

## 2005 WINWOOD LIMITED 2 YEAR WARRANTY

This product is warranted against defects in materials and workmanship only, for 2 years from the original date of retail purchase by the consumer, subject to the limitations detailed below. This warranty is expressly limited to the repair or replacement of the original product, at the option of Winwood, and is the sole remedy of this warranty. This limited warranty applies only to the original purchaser of this product and is not transferable. In no event shall Winwood be liable for loss, inconvenience, or damage, whether direct, incidental, or otherwise resulting from breach of any express or implied warranty or condition, of respect to this product except as set forth herein.

This warranty does not cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of user
- Products that have been modified, neglected, used in competition or for commercial purposes, misused or abused, involved in accidents, or anything other than normal use
- Damage or deterioration to the surface finish, aesthetics or appearance of the product
- Normal wear and tear
- Labor required to remove and/or refit and re-adjust the product within the bicycle assembly

This warranty gives the consumer specific legal rights, and those rights and other rights may vary from state to state.

We recommend that you have this product installed and maintained by a professional bicycle mechanic.

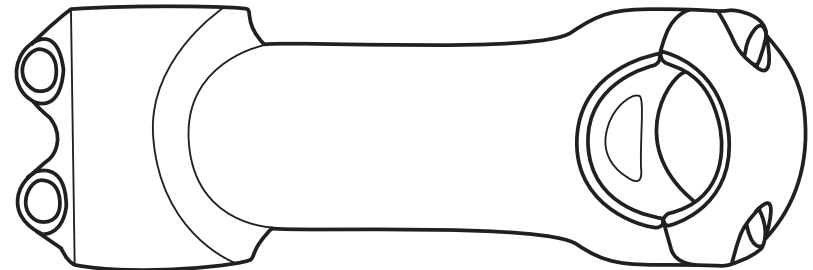
Contact us:

Winwood  
6400 West 105th Street  
Bloomington, MN 55438  
tel. 877-946-9333  
fax. 952-941-9799  
[www.winwoodbike.com](http://www.winwoodbike.com)



## Winwood™ Threadless Stems

### Owner's Manual



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## INSTALLATION INSTRUCTIONS FOR WINWOOD™ THREADLESS STEMS

It is recommended that a professional bicycle mechanic install your Winwood threadless stem, especially if you do not have access to a torque wrench. If you have any questions concerning the installation, contact a professional bicycle mechanic for assistance. Please read the instructions thoroughly before proceeding with the stem installation. All instructions must be followed carefully and the torque values adhered to; failure to do so can result in damage to the bicycle, loss of control, and serious injury or death to the rider.

**WARNING: You must have a 1" or 1-1/8" threadless system to use this stem. Threaded steerers have a reduced wall thickness and cannot be used with a threadless stem. Installing a threadless stem onto a threaded steerer can result in steerer failure and, consequently, serious injury or death to the rider.**

### PREPARATION

Before removing your old stem and handlebar, note the angle of the bars and the position of the brake levers and shifters. If the old stem has a removable front cap, component removal is not necessary...just unbolt the front cap and remove the handlebar. If the old stem does not have a removable front cap, remove the components from one side of the handlebar, and loosen the handlebar binder bolt(s) on the stem. Remove the old stem from the steerer while holding onto the fork, so the fork does not fall onto the floor or your foot. If you have a non-removable front cap stem, now loosen the handlebar clamp bolt, and carefully remove the handlebar. A scratch or gouge in a handlebar can compromise its structural integrity and may cause a catastrophic failure.

Before installation, make sure the headset is properly installed and in good condition. The steerer clamp-to-steerer and handlebar clamp-to-handlebar mating surfaces must be clean and free of any dirt, lubricants, and/or retaining compounds. Measure the outside diameter of the steerer to make sure the stem will fit; the 1-1/8" Winwood threadless road stem will work on a 1-1/8" steerer and on a 1" steerer with the provided shim.

### INSTALLATION

Any cable hanger and/or desired spacers should be installed first. Slide the stem onto the steerer (when using a 1-1/8" stem on a 1" steerer, first install the shim on the steerer clamp, aligning the compression slots). Push the stem on the steerer as far as it will go, make sure everything is seated properly, and then tighten one binder bolt just enough to temporarily secure the stem to the steerer.

The top of the steerer should be 2–3mm below the top of the stem steerer clamp. If the steerer is too long, with the desired amount of spacers inserted (not to exceed 10mm), it must be cut and the headset star nut must be repositioned. If the steerer is too short, there is insufficient clamping surface for the stem to be installed securely. Installation of a stem onto a steerer that is too short may result in steerer or stem failure, resulting in rider injury or death.

Lubricate the top cap anchor bolt with grease. Place the top cap into the top of the stem, and insert the anchor bolt. Thread the bolt into the star nut as far as it will go, but do not tighten yet.

Now remove the binder bolts and lubricate them with grease. Reinstall them loosely but do not tighten them yet. Preload the headset by tightening the top cap anchor bolt to the torque specified by the headset manufacturer. Adjust preload until no binding or play (looseness) are present in the headset. Align the stem with the front wheel and now tighten the steerer clamp binder bolts alternately, in small increments, until both reach an equal reading of 45–60 in. lbs.

Once again, check for headset play. If play exists, loosen the steerer clamp, pinch bolts, and tighten the top cap anchor bolt 1/16th of a turn. Align the stem, and retighten the pinch bolts to the proper torque spec. Repeat until proper adjustment is made.

Remove and lubricate the handlebar clamp bolts with grease. Lightly clamp the handlebar front cap onto center of the handlebar, inserting and tightening both bolts just enough to hold the bar. Center and rotate the handlebar to the desired position. Alternately tighten the bolts in increments until both reach an equal reading of 45–60 in. lbs. The upper and lower gaps, between the front cap and the rear portion of the handlebar clamp, should be equal.

Install the components onto the handlebar, if necessary.

While straddling the top tube and holding the front wheel between your legs, make a strong attempt to rotate the stem around the steerer. If the stem rotates, increase the torque on the steerer clamp bolts; do not exceed 60 in. lbs. Test the handlebar clamp tightness by trying to rotate the bar fore and aft. If the bar rotates, increase the bolt torque; do not exceed 60 in. lbs. If maximum torque has been reached and the bar still rotates, the center section of the bar may be fatigued, requiring replacement of the handlebar.

Check the tightness of the stem bolts before each ride.