

ENGLISH

Tools & Materials Needed:

- **Torque Wrench** - For tightening bolts to the specified torque settings.
- **Allen Wrenches (Hex Keys)** - Typically in sizes 4mm, 5mm, and 6mm for various bolts on handlebars and controls.
- **Fine-Tooth Hacksaw** - For trimming handlebar ends, if necessary.
- **Calibrated Torque Wrench** - To torque bolts accurately during installation and maintenance.
- **Isopropyl Alcohol** - For cleaning surfaces before installation.
- **Clean Cloth or Rags** - For wiping down components and surfaces.
- **Safety Glasses** - For protection when cutting or inspecting handlebars.
- **Gloves** - For hand protection during installation and maintenance.

CAUTION!

All Cast products should be installed by a qualified bicycle mechanic using the correct professional tools. Always use a calibrated torque wrench when tightening bolts to the recommended torque settings. Bolts that are either too loose or too tight can lead to failure. Incorrect installation may void the product's warranty.

WARNING!

Improper installation, use, or maintenance of this product can cause premature failure and serious injury. For your safety, always read and follow the provided installation instructions or those available on our website. Not adhering to these instructions can result in component failure. Component failure could cause a loss of control of the bicycle and lead to severe personal injury or death.

WARNING!

Impacts and crashes can cause damage to carbon composite products that may not be visible. Continued use of a damaged product can result in failure and serious injury or death. If this product has been involved in an impact or crash, STOP RIDING IMMEDIATELY and take it to a professional bicycle mechanic for inspection.

WARNING!

Riding a bicycle carries inherent risks. To reduce the chance of injury, always wear a certified helmet. Make sure your bike is properly maintained and all parts are correctly installed and adjusted. Always ride cautiously and within your abilities.

1. Preparation

CAUTION!

Cast recommends using Cast handlebars and stems together. If you're installing Cast components with those from another manufacturer, always follow that manufacturer's instructions and the recommended practices included in this guide for proper installation.

Installation Guidelines

- Handlebars are designed to fit stems with matching clamp diameters. Incorrect pairing of components can cause them to fail.
- Ensure that the stem and control clamps are free of burrs or sharp edges. Sharp edges can damage the handlebars, potentially leading to component failure. If there are sharp edges, have them checked and resolved at your local bike shop to ensure there are no burrs or sharp edges on the clamps.

2. Handlebar Installation

- Avoid damaging the handlebar when installing the stem, controls, shifters, brakes, or dropper levers.
- Bar end use is not allowed on Cast handlebars.
- Clean the handlebar, stem clamp, and control clamp surfaces with alcohol and allow them to dry.
- Center the handlebar in the stem clamp and rotate it to the desired position. You can use the radial markings on Cast stems to assist with this.
- Tighten the stem handlebar clamp bolts to the specifications provided by the stem manufacturer.
- For Cast handlebars and stems, the maximum torque for the stem handlebar clamp is 6Nm (Figure 1).
- When installing controls (such as shifters, brakes, dropper levers, grips) on mountain bars, carefully slide the clamps over the bar into position. Do not rotate the clamp while tightening. Tighten the control clamp bolts to the torque specified by the control manufacturer.
- For handlebars, the maximum torque for control clamps is 4Nm (Figure 2).
- Do not clamp any accessories (lights, racks, bags, computers, etc.) on the handlebar taper. (Figure 3).

- If you wish to trim the ends of the handlebar, use a new fine-tooth hacksaw and do not trim more than 30mm from each end. On Cast handlebars you can use the incremental markings on the end of the bar to assist with this.
- When transporting your bicycle or when it is on an uplift trailer, never attach tie-down hooks directly to the handlebar. If using tie-downs, use a strap to contact the bar (Figure 4).

3. Maintenance

WARNING!

Never ride with a loose stem, bars, or controls. If the bars or stem slip or make noise, check to ensure that the bars are correctly installed and securely fit in the stem. Riding with loose components can result in failure and loss of control, leading to serious injury or death.

- Use a calibrated torque wrench to re-torque all bolts after the first ride. If any bolts move, re-torque them after the next ride.
- Re-torque all bolts every six months using a calibrated torque wrench.

WARNING!

Handlebars require regular maintenance and close inspection. Specifically:

- Regularly inspect for dents, bends, deep scratches, cracks, chips, or gouges before each ride. If any damage is visible, do not use the bicycle until the handlebar has been replaced.
- Handlebars can be significantly weakened even if no damage is visible. After any crash or impact, even if no damage is apparent, have the handlebar inspected by a mechanic before using the bicycle again. Never attempt to straighten a bent handlebar. It must be replaced.
- In the event of a crash or impact, carefully inspect your handlebars, stem, fork, seat post, wheels, and frame for any visible damage. As with any component subjected to varying stress, there is a limited fatigue life proportional to the use and abuse of the part. If you are uncertain about the condition of your components or any part of your bicycle, consult a bicycle mechanic.
- Replace your handlebars periodically. Your dealer can advise you on the appropriate frequency of replacement. Immediately replace any scratched or damaged handlebars, and destroy any handlebars replaced for safety reasons.

WARNING!

Impacts and crashes can cause damage to carbon composite products that may not be easily visible. Continued use of a damaged product can result in failure, leading to serious INJURY OR DEATH. If this product has been involved in an impact or crash, STOP RIDING IMMEDIATELY and have it inspected by a professional bicycle mechanic.

