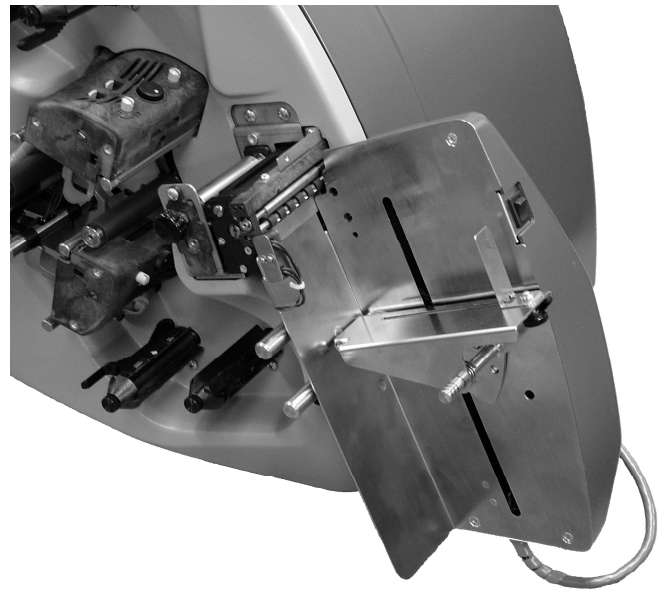


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Users Manual



# Model SNAP Downstacker Option



**AVERY DENNISON**  
**Manual Edition 3.0**

**11 June 2010**

Manual Part Number 588098

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# Scope

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## Introduction

This user manual was arranged for the person who is going to operate the machine. The information is arranged in the order that is needed to install and operate the machine. It starts with general information, then to unpacking, installing, stacker operation and finally care and maintenance of the stacker.

We at AVERY DENNISON hope that you will come to appreciate the efforts and quality that have gone into producing your AVERY DENNISON 500 Stacker and wish to remind you that you are our number one priority. We welcome any constructive comments or criticisms so that we may continue to offer you the best products in the industry for years to come.

# Warranty Information

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## Warranty Policy

Avery Dennison Retail Information Systems, In-Plant Printing Solutions provides the following warranty policy.

### Scope

Warranties against defects from workmanship for equipment and parts manufactured and sold from Sayre, PA. Includes time and material except as otherwise noted below.

### Time

- New equipment and parts: 6 months
- Refurbished equipment and parts: 90 days
- Warranty period starts when equipment ships from selling location.

### General Conditions

Avery Dennison extends warranty coverage under the following conditions.

- Equipment and parts will perform within published specifications. Promised or implied statements by any Avery Dennison employee or representative will not be deemed to vary the terms of the warranty.
- Equipment and parts must be installed and operated according to recommended procedures and operating conditions.
- Consumable elements are not covered. Consumable elements are those that show normal wear from typical equipment usage including, without limitation, printheads, knives, rollers in contact with the web, and sonic units. Avery Dennison reserves the right to determine which elements are defined as “consumable.”
- No customer maintenance may be performed except as directed by qualified Avery Dennison personnel.
- Equipment and parts damaged by negligence or abuse are not covered.
- Avery Dennison US reserves the right in its sole discretion to incorporate any modifications or improvements in the machine system and machine specifications which it considers necessary but does not assume any obligation to make said changes in equipment previously sold.

### Equipment Purchased In US and Shipped In US

- Avery Dennison US covers warranty for equipment and parts installed and operated in the Americas (United States, Canada, Mexico, Central America, Caribbean Region, and South America excluding Brazil).
- Outside the US, the local Avery Dennison office is responsible for equipment and parts warranty. Customers must ensure coverage during machine purchase.

- Equipment purchased and exported to regions outside local Avery Dennison office coverage are not covered by warranty. The purchasing agent must acquire a service contract from the Avery Dennison office where the equipment or parts are operated to ensure machine coverage. For example, if an agent purchases a printer in the US, exports to Brazil, and then needs warranty coverage, Avery Dennison Brazil has no obligation to provide warranty coverage. The agent must purchase services from Avery Dennison Brazil.

THE WARRANTIES PROVIDED HEREIN ARE EXCLUSIVE AND ARE IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY OR PERFORMANCE, WHETHER EXPRESS OR IMPLIED. EXCEPT THE WARRANTY OF TITLE, IN NO EVENT SHALL AVERY DENNISON BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, EVEN IF AVERY DENNISON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

### **Service**

When ordering machines and supplies in the U.S.A., reference all correspondence to the address below.

EVERY DENNISON Corporation

One Wilcox Street

Sayre, PA 18840

Call: 1-800-967-2927 or (570) 888-6641

Fax: (570) 888-5230

For spare parts, requests for service or technical support, contact

EVERY DENNISON Corporation

One Wilcox Street

Sayre, PA 18840

Call: 1-800-967-2927 or (570) 888-6641

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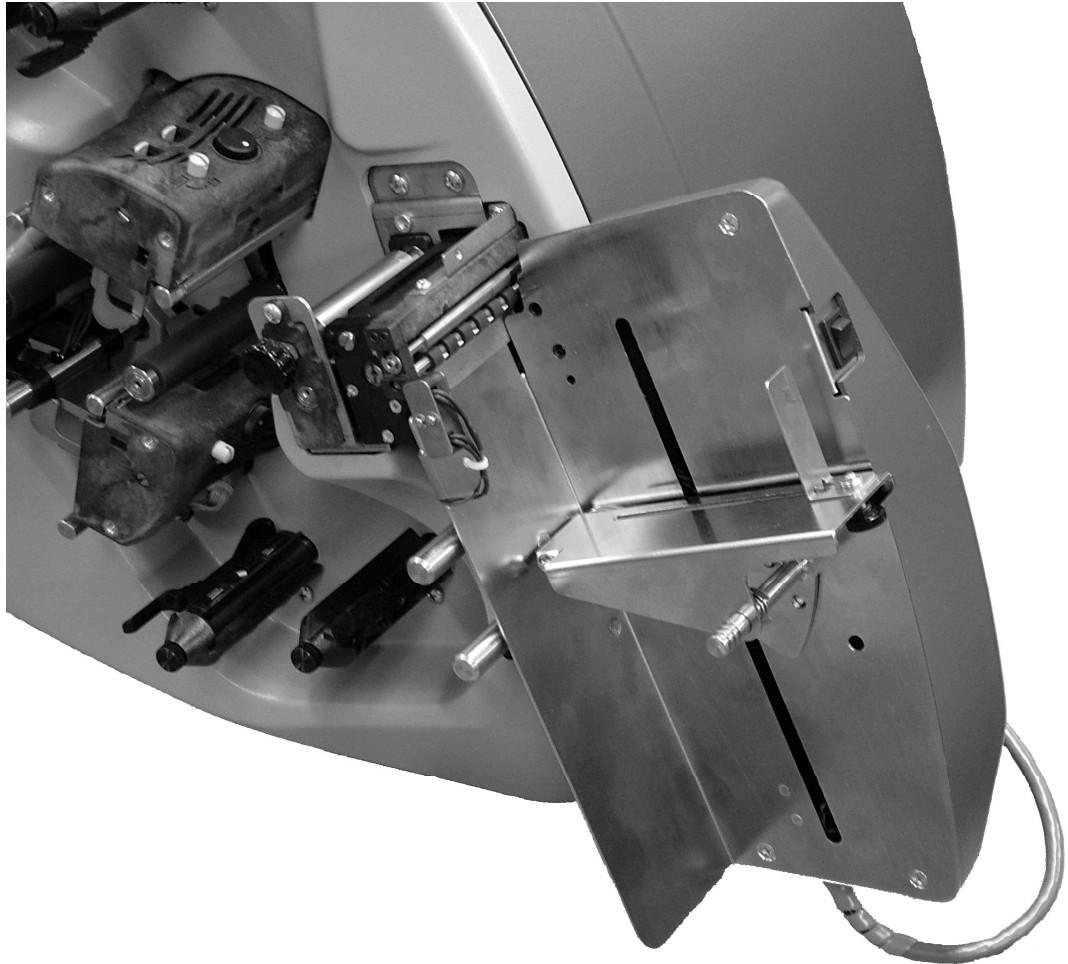
**For parts and service in other countries, please contact your local AVERY DENNISON supplier.**

# Description / Specifications

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## Stacker Description

The Down Stacker Option is a low-end stacker for coated and woven fabric labels. The stacker has several adjustments that can be made for the label size and material to be printed and cut on the AVERY DENNISON 500 Printer or the Sonic Knife when attached to a AVERY DENNISON 500 Printer. On most coated labels tested to date, the finished stack is fairly even on the edges and the length may vary dependent on stacker configuration adjustments, label material and size. The stack for woven labels will not be quite as good as the coated tapes, but removal of the labels and jogging them together on a table like a deck of cards is easily managed.



**Figure 1 - AVERY DENNISON Model 500 Label Printer w/  
Downstacker**

## Optional Stacker Specification

Label Size	Min: 1/2" (12.7mm) web x 7/8" (22.2mm) feed (standard stacker)  Max: 2 1/4" (57.2mm) web x 5" (127mm) feed (standard stacker) 5:1 web feed to width ratio (Examples - 1/2" web = max feed 2 1/2" 3/4" web = max feed 3 3/4") (optional 8" tray) - Part number 588040 Minimum = 1/2" web x 7/8" feed Maximum = 2 1/4" web x 8" feed
Label Capacity	4800TWT material = Approximately 2,000 labels for full stacker
Dimensions	12" (305mm) high x 7" (178mm) wide Including stacker x 6.0" (152mm) deep
Weight	3.6 Lbs. (1.64 Kg.) Shipping weight 6 Lbs. (2.73Kg.)
Electrical	Interface directly to the printer
Temperature	41°F (5°C) to 104°F (40°C)
Humidity	5% to 90% non-condensing

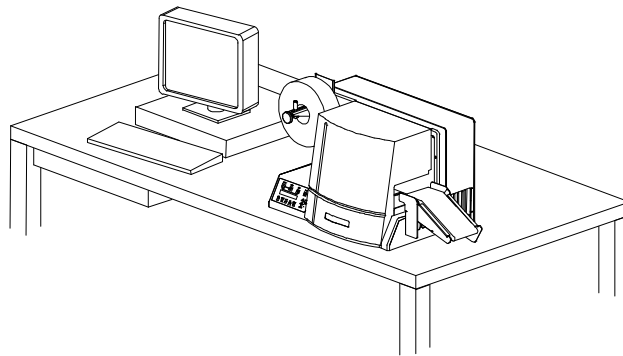


# Customer Responsibility

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## Location of Stacker

The printer w/Stacker weighs approximately 50 Lbs (23 Kg) and requires a table of sufficient quality and strength to handle this load while the system is operating. AVERY DENNISON recommends an industrial type worktable having the approximate dimensions of 72" wide to 30" deep to 32" high. Refer to Figure 2.



### Figure 2 - Recommended Workstation Layout.

The location of the AVERY DENNISON 500 Printer should be based on human factors. The Stacker should be located in an area that maintains optimum flow of your product while providing for the operator's comfort. AVERY DENNISON has taken significant steps to ensure that the operator controls and operations are easily accessible. This goal can only be met, however, if the printer is also located with human factors in mind. These include the height of the Stacker, the space around the Stacker and the accessibility to the printer.

While AVERY DENNISON has designed the system to be reasonably quiet, it is recommended to locate the printer in an area where printing and cutting repetitious noise is acceptable.

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## AC Power Line

The AVERY DENNISON printer requires that the electric service be 10 Amps @ 115VAC or 6 Amps @ 230VAC. This will allow the computer and any additional support or service equipment to be plugged into the same service.

The AVERY DENNISON 500 downstacker option connects directly to the printer. The printer controls all the functions of the downstacker option.

Any electrical service that is supplying a AVERY DENNISON printer or peripheral equipment connected to a AVERY DENNISON printer should follow standard electrical code practices including proper grounding and neutral requirements.

The AVERY DENNISON printer was designed to operate in an industrial setting for extended periods of time; however, the printer is controlled by a microprocessor that is very sensitive to brownouts or power spikes. For this reason as well as the minimum recommended current supply, AVERY DENNISON recommends that a separate “clean” service be installed or reserved for the exclusive use of the AVERY DENNISON printer and its peripherals.

# Unpacking / Installation

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## Unpacking

The AVERY DENNISON 500 stacker is shipped in a cardboard carton that may be moved by hand.

**DO NOT REMOVE THE STACKER FROM THE CARTON OR UNPACK IN THE SHIPPING / RECEIVING DEPARTMENT.**

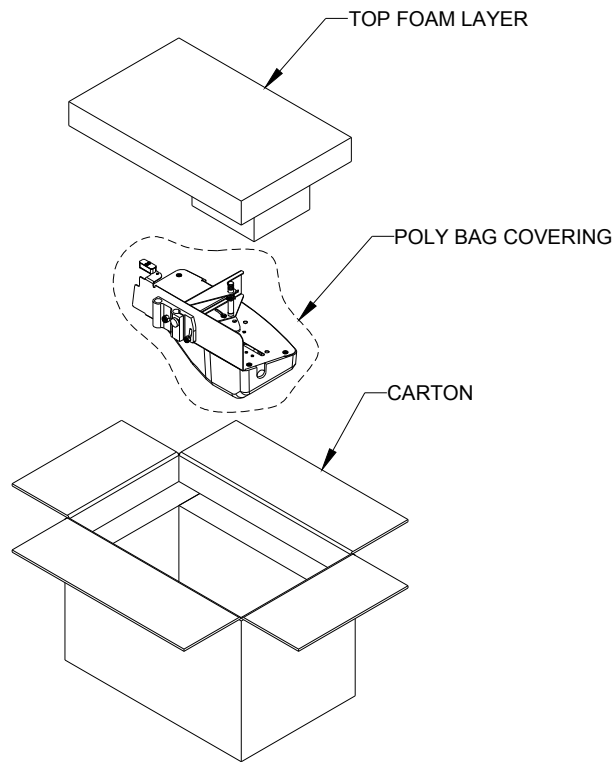
Items may be lost. Also the carton should be saved for return of the stacker if ever required. Return shipping damage in a poorly packed carton is the responsibility of the customer.

Open the carton from the top by cutting the taped seam on the top of the carton. Remove the foam packing layer. (*See Figure 3*).

Lift the stacker from the carton by the body of the stacker. Do not lift by the interface cable or stacker platform.

Remove the plastic over the stacker.

Inspect the stacker for shipping damage. If obvious damage is discovered, contact AVERY DENNISON for further instructions - in the U.S.A. at (570) 888-6641. In countries other than the U.S.A. please contact your local AVERY DENNISON supplier.



**Figure 3 Shipping Carton**

Save the shipping materials to return to the factory for service if ever required. Shipping containers are specially made to protect the printer. Machines returned that are not properly packed are the responsibility of the customer for any damage.

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## Inventory of Components

The following list shows the additional parts (pieces) that should be included in your AVERY DENNISON 500 Stacker shipping carton. If anything is missing, notify AVERY DENNISON immediately - in the U.S.A. at (570) 888-6641. In countries other than the U.S.A. please contact your local AVERY DENNISON supplier.

- |                                                           |
|-----------------------------------------------------------|
| - AVERY DENNISON 500 Optional Downstacker                 |
| - AVERY DENNISON 500 Optional Downstacker "User's Manual" |

# Down Stacker Option

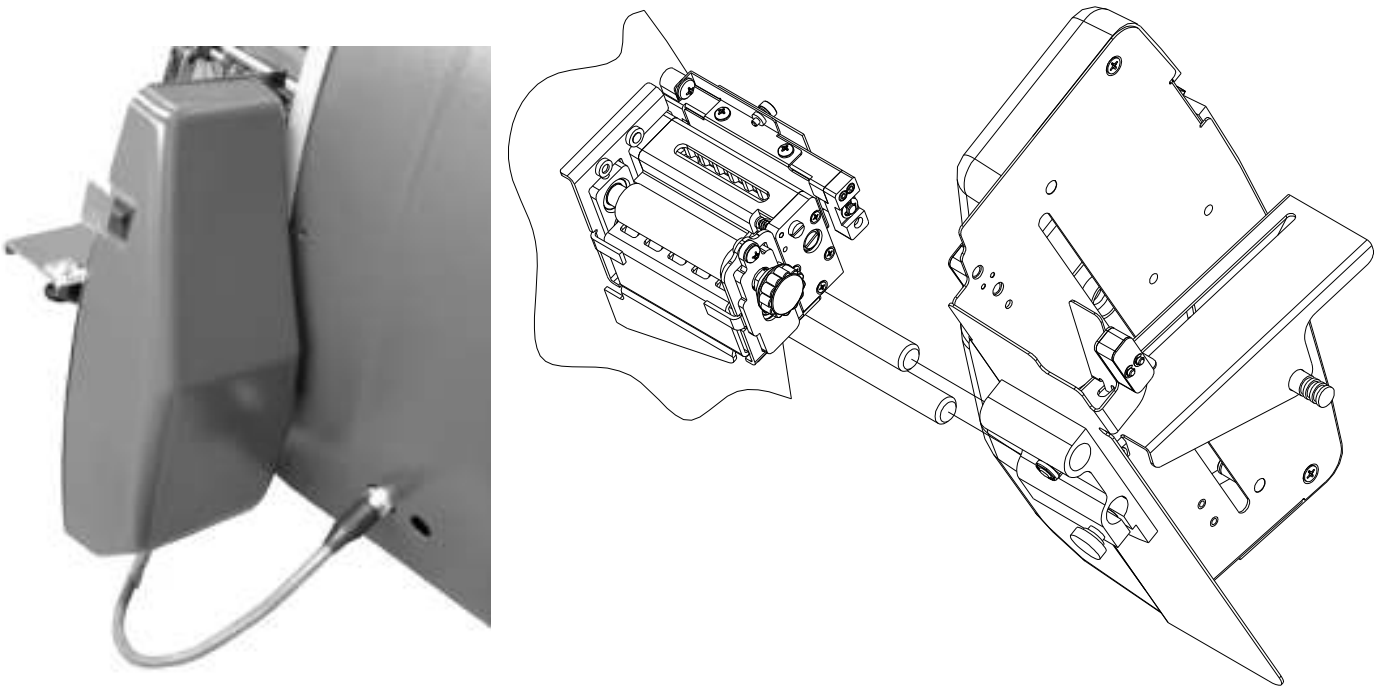
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## Installation

**Note:** Turn the power off to the printer to install or remove the stacker. While no electrical failure will occur – the software must be initialized (on power up) to automatically recognize what option has been connected to the printer.

There are two shafts on the printer located below the Auxiliary Feed and Knife assembly. Loosen the thumbscrew in the mount bracket of the stacker and begin to slide the stacker on the two shafts. The top of the stacker must slide behind the Nip Roller stripper plate. Slide the stacker in until the backside of the stacker is beyond the size web being run.

The interface cable that extends from the bottom of the stacker assembly plugs into the larger connector on the right side of the printer. There is a sleeve on the connector that will snap with the connector fully engaged with the mating connector. The two cables will only slide into each other when the connectors are properly aligned with each other. Rotating the connector and applying light pressure inward will engage the connectors. To remove the connector - slide the outer sleeve out and hold it while pulling the connector out.



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# Adjustments

There are several adjustments that improve the quality of stacking that can be made to the stacker. There are no incorrect settings, just adjustments that stack the label size and material the best.

## Toggle Switch

The toggle switch selects between two different sensors for the height of the stack. With the top portion of the toggle switch depressed the upper sensor will be used. The upper sensor works well for short feeds from 7/8" to approx 2" while the lower sensor helps long feed and is often used for woven labels.

## Stacker Angle

The entire stacker can be tipped from a vertical position as shown below to 20° out at the bottom. Coated tapes tested work well with the bottom tipped out when the feed is 2" or longer. Woven tapes work best when the stacker is vertical or almost vertical. There is no best angle for all label lengths and materials.

## Platform Adjustments

The angle of the platform can be adjusted into two different locations by pulling the spring loaded Adjustment Pin and moving the platform from a horizontal to a backwards angle approx 20° up on the outer end of the platform. Woven labels tested worked better in the lower position while coated labels worked the best with the outer end elevated. Short feeds worked best with the outer end elevated.

The label stop helps get the first few labels in the stack when it's completely empty. Place a cut label on the platform and slide it into the back corner. Move the label stop to within 1/8" to the end of the label. The label stop is spring-loaded and will slide without loosening or adjusting the mount thumbscrew.

## Static Brush

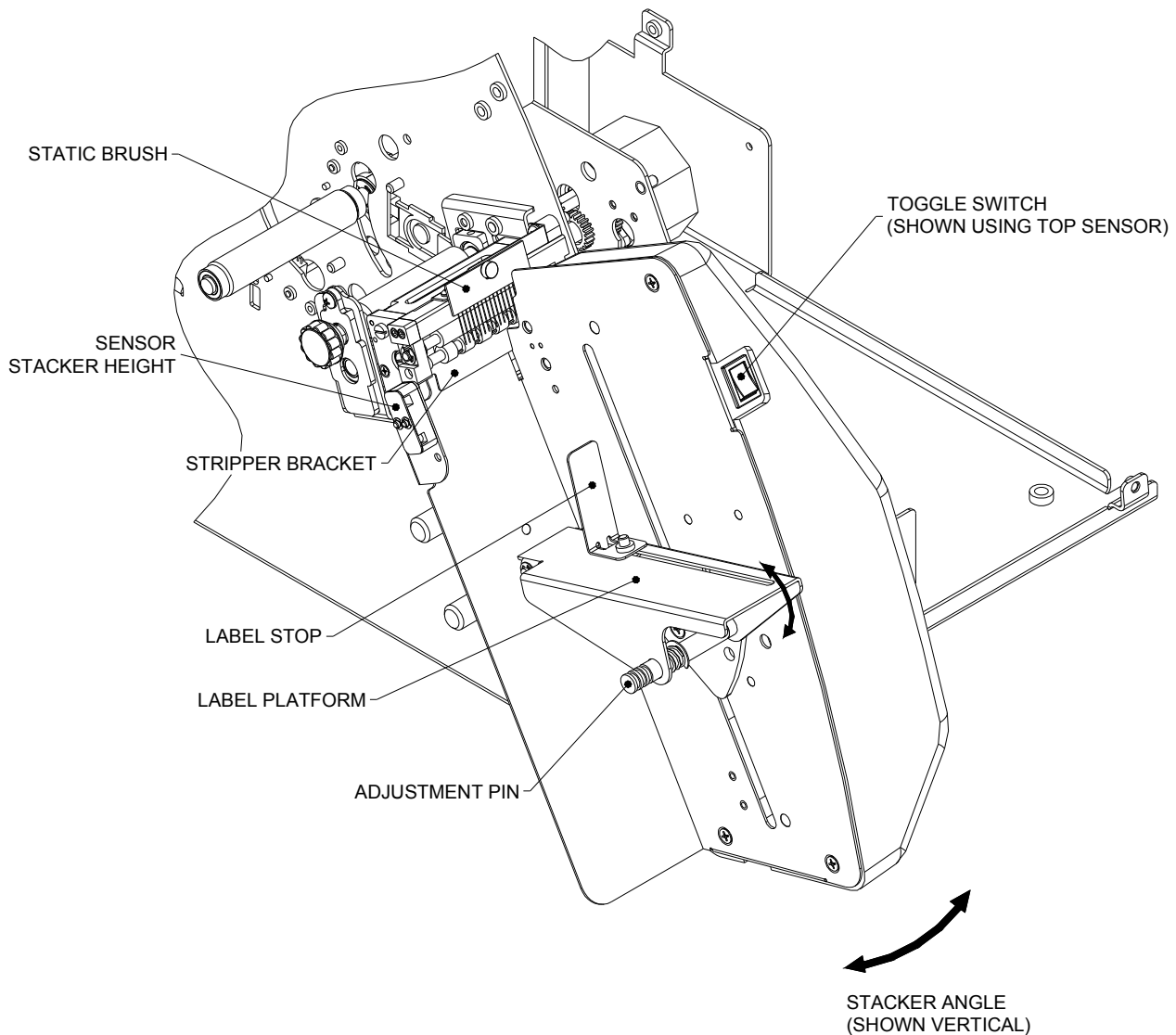
The static brush has been mounted with a thumbscrew for easy adjustment to help guide and control labels into the stacker. The brush should contact the material as it exits the nip rollers. The static brush should be maintained in good condition for the best stacking.

In general – a light pressure is sufficient to stack well, but long feeds will require slightly more pressure.

Keep the static brush parallel to the nip roller mount bracket.

# Operation

The platform is automatically adjusted to the sensor level selected by the toggle switch. If the toggle switch is set for the upper sensor when the blue Start/Stop button on the printer is pressed then the platform will rise up to a level to block the sensor and then move down slightly. The printer will then begin to produce labels and deliver them into the stacker. As the labels begin to build - the stacker platform will begin to descend. Once the stacker is full, a sensor will stop the printer and light the supply LED on the control panel. Remove all the labels from the stacker and press the Stop/Start button on the display. The platform will return to the top and begin printing and stacking labels again.



# Trouble Shooting

<b>Problem</b>	<b>Probable Cause</b>	<b>Corrective Action</b>
Stacker fails to move up or down when start button is depressed.	1) Interface cable	1) Not plugged in all the way.
		2) Just installed and needs to be power cycled for printer to identify option installed.
		3) Printer has no batches to print.
Platform can not find home upper sensor	1) Sensor unplugged	1) Remove back cover and check connections.
	2) Sensor out of alignment	2) Broken wire or damaged LED
Top of stack is blocking incoming labels	1) Incorrect sensor settings	1) Outer bracket bent and needs to be reformed.
	2) Sensor not operational	1) Change toggle switch to lower sensor
		1) Check sensor alignment
Stack of labels falling over		2) Stacker not connected
		3) Loose connection
	1) Incorrect sensor settings	1) Change toggle switch setting
	2) Static brush position	1) Move static brush up or down
Label not entering stacker	3) Platform angle	1) Move to other position
	4) Tip stacker	1) Change angle
	1) Label jam in knife	1) Clean out label and debris
	2) Nip roller not pulling	1) Worn rubber roller - Replace
	2) Loose set screw or drive gear - Tighten	
	3) Soft material / narrow web hitting static brush	1) Adjust the height of the static brush

# Installation Instructions for Stacker Option 580028

(Use with Woven Edge Fabrics less than 1 inch wide & over 4 inches long)

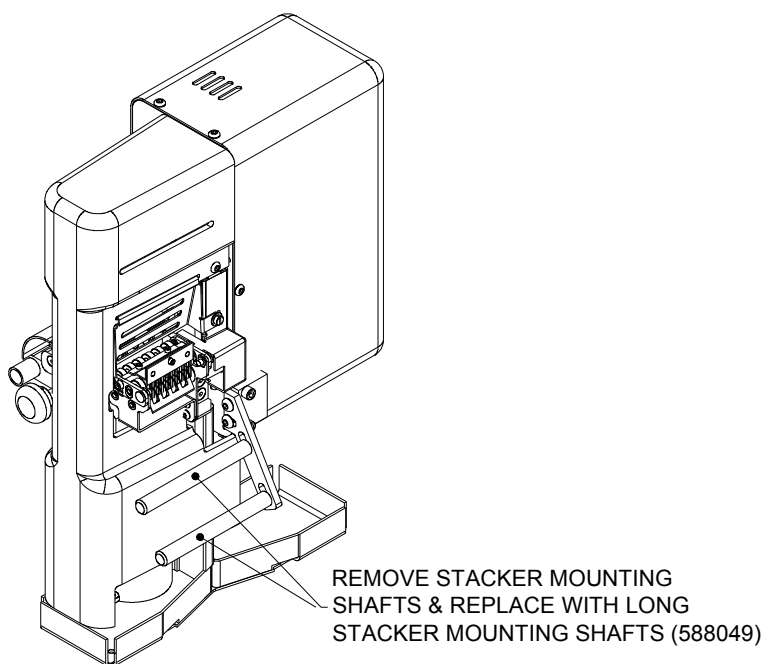
Option consists of:

Part No.	Description	Qty
588048	Web Guide	1
588049	Long Stacker Mount Shaft	2

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## Installation Procedure

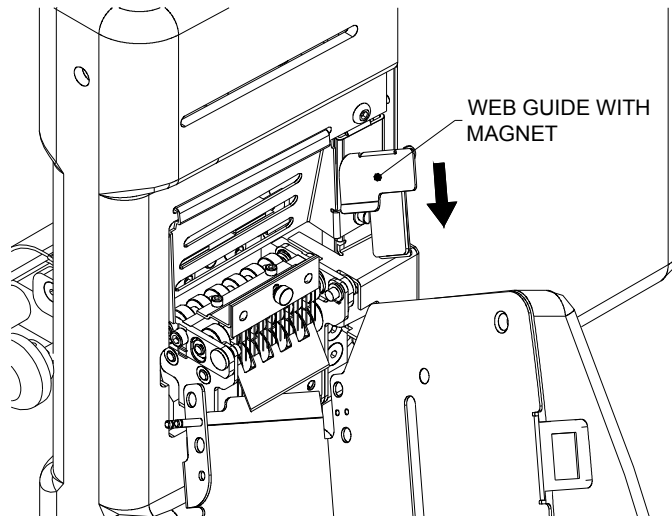
1. Remove (2) Stacker Mounting Shafts from the Sonic Knife and replace with (2) 588049 long Stacker Mount Shafts.



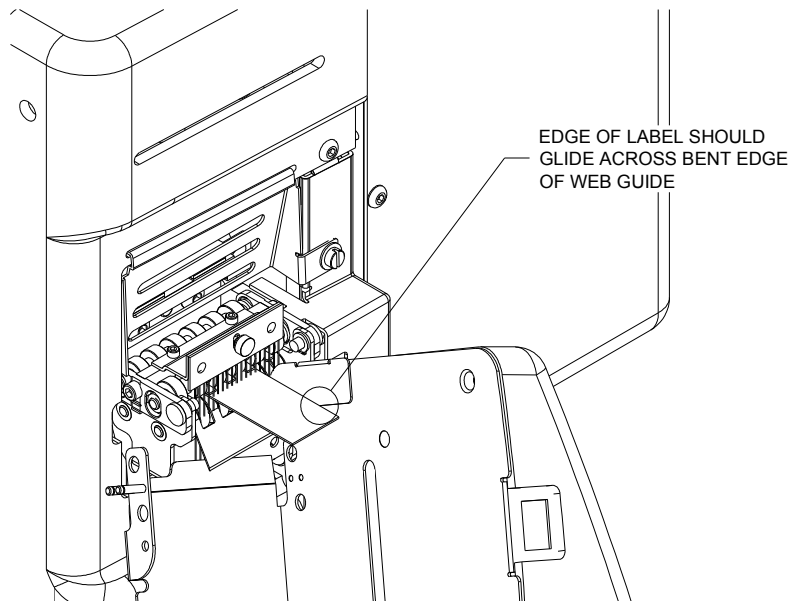
2. Adjust to allow Stacker to slide freely.
3. With Stacker installed, slide forward and tilt top back as far as possible without blocking the Platform "Drop" Sensor.



4. Install Magnet backed Web Guide in position as shown below.



5. Slide Stacker horizontally until Label exiting Nip Roller slides across edge of Web Guide as shown.

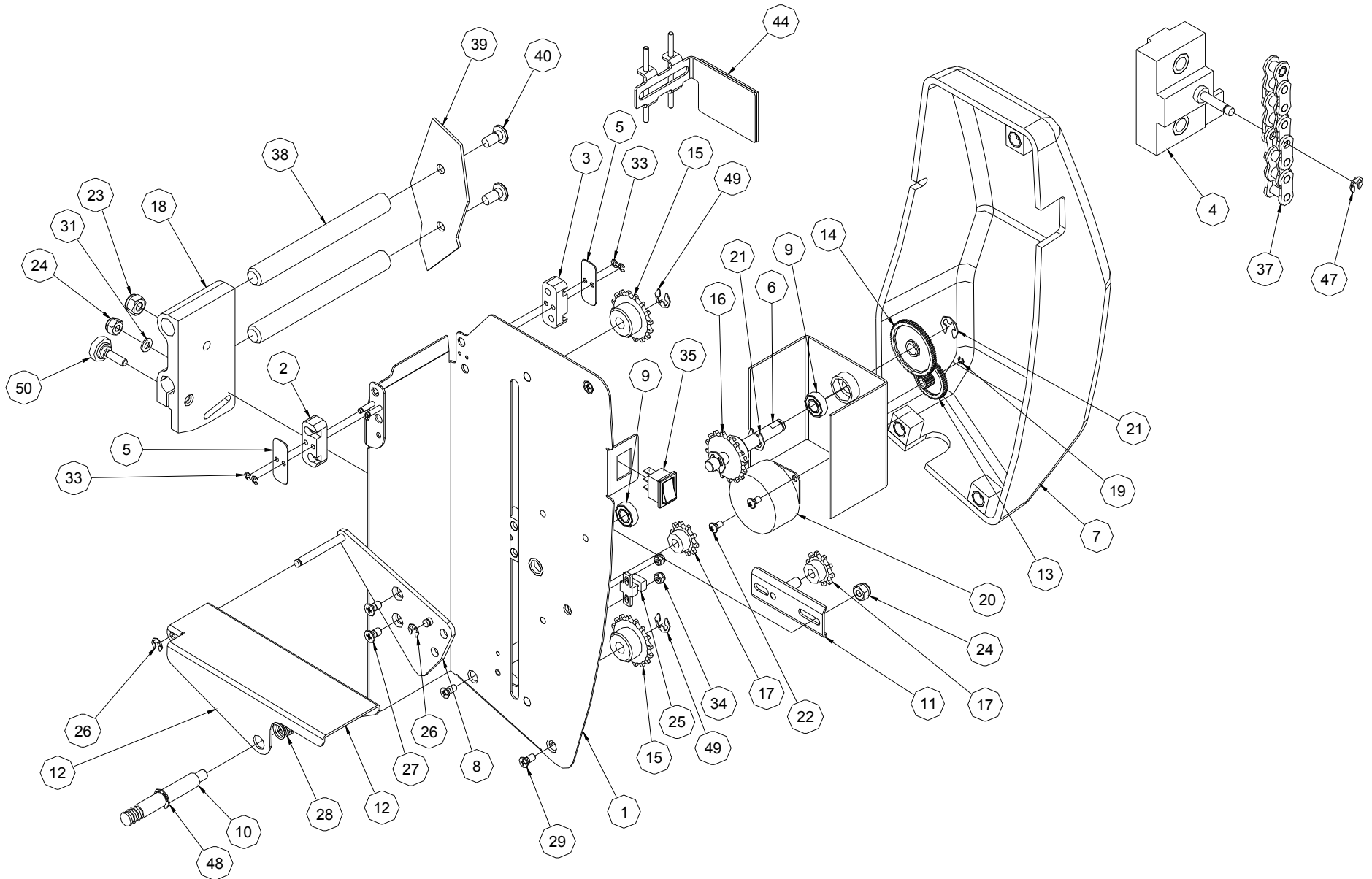


**Note:** *The single Web Guide creates a twist in the Label that gives it enough rigidity to be pushed into the Stacker.*



# Mechanical Assembly Drawings

# Stacker Assembly Drawing



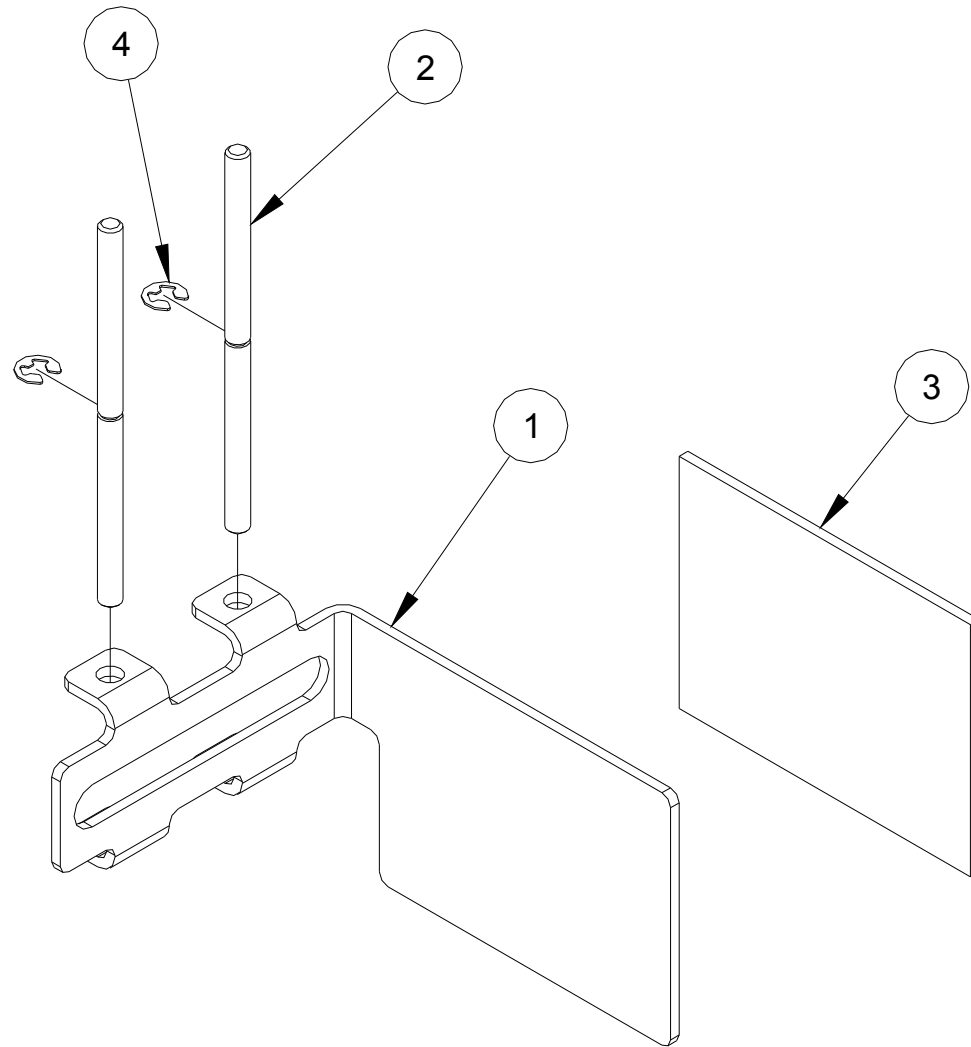
## Stacker Parts List

Item	Part #	Description	Qty
1	588015	Ass'y, Stacker base	1
2	588029	Bracket, Diode mount, Front	1
3	588028	Bracket, Diode mount, Rear	1
4	588001	Platform slide	1
5	588031	Cover, Label sensor	2
6	588005	Shaft, Capstan	1
7	588033	Cover, Stacker rear	1
8	588025	Ass'y, Platform mount	1
9	117903	Bearing, Platen	2
10	588035	Shaft, Lock	1
11	588037	Ass'y, Chain tension	1
12	588036	Ass'y, Platform label	1
13	117955	Gear, Ribbon, 54T - 15T	1
14	117954	Gear, Ribbon, 75T	1
15	991419	Sprocket, Stacker, 16T	2
16	991419A	Sprocket, Stacker, 16T Altered	1
17	991418	Sprocket, Stacker, 10T	2
18	588021	Bracket, Stacker mount	1
19	991367	Snap ring, 9/64 e-ring	1
20	588039	Ass'y, Stacker motor	1
21	990327	Snap ring, 5/16 e-ring	3
22	991372	6-32 x 1/4 Philips pan head screw	2
23	990148	1/4-20 e-s Nut	1
24	990104	10-32 e-s Nut	2
25	371130	Sensor, Roller drop harness	1

Item	Part #	Description	Qty
26	990325	Snap ring, 3/16 e-ring	2
27	991378	10-32 x 3/8 Phillips flat head screw	2
28	991439	Spring, Pin lock	1
29	991442	8-32 x 3/8 Phillips flat head screw	3
30	581155	Cable, Stacker (not shown)	1
31	990273	Washer, #10 belleville	1
32	371133	Jam sensor, Harness (not shown)	2
33	991356	Snap ring, 1/8 e-ring	4
34	989986	4-40 e-s Nut	2
35	581137	Switch, Platform positioned, Harnessed	1
37	991420	Chain, stacker drive	1
38	588023	Shaft, Stacker mount	2
39	581201	Frame, Upright (reference only)	1
40	991374	1/4-20 x 1/2 Phillips PH screw	2
41	990533	Mount base (not shown)	1
42	990513	Small wire tie (not shown)	1
43	221117	Strain releif (not shown)	1
44	588044	Assy, Label stop	1
45	588099	Carton (not shown)	1
46	588098	Manual, Stacker (not shown)	1
47	991335	Snap ring, 3/32 e-ring	1
48	990486	Snap ring, 3/8 e-ring	1
49	990326	Snap ring, 1/4 e-ring	2
50	991455	10-32 x 5/8 Thumb screw	1

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## Label Stop Assembly Drawing



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## Label Stop Parts List

Item	Part #	Description	Qty
3	588043	Magnet, Label stop	1
1	588041	Bracket, Magnetic label stop	1
2	588042	Pin, Magnetic label stop	2
4	991356	Snap ring, 1/8 E-ring	2