# OPERATION, PARTS AND SAFETY MANUAL



SLP-38/12/58/34

PNEUMATIC COMBINATION STRAPPING TOOL

# **IMPORTANT!**DO NOT DESTROY

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

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

READ ALL INSTRUCTIONS BEFORE OPERATING THIS SIGNODE PRODUCT

# **AWARNING**

READ THESE INSTRUCTIONS CAREFULLY.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SEVERE PERSONAL INJURY.

#### GENERAL SAFETY CONSIDERATIONS

#### 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 severe personal injury from flying strap or tool. When tensioning or sealing, position yourself to one side of the strap and keep all bystanders away.

#### 2. TRAINING.

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.

#### 3. 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.



### 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. CUT HAZARD.

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



#### 6. TOOL CARE, MAINTENANCE & PARTS REPLACEMENT.

- Take good care of the tool. Inspect and clean it daily, lubricate it weekly and adjust when necessary. Replace any worn or broken parts.
- ALWAYS disconnect the pneumatic connection to the tool when performing part removal and replacement procedures. NEVER connect a pneumatic source to a disassembled tool unless otherwise specified.

#### 7. WORK AREA.

Keep work areas uncluttered and well lighted.

# **AWARNING**

#### 8. OPERATING SEQUENCE.

Use the correct Signode products for your application. If you need help contact your Signode Representative. Before using this sealless tool, read the Operation and Safety Instructions contained in this manual.

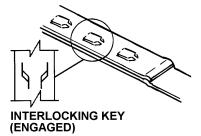
Signode tools and machines are designed and warranted to work together with Signode strapping and seals. Use of non-Signode strap, seals and/or manufactured or specified replacement parts may result in strap breakage or joint separation while applying strapping to a load or during normal shipping and handling. This could result in severe personal injury.

#### 9. JOINT FORMATION

Sealless joints are formed when overlapping straps are punched simultaneously creating interlocking keys. However, the integrity of the joint is obtained when the keys punched in the upper strap move in relation to the keys on the bottom strap, allowing the straps to interlock. The movement necessary to create the interlock comes from the strap tension release where the top strap moves one direction and the bottom strap moves in the other direction. Therefore, never attempt to make a sealless joint without having the straps under tension - the joint may come apart easily.

This tool is a punch type sealer. A properly formed joint will appear as shown in the illustration. If the joint does not appear as shown, then the operator must proceed as follows:

- A. Ensure that the tool's operating instructions are being followed before applying another strap.
- B. Ensure that tension has been applied to the straps before the sealer handle is activated. Tension is necessary to ensure that the keys fully interlock.
- C. After confirming the above cut the strap off and apply another.



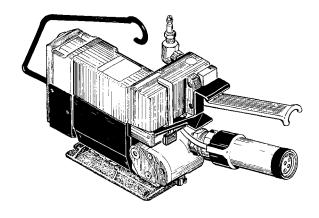
If the joint still does not appear as shown, then inspect the tool for worn and/or damaged parts. Replace tool parts as needed. NEVER HANDLE OR SHIP ANY LOAD WITH IMPROPERLY FORMED JOINTS. Misformed joints may not secure the load and could cause serious injury.

Always tuck the strap end back into the dispenser when not in use.

#### 10. CUTTING TENSIONED STRAP

Using claw hammers, crowbars, chisels, axes or similar tools can cause tensioned strap to fly apart with hazardous force. Use only cutters designed for cutting strap. Read the instructions in the cutter's manual for proper procedure in cutting strap. Before using any Signode product read its Operation and Safety Manual.

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SLP-12, Part No. 422350 SLP-58, Part No. 422355 SLP-34, Part No. 422360

SLP-38 Conversion Kit, Part No. 422399

### INTRODUCTION

The SLP is a pneumatically operated hand tool intended for use only with Signode strapping. The tool is easy to load, tension and seal.

Once the strap has been placed around the package, the operator puts both layers of strap into the tool, lowers the feed wheel, removes any strap slack and tensions the strap. The keyed sealless joint is then created and the strap is cut free of the supply.

This manual provides the information necessary for the operation of the SLP hand tool and lists all of the parts in the event maintenance is needed. Therefore, it is valuable and should be saved.

Fasteners are metric. Pneumatic components are english.

# **AWARNING**

This tool was designed and tested using Signode strap. Using non-Signode strap may adversely affect the tool's tensioning capability and the strength of the joint

# **SPECIFICATIONS**

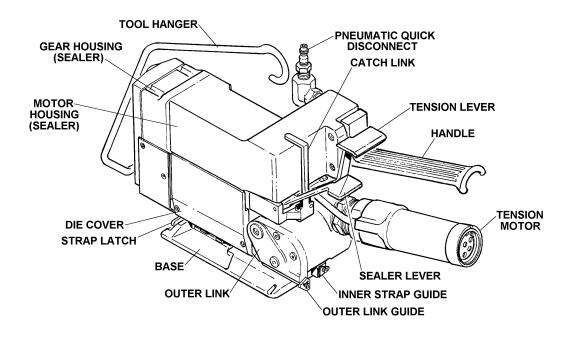
Operating air pressure: 70-90 PSI (4.8-6.2 BARS)

Physical Dimensions (w/o hanger):

Weight: 14 pounds (111N) w/ tool hanger.

MODEL		STRAP		STRAP TENSION
	TYPE	WIDTH	THICKNESS	@ 90 PSI
SLP-38		3/8" (10mm)		400 LBS (1776N) / LOW TENSION
SLP-12	APEX	1/2" (12mm)	.017" TO .025" (0.43-0.65mm)	500 LBS (2220N) / LOW TENSION
SLP-58	& Magnus	5/8" (16mm)		1200 LBS (5328N) / STD. TENSION
SLP-34		3/4" (19mm)		1200 LBS (5328N) / STD. TENSION

### **MAJOR COMPONENTS**



#### PNEUMATIC INFORMATION

### **AIR SUPPLY INSTALLATION**

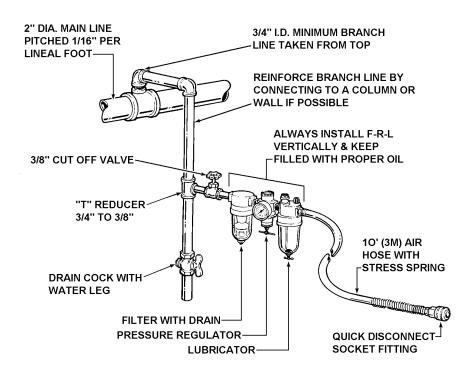
If compressor has a good dryer unit, use black pickled pipe. When a dryer unit is not installed, use galvanized or copper pipe.

To perform reliably, a pneumatic tool requires a continuous source of clean, water-free air at adequate pressure.

# AWARNING

Never operate this tool using a bottled air or gas source. Bottled air/gas sources do not provide consistent operating pressure.

A filter-regulator-lubricator unit (P/N 173111) must be installed as close to the air tool as possible, preferably within 10 feet (3M). It should be placed in a convenient location where it can easily be drained, adjusted, and filled with oil. The air hose (P/N 008558) must have at least a 3/8" (9.5mm) I.D. A quick-connect press-on socket (P/N 008569) is installed on the stress spring end of the hose for convenient hookup to the air tool.



Filter and lubricator bowls are made of polycarbonate material. Do not install where bowls may be exposed to materials incompatible with polycarbonate. Certain oils, solvents, and chemicals or their fumes can weaken these bowls and possibly cause them to burst. Clean only with warm water. A cut-off valve placed ahead of the filter will be useful when cleaning the filter or replenishing the lubricator.

#### **MOISTURE**

Moisture is always present in air lines due to condensation within the lines as the air cools. Steps must be taken to remove this moisture and to keep it from the air tool. This is because water tends to wash away lubricants and cause corrosion, sticking and failure of internal parts.

The main line should be pitched so the far end terminates in a water leg. Branch lines are taken from the top of the main, never off the bottom. Every branch should have a water leg at its lowest point, with a drain cock which is drained daily.

If these precautions are taken and water is still present, an after cooler and a moisture separator are required between the compressor and the air receiver tank. A large air line separator can be installed in the air tool line, but precautions must be taken to insure that it will be drained daily, before the air tool is operated.

Water in air lines is a constant threat to the proper operation of air tools. Even near freezing operating conditions, a good refrigerant type dryer is essential. A good dryer will remove 95% or more of water right at the compressor. The remaining moisture is removed at the water leg in the piping system or in the filter, Signode Part No. 173111. Additional information is available in the Signode publication, "Air Supply Manual" Signode Part No. 186038. If you have any questions, contact your local Signode Representative.

#### **LUBRICATION**

The air motor must be properly lubricated. This is achieved by keeping the air line lubricator filled with oil and correctly adjusted. Without proper lubrication, the motor will become sticky and the tool will give low and erratic tension and be difficult to release from the strap.

Install the lubricator as close to the air tool as possible. The arrow on the lubricator's top surface must point in the direction of air flow.

For proper operation, oil must drop through the lubricator sight glass at a rate of 4 to 10 drops per minute. This rate is to be checked while the air tool is running free. Only 20% of this oil is actually delivered to the tool. The remaining oil drops back into the oil reservoir. The unit is factory set and should require no adjustment. If an adjustment is required, the adjusting screw on top of the lubricator may be turned as marked to reduce or increase the flow of oil.

The correct grade of oil must be used in the lubricator; too heavy an oil will not provide sufficient lubrication and will cause sticking and sluggish operation of the air tool.

Recommended oils are any good grade of rust and oxidation inhibiting oil with a viscosity of 80-120 S.U.S. at 100 degrees Fahrenheit. (0.15 to 0.25 cm<sup>2</sup> /sec. at 38 degrees Celsius), such as:

Non Fluid Oil Co., grade #LS-1236 Signode oil - Part No. 008556

If necessary, use SAE #5 or SAE #10, non-detergent, cut 1:1 with kerosene. Some oils contain anti-wear additives which may disable the air motor. Be certain to use recommended oil.

Several drops of lubricator oil added to the inlet of the air motor or into the air line each day will help insure good operation. A noticeable reduction of air motor performance can usually be corrected by squirting a few drops of oil into the air line.

### **PNEUMATIC INFORMATION, Continued**

#### **COLD WEATHER OPERATION**

If a tool does not operate satisfactorily in freezing temperatures, certain steps can correct the problem. The following steps can be taken to improve cold weather operation of the tool:

- a. An air line dryer adjacent to the compressor.
- b. Use lubricant recommended by Signode. Signode has tested the use of anti-freezes, none work well in air tools; the tool will gum up when anti-freezes are introduced and will not function properly. The best lubricant for freezing weather is the 1 to 1 oil and kerosene combination.
- c. If possible, run the air supply line to a indoor located Filter-Regulator-Lubricator or relocate the F-L-R to a warmer operating area.

#### **AIR CONSUMPTION**

Air consumption in cubic feet per minute (cfm) for the SLP can be calculated as follows:

```
cfm = (a)x(b)x(0.40)
```

- a = Number of straps applied per minute.
- b = Number of seconds air motor is on per strap during tensioning, from start to finish sealing.
- 0.40 = SLP efficiency ratio.

#### **Example calculation:**

(a)x(b)x(0.40)=4x5x0.40=8.0 cubic ft/min.

Peak strapping load is 4 straps/minute, so a=4. Air motor is on 5 seconds/strap, so b=5. SLP efficiency ratio is 0.40.

Air pressure is assumed to be 90 psig with the recommended size and length of air hose. Volume of air at room temperature and sea level pressure, or so-called `free air' conditions. For more detailed information about air supply systems, refer to Signode manual Part No. 186038.

#### **AIR LINE PRECAUTIONS**

Too much air pressure can cause internal tool damage. The maximum operating air pressure for this tool is 90 psig.

# AWARNING

Strap breakage hazard. Strap breakage can result in severe personal injury. Strap can break during tensioning if inlet air pressure to tool exceeds 90 psig.

Maximum operating air pressure is 90 psig.

#### **OPERATING INSTRUCTIONS**

# **AWARNING**

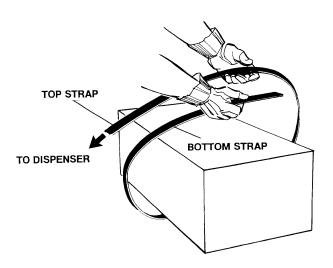
Wear safety glasses and gloves.
Always position yourself to one side of the strap.
Make sure all bystanders are clear before proceeding.

#### 1. STRAP LOADING

Make sure the strap being used is the proper size for the tool model being used.

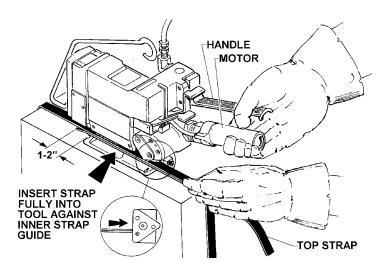
Refer to the Specifications section on page 5 of this manual.

Pass the strap over the top of the package then bring the lead end around and up. This will result in creating a TOP STRAP and a BOTTOM STRAP. They will be referred to later in these instructions.



#### 2. POSITIONING THE TOOL

Squeeze the tension motor and the handle together to create an opening between the feedwheel and the clutch plug. Grasp the TOP STRAP and BOTTOM STRAP together and insert both straps sideways into the tool between the feedwheel and the clutch plug. Allow for the lead end of the strap to protrude 1" to 2" beyond the tool base. When the straps are properly loaded, the sealing mechanism will be in line with the strap. Release the tension motor.

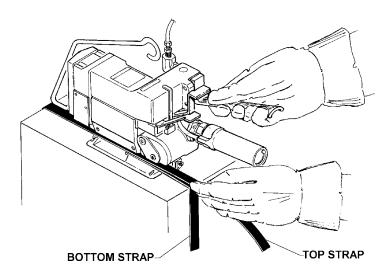


### **OPERATING INSTRUCTIONS, Continued**

#### 3. REMOVING THE STRAP SLACK

Pull back on the TOP STRAP to eliminate additional slack strap around the package. NOTE: Do not push down on the handle or slack pull-out may become difficult. Do not lift tension motor or straps will slip.

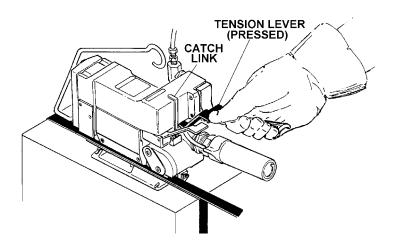
Before continuing, make sure the TOP STRAP is still in position, as described earlier. Make sure that both straps are also correctly aligned with each other in the tool.



# 4. TENSIONING THE STRAP

While standing to one side of the strap, press tension lever (#1) all the way down until it latches into place.

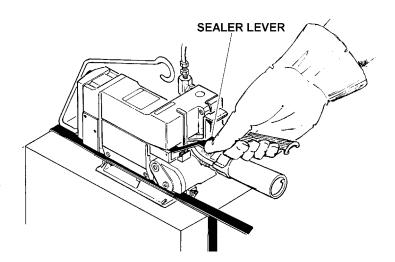
The strap will tension around the package until the proper tension level has been reached, at which time the motor will stall.



NOTE: If strap alignment on the package is unsatisfactory and it becomes necessary to shut off the tool during tensioning portion of the cycle, move the catch link to the left to allow the tension lever to release and stop tensioning. Cut the strap off and apply a new strap in a more favorable position.

#### 5. FORMING THE STRAP JOINT

Press the sealer lever (#2) down and release (Do not hold sealer lever down during the entire sealing cycle). Air will be then routed to the second air motor enabling the sealer mechanism to punch the strap and cut-off the TOP STRAP. The sealer mechanism will disengage from the strap leaving the cut off end of the strap clamped under the feedwheel.

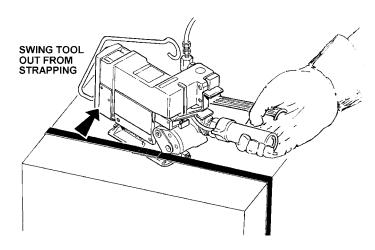


#### NOTES:

- Holding the sealing lever down will result in the tool attempting continuous sealing cycles.
- Never activate tension lever with a single strap under the feedwheel as this will cause the tool to lock up.
- If the tool does not fully cycle in making the strap joint, it cannot be removed from the strap.
- If the tool does not complete the strap cycle, check for proper operating pressure of 70-90 psi. (4.8-6.2 Bar).
- If the tool stalls using proper air pressure, disconnect air supply and cut strap off of package. Remove the side covers and inspect the tool for broken parts.

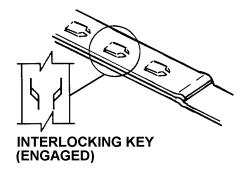
# 6. TOOL REMOVAL & JOINT INSPECTION

Squeeze the tension motor and the stationary handle together to release the cut off strap end.
Swing the SLP tool out from under the strap. To make sure the tool has properly formed a joint, closely inspect the strap. Refer to Sealing Operation on the following page for details regarding an acceptably formed joint.



### STRAP JOINT APPEARANCE & FORMATION

A properly formed joint will appear as shown in the illustration to the right.



# **ADANGER**

If the joint does not appear as shown, then the operator must proceed as follows:

- Make sure that the tool's operating instructions are being followed before applying another strap.
- Make sure that tension has been applied to the straps before the sealer handle has been actuated. <u>Tension is necessary to ensure that the keys fully interlock.</u>

After confirming the above, cut off the strap and apply another. If the joint still does not appear as shown, then inspect the tool for worn and/or damaged parts. Replace tool parts as needed. NEVER HANDLE OR SHIP ANY LOAD WITH IMPROPERLY FORMED JOINTS. Misformed joints may not secure the load and could cause serious injury.

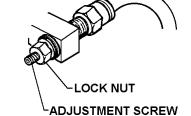
### PART REMOVAL, REPLACEMENT & TOOL ADJUSTMENTS

The following procedures describe only the areas of the SLP which require specific maintenance instruction. Basic disassembly procedures are not covered within the context of this manual in order to avoid any unnecessary labor.

#### **ADJUSTING STRAP TENSION**

# **AWARNING**

- 1. Wear safety glasses with side shields that conform to ANSI Standard Z87.1 or EN-166.
- 2. Always wear properly fitting protective gloves when handling strap or sharp parts.
- 3. Stand to one side of the tool, making sure you have maintained proper balance.
- 1. Properly insert strap into the tool.
- 2. Do not exceed 90 PSIG.
- Turn the tool on by pushing the tool's "Tensioning Lever". Loosen the lock nut.
- 4. Turn the needle valve or pressure adjustment screw (see illustration) until the tool stops running.



5. Slowly adjust the needle valve or pressure adjustment screw (see illustration) in 1/4 turn increments until the desired tension has been achieved. Tighten the lock nut.

NOTE: Review page 5 for tool specifications on regarding strap tension levels.

# AWARNING

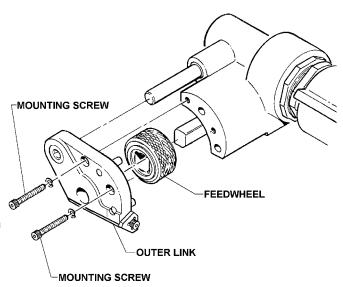
Certain strap sizes could break when increasing tension. Stand to one side of the tool, out of the way of the strap path.

If the strap breaks before the desired tension for your application is achieved, turn the pressure adjustment screw or needle valve 1/4 turn increments (see illustration) until desired tension is reached. If the tension level you have achieved does not properly secure the load in your application, contact your Signode Sale Representative.

# PART REMOVAL, REPLACEMENT & TOOL ADJUSTMENTS, Continued

#### **FEEDWHEEL**

- To replace the feedwheel, remove the two socket head cap screws which secure the outer link.
- 2. Remove the outer link from the gear housing.
- Slide the feedwheel off the feedwheel shaft. The counterbore face of the feedwheel must face the outer link in order to match up with the flange bushing in the outer link.
- 4. Replace the feedwheel in the same manner in which it was removed.
  Feedwheel clearance should be checked after replacing any parts associated with the tensioning system (See "Clutch Plug"). This clearance should be maintained to prevent the feedwheel from touching the Clutch Plug and encouraging early failure of these parts.



#### **CLUTCH PLUG**

The clutch plug holds the lower strap in the tool as the strap is being tensioned around the package. This means that the clutch plug must extend beyond the surface of the base if it is to work.

However, if the clutch plug extends too far it can interfere with the teeth of the feed wheel and both parts can be damaged if the feed wheel is turned without strap being present in the tool.

- 1. The position of the clutch plug is maintained by use of a small set screw that approaches at a right angle. Remove this set screw then place the tool on its back.
- From the lower side of the base install the clutch plug. Turn the clutch plug inward as needed to obtain the proper clearance as shown in the view below.
- SET CLEARANCE TO THE THICKNESS OF ONE STRAP, MINUS (-) .001"-.005" (0.02-.13mm)

  GRIPPER PLUG SET SCREW

  TENSIONER BASE
  GRIPPER PLUG

FEED WHEEL

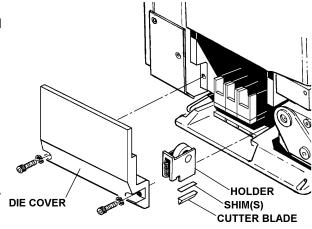
4. When the proper clearance has been reached, install the set screw into the base to maintain the position of the clutch plug.

#### **CUTTER**

The cutter may have to be adjusted if the tool has been altered to accept a different width or thickness of strap or an adjustment may be needed if the cutter has been replaced due to wear or damage.

Run a cycle with strap of the size to be used. A properly adjusted cutter will sever the top strap completely but the lower strap will have a minimal impression, at the most. Excessive scoring of the lower strap is an indication of over cutting and this is not acceptable. A reducing adjustment must be made. If the cutter doesn't cut the top strap, an increasing adjustment must be made.

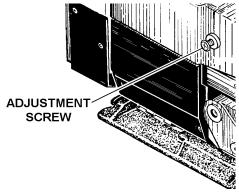
- 1. Lay the tool on its back. Remove the two socket head cap screws that secure the die cover to the sealer mechanism. Remove the cover to expose the three individual dies and the cutter.
- 2. Remove the cutter holder by sliding it straight out of the sealer assembly. Continue to remove the cutter blade and any installed shims from the holder.
- Closely inspect the cutting surface. If it's
  acceptable, reinstall the cutter assembly and
  replace the cover. Otherwise if necessary,
  rotate the blade to one of the unused cutter
  surfaces. If the cutter is not worn or
  damaged, continue by making necessary
  cutter blade adjustments.
- 4. Add an additional shim (Part No. 422056) over the cutter blade and reinstall the cutter holder into the tool.
- 5. Run a cycle and closely inspect the bottom strap. If the top strap has been properly cutoff and there is no impression on the bottom strap, all is as it should be. However, if the top strap is not being cut-off, return back to step 4.



When strap cut-off appears to be functioning properly, make sure the die cover has been securely fastened to the tool.

#### **SEALER MOTOR**

If the sealer motor rotates too fast, the camshaft may "overrun" after the motor shuts off causing the dies to start downward as if going into the next sealing cycle. This action will make strap removal difficult or impossible. To correct this condition, slow down the sealer motor as follows: Hold the sealer lever down while turning the adjustment screw inward (clockwise) until a noticeable change in motor speed can be heard. Run a sample strap cycle to test the tool.



### **TROUBLESHOOTING**

The following items are the most common tool symptoms if problems occur. For symptoms or remedies not shown, contact your Signode service representative for additional information and details. The following tool symptoms are shown in this manual:

- #1 Difficult strap slack removal.
- #2 Bottom strap pulls out while loading strap.
- #3 Tool does not tension when tension lever is pressed.
- #4 Strap tension is too low or too high
- #5 Tool does not complete sealing cycle.
- #6 Strap does not cut after sealing cycle.
- #7 Bottom strap breaks during sealing.
- #8 Tool cannot be removed from strap after completion of strap cycle.

#1 SYMPTOM: Difficult strap slack removal.			
	CAUSE		REMEDY
1.	Improper strap being used.	1.	Check that waxed strapping of the correct width is being used.
2.	Worm wheel mechanism worn or broken.	2.	Repair or replace worm wheel components.

#2 S	#2 SYMPTOM: Bottom strap pulls out while loading strap.			
CAUSE REMEDY			REMEDY	
1.	Improper strap being used.	1.	Check that waxed strapping of the correct width is being used.	
2.	Feedwheel clearance incorrectly set.	2.	Check feedwheel clearance, adjust if necessary.	
3.	Dirty or worn clutch plug.	3.	Clean or replace clutch plug as required.	

#3 S	#3 SYMPTOM: Tool does not tension when tension lever is pressed.			
	CAUSE		REMEDY	
1.	Improper strap being used.	1.	Check that waxed strapping of the correct width is being used.	
2.	Feedwheel clearance incorrectly set.	2.	Check feedwheel clearance, adjust if necessary.	
3.	Dirty or worn feedwheel.	3.	Clean or replace feedwheel as required.	
4.	Straps improperly aligned.	4.	Reload and realign straps.	
5.	Feedwheel not rotating.	5.	Inspect gear housing for broken parts.	

#4 SYMPTOM: Strap tension is too low or too high.		
CAUSE REMEDY		
Strap tension incorrectly set.	Adjust strap tension per instructions on page 13 of this manual.	

#5 3	SYMPTOM: Tool does not complete sealing	ig cycle.	
	CAUSE		REMEDY
1.	Improper strap being used.	1.	Check that waxed strapping of the correct width and thickness is being used.
2.	Worn or broken dies and/or punch.	2.	Inspect dies and punch replace as required.
3.	Insufficient air pressure.	3.	Check that air supply available is at least 60 psi (4.0 bar).

#6 S	#6 SYMPTOM: Strap does not cut after sealing cycle.		
	CAUSE		REMEDY
1.	Improper cutter clearance.	1.	Inspect strap for proper cut-off, adjust cutter clearance if necessary.
2.	Worn or broken cutter blade.	2.	Inspect cutter blade, replace or rotate as required.

#7 S	#7 SYMPTOM: Bottom strap breaks during sealing.			
	CAUSE		REMEDY	
1.	Improper cutter clearance. (Strap breaks at cutter.)	1.	Inspect strap for proper cut-off, adjust cutter clearance if necessary.	
2.	Tension set too high. (Strap breaks at the joint area.)	2.	Reduce strap tension.	
3.	Worn or broken dies and/or punch. (Strap breaks at the joint area.)	3.	Inspect dies and punch replace as required.	
4.	Package has sharp corners. (Strap breaks at package corner.)	4.	Lower strap tension or use package corner protectors.	

#8 SYMPTOM: Tool cannot be removed from strap after completion of strap cycle.			
	CAUSE		REMEDY
1.	Punches & Dies worn.	1.	Inspect parts, replace punches and dies as needed.
2.	Sealer motor running too fast.	2.	See Sealer Motor adjustment on page 15 of this manual.

### **CHANGING SLP STRAP SIZE**

The following table illustrates the unique parts to a particular strap size for the SLP tool. If the strap size of the tool is to be changed, this table must be used to coordinate all the respective parts which must be replaced.



Do not attempt to convert a tools strap size without replacing all of the specified parts for the conversion. Failure to replace all required parts may cause severe personal injury.

### **UNIQUE PARTS TO SLP STRAP SIZES**

KEY	QTY	DESCRIPTION	SLP-38	SLP-12	SLP-58	SLP-34
32	1	Nameplate	422652	422185	422184	422183
60	3	Cutting Insert	422059		422749	
66	1	Inner Guide	422653	422353	(Rotate as re	quired.)
71	1	Punch	422058		422748	
72	1	Strap Guide, Front	422392	422177	422176	422175
73	1	Strap Latch	422771	422684	422683	422768
91	1	Strap Guide	422776	422746 (Rotate as required.)		quired.)
119 & 120	Adjus	P TENSION t as required, v page 12.	LOW (400 Lbs.)	LOW (500 Lbs.)		IDARD ) Lbs.)
123	1	Tension Motor	424	170	424	4150

NOTE: An SLP-38 Tool can be converted from any standard SLP-12 by ordering the SLP-38 Conversion Kit (Part No. 422399).

#### **TOOL MAINTENANCE**

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 the Parts Removal, Replacement & Adjustments portion of this manual for information and details.

#### **SERVICE INTERVALS**

This tool, like most Signode tools, can be used with various sizes of strap which cause different rates of component wear. Also, wear is affected by the environment and tension that the tool applies. In the worst case, heavy gauge wide strapping. All critical moving components of the tool should be inspected at particular intervals, some more often than others. Broken parts can decrease 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 all formed or formed improperly.
- B. Sealing effort requires higher air pressure or tool is difficult to remove from strap.
- C. When scheduled.

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

The feed wheel and the clutch plug teeth are also subject to wear and chipping. A daily cleaning of these parts by brushing off debris will be important to maintaining long life. The first indication of wear will be strap slippage during tensioning. The operator of the tool should be instructed on how to determine when the strap slips during tensioning. Sometimes the teeth need to be cleaned with a wire brush, but if slipping is allowed to continue, the parts will need to be replaced. Using the tool in a dirty environment will increase feedwheel and clutch plug wear.

NOTE: On some Signode tools the feedwheel can be cleaned by holding the tool open in the strap loading position while the tool runs without strap and using a wire brush to clean the feedwheel as it rotates.

Inspect the components of the tensioner mechanism when:

- A. Strap slips when being tensioned.
- B. Evidence of feedwheel milling on the strap face.
- C. When scheduled.

#### **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.



# **EU Declaration of Conformity**

The Supply of Machinery (safety) Regulations 1992 (S.I. 1992/3073)

It is hereby declared that the undermentioned machinery has been designed and constructed to comply with the health and safety requirements defined in EC Directive 89/392/EEC

Machine Supplier: Signode, Division of ITW Ltd.

Queensway, Fforestfach Swansea SA5 4ED

Machine Description: SLP Series

Machine Type: Pneumatic Combination Hand Strapping tool.

Provisions with which machine complies:

89/392/EEC, 91/368/EEC

Harmonized EuroNorms with which machine complies:

EN 292:1, EN 292:2, EN 294, EN 349

Technical Standards with which machine complies:

NA

Signature: Date: 1 JUN 2000

(Peter Oseland)

# SIGNODE NEW TOOL WARRANTY

Signode Engineered Products Warrants that a new Signode strapping tool will operate per functional specifications for a period of sixty (60) days after the date of shipment to the owner's place of business. Normal wearing parts, as outlined in the Operation, Parts & Safety manual, are covered by a thirty (30) day warranty unless, in Signode's judgement, these parts have been subjected to abnormal or extreme usage. Signode's sole liability hereunder will be to repair or replace, without charge, F.O.B. Signode's Glenview, Illinois plant, any tool which proves to not operate per functional specifications within the stated period. Signode reserves the right to replace any tool which proves not to operate per functional specifications with a new or like-new tool of the same model if in Signode's judgement such replacement is appropriate. Any new replacement tool provided to an owner will carry a full sixty (60) day warranty. Any warranty repaired tool or like-new replacement tool will carry a warranty for the balance of the time remaining on the initial sixty (60) day warranty. This warranty will be extended to compensate for the time the tool is in Signode's possession for warranty repairs.

This warranty is void as to any tool which has been: (I) subjected to mis-use, misapplication, accident, damage, or repaired with other than genuine Signode replacement parts, (II) improperly maintained, or adjusted, or damaged in transit or handling; (III) used with improperly filtered, unlubricated air or improper strapping material, (IV) in Signode's opinion, altered or repaired in a way that affects or detracts from the performance of the tool.

SIGNODE MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS OR OTHERWISE EXCEPT AS STATED ABOVE AND SIGNODE'S LIABILITY AS ASSUMED ABOVE IS IN LIEU OF ALL OTHERS ARISING OUT OF OR IN CONNECTION WITH THE USE AND PERFORMANCE OF THE TOOL. IT IS EXPRESSLY UNDERSTOOD THAT SIGNODE SHALL IN NO EVENT BE LIABLE FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES WHICH MAY ARISE FROM LOSS OF ANTICIPATED PROFITS OR PRODUCTION, SPOILAGE OF MATERIALS, INCREASED COSTS OF OPERATION OR OTHERWISE.

Considerable effort has be 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.

PART#	DESCRIPTION	AREA OF USE
LUBRICA	NTS	
177029	GEAR HOUSING GREASE	CLUTCH DRIVES, INTERNAL GEARS, GEAR SETS
422792	WHITE LUBRIPLATE GR-132 GREASE	PNEUMATIC PARTS, AIR CYLINDERS, AIR VALVES, O-RINGS
422793	BLACK LUBRIPLATE 3000W GREASE	MOVING INTERNAL PARTS, JAWS, LINKS
432322	EP ACCROLUBE GREASE	HIGH FRICTION CONTACT PARTS
008556	LS-1236 AIR LINE OIL	AIR MOTORS, AIR VALVES
ADHESIV	ES	
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 PART CONTACT
CLEANIN	G BRUSHES	
023963	SMALL BRUSH	FEEDWHEEL & GRIPPER TEETH
269589	LARGE BRUSH	FEEDWHEEL & GRIPPER TEETH