

## Ventus Ltd™ and Ventus Team™ aerobar

### Grip Replacement Instructions

It is important that you read these instructions thoroughly to ensure that your Ventus Grips are replaced properly and safely. These instructions explain the procedure to remove the old grips from the handlebar and to install the new ones with the bonding system. With proper care and following these instructions, the Ventus replacement grips will provide the same high degree of performance you have currently experienced from your Ventus. The instructions are also available at [www.thenew3t.com/ventusrecall](http://www.thenew3t.com/ventusrecall).

If you sell or loan your Ventus bar before replacing the grips, please provide the new rider with these instructions. Should you need any assistance during this procedure or if you need another kit please call 1-800-xxx-xxxx from 9 am to 5pm Central Time M-F.

#### Tools Required:

5mm Allen key or wrench (any type)

Two 2mm Allen keys or wrenches (any type)

**3T repair kit contains** (see photo below):

2 alcohol prep pads

two new Ventus grips

sandpaper

0.07oz. tube of Loctite 401 adhesive



1. Remove both the break levers from the bar. Please note that you **DO NOT** have to remove the aerobar from the bicycle in order to complete this repair. Make sure your bike is held upright in a bike stand or in some other fashion so that the bike will not fall over during this repair.
  - a. Note that you will not need to remove the brake cable inner wire or any brake cable housing from the bike.
  - b. First loosen the brake cable fixing bolts on both front and rear brake calipers with a .5mm allen wrench, (refer also to brake manufacturers instructions) so that you can free up about 1 inch of slack in the inner cable.



- c. You will need two 2mm allen wrenches to remove the brake levers from the end of the aerobars.
- d. Using two 2mm allen wrenches as shown below loosen the brake lever mounting bolts by turning both wrenches counterclockwise (when looking onto the head of each screw) The two screws fit into one another.



Once loosened remove them by hand. Be careful to retain both screws for re-assembling the levers. The blue coating on the smaller screw is a special screw lock finish and should not be cleaned or removed. The amount remaining on the bolt should be sufficient for reassembly.



Once the 2 piece brake mounting bolt has been removed gently ease the lever forward from the housing 7-10mm to expose the lever pivot hole. Take care to retain the two nylon bearing washers from each side of the brake lever pivot hole. Keep these parts in a small bag along with the two piece brake mounting bolt as they can be easily lost and will be required when replacing the brake levers. The left and right sides of these parts are interchangeable but the brake levers are not so insure that you mark the levers left and right so that you can replace them on the correct side when reassembling.



Now remove the brake lever fully from the housing extending the cable using the 0.5 to 1 inch of slack provided when you loosened the cable in the caliper in step 1. At some point the cable ferrule on the tip of the cable on the caliper end will prevent you from pulling the cable further. Align the cable with the slot in the lever and by applying gentle pressure with your thumb push the barrel tip of the cable end sideways out from its position in the brake lever.



The brake lever should now be free from the Ventus bar and can be kept in a safe place for the remainder of the process along with the two piece brake mounting bolt. and the two white nylon pivot washers .



Push the brake cable back into its housing hole so that the barrel is between the “ears” of the brake mounting points to ensure that the cable and cable barrel does not obstruct the grip removal and replacement process.

2. Remove both the old grips from the bar. Please note that you DO NOT have to remove the aerobar from the bicycle in order to complete this repair. Make sure your bike is held upright in a bike stand or in some other fashion so that the bike will not fall over during this repair. Insure that you do the gluing in a well ventilated room while the temperature of the bars and the air is between 65°F (18°C) and 82°F (28°C) and that the air is not damp.

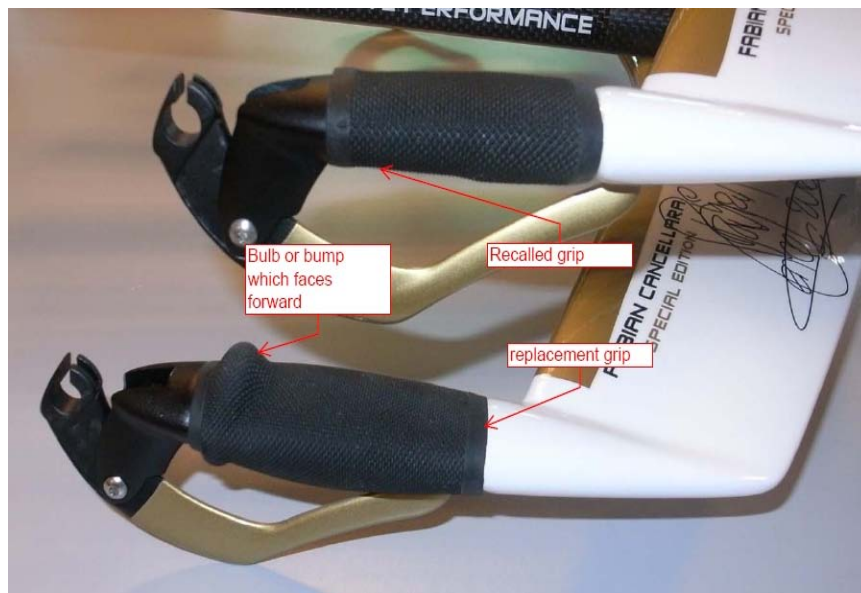


Once removed from the bar discard the old grips.



3. ensure that the 3T repair kit contains all the parts as shown in the picture below; namely 2 alcohol prep pads, two new Ventus grips, sandpaper and a 0.07oz. tube of Loctite 401

adhesive. You will only need about ½ of the adhesive in the tube to correctly glue the two new grips to the bar. (¼ of the tube for each grip) DO NOT use too much adhesive.



4. Do NOT reuse the old grips. Only use the new grips provided. The new grips have a bump or “bulb” molded into the front of the grip (the part that faces forward once installed).
5. Remove the old rubber grips by hand (do not cut them off) and lightly abrade the grip area with the provided sandpaper. Do nothing more than take the sheen and or old grip, tape or glue residue off the area to be covered by the grip.



6. Rinse the grip area well or if the bar is still attached to the bike wash the sanded area thoroughly with a clean wet rag or paper towel to insure that all sanding dust and residue are gone so they will not affect the gluing.



7. Dry thoroughly with absorbent cloth or paper towel.



8. Clean and degrease the abraded area of the bar and the inside of the rubber grip using the alcohol wipe.



Once these surfaces have been degreased avoid all contact between them and your hands.

9. Insert the new grips and fit them on the bar.
  - a. Warm the grip gently in your hands or using a hair blow dryer for a few minutes to ensure it is supple.



- b. Ensure the grip bulb (or bump) end is closest to the brake lever mount). Also make sure that the larger front facing bump faces upwards and the smaller bulb downwards. Gently squeeze the grip and insert the brake lever mounting into the plain end.



- c. Take care not overstretch the open ends of the rubber grip as this may cause them to split. Push from the bulb end of the grip easing it over the brake lever mounting and onto the handle area.



10. Once pushed into place as in the photo above you are ready to begin the gluing. Read the supplied Loctite instructions on handling the adhesive carefully before removing the cap. The instructions are also available at [www.thenew3t.com/ventusrecall](http://www.thenew3t.com/ventusrecall).

- a. Ensure that the grip is positioned correctly on the handle and in the desired final position; once the adhesive has been added under the grip and its sets for more than 5 seconds you will not be able to adjust the position of the grip on the bar.
- b. Gently squeeze the bulb end of the grip away from the handle as depicted below.



- c. Insert the open end of the adhesive tube and gently insert 2-3 small drops of adhesive evenly round the circumference of the grip.



- d. Remove the adhesive tube and allow the grip to return to shape.
- e. Gently apply pressure to the outside of the grip working from the open bulb end toward the middle of the grip to work the adhesive evenly around the circumference of the grip.
- f. Promptly wipe any excess adhesive that may ooze out from the open end of the grip with the unused alcohol wipe before the excess glue has a chance to set or damage the finish on the bar. Be careful not to drip any glue on any other parts of the bar as it may damage the finish.
- g. Being careful not to overstretch the new grip, gently roll back 5-6mm (1/4 inch) on the non bulb end of the grip.



- h. Gently squeeze the grip to create an opening for the adhesive tube tip and insert the adhesive tube tip into the grip opening and gently insert 2-3 small drops of adhesive.



- i. Remove the adhesive tube and allow the grip to return to shape.



- J. Gently apply pressure to the outside of the grip working from the open non bulb (flat) end toward the middle of the grip to work the adhesive evenly around the circumference of the grip.
- K. Quickly wipe any excess adhesive that may squeeze out from the open or flat end of the grip with the extra alcohol wipe.

Allow the adhesive under the new grips to dry/cure in a well ventilated area for 1 hour before using the bar or bike. Once dry attempt to twist the grips. They should not rotate on the bar. If they do repeat the gluing process above and double the drying time. The humidity and temperature will affect the curing/drying time for the adhesive.

After having followed all the steps described, reassemble the brake levers on the bar. Gently pull the cable from the housing exposing the 0.5 to 1 inch of slack created by slackening the brake cable at the caliper in step 1



Align the cable with the small slot on the side face of the brake lever, align the barrel with its axis parallel to the axis of the hole on the lever and insert the push the cable barrel into the lever hole (the opposite of the way you removed the cable end from the lever).



Ease the cable back into the bar by pulling gently on the cable at the other end of the brake cable nearest the corresponding brake caliper. Lift the lever forward from the housing exposing the pivot hole sides, Re-insert the two white nylon pivot washers (retained when removing the levers) into the recesses in the sides of the brake lever, with the smaller side of the nylon washers facing the lever. Holding the washers in place slide the lever back between the two ears of the housing. Once inserted the washers should not fall out of the lever.



Align the pivot hole in the "ears" of the mounting with the pivot hole in the lever. Insert the larger pivot screw from either side.



Holding this screw in place carefully align and insert the second screw with the blue Loctite coating on the threads from the opposite side by turning clockwise by hand to engage the threads of each side together.



Applying finger pressure to the screw on the inside of the Ventus bar use a 2mm allen wrench to tighten the outer screw. Make sure they are tightened snugly and make sure you do not cross thread them.



Using a second 2mm allen wrench on the inside screw complete the tightening procedure by turning both wrenches clockwise (when looking on the head of each respective screw.) Essentially you will turning the wrenches in opposite directions from each other.



Squeeze the brake caliper and pull the cable slackened in step one back through the caliper cable clamp. Adjust the distance of the brake pads to the rim to achieve the desired brake adjustment. Pull the cable tight and retain the tension while tightening the caliper cable clamp bolt using a 5mm allen wrench, (or refer to brake caliper manufacturers specification and/or instruction manual or the bike's owners manual) Check the satisfactory functioning of the brake before riding by pulling on the lever and ensuring that the brake pads securely grip the rim and that the brake lever is no bottoming out on the Ventus bar (you should have at least **Xmm** of space between the lever and the bar when brake lever is fully squeezed). If in doubt refer to the brake caliper manufacturers specification.



Repeat the reassembly process for the other side.

Test ride the bike in a safe traffic free flat area and ensure that the brake levers are operating properly and are able to stop the bike as before. Also ensure that the grips are not slipping by trying to twist them.