

# MADSTAD

E N G I N E E R I N G

## Adjustable Windshield System

Honda Gold Wing F6B

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

### What is in the box:

- (1) Set of preassembled MadStad adjustable windshield brackets
- (1) Black acrylic mounting plate
- (4) M6 x 16 mounting screws
- (4) M6 flat washers
- (4) M6 lock nuts
- (4) M5 truss screws
- (4) M5 plastic washers
- (4) soft rubber washers



### **Tools Needed:**

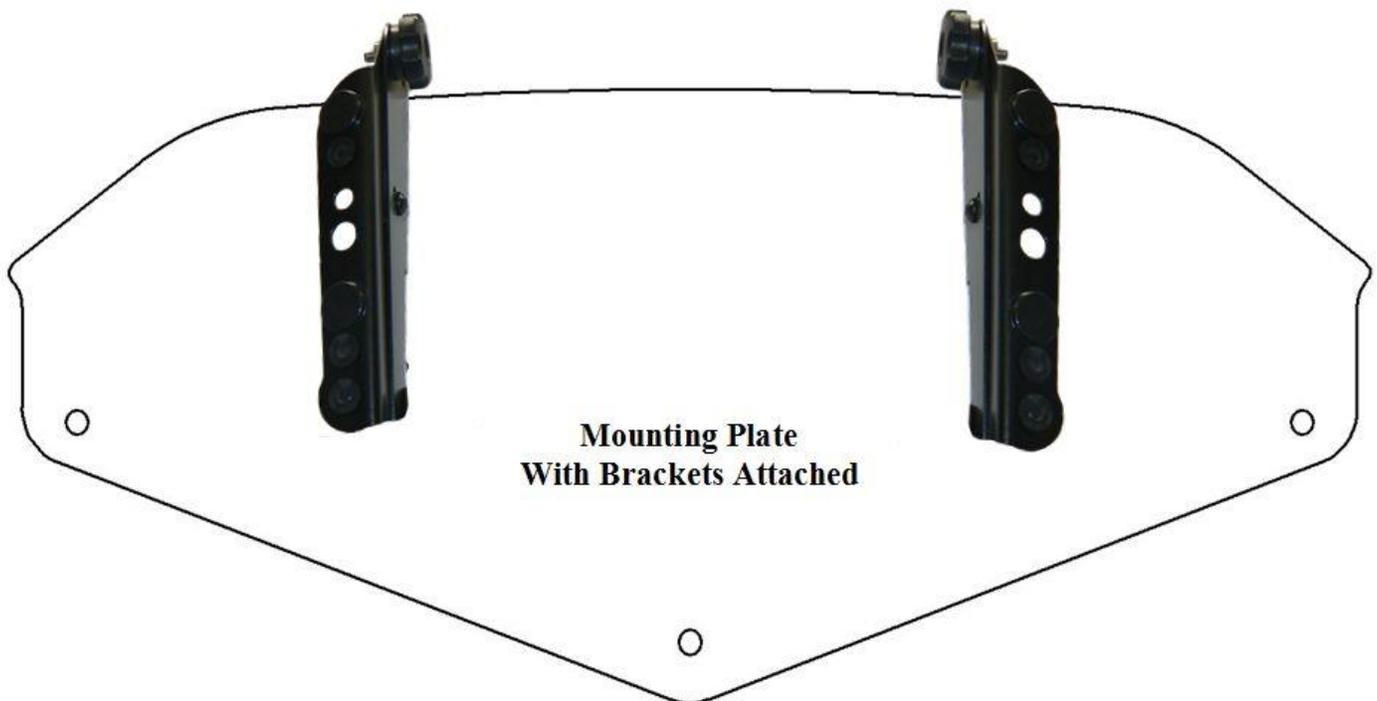
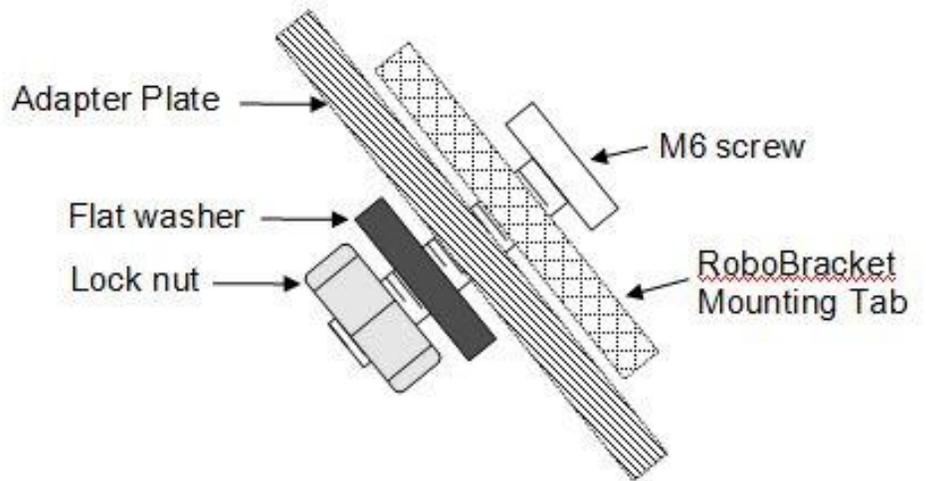
- 4 mm Allen wrench (hex key)
- 10 mm wrench (open-end, box, or small adjustable crescent)
- #2 Phillips screwdriver

MadStad adjustable brackets are designed to bolt to a curved surface like the acrylic mounting 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 allow you to change the windshield height and tilt without getting off of the bike, and without any tools.

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

### Bracket Installation:

Your brackets attach to the MadStad mounting plate as shown below. Use the four M6 x 16 screws with washers and lock nuts as shown in the diagram at right.



## STOCK SHIELD REMOVAL

Stock windshield removal is the same as for the GL1800 and there are videos on YouTube for this if you want to see it done in person. However the procedure is pretty straightforward, requiring you to remove just two hidden screws that can be found down inside the rear-view mirror cavity.

Fold the mirrors forward toward the front of the motorcycle to gain access to a 10mm bolt inside the fairing. (TIP: Stuff a rag inside the mirror mount cavity underneath this bolt just in case the bolt falls out of your fingers. That way the rag will prevent the bolt from falling down into the body of the bike.) Use a 10mm box-end or open-end wrench to take this bolt out. There is also a rubber grommet underneath this bolt, and you should remove that grommet as well. Repeat on the other side.

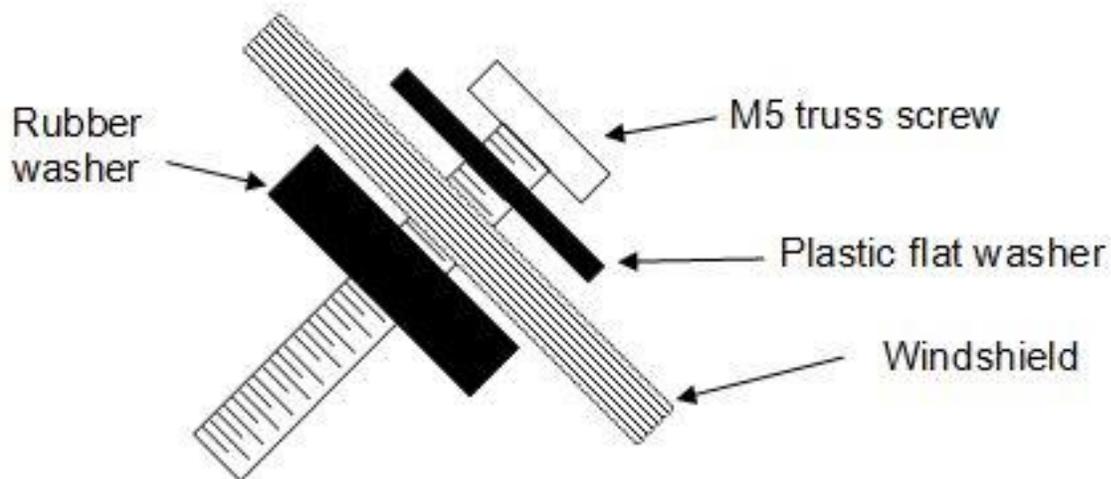
You will see that the body panel has a tab that slides over the threaded hole (at each bolt you just removed) and the body panel is fairly flexible so it can be flexed enough on each side to slide the tabs off of the threaded holes. Once these tabs are released, stand in front of motorcycle and pull the panel toward you, straight out. This will gain you access to the 8mm bolts that hold the windshield on. (TIP: When removing these bolts be sure not to drop any of the rubber bushings, spacers or washers on the front and back side of the windshield.)

Once the stock windshield is off, the MadStad mounting plate (with brackets attached) then slides into the fairing in place of the stock shield. Screw it in with the original factory windshield screws.

## Windshield Installation

Once bracket adjustment is complete, the windshield attaches to the brackets with truss screws and rubber washers as shown below. Insert all four screws and washers into the four windshield holes as shown before attempting to attach the windshield onto the brackets. The rubber washers will hold the screws in place and make it easier to insert them into the rubber well nuts on the brackets. 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 you have two of the windshield screws inserted you may want to screw them in a bit to keep them from popping out, then finish inserting the other two and tighten all four.

**Do not over-tighten the windshield screws!** The rubber well nuts cannot be pulled up out of the brackets once they start becoming snug, 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 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.

## **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.

## **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 8.) 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](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 or materials defects, not against cosmetic issues or issues related to normal wear and tear.

# MadStad Engineering, Inc.

1451 East Jefferson Street  
Brooksville, FL 34601 U.S.A.

Phone: 352-848-3646

Fax: 352-240-3911

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

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

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

