Multitool™

BELT AND DISC GRINDING ATTACHMENTS

Installation Instructions for Belt Grinder Model MT484-8

SAFETY INSTRUCTIONS

USER IS RESPONSIBLE TO HAVE WORKING KNOWLEDGE OF BELT GRINDER USAGE. MULTITOOL GRINDERS IS NOT RESPONSIBLE FOR ANY DAMAGES OR INJURIES INCURRED WHILE USING THE MULTITOOL PRODUCT LINE.

WARNING: To avoid mistakes that could cause injury, do not use the Multitool until you have read and understood the following:

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 pointing the correct direction. Belts with lap joints must be fitted facing the correct direction.

WARRANTY AND CONDITIONS OF SALE

The words “us”, “we” or “our” refers to Multitool Grinders or their authorized agent.
A.) The warranty will only apply if the fitting and operating instructions are followed.
B.) The warranty will apply for a period of 3 years for the Multitool Attachment and 2 years for Multitool Motors from the date of original purchase against any defect in our product 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.

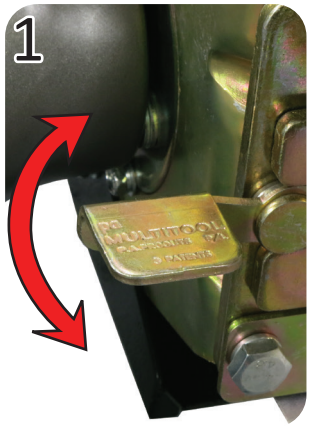
INSTRUCTIONS TO FOLLOW FOR WARRANTY CLAIMS:

1. If warranty claim is made, we must be notified as soon as possible after assumed defect has become apparent.
2. Goods may only be returned with the approval and RGA # from Multitool Grinders. Contact Multitool Grinders at 641-628-4253 or email us at sales@multitoolgrinders.com to obtain RGA# and return approval.
3. The customer must prepay all freight charges for returned goods.
4. We will contact the customer after inspecting the goods to determine what action should be taken.

OPERATING INSTRUCTIONS

BELT CHANGING
To remove the belt, simply push down on the underside of belt to compress the tensioner assembly. The catch will automatically hold the slide in retracted position. When replacing the belt simply release the catch. Make sure that directional belts are turning the correct direction.

BELT TRACKING
After securing your machine to a workbench or pedestal, install the belt and rotate the belt by hand to ensure it covers the rubber contact wheel entirely. Use the tracking lever to make minor tracking adjustments to properly center the belt on the contact wheel. To adjust left, move the tracking lever down. To adjust right, move the lever up (image 1). If additional adjustment is needed, center the tracking lever and slightly loosen the top bolt on the tensioner arm (image 2) . If the belt wanders towards the right, tap the edge of the platen in small amount towards the right (image 3). If the belt moves towards the left, tap the edge of the platen towards the left (image 4). When the belt runs evenly on the contact wheel, re-tighten the tensioner arm bolt and turn the grinder on to check. Final tracking adjustments can be done with the tracking lever.



PLATEN GRINDING (HORIZONTAL OR VERTICAL)
It is important that the platen is not set too high. If belt is deflected and rides up over the platen, this creates an undue strain on the grinder, especially when starting. If platen is not often used, it is better to adjust it slightly below the belt. A simple method to adjust the platen is to place a straight edge on top of the belt between the contact wheel and drive pulley and raise platen so that it just touches the under side of belt.

DISC GRINDING
Disc grinding is well suited to shaping and general deburring work. Grind parts on the downward side of the disc's rotation, so that dust and sparks are directed away from the operator's face. For grinding small parts, a secure work holding tool should be used to help prevent operator from contact with grinding disc surface. Abrasive disc grit should be matched to the amount of material intended to be removed. The more quickly material can be removed, the less heat will build up in the part being ground. This will also help preserve abrasive life. 80 – 180 grit discs are good for general deburring and chamfering operations. For heavy material removal use aggressive 40 grit abrasive discs.

CONTACT WHEEL GRINDING, POLISHING, AND SANDING
Always grind on the lower half of the contact wheel, so that dust and sparks are directed away from the operator's face. For grinding small parts, a secure work holding tool should be used to help prevent operator contact with the grinding belt surface. Abrasive belt grit should be matched to the amount of material intended to be removed. The more quickly material can be removed, the less heat will build up in the part being ground. This will also help preserve abrasive life. 80 – 180 grit belts are good for general deburring and chamfering operations. For heavy material removal use aggressive (24 – 40 grit) abrasive belts until desired shape is achieved. Finer grit belts should be utilized for removal of coarser grinding marks and polishing operations. Scotchbrite® belts are ideally suited for paint and rust removal operations.

SLACK BELT
Slack belt 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. Slack belt grinding can be performed on the underneath side of the attachment opposite the platen. Belt grits of 180 to 400 are recommended because of the rapid cutting action of this method of grinding.

MULTITOOL TROUBLESHOOTING

Vibration or wobble from the drive drum

Vibration is often related to the hardware, installation, or the grinder itself. It is best to remove the stone or wheel on the opposite side of the grinder to be sure that is not the source of the problem. Runout at the edge of the drum of approximately 1/16" is within the standard tolerances for this attachment. This small amount of runout has virtually no impact on how the attachment operates.

The most common issue we have found is that tightening the arbor nut can sometimes cause the drum to wobble. You may notice that as the nut is tightened, runout increases. It may be necessary to use a soft face mallet or hammer and block of wood to take out the bind created by tightening and true the drum on the shaft. Rotate the drum until the high spot is identified and strike the drum on the inside edge near the screw bosses for the cover disc. A substantial strike with a dead blow mallet is required to adjust runout. Light tapping will generally not have an effect.

For more information on how to perform the drive drum troubleshooting fix, scan the QR Code on the left or visit our website: **https://multitoolgrinders.com/pages/support/videos.html**

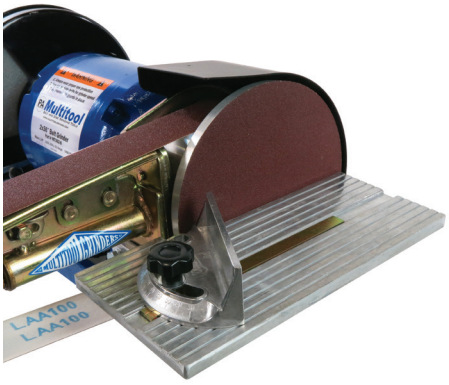
Belts for Model 484

Grit	Type	Abrasive	Part Number
40	Standard	Aluminum oxide	BLT48440-S
80	Standard	Aluminum oxide	BLT48480-P
120	Standard	Aluminum oxide	BLT484120-S
180	Standard	Aluminum oxide	BLT484180-P
240	Standard	Aluminum oxide	BLT484240-S
320	Standard	Aluminum oxide	BLT484320-S

ACCESSORIES

Tilting Pedestal and Workrest

The Multitool Bench Grinder Pedestal is a great way to mount your bench grinder at a comfortable working height on a sturdy platform. Using a quick-release handle, the stand top easily pivots 90 degrees to use the included workrest. The adjustable angle workrest gives a stable platform ideal for profile grinding on the front contact wheel.



Miter Table

Our most popular accessory! Table tilts 5 degrees up and 50 degrees down. The included miter gauge is excellent for squaring or adjusting an angle.

Abrasive Starter Pack

This convenient pack includes 1 each of: 40, 80, 120, 180, 240 and 320 grit aluminum oxide belts.

Rolling Pedestal Base

This rolling base mobilizes your pedestal-mounted tool. The heavy steel constructed base has tip-back casters, rubber pads on all four corners for stability, and durable textured black powdercoat finish.

Table Mount

Keep your work surface clear with this Vise and Grinder Table Mount. Attach above or below any work surface, while the receiver hitch style system allows you to change out different tools quickly. It can also be indexed 90 degrees for use with the Multitool Workrest.

Wall Mount

The wall mount bracket frees up valuable floor space and can be indexed 90 degrees or use with Multitool Workrest. Features a powdercoat finish and heavy steel construction. Makes shop clean-up easy!

For parts, tech support, belts, or discs contact Multitool Grinders at 641-628-4253 or sales@multitoolgrinders.com