OPERATION, PARTS AND SAFETY MANUAL



HSIGNODE®

AH-114

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

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.

- If the load corners are sharp use edge protectors.
- 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.

- Inspect and clean the tool daily. Replace all worn or broken parts.
- Lubricate all moving parts daily.
- On air powered tools, 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.

Use the correct Signode products for your application. If you need help contact your Signode Representative.

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.

JOINT FORMATION

- 1. Before using this tool, read its Operation and Safety Instructions contained in this manual.
- 2. This tool is a double reverse notch type sealer. Each joint must be inspected to make certain it has four (4) good notches. 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. Cut the strap off and apply another.
- 3. An improperly formed seal which does not have four (4) good notches, could result in strap separation. Before moving any package be certain that the seal is formed as shown. Inspect the joint to make certain it appears 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.

MOVING AND STACKING STRAPPED LOADS

Before moving or stacking any strapped load, follow all standard industry practices regarding safe material handling procedures.

CUTTING TENSIONED STRAP

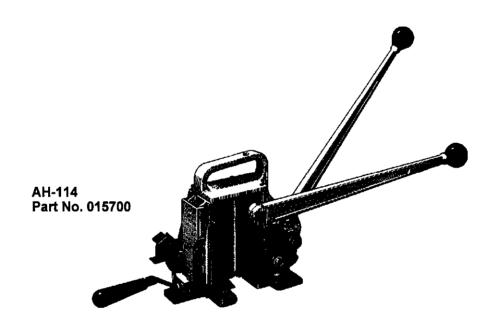
Using claw hammers, crowbars, chisels, axes or similar tools will cause tensioned strap to fly apart with hazardous force. Use only cutters designed for cutting strap. Read the instructions in the cutters manual for proper procedure in cutting strap. Before using any Signode product read its Operation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

TOOL CLEANING & LUBRICATION

Clean and apply a light weigth machine oil to all moving parts on a weekly basis. Clean the feedwheel daily with a wire brush. Refer to the Pneumatic Information shown in this manual for lubricant recommendations with regard to the air motor.

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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



SPECIFICATIONS

	STRAP			
MODEL	TYPE	WIDTH	THICKNESS	SEALS
AH-114	Apex & Magnus	1 1/4" (32mm)	0.031" (0.78mm) Min. 0.035" (0.88mm) Max.	114P

TOOL INSTALLATION

To work effectively, the AH tool must be properly installed. This installation includes, in some cases, proper suspension of the tool over the container to be strapped and the proper placement of the strapping dispenser to provide a continuous easy supply of strapping for the application.

Wear safety glasses which conform to ANSI Standard Z87.1 or EN 166.

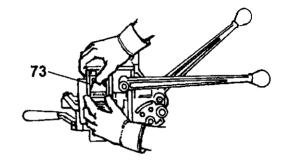
Stand to one side of the strap while tensioning.

Make sure all bystanders are clear before proceeding.

Failure to follow the above could result in severe personal injury.

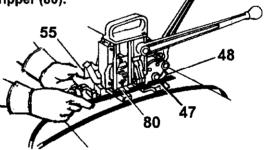
LOADING SEALS

To load seals, raise the seal follower (69) and insert a stack of seals through the opening in the side of the magazine (73). Make sure the seal stack is pushed all the way in. You can load seals at any time without waiting for the seal stack to run out by breaking a stack and loading as many or as few seals as you wish. A lower extension on the seal follower closes the top strap loading slot as a reminder to add seals.

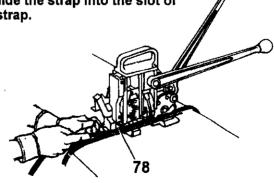


STRAPPING CYCLE

1. Encircle the package with the strap and insert the lower strap end under the feedwheel (48) and allow it to extend beyond the clutch plug (47). Press the gripper release assembly (55) to actuate the strap gripper (80).



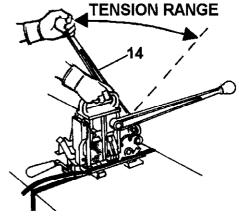
2. Insert the top strap beneath the feedwheel and slide the strap into the slot of the strap guide (78). Pull excess slack from the strap.



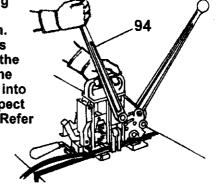
3. While standing to one side of the strap line, pull the tensioning handle (14) back and then forward to draw tension. Repeat this action until the desired strap tension is obtained.

AWARNING

Do not return the handle all the way to the detent position as this will release the tensioned strap.



4. When the desired tension has been reached, the sealing and cut-off cycle is completed by pulling back on the sealing handle (94), bringing it to its maximum position. This motion seals and cuts off the strap and also opens and cocks the strap gripper for the next cycle. Return the sealing handle to its forward position. This will raise the sealing mechanism off the strap and feed another seal into the jaws. The tool is now ready for the next cycle. Inspect the seal to make sure a proper joint has been formed. Refer to the view on page 4 for details.



To remove the tool from the strap, push the tensioning handle to the forward position, making sure it locks in the detent. Swing the rear handle to the left until the tool is free of the strap.

AWARNING

NEVER HANDLE OR SHIP ANY LOAD WITH IMPROPERLY FORMED JOINTS. Misformed joints may not secure the load and could cause serious injury. Follow the joint inspection procedures in each sealers's manual.

PARTS LIST

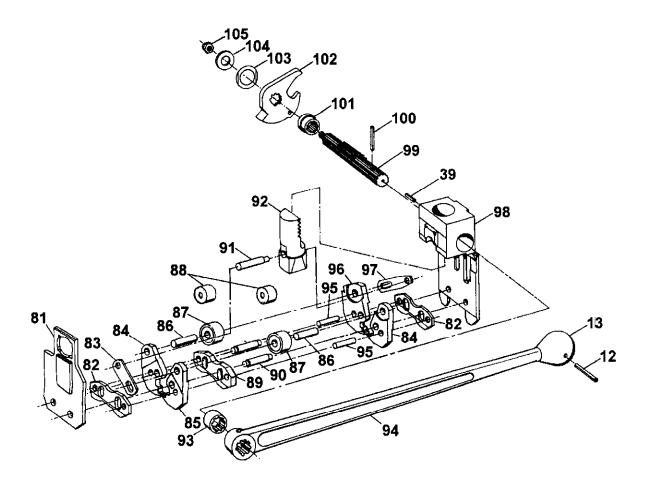
1 4 009397 Socket head screw, 10-24 x 1/2" lg. 2 1 015749 Handle 3 1 015736 Cam roller 4 1 015730 Cam roller pin 5 1 026133 Roll pin, 1/8" x 1" lg. 6 2 008845 Socket head screw, 5/16-18 x 7/8" lg. 7 1 015771 Sealer frame 8 1 013631 Socket head screw, 5/16"-18 x 1 1/4" lg. 9 1 092175 Roll pin, 5/32 x 3/4" lg. 10 2 008901 Roll pin, 1/8 x 3/4" lg. 11 1 023710 Long-Lok set screw, 5/16"-18 12 2 010057 Roll pin 1/4" x 1 3/4" 13 2 010054 Knob 14 1 015762 Tensioning handle 15 1 015719 Driving pawl 16 1 015725 Driving pawl spring 17 1 012546 Roll pin, 3/32" x 1/2" lg. 18 1 015723 Pawl pin 19 1 008148 Roll pin, 1/8" x 7/16" lg. 20 1 057118 Bushing 21 1 015716 Bottom gear 22 1 015724 Support pin 24 1 015721 Holding pawl spring 25 1 015717 Holding pawl 26 2 015745 Bushing	<u>KEY</u>	<u>QTY</u>	PART NO	DESCRIPTION
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25 1 015717 Holding pawl	24	1	015721	
The state of the s	25	1	015717	
	26	2	015745	Bushing
27 1 015766 Gear housing	27	1	015766	Gear housing
28 1 015746 Bushing	28	1	015746	Bushing
29 1 008852 Knob	29	1	008852	Knob
30 1 015789 Reaction handle assembly	30	1	015789	Reaction handle assembly
31 1 015739 Feedwheel shaft	31	1	015739	Feedwheel shaft
32 1 015782 Detent plunger	32	1	015782	Detent plunger
33 1 005165 Detent spring	33	1	005165	Detent spring
34 1 005279 Detent bushing	34	1	005279	Detent bushing
35 1 015732 Shoulder screw, 3/8" dia. x 3/4" lg.	35	1	015732	
36 1 015764 Base	36	1	015764	Base
37 2 005211 FlexIoc nut, 5/16"-18	37	2	005211	Flexioc nut, 5/16"-18
38 1 007707 Detent washer	38	1	007707	Detent washer
39 2 005214 Roll pin 1/4" x 3/4" lg.	39	2	005214	Roll pin 1/4" x 3/4" lg.
40 1 009336 Flat point set screw, 1/4-28 x 3/4" lg.	40	1	009336	Flat point set screw, 1/4-28 x 3/4" ig.
41 1 004526 FlexIoc nut thin, 1/4"-28	41	1	004526	FlexIoc nut thin, 1/4"-28
42 1 005768 Roll pin, 3/16" x 1/2" lg.	42	1	005768	Roll pin, 3/16" x 1/2" lg.
43 1 023709 Spring pin	43	1	023709	Spring pin
44 1 023654 Spring, strap guide	44		023654	
45 2 009016 Socket head screw, 5/16"-18 x 1" lg.	45	2	009016	Socket head screw, 5/16"-18 x 1" lq.
46 2 008151 Socket head screw, 5/16"-18 x 1 1/2" lg.	46	2	008151	
47 1 023672 Clutch plug assembly	47	1	023672	
48 1 015740 Feedwheel	48	1	015740	
49 1 015722 Energizing spring	49	1	015722	Energizing spring

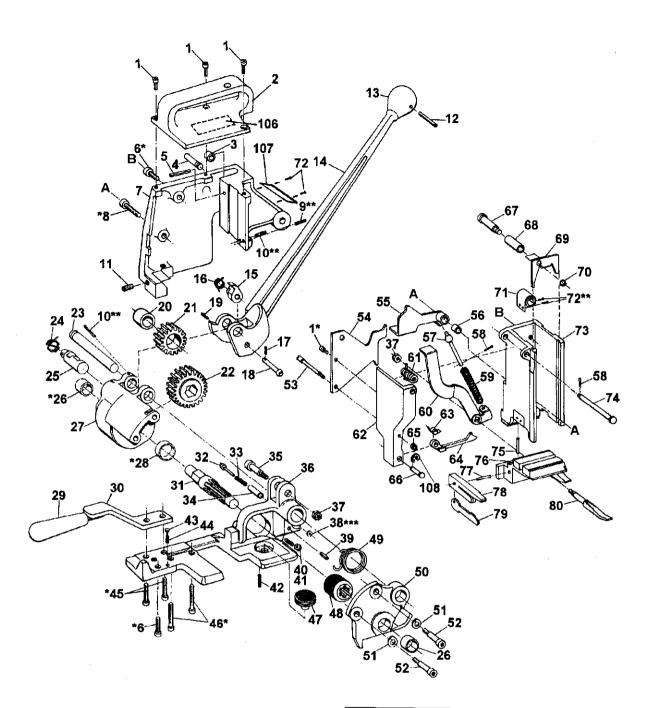
PARTS LIST, Continued

<u>KEY</u>	<u>QTY</u>	PART NO	DESCRIPTION
50	1	015760	Outer link
51	2	002188	Split lockwasher, 5/16" I.D.
52	2	015741	Shoulder screw, 5/16" dia. x 3/4" lg.
53	1	015711	Gripper drive pin
54	1	015710	Ejector arm
55	i	015708	Gripper release assembly
56	1	015709	Gripper release bushing
57	i	015734	Spring spacer
58	2	001621	Cotter pin, 3/32" x 1/2" lg.
59	1	006741	Spring, strap gripper
60	i	015735	Gripper lever assembly
61	i .	023641	Ejector lever spring
62	i	015751	Ejector frame
63	i	020629	Ejector name Ejector spring
64	1	023633	Ejector Ejector
65	1	023633	•
66	1		Flexioc nut, 10-32
	1	015713	Lower ejector pin
67 69		015773	Magazine spring pin
68	1 1	023631	Sleeve, magazine spring
69 70	1	023646	Seal follower
70		006747	Retaining ring
71 70	1	020640	Magazine spring
72	4	004939	Drive screw
73	1	023607	Magazine
74	1	015712	Ejector pin
75 	1	012582	Dowel pin, 3/16" x 1" lg.
76	1	023617	Cutter block
77	1	023725	Strap guide pin
78	1	023621	Fixed rear strap guide
79	1	023622	Movable rear strap guide
80	1	015706	Strap gripper
81	1	015754	Cutter blade
82	2	015701	Outside notcher
83	1	015718	Front link
84	2	015655	Jaw
85	1	015758	Narrow jaw
86	2	015775	Follower pin
88	2	160320	Roller
89	1	015727	Inside notcher
90	2	015705	Jaw pin
91	1	015731	Ram pin
92	1	015752	Ram
93	1	015729	Short pinion bearing
94	1	015767	Sealer handle
95	2	015703	Notcher pin
96	1	015756	Locking jaw
97	1	015707	Rear link

<u>KEY</u>	<u>QTY</u>	PART NO.	DESCRIPTION
98	1	015769	Jaw support
99	1	015753	Pinion
100	1	014810	Roll pin, 1/4" x 1 1/4" lg.
101	1	015728	Sealer pinion bearing
102	1	015761	Sealer cam
103	1	014549	Brake spring
104	1	015774	Flat washer, 7/16" I.D. X 1" O.D.
105	1	003868	FlexIoc nut, 3/8"-24
106	1	003132	Caution plate
107	1	002495	Nameplate
108	1	026866	Truarc

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.





- * Use Loctite #242 or equivalent.
- ** Use Loctite #271 or equivalent.
- *** Rivet in place

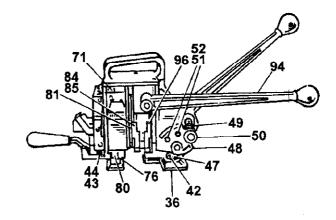
Inspect all parts daily and replace them if they are worn or broken. Failure to do this can affect a product's operation and could result in serious personal injury.

PARTS REPLACEMENT

To replace the strap gripper (80), the cutter block (76), magazine spring (71), cutter blade (81), or any parts of the sealing mechanism, follow this procedure:

- 1. Remove the three cap screws (1) and the handle (2).
- 2. Remove the two cap screws (6 and 8) from the side of the tool and the 5 screws from the bottom (6, 45 and 46).
- 3. Lay the tool on its left side and pull the top of the magazine to the rear to lift out.

When reassembling the tool, first insert a pin into the tapped hole in the magazine at point "A". Secondly, replace screw (6) at point "B", and the five bottom screws.



Insert the screw (8) at point "A" by sliding the screw in while pushing out the pin.

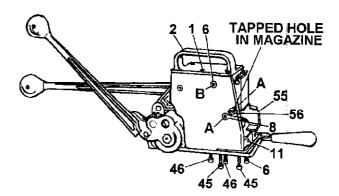
When replacing the sealing mechanism, the sealing jaws (84, 85 and 96) must be in the upper position with the sealing handle (94) forward. The strap guide spring (44) and pin (43) must be in the proper position.

To replace the feedwheel, (48), remove the two shoulder screws (52) and lockwashers (51). Pull the outer link (50) off the tool. Be careful of the energizing spring (49) which may slip off the gear housing (27). Pull off the feedwheel and replace with a new one.

To replace the clutch plug (47), tap the center of the plug through the hole in the bottom of the base (36). If the roll pin (42) does not come out with the clutch plug, drive it out also. Press the roll pin into the hole in the new plug. Tensioning a strap will properly seat the plug and pin if the holes are aligned.

ADJUSTMENTS

if the cutter blade (81) does not cut properly, pull the sealing handle (94) to the rear position, loosen the two screws on the side (6 and 8) and the two screw on the bottom (46). Adjust the set screw (11) to take up the clearance between the cutter blade and the cutter block (76). The sealer mechanism must not bind after adjustment. Retighten all screws.



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.

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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.

Thank you for your help.

SIGNODE ENGINEERED PRODUCTS

Hand Tool Division
3620 W. Lake Avenue, Glenview, Illinois 60025