



Tubeless Tape and Presta Valve Installation Guide



Tools and Supplies:

- Scissors
- Tubeless tape
- Presta valve
- Straight pick
- 4.5 to 5.5mm diameter Phillips screwdriver or ball nosed Allen wrench
- Paper towel(s) or soft and thin microfiber cloth
- Isopropyl alcohol wipe (or other cleaning medium)

Please wear safety glasses and other appropriate personal protective equipment as it applies to the task being performed. Safety first!

Instructions:

Step 1: Determine the correct width of tubeless tape. At Scalar Wheels, we recommend choosing a width that is 2-3mm wider than the internal width of the rim. This is to account for the rim bed geometry that the tape will contour to once installed. In this example, our internal rim width is measured at 26mm, so we will be using 28mm wide tubeless tape.



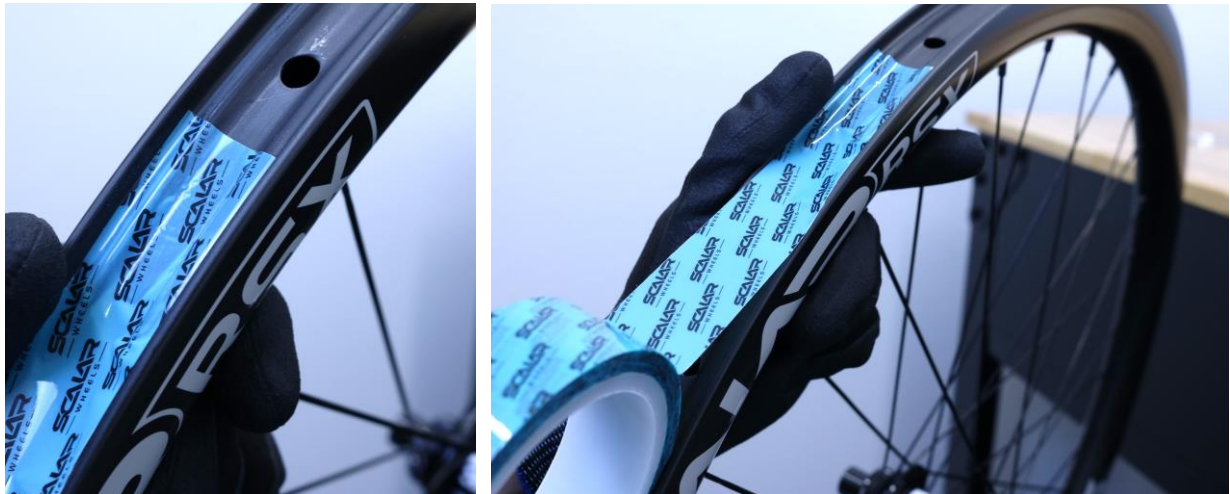
Step 2: Clean the rim bed and any surfaces that the tape will be touching. We recommend using isopropyl alcohol wipes, but other cleaning mediums may work as well. Ensure the rim bed is free of debris and dry before applying the tubeless tape.



Step 3: Remove the tape from the box and cut off the starting tab (white tab shown in the photo below) with scissors.



Step 4: Begin by locating the valve hole and back-tracking by about five inches on the rim. Start the tape on the rim bed, ensuring it is centered and being applied back in the direction of the valve hole. Press firmly, starting at the center and working towards the two sidewalls. Work out any air bubbles. The first few inches of the application can set the tone for the rest of the application. Take your time and apply the tape in a careful and diligent manner.



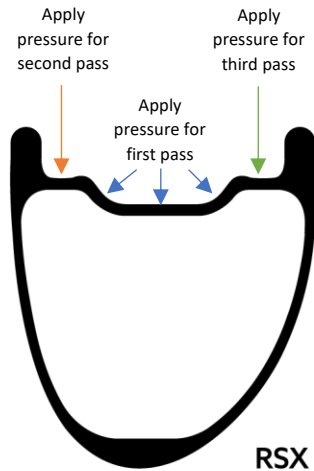
Step 5: Continue to work the tape around the rim, passing the valve hole. Work out as many air bubbles as possible along the way (a few small air bubbles after the tape is applied will not be detrimental to the tape's performance). Apply pressure from the center of the rim bed and work your way up to the two sidewalls as you go. The tape should be contacting all of the rim bed's surface area after it is applied.



Step 6: Once the tape has reached its starting point, continue working the tape around past the valve hole once again. Once the tape is approximately five inches past the valve hole, cut the tape and press the end down firmly to seal the tape on the rim. We like to cut the end of the tape at a 30-45° angle. There should be about a 10 inch long section of tape around the valve hole that is overlapping, two layers thick. The remainder of the tape only needs to be one layer thick.



Step 7: Now that the tape has been applied all the way around the rim, it is time to work out remaining air bubbles and ensure the tape is stuck to the surface area of the rim bed. It is easiest to perform this task with a folded paper towel or thin microfiber cloth. The towel will slide over the tape as you apply pressure with your hand. Take the folded paper towel or microfiber cloth and apply pressure in the center of the rim bed. Work your way all the way around the rim and work out as many air bubbles as possible. A few small air bubbles after the tape is applied will not be detrimental to the tape's performance. Now repeat this process two more times, but now apply pressure on the two sections of the rim that the tire will seat on. This step is very important to prevent sealant and air from getting under the tape when you inflate your tire for the first time.



Step 8: Now it is time to install the presta valve. Using the pick, locate the hole location from the bottom side of the rim and make a small indentation in the bottom of the tape.



Step 9: Return to the top side of the rim and fully puncture the rim tape through the indication you made in Step 8. The pick should line up with the valve hole in the rim.



Step 10: Using a 4.5 to 5.5 mm diameter phillips screwdriver or ball nosed allen wrench, slowly enlarge the hole made by the pick. Other tools may also be used. The goal here is to make a 4.5 to 5.5mm diameter hole that the valve can push through.



Step 11: Disassemble the valve, laying out the stem, o-ring, nut, and cap.



Step 12: Push the valve stem through the hole and snug the nut over top of the o-ring. Tip: apply a light amount of pressure on top of the valve (the side that is interfacing with the tape) as you snug the valve to help the rubber boot conform to the tape and rim. The nut should be firmly snug with your fingers, but do not over-tighten with tools.



Step 13: Congratulations! You've just set your rims up for tubeless tires. Take a second to check and admire your work. Once you're ready, mount your tires and add 2oz of sealant. Tip: Once the tires are inflated with sealant, shake them up and down, and side-to-side, as you rotate the rim to help the sealant saturate into any of the internal crevices. Take your bike for a short ride for gratification and to help the sealant coat all of the internal surfaces.



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