

# MADSTAD

ENGINEERING

## Adjustable Windshield System

Yamaha FZ-07

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

What is in the box:

### Quick-Release Base Kit:

- (2) Base brackets
- (4) Knobs with washers
- (1) Brace
- (2) M6 x 20 screws
- (2) M6 spacers
- (4) M6 x 12 screws
- (4) M6 washers
- (4) M6 nylock nuts

**BRACKETS**



**BRACE**

**The Base Kit is required** for either the other two bracket options below. You may have purchased only one of these so the other may not be in your order:

### Adjustable Brackets Kit:

- (2) adjustable bracket assemblies
- (1) 7/8" Aluminum crossbar
- (2) M6 x 16 screws
- (2) M6 lock washers
- (2) M6 flat washers
- (4) M5 Phillips truss screws
- (4) M5 plastic flat washers
- (4) soft rubber washers

**ADJUSTABLE  
BRACKETS  
KIT**



## Flyscreen Kit (Optional):

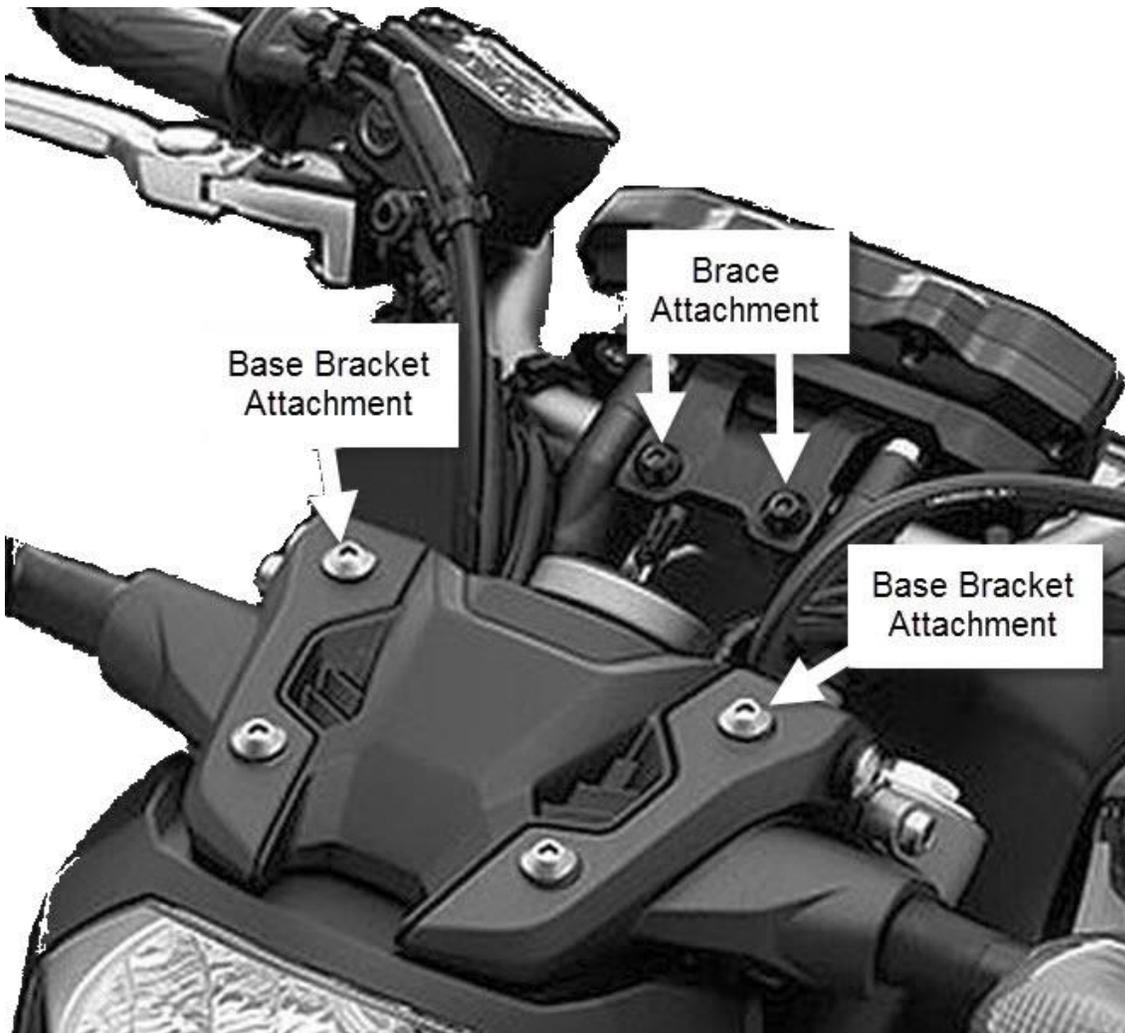
- (2) fly screen brackets (with well nuts)
- (1) Fly Screen
- (4) M5 Phillips screws
- (4) M5 plastic flat washers
- (4) soft rubber washers



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## BASE KIT INSTALLATION

Everything attaches to the Quick-Release Base so let's get that installed first. It has a **4-point attachment** which are the top two screws on the front of the bike above the headlight, and the two screws that hold the instrument cluster on. This is shown in the image below.



The mounting base consists of three parts: (2) bases with knobs, and (1) support brace. The brace attaches to the same two mounting points that hold your instrument cluster on, but you will not be using the same screws. Please remove them but save them somewhere with your other motorcycle stuff so they don't get lost.

**STEP 1:** We have provided a pair of M6 x 20mm button-head screws and two 1/4" spacers for attaching the rear brace. Put one of these screws through one of the two central mounting holes in the brace, slide the spacer on to the back side of the brace, then put the screw through the instrument cluster bracket and screw it back in, but don't fully tighten. The spacer is designed to set the MadStad brace out a bit so it doesn't press on the handlebar clamp. Attach the other screw and spacer the same way, then finish tightening both screws. The instrument panel should now be bolted back on as before, but with the MadStad brace sticking out in front of it.

**STEP 2:** Attach the two base brackets to the front of the bike using the silver factory screws. The knobs must face each other and there will be an extension on each bracket with two holes in it (not shown in this photo). That extension meets up with the brace that you installed in Step 1. Bolt each bracket extension to the support brace through those two holes using the short button-head screws with washers and lock nuts. **(image shows base bracket with fully installed system)**



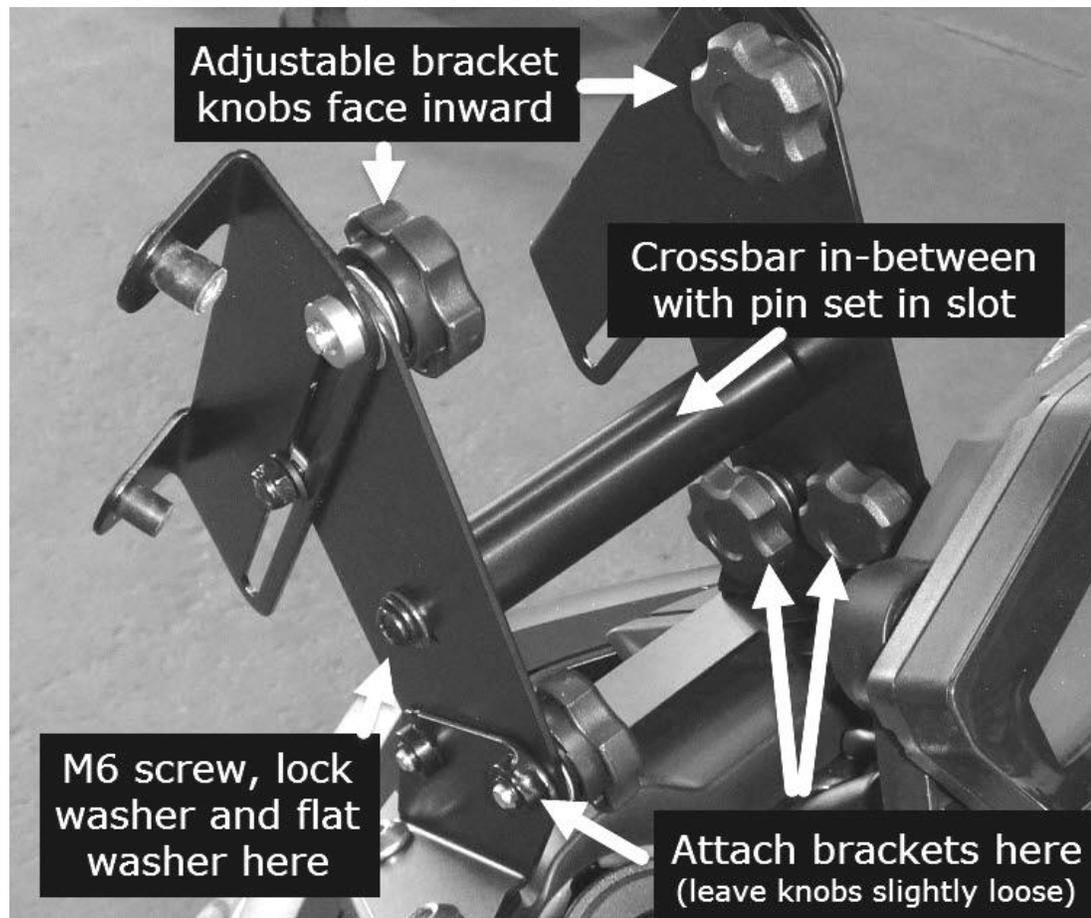
Make sure all screws on the base are tightened before continuing.

## ADJUSTABLE BRACKETS INSTALLATION

The adjustable brackets are connected with a crossbar. It's probably easiest to slide the two brackets into the base first and then attach the crossbar. The base will keep them in place and make this process easier.

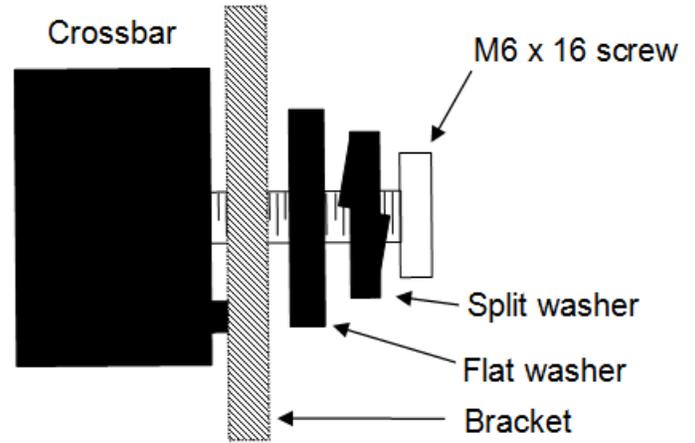
**STEP 1:** Slide the slotted bottoms of the adjustable brackets into the knob screws on the base. (The adjustable bracket knobs face inward and the rubber well nuts face forward.) **The bottom slots go in first, then gently rotate the bracket downward to insert the second slot.** You may need to loosen the four base knobs a bit to insert the slots in.

Once the bracket slots are inserted onto the base knob screws, snug them up but don't fully tighten the knobs. We want to give the upright brackets a little room to flex so we can insert the crossbar in-between.



**(Image shows FZ-09, the same base plate & Adjustable brackets are used)**

**STEP 2:** Once both adjustable brackets are in, put the crossbar between them at the crossbar hole in the center of the upright brackets. You will note that there is a hole with a slot, and that the crossbar has a pin sticking out of one end. That pin goes into one of the slots to keep it from rotating. It doesn't matter which side the pin is on, just set the crossbar at the middle screw holes with the pin in one of the slots, then insert the M6 button-head screws with a lock washer and a flat washer and tighten.



Before you install the windshield, make sure all four base knobs are fully tightened. You will be able to reach these later without removing the shield.

## **REMOVING THE ADJUSTABLE BRACKETS**

The entire adjustable brackets-and-windshield assembly can be removed as one unit quickly and easily.

**STEP 1** - If your windshield is in the full-down position, make sure it is tilted back about half-way toward the rider. This will give you access to the base knobs from under the front of the shield, and will give you clearance to rotate the assembly off of the base.

**STEP 2** – Loosen the four base knobs about 3 turns each.

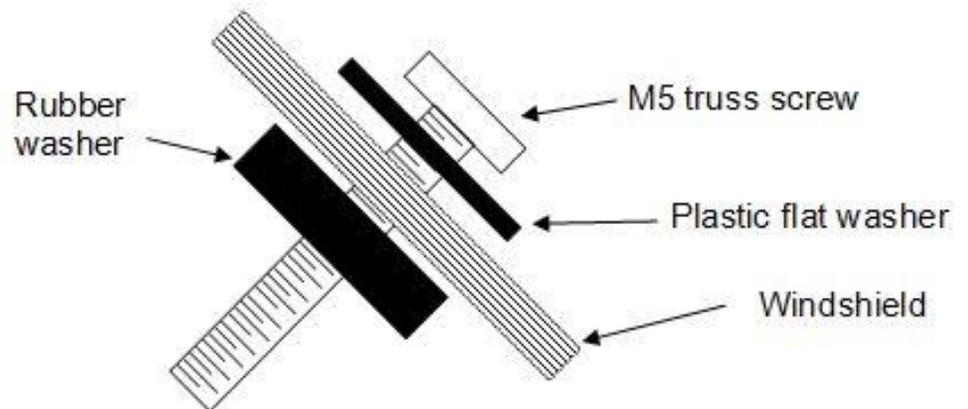
**STEP 3** - Grab the crossbar from behind the shield and rotate the entire assembly slightly forward to first clear the rear base knobs, then up to lift off of the front base knobs. If you try to just lift straight up it will not come off; it has been designed to require some forward rotation first.

See the photo on the next page for how to hold this system as you lift it forward and off the base.



## Windshield Installation

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

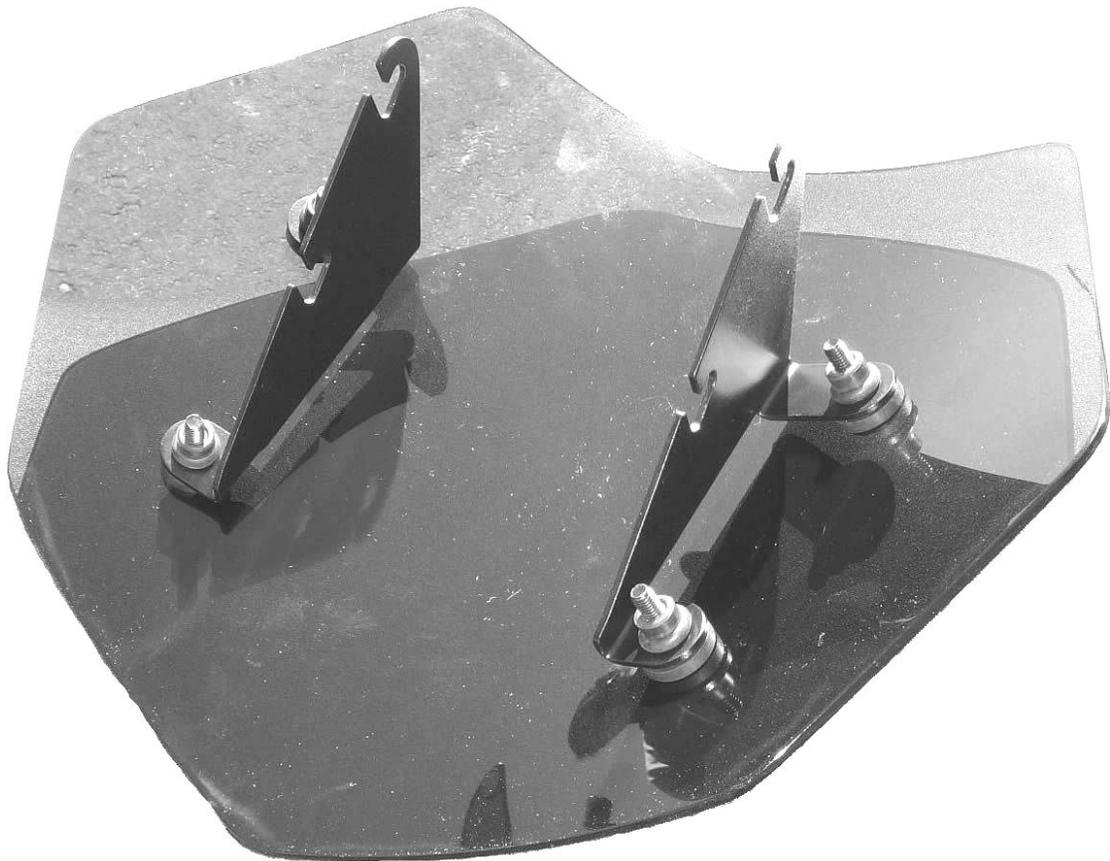
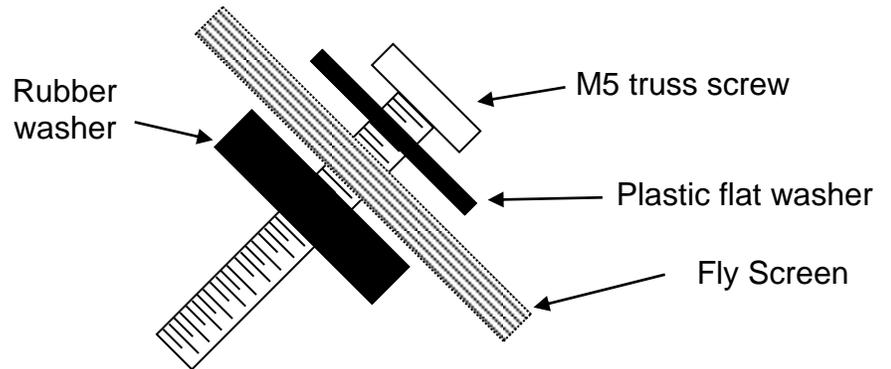


**DO NOT OVERTIGHTEN THE SCREWS!** The rubber well nuts cannot be pulled up out of the brackets so tighten only until they begin to swell up and the shield is snug. Overtightening can damage the rubber well nuts.

## FLY SCREEN INSTALLATION

The optional fly screen attaches to the quick-release base just like the adjustable brackets do, with slotted brackets that slip in under the knobs. First you will have to assemble the brackets onto the fly screen. Please refer to the hardware diagram above for hardware placement and the photo below for bracket position.

Just as with the windshield, do not over-tighten the truss screws; it isn't necessary.



Once the fly screen is assembled, it can be slipped onto the four quick-release knobs on the mounting base. Make sure you slide the fly screen down into the slots, and secure all four knob screws before driving. Please note that the fly screen IS NOT adjustable and is not intended for highway wind protection.

## Adjusting the MadStad Brackets

The knob screws on the MadStad adjustable brackets allow 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!

**WARNING:** If you tilt the shield fully backward, it may make contact with the top edge of the brackets. This could scratch the back of your shield, so please check to make sure there is no contact.

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.

## **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. **NOTE:** If you tighten the lock nut completely you will not be able to slide the brackets!

## **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 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](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.

# **NOTES**

# MadStad Engineering, Inc.

1451 E. Jefferson St.  
Brooksville, FL 34601 USA  
Phone: 352-848-3646

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

Email: [support@madstad.com](mailto:support@madstad.com)

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

