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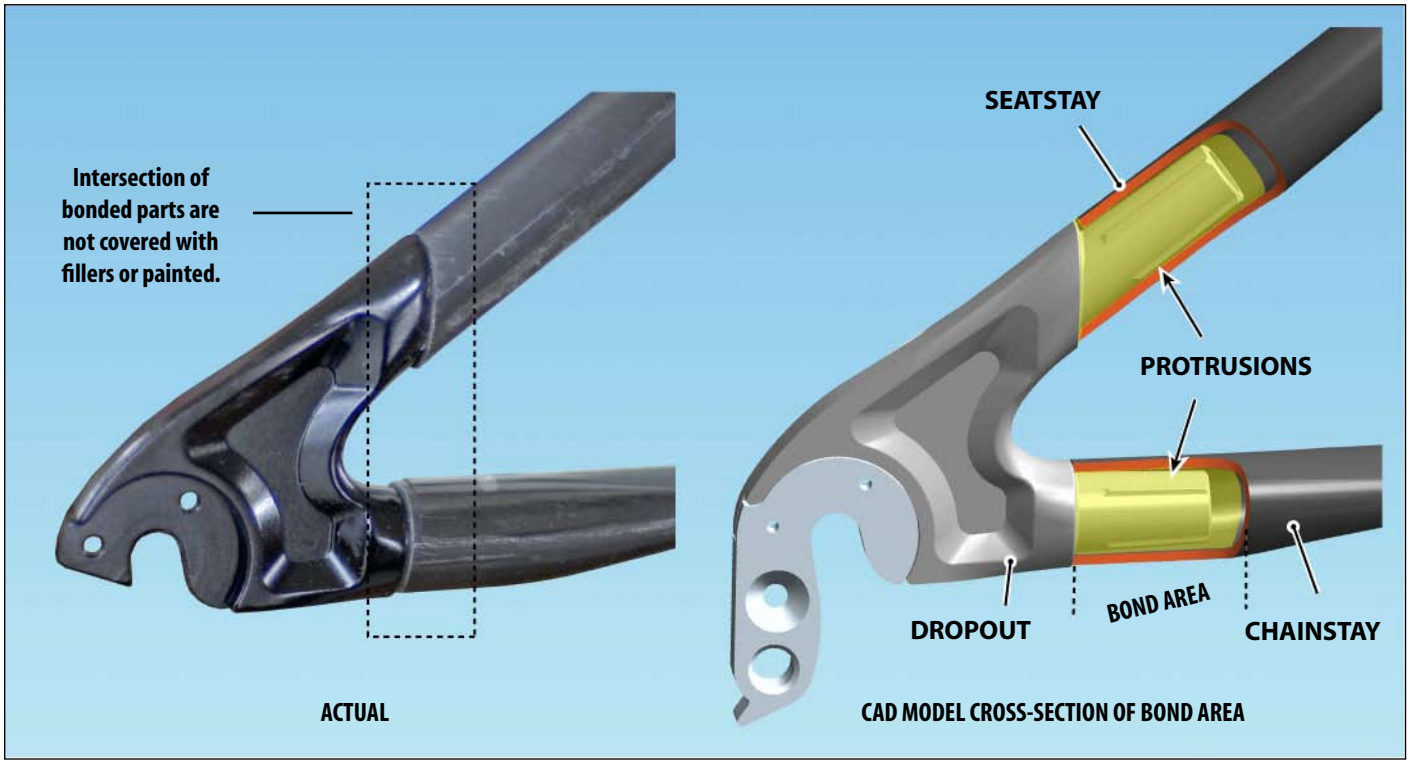
TECH NOTE
Scalpel 100



SCALPEL 100 BOND APPEARANCE

On the Scalpel 100, you will see some bonding epoxy and the profiles of the bonded parts may not transition smoothly. Technology and innovation aren't always attractive.

The Scalpel 100 stay designs and the bonding process focuses solely on function. Incorporating cosmetic fillers that bridge gaps between the forged parts and the carbon could smooth the appearance but add on considerable weight. This runs counter to the Scalpel design philosophy.

The Scalpel 100 Zero-Pivot carbon fiber rear chain and seat stay assemblies were engineered with a strategic composition of modulus and a tactical lay-up. The design progressed gram by gram. We want you to have confidence that the less than sexy looks are not defects in manufacture.

We attempt to reduce the appearance of epoxy, visible gaps, and alignment between the bonded parts by carefully preparing the inner diameter of the stays before bonding. The actual bond area between the protrusion and inner surface of the chainstay are tightly controlled. The strength of the bonds between the parts are then proofed test by a specially developed manufacturing fixture.

The fact remains, however, that some visible gaps and slight misalignments will be present. The edge of a carbon stay may be higher than the matching contour of the forged part.

Additionally, you will notice that the carbon stays are not sanded, painted, or clear coated. Again, the carbon stays appear as they would straight out of the clean molds. You may even see the mold parting lines in the stays. Here again, it makes more sense to refrain from painting over the chain and seat stays since they are designed to flex, and that fact would cause paint to crack.

Imperfect looking bond gaps or alignment are not structural defects. However, during regular frame inspection, it is important that you inspect for cracks in parts or relative movement between them. If you do see this type of damage, stop riding the bike and have it inspected by your Cannondale Dealer.

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