



ORIGINAL OPERATION, PARTS & SAFETY MANUAL

PB-114

BATTERY POWERED TENSIONER

IMPORTANT! DO NOT DESTROY

**It is the customer's responsibility to
have all operators and servicemen
read and understand this manual.**

Contact you local Signode representative
for additional copies of this manual.

READ ALL INSTRUCTIONS BEFORE OPERATING THIS SIGNODE PRODUCT

NOTE: Fully charge battery before first use of tool.

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

WARNING

READ THESE INSTRUCTIONS CAREFULLY. FAILURE TO DO THIS CAN AFFECT A PRODUCT'S OPERATION AND COULD RESULT IN SERIOUS PERSONAL INJURY.

1. STRAP BREAKAGE HAZARD

Improper operation of the tool or sharp corners on the load can result in strap breakage during tensioning, which could result in the following:

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

Failure to place the strap properly around the load or an unstable or shifted load could result in a sudden loss of strap tension during tensioning. This could result in a sudden loss of balance causing you to fall.

Read the tool's operating instructions. If the load corners are sharp use edge protectors. Place the strap correctly around a properly positioned load.

- Positioning yourself in-line with the strap, during tensioning and sealing, can result in serious personal injury from flying strap or tool. When tensioning or sealing, position yourself to one side of the strap and keep all bystanders away.
- Using strap not recommended for this sealer can result in strap breakage during sealing. Use the correct Signode 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.

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. STRAPPING

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

6. CUTTING TENSIONED STRAP

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

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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.
- Do not expose power tools directly to rain.

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. NEVER ALLOW VISITORS TO CONTACT TOOL OR EXTENSION CORDS. ALL VISITORS SHOULD BE KEPT AWAY FROM WORK AREA.

10. DO NOT ABUSE TOOL

- Keep handle dry, clean and free from oil and grease.
 - Always keep cord 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.

11. MAINTAIN TOOL WITH CARE

Check 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 properly repaired or 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.

12. USE FOR INTENDED PURPOSE

- This tool is designed for bundling round packages with Signode brand steel strapping.
-

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 Signode Representative.



EYE INJURY HAZARD

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



CUT HAZARD

Handling strap 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. Do not 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.

TABLE OF CONTENTS	PAGE
General Safety Instructions	II
Specifications	6
Major Components	7
Battery Charger	8
Battery Installation	9
Operating Instructions	10
Parts List & Exploded Views	16
Troubleshooting Guides	27
Tool Maintenance	32
Declaration of Conformity	35

GRIPPACK PB-114 - PART NUMBER: 800441**GRIPPACK PB-114 TENSIONER KIT - PART NUMBER: 800467**

- Includes: Two 4.0Ah Batteries and One Charger



STRAP SPECIFICATIONS				
TYPE	WIDTH	THICKNESS	TENSION	SEALS
MAGNUS & APEX	3/4" (19mm) to 1-1/4" (31.75mm)	.020"(0.5mm) to .031"(0.78mm)	800 to 1500 lbs. (3558 - 6672N)	34HOC 114P 100P

NOTE: Clean the tool daily with a brush and apply light oil to all the moving surfaces.

TOOL SPECIFICATIONS		
DIMENSIONS	WEIGHT (W/ BATTERY)	SOUND PRESSURE
15" X 6" X 6" (381mm X 152mm X 152mm)	7.5 LBS (3.4 kg)	26 DB

MAJOR COMPONENTS - PB-114	
KEY	DESCRIPTION
1	OPERATION BUTTON
2	MAIN HOUSING
3	GEAR HOUSING
4	FEEDWHEEL
5	BREAKER NOSE
6	TENSIONER FOOT
7	FEEDWHEEL LEVER
8	TENSION KNOB
9	BATTERY CONNECTION
10	ROLLER
11	STRAP SENSOR
12	IDENTIFICATION

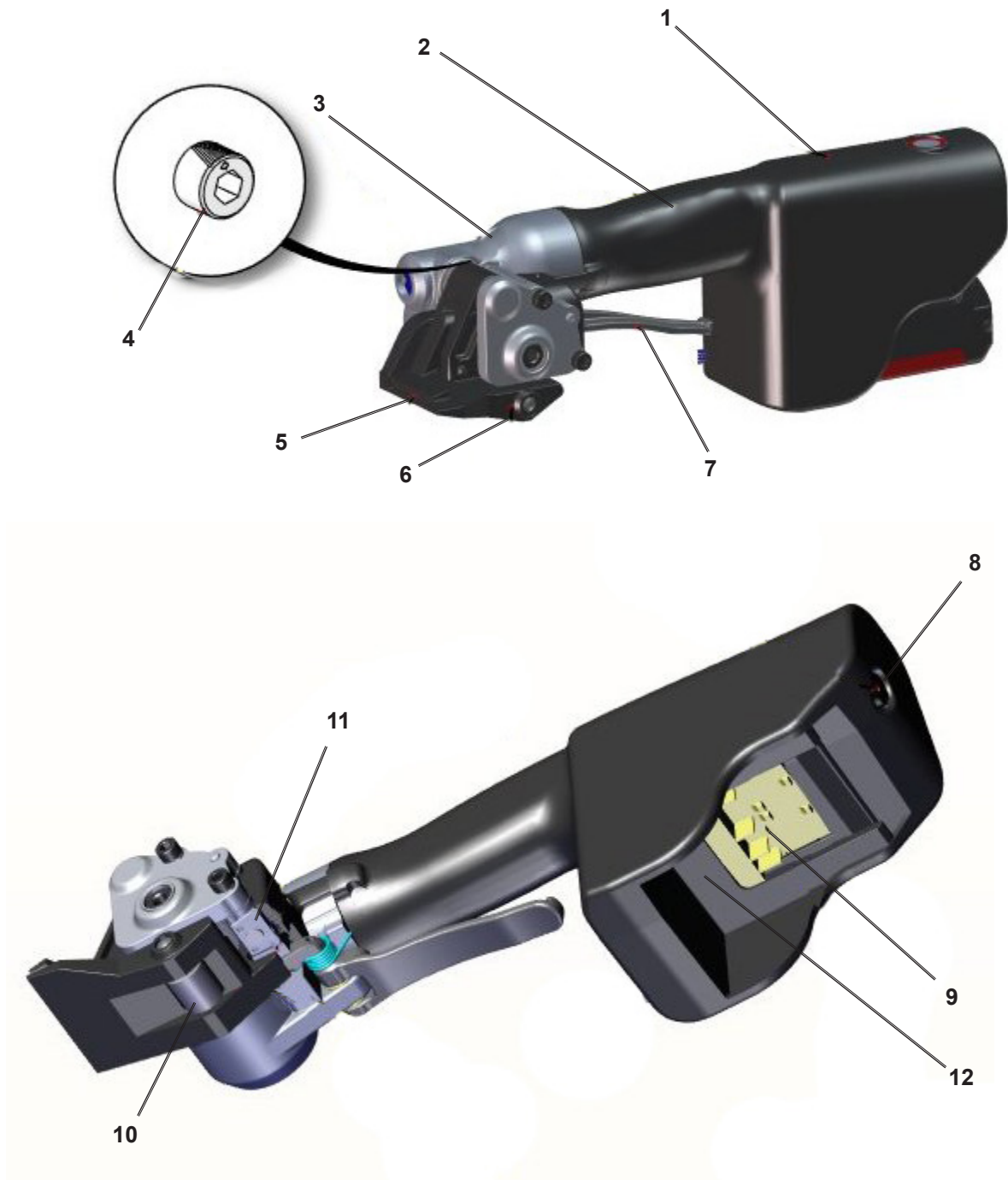
MAJOR COMPONENTS

Product Identification

A two letter code can be found on every tool. Contact your local Signode representative to assist in identifying the product month and year of the tool.

Date codes can also be used to properly identify service parts for this tool.

To locate the tool serial number, remove battery. A thirteen digit serial number can be found on the tool where the battery attaches.



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 charged.

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 32°F (0C) and 113°F (45C). When needed, the internal fan of the charger will turn on to aid the charging process and speed.

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.



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.

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.

NOTE: The Green indicator light will flash for approximately while the tool energizes. When the light stops flashing the tool is ready for use.

4. To remove the battery press the Red release button on the battery and slide out.

NOTE: The power indicator light on the top of the tool will flash Green indicating the battery has enough charge. If the indicator light flashes Red .5 Second On and Off, charge the battery. Otherwise reference the battery troubleshooting section.



REPLACEMENT BATTERIES & CHARGERS

	BATTERY	CHARGER	
		110 Volt	220 Volt
Federal (Non-California)	P/N 800293	P/N 800543	P/N 800543

JOINT INFORMATION & INSPECTION

An improperly formed joint, or a joint with an incorrect number of notches, could result in strap separation. Before moving any package, be certain that the joint is formed as shown in the illustration. If not, remove the strap and check the tool for worn or broken parts. Repair the tool before applying another strap. Failure to follow this procedure could result in serious injury or death. If you have questions regarding proper joint formation, contact your Signode Sales Representative.

Before making a double reverse notch seal joint, read the sealing tool's Operation, Parts and Safety Manual. A properly formed double reverse notch joint will appear as shown in the illustration. Always use the correct number of seals recommended by your Signode Sales Representative. If the double reverse notch joint does not appear as shown in the illustration, proceed as follows:

1. Review the tool's operating instructions to be certain that the tool is being operated properly before applying another strap.
2. Cut the strap off and apply a new strap and seal.



Tuck strap end back into the dispenser when not in use.

⚠ WARNING

Wear safety glasses and gloves. Stand to one side of the strap when sealing.
Make sure all bystanders are clear before proceeding. Failure to do this can affect a product's operation and could result in serious personal injury.

OPERATING INSTRUCTIONS

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

Selecting Operating Mode

The PB-114 is easily changed from Manual Mode to Automatic Mode. 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 clock wise to enter MODE selection (Figure 1).
 - a. 1 flash on the Operation Button = Automatic mode
 - b. 2 flashes on the Operation Button = Manual mode
3. Press the Operation Button to toggle between Automatic and Manual modes (Figure 2).
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.

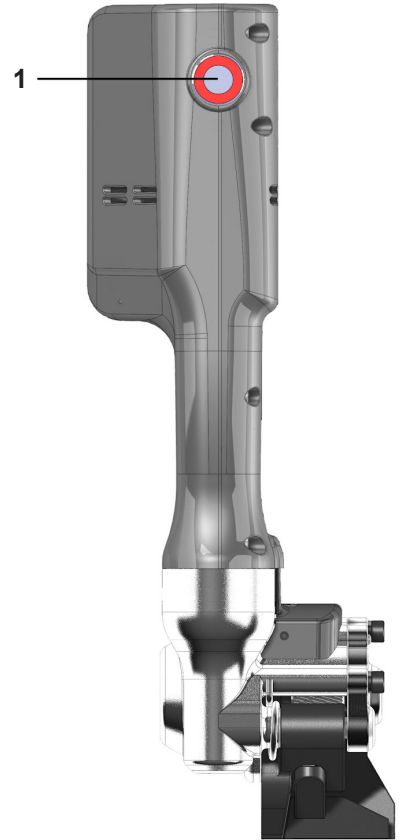


Figure 1



Figure 2

NOTE: When inserting a new 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.

PB-114	
KEY	DESCRIPTION
1	OPERATION BUTTON

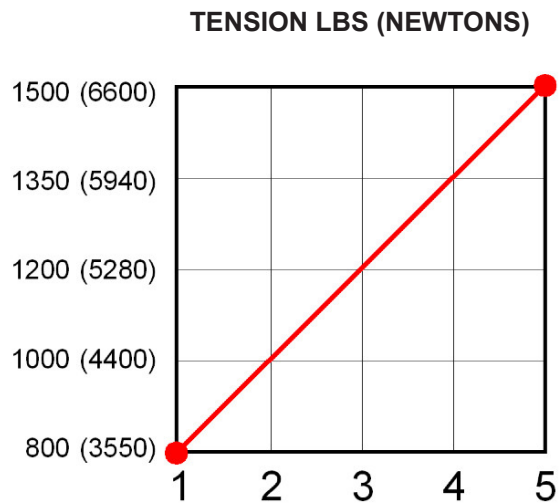
⚠ WARNING

Failure to use the proper strap/seal/tool combination for the load being strapping can result in an improperly secured load which can result in serious personal injury. If you have any questions, contact your local Signode Representative.

Strap Tension

Strap 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 clockwise to increase strap tension.

Once the tool has been set, tension will be uniform on all straps provided the operator allows the motor to stall.



⚠ 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.

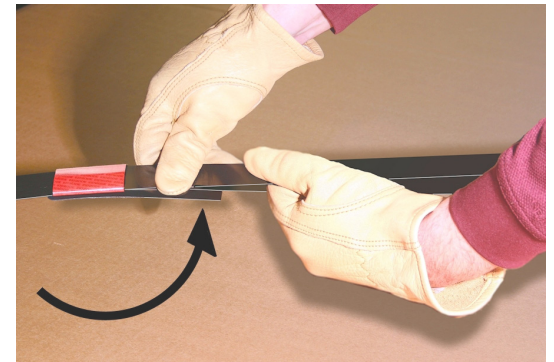
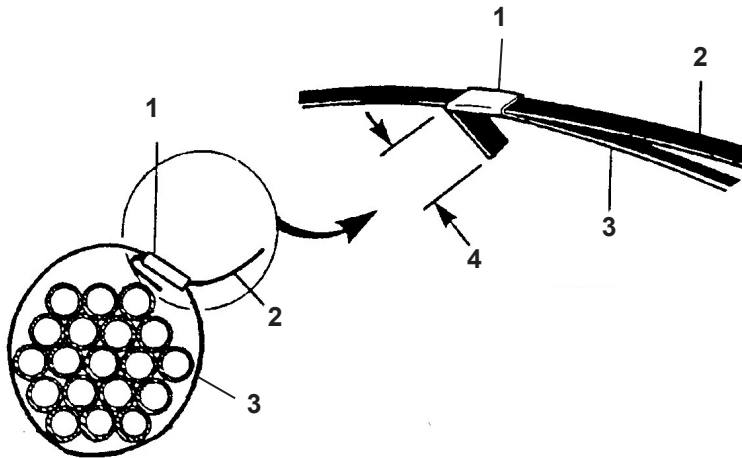
MANUAL MODE OPERATION

1. Thread the strap from the dispenser through a Signode 114P seal.

NOTE: Encircle the bundle and rethread the strap end through the seal.



2. Bend the strap end backwards as shown. Bend about 2 1/2" (63.5mm) of the lead end of the BOTTOM STRAP back beneath the seal to maintain the loop. Hold the BOTTOM STRAP and pull back on the TOP STRAP to draw loop loosely around the package. A gentle upward bend on the TOP STRAP will hold the loop in place while the tool is positioned.



STRAP AND SEAL LOADING	
KEY	DESCRIPTION
1	SEAL
2	TOP STRAP
3	BOTTOM STRAP
4	2 1/2" (63.5MM)

3. Squeeze the gripper lever to open the tool. Place the top strap into the front nose opening and slide the tool forward until it butts against the seal.



4. While standing to one side of the strap line, release the gripper lever and press the start button once. The tool will automatically tension the strap and hold it tight.

NOTE: Press the start button again to stop tensioning. Press and hold the start button to reverse the tool.



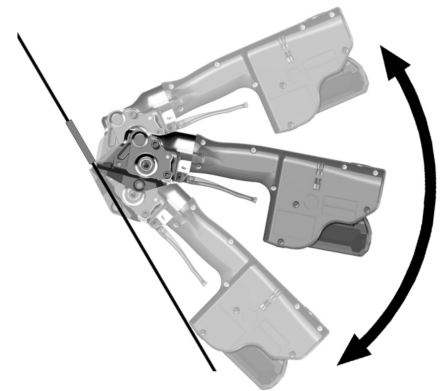
5. Once the strap has been fully tensioned use a Signode approved tool to seal the joint.



6. Break the strap at the seal by swinging the tensioner up and down as shown. DO NOT EXCEED 90° MOVEMENT. If the tool is swung too far forward, damage to the seal will occur and the strap will not break off.

NOTE: Tool will wake-up when Trigger button is pressed.

NOTE: Tool will sleep after 5 minutes to conserve battery.



⚠ 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.**

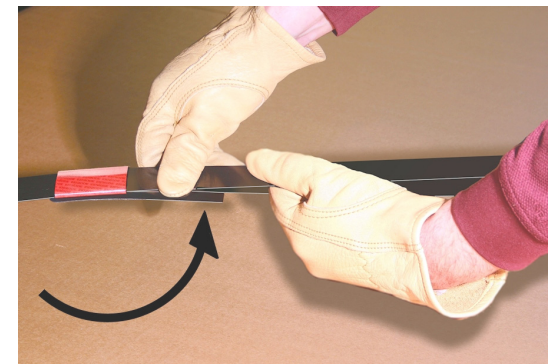
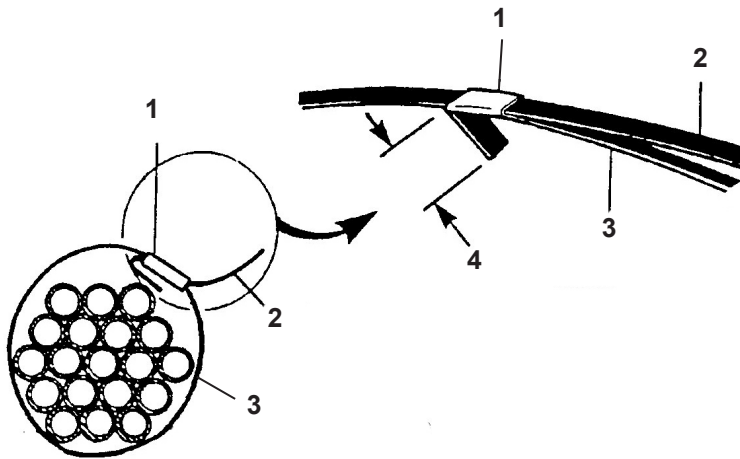
AUTOMATIC MODE OPERATION

1. Thread the strap from the dispenser through a Signode 114P seal.

NOTE: Encircle the bundle and rethread the strap end through the seal.



2. Bend the strap end backwards as shown. Bend about 2 1/2" (63.5mm) of the lead end of the BOTTOM STRAP back beneath the seal to maintain the loop. Hold the BOTTOM STRAP and pull back on the TOP STRAP to draw loop loosely around the package. A gentle upward bend on the TOP STRAP will hold the loop in place while the tool is positioned.



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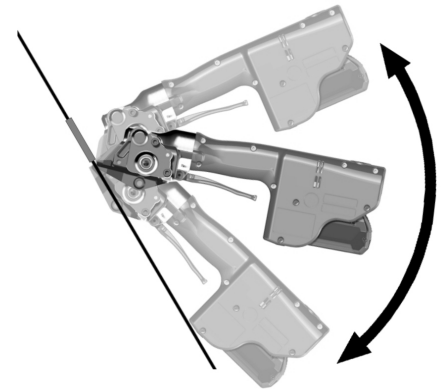
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⚠ WARNING

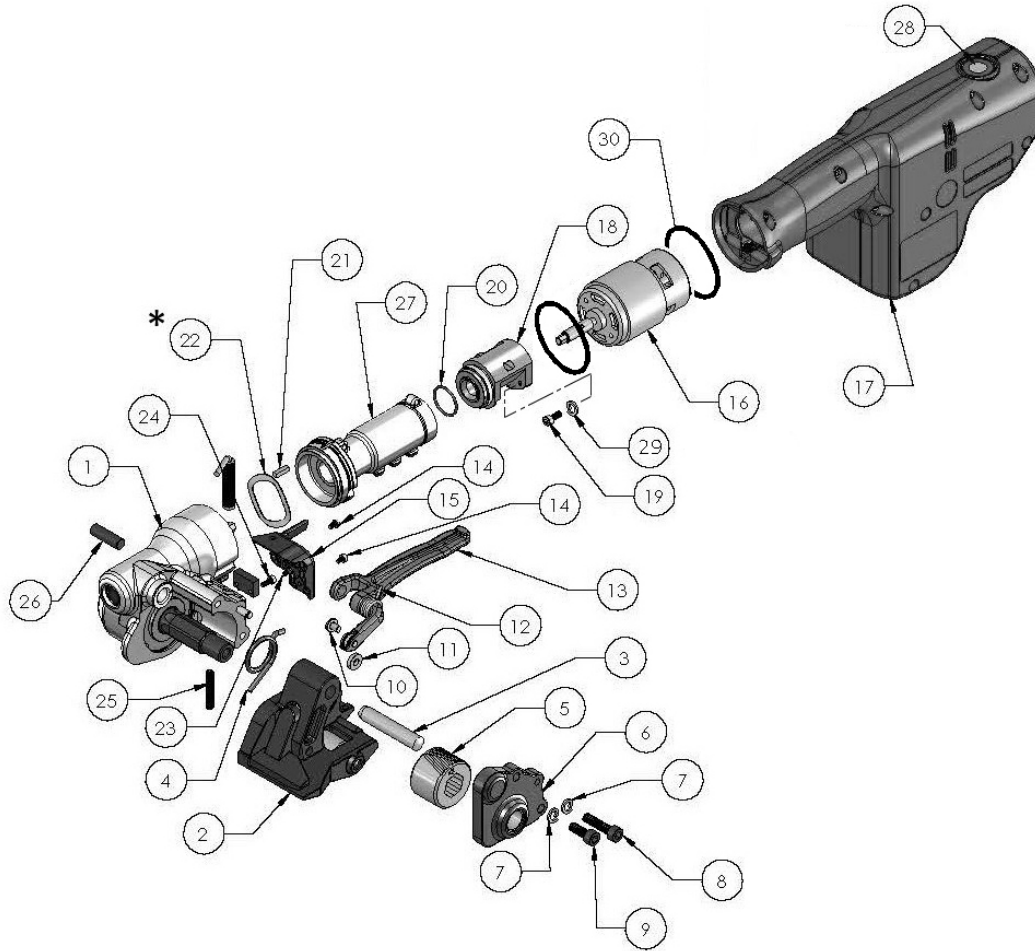
Inspect all parts daily and replace them if they are worn or broken.

Failure to do this can affect a product's operation and could result in serious personal injury.

PARTS LIST- MAIN ASSEMBLIES			
KEY	QUANTITY	PART NUMBER	DESCRIPTION
**1	1	800442	GEAR HOUSING ASSY
2	1	800445	BREAKER FOOT ASSY
*3	1	610330	PIVOT PIN Ø10 X 55
*4	1	800415	FOOT SPRING
*5	1	423398	FEEDWHEEL
6	1	800457	SIDEPLATE ASSY
7	1	005464	WASHER
8	1	423790	SHCS M6 X 25
9	1	423549	SHCS M6 X 18
10	1	800418	ROLLER SHAFT
11	1	800417	ROLLER
12	1	800416	SPRING
13	1	800412	RELEASE LEVER
14	2	800435	SHCS M3 X 5
15	1	800405	FRONT COVER
16	1	800447	MOTOR ASSEMBLY
17	1	800444	PLASTIC HOUSING ASSY
18	1	800396	MOTOR ADAPTER
*19	2	800432	SHCS M4 X 12
20	1	800434	O-RING
**21	1	800413	KEY
**22	1	800455	WAVE WASHER
23	1	800431	KCPSS M3 X 3
24	1	800430	SHCS M3 X 8
25	1	800433	SHSS M5 X 30
26	1	800419	PIVOT SHAFT
**27	1	800443	GEAR BODY ASSY
28	1	35000002713	PCB ASSY
*29	2	800460	MOTOR WASHER
30	2	427103	SAE 130 O-RING
* Recommended Spare Parts			
** Gear Train Assembly 35000010339			

⚠ WARNING

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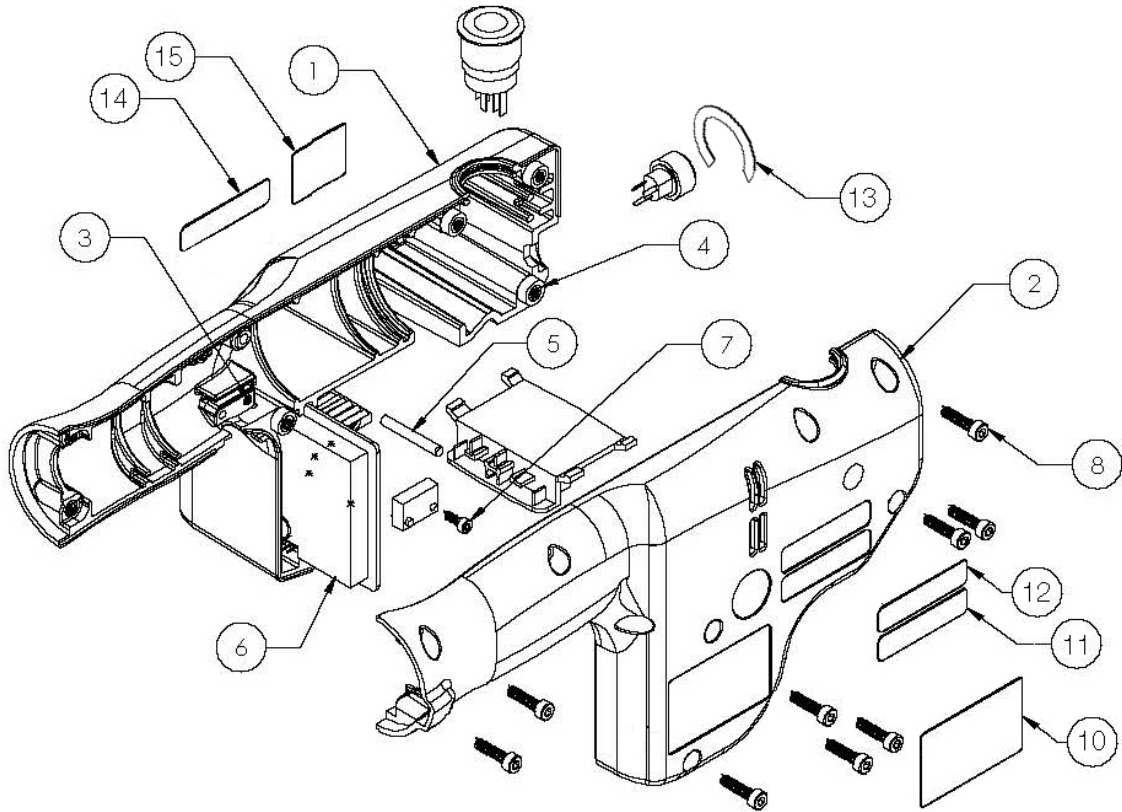
PB-114 - MAIN ASSEMBLIES	
KEY	NOTES
19	TORQUE: 22 IN-LBS (2.5 NM) LOCTITE 680 OR EQUIVALENT. WHEN REPLACING ALWAYS USE NEW COMPONENTS.
24	TORQUE: 6 IN-LBS (.68 NM)
29	TORQUE: 22 IN-LBS (2.5 NM) LOCTITE 680 OR EQUIVALENT. WHEN REPLACING ALWAYS USE NEW COMPONENTS.
*	WAVE WASHER IS NOT USED ON EVERY ASSEMBLY.

NOTE: See page 34 for Loctite requirements and torque specification unless otherwise noted.

PARTS LIST- PLASTIC HOUSING ASSEMBLY (800444)			
KEY	QUANTITY	PART NUMBER	DESCRIPTION
1	1	800397	PLASTIC HOUSING LEFT
2	1	800398	PLASTIC HOUSING RIGHT
3	1	800424	BRASS INSERT M3
4	9	35000002600	BRASS INSERT M4
5	1	800426	DOWEL PIN 4 x 30
6	1	35000002713	PCB ASSEMBLY
7	1	800430	SHCS M3 X 8
8	9	800429	SHCS M4 X 16
10	1	800375	NAMEPLATE
11	1	800377	INFO SIGN
12	1	800376	INFO SIGN
13	1	510480	INFO SIGN
14	1	436387	INFO SIGN
15	1	423953	WARNING SIGN

WARNING

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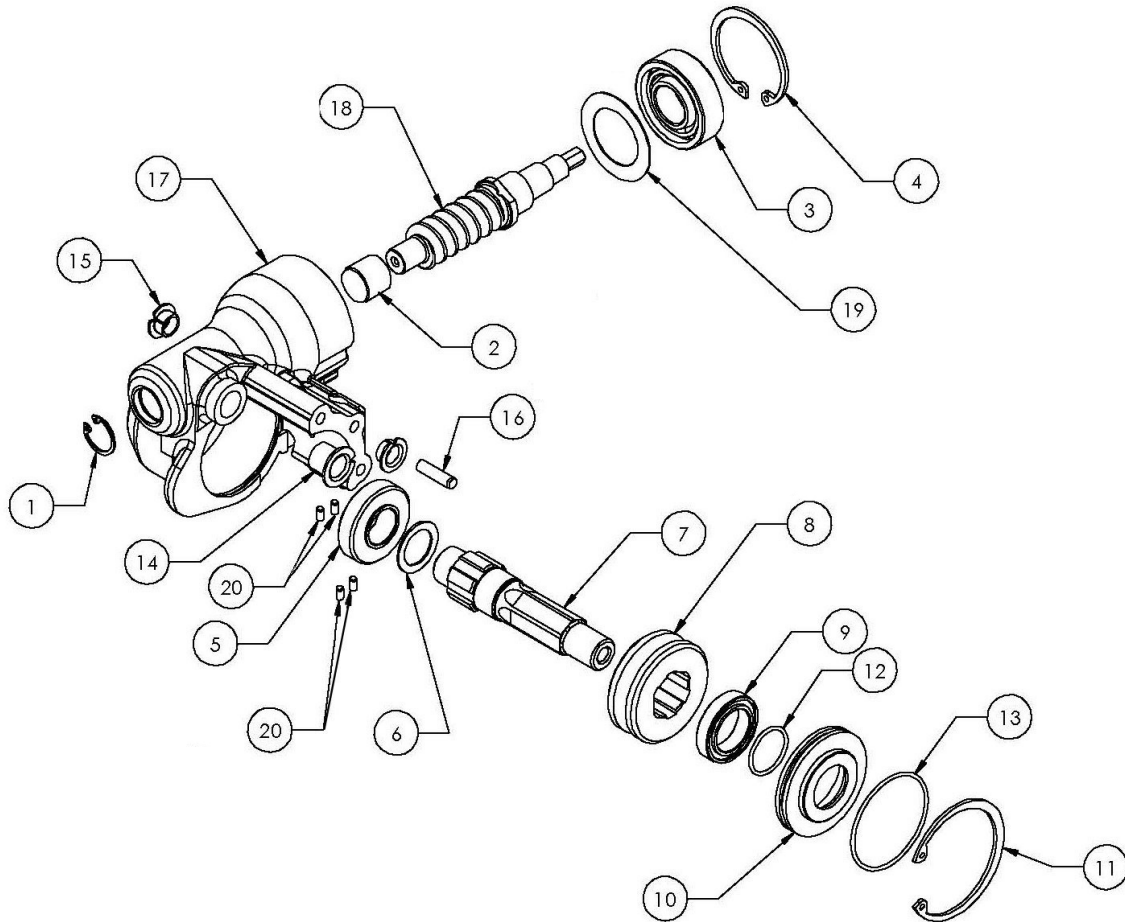
PLASTIC HOUSING ASSEMBLY (800444)	
KEY	NOTES
7	TORQUE: 6 IN-LBS (.68 NM)
8	TORQUE: 10 IN-LBS (1.13 NM)

NOTE: See page 21 for Loctite requirements and torque specification unless otherwise noted.

PARTS LIST- GEAR HOUSING ASSEMBLY (800442)			
KEY	QUANTITY	PART NUMBER	DESCRIPTION
1	1	008752	N5000-62
2	1	008751	NEEDLE ROLLER BEARING
3	1	008756	BEARING
4	1	800436	RETAINING RING
5	1	024038	BEARING
6	1	423533	THRUST WASHER
7	1	423501	FEED WHEEL SHAFT
*8	1	800400	WORM GEAR
9	1	423515	BEARING
10	1	800448	COVER
11	1	250731	TRUARC RING
12	1	423531	SAE 18 ORING
13	1	256755	SAE 30 ORING
*14	1	800120	FLANGE BEARING
*15	1	800401	FLANGE BEARING
16	1	800438	DOWEL PIN M5 x 20
17	1	800408	GEAR HOUSING
*18	1	800399	WORM
19	1	800604	SEAL
20	4	800456	DOWEL PIN M3 X6
* Recommended Spare Parts			

⚠ WARNING

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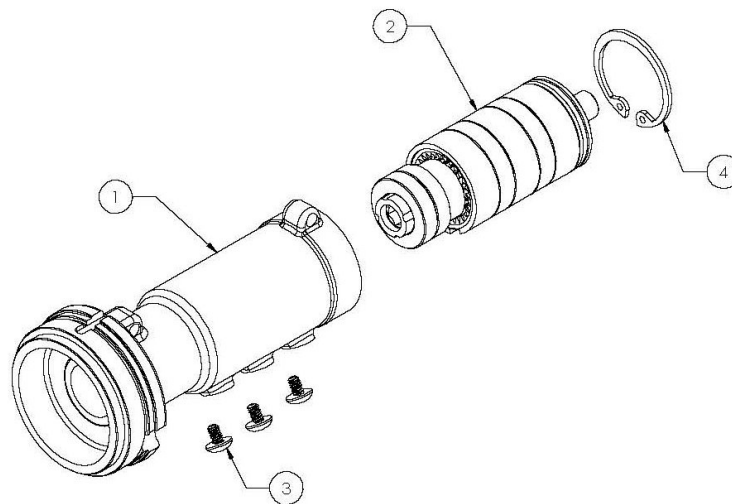
GEAR HOUSING ASSEMBLY (800442)

KEY	NOTES
3	INSTALL BEARING WITH FACE LETTERING FACING AWAY FROM GEAR HOUSING
8	PART SIDE WITH LETTERING MUST BE INSTALLED FACING GEAR HOUSING. MATCHING GEAR SET
16	LOCTITE 609 (GREEN) OR EQUIVALENT
18	MATCHING GEAR SET
20	LOCTITE 609 (GREEN) OR EQUIVALENT

NOTE: See page 34 for Loctite requirements and torque specification unless otherwise noted.

PARTS LIST- GEAR BODY ASSEMBLY (800443)			
KEY	QUANTITY	PART NUMBER	DESCRIPTION
1	1	800603	GEAR BODY
2	1	800453	GEAR RING
3	3	800325	SBHCS M4 X5 (LOCTITE 222 OR EQUIVALENT)
4	1	800454	RING

NOTE: See page 34 for Loctite requirements and torque specification unless otherwise noted.



GEAR HOUSING ASSEMBLY (800443)	
KEY	NOTES
3	LOCTITE 222 OR EQUIVALENT

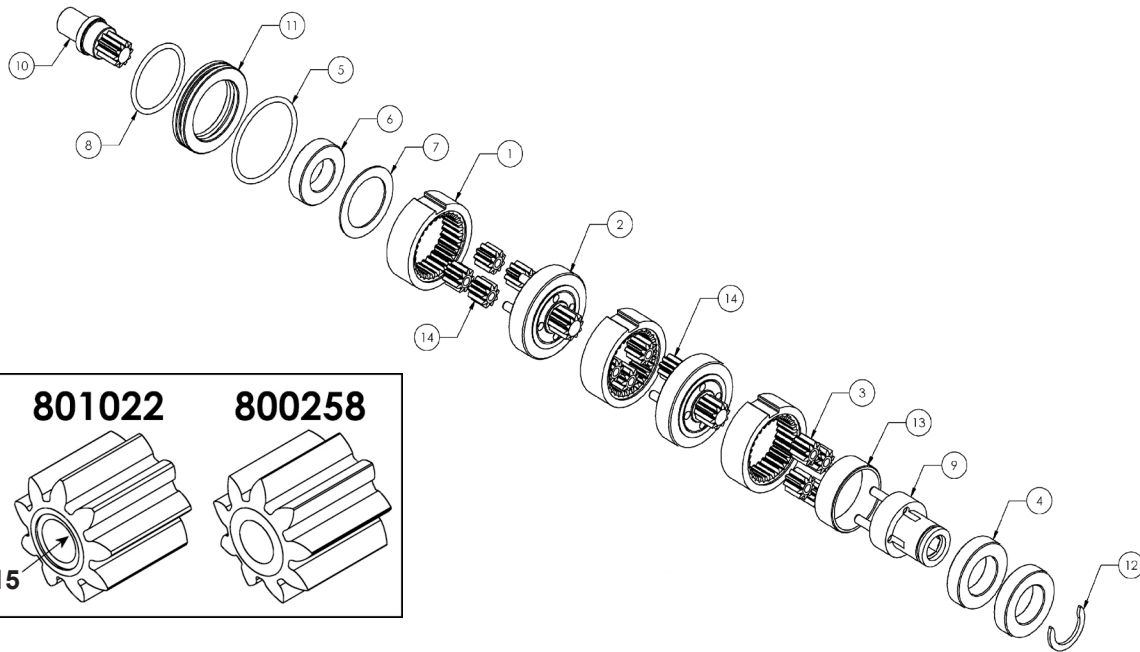
⚠ WARNING

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PARTS LIST- GEARING (800453)

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

* Recommended Spare Parts

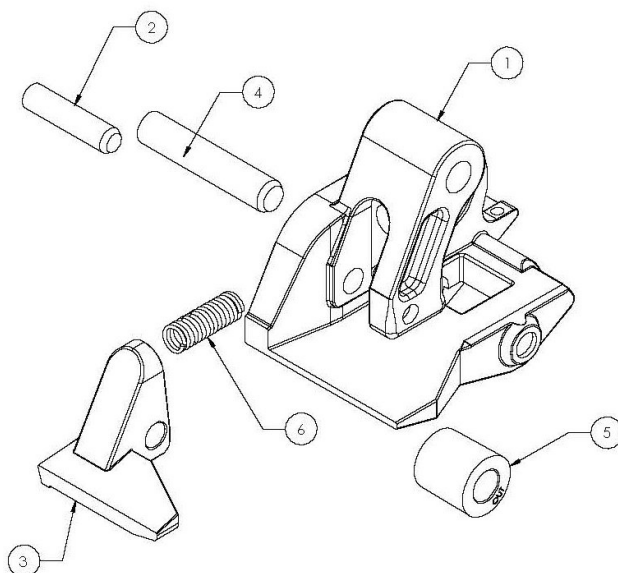
NOTE: See page 34 for Loctite requirements and torque specification unless otherwise noted.

GEARING

KEY	NOTES
3	P/N 800258 (QTY 4) MUST BE USED ON THIS STAGE.
13	CHAMFER MUST FACE IDLER CARRIER ASSEMBLY (KEY 9)
1, 14	STORE P/N 801022 AND 800935 IN SYNLUBE 680 LIGHTLY LUBRICATE ALL PARTS WITH LUBRIPLATE SYNLUBE 680 (L0978-057)
15	IDENTIFYING GROOVE

PARTS LIST- BREAKER FOOT ASSEMBLY (800445)			
KEY	QUANTITY	PART NUMBER	DESCRIPTION
*1	1	800410	BREAKER FOOT
*2	1	252262	NOSE PIN $\varnothing$ 8 X 26
*3	1	800602	BREAKER NOSE
*4	1	423524	ROLLER PIN $\varnothing$ 10 X 50
*5	1	423517	ROLLER
6	1	423546	NOSE SPRING
* Recommended spare parts			

NOTE: See page 34 for Loctite requirements and torque specification unless otherwise noted.



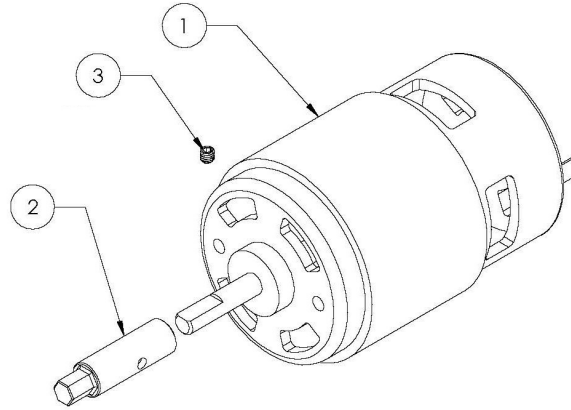
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PARTS LIST- MOTOR ASSEMBLY (800447)

KEY	QUANTITY	PART NUMBER	DESCRIPTION
*1	1	800422	MOTOR
*2	1	800404	DRIVE SHAFT
*3	1	800431	KCPSS M3 X 3

* Recommended spare parts



MOTOR ASSEMBLY (800447)

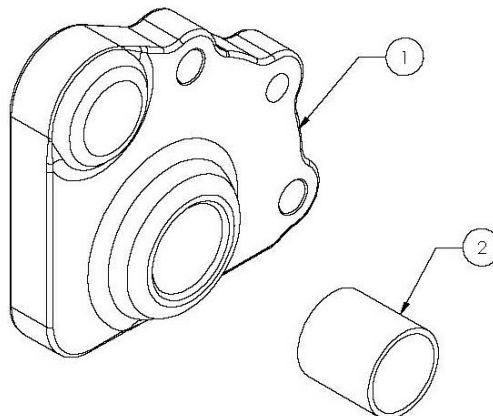
KEY	NOTES
3	Loctite 401 or Equivalent.

NOTE: See page 34 for Loctite requirements and torque specification unless otherwise noted.

PARTS LIST- SIDE PLATE ASSEMBLY (800451)

KEY	QUANTITY	PART NUMBER	DESCRIPTION
1	1	800411	SIDE PLATE
*2	1	423521	BUSHING

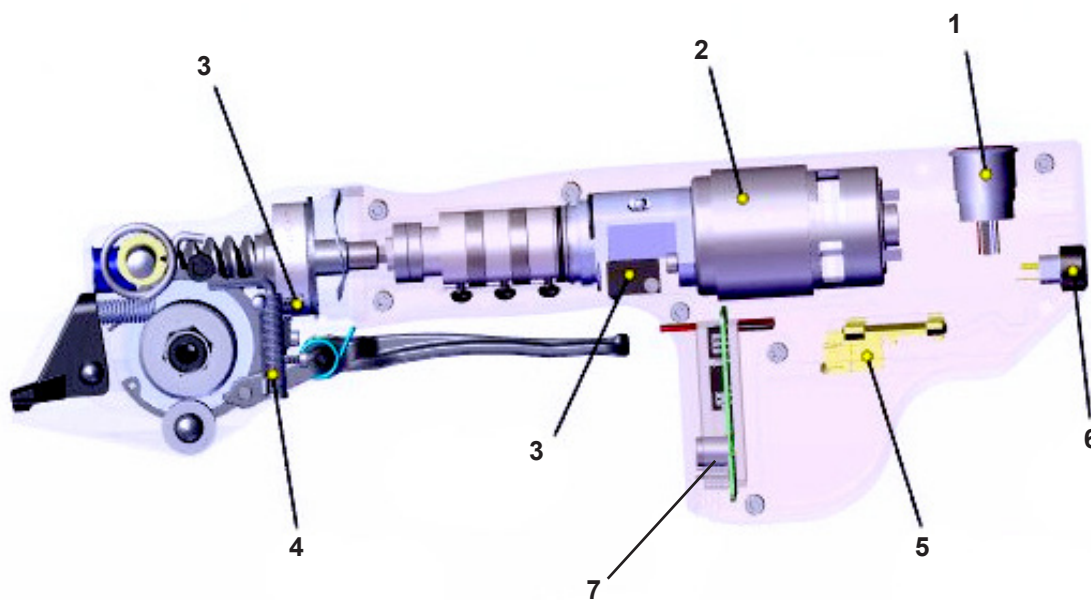
* Recommended spare parts



PARTS LIST- PC BOARD ASSEMBLY (35000002713)
Assembly 35000002713 includes all components below with associated wires.

KEY	QUANTITY	PART NUMBER	DESCRIPTION
1	1	2012002265	TRIGGER BUTTON
2	1	800422	MOTOR
3	2	800425	SWITCH
4	1	800414	STRAP SENSOR
5	1	35000002480	CONTACT PLATE PCU ASSEMBLY
6	1	800427	TENSION KNOB
7	1	800801	PCB

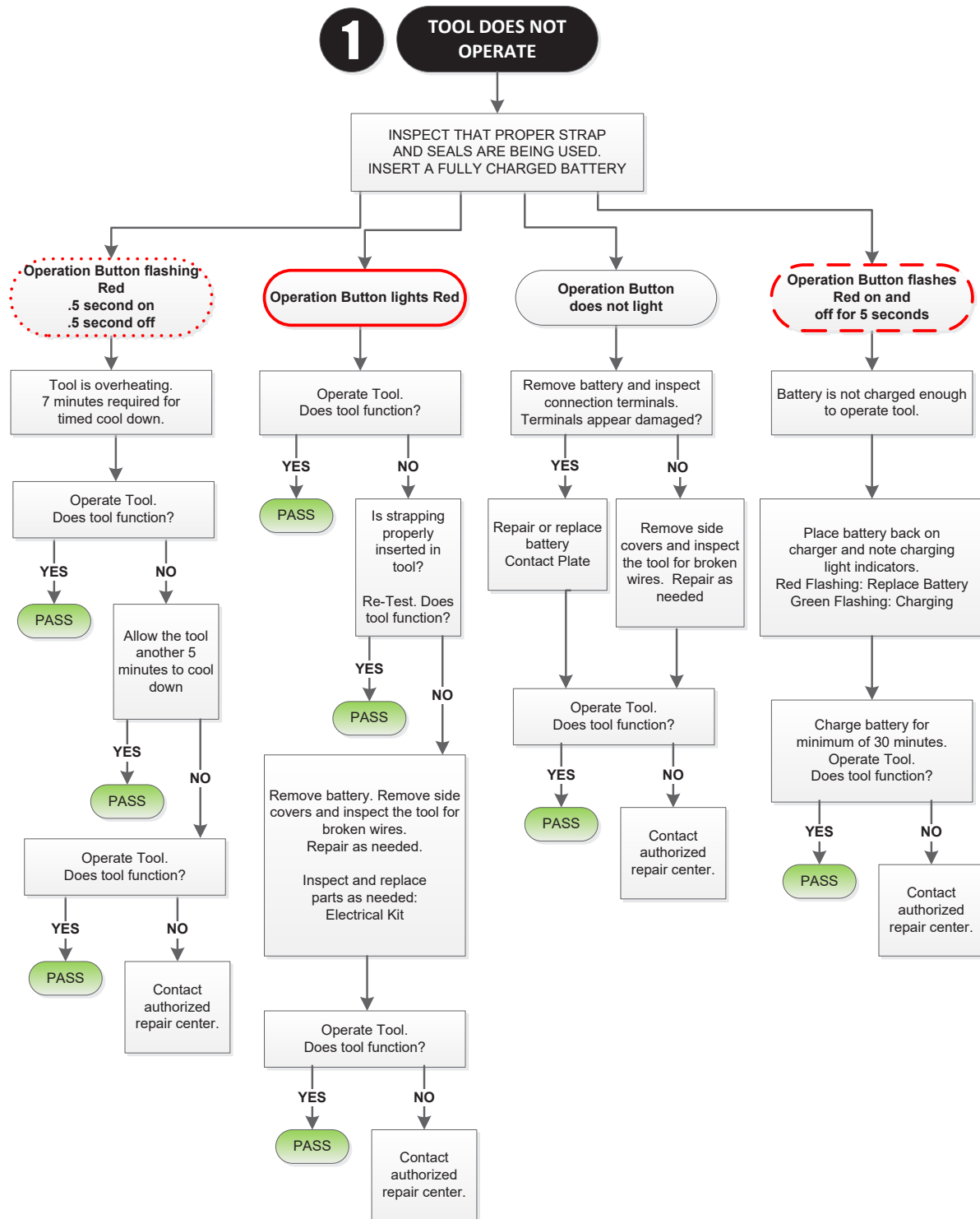
* Recommended spare parts



⚠ 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.

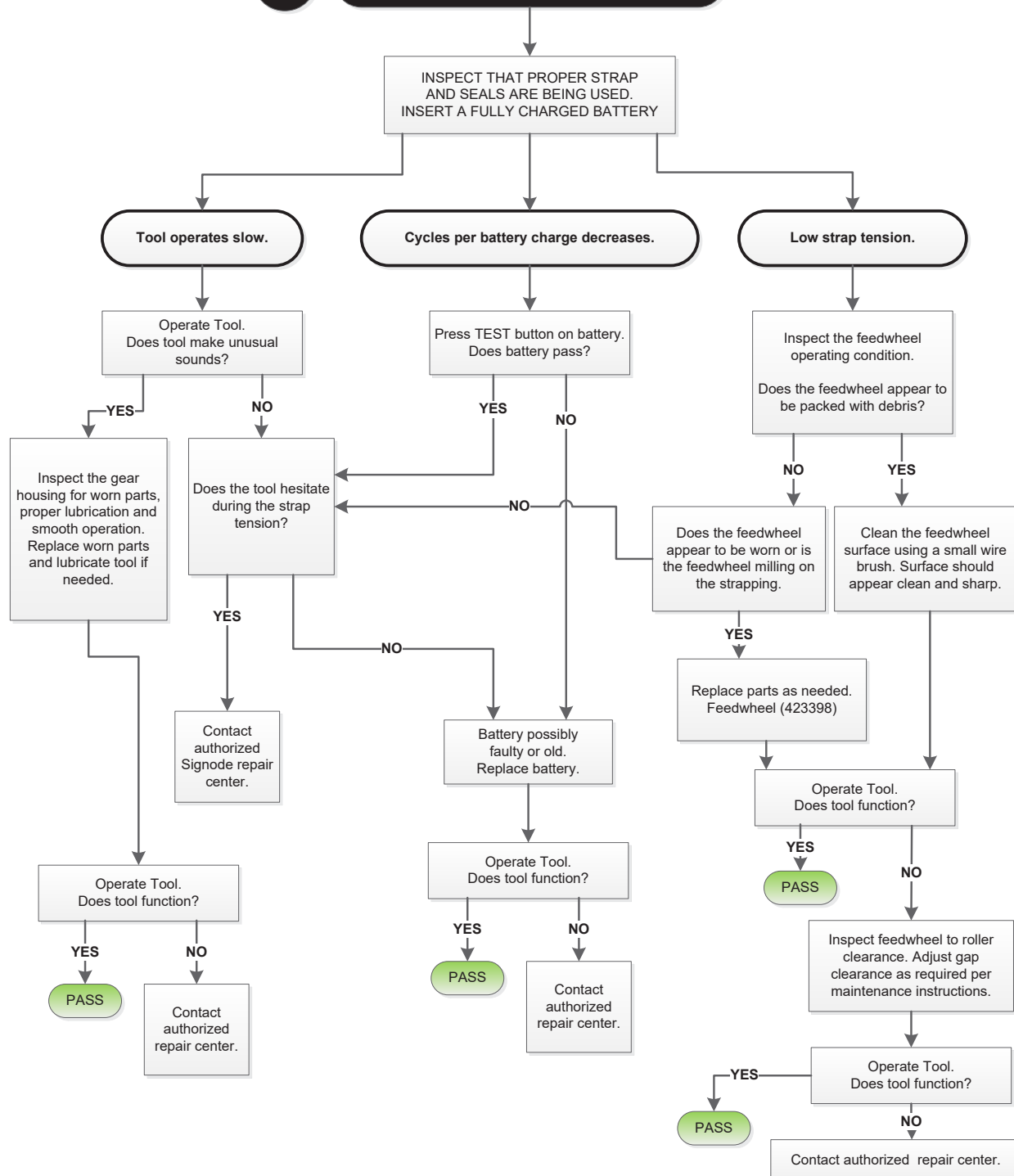
TROUBLESHOOTING GUIDES



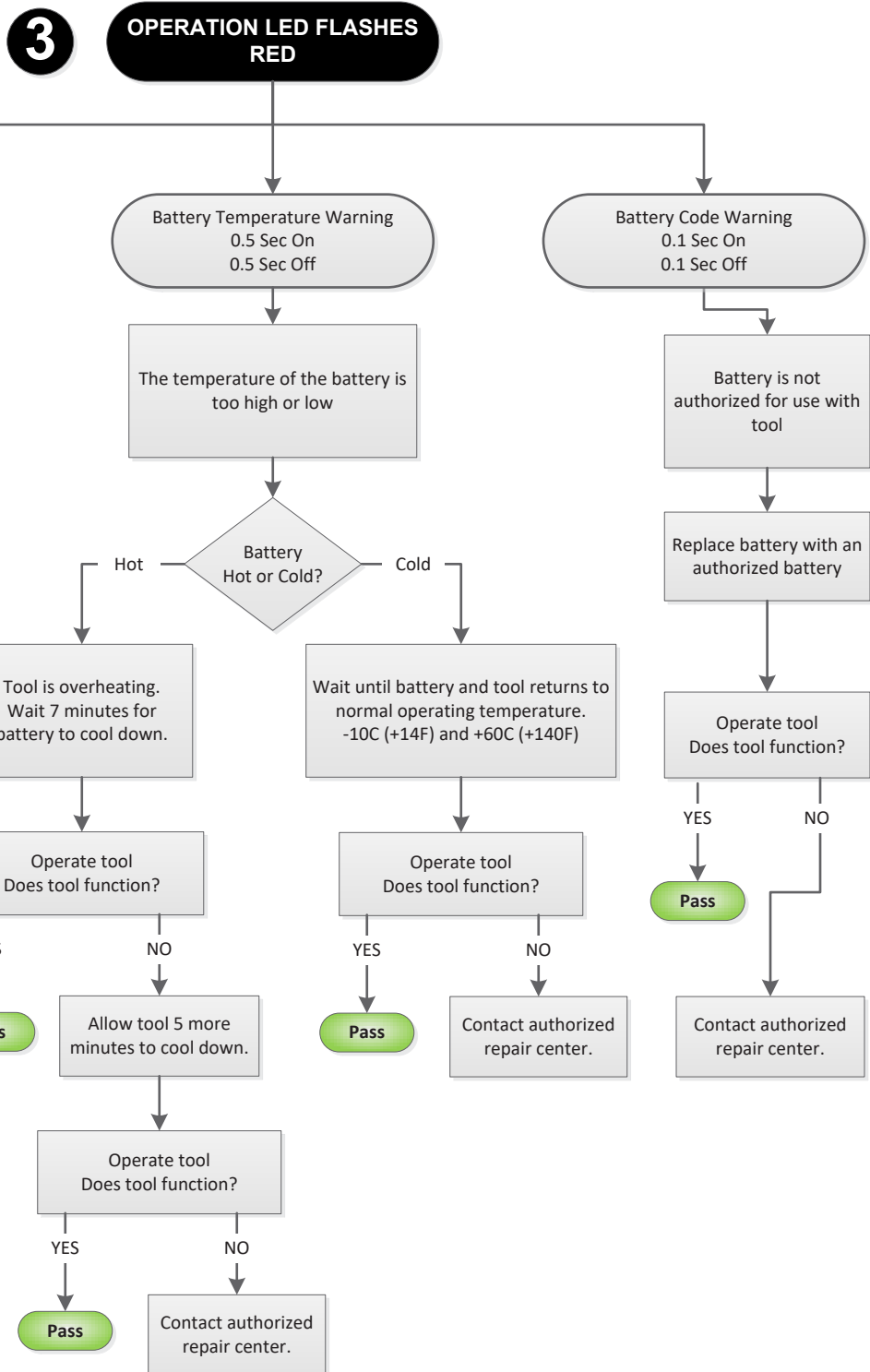
TROUBLESHOOTING GUIDES

2

INCONSISTENT TOOL OPERATION



TROUBLESHOOTING GUIDES



TOOL MAINTENANCE

General

The most common reason for poor tool performance and incorrectly formed straps joints is improper tool maintenance. The easiest way to determine if a tool is performing correctly is by inspecting the strap joint. 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, strap/seal quantity and strap gauge which the tool is subjected to. Inspect all parts daily and replace them if they are worn or broken. Broken parts can increase sealing effort, leading to additional component wear and produce lower joint strength.

Inspect the components of the sealing mechanism when:

- A. Joint does not appear as shown in this manual or visually it is detected that the joint is not fully formed or formed improperly.
- B. Sealing effort seems sluggish or tool is difficult to remove from strap.
- C. The number of cycles from one battery charge decreases.
- D. When scheduled.

⚠ WARNING

**If there is any question that joint formation is not as shown,
it is important that you contact your tool representative immediately.**

Tool Lubrication

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

Thread Sealants

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

- Loctite #222 (Purple), Part No 422794.
-

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 Indicator Light 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. Insert battery
2. Wait for tool to power up and flash the mode.
3. Remove battery
4. Wait for tool to fully power down aprox. 10 seconds.
5. Insert battery while holding the operation trigger button for approximately two seconds. LED will flash 1 time indicating the button is working correctly.
6. Wait a few minutes to skip controls diagnostics.
7. Led will flash 5 times quickly to indicate the cycle count will begin.
8. 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 trigger button.

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

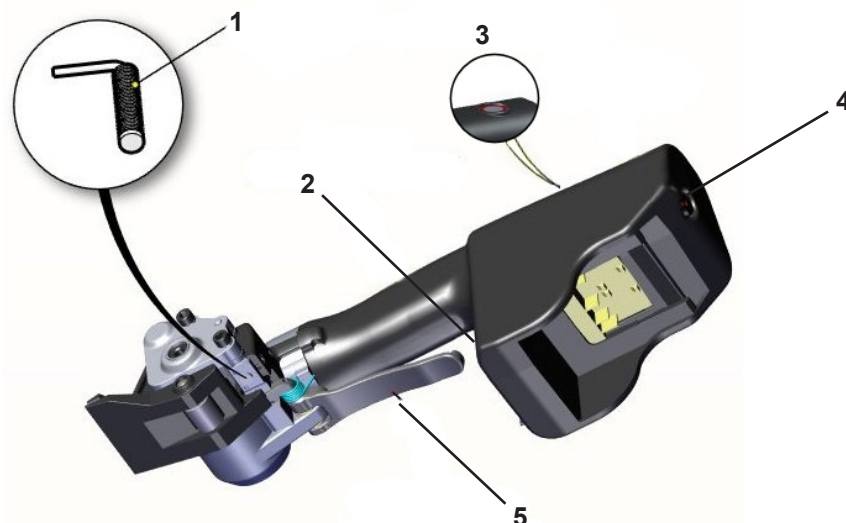
MAINTENANCE PROCEDURES - CONTROLS DIAGNOSTIC

Use the following procedure to diagnose a possible faulty or broken control switch. 2 small pieces of strapping are needed for this procedure.

The diagnostics feature is enabled for 30 seconds. If all components have not been verified within 30 seconds repeat steps 1 through 6 and resume.

1. Insert battery
2. Wait for tool to power up and flash the mode.
3. Remove battery from tool.
4. Turn tension control knob pointer to MODE.
5. Squeeze feedwheel operating lever and insert a small piece of strap under the feedwheel. Strap must be only under the feedwheel and NOT cover strap sensor.
6. Insert battery while holding the operation button for approximately three seconds. LED will flash 1 time indicating the button is working correctly.
7. Turn tension control knob pointer to 5. Operation Button LED will flash 5 times indicating tension knob is working correctly.
8. Rotate tension control knob back to level MODE.
9. Turn the tool on it's side. Place a small piece of strap over the strap sensor. If sensor is working correctly Operation Button LED will flash 4 times.
10. Using your finger, press and hold the feedwheel lever switch. If working correctly the Operation Button LED will illuminate 2 times.
11. Lastly, remove the small piece of strap from under the feedwheel. Operation Button LED will flash 3 times indicating the home switch is working.

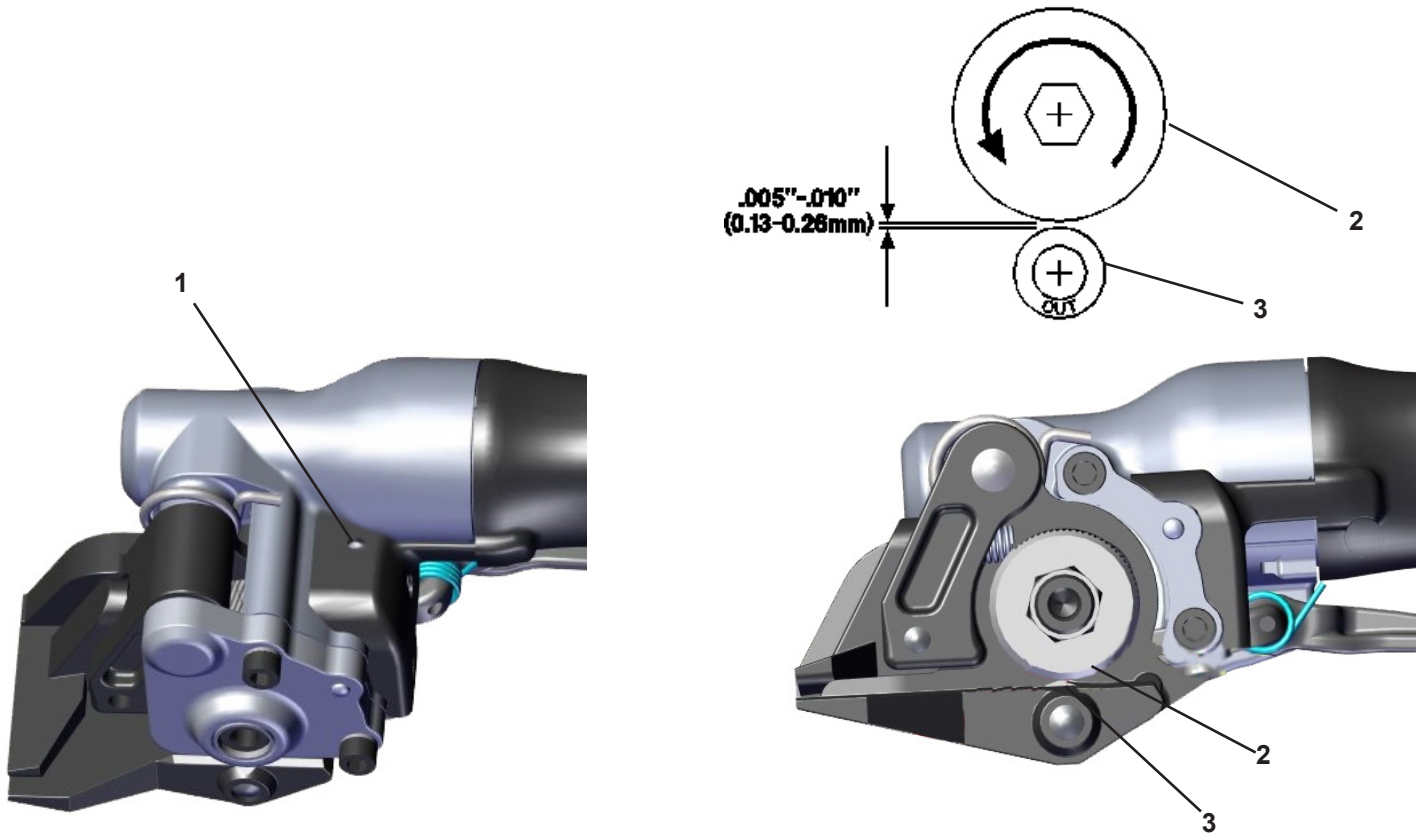
CONTROLS DIAGNOSTIC	
KEY	DESCRIPTION
1	STRAP SENSOR (4 FLASHES)
2	FEEDWHEEL LEVER SWITCH (2 FLASHES)
3	OPERATION BUTTON (1 FLASH)
4	TENSION KNOB (5 FLASHES)
5	FEEDWHEEL LEVER (3 FLASHES)



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 2.5 mm 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 from proper operation.



FEEDWHEEL CLEARANCE	
KEY	DESCRIPTION
1	FEEDWHEEL CLEARANCE ADJUSTMENT SCREW
2	FEEDWHEEL
3	ROLLER

REFERENCE INFORMATION		
PART NUMBER	DESCRIPTION	TYPICAL AREA OF USE
LUBRICANTS		
177029	MOBIL SHC 1500	WORM GEAR SETS
432322	EP ACCROLUBE	CONTACT PARTS
801237	LUBRIPLATE SYN LUBE 220	PLANETARY GEARS
801375	TUNGSTEN DISULFIDE PASTE	WORM GEAR SETS
THREAD LOCKERS & ADHESIVES		
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
274111	LOCTITE #380 (BLACK MAX)	PERMANENT, FLAT SURFACE CONTACT
CLEANING BRUSHES		
023963	SMALL BRUSH	FEEDWHEEL & GRIPPER TEETH
269589	LARGE BRUSH	FEEDWHEEL & GRIPPER TEETH
TORQUE SPECIFICATIONS (UNLESS OTHERWISE NOTED)		
SHCS M2: 6 in lbs (0.69 Nm)		
SHCS M3: 13 in lbs (1.47 Nm)		
SBHCS M3: 13 in lbs (1.47 Nm)		
SHSS M3: 13 in lbs (1.47 Nm)		
SHCS M4: 30 in lbs (4.07 Nm)		
SBHCS M4: 30 in lbs (4.07 Nm)		
SHCS M5: 60 in lbs (6.78 Nm)		
SHSS M5: 60 in lbs (6.78 Nm)		
SHCS M6: 120 in lbs (13.56 Nm)		

EU DECLARATION OF CONFORMITY

Manufacturer:

Signode Industrial Group LLC
1600 Central Avenue
Roselle, IL 60172 USA
Tel.: (+1) 800-323-2464

EU Contact Address:

F2 Labs, Engineering Department.
Suite 100, 12 Southbridge
Edinburgh, Scotland EH1 1DD

MODEL / TYPE / SERIAL NUMBER:

GripPack CB	/ 800770 / GGC2206901 - GGC2706901
GripPack PB-114	/ 800441 / GGT2206901 - GGT2706901
GripPack RCBS-1431	/ 800250 / GGS2206901 - GGS2706901
GripPack RCB-1031	/ 800671 / GG22206901 - GG22706901
GripPack RCB-1431	/ 800672 / GG32206901 - GG32706901
GripPack RCB-3431	/ 800670 / GG12206901 - GG12706901
GripPack SLB-34 HT	/ 801231 / GS42206901 - GS42706901
GripPack SLB-34 HS	/ 801232 / GS32206901 - GS32706901
GripPack SLB-58 HS	/ 801233 / GS22206901 - GS22706901
GripPack SLB-12 HS	/ 801234 / GS12206901 - GS12706901

REPORTS:

F2P24721C-01S, F2P24721C-01E, F2P24721C-01RS Rev1

DIRECTIVES:

Machinery Directive 2006/42/EC, EMC Directive 2014/30/EU,
RoHS Directive 2011/65/EU+(EU)2015/863

STANDARDS CONSIDERED, FULL OR IN PART:

- EN 60745-1:2009+A11:2010
- EN 60745-2-18:2009
- EN 61000-6-1:2007
- EN 61000-6-3:2007+A1:2011
- EN 63000:2018

Signode Industrial Group LLC declares under its sole responsibility that the GripPack models listed above are in conformity with the Machinery Directive 2006/42/EC, the EMC Directive 2014/30/EU, and the RoHS Directive 2011/65/EU+(EU)2015/863.

Authorized by:



Date: 3/15/2022

Name: Tim Dunlavy

Title: Manufacturing Manager

Location: Roselle, Illinois USA

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