Multitool

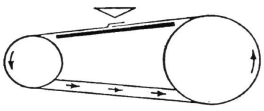
www.multitoolaustralia.com

362 Plus, Plus 8 & Utility Fitting Instructions

WARNING:

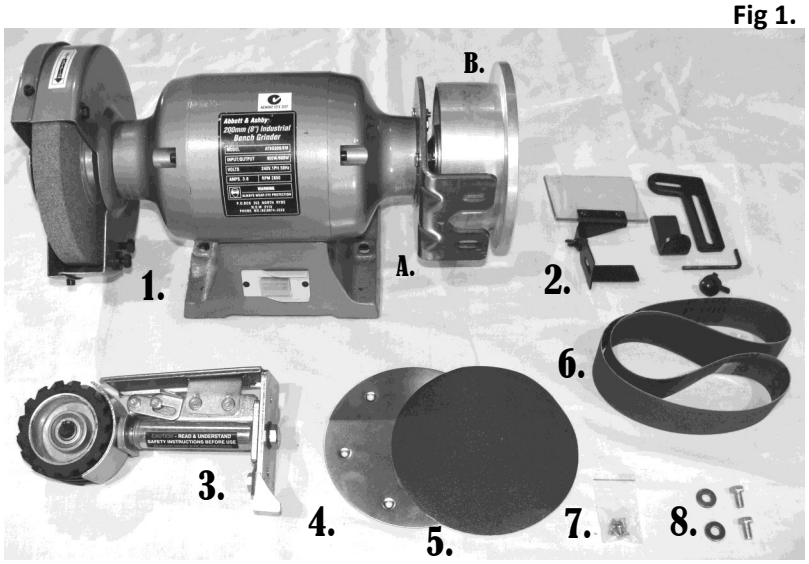
Read, understand and follow all instructions before operating the Multitool:

1. **ALWAYS WEAR EYE PROTECTION.** A full-face visor is preferred. Any Belt/Disc Grinder can throw foreign objects into the eyes
2. **AVOID CONTACT** with Belt or Disc. The abrasive belt when running is an aggressive cutting tool. Extra care should be exercised when using coarse grit belts because of their rapid cutting action.
3. **KEEP CHILDREN AWAY.** All visitors should be kept a safe distance from the work area.
4. **BOLT THE BENCH GRINDER** securely to the bench or supporting surface to stop it from tipping over or moving when in use.
5. **DO NOT MOUNT** the attachment protruding into walkways.
6. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
7. **ALWAYS WEAR A DUST MASK** to prevent dust inhalation when adequate ventilation or extraction is not available.
8. **DO NOT WEAR LOOSE CLOTHING** which may become entangled in the machine. Wear protective hair covering to contain long hair.
9. **ALWAYS HOLD** the work piece firmly when grinding and apply a light and steady pressure against abrasive disc or belt.
10. **ALWAYS GRIND ON THE DOWNWARD SIDE** of the grinding disc. Grinding on the upward side of the disc could cause the work piece to fly out of position, resulting in injury.
11. **DO NOT USE** belts that are damaged, torn or show signs of wear.
12. **ALWAYS INSTALL BELTS** with arrows in the back of the belts facing the correct direction. Belts and lap joints must be fitted facing the correct direction. See sketch below.



PART LIST:

Fig 1.



1. 6” (Plus) or 8” (Plus 8) Motor with the Main Bracket (A.) and Drive Pulley (B) attached.
2. Guards for grinding wheel, supplied with the motor.
3. 362 Tensioner Assembly.
4. 7” Cover Disc.
5. 7” Abrasive Disc.
6. 50 x 915mm Abrasive Belt.
7. 6 x Counter sunk screws to fit the Cover Disc (4) to Drive Pulley (A)
8. 5/16” Bolt and washer used to attach the Tensioner Assembly (3) to the Main Bracket (A)

Specifications

Multitool 362

Belt size 36” x 2” (915 x 50mm) Disc size 7” (178mm) Contact Wheel 3½ (89mm) dia. Suits most 6” (150mm) or 8” (200mm) bench grinders with minimum 1/3 H.P. (248W) and shaft sizes of 1/2” or 5/8”. **Rating** Continuous Industrial.

Belt Applications

Oxide Belts	COURSE FINISH	Use 40 to 80 Grit aluminium
	MEDIUM TO FINE	Use 100 to 80 Grit
	VERY FINE	Use 250 to 400 Grit
	MICROFINISHING	Use 3M Trizact 600 to 2000
	HEAVY GRINDING OR THIN SECTIONS	Use Zirconia Belts 40,60,80
ALUMINIUM	Always use belt grease to prevent clogging	
WOOD	Use Aluminium Oxide Resin Bond open or close cote 40,60,80,100,120 Gritsivi	
PLASTICS, GLASS CERAMIC, GENERAL LAPIDARY	Use silicon Carbide Resin Bond Close Cote	

WARRANTY AND CONDITIONS OF SALE

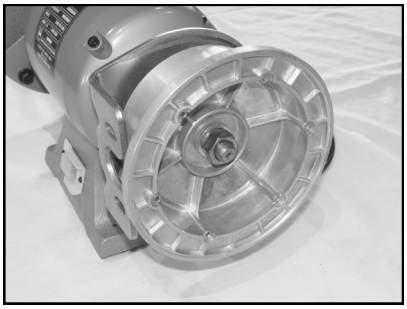
The words “us”, “we” or “our” refers to P.A Products or their authorized agent.
The warranty will only apply if the operating fitting instructions are followed. The warranty will not apply for a period of 3 years from the date of original purchase against any defect in our product, which can be proved, to our satisfaction to have been caused by faulty materials or workmanship. Our liability is limited to the cost of repairing or at our option, replacement of the defective goods or parts of the goods. We will not be liable for any defect caused by unauthorized repair.

INSTRUCTIONS TO FOLLOW FOR WARRANTY CLAIMS:
If warranty claim is made, we must be notified as soon as possible after assumed defect has become apparent.
Goods may only be returned for credit with the approval of PA Products in Australia

The customer must prepay all freight charges for returned goods.
We will contact the customer with an advice after inspecting the goods to determine with the customer what action should be taken in the circumstances.

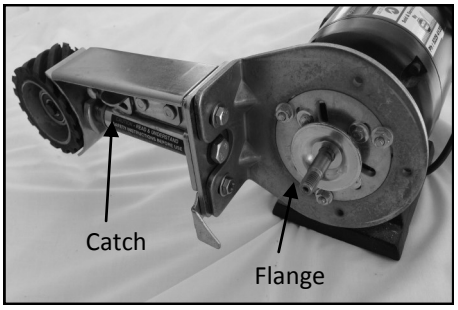
Assembly Instructions

Fig 2.



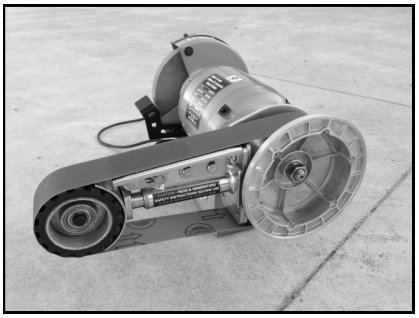
Unscrew the nut and remove the washer and Drive Pulley (Fig 2,B). Leave the flange in place. (Fig 3)

Fig 3.



Using the 5/16" bolts & washer (Fig 1, 8) attach the Tensioner Assembly (Fig 1, 3) to the Main Bracket (Fig1 /A). Tighten firmly so that it will allow for some movement, as it may need to be adjusted when tracking. (Refer Fig 7 text)

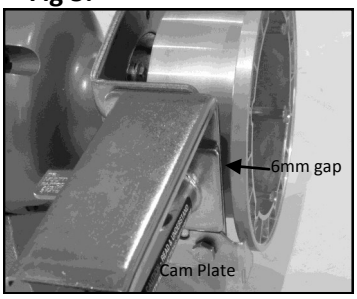
Fig 4.



Return the Drive Pulley (Fig 1/B) to the shaft next to the flange followed by the washer and tighten the nut.

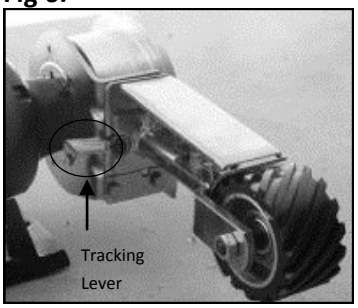
Note: The 6" motor (plus) has a 1/2" shaft size with a 1/2" metal bush inserted in the Drive Pulley. When removing the Drive Pulley from the motor if the bush becomes detached reinsert back into the Drive Pulley before reassembly.

Fig 5.



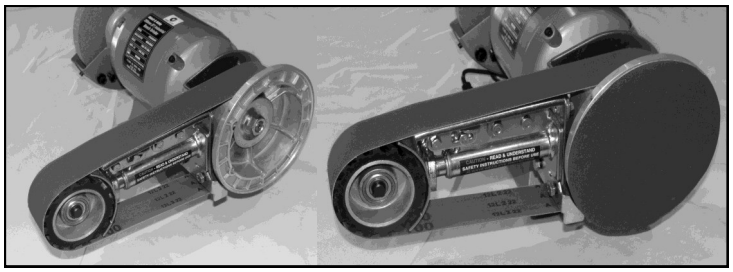
The Cam Plate of the Tensioner Assembly must now be set at 6mm (1/4") clear of the inside edge of the Drive Pulley.

Fig 6.



Set the tracking lever (above) to mid or horizontal position. Fit the belt and release the spring loaded contact wheel by lifting the catch. (Fig.3)

Fig 7.



Pull the belt over a few revolutions by hand. If the belt wanders towards the drive pulley (Fig 1. B.) tap the top of the cam plate in small amounts towards the drive pulley. If the belt moves towards the grinder tap the top of the cam plate towards the grinder.

When the belt runs evenly on the contact wheel tighten the two bolts holding the cam plate. Final tracking adjustments can be done with the tracking lever. Pulling the tracking lever down moves the belt to the left, up moves the belt to the right.

Fit the cover plate using counter sunk screws provided. Clean the face of the cover disc with a solvent (not a household cleaner) and fit adhesive backed abrasive disc provided.

Operating Instructions

BELT CHANGING

To remove the belt simply push down on the underside of belt to compress the tensioner assembly. Catch automatically holds slide in retracted position. When refitting the belt simply release the catch (fig 3) Always make sure the belt lap faces the correct direction. (diagram reverse side)

DISC GRINDING

Whenever possible remove the belt when using the disc facility. The disc grinding facility is a very useful and versatile part of the attachment. It is very useful for dressing small castings and components, patterns, models etc., often eliminating costly machining. Tool and cutter sharpening is a simple task and there is less chance of burning edges. With the addition of the table, lengths and angles are easy to adjust. A rubber cleaning stick should be used regularly to prevent the build up of wood resin. Three options are available in abrasive discs. 1. Self-Adhesive. 2. Fur backed – which must be used with an optional hook and loop backing pad. 3. Plain paper or cloth backed disc which must be attached with a contact adhesive. When changing a disc pad remove any remaining adhesive with a solvent eg acetone– Do not use household cleaners.

CONTACT WHEEL GRINDING, POLISHING AND SANDING

Using the front contact wheel avails the user of material removal many times faster than a conventional grinding wheel. The unique smooth cutting action is cooler, faster and safer than conventional grinding methods. A good example of one of the many uses is the smoothing of welds and casting blemishes prior to plating. Using the extremely fast and easy belt change, it is possible to go from a rough weld finish to a flat smooth polished finish suitable to chrome plate in only three belt changes. e.g. Remove rough weld with 40, 60 or 80 grit belt. Remove grinding marks – 240 grit belt. Change ground finish to smooth, brushed finish for plating – Scotchbrite super fine. Wood shaping and finishing can be done in a similar manner but belts should always be kept exclusively for wood, especially in the finer grades. A rubber belt cleaning stick helps prevent clogging on wood use.

FREE STRAPPING

Free strapping is a method of belt grinding, sanding or polishing where no backing is used behind the belt. It is especially suitable for round and contoured work and some sharpening operations. It is done on the underneath side of the belt opposite the platen. It is ideally suited to narrow belt widths as small as ½" (13mm). Belt grades of 180 to 400 are recommended because of the rapid cutting action of narrow belts.

PLEASE SAVE THESE INSTRUCTIONS