



Adjustable Windshield System

BMW F650/800GS (2008-up)

Please read this entire manual before proceeding with installation.

What is in the box:

- (1) Set of preassembled Robo Knob adjustable windshield mounts
- (1) Black aluminum adapter plate
- (4) M6 x 12 mounting screws
- (4) M6 flat washers
- (4) M6 lock nuts
- (4) M5 Phillips truss screws
- (4) M5 Plastic washers
- (4) M5 Rubber washers

Winglets:

- (2) Acrylic winglet deflectors
- (4) M5 T-screws
- (4) M5 flat washers



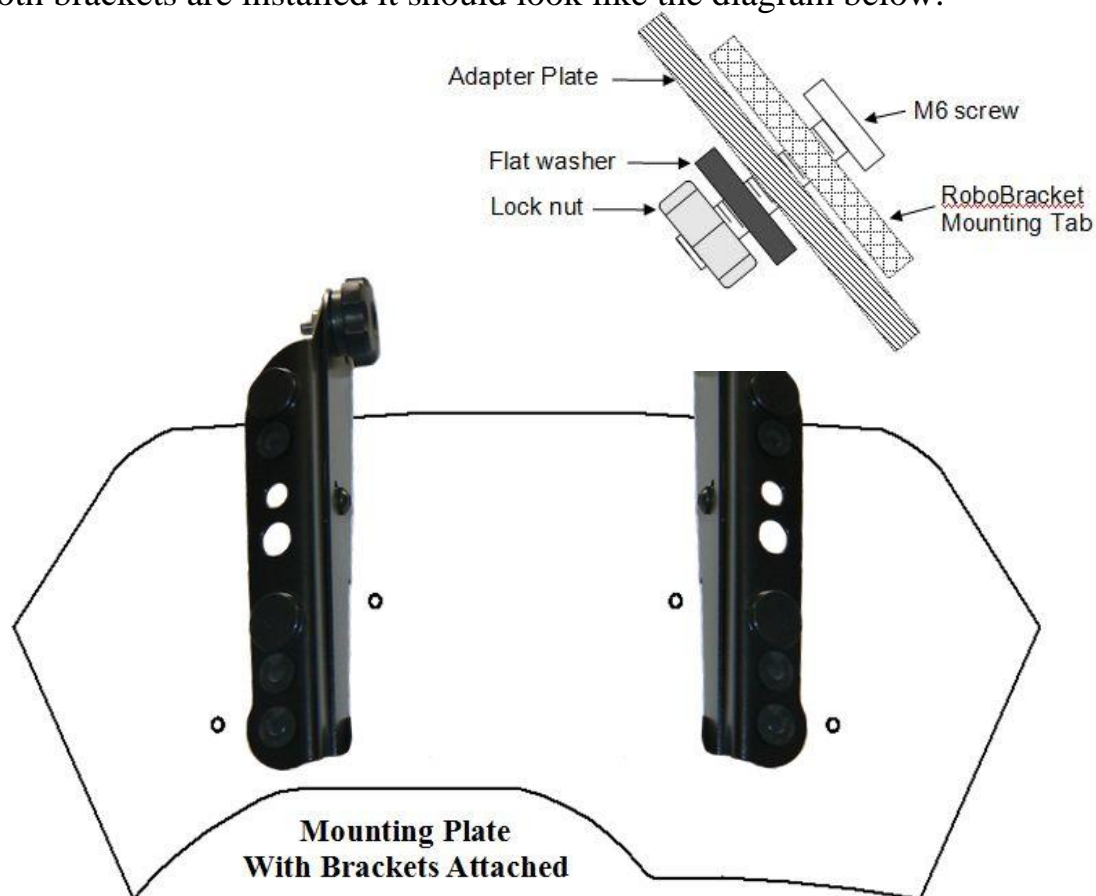
MadStad RoboKnob brackets are designed to bolt to a curved surface like the metal adapter plate included in this kit. The new windshield attaches to the top of the brackets with ***M5 Phillips truss screw, M5 flat plastic washer, windshield then M5 soft rubber washer***. Loosening the two adjustment knobs allow you to change the windshield height and tilt.

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

1) Bracket Installation:

The adjustable 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:



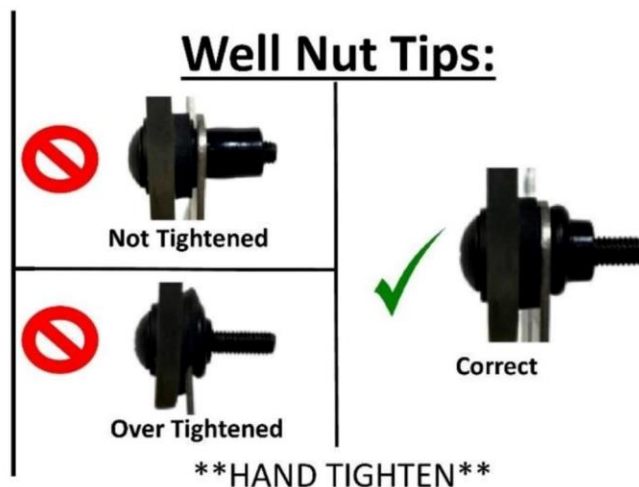
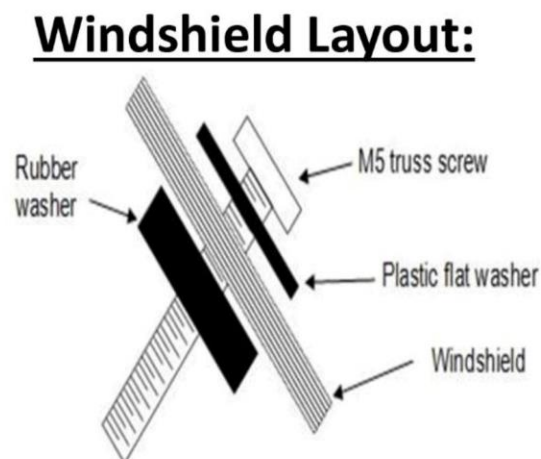
*Your specific brackets may appear slightly different, this is for orientation example.

The adapter plate then installs onto the fairing in place of the stock shield using the original factory windshield screws and washers. Start with the four front screws and screw them in, but not tightly just yet. Install the two side screws last. You may have to wiggle the adapter plate around or flex it a bit to get all the holes lined up. Then finish tightening all the screws.

NOTE: There is no need to tighten the screws down hard. You are fastening to rubber well nuts which can be damaged if you over-tighten. Just make the screws snug, and that's it.

Windshield Installation

1. Pre-install the Truss screws & washers into the windshield holes as shown in the image below.
2. Once all four of the screws are in place, gently guide the screws into the Well Nuts in the brackets until all four are set.
3. Hand tighten the Truss screws until they swell up behind the bracket and are firmly holding the windshield.



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!

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.

Winglet Installation

The side deflectors we call “winglets” are attached to the sides of the adapter plate using the T-screws and washers provided. They angle back and down behind the turn signals. The T-screws are already attached to the clear plastic winglets and the winglets attach to the outside of the adapter plate. **NOTE:** Make sure the edges of the winglets clear the bodywork of the bike so as not to rub on the finish.



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

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. Please visit our website for further details.

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Thank you for your support, and ride safely!

