



NOTE: If you did not purchase the Adhesive (518029) from Shopsmith, you must use 3M-Brand 1300 Rubber & Gasket Adhesive, or its equivalent.

# Bandsaw Tire Service Kit

With the Bandsaw Tire Retrofit Kit, you can replace the tire on your Shopsmith Bandsaw's upper or lower wheel. This should happen when one or more of these things occur:

- Blades have eaten away much of the rubber.
- Blades don't track straight due to misshapen or uneven rubber around the wheel.
- The rubber tire becomes impregnated with foreign matter, i.e. sawdust, metal and plastic cuttings, or oil.
- Long-term storage with the blade tension set tight, causing the blade to imprint the rubber tire.
- Rubber tire ages and cracks.

The following instructions describe how to remove the old rubber tire and install a new one. They are best performed with a wood bench vise. If you don't have one make sure the vise you do use doesn't clamp directly on the bandsaw wheel, because the direct pressure could damage it. Cushion the pressure with boards between the vise jaws and the wheel.

## Tools Needed:

- 5/32" Allen Wrench
- Medium screwdriver
- Utility knife
- Putty knife
- Electric drill & circular wire brush
- Wire brush (optional)
- Shop cloth
- 1/2" thick x 8" long dowel rod
- Paint thinner

## WARNING

**Make sure the bandsaw is uncoupled from its power source before performing the following steps. Also, for all safety and operation information, consult your Bandsaw owner's manual.**

## PREPARE THE BANDSAW WHEEL

1. Remove the bandsaw cover, and use a 5/32" Allen wrench to relieve the blade tension. Remove the bandsaw blade.
2. Determine which wheel you will be removing from the bandsaw:

### \* For the upper wheel:

- a. Use a screwdriver to remove the snap ring, which holds the upper drive wheel to the bandsaw. (See Figure 1.) Save snap ring.

555644 (with adhesive)  
518108 (without adhesive)



Bandsaw Tire  
Part No. 502694

- b. Remove and save the washer. (See Figure 2.)
- c. Remove the upper wheel, as seen in Figure 3, and clamp it in a bench vise.

### \* For the lower wheel:

- a. Remove the drive hub (or pulley) from the drive shaft then the bearing retainer from inside the machine. (The retainer is directly behind the wheel.)
  - b. Use a wood or rawhide mallet to tap the end of the drive shaft, to loosen the bearing in the frame, as seen in Figure 4. Pull the wheel free.
3. Use a utility knife to cut through the old tire, see Figure 5.
  4. Use a sturdy putty knife to work the rubber free from the wheel. (See Figure 6.)
  5. Pull the old tire from the wheel. (See Figure 7.)

Upper wheel

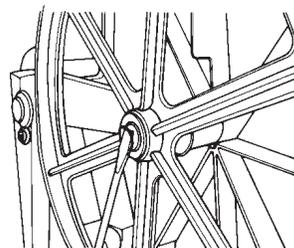


Fig. 1

Upper wheel

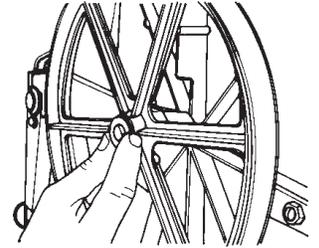


Fig. 2

Upper wheel

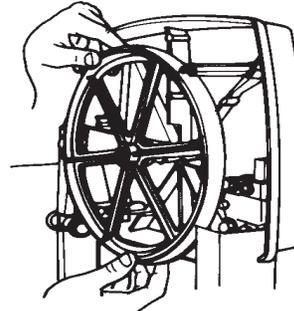


Fig. 3

Lower wheel

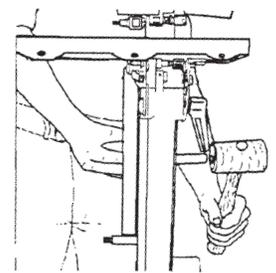


Fig. 4

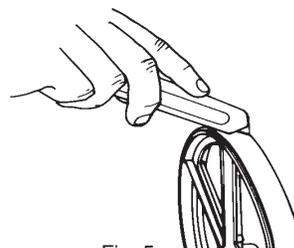


Fig. 5

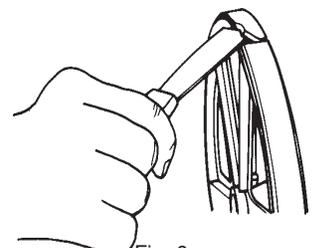


Fig. 6

6. Attach a wire brush wheel to an electrical drill. Use the brush to strip away rubber still adhering to the wheel. (See Figure 8.)
7. If needed, use a wire bench brush and/or the putty knife to remove the remaining rubber bits still on the wheel. (See Figures 9 and 10.)
8. Soak a rag with paint thinner and vigorously wipe the wheel, removing any old rubber bits and adhesive. (See Figure 11.) It is very important that the wheel is completely cleaned and free of all foreign matter.

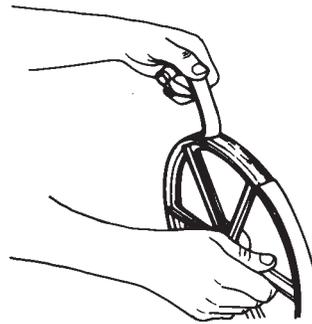


Fig. 7

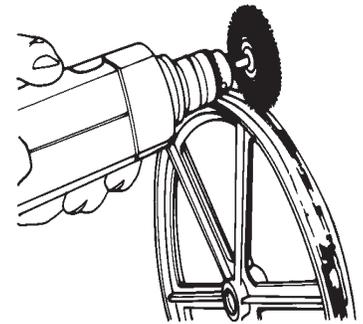


Fig. 8

### INSTALL THE NEW BANDSAW TIRE

9. Remove the wheel from the vise and work the new tire onto the bottom half of the wheel. Make sure that you place the rough surface of the tire to the wheel. The glue adheres more securely to the rough side. Re-clamp in the vise. (See Figure 12.) Work the top half of the tire onto the wheel. (See Figure 13.)
10. Once the tire is on the wheel, wedge a screwdriver between the tire and wheel, as illustrated in Figure 14. (The wheel is still clamped in the vise.)
11. While slightly lifting the tire from the wheel with the screwdriver, carefully inject adhesive on the wheel behind the screwdriver, as shown in Figures 15 and 16. Spread the adhesive evenly and take care to not use too much in one place.
12. **This step MUST be done within five minutes of Step 11.** Remove the wheel from the vise. Insert a 1/2" dowel rod through the axle of the wheel. (See Figure 17.) Roll the wheel so the adhesive, tire and wheel will become bonded to each other. The rolling action equalizes the tire's thickness and smoothness around the wheel.
13. Remoisten the shop rag with paint thinner, and wipe off any excess adhesive. (See Figure 18.)
14. Reinstall the wheel on the Bandsaw.

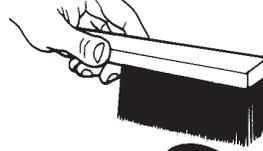


Fig. 9

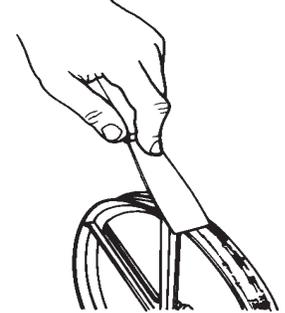


Fig. 10

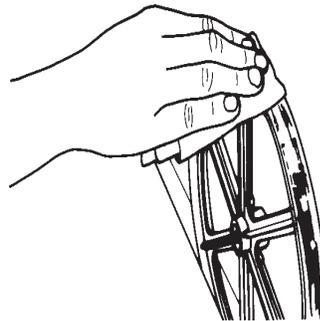


Fig. 11

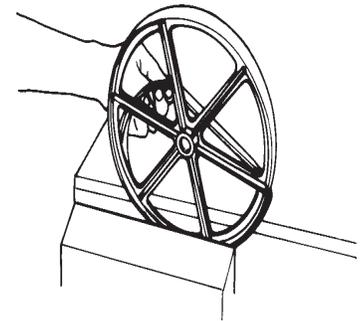


Fig. 12

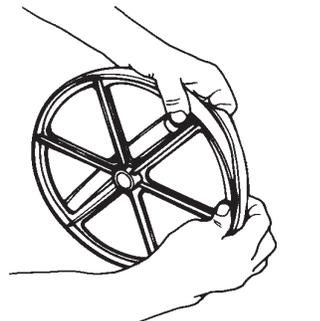


Fig. 13

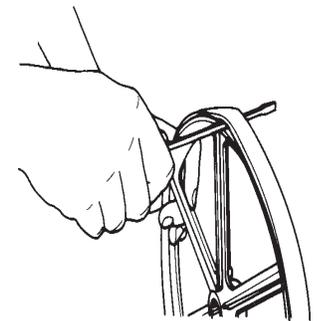


Fig. 14

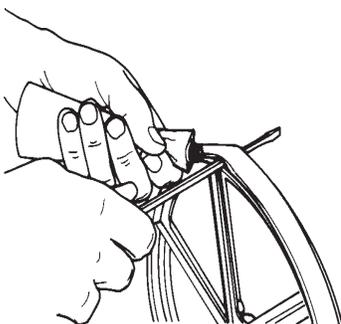


Fig. 15

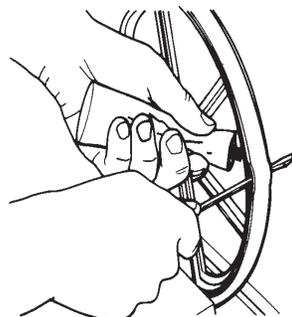


Fig. 16

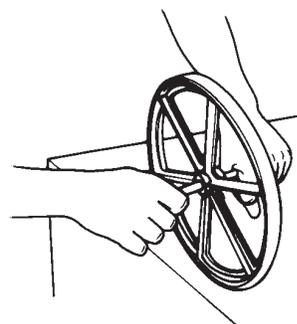


Fig. 17

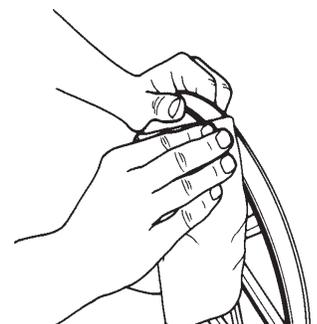


Fig. 18



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