

## NEW RAVEN II SEAT POST BINDER SYSTEM

This new seat post binder system must be used on all Raven II frames. Raven II frames use carbon fiber skins with a magnesium spine, and can be identified by the scooped recesses in each side of the frame in which the "Cannondale" and "Raven" decals are placed. You must only use a 27.2mm seat post with the Raven II frame and the new seat binder system.

The new Raven II seat post binder system uses the included aluminum sleeve to resist torsional loads between the two seat post binder clamps. The sleeve acts like a traditional bicycle seat tube to secure the seat post, except that the seat post sleeve is attached to the Raven II frame by the two included band clamps.



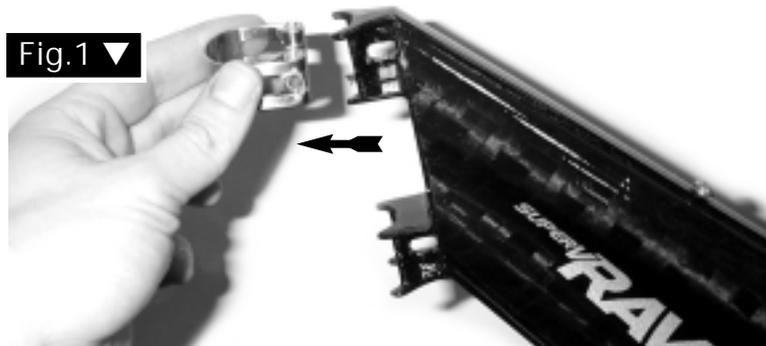
### SEAT POST BINDER SYSTEM INSTALLATION

1. If the bike is already assembled, it will be necessary to remove the seat post and the original seat post band clamps from the Raven II frame. First mark the seat post position by putting a pen mark or a piece of tape 1/8" (3mm) above the top of the seat mast on the front surface of the seat post. Then loosen and completely remove the two band clamp bolts using the 4mm hex wrench, and slide the seat post out of both clamps. With both bolts removed, open up the band clamps and remove each from the back of the seat mast. See Fig. 1. These old clamps should be discarded.

2. Apply a small amount of grease to the seat post surface which will be inside the sleeve. Also apply a bit of grease to the threads on the new band clamp bolts.

3. Slide the seatpost into the sleeve, so that the saddle height mark which you made comes to the top of the sleeve. Make sure that the two vertical slots in the sleeve will face the rear of the bike when installed on the Raven II frame. Also make sure that the seat post extends completely through the sleeve.

4. Place the seat post sleeve against the back of the seat mast. The two slots in the tube must face the rear of the bike and the sleeve must be positioned so that it extends evenly above and below the clamping area. See Fig 2.



5. With the bolts removed from the two new band clamps, snap the clamps over the sleeve from the back, so that the two tabs on the inside of the band clamps correspond with the widest part of the slots in the back of the sleeve. The clamps have two barrel shaped nuts, one of which is threaded. The threaded side of each clamp should be on the left side of the bike. Pinch in the ends of each band clamp to hold the clamp in place on the back of the seat mast. **See Fig 3.**

6. Insert one bolt through each band clamp. The bolt first passes through the unthreaded barrel nut on the right side, through the hole in the seat mast, and then into the left threaded barrel nut.

5. Once both band clamps have been installed, make sure that the sleeve is oriented with the two slots facing back, and that it is located evenly between the two band clamps. If not, reposition the tube correctly.

Fig.3 ▼



6. Make sure that the seat post extends completely through the aluminum sleeve, but does not interfere with the rear shock or swingarm. If you cannot achieve a tall enough saddle height and still have the seat post extending below the bottom of the sleeve, you must use a longer seat post. **If you cannot achieve a low enough saddle height without having the bottom of the seat post interfere with the rear suspension, you must cut off the bottom of the seat post.**

7. Tighten each band clamp bolt to **70-80 In-Lbs (8-9Nm)**.

***WARNING: Use only a 27.2mm diameter seat post and be sure that the seat post is held securely by the seat post binder system. Both clamp bolts must be torqued to 70-80 In-Lbs (8-9 Nm). Also, the seat post must extend completely through the aluminum sleeve. Failure to properly torque the clamps or to properly position the seat post completely through the sleeve could lead a loss of control and risk of serious injury or death.***

For more information on this or any Cannondale product, please feel free to contact us.

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