

DIMENSION 31.8 x +/-6° STEM INSTRUCTIONS

Thanks for buying a Dimension 31.8 x +/-6° Stem. We hope our stem makes a big difference in the fit and feel of your ride.

⚠ WARNING: Cycling can be dangerous. Bicycle products should be installed and serviced by a professional mechanic. Never modify your bicycle or accessories. Read and follow all product instructions and warnings including information on the manufacturer's website. Inspect your bicycle before every ride. Always wear a helmet.

For additional product and safety information go to:
www.dimensionbikeproducts.com/safety

COMPATIBILITY

Dimension 31.8 x +/-6° stems come with a 31.8mm handlebar clamp. Verify that you are using compatible handlebar and stem clamp diameters before attempting installation. If you are unsure that you are using compatible handlebar and stem clamp diameters, take your bicycle to a professional bicycle mechanic for installation. Use with 1-1/8" threadless steerers.

⚠ WARNING:

- Dimension stems are not intended for use with carbon handlebars or carbon steerer tubes
- Dimension 31.8 x +/-6° stems are not intended for use with handlebars wider than 800mm
- Not intended for use with aerobars
- This stem is not compatible with threaded steerer tubes

INTENDED USE



Dimensions Threadless Stems are designed for ASTM riding condition 3.

This is a set of conditions for the operation of a bicycle on a regular paved surface, unpaved and gravel roads and trails with moderate grades with irregular terrain where loss of tire contact with the ground may occur. As well as rough trails and unimproved trails that require technical skills. Jumps and drops are intended to be less than 61cm [24"].

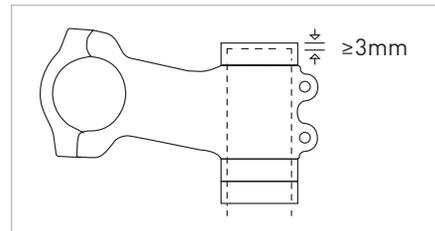
For complete ASTM guidelines, please visit
www.dimensionbikeproducts.com/safety.

TOOLS REQUIRED

Torque wrench that measures in Nm
4mm hex wrenches
Grease

INSTALLATION

1. Insert the fork through the bottom of the frame's head tube. Install the top outer cover of the headset over the bearing cup.
2. Install any cable hanger and/or desired headset spacers, then slide the stem onto the steerer tube.
3. Push the stem on the steerer tube 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 tube.
4. Carefully measure and mark the amount of steerer tube to be removed. Remember that, when cut, the top of the steerer tube must extend at least 3mm above the stem. If the steerer tube extends more than 3mm above the stem (with the desired amount of spacers) install necessary amount of headset spacers on top of your stem.



- ⚠ WARNING:** Installation of a stem onto a steerer tube that is too short may result in steerer tube or stem failure, resulting in serious injury.
5. Lubricate the top cap anchor bolt with grease. Place the top cap on top of the additional spacer above the stem and insert the anchor bolt.
 6. Thread the bolt into the star-nut as far as it will go, but do not tighten yet.
 7. 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) is 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 5.2 Nm.
 8. Once again, check for headset play. If play exists, loosen the stem binder bolts and tighten the top cap anchor bolt 1/16th of a turn. Align the stem, and retighten the binder bolts to 5.2 Nm.
 9. Repeat step 8 until proper adjustment is made.
- ⚠ WARNING:** Improper installation of bolts may lead to product failure, causing serious injury. Do not exceed specified torque values. Periodically check to make sure the stem bolts for the steerer tube clamp and stem faceplate are properly torqued to the indicated specification.



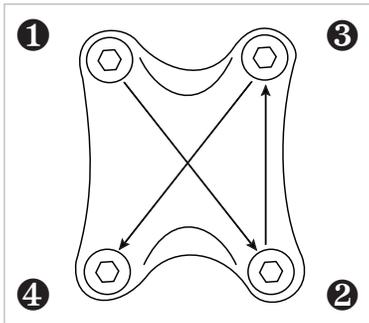
DIMENSION
BICYCLE COMPONENTS

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REATTACHING THE HANDLEBAR TO THE STEM

NOTE: Ensure that the handlebar clamp-to-handlebar mating surfaces are smooth, clean, and free of any dirt, lubricants, or retaining compounds.

1. Remove the bolts from the stem faceplate.
2. Before tightening the stem to the bar, remove any sharp edges or burrs with 400-grit (ISO P-800) sandpaper.
3. Lubricate the handlebar clamp bolts with grease.
4. Lightly clamp the handlebar faceplate onto center of the handlebar, inserting and tightening the bolts just enough to hold the bar.
5. Center and rotate the handlebar to the desired position.
6. Using a criss-cross pattern, alternately tighten the faceplate fixing bolts in half-turn increments until they each 5.2 Nm. The gaps between the faceplate and body of the stem body should be equal.



7. Before installing control lever clamping bands, remove any sharp edges or burrs. Then torque shift/brake and handlebar grip clamps to manufacturer's specifications. Do not exceed 8 Nm.

⚠ WARNING: Improper installation of bolts may lead to product failure, causing serious injury. Do not exceed specified torque values. Periodically check to make sure the stem bolts for the steerer tube clamp and stem faceplate are properly torqued to the indicated specification.

ONGOING MAINTENANCE

1. After properly torquing the stem and control levers, straddle the top tube, squeezing the front wheel between your legs, grab the control levers and make a strong attempt to rotate the handlebar up or down. If the bar rotates, increase the faceplate bolt torque making sure to not exceed 6.2 Nm. If the brake/shift levers rotate, increase the torque on the lever clamps to the manufacturer's specifications but do not exceed 8 Nm.

2. Check the tightness of the stem bolts before each ride.

⚠ WARNING: If maximum torque has been reached and the bar or levers still rotate, take your bicycle to your local bicycle dealer for inspection.

Periodically inspect your stem, handlebar, fork and frame for any signs of cracking or damage, especially after a crash or other impact. If in doubt, have your bicycle inspected by a professional bicycle mechanic.

LIMITED 2-YEAR WARRANTY

Dimension warrants this new Dimension product against defects in materials and workmanship for two (2) years from the original date of retail purchase by the consumer. This limited warranty is expressly limited to the repair or replacement of the original product, at the option of Dimension, and is the sole remedy of the warranty. This limited warranty applies only to the original purchaser of the Dimension product and is not transferable. In no event shall Dimension be liable for any loss, inconvenience or damage, whether direct, incidental or consequential or otherwise resulting from breach of any express or implied warranty or condition of merchantability, fitness for a particular purpose, or otherwise with respect to this product except as set forth herein. This warranty gives the consumer specific legal rights, and those rights and other rights may vary from state to state.

This warranty does not cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of the end 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
- Installation of components, parts, or accessories not originally intended for or compatible with Dimension products

TO THE EXTENT NOT PROHIBITED BY LAW, THESE WARRANTIES ARE EXCLUSIVE AND THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.