Operating Instructions



UL9010 Ultra-Lok® Tool





Warranty:

Refer to website for warranty information: www.band-it-idex.com/warranty.html

NOTE: Any performance data published herein is based on laboratory tests, which cannot duplicate conditions that may be encountered in field installations. Such conditions may vary results substantially from those shown (such as abuse in handling and installation, failure to follow recommended handling and installation practices, abnormal environmental conditions, disregard of operating instructions for BAND-IT tools or non-recommended combinations of BAND-IT products). BAND-IT cannot be responsible for performance characteristics from such variables.

Safety Guidelines

When applying clamps, care should be taken to make certain that fingers are not in the way of the clamp being applied. Tensioning the clamp can be stopped immediately by releasing the trigger. Detailed instructions are in this manual and the operator is advised to read it and become familiar with operating the tool.

IMPORTANT: When clamping a hose end, remember that a tighter clamp keeps the fitting more secure, but excess tension could damage the hose. Fitting stem must have prominent barbs for proper retention inside the hose, but must not be sharp to prevent cutting into the hose. Hose, fitting and clamp must be compatible with each other and the environment used in. If in doubt, consult the hose or fitting manufacturer or call BAND-IT.

Clamping objects other than hose requires similar precautions.

CAUTION: Improperly tightened clamps may result in dangerous hose assemblies, which could cause injuries or property damage.

CAUTION: Abuse or use of a hose outside the manufacturers recommended conditions may cause it to quickly deteriorate and become a safety hazard. This could result in serious injury or property damage. Inspect and test hose assemblies frequently.

Contents

Assembled Tool



Parts List

- Assembled Tool
- Syringe Pouch
- Hex Key, 5/32"
- Hex Key, 3/16"
- Hex Key, 1/4"
- Manuals, Tool & Drill
- Carrying Case

Setup Instructions



Warning:

Always wear safety glasses when operating this tool. Keep both hands away from clamp being tensioned. Use common sense, squeezing force of 3/4" clamp can reach as high as 2 tons. Never attempt to clamp objects which can shatter, or otherwise cause bodily harm.

Note: Read safety instructions and operator's manual of the METABO electric drill. Check to make sure drill is properly set up for use with BAND-IT Ultra-Lok® tool as follows:

- Drill spindle has adapter clutch (BAND-IT # M03990) installed in place of standard drill chuck.
- Gear selector must be on slow (setting 1), and set as shown on page 4.
- Impact drive must be disengaged and set to (drill symbol).
- 1. Plug drill into standard 115V AC, 60 Hz outlet. If using and extension cord, a 14 gauge cord is suggested for lengths up to 50 feet, 12 gauge cord required if running longer than 50 feet, 10 gauge cord if running over 100 feet.
- 2. To mount drill onto BAND-IT Ultra-Lok tool: First use the two #10-32 x 3/8" screws supplied with tool to tighten tool adapter body to the tool. With adapter clamp on tool adapter body, insert drill into back of tool through the adapter clamp. Turn drill manually to desired position in relation to tool. Press the drill firmly into tool. Actuate drill if necessary to engage drill safety clutch (M03990) to tension screw. Tighten clamp screw while keeping the drill firmly pressed against the tool. To remove drill from tool: loosen the clamp screw and pull drill away from the tool. NOTE: When tightening the adapter clamp screw, safety clutch (M03990) must be engaged with tension screw inside of BAND-IT tool.
- This tool was designed for, and can only be used with BAND-IT Ultra-Lok® clamps. Do not attempt to use on any other type of clamp, it may damage tool. Note: An optional adapter can be purchased to apply 1/2" Ultra-Lok clamp, see pages 5, 6, and 8 of this manual.

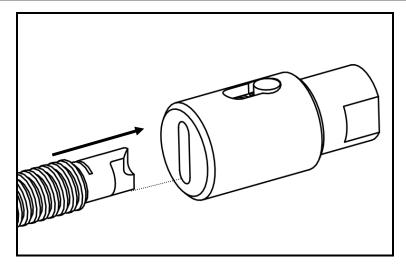
Use only with BAND-IT 3/4" Ultra-Lok Free-End and Preformed Clamps



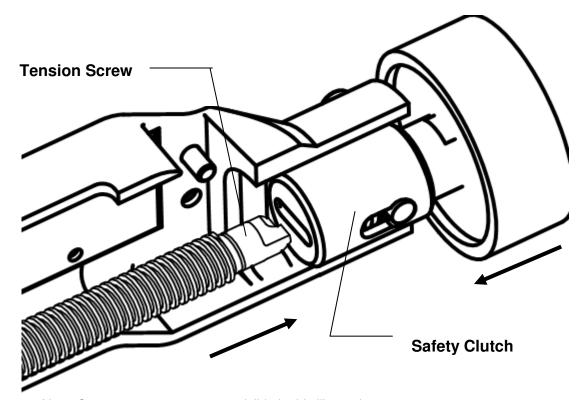
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NOTE: Alignment is critical for proper tool function.



Note: Some components are not visible in this illustration.

When installing the tool on the drill, be careful to align the end of the Tension Screw with the slot in the end of the safety clutch, as shown above.



Recommended Drill Settings:

(Speed-Torque)

	1/2"	3/4"
Single Wrap	C-2	D-2
Double Wrap	D-2	E-4
*Preformed	D-2	E-4





Speed Selector

NOTE: These torque settings are suggested settings only, individual tools should be adjusted for the clamping application.

*IMPORTANT: Larger sizes of preformed clamps (5" and up) may require a lower setting to avoid overstressing the lock and creating potentially unsafe assemblies. Inspect lock per instructions on pages 9-11.

Important: Changing the speed setting will alter tension output. Drill switch must be depressed fully by the operator to attain correct tension when installing clamps. Tension output may be somewhat different depending on condition and wear of internal components from tool to tool on same setting.

Pre-set tension is achieved when drill stops and on some models, may pulsate. Excessive pulsation (more than twice) will result in more tension applied to the clamp.

Use of Alternate Drills

CAUTION!

The UL9010 tool is designed to work mounted securely to the Metabo drill Model SBE 900 IMPULS. Use of any other drill may result in unsatisfactory performance, hazards to the operator and/or the tool, or unsafe clamps. Use of alternate drills must be approved in writing by the Director of Engineering at BAND-IT-IDEX, Inc. Disregard of this caution voids the warranty of the tool and releases BAND-IT of any and all liabilities arising from such misuses.

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Parts List



Quantity

1

1

1

1

1

1

Description

Handle Assembly: Includes Handle, Handle

Tool Head, Fin. UL

Cutter Blade, UL

Cutter Knife, UL

Cam, Cut-off, UL

Grip, and Pins

Gripper, UL

Tension Screw, Fin.

Tension Block, Mach., UL

Notes:

Apply Item 31 (Grease) to:

Item 4 (Cut off cam)

Item 3 (Cutter knife) at contact point with item 1 (Tool head)

Item 26 (Spring) before installation

Apply Item 32 (Grease) to:

Item 7 (Tension screw) threads and grooved end

Item 2 (Cutter blade) counter-bore only, after item 14 (bearing tip) has been installed.

Part Number

M00587

M09787

M08687

M08987

M09087

UL1219

M00987

M08887

Item

1

2

3

4

5

6

7

8

32

33

34

35

36

Tighten the following: Item 23 (#10-32 Screws) to 60 - 70 in-lbs. Item 22 (1/4-28 Screws) to 90 - 110 in-lbs.

Adjust Item 24 (Plunger) for positive detent action when item 6 (Handle) is actuated.

Part M09887, Shear Plate has two cutting edges. This part can be rotated to use the second edge prior to replacement.

9	M01787	1	Plate, Back, Cast/Fin.
10	M09187	1	Gripper Guide, UL
11	M02387	1	Plate, Release, cast/fin.
12	M00287	1	Roller, Cut-off, Fin.
13	M01388	1	Pin, .187 Dia X 1.50 Long, Fin.
14	M05387	1	Bearing Tip, Fin.
15	M06587	1	Ball, 1/4" Diameter
16	M02287	1	Tip, Load Bearing, Fin.
17	M04387	1	Tripper Bracket, Cast/Fin.
18	M07387	1	Body, Left, Finished, UL
19	M07487	1	Body, Right, Finished, UL
20	M07587	2	Wear Plate, Fin.
21	M05787	2	Screw, Socket Head Cap, 1/4 X 1"
22	J67287	4	Screw, Socket Head Cap, 1/4 X 1/2"
23	M06187	4	Screw, Socket Head Cap, #10-32 X 3/8"
24	M02487	2	Screw, Spring Plunger, 1/4-20
25	A33887	1	Spring, Compression, .180 X .813 Long
26	A53587	2	Spring, Compression, .300 X 1.00 Long
27	M01487	1	Pin, Dowel, 1/4 Dia X 1.50 Long
28	M08187	4	Washer, .128 ID X .238 OD
29	M08087	4	Rivet, Blind, .125 X .328 Long
30	M07987	2	Threaded Insert, #10-32
31	l16387	-	Lubricant, Super Lube w/ Teflon

Lubricant, Moly, Syringe

Shear Plate, 1/2", UL (Optional)

Shear Plate, 3/4", UL

Tool Adapter #1

Adapter Clamp

NOTE:

Part M09387, (Optional) 1/2" Shear Plate -Required replacement for #33 M09887 shear plate in order to install 1/2" wide Ultra-Lok Clamps

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1

1

1

C23199

M09887

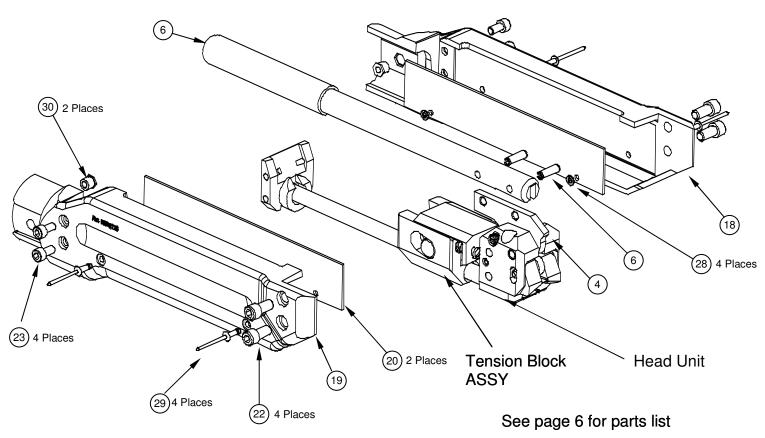
M09387

M07687

M08288

Troubleshooting





Troubleshooting

- 1. Lock slips down in buckle: Verify tightness of blade mounting screws. If lock on clamp is still not adequate, reduce tension on tool by setting torque control knob to a lower number or reduce speed of the drill. (See "Setting up proper tension")
- 2. Drill makes loud, rapid clicking noise: Make sure hammer drill setting is off and indicator is pointing to drill symbol. (Hammer symbol on selector knob pointing to back).
- 3. Drill makes whining noise when clamp gets tight: The drill is equipped with its own internal safety clutch. If this clutch disengages usually above torque setting 6, reduce torque setting and lubricate tension screw. Do not confuse this clutch with the coupling between drill and tool.
- 4. Safety clutch between drill and tool releases prematurely: Make sure tool is fully seated on drill and safety clutch is fully engaged with tip of tension screw. (Loosen clamping screw and re-tighten while pressing tool into drill). See page 4, if problem still remains, replace tension screw (BAND-IT # M00987).

Note: To prevent safety clutch wear, do not over-use. When tensioning clamp, let drill switch go as tension block nears its end of travel. Reverse drill and send tension block all the way forward for a second pull on the band.

5. If tool does not cut off on initial setting:

- Step 1: Pull trigger of tool after engaging cutter blade.
- Step 2: Increase torque setting slightly, and repeat tensioning band and engaging of cutter blade.
- Step 3: Repeat steps 1 and 2 until band cuts.

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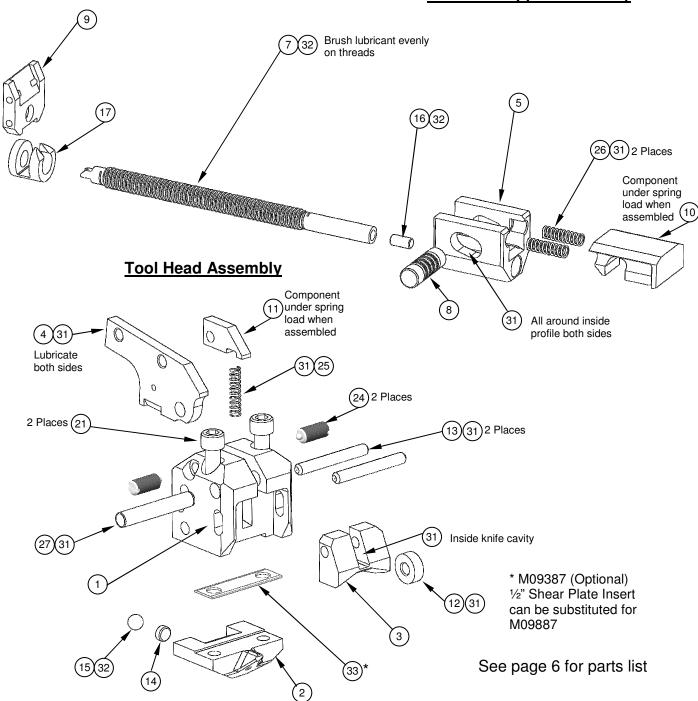
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ASSEMBLY INSTRUCTIONS



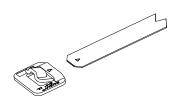
Tension Gripper Assembly



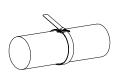
Clamp Application Free-End Clamps



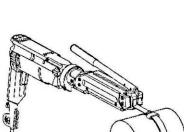
Warning: Always wear safety glasses when operating tool.



Break off an Ultra-Lok® 2. Free-End tie from the roll. Slide the buckle onto band with indented arrows buckle all the way onto buckle dimples at opposite end of tie.

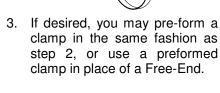


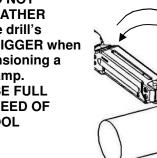
pointing in same direction and same side up. Slide band until it comes to a stop between the two



Wrap tie around object to be clamped. Insert the tie through buckle once for single-wrap or twice for double-wrap. Double-wrapped clamps have more than 3 times the loop-tensile strength.

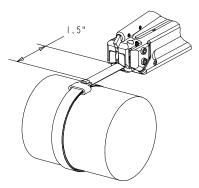






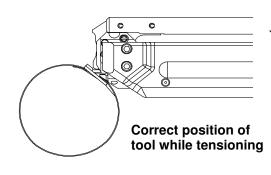
Push all the way forward to a solid stop. **DO NOT JAM** THE CUT-OFF **HANDLE FORWARD BEYOND INTENDED** TRAVEL **DURING OPERATION**

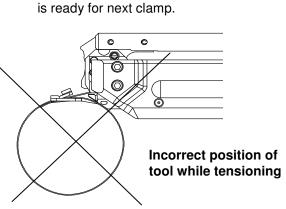
4. Position the clamp on the object you are clamping. Pull the wrapped clamp hand-tight. Slightly bend the tail up to keep the clamp in place.



Start 1.5" from buckle to ensure adequate tension screw engagement

Actuate drill until tension block is all the way forward against the tool body. Set drill to clock-wise rotation. With cut-off handle down as shown, insert clamp tail into tool head slot. Actuate drill until drill's built-in clutch disengages. If tension block comes near its end of travel, release actuator switch and reverse drill to pull more on clamp tail. Excessive use of disengaging clutch indicated by a loud ratcheting sound leads to premature wear of tension screw.





Pull the cut-off handle forward

to cut tail off and form a lock.

then return handle to the down

position. Reverse drill and feed

clamp tail out of tool. Do not

force tool against clamp; it may

result in a folded clamp tail.

Break away clamp tail (if

necessary) by bending it up

and down. Tap down buckle

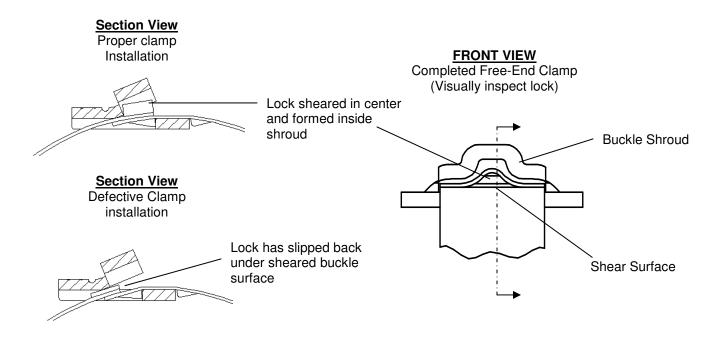
shroud to complete clamp. Tool

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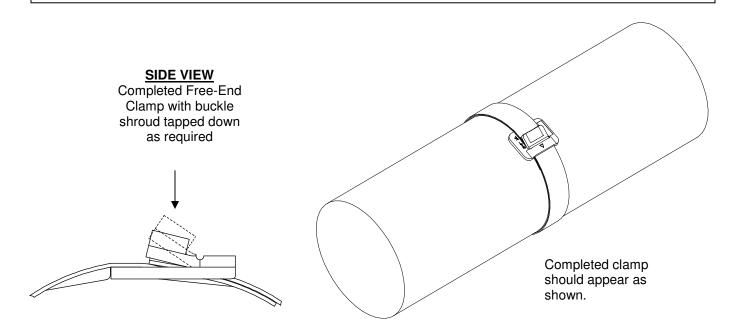
Clamp Application Free-End Clamps



Inspect buckle on completed clamp and tap down buckle shroud.



Important: Visually inspect lock formed in band as shown. If lock has slipped under the sheared surface of the buckle, remove clamp and install a new one at reduced tension by lowering the drill clutch torque setting.



Clamp Application **Preformed Clamps**

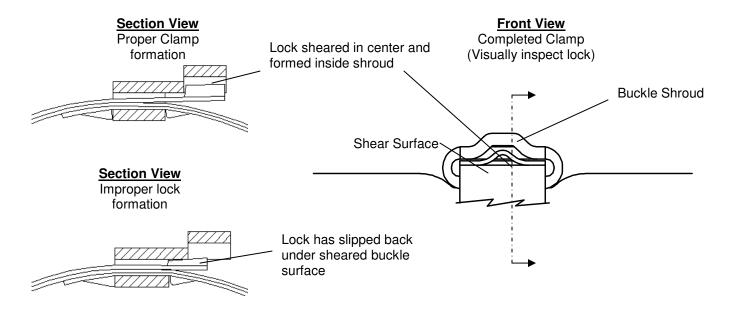


UL9010

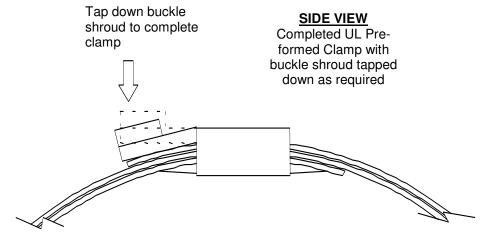
Place clamp in desired position on object to be clamped.

Follow steps 5 and 6 on page 9.

Inspect lock in buckle on completed clamp, and then tap down buckle shroud as shown below.



Important: Visually inspect lock formed in band as shown. If lock has slipped under the sheared surface of the buckle, remove clamp and install a new clamp at reduced tension by lowering the drill clutch torque setting.



When applying clamps on soft, thick-walled hose, tension clamp then wait a full 30 seconds. Clamps may be retensioned by squeezing the actuator switch on the power unit a second time prior to forming the lock and cutting the excess clamp tail. This allows hose to "settle" under the band of the clamp. This hose material attribute is called Cold Flow. Finally, complete clamp by tapping down the buckle shroud as described above.

Maintenance



Lubricating

Syringe

Reorder

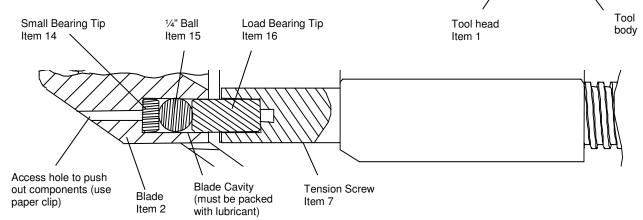
#C23199

1. Lubricate tension screw with molybdenum disulfide lubricant or equivalent approximately every 500 clamps. Make sure the tension block is all the way forward against the tool head. Insert tip of the Lubricating syringe into slot on top of tool body. Press the tip against the tension screw just behind the tension block and squeeze out approximately ½" long bead of lubricant. Remove syringe, and actuate tool without a clamp a couple of times to spread lubricant evenly on tension screw.

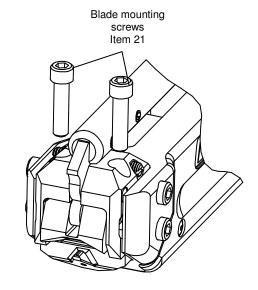
To order more lubricant, specify BAND-IT #C23199

2. Every 500-1000 clamps, depending on tension setting, inspect and repack front bearing with same lubricant. Turn load bearing tip and small bearing tip over for a new bearing surface.

Bearing Lubrication Detail



- 3. To gain access to bearing components: With the tension body already separated from the power drill, remove blade mounting screws (2 places) and slide blade free. Paper clip may be used to push bearing components out of blade. Wipe lubricant from all components and examine for wear. If ball or bearing tips appear heavily worn, replace with new parts. Note: 1/4" ball is made from hard tungsten carbide material, do not replace with regular ball bearing. (A smooth indention from ball in the bearing tips is normal)
- 4. To re-assemble bearing components: wipe blade cavity clean. Push small bearing tip into blade cavity. Apply lubricant to ball and push into blade cavity and fill remaining space with lubricant. Push load bearing tip firmly into blade cavity, some lubricant will be squeezed out. Re-attach blade to tool head, making sure that Load Bearing Tip extends into tension screw. While turning blade mounting screws into blade, push on blade rearwards. Tighten screws to approximately 120 in-lbs.
- 5. When replacing worn blade follow instructions above to properly reassemble bearing components.



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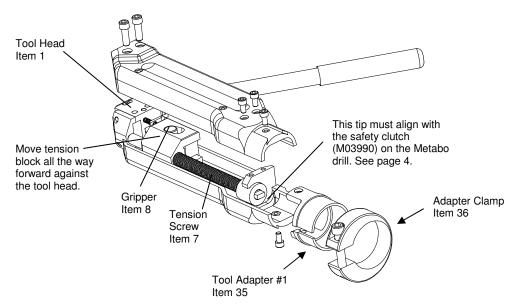
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Maintenance



UL9010 Ultra-Lok® Tool

6. To replace gripper: Make sure tension block is all the way forward against the tool head. Remove drill. Remove tool adapter body. Remove only one side of the tool body, not both. Slide gripper out sideways and replace with a new one. Reattach tool body side. Caution: Do not push or move tension block while gripper is out of tool.



7. To replace tension screw: Move tension block all the way back (away from tool head) using drill in tensioning mode (clock-wise). Remove Ultra-Lok® tool from drill. Remove the tool adapter body from the Ultra-Lok® tool. Remove blade and load bearing tip from tensioning screw (see bearing detail). Remove only one side of the tool body, not both. Grasp the smooth barrel on tension screw and pull all the way forward until tension block is against the tool head. If tension screw is stuck, use a punch and tap the center of the screw from the back end of the tool. Turn tension screw out of tension block. Lubricate new tension screw with Molybdenum Disulfide lubricant, or equivalent. Install new tension screw in reverse order, making sure that back end of tension screw extends well beyond the back end of the tension block. Push the assembly all the way back and extend the round portion of the tension screw through holes on the tripper bracket and back guide plate. Reinstall tool body side. Reinstall blade and tighten the blade mounting screws approximately 120 in-lbs. Reattach tool adapter body to Ultra-Lok® tool. Reattach tool to drill and drive tension block all the way forward.

Note: Drills needing repair must be forwarded to an authorized 'METABO' repair center in your area. Be sure to remove BAND-IT safety clutch (M03990) from drill.

METABO Drill is covered solely by the Metabo warranty as described in the Metabo literature. BAND-IT does not extend any warranty of any kind to the drill.

Optional 1/2" Tool Blade Change

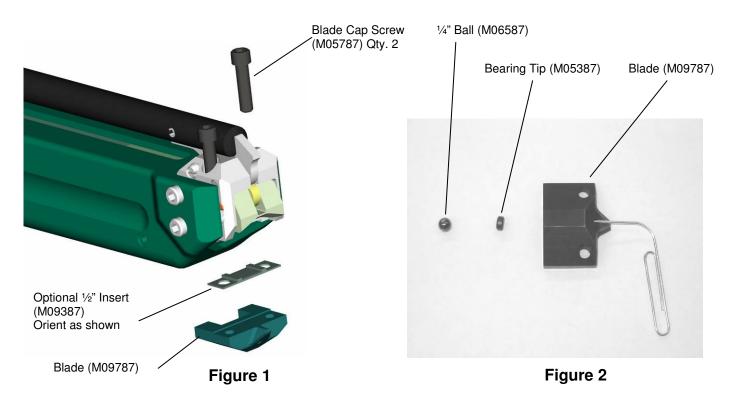


To change out the UL9010 tool to the 1/2" version, the following steps should be followed. *NOTE: Do not attempt to use 1/2" clamps with 3/4" head. (Adapter change-out: 3-5 minutes)

- Prior to separation from power drill, back off tension block assembly ½" from head unit. See page 7.
- Detach tension body from the drill by loosening the single tensioning bolt on the aluminum collar and separating the two sections.
- 3. Remove the blade from head by removing two cap screws (M05787) from the top of the head. It is not necessary to remove entire head from tool in order to remove blade. (Figure 1) Remove the 3/4" adapter plate from the blade.
- 4. Align the ½" adapter plate (M09387) with the blade (M09787) so that the guide is facing up. Incorrect placement will not allow bands to be inserted into the tool. (Figure 1)

Note: To convert tool back to 3/4", replace 1/2" insert with 3/4" insert (M09887) and follow same instructions. Be sure to retain unused shear plate for later use.

- 5. Attach the blade and ½" adapter plate onto head using the two previously removed cap screws. These cap screws must be tight to assure proper cut-off of clamp tails.
- 6. Re-attach drill to tension body making sure the drill and tension body are properly aligned, and tighten the single adapter cap screw located on the aluminum collar.
- 7. This tool is not designed to work with traditional band and buckle designs. Must use only BAND-IT Ultra-Lok® clamps.



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