

# FELT CARBON ROAD FRAME CARE GUIDE

THIS GUIDE CONTAINS IMPORTANT INFORMATION. PLEASE READ CAREFULLY AND STORE IN A SAFE PLACE.

Congratulations! The Felt Carbon Fiber frame you have chosen is among the finest products available in cycling. Carbon fiber is a very special material that requires particular care during assembly, storage and riding.

**⚠ WARNING! Failure to follow these instructions may result in a catastrophic failure of the frame and/or its components while riding, which may result in serious personal injury or death.**

This short reference guide contains instructions and warnings, plus torque specifications specific to Felt Carbon frames. Reference should be made to the Felt Bicycles Owners Manual. Reference should also be made to Barnett's, Sutherlands, or other comprehensive bicycle manual.

To ensure the best assembly possible and to prevent any damage to the components or frame, follow all torque specifications. Please refer to the specific owner's manuals for correct torque specifications as well as the recommended loads that the contact points of the frame are capable of accepting.

**⚠ WARNING! Assembling a bicycle is a complicated task requiring training and experience. Do not attempt installation of any component if you do not have experience and training as a bicycle mechanic. Failure to follow this warning may result in serious personal injury or death.**

Unlike metal parts, carbon composite parts that have been damaged may not bend, bulge or deform; a damaged part may appear to be normal to a cursory glance. After any high force load, like a crash, or other impact to your bicycle, thoroughly inspect all the parts of your bike, and use the following procedures to inspect carbon composite parts.

- Check for scratches, gouges, or other surface problems.
- Check the part for loss of rigidity.
- Check the part for delamination.

If you are in the slightest bit unsure... If you have any doubts about the integrity of a part, do not ride the bicycle.

Be very careful when handling carbon fiber parts that are suspected of damage. When a composite part is damaged, there is a possibility that individual fibers may be exposed. Carbon fibers are thinner than a human hair, but quite stiff. If the point of one of these fibers is pressed against your skin, it could pierce your skin like a needle.

**⚠ WARNING - A damaged carbon fiber part can fail suddenly, causing serious injury or death. Inspect a carbon fiber bicycle, or parts, for damage frequently. SURFACE DAMAGE TO THE FRAME, SUCH AS SCRATCHES, GOUGES, OR CHIPPING, MAY BE AN INDICATION OF DAMAGE WHICH MAY IMPAIR THE STRUCTURAL INTEGRITY OF THE FRAME. If you suspect a carbon fiber part is damaged, replace the DAMAGED part before riding or take the bike to your dealer for service.**

## MAINTENANCE, CHANGING COMPONENTS OR ADDING ACCESSORIES

Bicycle components such as a handlebar, handlebar stem, seat post, saddle, brakes, all must be compatible with each other, the frame, and the intended use. Any doubt regarding compatibility should be discussed with your local authorized Felt retailer.

**⚠ WARNING! When placing the frame and/or bicycle in a repair stand, clamp the stand to the seat post and not the frame. Clamping the frame can cause damage to the frame that may or may not be visible, which may impair the structural integrity of the frame. Failure to follow this warning may result in serious personal injury or death.**

**⚠ WARNING! Failure to follow the torque specifications in this installation guide will void your warranty, but most importantly may result in damage to the frame that may not be visible. If the frame is damaged, this can result in loss of structural integrity, which may result in serious personal injury or death.**

## A) BOTTOM BRACKET

Refer to your bottom bracket owner's manual prior to installation.

Ensure that the Bottom Bracket shell threads are clean and greased prior to installation. Do not exceed maximum torque of 50Nm (435in-lb).

Felt Carbon Fiber bicycle frames are precision machined to accept a 68mm, English threaded Bottom Bracket, so there is no need to machine them again. With the exception of greasing the bottom bracket threads, your Felt frame does not require any Bottom Bracket pre-install preparation.

Should damage occur to the treads in the bottom bracket shell, it is acceptable to chase the bottom bracket threads. Do not face bottom bracket shell or otherwise attempt to modify the surfaces of the bottom bracket.

#### B) SEAT POST

Refer to your seat post owner's manual prior to installation. Felt road frames have a 27.2mm seat post diameter and require that the seat post have a tolerance of 27.12mm to 27.20mm. The seat collar inner diameter is 30.6mm.

Felt Carbon Fiber bicycle frames are precision machined at the seat tube post interface so there is no need to machine them again.

Recommended torque is 60in-lb (7m). Do not exceed maximum torque of 75in-lb (8.4Nm). Exceeding this limit can result in damage to the seat post.

**⚠ WARNING! Do not extend seat post above the minimum insertion line. Extension beyond the minimum insertion line can result in failure, causing serious injury or death.**

#### C) HEADSET INSTALLATION / REMOVAL

Use only Cane-Creek IS-type Integrated Headsets.

Felt Carbon Fiber bicycle frames are precision machined at the head tube, BB, and the seat tube post interfaces so there is no need to machine them again. Do not face, ream, or otherwise attempt to modify the surfaces of the head tube.

#### D) FRONT DERAILLEUR

Recommended torque for the front derailleur is 5Nm (44in-lb). Do not exceed maximum torque of 7Nm (60 in-lb).

#### E) REAR DERAILLEUR

Ensure that the threads are clean prior to installation.

Recommended torque for the rear derailleur is 8Nm (70in-lb). Do not exceed maximum torque of 10Nm (87in-lb).

#### F) BRAKES

Recommended torque for road brake calipers is 8Nm (70in-lb). Do not exceed maximum torque of 10Nm (87in-lb).

#### G) WATER BOTTLE CAGE

Recommended torque for the water bottle cage bolts is 3.9Nm (35in-lb). Do not exceed maximum torque of 4.5Nm (40in-lb).

**⚠ WARNING! Great care should be taken to not damage carbon fiber or composite materials, including the frame and any carbon fiber or composite components. Any damage may result in a loss of structural integrity, which may result in a catastrophic failure. This damage may or may not be visible in inspection. Before each ride, and after any crash, you should carefully inspect your bicycle for any dents, fraying, gouging, scratches through the paint, chipping, bending, or any other signs of damage. Do not ride if your bicycle shows any of these signs. After any crash, and before you ride any further, take your bicycle to an authorized Felt retailer for a complete inspection.**

#### WARRANTY

For the complete warranty provisions, please refer to the Felt Owner's Manual or [www.FeltBicycles.com](http://www.FeltBicycles.com).

Periodically review the tech support section at [www.FeltBicycles.com](http://www.FeltBicycles.com) for updates and additional technical information regarding this product.