UL9010 Ultra-Lok® Tool



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Warranty: **For warranty information visit the following URL**

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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.

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.

General Safety Guidelines

Read and understand all instructions prior to operating this tool

- Maintain a safe working environment. Keep your work area clean and well lighted. Cluttered benches and dark areas invite accidents.
- Protect yourself and others in the area with proper safety gear including protective eye ware.
- 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. This manual contains detailed instructions. The operator is advised to read it and become familiar with instructions prior to operating the tool.
- Clamping objects other than hose requires similar precautions.
- Improperly tightened clamps may result in dangerous hose assemblies, which could cause injuries or property damage.
- 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.

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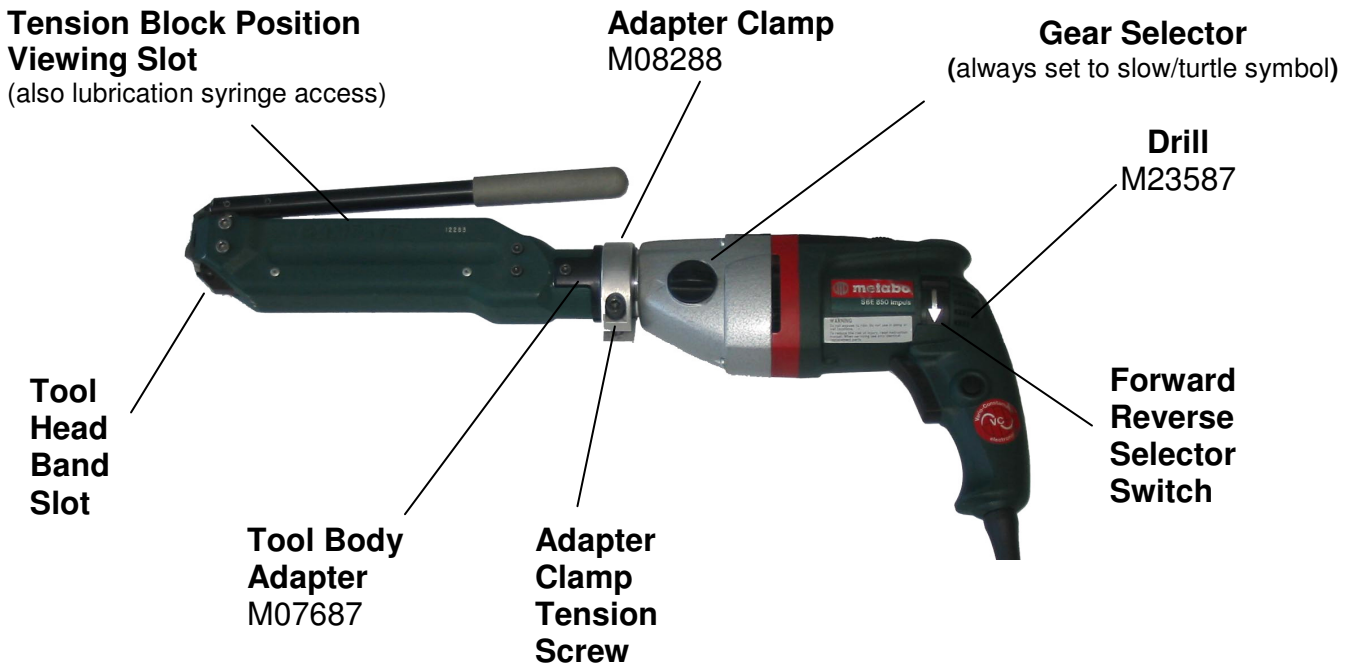
Warning:
Always wear safety glasses when operating this tool. Keep both hands away from clamp being tensioned. Use common sense, squeezing force of ¾" clamp can reach as high as 2 tons. Never attempt to clamp objects which can shatter, or otherwise cause bodily harm.

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 (turtle symbol), and set as shown on page 4.
- Impact drive must be disengaged and set to (drill symbol).

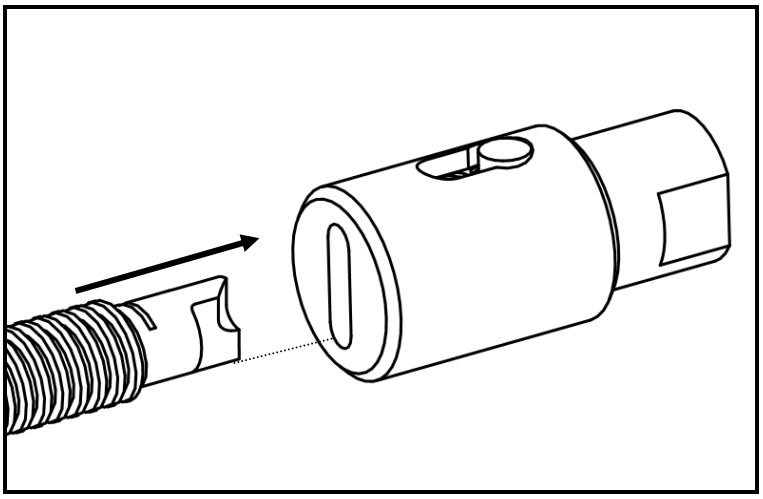
1. Plug drill into standard 115V AC, 60 Hz outlet. If using and extension cord, a 14 gauge cord is suggested for lengths up to 50 feet, 12 gauge cord required if running longer than 50 feet, 10 gauge cord if running over 100 feet.
2. To mount drill onto BAND-IT Ultra-Lok tool: First use the two #10-32 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.
3. 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 ½" Ultra-Lok clamp, see pages 6 and 9 of this manual.

Use only with BAND-IT ¾" Ultra-Lok Free-End and Preformed Clamps

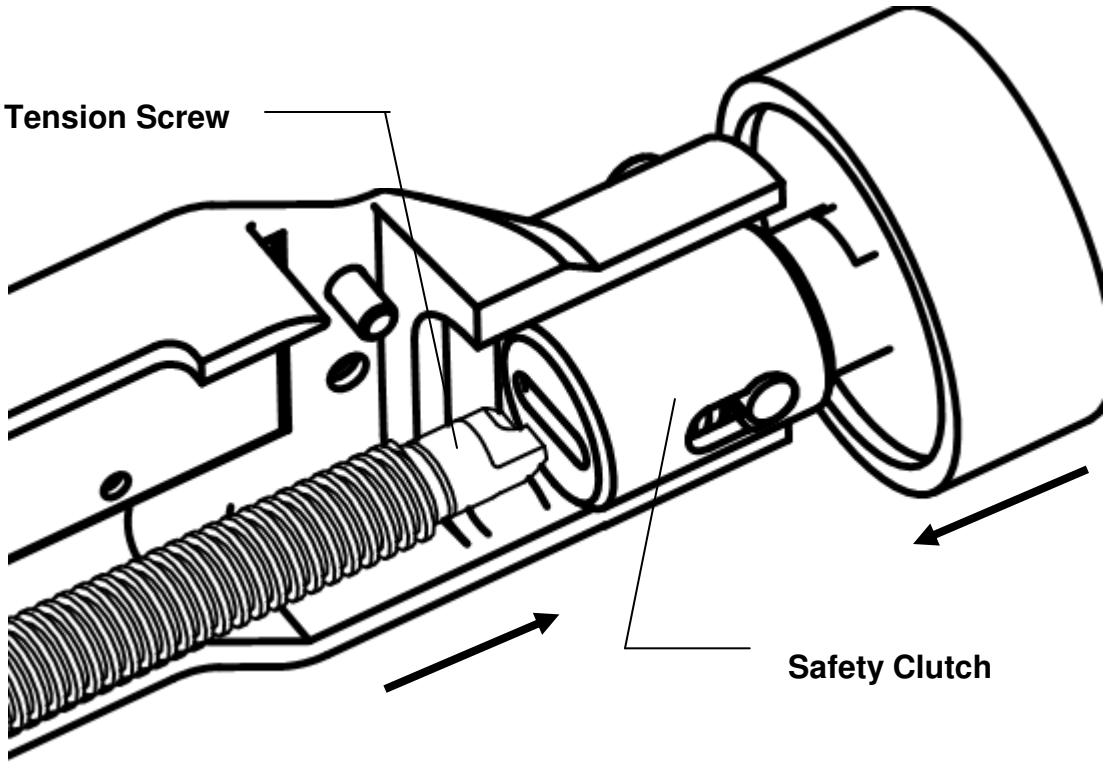


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NOTE: Alignment is critical for proper tool function.



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.

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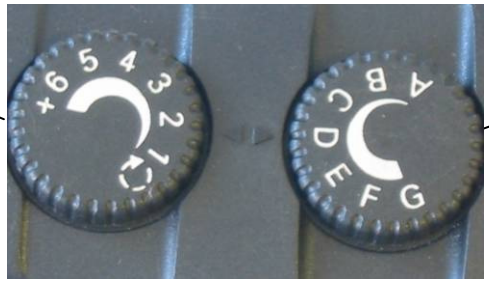
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Recommended Drill Settings:

(Speed-Torque)

	½"	¾"
Single Wrap	C-2	D-2
Double Wrap	D-2	E-4
*Preformed	D-2	E-4



NOTE: *These torque settings are suggested settings only, individual tools should be adjusted for the clamping application. See pages 9-11.*

*IMPORTANT: *Larger sizes of preformed clamps (5" and up) may require a lower setting to avoid over-stressing the lock and creating potentially unsafe assemblies. Inspect lock per instructions on page 7.*

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 850 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 Vice President of Engineering and Manufacturing 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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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 at grooved end
- Item 2 (Cutter blade) Counter-bore only, after item 14 (Bearing tip) has been installed.

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

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

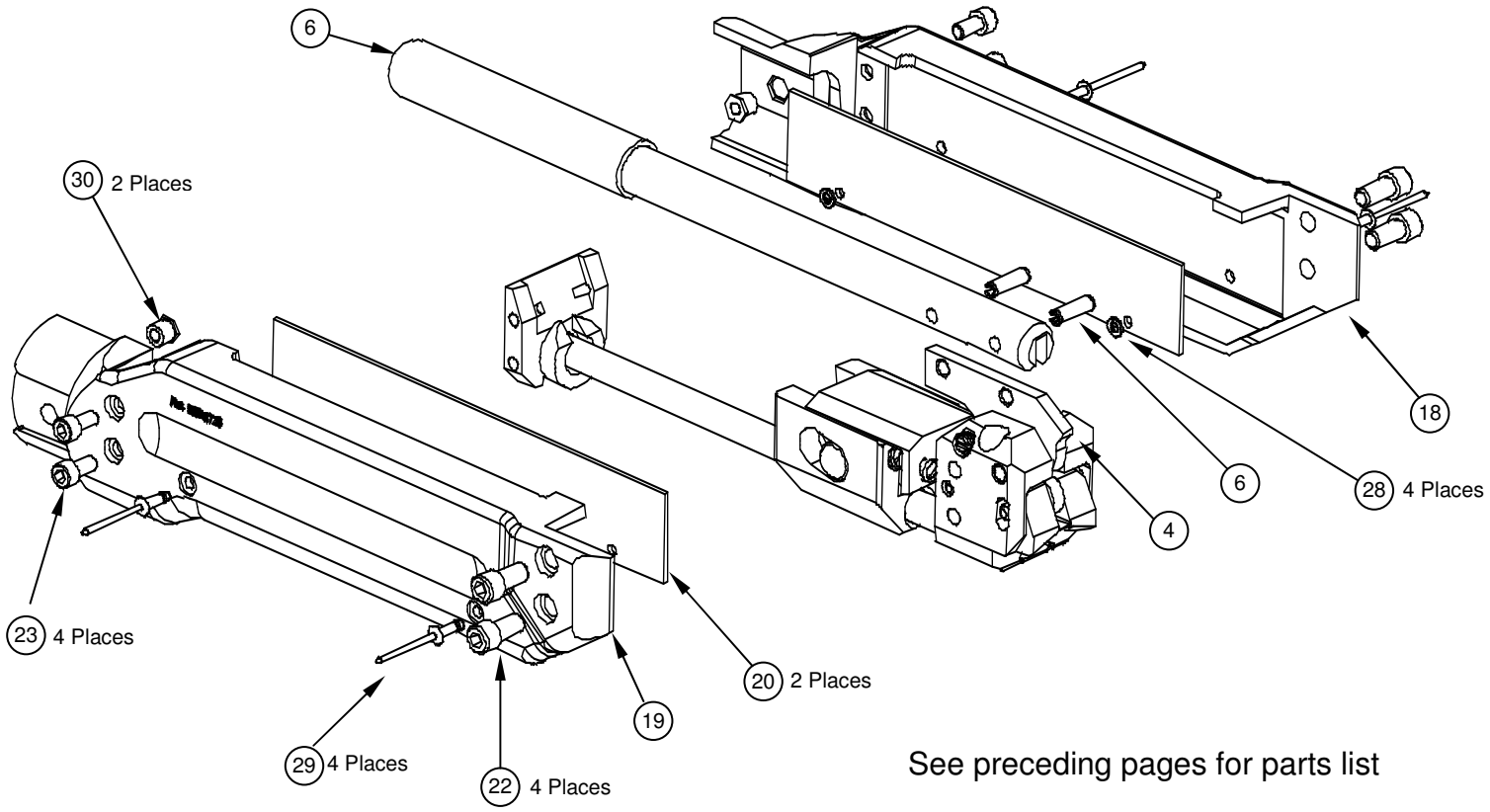
Part M09887, and its alternate M09387, Shear Plate has two cutting edges. This part can be rotated to use the second edge prior to replacement.

NOTE:
Part M09387, (Optional) ½" Shear Plate - Required replacement for # 33 M09887 shear plate in order to install ½" wide Ultra-Lok Clamps

Item	Part Number	Description
1	M00587	Tool Head, Fin. UL
2	M09787	Cutter Blade, UL
3	M08687	Cutter Knife, UL
4	M08987	Cam, Cut-off, UL
5	M09087	Tension Block, Mach., UL
6	UL1219	Handle Assembly: Includes Handle, Handle Grip, and Pins
7	M00987	Tension Screw, Fin.
8	M08887	Gripper, UL
9	M01787	Plate, Back, Cast/Fin.
10	M09187	Gripper Guide, UL
11	M02387	Plate, Release, cast/fin.
12	M00287	Roller, Cut-off, Fin.
13	M01388	Pin, .187 Dia X 1.50 Long, Fin.
14	M05387	Bearing Tip, Fin.
15	M06587	Ball, ¼" Diameter
16	M02287	Tip, Load Bearing, Fin.
17	M04387	Tripper Bracket, Cast/Fin.
18	M07387	Body, Left, Finished, UL
19	M07487	Body, Right, Finished, UL
20	M07587	Wear Plate, Fin.
21	M05787	Screw, Socket Head Cap, ¼ X 1"
22	J67287	Screw, Socket Head Cap, ¼ X ½"
23	M06187	Screw, Socket Head Cap, #10-32 X 3/8"
24	M02487	Screw, Spring Plunger, ¼-20
25	A33887	Spring, Compression, .180 X .813 Long
26	A53587	Spring, Compression, .300 X 1.00 Long
27	M01487	Pin, Dowel, ¼ Dia X 1.50 Long
28	M08187	Washer, .128 ID X .238 OD
29	M08087	Rivet, Blind, .125 X .328 Long
30	M07987	Threaded Insert, #10-32
31	I16387	Lubricant, Super Lube w/ Teflon (cc)
32	C23187	Lubricant, Black Moly, Hi-Temp (cc)
33	M09887	Shear Plate, ¾", UL
34	M09387	Shear Plate, ½", UL (Optional)

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See preceding pages for parts list

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 3.

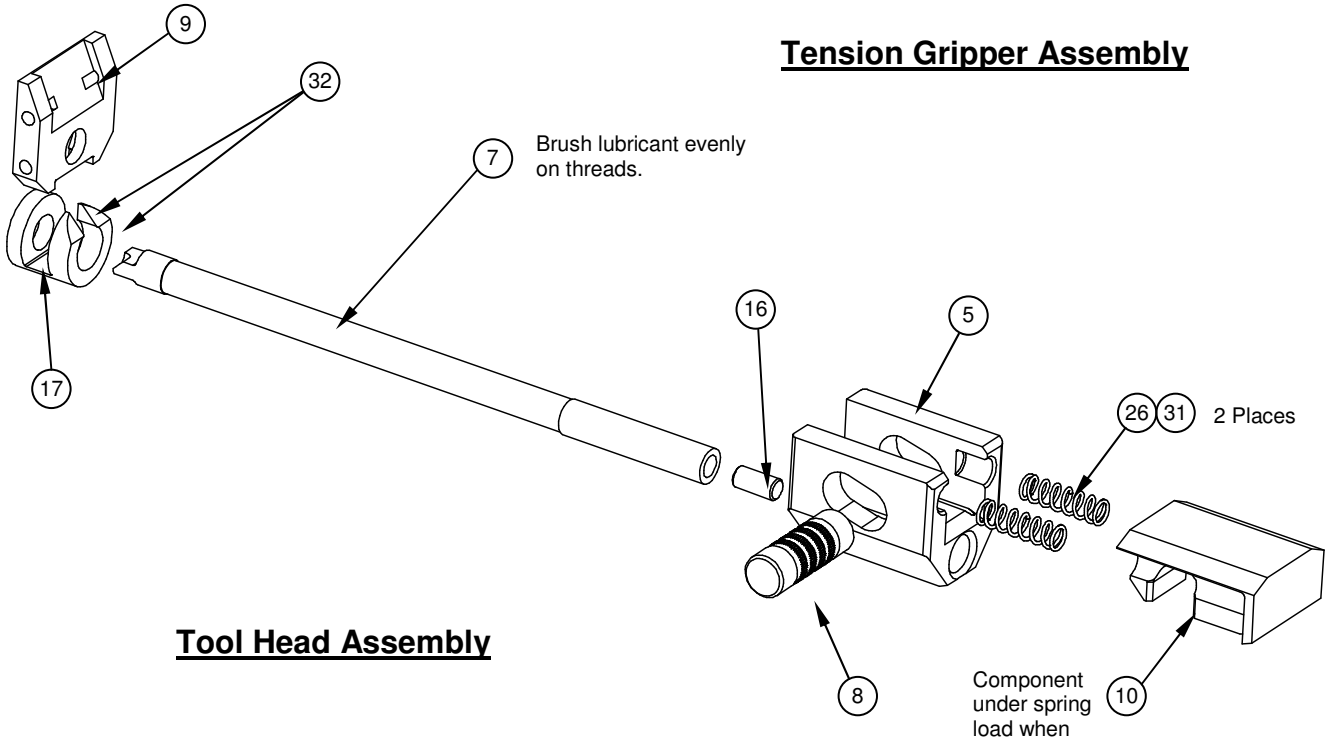
Note: To prevent safety clutch wear, do not over-use. When tensioning clamp, let drill switch go as tension block nears its end of travel. Reverse drill and send tension block all the way forward for a second pull on the band.

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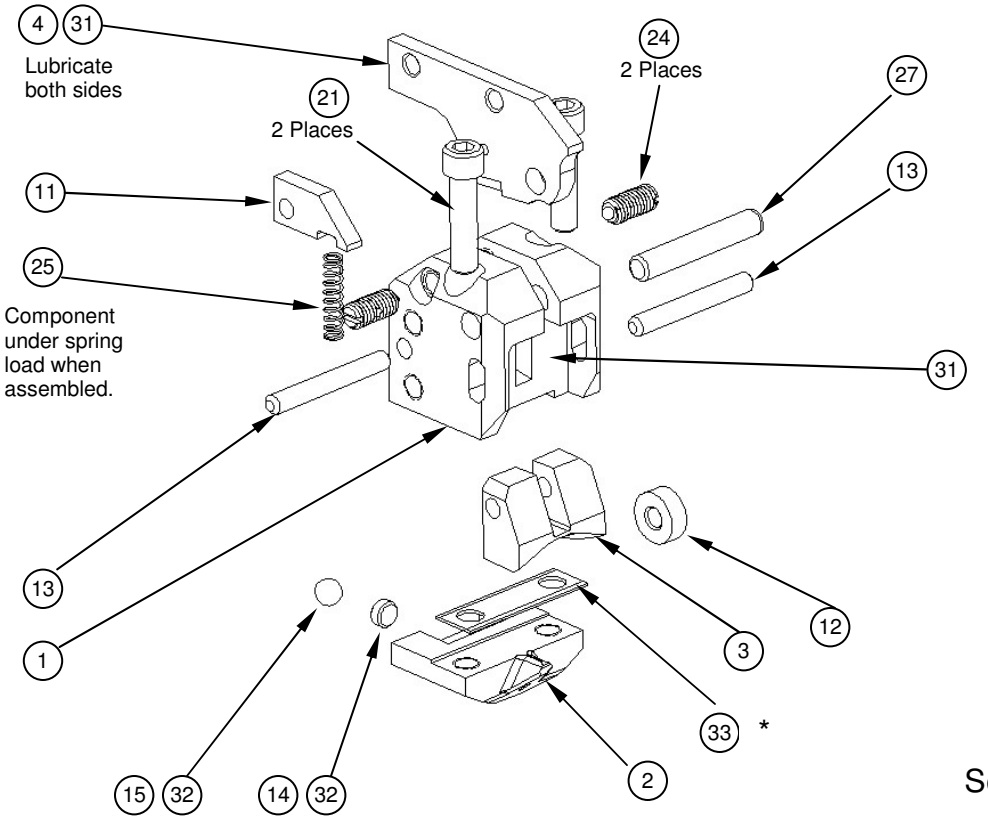
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Tension Gripper Assembly



Tool Head Assembly



*Item#34
M09387 (Optional)
½" Shear Plate Insert can be substituted for item # 33

See preceding pages for parts

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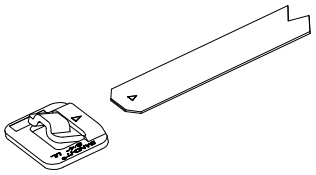
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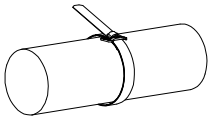
Clamp Application
Free-End Clamps

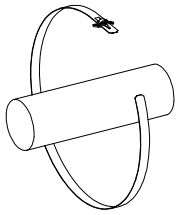
UL9010
Ultra-Lok® Tool

Warning: Always wear safety glasses when operating tool.



1. Break off an Ultra-Lok Free-End tie from the roll. Slide the buckle onto band with indented arrows pointing in same direction and same side up. Slide buckle all the way onto band until it comes to a stop between the two buckle dimples at opposite end of tie.

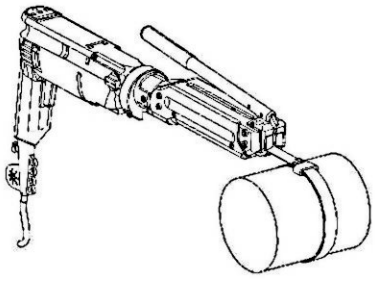




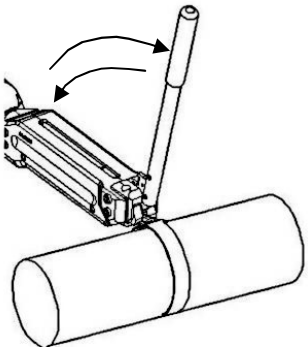
2. Wrap tie around object to be clamped. Insert the tie through buckle once for single-wrap or twice for double-wrap. Double-wrapped clamps have more than 3 times the loop-tensile strength.



3. If desired, you may pre-form a clamp in the same fashion as step 2, or use a preformed clamp in place of a Free-End.



DO NOT FEATHER the drill's TRIGGER when tensioning a clamp. USE FULL SPEED OF TOOL

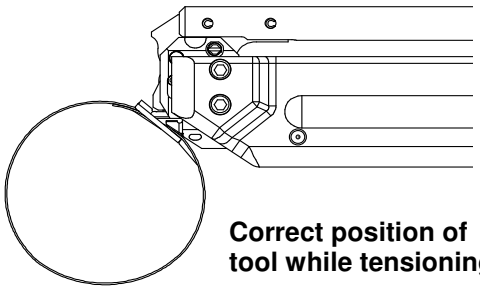


Push all the way forward to a solid stop. DO NOT JAM THE CUT-OFF HANDLE FORWARD BEYOND INTENDED TRAVEL DURING OPERATION

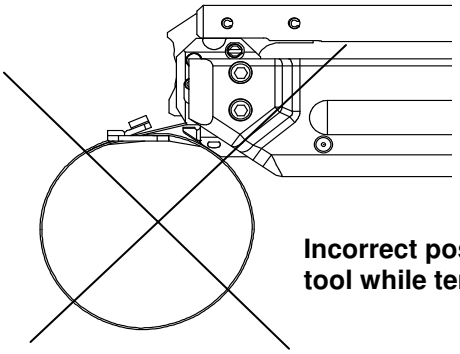
4. Position the clamp on the object you are clamping. Pull the wrapped clamp hand-tight. Slightly bend the tail up to keep the clamp in place.

5. 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.

6. Do not force tool against clamp, it may result in a folded clamp tail.
7. 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.
8. Tap down buckle shroud to complete clamp. Tool is ready for next clamp.



Correct position of tool while tensioning



Incorrect position of tool while tensioning

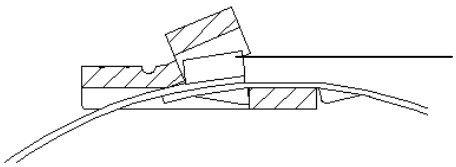
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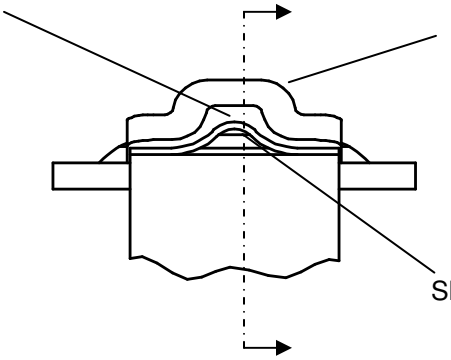
Inspect buckle on completed clamp and tap down buckle shroud.

Section View
Proper clamp
Installation

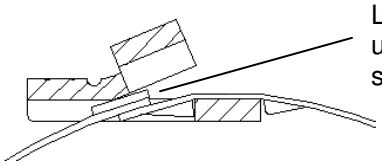


Lock sheared in center and formed inside shroud

FRONT VIEW
Completed Free-End Clamp
(Visually inspect lock)



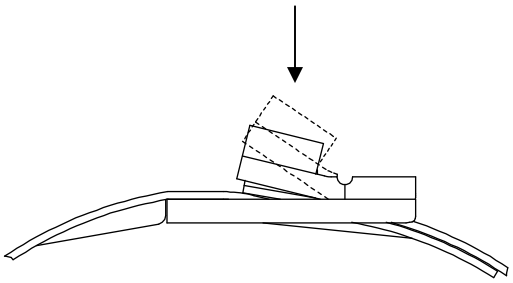
Section View
Defective Clamp
installation

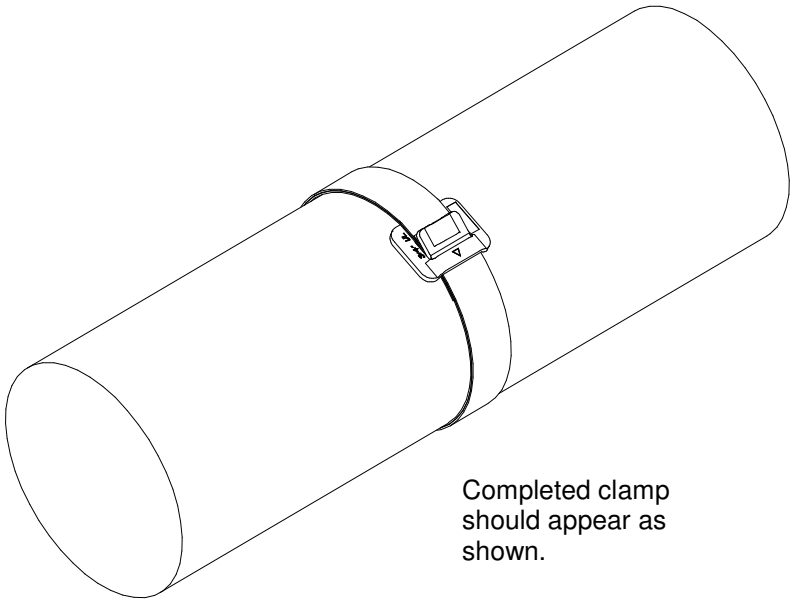


Lock has slipped back under sheared buckle surface

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.

SIDE VIEW
Completed Free-End Clamp with buckle shroud tapped down as required





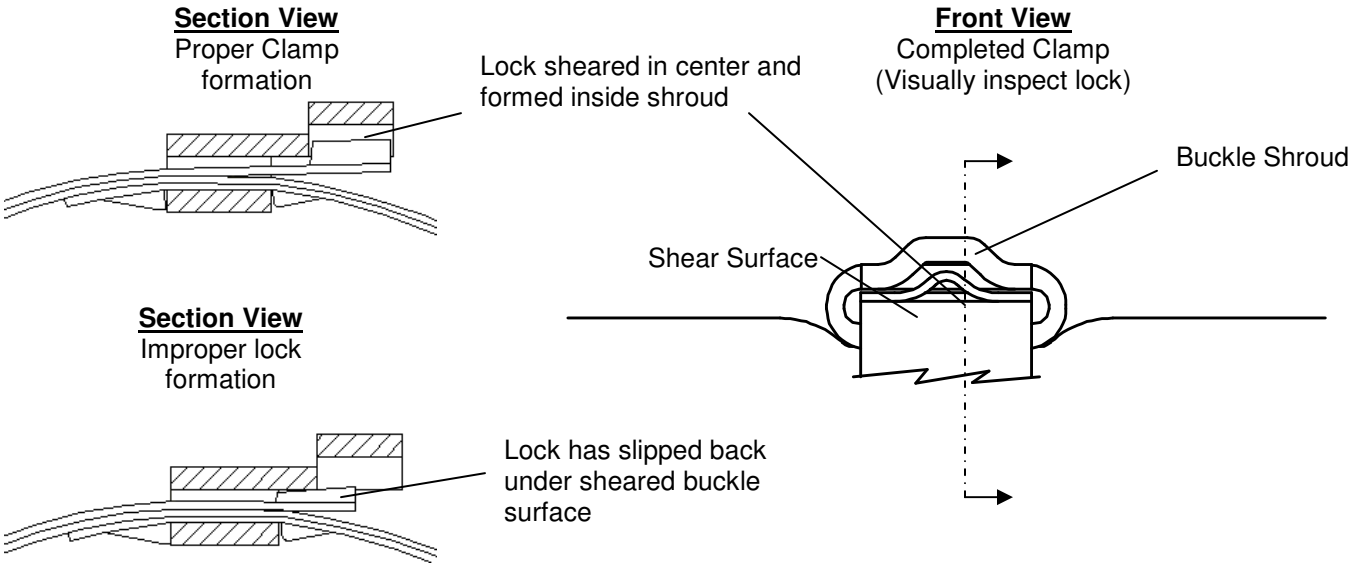
Completed clamp should appear as shown.

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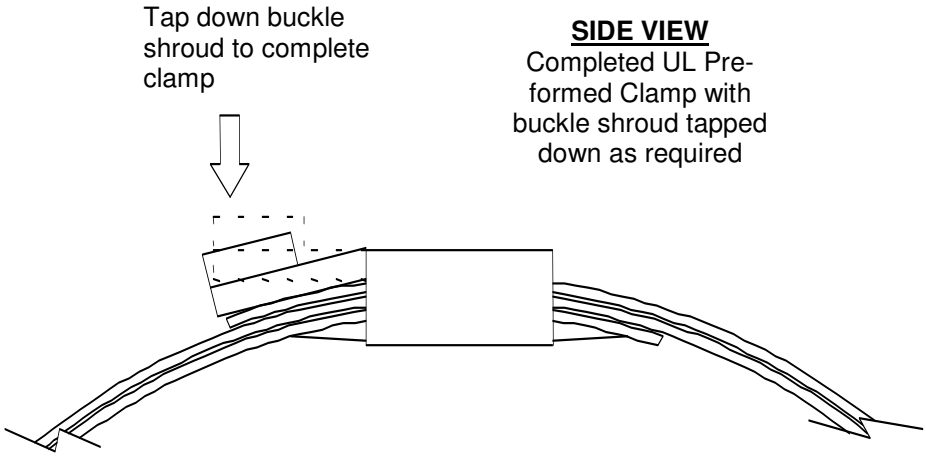
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Place clamp in desired position on object to be clamped.
Follow steps 5 and 6 on page 5.
Inspect lock in buckle on completed clamp, and then tap down buckle shroud as shown below.



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.

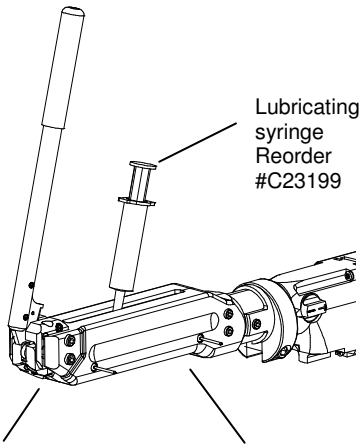
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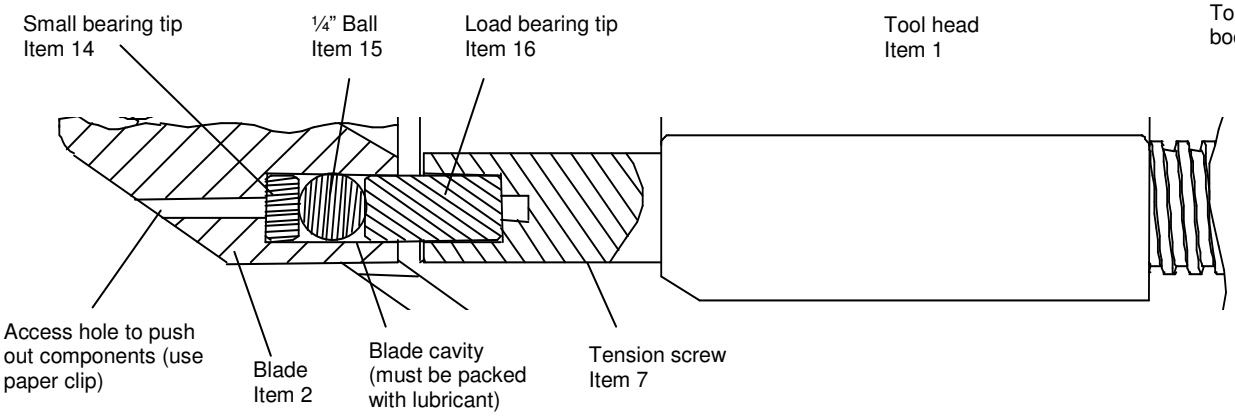
1. Lubricate tension screw with molybdenum disulfide lubricant or equivalent approximately every 500 clamps.
   Make sure the tension block is all the way forward against the tool head. Insert tip of the Lubricating syringe into slot on top of tool body. Press the tip against the tension screw just behind 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



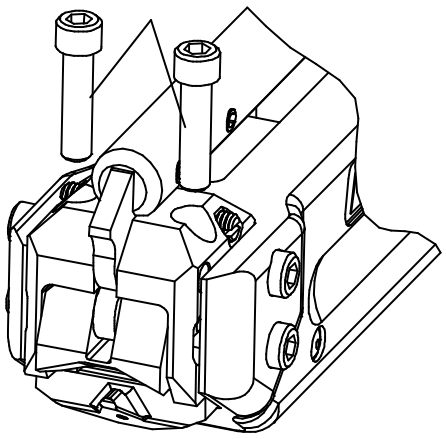
2. Every 500-1000 clamps, depending on tension setting, inspect and repack front bearing with same lubricant. Turn load bearing tip and small bearing tip over for a new bearing surface.

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: ¼" 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)

Blade mounting screws Item 22



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.

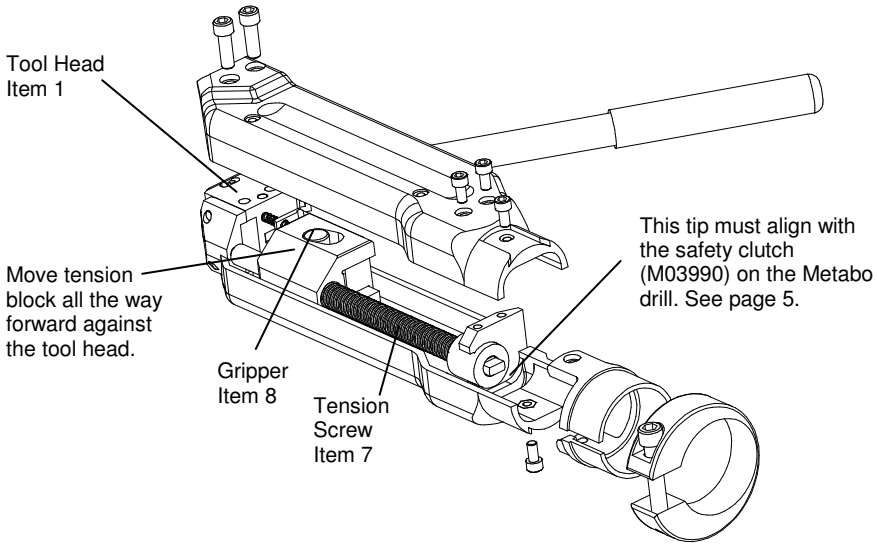
5. When replacing worn blade follow instructions above to properly re-assemble bearing components.

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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. Re-attach 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.

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Optional ½” Tool Blade Change

UL9010 Ultra-Lok® Tool

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)**

1. Detach tension body from the drill by loosening the single tensioning bolt on the aluminum collar and separating the two sections.

2. 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 ¾” adapter plate from the blade.

3. 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 ¾”, replace ½” insert with ¾” insert (M09887) and follow same instructions. Be sure to retain unused shear plate for later use.

4. 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.

5. 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.

6. **The UL9010 is not designed to work with traditional band and buckle designs**. BAND-IT Ultra-Lok® clamps must be used.

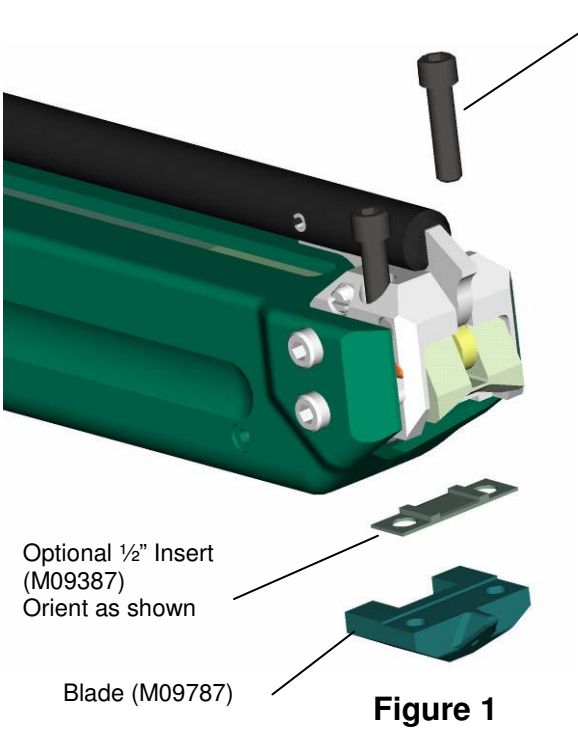


Figure 1

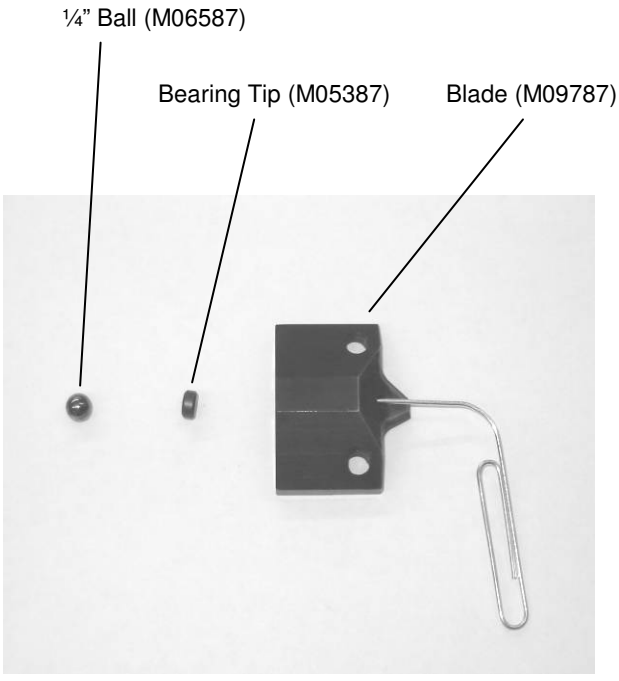


Figure 2

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