



OPERATION, PARTS AND **SAFETY** MANUAL

Strapbinder®

Battery Powered Tool

FOR USE WITH METAL HOSE CLAMPS

NOTE: Fully charge battery before first use of tool.

IMPORTANT!
DO NOT DESTROY

It is the customers responsibility to
have all operators and servicemen
read and understand this manual.

Contact your local sales representative
for additional copies of this manual.

READ ALL INSTRUCTIONS BEFORE OPERATING THIS STRAPBINDER PRODUCT



**READ THESE INSTRUCTIONS CAREFULLY.
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS PERSONAL INJURY.**

1. CLAMP BREAKAGE HAZARD

Improper operation of the tool can result in clamp breakage during tensioning, which could result in the following:

- A sudden loss of balance causing you to fall.
- Both tool and clamp flying violently towards your face.

Failure to place the clamp properly around the hose or an unstable hose could result in a sudden loss of clamp tension when tensioning. This could result in a sudden loss of balance causing you to fall.

Read the tool's operating instructions. Place the clamp correctly around a properly positioned hose.

- Positioning yourself in-line with the clamp, during tensioning and sealing, can result in severe personal injury from flying clamp or tool. When tensioning or sealing, position yourself to one side of the clamp and keep all bystanders away.
- Using clamps not recommended for this tensioner can result in clamp breakage during sealing. Use the correct Strapbinder products for your application.

2. TOOL CARE

Take good care of the tool. Inspect and clean it daily, lubricate it weekly and adjust when necessary. Replace any worn or broken parts.

3. WORK AREA

Keep work areas uncluttered and well lighted. Never allow visitors to contact tool or electrical extension cords. Keep visitors away from work areas.

4. FALL HAZARD

Maintaining improper footing and/or balance when operating the tool can cause you to fall. Do not use the tool when you are in an awkward position.

5. CLAMPS

Several types of clamps can be used with this tool. Use the correct Strapbinder products for your application. If you need help contact your Strapbinder Representative.



**READ THESE INSTRUCTIONS CAREFULLY.
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS PERSONAL INJURY.**

6. CUTTING TENSIONED CLAMPS

Use only cutters designed for cutting clamps; never use claw hammers, crowbars, chisels, axes or similar tools. Such tools will cause the clamp to fly apart with hazardous force. Before using any Strapbinder product, read its Operation and Safety Manual.

7. GUARD AGAINST ELECTRIC SHOCK

- Prevent body contact with grounded surfaces, such as pipes, radiators, ranges, refrigerator enclosures.
- When tool and charger are used outdoors, use only extension cords intended for outdoors and so marked.
- Never expose power tools to moisture.

8. CONSIDER WORK AREA ENVIRONMENT

- Wear protective gloves and non-skid footwear when working outdoors.
- Never operate tool in presence of gases or flammable liquids.

9. DO NOT ABUSE TOOL

- Keep handle dry, clean and free from oil and grease.
- Always keep all cords from heat, oil and sharp edges.
- Always store idle tool in dry, high or locked-up place.
- Always remove battery from tool when not in use or before servicing.
- To avoid unintentional starting, never carry plugged-in tool with finger on switch.

10. MAINTAIN TOOL WITH CARE

Check tool for damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged must be replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have damaged switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

- When servicing double insulated tool, use identical replacement parts.
- Keep tool clean for better and safer performance.
- Inspect tool, battery and charger periodically and, if damaged, have repaired by authorized service facility.

WARNING



TRAINING

Read the operating instructions carefully. This tool must not be used by persons not properly trained in its use. Be certain that you receive proper training from your employer. If you have any questions contact your Strapbinder Representative.



EYE INJURY HAZARD

Failure to wear safety glasses with side shields can result in serious eye injury or blindness. Always wear safety glasses with side shields which conform to ANSI Standard Z87.1 or EN 166.



CUT HAZARD

Handling clamp or sharp parts could result in cut hands or fingers. Wear protective gloves.



SOUND PROTECTION

When operating the tool, wear ear protection.



ENVIRONMENTAL PROTECTION

Charger and batteries should be sorted for environmental-friendly recycling. Never open the battery. Do not throw the used battery into household waste, fire or water.



DISPOSAL

This tool is manufactured without any physical or chemical substances which could be dangerous to health. The legal prescriptions for disposal of all the parts must be observed. The electrical assemblies should be dismantled so that the mechanical, electro-mechanical and electronic components can be disposed of separately.



DO NOT USE WATER

Do not use water or steam to clean the tool.



POWER SOURCE

Before starting preventive or corrective maintenance, remove the battery from the tool. Always inspect the electrical plug and cable on charger before use. If damaged, they must be replaced by qualified personnel.

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Strapbinder GripClamp

Part No. 800500 - J Series
Part No. 800805 - Band & Buckle
Part No. 800800 - Center Punch

Note: Clean the tool daily with a brush and apply light oil to all the moving surfaces. The feed wheel can be cleaned by holding a wire brush parallel to the face of the wheel while the tool is running.



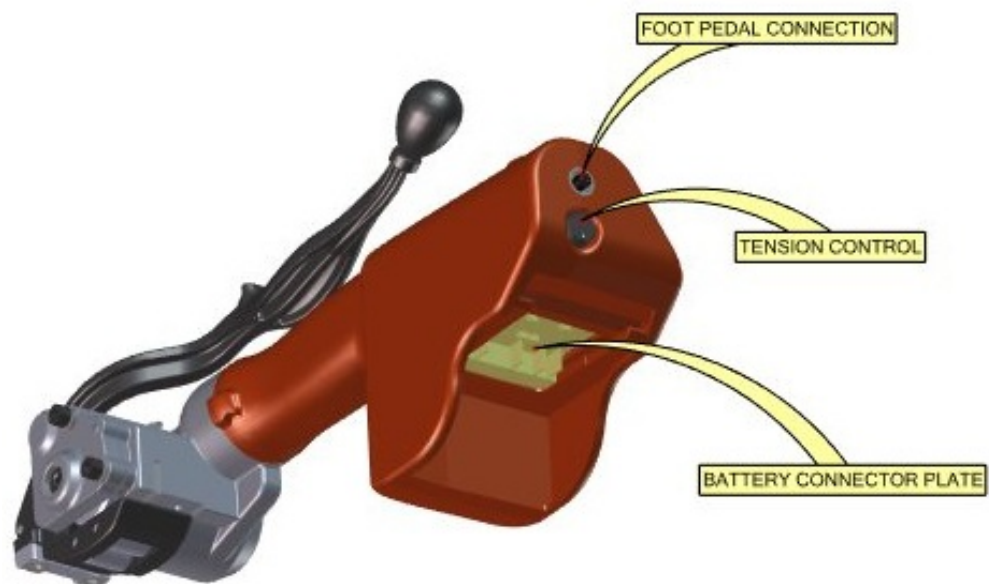
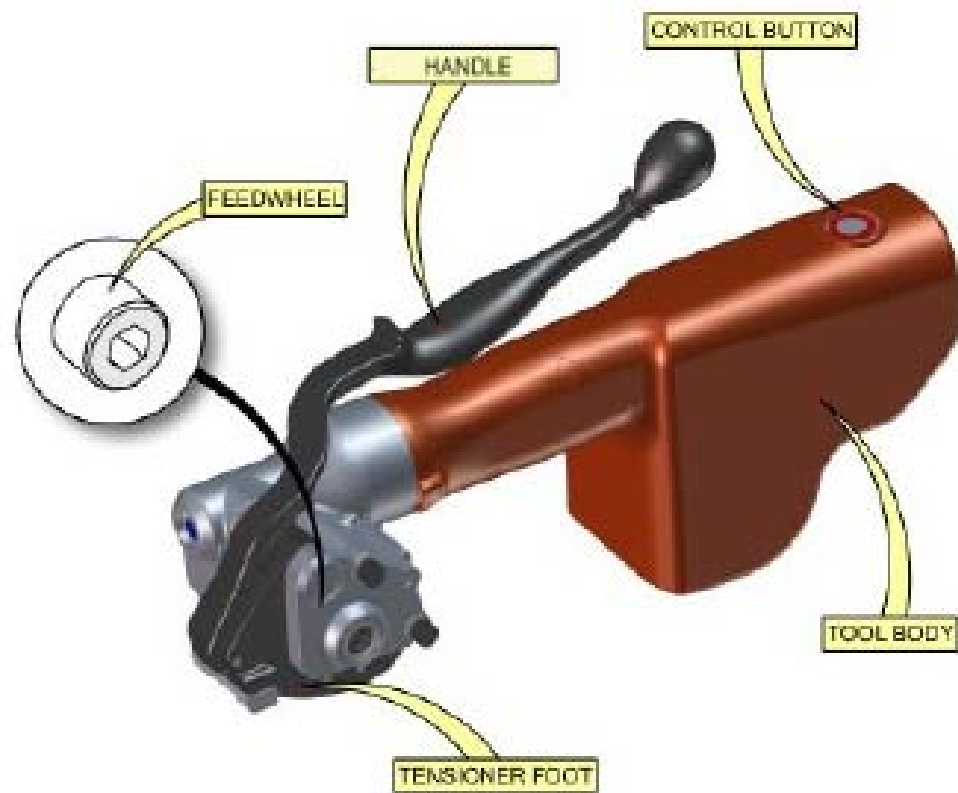
RECOMMENDED J-SERIES CLAMPS

GALVANIZED STEEL	STAINLESS STEEL	CLAMP I.D.	WIDTH
HBJS-305	HBJS-205	1-1/2"	5/8"
HBJS-306	HBJS-206	1-3/4"	
HBJS-307	HBJS-207	2"	
HBJS-308	HBJS-208	2-1/4"	
HBJS-309	HBJS-209	2-1/2"	
HBJS-310	HBJS-210	2-3/4"	3/4"
HBJS-311	HBJS-211	3"	
HBJS-312	HBJS-212	3-1/2"	
HBJS-313	HBJS-213	4"	
HBJS-314	HBJS-214	4-1/2"	
HBJS-315	HBJS-215	5"	
	HBJS-216	6"	
HBJS-318	HBJS-218	7"	
	HBJS-219	8"	

RECOMMENDED CENTER PUNCH CLAMPS

GALVANIZED STEEL	STAINLESS STEEL	CLAMP I.D.	WIDTH
HBCP4	HBCP4S	1"	5/8"
HBCP5	HBCP5S	1-1/4"	
HBCP6	HBCP6S	1-1/2"	
HBCP7	HBCP7S	1-3/4"	
HBCP8	HBCP8S	2"	
HBCP9	HBCP9S	2-1/4"	
HBCP10	HBCP10S	2-1/2"	
HBCP11	HBCP11S	2-3/4"	
HBCP12	HBCP12S	3"	
HBCP14	HBCP14S	3-1/2"	
HBCP16	HBCP16S	4"	
HBCP18	HBCP18S	4-1/2"	
HBCP20	HBCP20S	5"	
HBCP24	HBCP24S	6"	
HBCP28	HBCP28S	7"	
HBCP32	HBCP32S	8"	

MAJOR COMPONENTS



BATTERY INFORMATION & CHARGING

Plug charger into your standard power outlet.

With no battery pack inserted, the charger's green indicator light will go ON. This indicates the charger is receiving power and the charger is ready for operation.

When you insert the battery pack into the charger, the charger's green indicator light will begin to "BLINK". This indicates that the battery is receiving a fast charge.

When the indicator light stops "BLINKING" (and becomes a steady green light) fast charging is complete. The battery pack is fully charged and can be removed from the charger.

The battery pack may be used even though the light may still be blinking. The light may require more time to stop blinking depending on temperature.

The purpose of the green light is to indicate that the battery pack is fast-charging. It does not indicate the exact point of charge. The light will stop blinking in less time if the battery pack was not completely discharged.

When you begin the charging process of the battery pack, a steady red light could also mean the battery pack is too hot or too cold.

Fast charging is only possible when the temperature range of the battery pack is between 32F (0C) and 113F (45C). When needed, the internal fan of the charger will turn on to aid the charging process and speed.



**Recharge the provided battery only with the provided charger.
DO NOT recharge any other battery with the provided charger.
DO NOT use any other battery with this tool.**



	Charger is plugged in and receiving power.
	Battery is too hot or cold to receive charge. Charging starts when the battery reaches the proper temperature.
	Battery cannot accept a charge. Replace battery.

As soon as the battery pack reaches the correct temperature range, the battery charger will automatically switch to fast charging.

If the red indicator light is "BLINKING", the battery pack cannot accept a charge.

- Check to make sure the battery pack is inserted to the charger properly.
- Clean the contacts of the charger or battery pack (e. g. by inserting and removing the battery several times) or replace the battery pack as required.

When the battery pack is fully charged, unplug the charger (unless you're charging another battery pack) and install the battery pack back into the tool.

INSTALLING A BATTERY

1. Hold the tool firmly with one hand.
2. Using your other hand, insert the battery into the tool with a sliding motion.
3. Firmly push the battery until fully seated. When fully seated the battery locks in place.
4. To remove the battery press the Red release button on the battery and slide out.

NOTE: Remove the battery from the tool when not in use for extended periods of time.



REPLACEMENT BATTERIES & CHARGERS

110 VOLT	BATTERY	CHARGER
	P/N 800293	P/N 800543

220 VOLT	BATTERY	CHARGER
	P/N 800293	P/N 800543



OPERATING INSTRUCTIONS

SETTING BAND/CLAMP TENSION

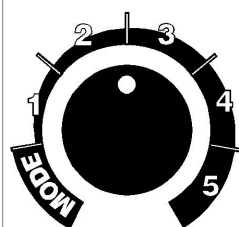
⚠ WARNING

Failure to use the proper clamp type for the application and hose being clamped can result in an improperly sealed hose which can result in serious personal injury. If you have any questions, contact your local Strappbinder Representative.

Tension is controlled by setting the control on the rear of the tool. Adjust the tool to give the desired tension level. Rotate the tension control to desired setting.



Recommended Tension Levels



800514

	MODE-1	MODE-2	MODE-3
	J-Clamp	Band & Buckle	Center Punch
1	5/8" 201 Stainless	MIN	Min Tension
2	5/8" Galvanized	↓	5/8" Galvanized
3	3/4" 316 Stainless		5/8" Stainless
4	3/4" 201 Stainless		
5	3/4" Galvanized	MAX	Max Tension

* Settings chosen may vary per application.

OPERATING INSTRUCTIONS

PLEASE NOTE: Do not operate tool without clamp/banding, as damage to the tool may occur.

WARNING

Wear safety glasses and gloves. Stand to one side of the clamp when tensioning.
Make sure all bystanders are clear before proceeding.

SELECTING OPERATING MODE

The tool is easily changed between clamping modes. When in **MODE** selection the tool will not operate.

1. Verify a battery is installed properly into tool.
2. Turn Tension Control Knob all the way counter clockwise to enter **MODE** selection.
 - A. 1 flash on Operation Button: J-Clamp Mode
 - B. 2 flashes on Operation Button: Band and Buckle Mode
 - C. 3 flashes on Operation Button: Center Punch Mode

Note: When entered into MODE select the Operation Button will flash the current MODE.

3. Press the Operation Button to toggle between modes.
4. When correct mode is selected turn Tension Control Knob clockwise to the appropriate tension level (1 through 5).

Note: When exiting MODE selection the Operation Button will once again flash the selected mode. When the tension knob is set between 1-5, the tool is ready to operate.

5. Tool is ready to operate.

Note: When inserting the battery the operation button will typically flash indicating what mode the tool is in. If the battery is changed very quickly within seconds the light may not illuminate.



WARNING

**Wear safety glasses and gloves. Stand to one side of the clamp when tensioning.
Keep hands away from J-Series clamps during tensioning.
Make sure all bystanders are clear before proceeding.**

**The GRIPCLAMP tool is used to secure J-Series hose clamps to hose assembly.
Always use the proper J-series clamp for the specific hose assembly.**

**Failure to apply the proper rated J-Series clamp could
result in assembly failure also resulting in serious injury.**

OPERATING INSTRUCTIONS

1. Place an appropriate size J-Clamp around the hose assembly.



2. Insert preform tail into the front of the tool as far as possible. Depress tool handle to load preform tail under the feedwheel.



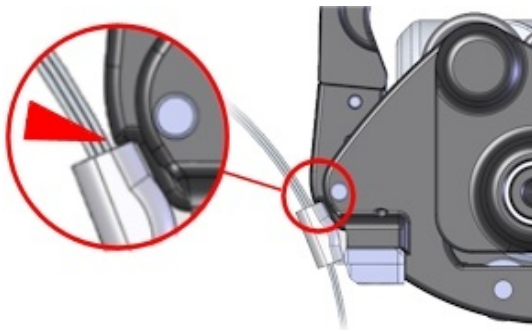
OPERATING INSTRUCTIONS, Continued

3. Press button once to activate the tension cycle. When tension cycle is complete, tool will automatically reverse slightly and re-engage J-Clamp.

Note: Press button once during the tension cycle for tool quick stop.



4. After cycle completes lift the tool upwards to nest (lock) the clamp seal with the cutter portion of the handle.



5. Continue to pull the handle forward to cut the tail piece off the completed clamp.

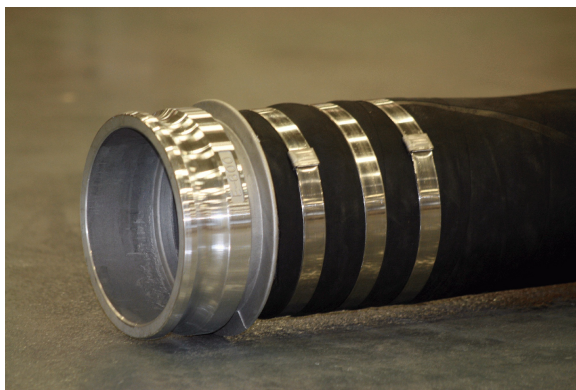
Cycle is complete. Remove scrap tail from tool by depressing handle or pressing the control button to run the tool until the tail is removed then press button again to stop tool.

Continue to apply additional clamps as required for your application needs.



6. Inspect and test the completed hose assembly. All hose assemblies must be tested to manufacturers specifications, NAHAD 5.7.1 test procedures for industrial hose and application requirements. See NAHAD 5.6.11 for additional information regarding preform clamps.

Reprinted text from NAHAD 5.6.11 and 5.7.1 can be found in this manual under Best Practices for Hose Assembly.



OPERATING INSTRUCTIONS FOR BENCH MOUNTED (J-Clamp Preforms Only)

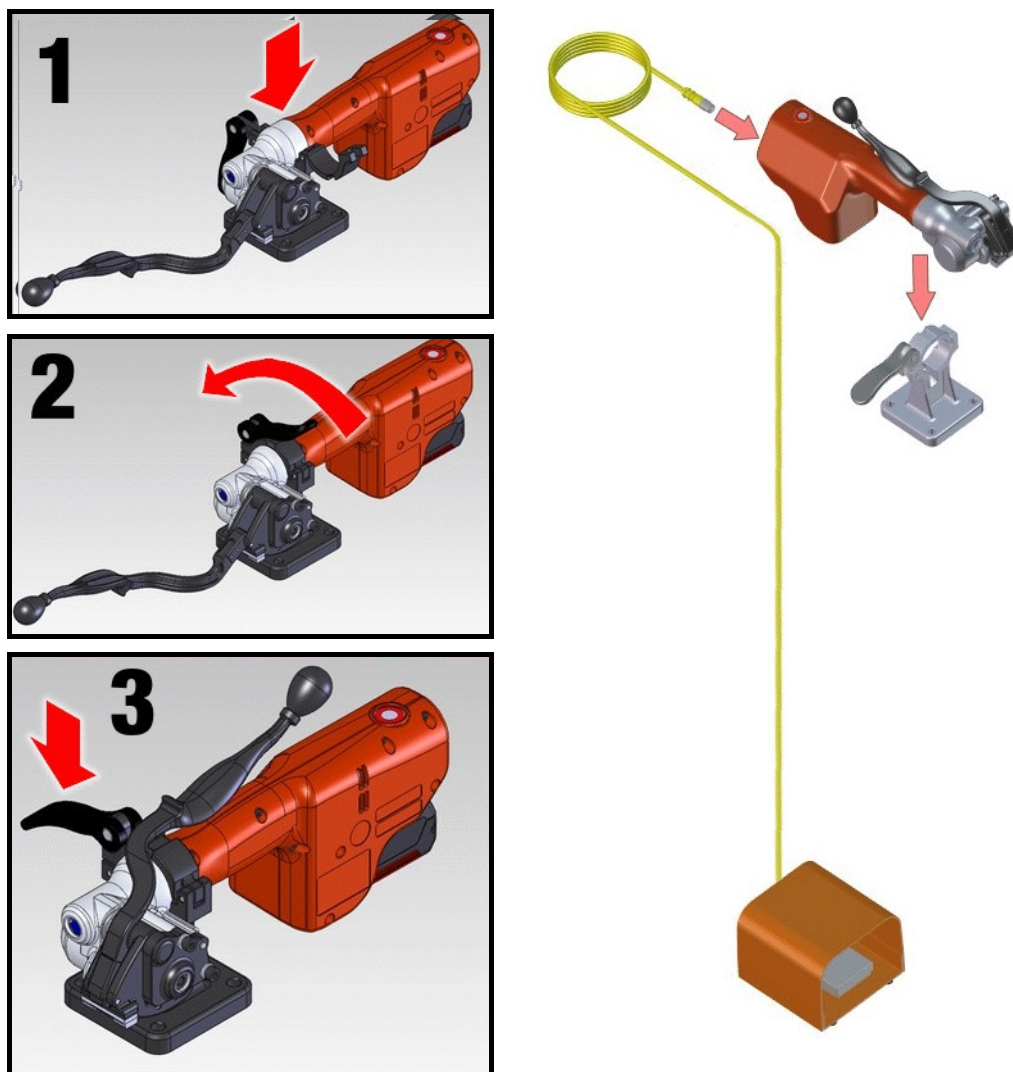
Review standard operating instructions before using a bench mounted tool.

1. Insert the tool into Benchmount fixture (Part No. 900400) as shown below.
2. Connect foot pedal plug (Part No. 800489) into the back of the tool.
3. Set desired tension level (review page 9 of this manual).
4. Place clamps on to the hose assembly. Insert clamp tail into front of tool. Press and hold the foot pedal until cycles completes.

Note: The foot pedal can be released at any time during tensioning to stop the cycle.

5. Once the cycle completes, roll the hose upward to nest (lock) the clamp seal.
6. Pull the handle forward to cut the tail piece off the completed clamp.
7. Press foot pedal and hold until the excess tail is easily and safely removed from the back side of the tool.

BENCH INSTALLATION



OPERATING INSTRUCTIONS FOR BAND AND BUCKLE

WARNING

Wear safety glasses and gloves. Stand to one side of the clamp when tensioning.
Keep hands away from Band and Buckle clamp during tensioning and folding tabs.
Inspect tool before every use for damage.
Make sure all bystanders are clear before proceeding.

1. Install Band and Buckle attachment and guide plate to base tool using two cap screws (p/n 800642).

Tighten cap screws to 115 in-lbs.

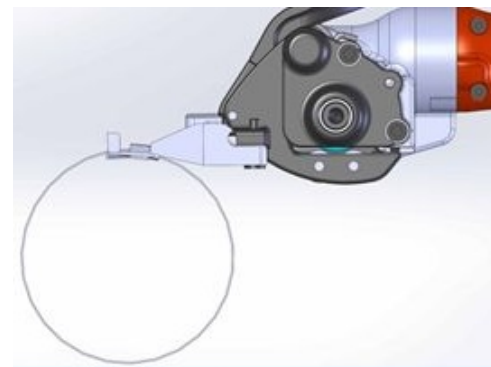


2. Squeeze handle and place the band tail into front slot, until the band is located between the feedwheel and rollers. Release the handle.

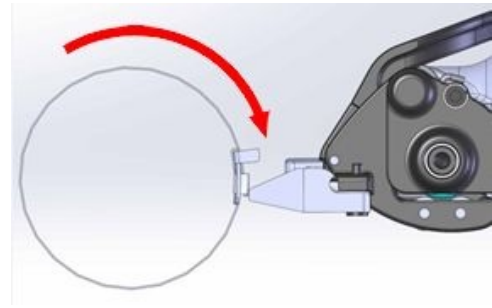


3. Select appropriate tension for application. Depress and release start button to start tension cycle.

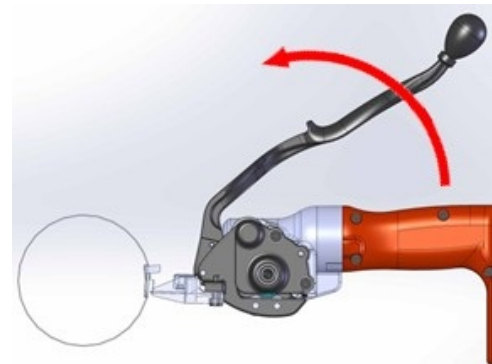
Notes: Holding the start button will cause the tool to go into reverse. The start button can be hit any time during tensioning to stop the cycle



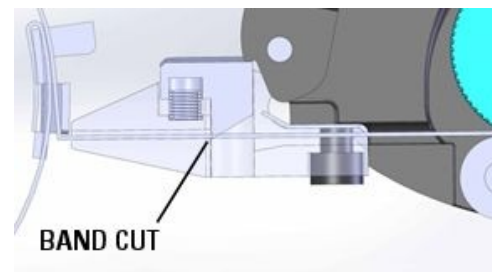
4. Once the cycle completes rotate tool or clamp until the band is rotated past 90 degrees.



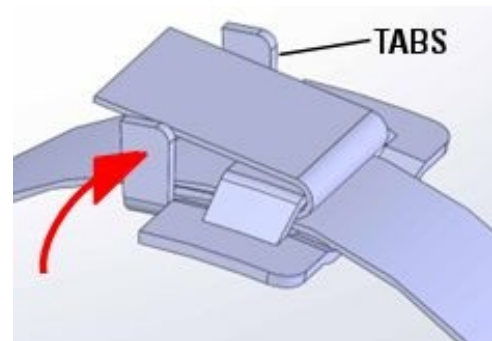
5. Push/pull the handle to actuate the cutter.



6. Once the band is cut the tail of the strap can be removed from the tool by squeezing the handle.



7. The tail is then folded until it lies below the tip of the tabs. Once this occurs the tabs are hammered down. Apply additional clamps as needed.



8. Inspect and test the completed hose assembly. All hoses must be tested to manufacturer's specifications, NAHAD 5.7.1 test procedures for Industrial hose and application requirements. See NAHAD 5.6.11 for additional information regarding preform clamps. Additional testing may be required for alternate applications.

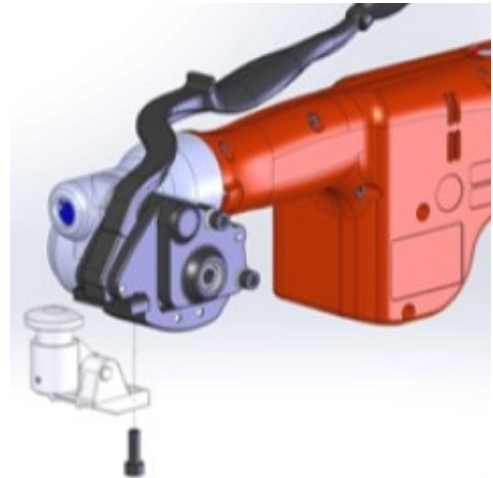
OPERATING INSTRUCTIONS FOR CENTER PUNCH CLAMPS

WARNING

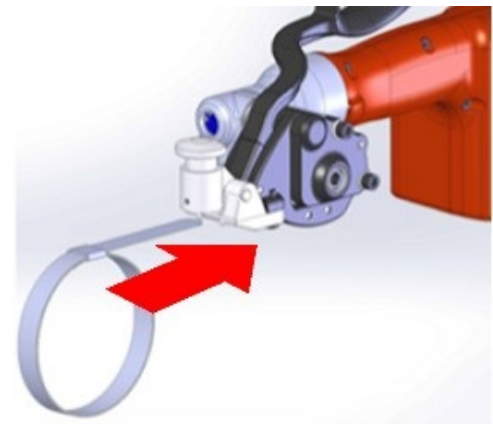
Wear safety glasses and gloves. Stand to one side of the clamp when tensioning.
Keep hands away from Band and Buckle clamp during tensioning and folding tabs.
Inspect tool before every use for damage.
Make sure all bystanders are clear before proceeding.

1. Install center-punch attachment to base tool using 2 cap screws (p/n 800642).

Tighten cap screws to 115 in-lbs.

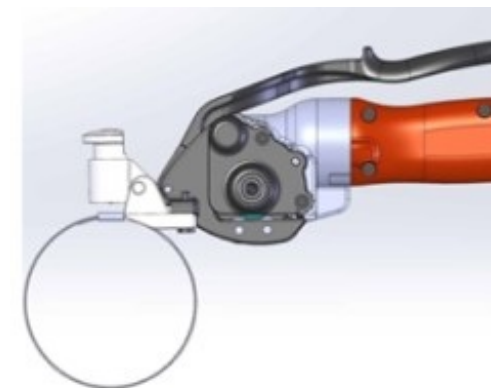


2. Squeeze handle and place the center punch preform band tail into front slot, until the band is located between the feedwheel and rollers and cannot be inserted any further. Release the handle. Place hose through clamp.

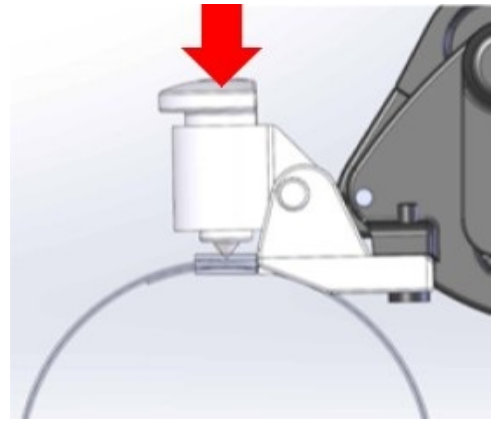
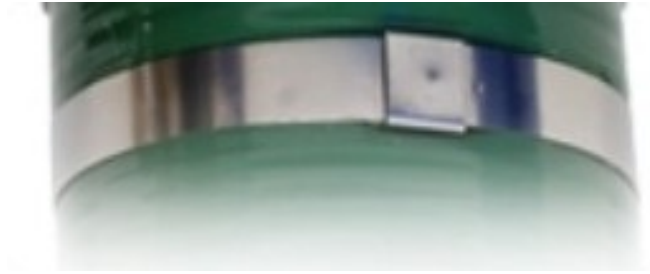


3. Press and release start button to start tension cycle.

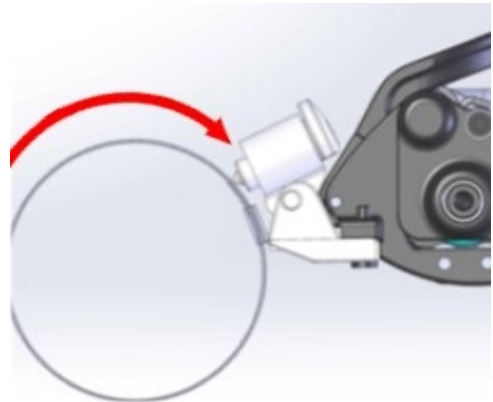
Notes: Holding the start button will cause the tool to go into reverse. The start button can be hit any time during tensioning to stop the cycle.



4. Once cycle is complete, rotate the tool or the clamp until the buckle tabs touch the tool attachment. Using a 2 lb. mallet apply an impact force to punch head twice to form an indentation in the seal.



5. Rotate tool or clamp repeatedly until the band snaps off. Squeeze handle and remove band tail. Apply additional clamps as needed.



6. Inspect and test the completed hose assembly. All hoses must be tested to manufacturer's specifications, NAHAD 5.7.1 test procedures for Industrial hose and application requirements. See NAHAD 5.6.11 for additional information regarding preform clamps.

Inactive Tool - Sleep Mode

- The GripClamp tool goes into sleep mode after approximately 6 minutes of inactivity to conserve the battery.
- The tool can be awakened by activating the pushbutton.
- If the operator places the clamp in the tool while asleep, the tool can be awakened with the FIRST pushbutton activation. After approximately 0.7 seconds, the tool will flash that it is awake. The NEXT pushbutton activation will start the cycle.
 - If the pushbutton is continuously held, the tool will not activate.
 - The tool will only activate with a double pushbutton activation from sleep mode. Push the button, let go of the button, push the button a second time, and the tool will then activate a run cycle.

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BEST PRACTICES FOR HOSE ASSEMBLY

NAHAD Handbook, Section 5.6.11 (reprint)

5.6.11 Clamp, Preformed

General Uses:

Versatile and commonly used to secure hose to many types of fittings, including short, medium and long shank fittings, as well as cam and groove fittings. Can be used with a hand tool in the field, or on site with a hand or automatic production hose clamping machine.

Limitations:

Do not use for steam or other applications where clamp re-tightening is required.

Warnings:

It is recommended that more than one clamp be used if the hose shank length or fitting design will allow.

It is necessary to properly offset buckles 180 degrees to avoid potential leak paths. Improperly tightened clamps or an insufficient number of clamps used per fitting may result in a potentially dangerous hose assembly. A tighter clamp keeps the fitting more secure, but excess tension could damage the hose.

Preformed clamp design, metal thickness, band width, materials and tension will all have an effect on assembly pressure ratings. Please contact your NAHAD Hose Safety Institute Distributor for guidance.

BEST PRACTICES FOR HOSE ASSEMBLY

NAHAD Handbook, Section 5.7.1 (reprint)

5.7.1. Hydrostatic Proof Pressure Tests

A proof test is typically conducted for 5 minutes under pressure at twice the working pressure for a new hose assembly, and one and a half times the working pressure for used assemblies. For assembly testing, the rating of the component with the lowest rated working pressure determines the working pressure of the assembly.

Recommended Procedure

For Industrial hose assemblies, it is strongly recommended to use hydrostatic pressure test methods instead of pneumatic proof testing for safety reasons! Testing with gaseous materials such as nitrogen or air is absolutely prohibited and can cause injury or death.

A hydrostatic pressure test requires either a hand pump, a power driven hydraulic pump, or an accumulator system. Connect the hose assembly to the test pump in a straight fashion, assuring a leak tight connection. It is extremely important that fittings, adapters, and any other mating components are rated for the pressure value of the test. It is recommended that the hose assembly be secured in an encapsulated tank that will withstand the pressure, and secure it with steel rods or straps close to each end and at ten-foot intervals along the length of the hose. This will prevent it from "whipping" if a failure occurs. The securing rods or straps must be anchored firmly to the test structure, but should not contact the hose. The hose must be free to move slightly when pressure is applied.

An outlet valve should be applied to the hose end of the assembly that opposes the test pump end of the assembly. Unless otherwise specified by the customer, the test media should be water. Fill the hose with water while the outlet end is raised and the valve slightly opened to bleed all of the air from the system. Use the outlet valve to bleed all air remaining in the hose. When all the air has been expelled, close the outlet valve and lower the raised end.

***This is very important as a safety measure because expansion of air compressed in the hose, when suddenly released by bursting or other failure might result in a serious accident. ***

Next, for reference, mark a line behind the couplings which is at the end of the ferrule, clamp, band, etc. Then gradually raise the pressure to the desired pressure rating. Hold the pressure for the time dictated by hose type and conduct a visual inspection. As the pressure is raised, watch for visual indications of permanent deformation, leakage, and coupling slippage. If any of these are noted it is cause for rejection. After the test is complete, relieve the test pressure before disconnecting the hose assembly from the test equipment and drain the water from the hose. The hose may be flushed with alcohol if all of the water must be removed.

WARNINGWARNING**WARNING**WARNING**WARNING**

Wherever particular skills are required, only specially trained persons should engage in those applications or testing procedures. Failure to do so may result in damage to the hose assembly or to other personal property and, more importantly, may also result in serious bodily injury. Hoses must be properly cleaned prior to inspection and testing. This will prevent unexpected reactions between conveyants and the test media. Always wear safety glasses, gloves, and protective clothing to protect from leaks or high pressure spray. Also, use shields to protect people in the work area in the event of a hose burst, spray, or coupling blow-off.

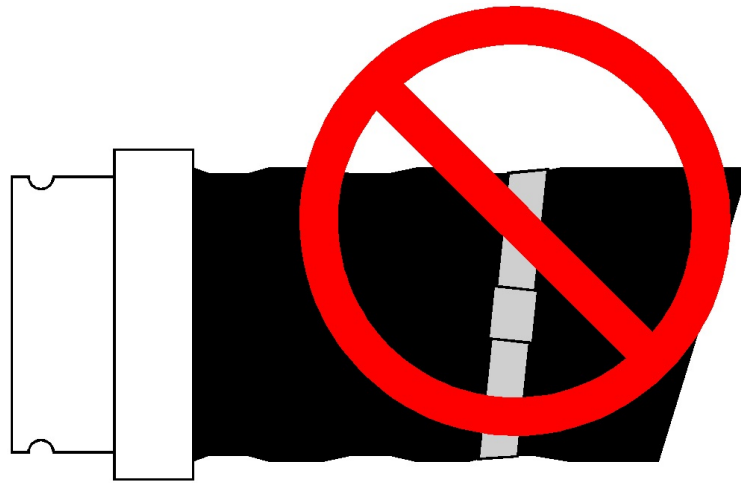
It is recommended to never stand in front of, over, or behind the ends of a hose assembly during pressure testing. Also make sure that the hose is sufficiently shielded during pressure testing to stop a coupling in case of a coupling blow-off.

Any failure during testing is likely to be of an explosive nature!

BEST PRACTICES FOR HOSE ASSEMBLY

CLAMP PLACEMENT

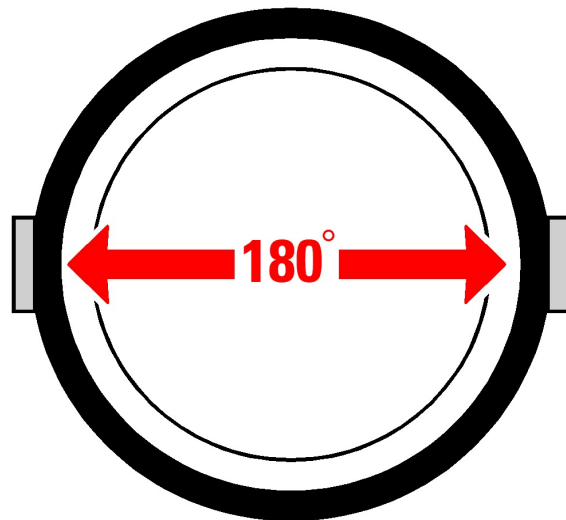
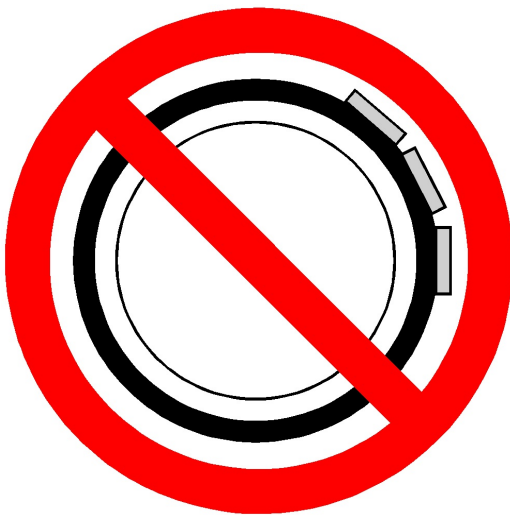
Never use clamps that are assembled improperly. Remove and replace the clamp.



CLAMP ORIENTATION

It is recommended that adjacent clamps be installed with the seals opposed to each other at 180°.

Never assemble clamps with the seals oriented in the same direction.



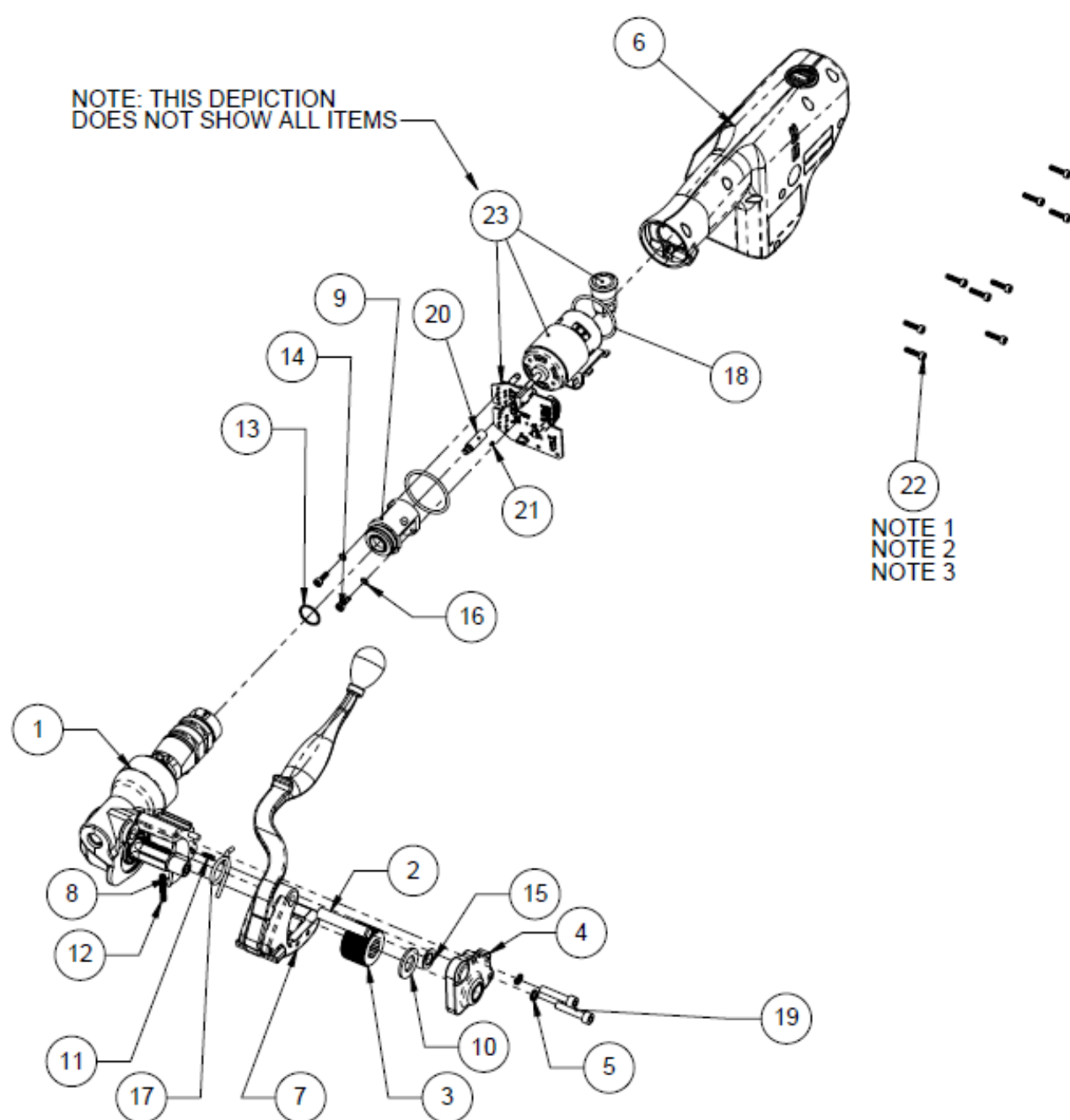
GRIPCLAMP

801999-6

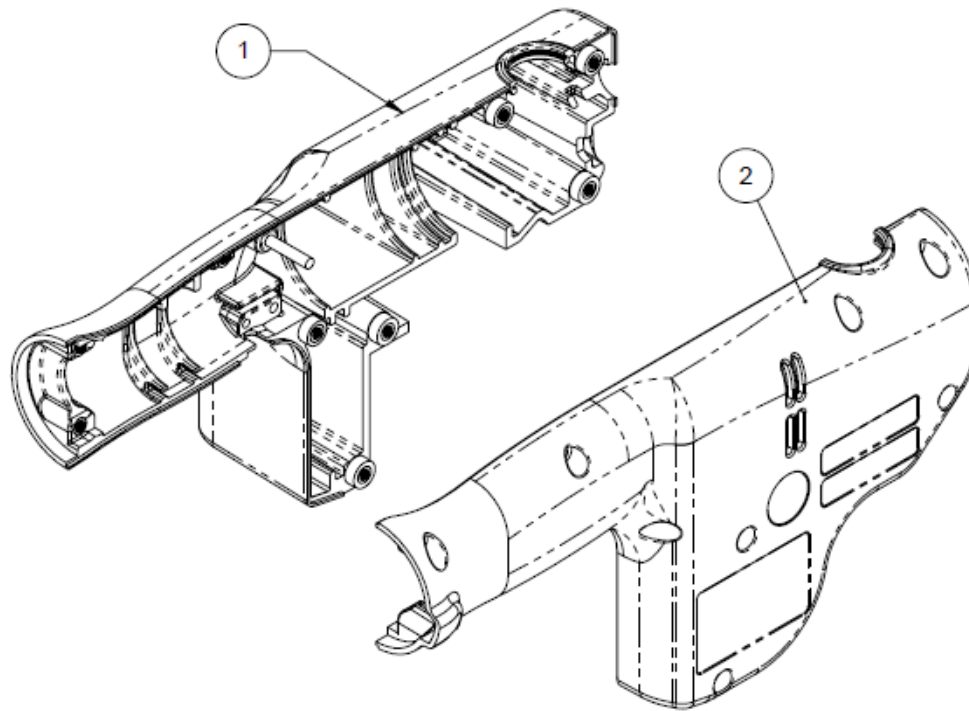
KEY	QTY.	PART NO.	DESCRIPTION
1	1	PJ-002078	GEAR TRAIN ASSEMBLY
2	1	610330	M10 X 55 DOWEL PIN (UNDERSIZED)
3	1	800481	FEEDWHEEL
4	1	800451	SIDE PLATE ASSEMBLY
5	2	005464	M6 LOCKWASHER (ZINC)
6	1	800517	PLASTIC HOUSING ASSY
7	1	800516	NOSE ASSEMBLY
8	1	800510	STRAP STOP
9	1	800396	MOTOR ADAPTER
10	1	800509	WASHER
11	1	800508	SHEPS M4 X 12
12	1	800433	SHSS M5 X 30
13	1	800434	O-RING
14	2	800432	SHCS M4 X 12
15	1	800625	WASHER
16	2	800460	WASHER
17	1	800624	FOOT SPRING
18	2	427103	ORING SAE#130
19	2	162374	M6 X 30 SHCS (CLASS 12.9; DACROMET) DIN 912
20	1	800404	DRIVE SHAFT
21	1	800431	SSS M3-0.5X3 DIN 916 RC45 ZN CUP
22	9	800429	SHCS M4 X 16
23	1	20100001899	GRIPCLAMP TOP LEVEL ELECTRICAL ASSEMBLY

NOTES:

- 1.) TORQUE: 22 IN-LBS (2.5 Nm)
- 2.) LOCTITE 680 OR EQUIVALENT
- 3.) WHEN REPLACING ALWAYS USE NEW COMPONENTS



ASSEMBLY - COVERS (800517)



⚠ WARNING

Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

PARTS LIST - GEAR HOUSING ASSEMBLY (800499)

KEY	QTY.	PART NO.	DESCRIPTION
1	1	PJ-000422	GEAR HOUSING-GRIPCLAMP
2	1	008752	N5000-62
3	1	008751	NEEDLE ROLLER BEARING
4	1	800399	WORM
5	1	008756	7203W BEARING
6	1	800436	RETAINING RING
7	1	024038	BEARING
8	1	423533	THRUST WASHER
9	1	423501	FEED WHEEL SHAFT
10	1	800400	WORM GEAR
11	1	423515	BEARING
12	1	250731	TRUARC RING
13	1	423531	SAE 18 ORING
14	1	256755	SAE 30 ORING
15	1	800120	FLANGE BEARING
16	1	800604	SEAL
17	1	800438	DOWEL PIN M5 X 20
18	1	800626	SHIM
19	1	800448	COVER

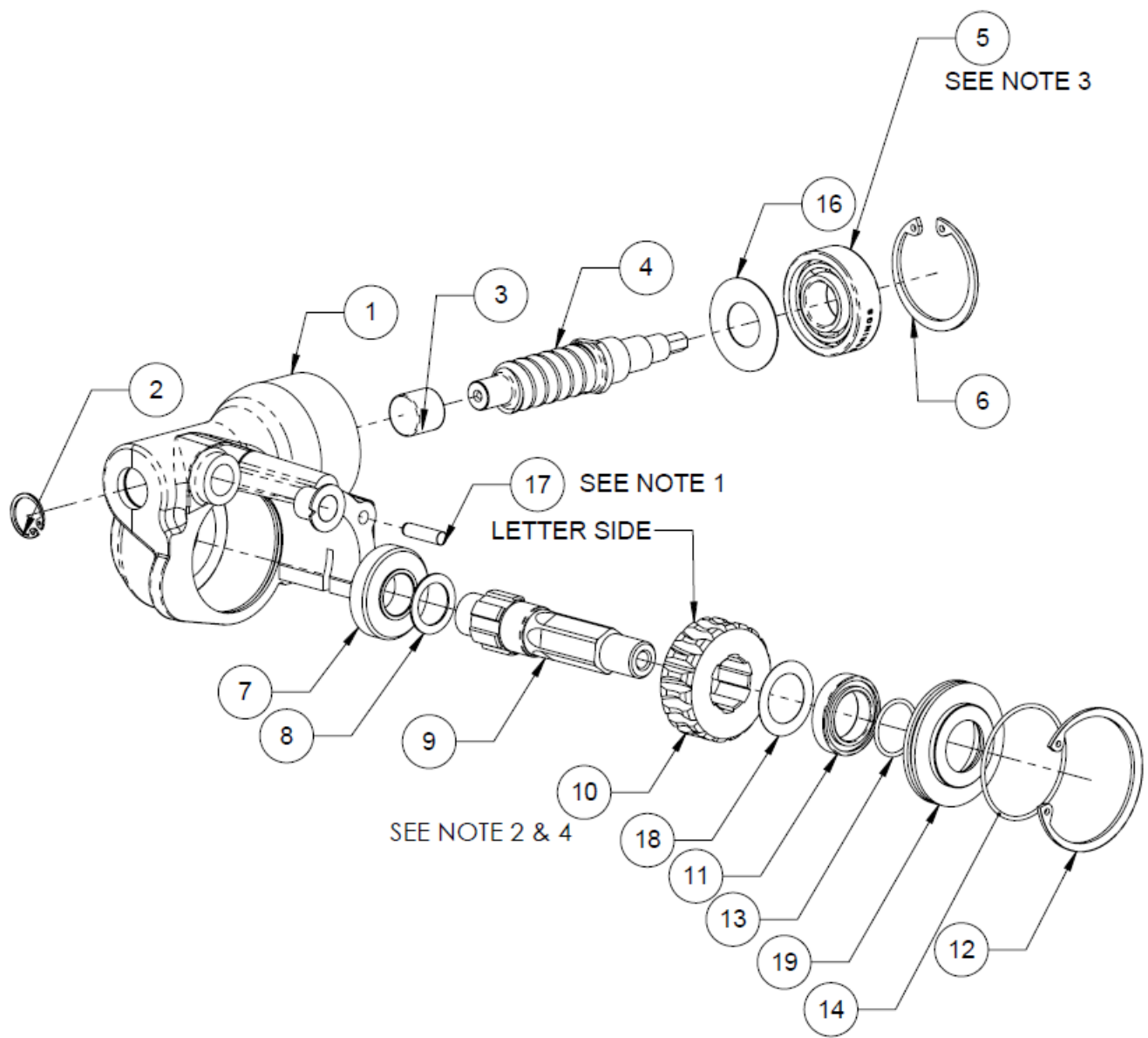
NOTES:

1. APPLY ONE DROP OF LOCTITE #609 (GREEN) SELANT TO CLEANED PARTS. ALLOW 12 HOURS TO SET IF POSSIBLE
2. SIDE WITH LETTERS FACE INTO GEAR HOUSING
3. SEE BELOW PICTURE FOR BEARING DIRECTION
4. MATCHING GEAR SET



⚠ WARNING

Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.



PARTS LIST - NOSE ASSEMBLY (800516)

ITEM NO.	QTY.	PART NUMBER	DESCRIPTION
1	1	800476	3/16 x 1.25 Dowel Pin
2	1	800470	ROLLER
3	2	800471	1/4" x 1.5 Dowel Pin
4	1	800501	Handle Assembly
5	1	800469	NOSE
6	1	800804	ROLLER

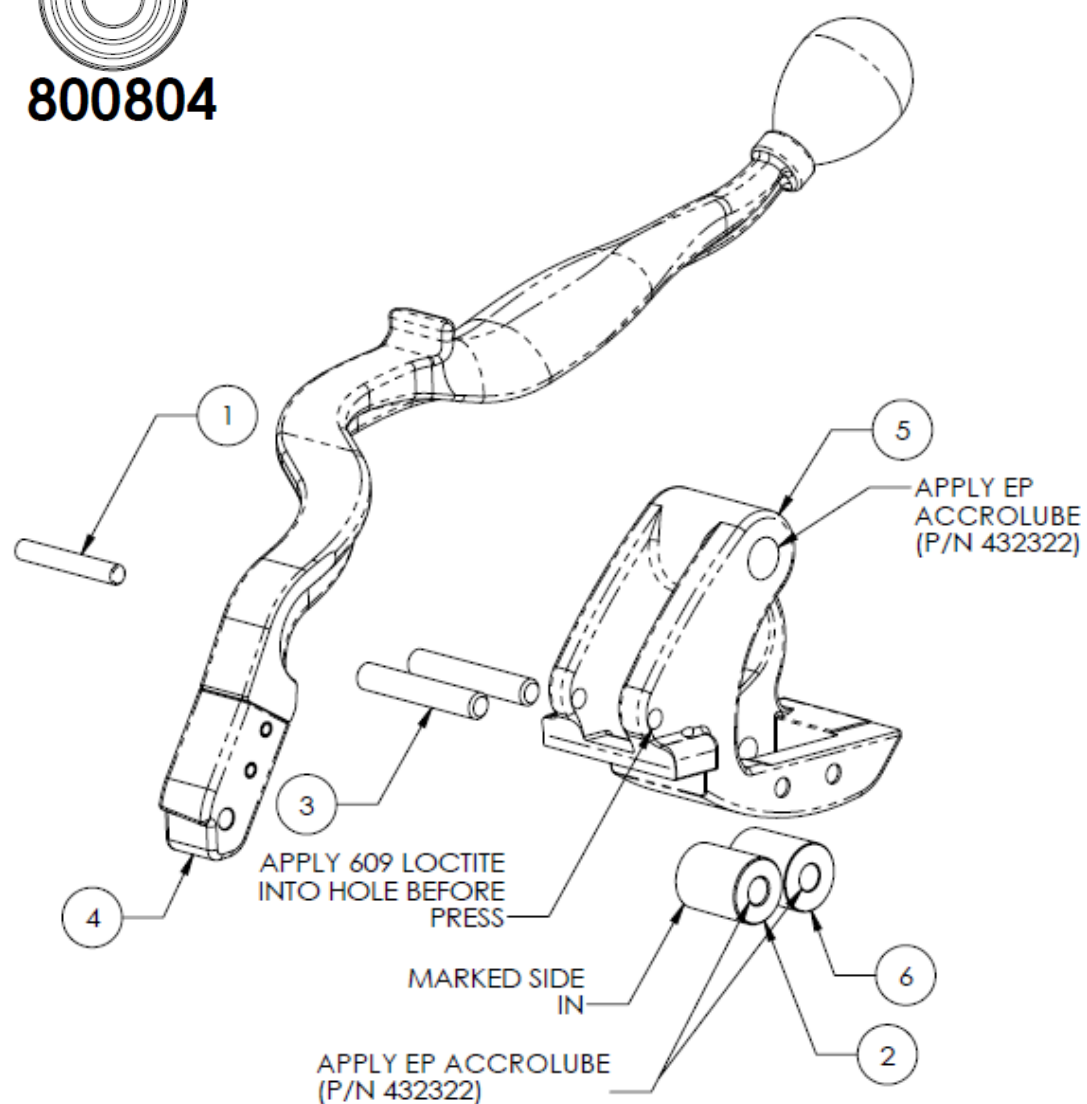
ROLLER IDENTIFICATION



800470



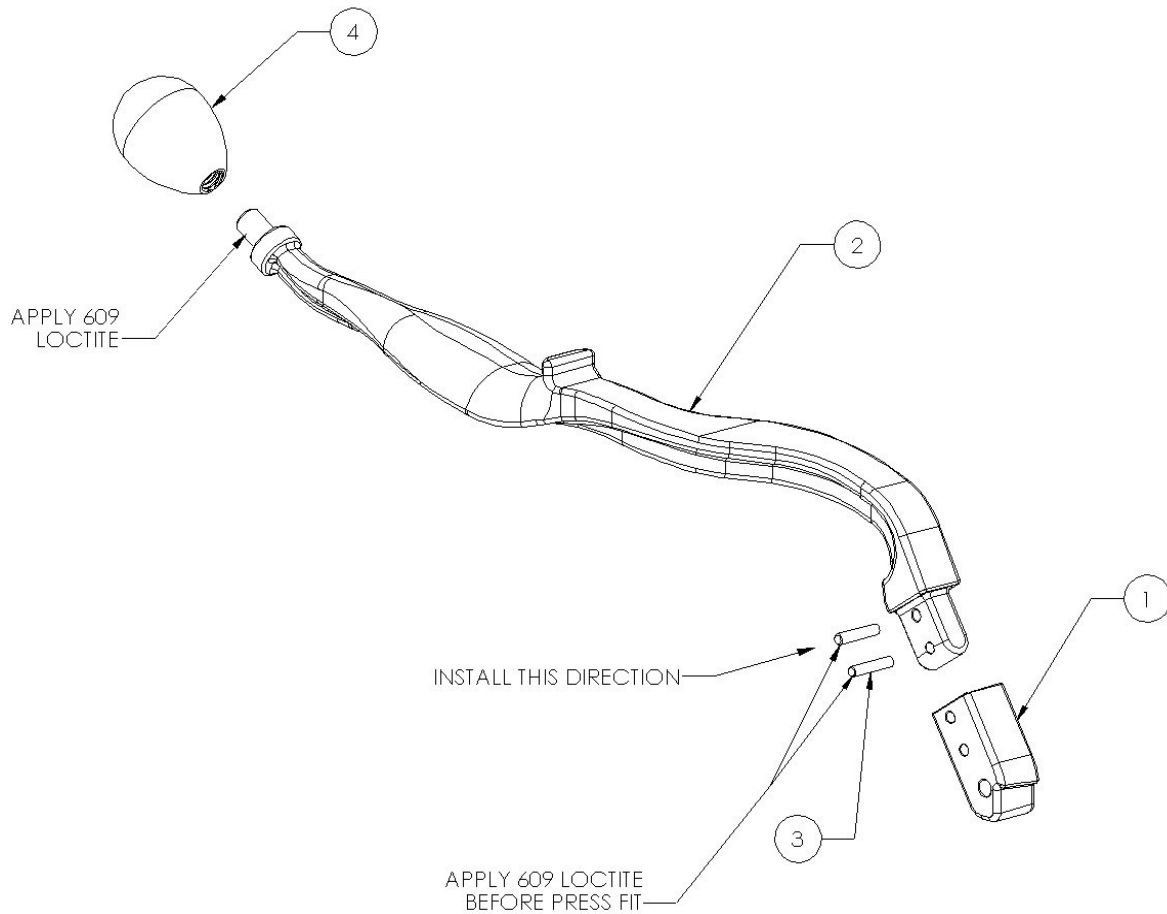
800804



PARTS LIST - HANDLE ASSEMBLY (800501)

KEY	P/N	DESCRIPTION	QTY
1	800475	CUTTER	1
2	800478	HANDLE	1
3	800480	1/8 X .625 DOWEL PIN	2
4	800479	BALL KNOB	1

- When ordering parts please indicate tool model, part number and description.



⚠ WARNING

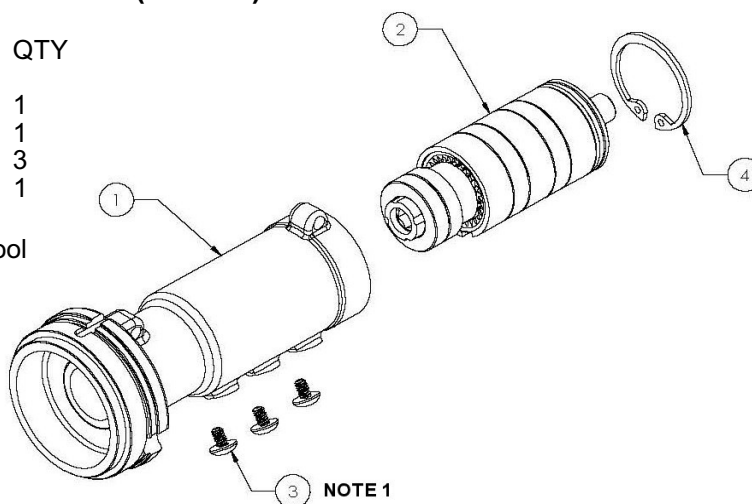
Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

PARTS LIST - GEAR BODY ASSEMBLY (800443)

KEY	P/N	DESCRIPTION	QTY
1	800603	GEAR BODY	1
2	800453	GEAR RING	1
3	800325	SBHCS M4 X 5	3
4	800454	RING	1

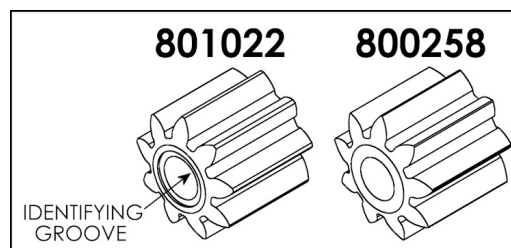
- When ordering parts please indicate tool model, part number and description.

Note 1: Loctite 222 or Equivalent.



PARTS LIST - GEAR PACK (800453)

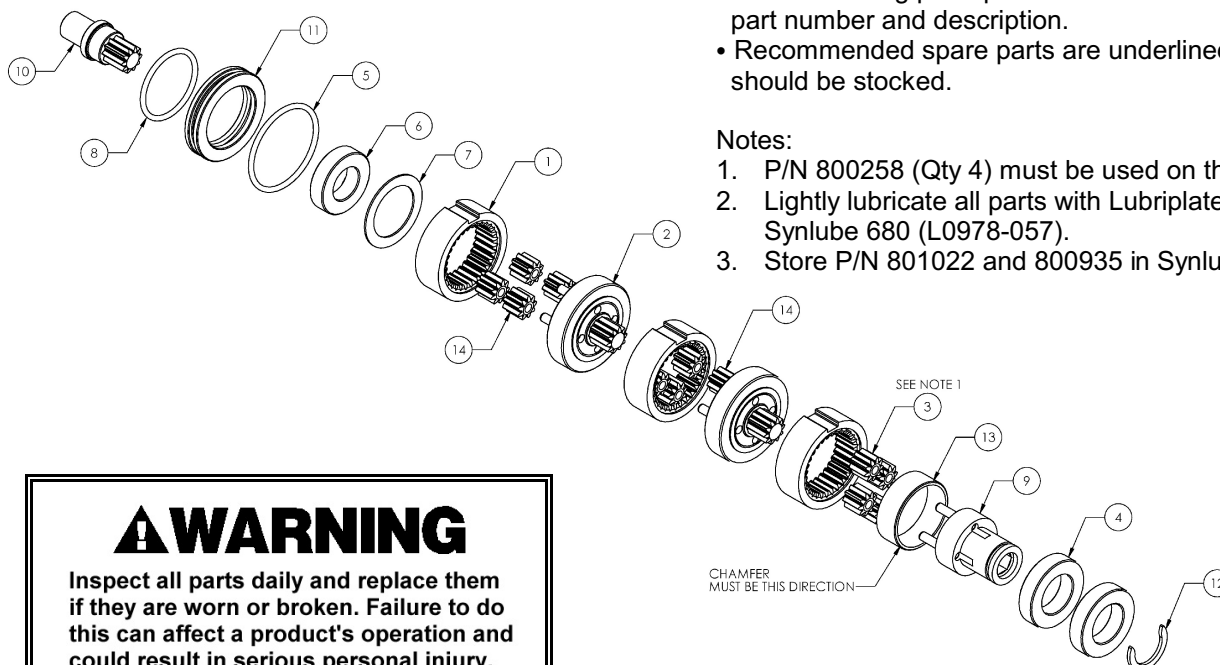
KEY	P/N	DESCRIPTION	QTY
1	800935	RING GEAR	3
2	800251	IDLER CARRIER ASSEMBLY	2
3	800258	IDLER	4
4	800295	12MM BALL BEARING	2
5	800323	O-RING	1
6	429266	10mm BALL BEARING	1
7	800318	5/8 X 7/8 X.020 SHIM	1
8	800324	O-RING	1
9	800253	IDLER CARRIER ASSEMBLY	1
10	800403	DRIVE PINION ASSEMBLY	1
11	800407	GEAR END PLATE	1
12	800458	RETAINING RING	1
13	800457	SPACER	1
14	801022	IDLER	8



- When ordering parts please indicate tool model, part number and description.
- Recommended spare parts are underlined and should be stocked.

Notes:

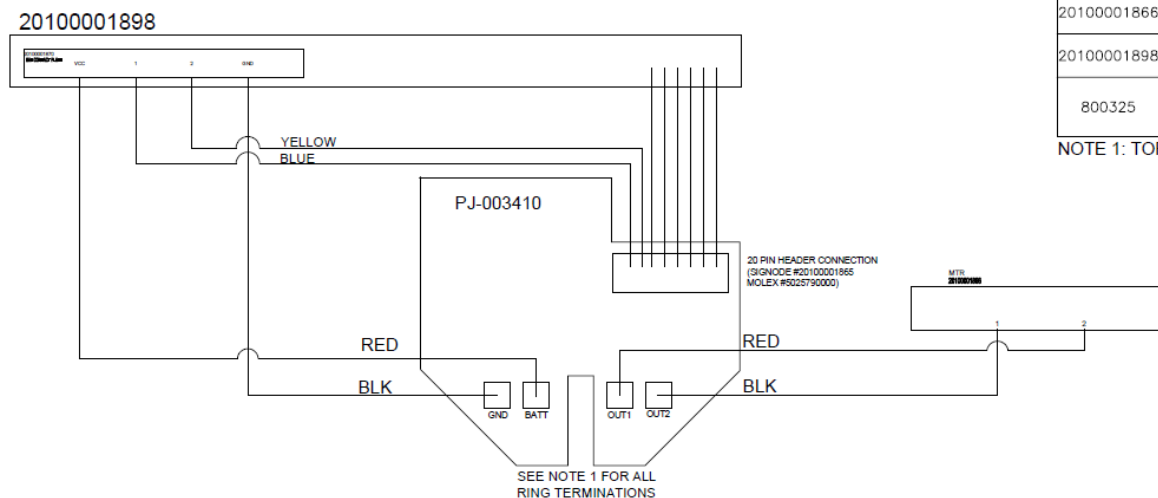
1. P/N 800258 (Qty 4) must be used on this stage.
2. Lightly lubricate all parts with Lubriplate Synlube 680 (L0978-057).
3. Store P/N 801022 and 800935 in Synlube 680.



WARNING

Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

ELECTRICAL ASSEMBLY (20100001899)



BOM		
PART NO	DESC	QTY
PJ-003410	GRIPCLAMP V3.0 PCBA, PROGRAMMED	1
20100001866	MAIN MOTOR ASSEMBLY WITH SPADES	1
20100001898	GRIPCLAMP WIRE HEADER ASSEMBLY	1
800325	BHCS M4X0.7X5 ISO7380-1 CLB 2N FTD	4

NOTE 1: TORQUE M4 SCREWS TO 11 IN-LBS

⚠ WARNING

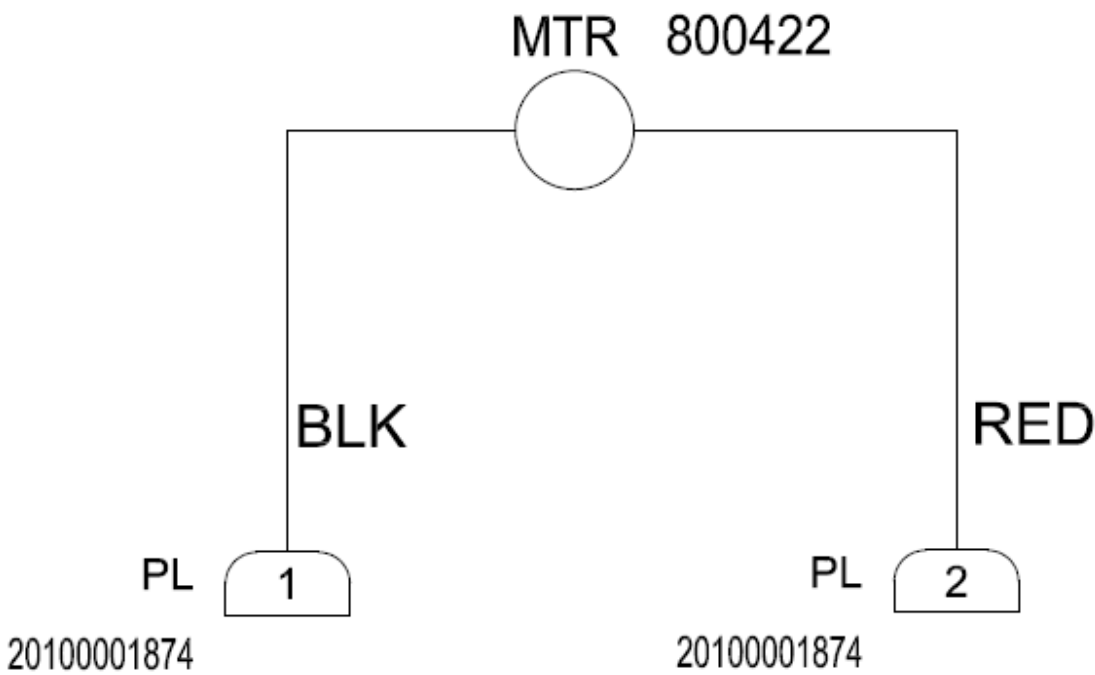
Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

MOTOR ASSEMBLY (20100001866)

BOM		
PART #	DESC	QTY
800422	BRUSHED DC MOTOR	1
20100001874	14 AWG WIRE W/ RING TERMINAL 8 STUD (M4)	2

WIRE SPECIFICATIONS		
WIRE #	LENGTH (mm)	COLOR
1	210	BLK
2	210	RED

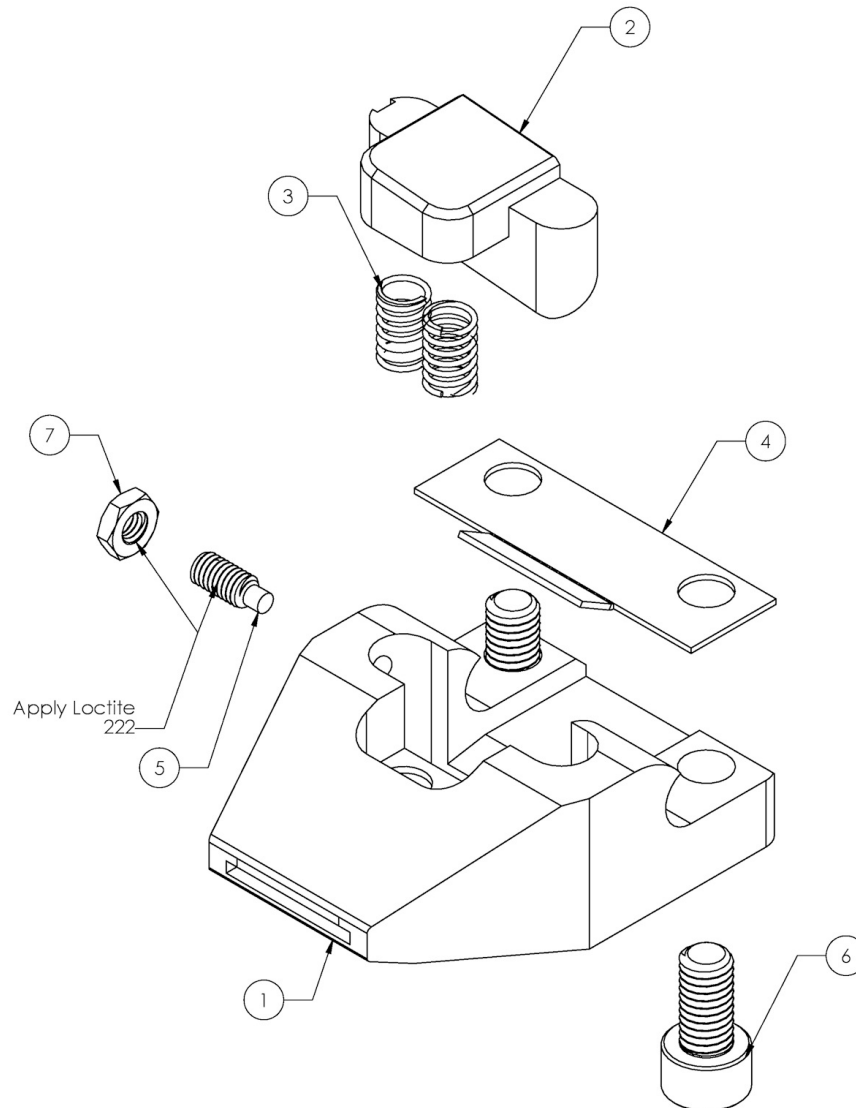
- NOTE:**
- 1. ALL WIRES ARE 14 GAUGE
 - 2. TERMINALS ARE AN 8 STUD (M4) CLOSED RING



PARTS LIST - BAND & BUCKLE ATTACHMENT (800637)

KEY	P/N	DESCRIPTION	QTY
1	800634	BASE	1
2	800633	BLADE	1
3	800635	COMPRESSION SPRING	2
4	800644	GUIDE PLATE	1
5	800643	M4 X .7 X 10 DPSS	1
6	800642	M6 X 12MM SHCS	2
7	800647	M4 x .7 THIN NUT	1

- When ordering parts please indicate tool model, part number and description.
- Tighten 800642 to 132 in-lbs.



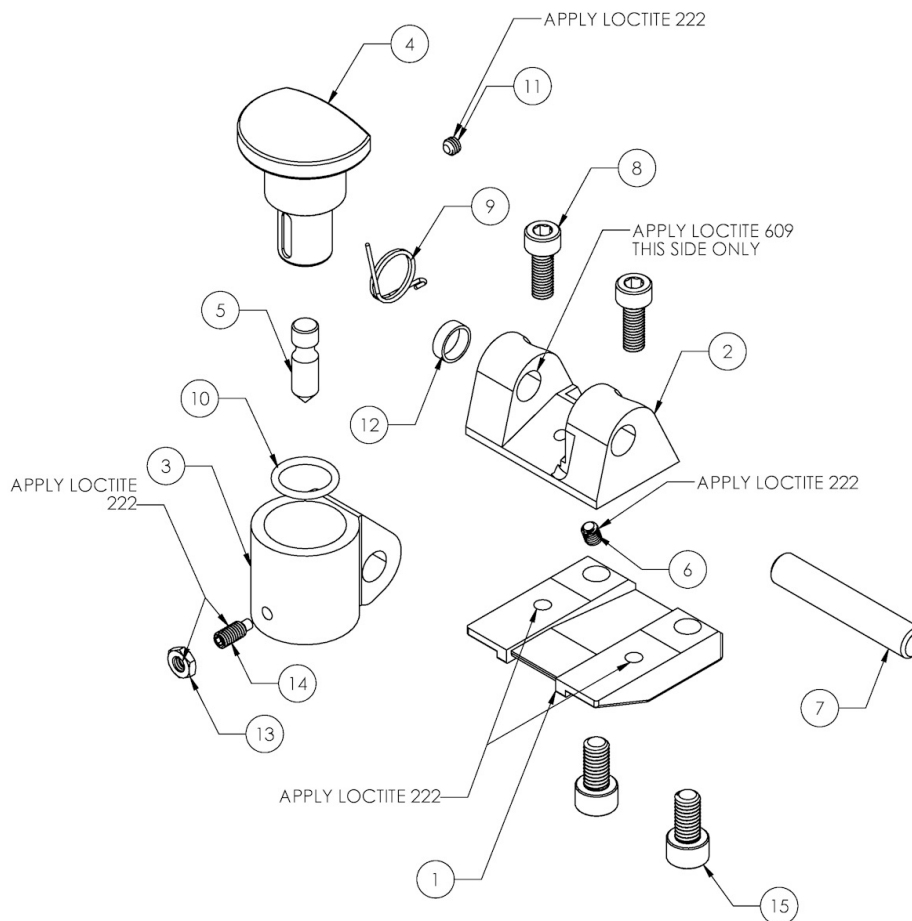
⚠ WARNING

Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

PARTS LIST - CENTER PUNCH ATTACHMENT (800638)

KEY	P/N	DESCRIPTION	QTY
1	800632	BASE	1
2	800630	CRADLE	1
3	800631	PUNCH GUIDE	1
4	800645	PUNCH	1
5	800641	STRIKER	1
6	800628	M4 X .7 5MM FPSS	1
7	800649	5/16 X 1 DOWEL PIN	1
8	800781	M5 X .8 X 14MM	2
9	800646	SPRING	1
10	800629	O-RING	1
11	800648	M4 X .7 X 3MM CPSS	1
12	800636	SPACER	1
13	800647	M4 X .7 THIN NUT	1
14	800643	M4 X .7 X 10 DPSS	1
15	800642	M6 X 12MM SHCS	2

- When ordering parts please indicate tool model, part number and description.
- Tighten 800642 to 132 in-lbs.

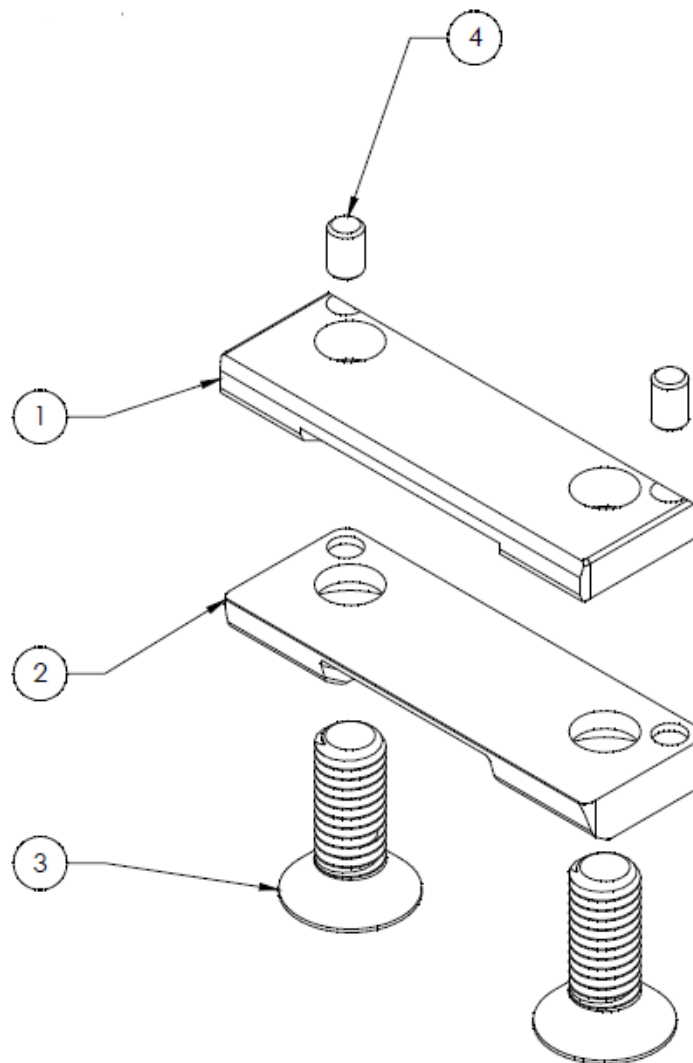


⚠ WARNING

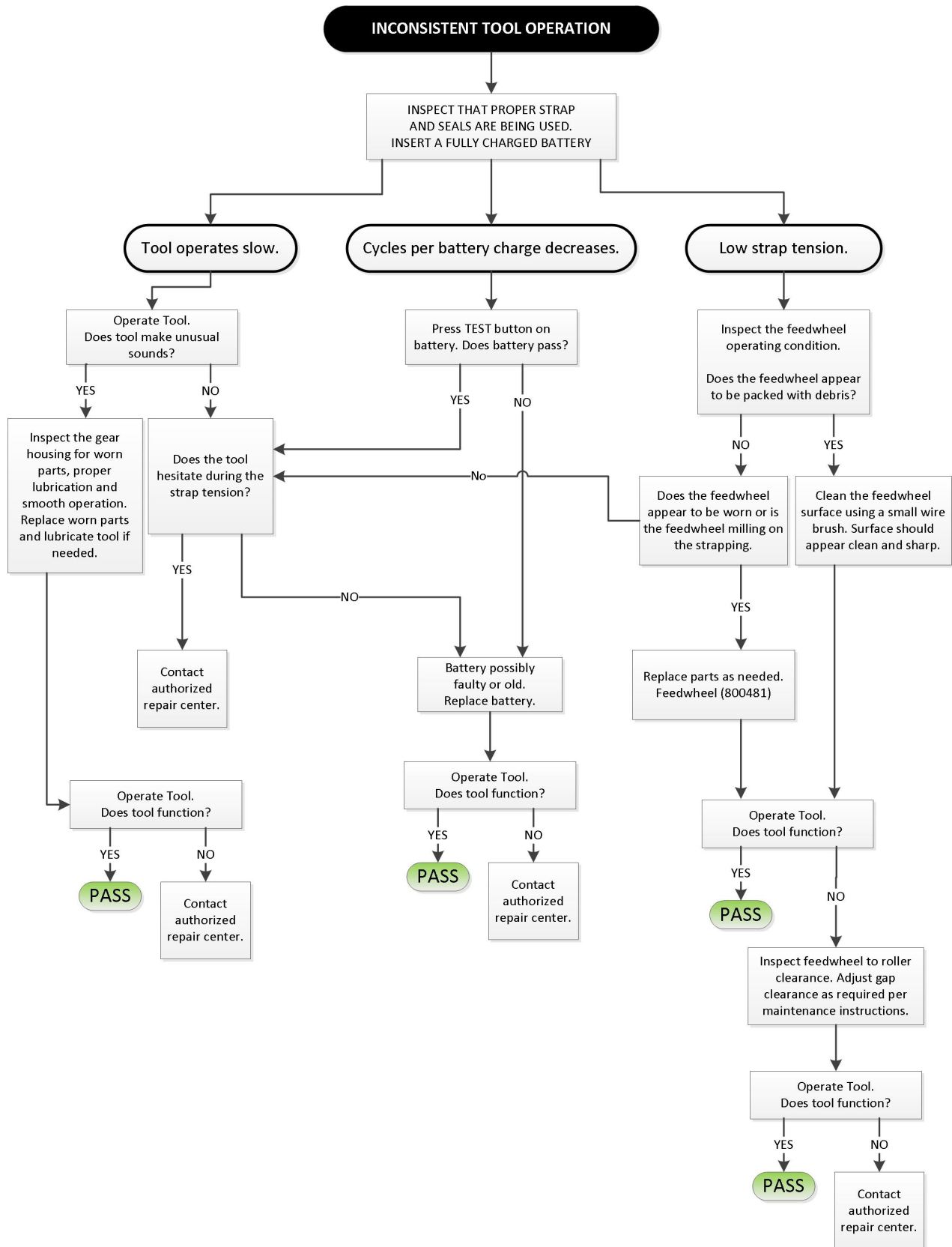
Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

J ATTACHMENT (800802)

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	800473	GUIDE	1
2	800515	SHEAR	1
3	800474	6 mm x 16 mm SFHCS	2
4	800502	1/8 x .188 DOWEL PIN	2



TROUBLESHOOTING GUIDE

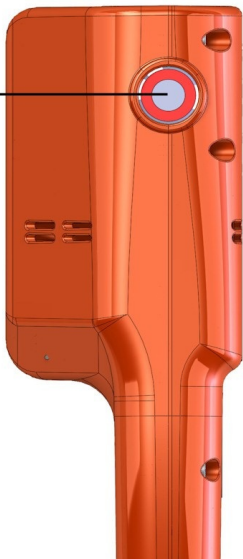


TROUBLESHOOTING - INDICATOR LIGHTS



	Charger is plugged in and receiving power.
	Battery is receiving a Quick Charge.
	Battery is too hot or cold to receive charge. Charging starts when the battery reaches the proper temperature.
	Battery cannot accept a charge. Replace battery.

OPERATION
BUTTON



LOW BATTERY CHARGE LED flashes 1 second on, one second off, etc. (tool will continue to operate, charged battery will be needed soon)
DEAD BATTERY LED flashes on for 5 seconds, 5 seconds off etc. (tool will not operator, charged battery required)
THERMAL OVERLOAD LED flashes .25 second on, .25 second off etc. (tool will not operator, ~5 minute cool off period is needed)

TOOL MAINTENANCE

GENERAL

The most common reason for poor tool performance and incorrectly J-Locked clamps is improper tool maintenance. The easiest way to determine if a tool is performing correctly is by inspecting and testing the hose assembly. Having a tool maintenance program is a simple task which consists of three parts. First, a quick daily inspection of the tool for any worn or broken parts. Secondly, keep each tool on a schedule of service intervals for cleaning and lubrication. Third, when problems do occur, use the troubleshooting guide to properly determine and fix problems before they lead to more serious tool conditions. Each of these three tasks have been outlined for this particular tool, read and understand all information for improving the life and performance of the tool.

TOOL INSPECTION

Visually inspect the exterior of the tool on a daily basis. Decreased tool life can be prevented by early detection of broken parts. Replace all broken parts with new parts. Review any part removal, replacement & adjustment instructions found in this manual.

SERVICE INTERVALS

Tool component wear is affected by the environment, clamp/seal quantity and band gauge which the tool is subjected to. All critical moving components of the tool should be inspected periodically. Broken parts can increase cutting effort, leading to additional component wear and produce lower joint strength.

Inspect the components of the tensioning/cutting mechanism when:

- A. J-Lock is not all formed or formed improperly.
- B. Tensioning effort seems sluggish or tool has difficulty cutting band.
- C. The number of cycles from one battery charge decreases.
- D. When scheduled.

TOOL LUBRICATION

Strapbinder tools use a variety of greases and oils, all of which can be ordered through Strapbinder. When ordering indicate tool model, part number and name.

THREAD SEALANTS

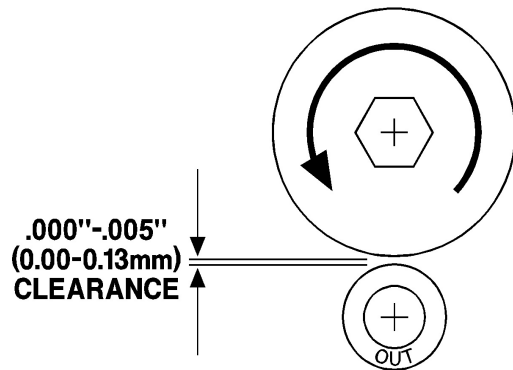
Strapbinder tools are assembled using a variety of thread sealants, all of which can be ordered through Strapbinder service using the appropriate description and part number.

PART #	DESCRIPTION	AREA OF USE
LUBRICANTS		
008556	LS-1236 AIR LINE OIL	AIR MOTORS, AIR VALVES
422792	WHITE LUBRIPLATE GR-132 GREASE	PNEUMATIC PARTS, AIR CYLINDERS, AIR VALVES, O-RINGS
422793	BLACK LUBRIPLATE 3000W GREASE	MOVING EXTERNAL PARTS, JAWS, LINKS
425239	RED MOBILITH SHC 007 GREASE	INTERNAL GEARS
432322	EP ACCROLUBE GREASE	HIGH FRICTION CONTACT PARTS
ADHESIVES		
274111	LOCTITE #380 BLACK MAX	PERMANENT, FLAT SURFACE PART CONTACT
422794	LOCTITE #222 PURPLE	LOW STRENGTH, SCREWS 1/4" (6MM) OR SMALLER SIZES
422795	LOCTITE #242 BLUE	MEDIUM STRENGTH, SCREWS 5/16" (8MM) OR LARGER SIZES
422796	LOCTITE #271 RED	HIGH STRENGTH, SEMI-PERMANENT SCREW APPLICATION
422797	LOCTITE #609 GREEN	PERMANENT, CURVED SURFACE PART CONTACT
CLEANING BRUSHES		
023963	SMALL BRUSH	FEEDWHEEL & GRIPPER TEETH
269589	LARGE BRUSH	FEEDWHEEL & GRIPPER TEETH

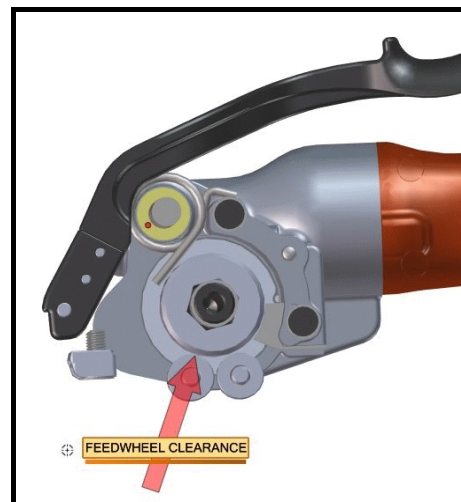
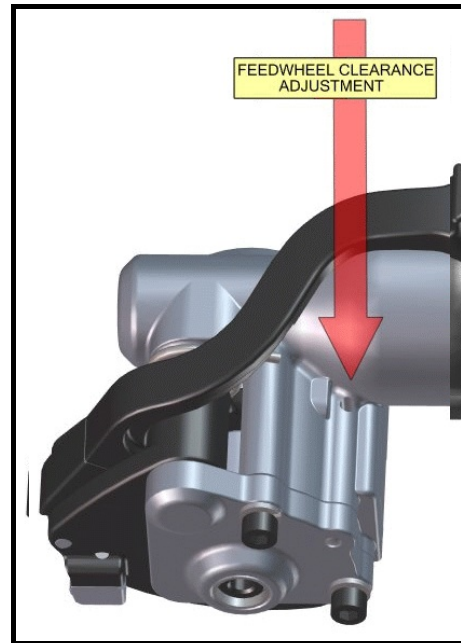
MAINTENANCE PROCEDURES - FEEDWHEEL CLEARANCE

The feedwheel to roller clearance may require readjustment if the feedwheel or roller has been replaced. The feedwheel clearance should also be inspected during routine tool maintenance procedures. Adjust the feedwheel clearance as follows:

1. Using a 2.5mm hex wrench turn the adjustment screw which can be accessed through the top of the tool as shown.
2. Turn the adjustment screw clockwise for greater clearance and counter-clockwise for less clearance. Turn the adjustment screw only in 1/8 turn increments. After each 1/8 turn, test the tool for proper operation.



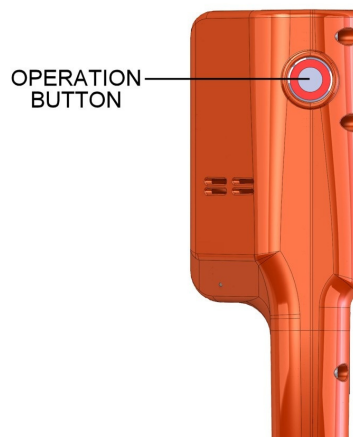
NOTE: Improper gap clearance may increase chance of milling of clamp material.



MAINTENANCE PROCEDURES - CYCLE COUNTER

Use the following procedure to access the cycle count of the tool. This is the total number of times the tool has been operated and can aid in diagnosing problems or service schedules.

The tool counts from 0 to 999,999. The counter displays the number of tool cycles by flashing the Operation Button LED with an approximate 2 second delay between digits (LED does not illuminate). **The counter will always display 6 digits even if some digits are leading zeros.**



1. Remove battery from tool.
2. Insert battery while holding the operation button. The button will flash green 5 times, then red 1, 2, or 3 times for the mode the tool is in. Release the button and it will quickly flash 5 times immediately followed by 1 long flash.
3. Cycle counter codes begin to be displayed as follows. Example, a tool that has run 1253 complete cycles.

0	➤	0	➤	1	➤	2	➤	5	➤	3
FIRST DIGIT		SECOND DIGIT		THIRD DIGIT		FOURTH DIGIT		FIFTH DIGIT		SIXTH DIGIT

Individual digits are displayed as follows ➤

Once the cycle counter terminates the Operation Button LED will flash rapidly for one second. Now the tool is ready to operate normally.

The cycle counter procedure can be terminated at any time by pressing the Operation Button or by pulling the Feedwheel Lever.

Digit	LED Flash
0	On 1.5 seconds
1	Once
2	Twice
3	Three times
4	Four times
5	Five times
6	Six times
7	Seven times
8	Eight times
9	Nine times

MAINTENANCE PROCEDURES - SHEAR CUTTER

If the banding starts to chatter or scrape during tensioning or leave a burr after the J is formed and cut, the shear (Part No. 800515) may be honed using an 800 grit stone.

The shear can be honed in the areas shown in Figure 1 and Figure 2 to lightly remove any sharp edges or burrs that have formed from use. If any problem persists contact your Strapbinder Representative.

NOTE: Do not use a grinding wheel; removing too much material can damage the shear.

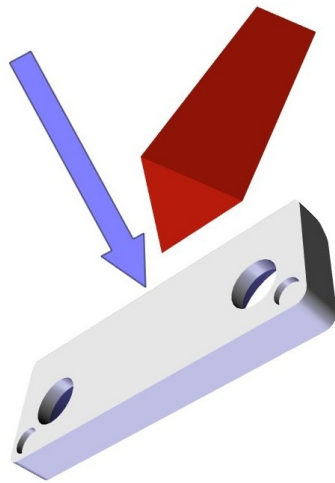
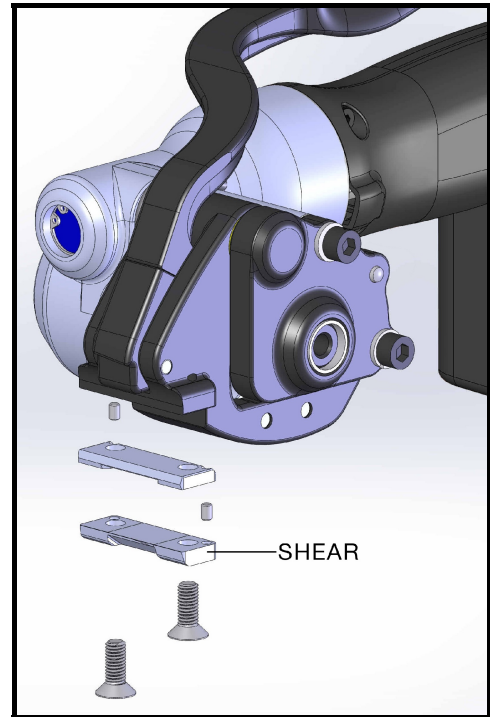


FIGURE 1

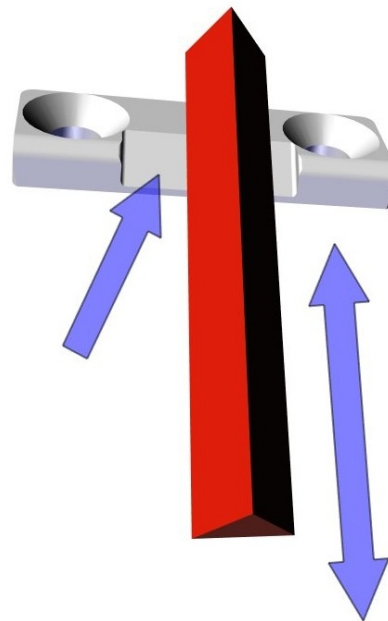


FIGURE 2

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STRAPBINDER WARRANTIES AND LIMITATIONS

Strapbinder warrants that for a period of sixty (60) days for Strapbinder tools from date of shipment product sold to Purchaser by Strapbinder will be free from defects in material and workmanship under normal use. During said Warranty period, Strapbinder agrees to replace free of charge any Strapbinder manufactured or purchased part or component which is determined to be defective. Strapbinder may require that the defective part or component be sent to Strapbinder, or its designated authorized representative, freight or postage prepaid. If Purchaser requests that Strapbinder remove and/or replace said part or component, Strapbinder shall have the right to charge Purchaser for such work at Strapbinder's regular service rates. Repairs to products must be made by a Strapbinder authorized service representative; by Purchaser's employees trained by Strapbinder who apply Strapbinder approved repair procedures; or in accordance with repair procedures set forth in the Product Service Manual provided by Strapbinder.

Strapbinder warrants that for a period of thirty (30) days from the date of services provided, the products repaired will be free from defects in material and workmanship when under normal and intended use.

This Warranty extends only to the original purchase from Strapbinder and is not transferable.

Strapbinder warrants and represents that the products when used in accordance with instructions provided by Strapbinder, will not infringe any patent or other proprietary right of any third party.

DISCLAIMERS

THESE WARRANTIES ARE EXPRESSLY CONDITIONED ON:

- A. THE PROPER INSTALLATION OF EQUIPMENT AS SUPERVISED BY AN AUTHORIZED STRAPBINDER SERVICE REPRESENTATIVE.
- B. EQUIPMENT AND TOOLS REPAIRED BY AN AUTHORIZED STRAPBINDER SERVICE REPRESENTATIVE.
- C. PURCHASER FOLLOWING THE STRAPBINDER PRESCRIBED MAINTENANCE SCHEDULE, OPERATING AND OTHER INSTRUCTIONS.

FAILURE TO FOLLOW THE ABOVE EXPRESS CONDITIONS SHALL VOID ALL WARRANTIES OTHERWISE APPLICABLE TO THE PRODUCTS OR SERVICES.

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Considerable effort has been made to ensure that this product conforms to our high quality standards. However, should you experience any difficulties, please contact your Sales Representative providing samples and the manufacturing code specified on the tool.

Thank you for your help.