OMATION®

Model 2112

User Manual

Revision Tracking

Date	Chapter(s)	Notes	Rev
Mar. 2012		Initial Release	A
Jun 2015		Added Japanese specs	B

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Safety

- Read and understand all aspects of the user manual before operating this equipment.

- Keep hands, hair, loose clothing and jewelry away from moving parts.

- Lifting and or moving of this equipment requires two persons.

- Unit must be placed securely on table/surface that is properly rated for accumulated load weight.

- Use of this equipment is limited to its intended function, that of opening mail.

- Do not place fingers in the feed or cutter areas while running the machine.

- Do not operate this equipment with the cover doors removed.

- Do not set liquids on the Model 2112 which could spill into the machine.

- Before cleaning, make sure all power is disconnected.

- Do not use high pressure "canned air" that is marked flammable to clean paper scraps and dust from the machine.

- Turn off the machine during periods of non-use.

Overview

The Omation Model 2112 is a high-speed envelope opener that can open and keep count of 400 six-inch envelopes per minute (processing speed depends on the length and thickness of mail). Some other features include:

- Advanced self-adjusting feeder for efficient mixed mail opening

- Mill cutter can remove as little as 0.010" of a chip

- Enhanced chip management/chip capacity

- Two position depth of cut, or no cut (for counting mail only)

- Large variety of mail types

Cut/No Cut Function

The Omation 2112 is capable of counting individual pieces of mail with or without cutting open the envelope. This function can be selected by turning the Cut/No Cut Knob to the desired selection position.

Counter Function

This displays the count for individual pieces of mail processed in either the "No Cut" or "Cut" mode. Even if power is lost to the machine or the machine is turned OFF, the Omation 2112 will maintain the count total. Once the Counter is reset, the previous count is lost. The condition of the mail and the cleanliness of the machine can effect the accuracy of the count.
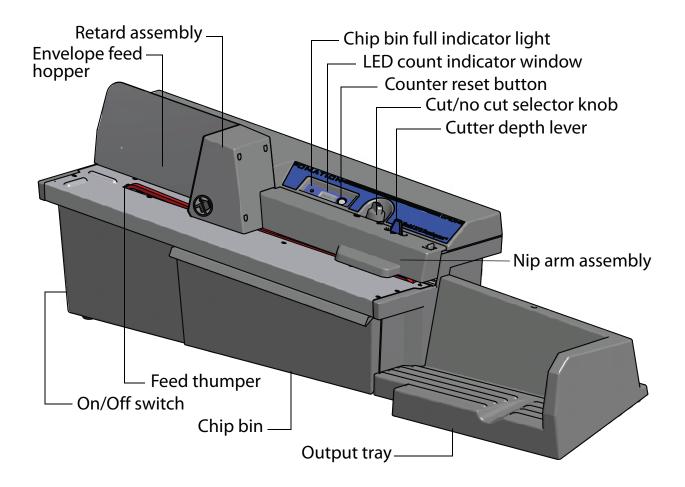
Introduction

Retard assembly

Envelope feed hopper

Chip bin full indicator light

LED count indicator window

Counter reset button

Cut/no cut selector knob

Cutter depth lever

Nip arm assembly

Feed thumper

On/Off switch

Chip bin

Output tray

Figure 1: Omation 2112 main components

Operation

Refer to Figure 1 for component locations.

1 Connect the power cord to the Omation 2112 and into an AC supplied outlet.

Note: When you first connect the power cable, the Chip Bin Full Indicator Light will flash. This is because the machine cannot determine if the chip bin is full and needs to be emptied. Open the bin and empty the chips (if any). Removal and replacement of the chip bin resets the indicator. An internal counter (not the one on the display) will count up to 3500 envelopes before flashing again to inform you to empty the chip bin.

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2 Select either the "No Cut" (clockwise) or "Cut" (counterclockwise) position on the Cut/No Cut Selector Knob.

3 Set the cut depth lever to the left (deep cut) or right (shallow cut). The factory cut depth default settings are .020" (deep) or .012" (shallow). However, the cut depth can be adjusted, as described in "Cutter Adjustment" on page 9.

4 Press the Counter Reset button to reset the counter (if desired).

5 Load a handful of mail (approximately 50 pieces) onto the Envelope Feed Hopper. Be sure to justify the side of the mail to be cut against the back of the Feed Hopper. The Feed Thumper (a rotating cam) helps to jog the mail for improved feeding.

6 Turn the On/Off Power Switch to the On position to start the machine.

7 The mail is singulated (separated one at a time) by the retard assembly.

8 The nip arm assembly guides the individual envelopes past the cutter and to the output tray.

9 Once the Envelope Feed Hopper is empty, empty the output tray.

10 To continue processing, repeat the above steps.

Nip Arm Removal/Installation

The Nip Arm should be removed for clearing paper jams and cleaning the machine.

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Press nip arm latch

Lift up and remove

Figure 2: Nip Arm removal

To remove the Nip Arm, turn the machine OFF. Press the nip arm latch to the left (see Figure 2), grasp the right end of the Nip Arm, pulling upward and remove. Reverse this procedure to re-install the Nip Arm. The Omation 2112 will not operate until the Nip Arm is properly installed.

Also, the nip arm assembly must be removed if you want to increase/decrease the cut depth from the factory setting. Setting the cut depth is described on page 9.

Cutter Adjustment

The cutter on the Model 2112 can be adjusted to accommodate different mail types, allowing for a deeper or shallower cut than what the cutter adjust lever provides.

To adjust the cutter depth

1   Remove the nip assembly (see "Nip Arm Removal/Installation" on page 7).
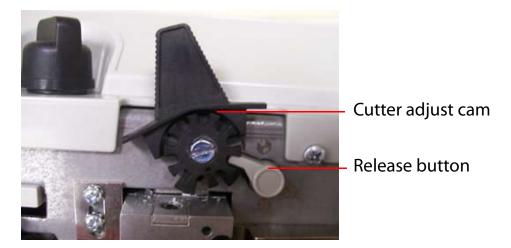
Cutter adjust cam

Release button

Figure 3: Cutter adjustment detail

2   Reference Figure 3 and make adjustments as described below:

-   For a deeper cut - push the release button and with a Phillips head screw-driver, turn the cutter adjust cam clockwise one notch to increase the cut by 0.002".

-   For a shallower cut - push the release button and with a Phillips head screwdriver, turn the cutter adjust cam counterclockwise one notch to decrease the cut by 0.002".

3   Replace the nip assembly.

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Output tray position

You can adjust the position of the output tray, if needed, for processing larger envelopes. The output tray can be in one of three positions: against the machine, one inch away, or two inches away.
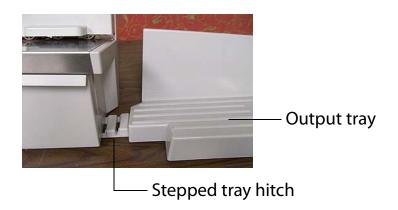

— Output tray

— Stepped tray hitch

Figure 4: Output tray extended

Simply lift the output tray up, move it to the desired position, and press it down onto the stepped tray hitch (see Figure 4).

Routine maintenance

It is important that you keep your machine clean and in good working order. This will prolong the overall life of the machine and result in longer periods of "up" time. Therefore, you should perform the following tasks at least once per day:

Clean the Model 2112

1 Unplug the power cord.

2 Remove the nip arm assembly.

3 Remove and empty the chip bin.

4 Vacuum loose paper chips and debris from the machine.

5 Use a cloth moistened with liquid cleaner to wipe down the exterior of the machine.

   - Use denatured alcohol on areas with stains, if necessary.

   - Any non-flammable commercially available cleaning solution may be used to clean the machine. When cleaning the Opex Omation Model 2112, DO NOT USE aerosol cleaners or compressed air because of the flammable nature of many of these products. There is a risk of equipment malfunction and/or injury associated with the use of aerosol cleaners on OPEX equipment prior to the operation of equipment.

   - When cleaning glass and plastic surfaces, use detergent-based cleaners such as Fantastic™ or Formula 409™. Detergent-based cleaners are recommended, because they do not cause component degradation.

   Caution: A cloth soaked with cleaning detergent or similar material should never be used to clean an object such as a belt or roller when the belt or roller is being driven by the system. Use of a cloth or similar material on moving mechanisms can result in personal injury. If a belt, pulley or similar part needs to be cleaned, it should be cleaned while stationary.

   - Wipe dust and debris from the sensors. Debris build-up can cause jams. Accumulations of dirt and debris can cover sensors, preventing them from working effectively. This will hinder machine performance.

6 Re-install the chip bin and nip arm assembly.

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Optional assemblies

The following assemblies can be ordered as replacement parts for the Omation Model 2112.
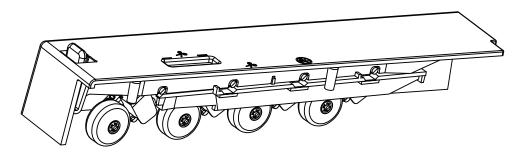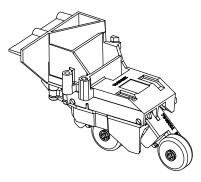

Figure 5: Service Nip Arm Assembly (9130755)

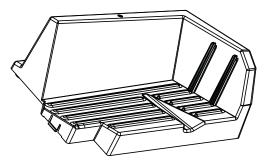**Figure 6: Retard Plastic Sub Assembly (9130855)**
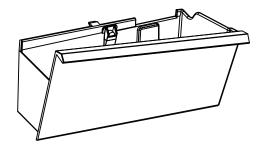

Figure 7: Output Tray Assembly (9131300)

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Figure 8: Chip Bin Assembly (9131400)

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Specifications

Physical Specifications	
Length	40.5" – 42.5" (1028.7 mm –1079.5 mm)
Depth	16.5" (419.1 mm) or with power cord 18" (457.2 mm)
Height	14.5" (368.3 mm)
Weight (base model)	47 lbs (21.32 kg)
Speed	Up to 400 envelopes / minute (6" envelope)
Envelope Sizes & Types	All sizes and types (including overnight envelopes)
Thickness	Up to 0.188" (4.8 mm)
Depth of cut	From 0.01" – 0.07" (.25 mm –1.79 mm)
Power	US: 110-120 VAC, 60HZ, 5A EURO: 220-240 VAC, 50HZ, 3A JAPAN: 100 VAC, 50/60HZ, 3A
BTU Rating	US: 1964 BTU/h (max @ 115v/5A) EURO: 2357 BTU/h (max @ 230v/3A) JAPAN: 1024 BTU/h (max @ 100v/3A)

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