

364 Multitool

Technical Tips

Congratulations on your recent purchase of the 364 Multitool. You will find the Multitool to be one of the most versatile and useful tools in any workshop.

Follow the assembly instructions carefully while fitting the 364 Multitool to your Grinder or Motor.

Occasionally there may be a need to fine tune the Multitool to ensure the belt tracks accurately.

As the Multitool 364 is sold as a universal attachment kit it is not always possible to have each and every Multitool set up to run at its best straight out of the box. There are numerous "fine tuning" adjustments that can assist with setting up the Multitool to work correctly.

Some Tracking problems are often caused by:

- Belts of differing quality. The bias or direction of the cloth backing can contribute to tracking problems, as can the join in the belt . We recommend you always use quality abrasives belts such as 3M.
- Incorrectly adjustments on the Multitool.

Before you proceed with any other adjustment on the Multitool:

- Ensure that all aspects of the set up instructions have been completed.
- Drive pulley truing.
- Idler arm alignment.
- Initial tracking set up.

If your Multitool has any of the following symptoms after test running the tool you may need to follow the fine tuning tip below.

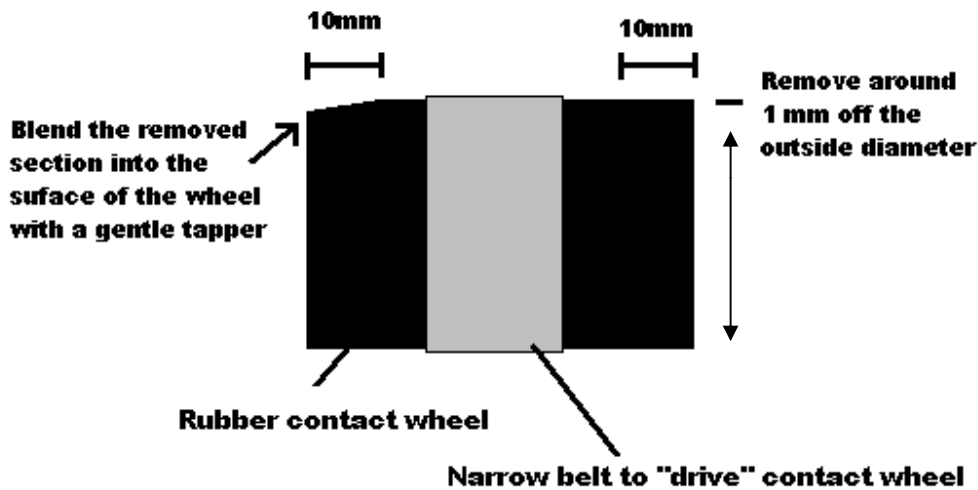
SYMPTOMS

1. Belt is "nervous" and will not stay on center
2. Belt darts either left or right when the tool is turned off
3. Belt darts either left or right when the tool is turned on.
4. Belt drifts left or right when loading up the belt with a work piece.

POSSIBLE SOLUTIONS

If the belt is "nervous" and will not stay on center, try the following.

- Object: To put a slight crown on the rubber contact wheel.
- Action:
 1. Fit a narrow belt to the 364, ideally you can use a 2" wide belt or use an old 36" belt and "rip" a narrow strip off it by cutting with a sharp blade through the taped joint and separating the belt into a narrow strip.
 2. Fit the narrow belt in the center of the rubber contact wheel and turn the tool on.
 3. The outer edges of the rubber contact wheel should be exposed.
 4. With a medium metal file remove equal amount of rubber from the rubber contact wheel with it rotating. Ensure you "blend" in the removed section into the surface of the rubber contact wheel with a gentle gradient. Be careful to remove equal amounts from the left and right hand side of the belt as per fig 1.



Use medium file to remove a small amount of material from the



Figure 1

POSSIBLE SOLUTIONS continued...

If the belt "darts" or "drifts" uncontrollably either running or when the tool is turned on or off.

Object: To ensure the Aluminum Drive Pulley and the Rubber Contact Wheel are running at 90 degrees to the drive shaft of the Grinder or motor.

Action: Check and adjust alignment of the Tensioner assembly.

1. If you have followed the Assembly Instructions, the Aluminum drive pulley should be running true even when spun by hand. If not, revisit the instructions and true the drive pulley.
2. Ensure the belt is installed and tensioned as it would be when the tool is in use. Also, ensure the belt is not hanging over the outer edge of the contact wheel. This area will have a straight edge place on it and will not be accurate if the belt interferes with the straight edge.
3. Without the cover plate installed on the drive pulley, place a straight edge along the outer surface of the pulley.
4. Place a second straight edge along the outer edge of the contact wheel.
5. Check the alignment of the two straight edges as per figure 2. The two straight edges should run parallel.
6. Given that the aluminum drive pulley will be at 90 degrees to the shaft as it is fixed to the shaft, any adjustment must be made to the alignment of the contact wheel assembly.
7. The only place this can be done is via the main bracket / adaptor plate interface. See fig 3.

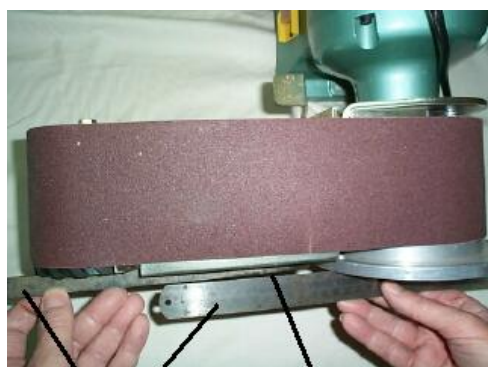


Figure 2

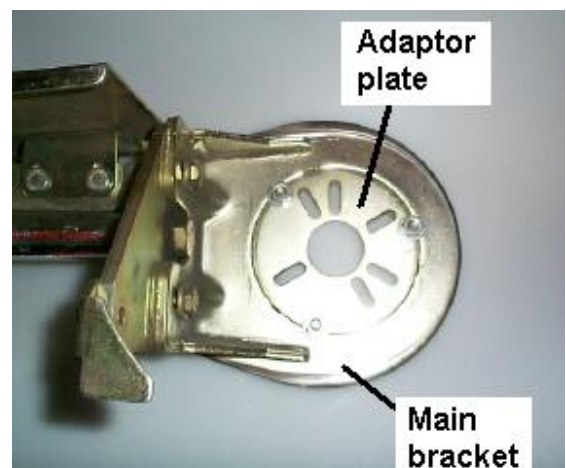


Figure 3

8. To adjust the Multitool to be square, loosen the three adjuster nuts with an open end spanner on the adaptor plate and break the seal on the taper.
9. Finger tighten the nuts and retighten the nuts in a sequence so as to pull the arm into a square set up. This is a trial and error set up and may take a few attempts to get the alignment correct. See figures 4, 5 & 6.

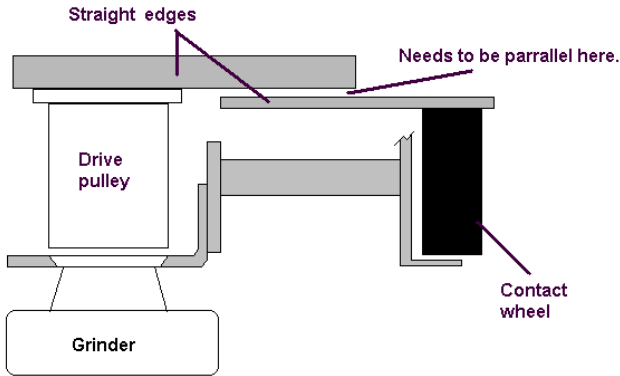


Figure 4

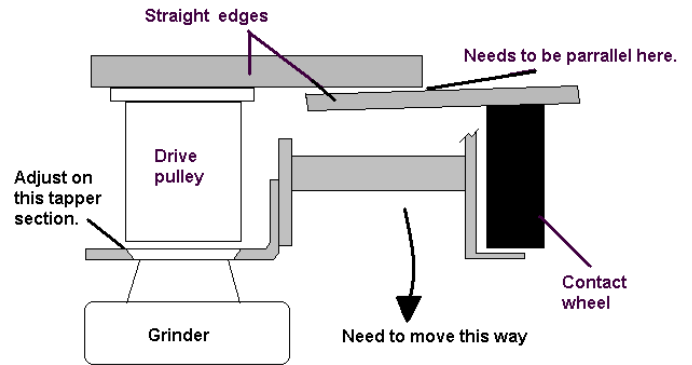


Figure 5

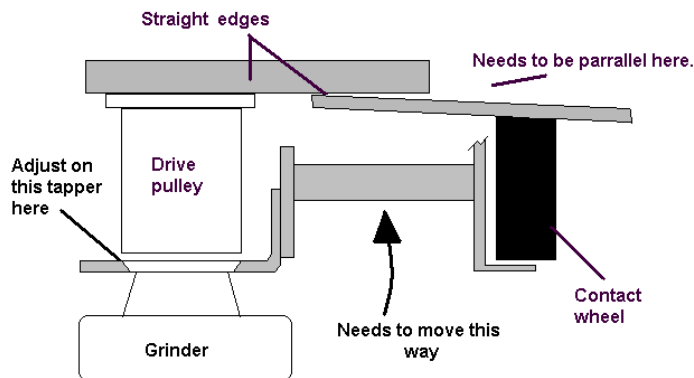


Figure 6

BELT CHANGING TIPS

With the width of the 4" wide belt, it can be difficult to remove the belt if the correct technique is not used.

To install the belt.

1. Ensure the arm is in the compressed and in the locked position.
2. Place complete belt over the front of the arm as in fig 7
3. Fit the belt over the rear drive pulley first. As fig 8
4. Fit the belt over the front contact wheel next. It may help to rotate by hand to install see fig 9
5. Finally, disengage the locking catch to start working.



Figure 7

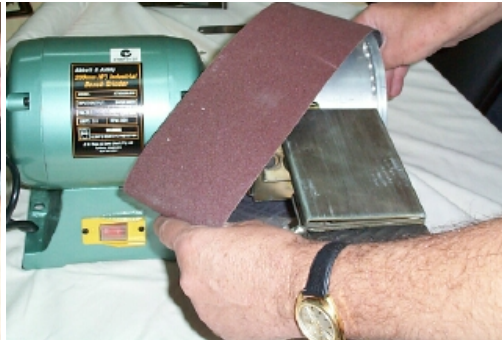


Figure 8



Figure 9

To remove belt:

Simple reverse the installation steps above.

For any further technical advise on setting up or using your Multitool 364 or for information on other Multitool products, please contact:

PA Products
PO Box 179
Bathurst NSW 2795
PH 02 6331 8881