



MADSTAD ENGINEERING Zero S Adjustable Windshield System Installation Guide

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Please read this entire manual before proceeding with installation.

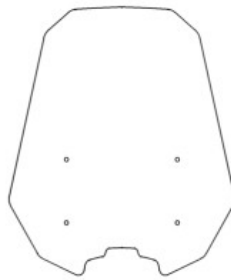
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What is in the box:

(1) MadStad Brackets Kit (4) Aluminum spacers (4) M8 x 50 button screws (8) M8 metal flat washers	(4) M5 x 20 truss screws (4) M5 flat plastic washers (4) M5 soft rubber washers	(1) Center deflector with M5 well nuts inserted (2) M5 x 16 truss screws (2) M5 flat plastic washers
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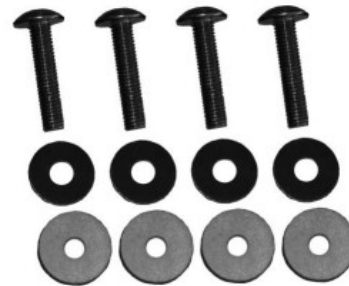
Bracket Hardware



Center Deflector Hardware



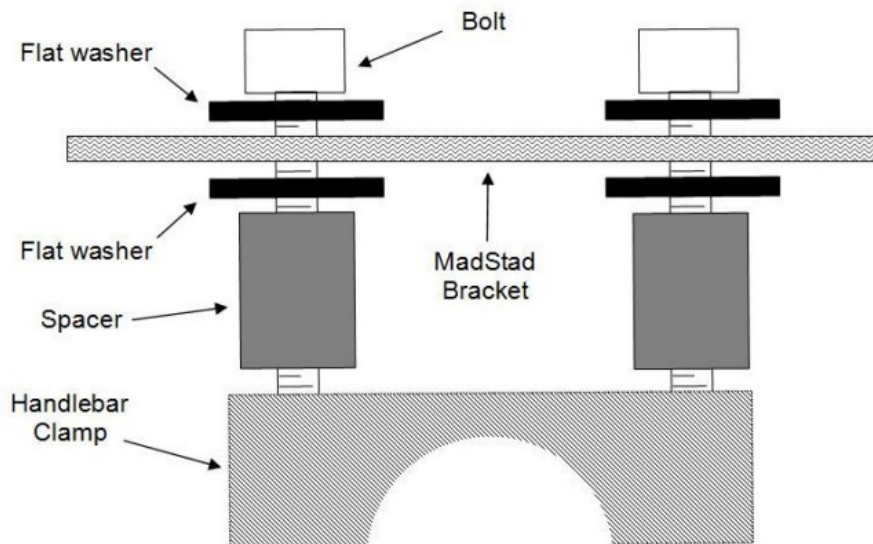
**Windshield Hardware
(Truss Screw Kit)**



STEP 1 – Remove the two handlebar clamp bolts ON ONE SIDE ONLY and DO NOT remove the top clamps, only the bolts. (If you remove all four handlebar clamp bolts or your bars will come loose!)



STEP 2 – Set two of the aluminum spacers provided in your kit into the two holes in the now-open top clamp, as seen in the photo above. Put one M8 flat metal washer on top of each spacer. To keep it from slipping off, put a dab of Vaseline or similar thick grease on top of the spacer so that the flat washer will stick to it and not slide off.



Or, pre-assemble the new long bolts with washers right onto the MadStad bracket as shown at right. Just hold the bolts and washers in place so they don't fall out when you go to set them into the spacers and lower bar clamp.

STEP 3 – Set the bracket and new M8x50 button screw through the spacers and onto the bar clamps, then bolt it down (see image below). **NOTE:** Tighten the front bolt completely first, then tighten the back bolt to factory specifications.



STEP 4 – Repeat steps 1 and 2 for the other bar clamp and brackets.

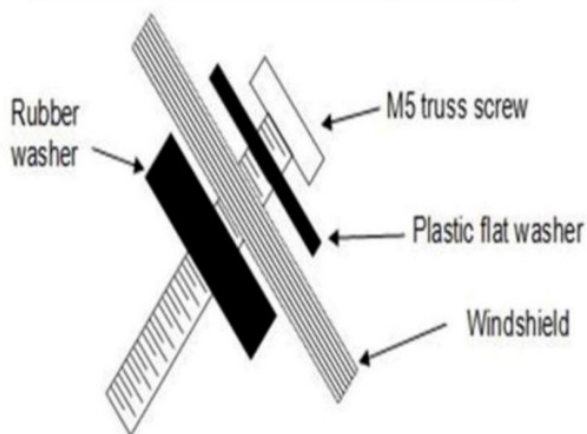
STEP 5 – Install the center deflector. The deflector is positioned UNDERNEATH the MadStad brackets, fastened with the M5 x 16 truss screws and M5 plastic washers.

STEP 6 – Windshield Installation

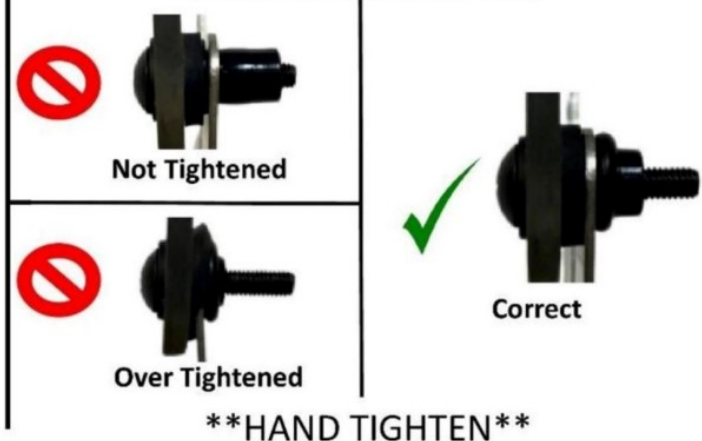
Windshield Installation

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.

Windshield Layout:



Well Nut Tips:



Adjusting the MadStad Knob 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 (roughly the same angle as your forks). You can also use the angle diagram 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 brackets 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.

Bottom deflector

The center deflector is designed to block a jet of air that shoots up from in front of the fuel tank and hits you in your body. You do not have to use this deflector, however most likely it will give you a calmer and quieter ride, particularly at highway speeds. Using the T-screws provided you can easily remove or install it at will.

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 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.

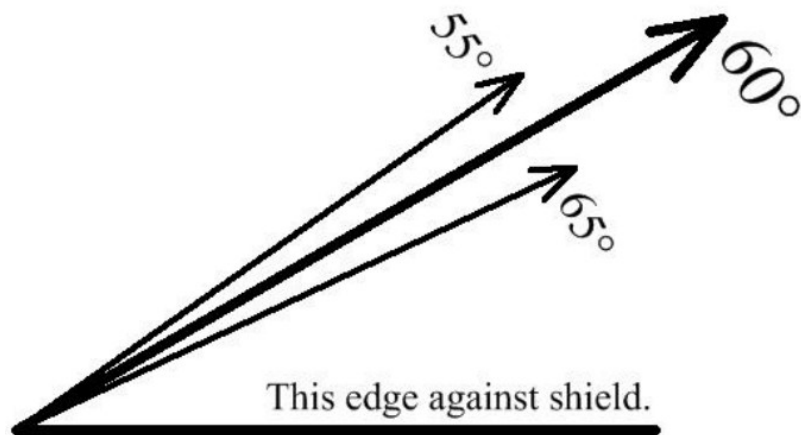
On some bikes a more vertical angle works better, so don't be afraid to experiment later if tilting the shield back doesn't seem to be ideal.

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

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!



April 12, 2018

Documents / Resources



[MADSTAD ENGINEERING Zero S Adjustable Windshield System](#) [pdf] Installation Guide
Zero S Adjustable Windshield System, Zero S, Adjustable Windshield System, Windshield System

References

-  [Adjustable motorcycle windshield systems | motorcycle windscreen | Madstad](#)
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