

V2 AERO 150 TIRE STATION INSTRUCTIONS April 2010

The Tire station shown in figure 19 should be mounted on a bench **as close to the edge as possible**. The Tire Station must be securely fastened to the work bench via the 4 screw holes. For tire lubrication purchase some Murphy's Vegetable Oil Soap, or any other good tire lubricant, and a small brush.

REMOVAL OF THE TIRE AND TUBE

1- If the tire is inflated remove the air by pressing the valve as shown in figure 1.

2- Mount the tire to the Tire Station with the **valve stem facing down**, and with the long 6 mm bolt with the black spacers fasten the wheel assembly to the station by hand threading the bolt into the female receptacle at the bottom of the Tire Station as shown in figure 2. When the tire has been mounted on the rim for a long time it has a tendency to stick to the rim. To make it easier to remove the tire with the tire irons we first want to loosen the tire from the rim. Mix some water and Murphy's Oil Soap, or other tire lubricant. 3- Lift the bearing Support Platform and insert the 3/8" bolt so the bearing support platform is vertical. See Figure 4. With the bearing pushing the tire away from the rim, rotate the wheel 360 degrees. As you rotate brush the lubricant on the tire as shown in Figure 3. For best penetration, brush the lubricant onto the tire close to the bearing as you rotate the tire. Next remove the wheel and flip the wheel **so the valve stem is facing up** and repeat the procedure described above.

4- Insert the small tire iron between the rim and tire, approximately 3 inches from the valve stem. The rim has a stop surface for the bead of the tire. **Make sure the tire iron goes past the bead stop surface into the deeper portion of the rim**. Push the tire iron from the vertical position into the horizontal position, as shown in figure 5 and 6, locally lifting the tire bead from the rim. With one hand hold the small tire iron down as shown in figure 6 and insert the large tire iron, about 2 inches from the small tire iron, as shown in figure 6 and **make sure the tire iron goes past the bead stop surface**, then push the tire iron down as shown in figure 7 lifting the tire off the bead. Use your left hand, as shown in figure 7, to pull the tire up and reinsert the large tire iron about two inches away from the previous location and pry the tire open again. The bead on one side of the tire will now release and come off the rim as shown in figure 7. (You might have to reinsert the large tire iron again, some 2 inches from the previous location, to fully release the tire. When releasing the bead from the rim, do not move the tire iron too far from the previous release location or you could damage the tire or bend the tire iron.)

5- Now that the tire bead has been removed from one side of the rim it is very easy to remove the other tire bead. Rotate the tire so the valve stem is away from the edge of the work bench and insert the large tire iron between the tire and the rim as shown in figure 8 and with the tire iron fully inserted, so the 90 degree flange is up against the tire, push the tire iron up making sure the front of the tire iron is **between the spokes** and pry the tire off the rim as shown in figure 8. Remove the tire from the rim as shown in figure 9.

INSTALLING THE TUBE AND TIRE

6- Lightly inflate the tube and lubricate with talcum powder as shown in figure 10. Insert the tube into the tire as shown in figure 11. Next lubricate the tire beads the tire lubricant. Place the tire-tube assembly over the rim and insert the valve stem through the hole in the rim, as shown in figure 12. Push one side of the tire over the rim, about 2 inches away from the valve stem, as shown in figure 13. While pulling the tire towards you lift the bearing support platform, as shown in figure 14, pressing the bead of the tire beyond the edge of the rim. While pulling the bearing support platform, as shown in figure 15, place the 3/8 bolt into the slots, as shown in figure 15 and 16, so that the bearing platform assembly is firmly pressed against the tire. Next loosen the bolt slightly so the tire will rotate easier. With firm hands, pushing hard against the tire rim, rotate the tire as shown in figures 16 and 17 until the tire is seated on the rim. Remove the bolt assembly and wheel from the Tire Station. Next pull on the valve stem to make sure it is properly seated and inflate the tire.



FIG.1



FIG.2



FIG.3

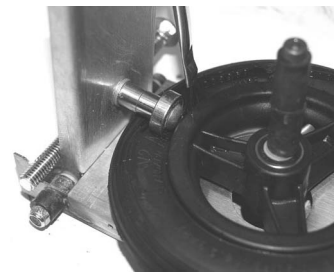


FIG.4



FIG.5



FIG.6



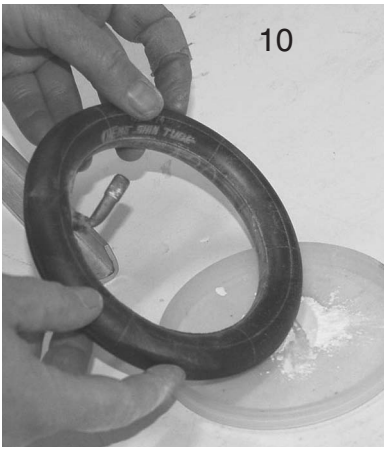
FIG.7



FIG.8



FIG.9



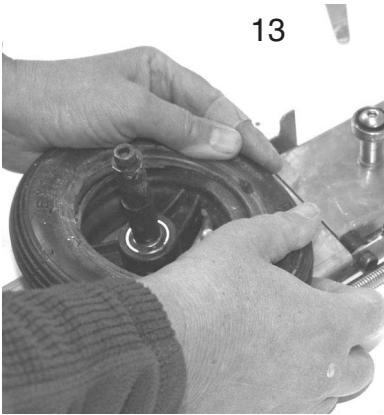
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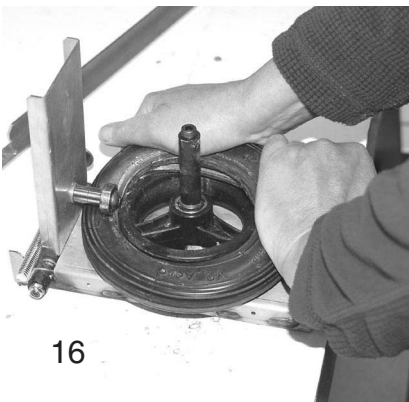
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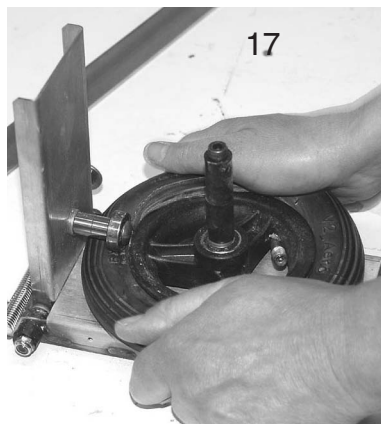
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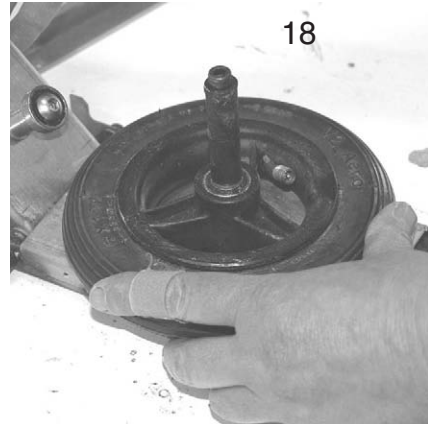
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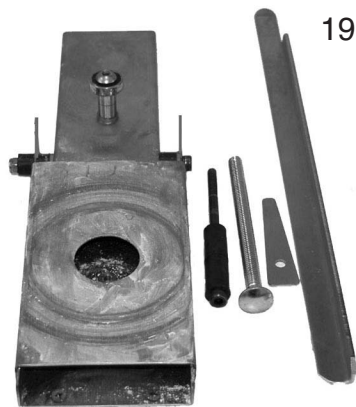
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**JENEX INC.
172 SOUTH ST.
MILFORD, NH 03055**

**PHONE 603-672-2600
FAX 603-672-5751**