

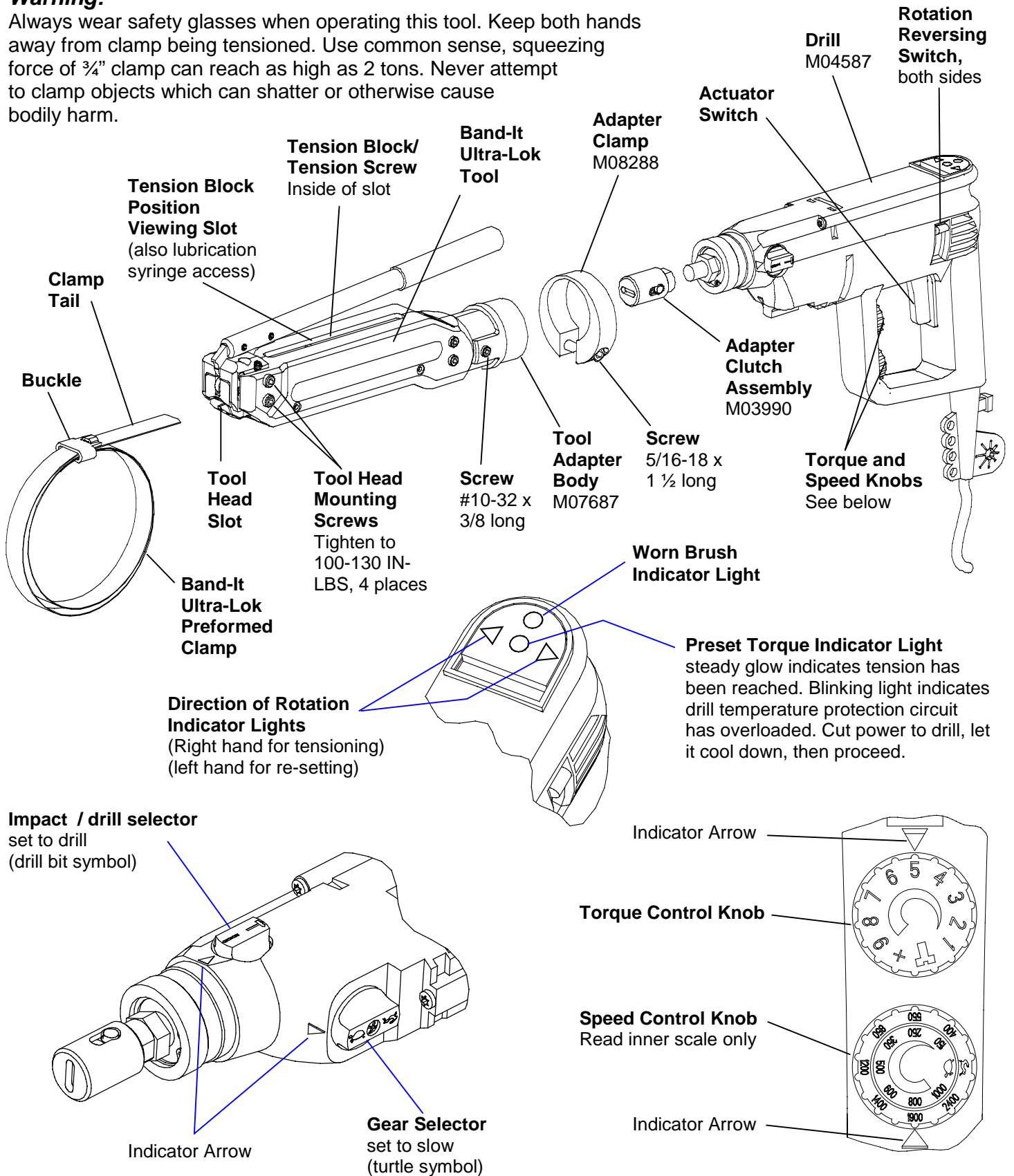


**BAND-IT**<sup>®</sup>  
THE CLAMPING EXPERTS

# UL9010 Electric Ultra-Lok Tool Operating 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.





1. Read safety instructions and operator's manual METABO electric drill. Check to make sure drill is properly set up for use with Band-It Ultra-Lok tool as follows:
  - Drills spindle has adapter clutch (Band-It #M03990) installed in place of standard drill chuck.
  - Speed gear selector must be on slow (turtle setting).
  - Impact drive must be disengaged (twist drill symbol pointing forward).
3. To mount drill on tool: Use the two #10-32 x 3/8" screws supplied with tool to tighten tool adapter body to the tool. Make sure that tool adapter body's slit side is facing downward from 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 to tension screw. Tighten the 5/16-18 x 1 1/2" screw while keeping the drill firmly pressed against the tool. To remove drill from tool: loosen the 5/16-18 x 1 1/2" screw and pull drill away from the tool.
3. Plug drill into standard 115V AC, 60 Hz outlet, in the U.S.A. Rated Input = 8 amps (1010 watts).
4. This tool was designed for, and can only be used with, Band-It 3/4" wide Ultra-Lok clamps. Do not attempt to use on any other type of clamp, it may damage tool.
5. Setting up proper tension:
  - Recommended setting for most assemblies – torque number '5' @ 800 rpm
  - Usable maximum (for extreme hose types) – torque number '7' @ 800 rpm
  - If tension output of tool is too high, set drill to a lower torque number and/or speed.

Important: Changing speed setting will alter tension output. Drill switch must be depressed fully by the operator to attain correct tension when installing clamps. Use speed control wheel's inner scale (turtle symbol) to set speed. Tension output may be somewhat different from tool to tool on same setting, depending on condition and wear of internal components.

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 or fitting manufacturer or call Band-It.

Clamping objects other than hose requires similar precautions.

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

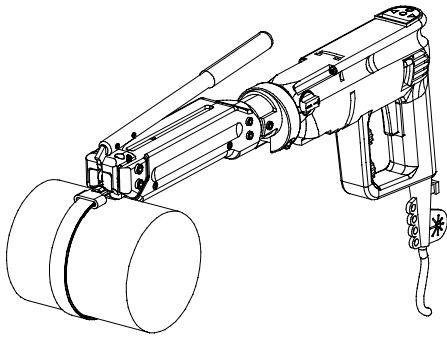
**Caution:** Abuse or use of a hose outside the manufacturers recommended conditions may cause it to quickly deteriorate and become a safety hazard. This could result in serious injury or property damage. Inspect and test hose assemblies frequently. Repair or replace at the slightest sign of damage or deterioration.

Using correctly sized clamps (diameter) will, in most cases, eliminate the need to pull on clamp tail more than once. Tension block moves approximately 5". On occasion, if needed, large size clamps can be installed by taking several bites (clamp tail feeds out through back of tool). Position of tension block, containing gripper, can be monitored through viewing holes just under cut-off handle. Tool features built-in, disengaging mechanism to prevent tension screw from jamming up. Excessive use of this feature will wear clutch mechanism and/or tension screw out prematurely.

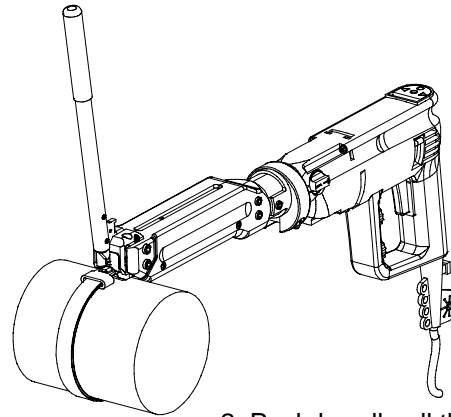


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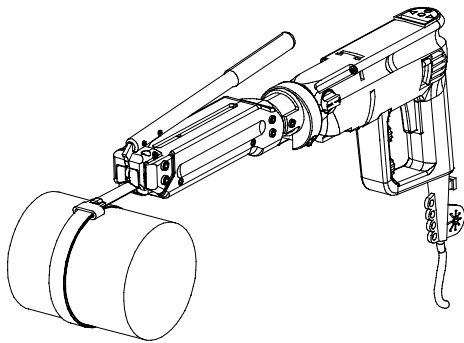
# UL9010 Electric Ultra-Lok Tool Operating Instructions



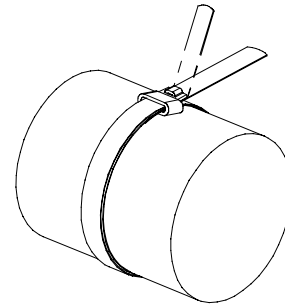
1. Keep handle all the way down when applying tension to clamp tail. Tighten clamp until drill stalls.



2. Push handle all the way forward to form lock. Do not force past a solid stop.



3. Push handle all the way down. Reverse drill and feed clamp tail out of tool. Do not force tool against clamp, it may result in a folded clamp tail.



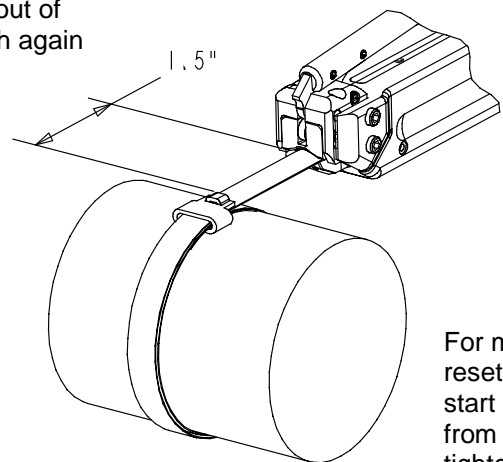
4. Break away clamp tail by bending it up and down. Tap down buckle shroud to complete clamp.

Keep handle all the way down when applying clamps. Make sure tension block is all the way forward against the tool head. Set the drill up for right-hand rotation. Insert clamp tail fully into tool through the tool head. Position the clamp at intended location and fully depress the actuator switch on drill. Gripper in tension block automatically engages clamp tail. Tension is applied when tension block stalls under load and red torque indicator light glows on drill. Push the handle all the way forward to a solid stop to form a lock and cut off clamp tail. Check to see if lock on clamp is adequate. Always tap down buckle shroud on completed clamps.

Return handle down. Reverse switch on drill. Feed excess band out of tool, while tension block is returning to its original position. Reverse switch again and tool is ready for the next clamp.

**Important:** 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.

If clamp does not get tight on first pull, reverse drill and reset tool for more pull. When re-applying tension, be sure to leave approximately 1.5 inch gap between tool head and buckle to ensure adequate thread engagement between tension block and screw.

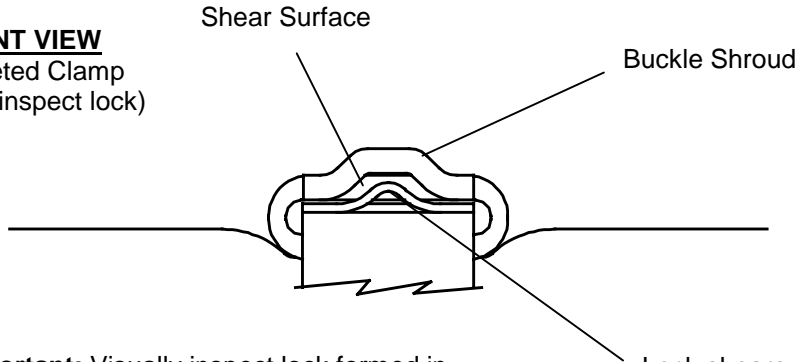


For more pull, reset tool and start 1.5 inches from buckle to tighten clamp.



Inspect buckle on completed clamp and tap down buckle shroud.

**FRONT VIEW**  
Completed Clamp  
(Visually inspect lock)

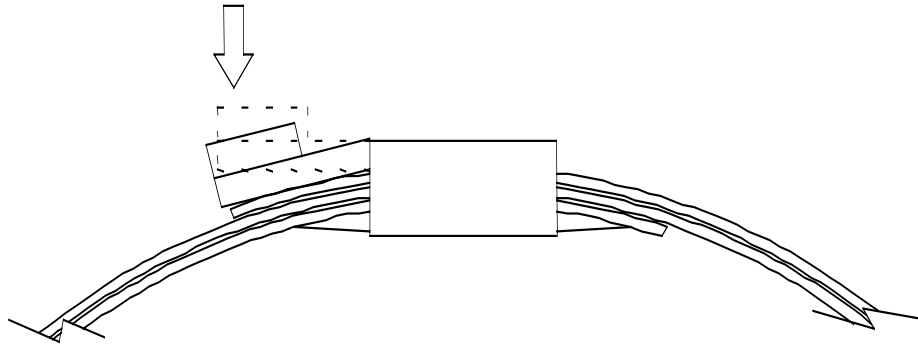


**Important:** Visually inspect lock formed in band as shown. If lock has slipped under the sheared surface of the buckle, remove clamp and install a new one at reduced tension.

Lock sheared in center and formed inside shroud

**SIDE VIEW**  
Completed Clamp

Tap down buckle shroud to complete clamp



Applying clamps on soft, thick-walled hose: tension clamp as described on page 3. Wait 10-15 seconds before lifting handle and forming lock. This allows hose to settle under clamp (cold flow), after that, clamp may be tensioned more by squeezing actuator switch on drill until red indicator light glows. Complete clamp as described on page 3.



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# UL9010 Electric Ultra-Lok Tool Assembly Instructions

**Notes:**

Apply Item 34 (Grease) to:  
 Item 4 (Cut off Cam)  
 Item 3 (Cutter Knife) at contact point with item 1 (Tool Head)  
 Item 27 (Spring) Before installation

Apply Item 35 (Grease) to:  
 Item 7 (Tension Screw) Threads and at Grooved end  
 Item 2 (Cutter Blade) Counter-bore only, after item 14 (Bearing Tip) has been installed.

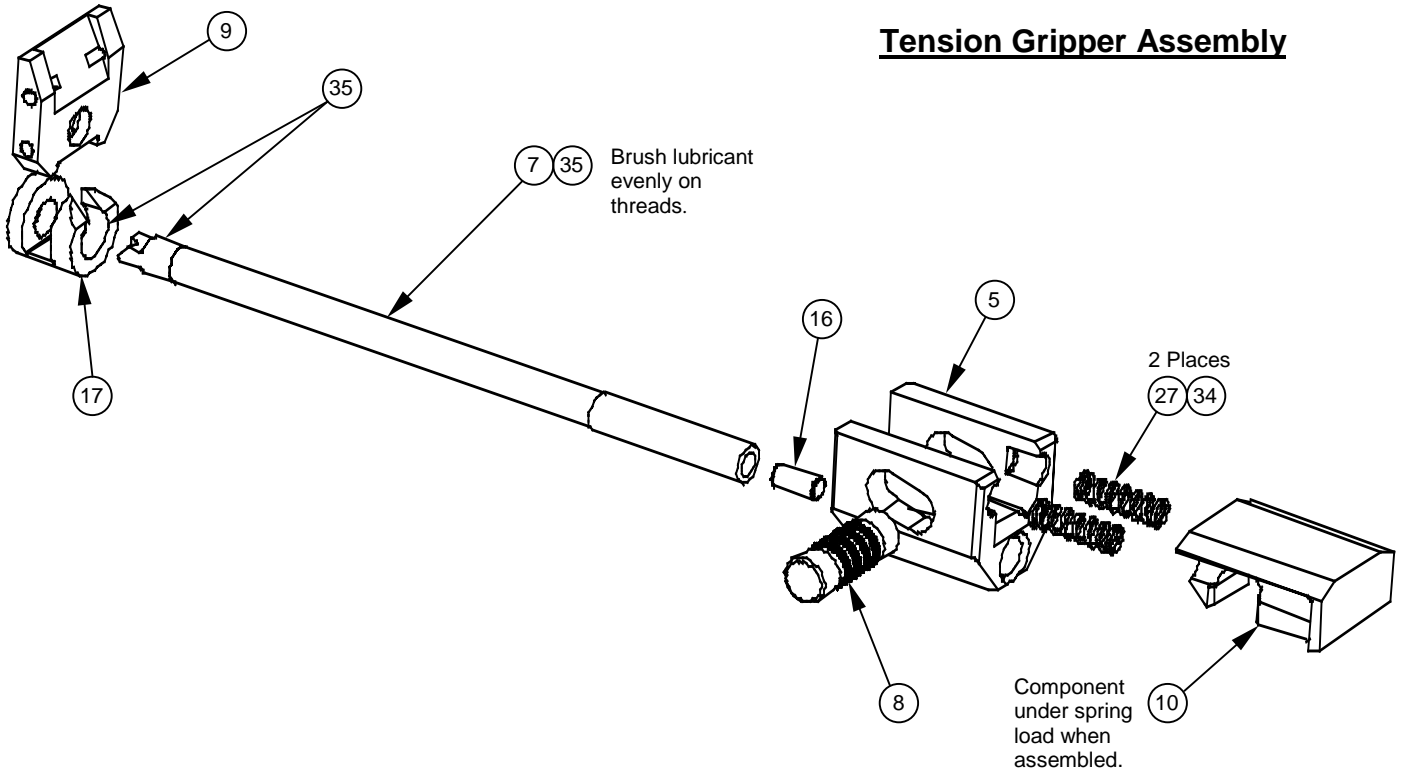
Tighten the following:  
 Item 24 (#10-32 Screw) to 60 – 70 in-lbs.  
 Item 23 (1/4-28 Screw) to 90 – 110 in-lbs.

Adjust Item 25 (Plunger) for positive detent action when item 6 (Handle) is actuated.

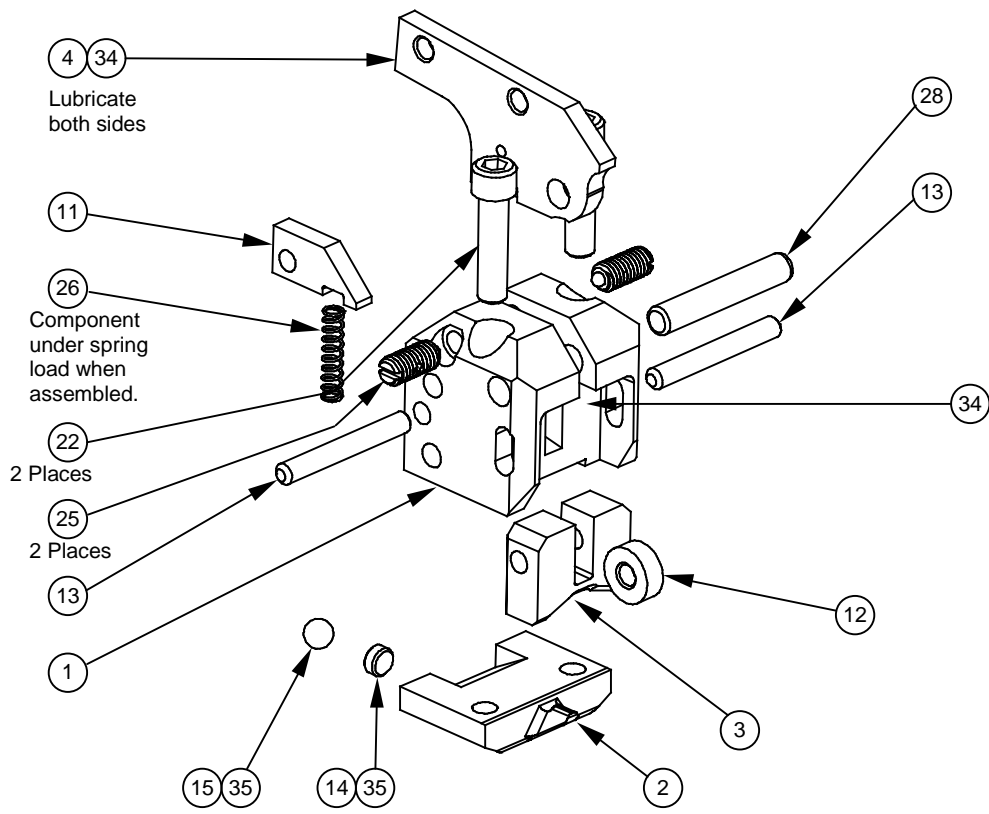
35	C23187	.03	Lubricant, Black Moly, Hi-Temp (cc)
34	I16387	.05	Lubricant, Super Lube w/ Teflon (cc)
33	S19787	.01	Adhesive, Bonding, #415 (cc)
32	M07987	2	Threaded Insert, #10-32
31	M08087	4	Rivet, Blind, .125 X .328 Long
30	J64387	2	Pin, Spring, 3/16 X 5/8 Long
29	M08187	4	Washer, .128 ID X .238 OD
28	M01487	1	Pin, Dowel, 1/4 Dia X 1.50 Long
27	A53587	2	Spring, Compression, .300 X 1.00 Long
26	A33887	1	Spring, Compression, .180 X .813 Long
25	M02487	2	Screw, Spring Plunger, 1/4-20
24	M06187	4	Screw, Socket Head Cap, #10-32 X 3/8"
23	J67287	4	Screw, Socket Head Cap, 1/4 X 1/2"
22	M05787	2	Screw, Socket Head Cap, 1/4 X 1"
21	M05687	1	Grip, Textured, Gray
20	M07587	2	Wear Plate, Fin.
19	M07487	1	Body, Right, Finished, UL9000
18	M07387	1	Body, Left, Finished, UL9000
17	M04387	1	Tripper Bracket, Cast/Fin.
16	M02287	1	Tip, Load Bearing, Fin.
15	M06587	1	Ball, 1/4" Diameter
14	M05387	1	Bearing Tip, Fin.
13	M01388	2	Pin, .187 Dia X 1.50 Long, Fin.
12	M00287	1	Roller, Cut-off, Fin.
11	M02387	1	Plate, Release, cast/fin.
10	M09187	1	Gripper Guide, UL2000
9	M01787	1	Plate, Back, Cast/Fin.
8	M08887	1	Gripper, UL2000
7	M00987	1	Tension Screw, Fin.
6	M04687	1	Handle, Cut-off, finished
5	M09087	1	Tension Block, Mach., UL2000
4	M08987	1	Cam, Cut-off, UL9000
3	M00687	1	Cutter Knife, UL001
2	M00787	1	Cutter Blade, UL001
1	M00587	1	Tool Head, Fin. UL9000
Item	Part Number	Quan.	Description



## Tension Gripper Assembly



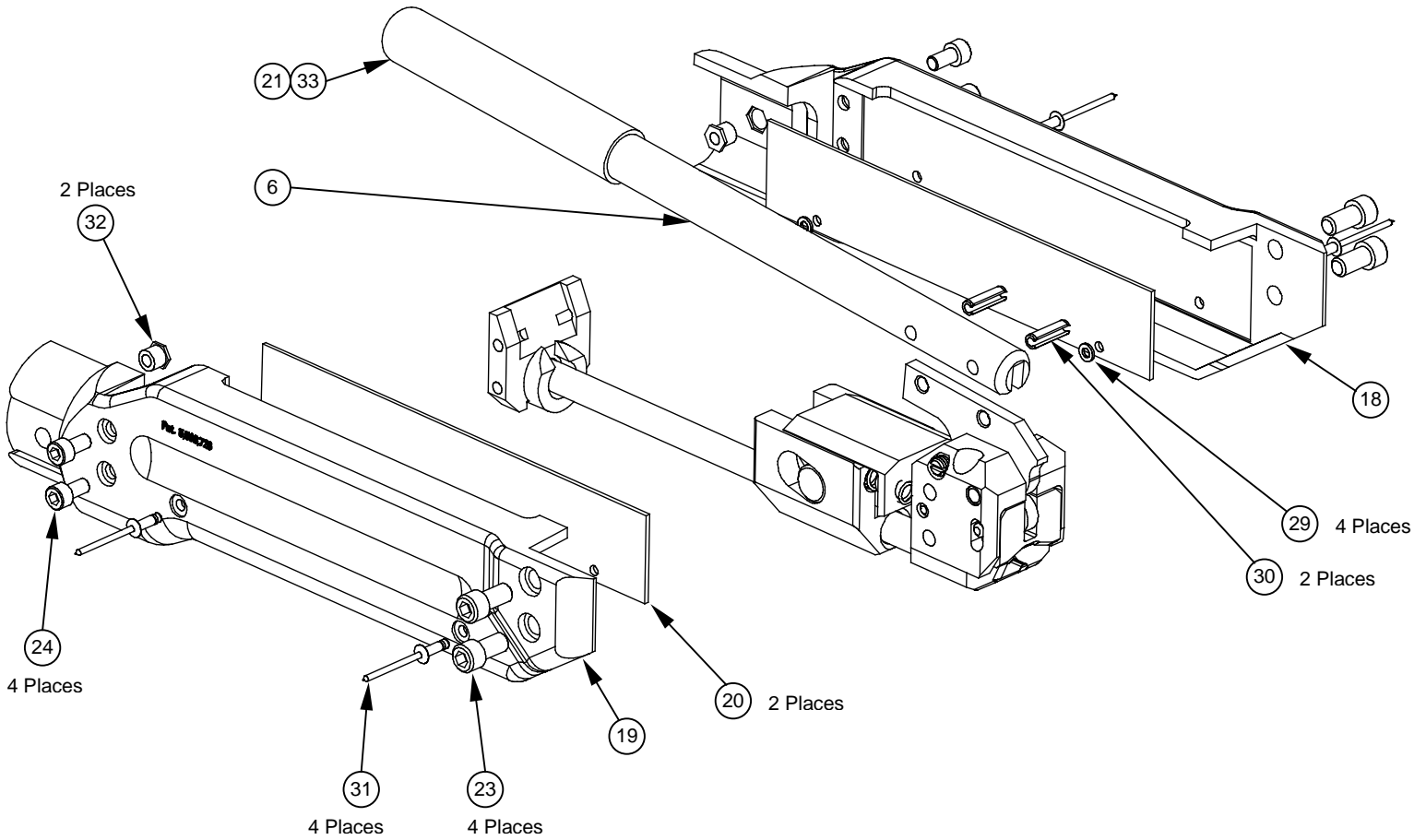
## Tool Head Assembly



See preceding pages for parts list



# UL9010 Electric Ultra-Lok Tool Assembly Instructions

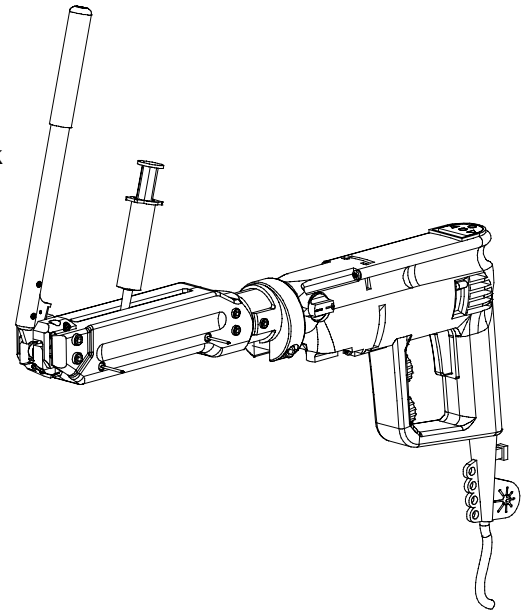


See preceding pages for parts list



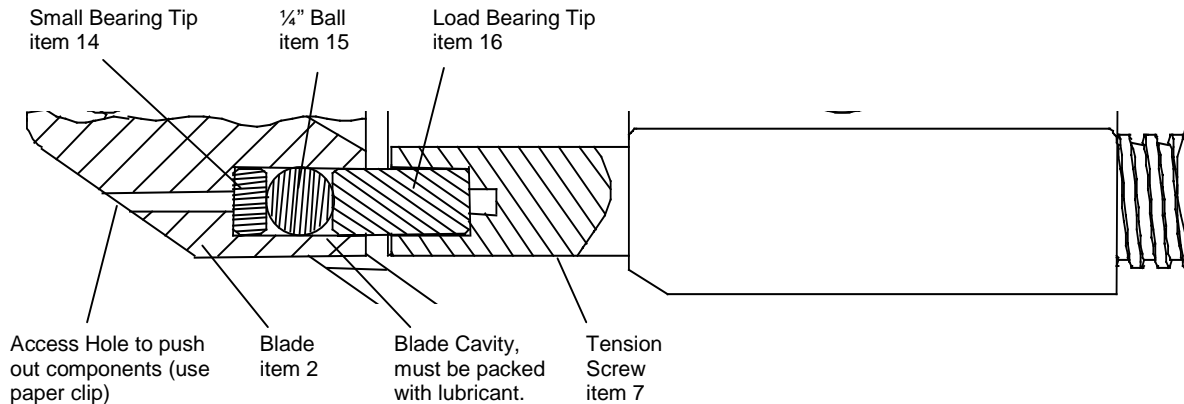
1. Approximately every 500 clamps, lubricate tension screw with molybdenum disulfide lubricant, or equivalent. Make sure tension block is all the way forward against the tool head. Remove cap from syringe and insert tip of syringe into slot on top of tool body. Press the tip against the tension screw 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 around 180° for a new bearing surface.

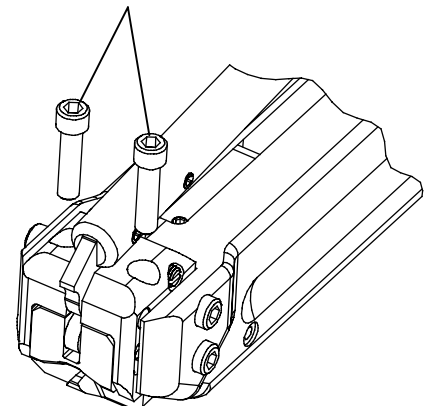
### Bearing Detail



3. To gain access to bearing components: 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 components. If ball or bearing tips appears heavily worn, replace with new one. Note: ¼" ball is made from hard tungsten carbide material, do not replace with regular ball bearing. (Smooth indentation from ball in the bearing tips is normal).

To re-assemble bearing components: wipe blade cavity clean. Push small bearing tip into cavity. Apply lubricant to ball and push into cavity and fill remaining space with lubricant. Push load bearing tip firmly into blade, some lubricant will be squeezed out. Re-attach blade to tool head, making sure that load bearing tip extends into tension screw. While turning mounting screws into blade, push on blade rearwards. Tighten screws to approximately 120 in-lbs.

Blade Mounting  
Screws  
item 22

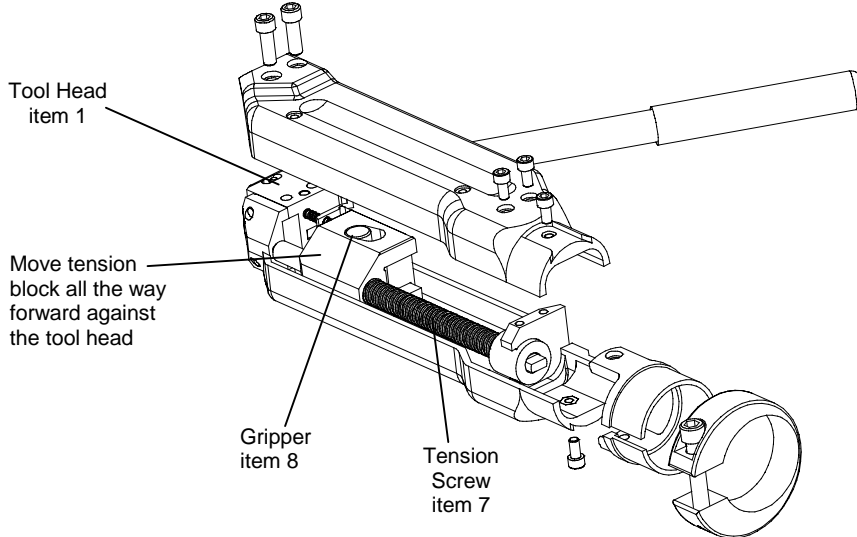


4. When replacing worn blade, follow instructions above to properly re-assemble bearing components.





5. To replace gripper: Make sure tension block is all the way forward against the tool head. Remove one side of the tool body or the other, not both. Slide gripper out sideways and replace with a new one. Re-attach tool body side. **Caution:** Do not push drill switch or move tension block while gripper is out of tool.



6. To replace tension screw: Move tension block all the way back, using drill in tensioning mode (right hand turn). Remove tool from drill by loosening clamping screw. Remove blade and load bearing tip from tensioning screw (see bearing detail). Remove one side of the tool body or the other, 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 to 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. 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 adapter clutch from drill.

## Use of Alternate Drills

### CAUTION !

The UL9000 tool is designed to work mounted to Metabo drill Model 1015. Use of any other drills in place of the Metabo 1015 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 Vice-President of Product 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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# UL9010 Electric Ultra-Lok Tool Trouble-Shooting

1. **Lock slips down in buckle:** Tighten 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 on drill. (Hammer symbol on selector knob pointing to back)
3. **Drill makes whining noise when clamp gets tight:** Safety clutch is dis-engaging inside the drill on high torque setting (usually 9 or +). Turn torque control knob setting to a lower number and lubricate tension screw.
4. **Anti-Jam clutch between drill and tool releases prematurely:** Make sure tool is fully seated on drill (Loosen clamping screw and re-tighten while pressing tool into drill). If problem still remains, replace tension screw (Band-It #M00987)
5. **Note:** To prevent over-travel 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.

#### Band-It Tool Guarantee and Conditions

Band-It tools are guaranteed against defective workmanship and/or materials for a period of one year from date of purchase. This guarantee is void if tools are altered or abused in any manner, including lack of lubrication, or used for any purpose or in any way not specifically covered by the instruction packed with each tool.

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; neglect of operating condition of Band-It tools or non-recommended combinations of Band-It products. Band-It IDEX, Inc. cannot be responsible for performance characteristics resulting from such variables. Representations by any person of performance data other than as set forth herein or otherwise in writing by Band-It IDEX, Inc. are unauthorized and are at customers risk.

*This is Band-It's sole warranty and is in lieu of all other warranties, expressed or implied, which are hereby excluded, including in particular all warranties of merchantability or fitness for a particular purpose. Band-It shall not be liable for any loss, damages or expenses directly or indirectly related to the use of its tools or from any other cause or for consequential damages. It is expressly understood that Band-It is not responsible for damage or injury caused to other products, property, or persons by reason of the use of its tools.*

Band-It IDEX, Inc. reserves the right to change and/or improve any Band-It product without notice.

Band-It products are available from your local authorized Band-It distributor at prices and terms established individually by them. Consult your local authorized distributor for immediate delivery from local stock.

**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.

Ultra-lok clamps and tools are covered under one or more of the following U.S. patents: 5,123,350 5,303,571 5,322,091 5,452,523 5,127,446 5,483,998 other U.S. and foreign patents are pending.

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