten the lock nut completely you will not be able to slide the brackets.

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.

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Thank you for your support, and ride safely!

