MAGNER

OPERATION MANUAL
BANKNOTE COUNTER

VC525 MINI AIR / VC525C MINI AIR

Thank You

for selecting our product.

Please read this manual thoroughly to derive maximum benefit and efficacy from machine.

Category

Chapter 1：Knowing it, be cautious and start-up

Chapter 2：Operation, Counting steps

Chapter 3：Diagnostics Functions

1

Knowing it,
be cautious and start-up

Chapter 1 Introduction

Before Using

Please connect the correct AC mains (220V,50Hz / 110V,60Hz) marked on the metal name plate in the back of machine.

To prevent electric shock, do not expose this machine to the rain or moisture.

To prevent any danger, turn off the power and disconnect from the mains before moving this machine.

Please contact your local dealer referring services to qualified personnel if you need any overhaul.

Do not leave anything at the rotor to avoid damages.

For local sea level differences, please use the diagnostics function 1 (C001) to check the vacuum pressure between 600~620.

C007(P.44) Cooling fan helps cooling the machine continually, the factory setting for the preprogrammed extended operation time of fan is " 0 " minute.

Place machine in a ventilated place, keep rear side of machine away from the wall at least 10cm, there are vents on the bottom, keep air flowing.
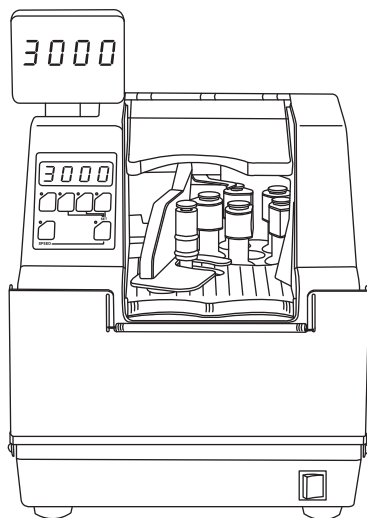
In case you need to dismantle the main cover for inspection. Please disconnect the cable of the lamp, so operator's eyes and skin will not expose under light of the ultraviolet germicidal lamp.

Accessory

This package includes：Operation manual、AC power cord.

Banknote counter

OPERATION MANUAL
BANKNOTE COUNTER

AC power cord

Operation manual

External Introduction

WHIRL DISPLAY

DISPLAY

CONTROL PANEL

COMBING SPRING

NOTE PLATE

POWER SWITCH

CLAMPER

DUST-GUIDE LID

SUCTION SPINDLE

TRIGGER BUTTON

MAIN COVER

MIDDLE CASE

BASE CABINET
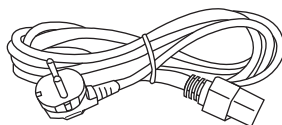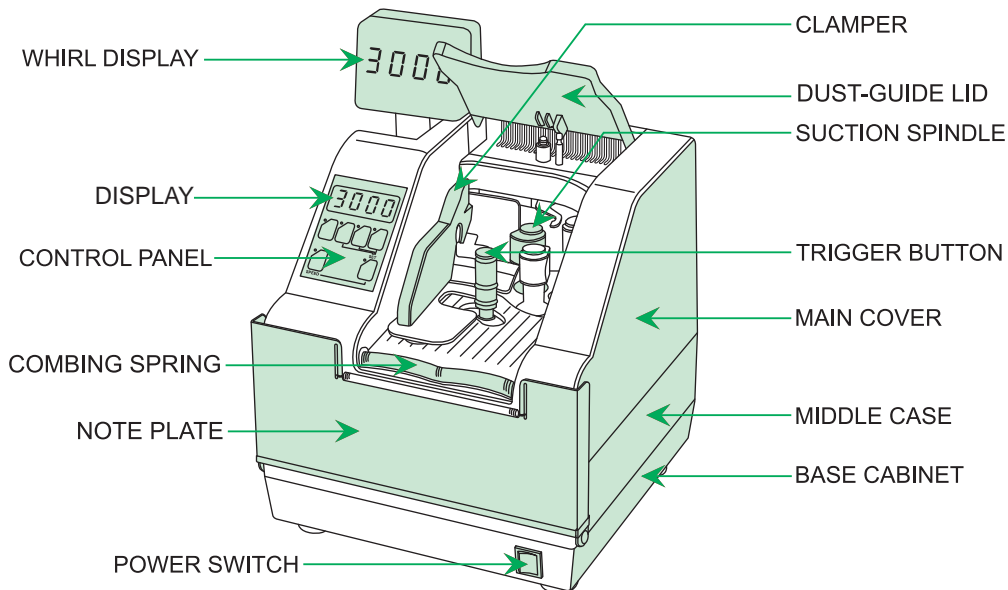
Control Panel Introduction

AUTO/MANUAL (P.14)

ADD Mode (P.24)

COUNT Mode (P.20)

CHECK/ALARM (P.17)

BATCH Mode (P.30)

RESET (P.21)

AUTO   ADD   COUNT   CHECK

SET

0
RESET   BATCH

SPEED

Note Preparation

①
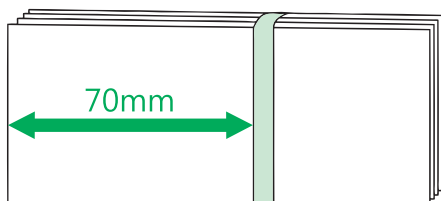
70mm

Square up and position the binding at least 70mm away from the front edge of banknotes.
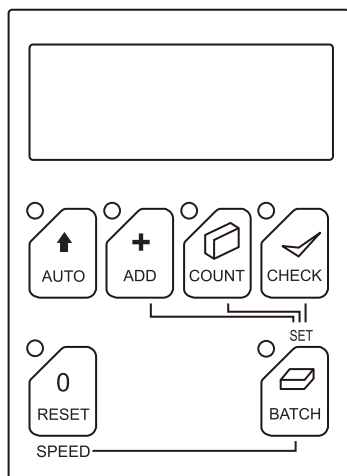
②
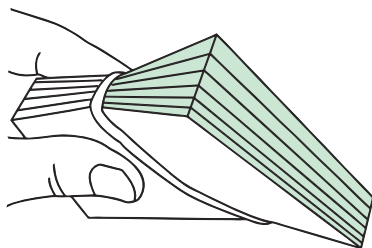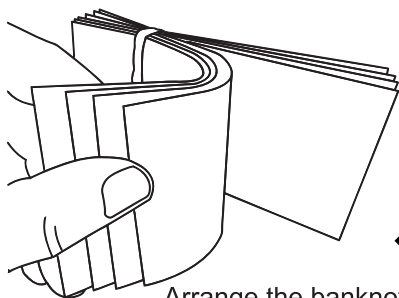
Arrange the banknotes; make sure the front edge of notes is in the right angle as possible as can be.

③
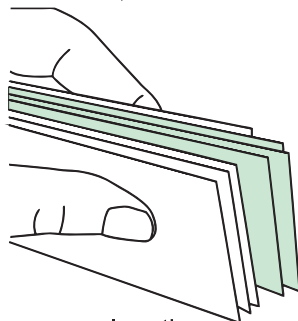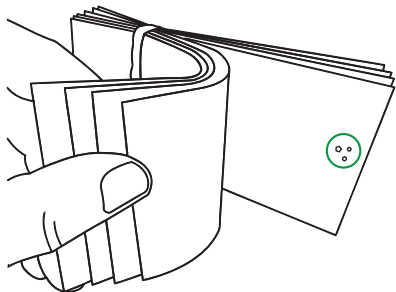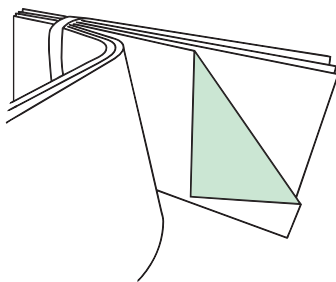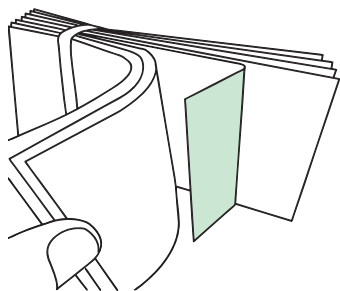
Banknotes with folding, broken or uneven length will cause incorrect counting results.

Power Switch

1 ON

Power on.

2

The clamper and the dust-guide lid will open automatically.

3 OFF

Power off.

4

The clamper and the dust-guide lid will close automatically.

Adjust The Height of Dust-guide Lid

①

②
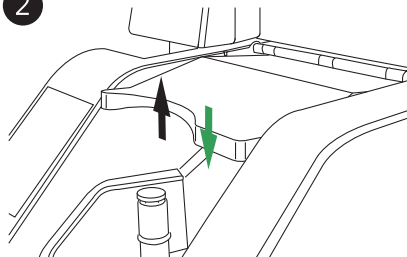
Adjust the angle of dust-guide lid by rotating the component (as shown in fig.1), in order to cope with the banknotes of different heights (as shown in fig.2) .
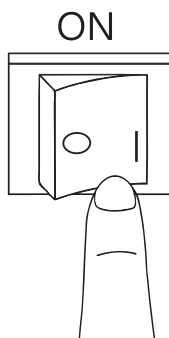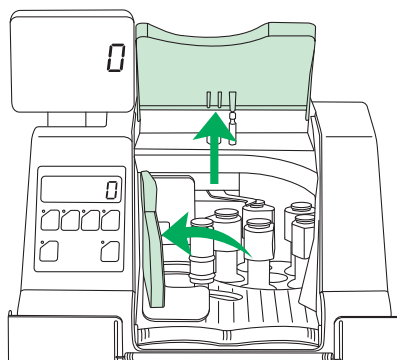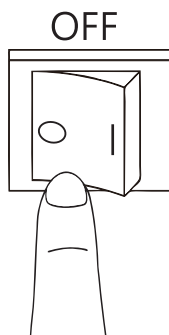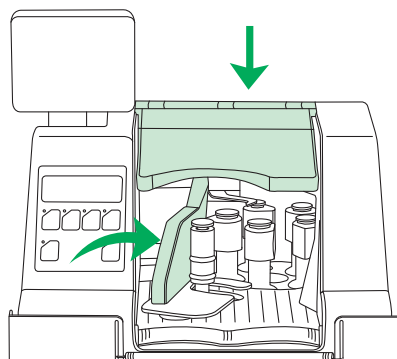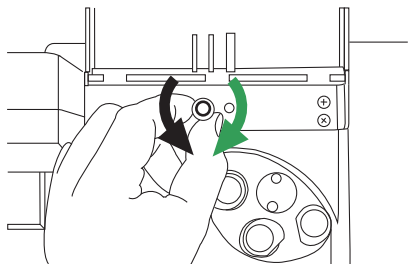The dust-guide lid will rise by rotating the component in anticlockwise direction.
The dust-guide lid will go down by rotating the component in clockwise direction.
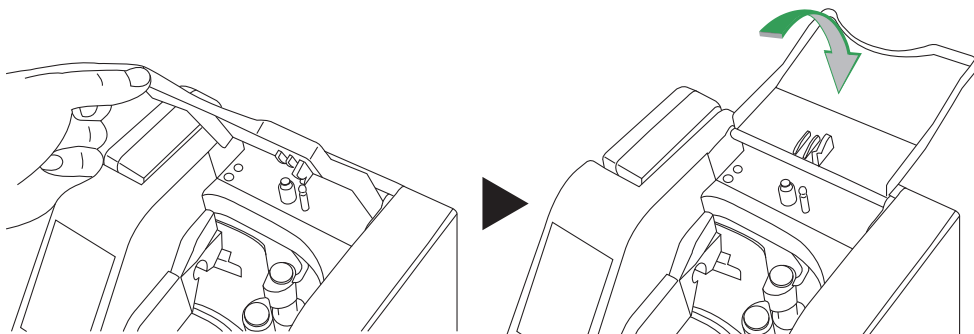
During operating, the dust-guide lid can be flipped backwards to stop its action.

Dust-guide lid is designed to guide the dust air backwards to where the anti-bacteria filter is located, so the operator will not breath in the harmful materials spreading from the counting banknotes.

Usage of Combing Spring

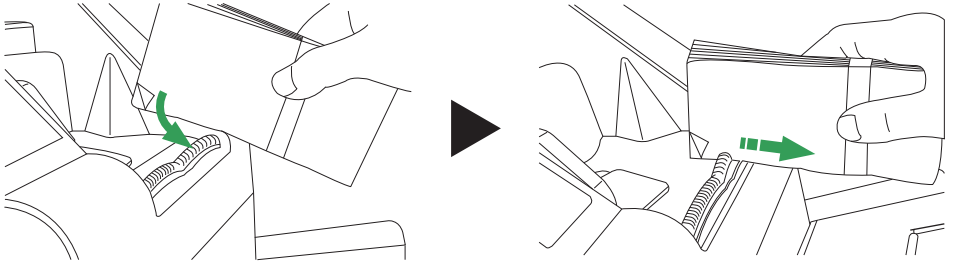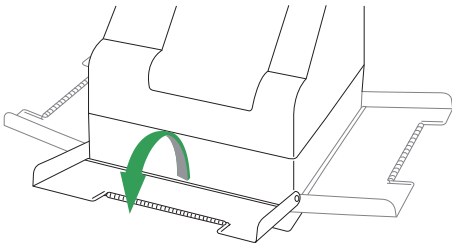Operators can use combing spring to arrange the folded banknotes. The gaps between springs are wider on the right side, and narrower on the left side. Operators can use both sides in alternative, depending on their needs.
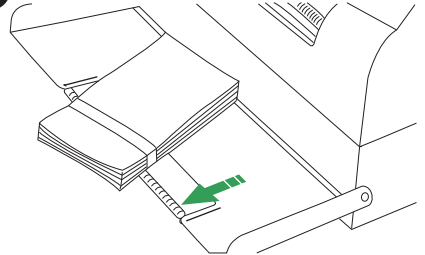
Note Plate Operation

①   ②

Pull out the spring after opening the note plate. Operators can put banknotes on the plate. Also, the note plate can be assembled in front of the machine, or on the right side and left side of the machine, depending on the surroundings (as shown in fig.1)

2

Operation,
Counting steps

Chapter 2 **Operation**

Switch Counting Speed
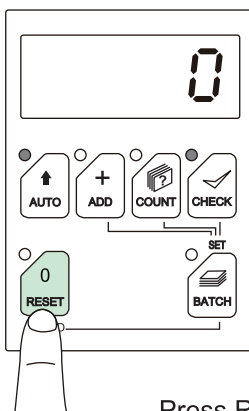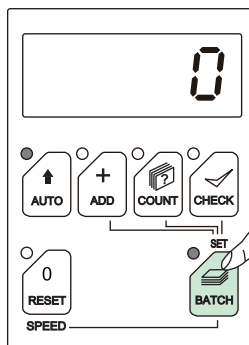
Press RESET key and then press BATCH key.

Press RESET key while pressing BATCH key to select and switch the speed.

AUTO ON AUTO Function

⚠️ Counted notes are in normal condition.

1

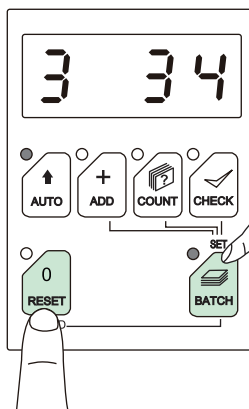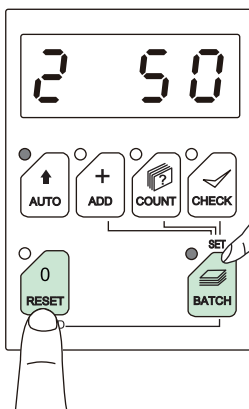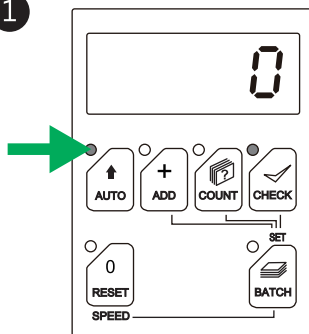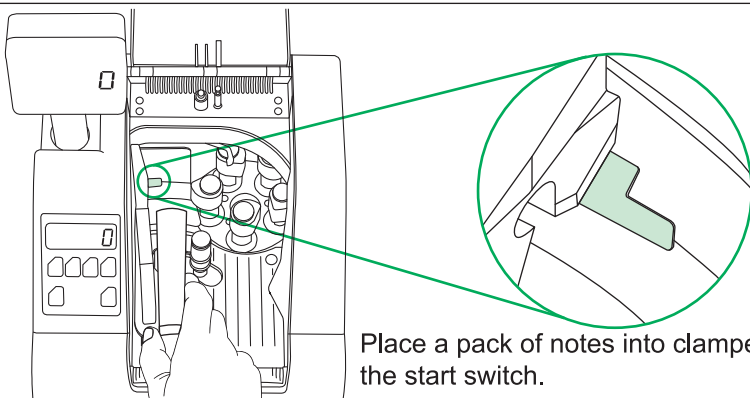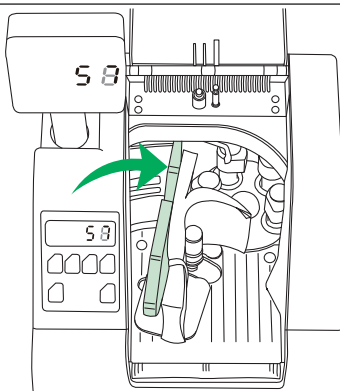To select AUTO function by pressing AUTO key, indicator lamp of AUTO key lights up which means AUTO function has been selected.

2

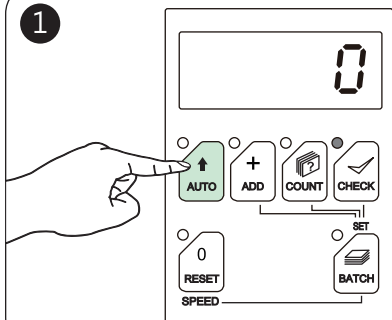Place a pack of notes into clamper until notes touch the start switch.

3

Machine will automatically start counting.

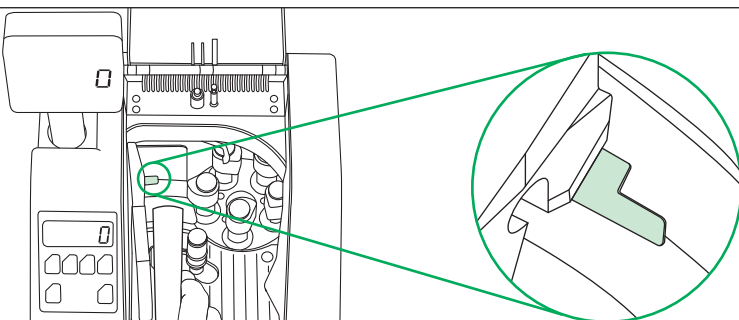# MANUAL Function

⚠ Recommended timing for MANUAL function：
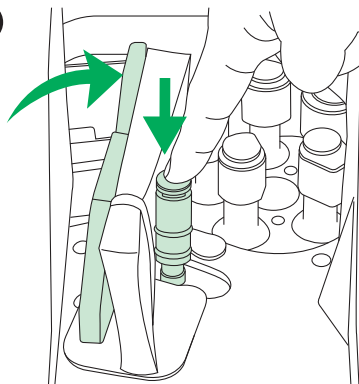Counted notes are in poor condition, small coupons or loose notes.

1

Press AUTO key, the indicator lamp of AUTO key is off, which means MANUAL function has been selected.

2

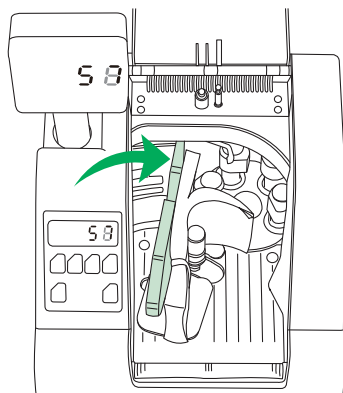Place a pack of notes into the clamper until notes touch the start switch.

3

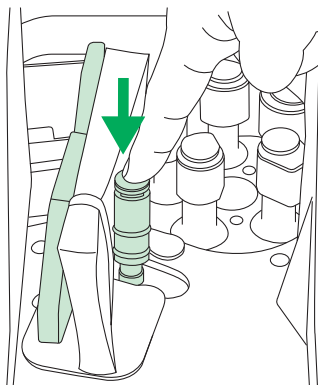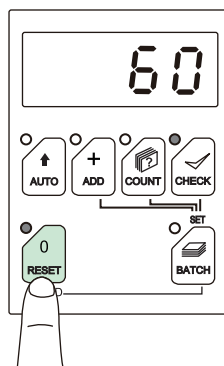The clamper will close automatically, then press TRIGGER BUTTON.

▶ 4

④

Machine will start counting.

⑤

OR

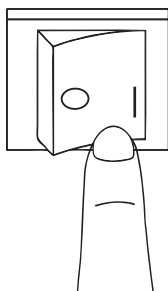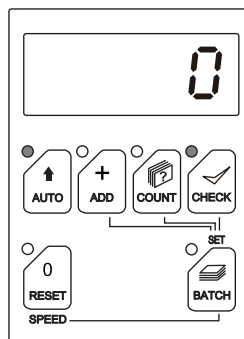Press TRIGGER BUTTON or RESET key to open clamper.
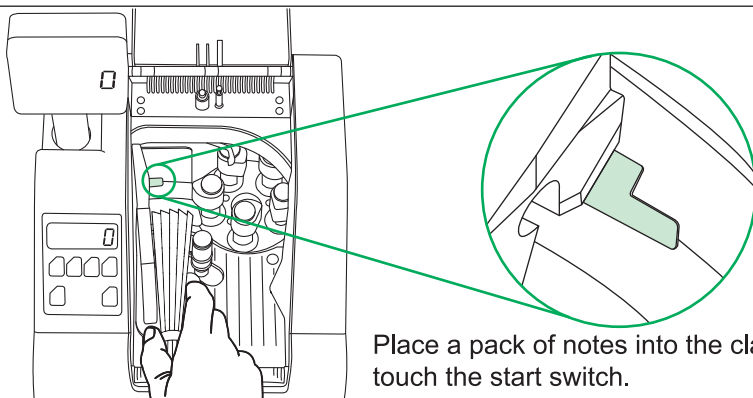
CHECK Mode
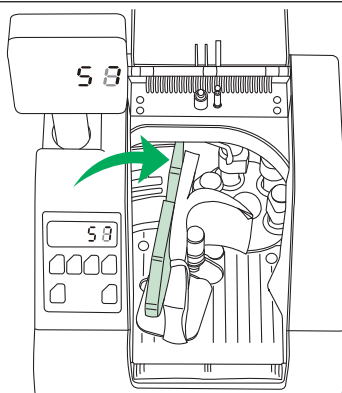
1

ON

Turn power ON.

2

Indicator lamps of CHECK and AUTO keys will light up, display will show 0.
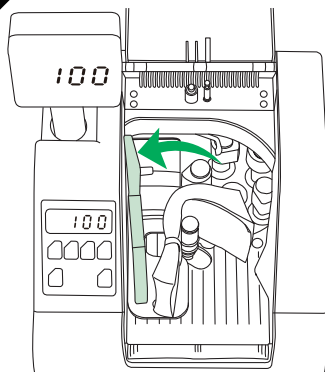
3

Place a pack of notes into the clamper until notes touch the start switch.

4

Machine will automatically start counting.
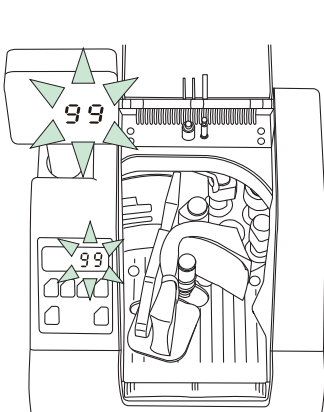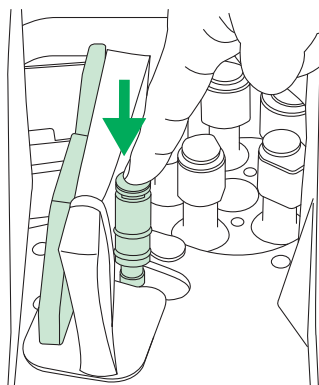
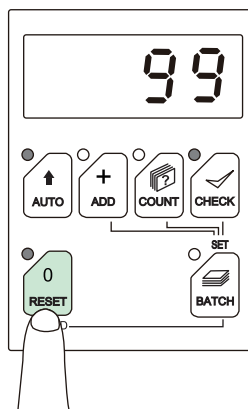If counting result is correct, clamper will open automatically.

⚠️

Factory setting for CHECK Mode is 100 notes (C.100).

If counting result is more or less than preprogrammed check quantity, clamper will remain closed, display and indicator lamp of RESET key will blink, and audible alarm will sound to warn the operator.
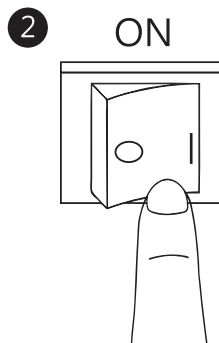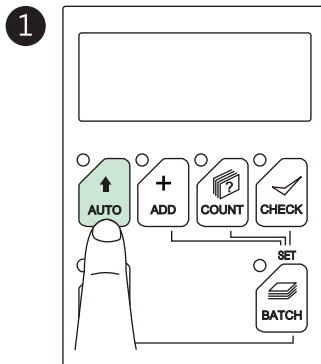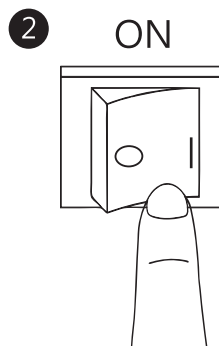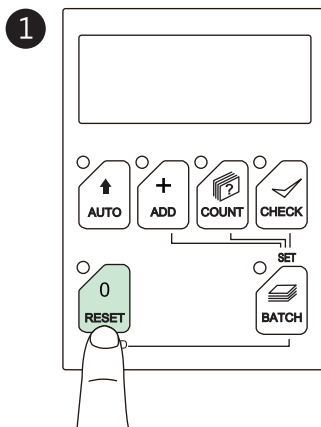
OR

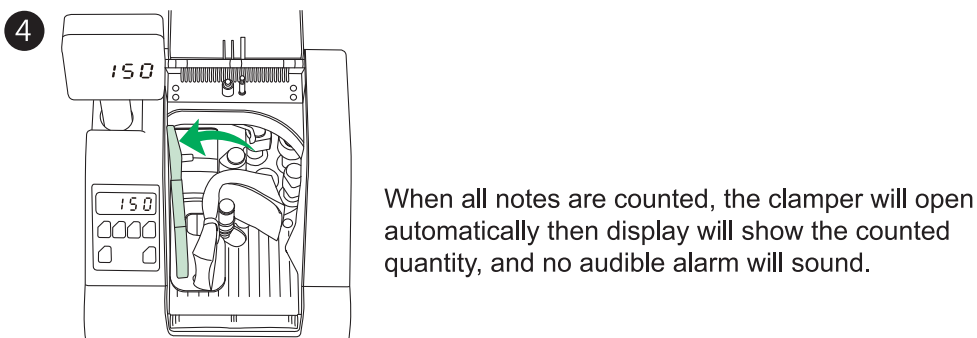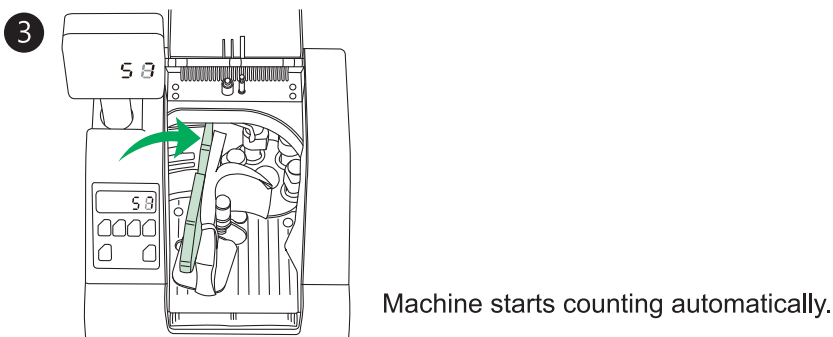Press TRIGGER BUTTON or RESET key to open clamper.

An audible alarm will sound for an error counting result and / or at the end of a counting operation under MANUAL function.

(Factory setting for alarm-bell is audible.)

❶ ❷ ON

To enable audible alarm, keep AUTO key pressed while turning power ON.

❶ ❷ ON

To disable audible alarm, keep RESET key pressed while turning power ON.

COUNT Mode

1

Press COUNT key to start COUNT Mode.

2

Place a pack of notes into the clamper until the notes touch the start switch.

3

Machine starts counting automatically.

4

When all notes are counted, the clamper will open automatically then display will show the counted quantity, and no audible alarm will sound.
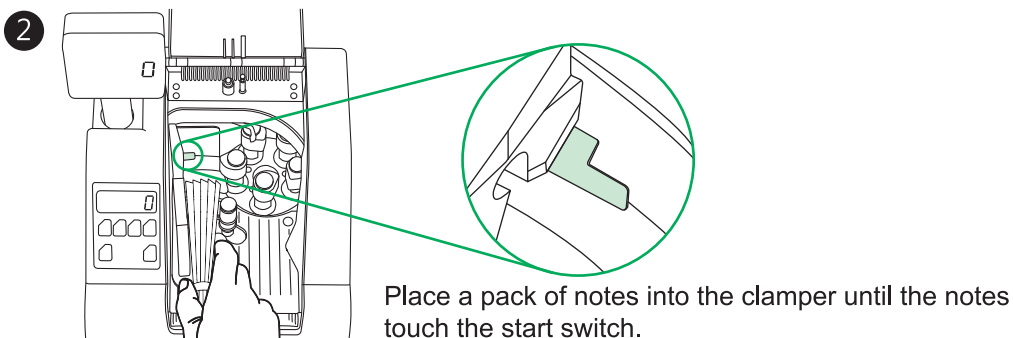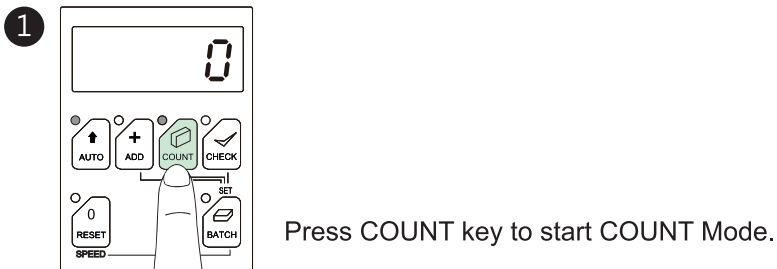
0 RESET Emergency Stop Function
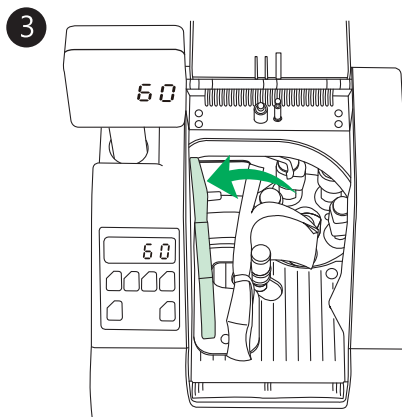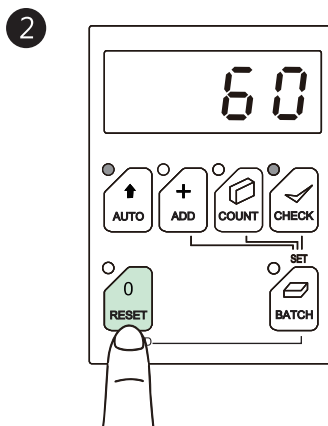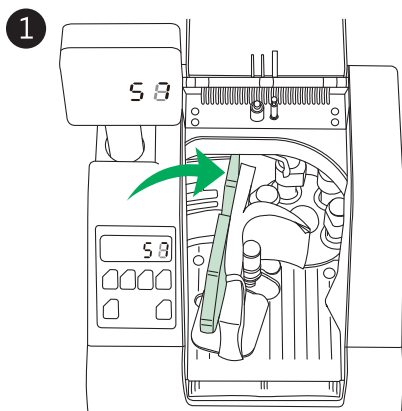
Press RESET key during counting operation will force the counting operation to cease; the clamper will open and machine will stop counting.

🔒 Keyboard Lock

1

2 ON
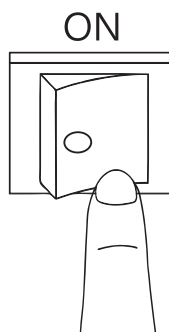
Keep COUNT key pressed while turning power ON.

3

AUTO

4
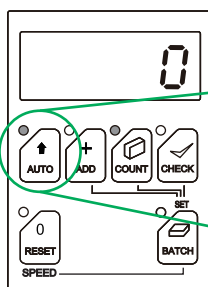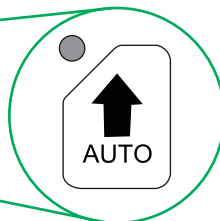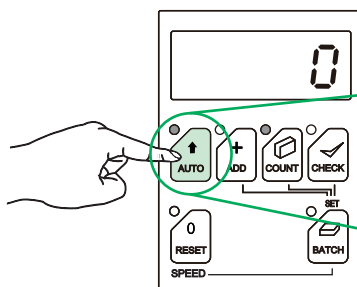
AUTO

Keyboard is locked except for COUNT Mode.
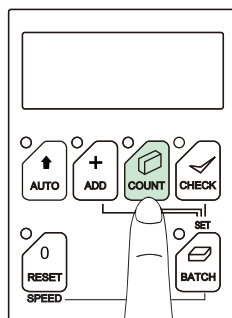
Release Keyboard Lock

1

OFF

Turn power OFF.

2
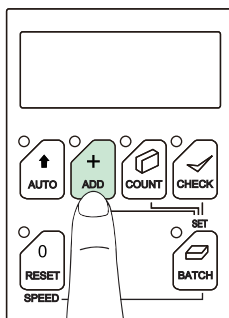
3

ON
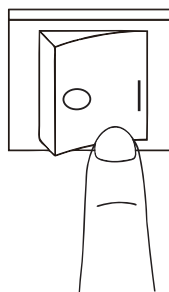
Keep ADD key pressed while turning power ON.

4

AUTO

5
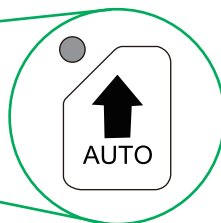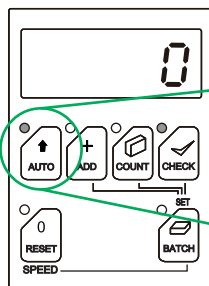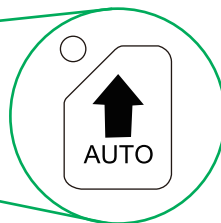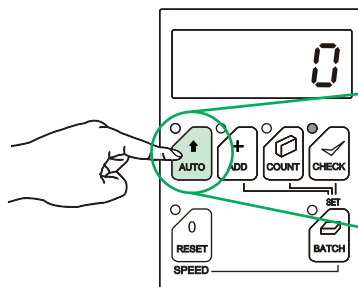
AUTO

The indicator lamp of AUTO key lights up, keyboard is released.

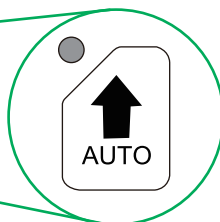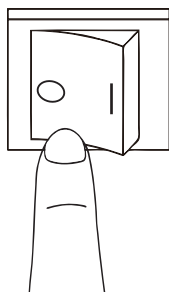# ![ADD] ADD Mode (Auto)

⚠️ ADD Mode is recommended for counting standard strap.
(1 strap contains 100 notes)
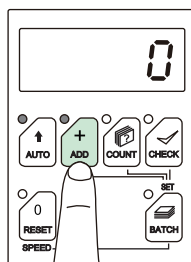
1 Press ADD key to start ADD Mode, the indicator lamp of ADD key will light up.

2 Place a standard strap into clamper until the notes touch the start switch.
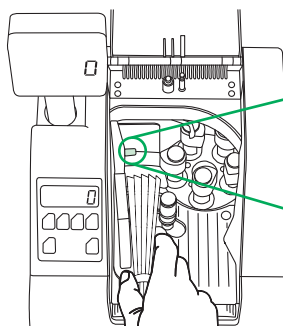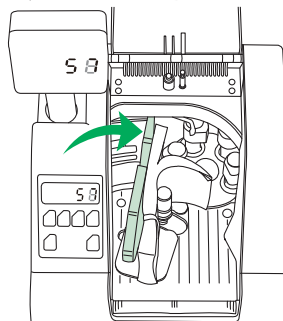
3 The clamper will close automatically, and machine starts counting.
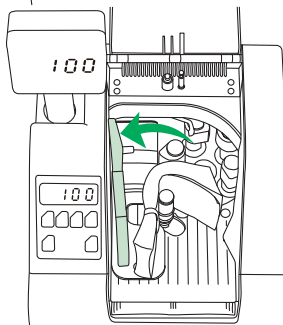
4 When the 1st standard strap is counted, the clamper will open automatically, and the display will show counted quantity of the 1st strap.

5 ▶

Put another strap and then repeat the same operation.

5

Place a standard strap into clamper until the notes touch the start switch.

6

Machine starts counting.

7

8
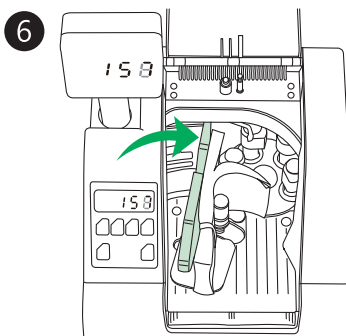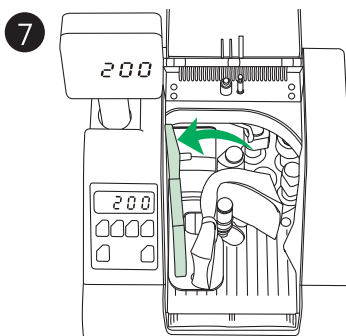
When the 2nd standard strap is counted, the clamper will open automatically, and the display will show counted quantity of the 2nd strap.

ADD Mode (3 times counting example)
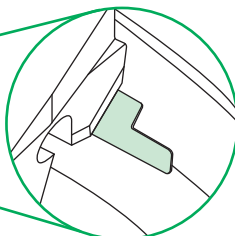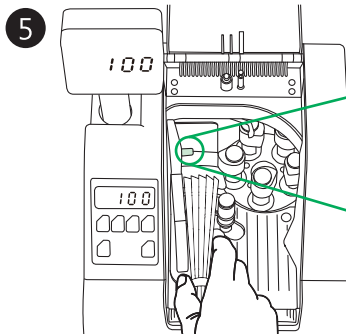
8

Place a standard strap into clamper until the notes touch the start switch.

9

Machine starts counting.

10

If the counting result is more or less than the preprogrammed standard strap (100 notes), the display and the indicator lamp of ADD key will blink, and an audible alarm will sound to warn the operator.

(Please refer to CHECK Mode for the audible alarm setting.)

11

⑪

299

AUTO | ADD | COUNT | CHECK
SET
0 RESET | BATCH
SPEED

⑫

200

AUTO | ADD | COUNT | CHECK
SET
0 RESET | BATCH
SPEED

⚠ If the counting result is more or less than the preprogrammed standard strap (100 notes), please press ADD key to delete the last counted quantity.
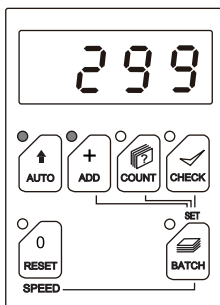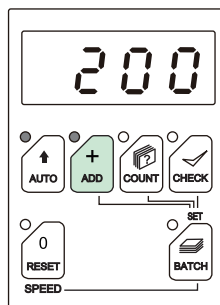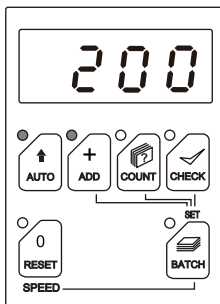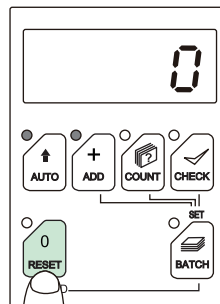Machine will start counting while the last error counted quantity is deleted.
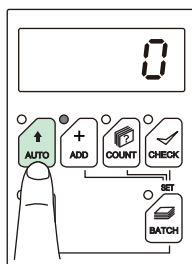
❶

200

AUTO | ADD | COUNT | CHECK
SET
0 RESET | BATCH
SPEED

❷

0

AUTO | ADD | COUNT | CHECK
SET
0 RESET | BATCH
SPEED

Press RESET key, the total quantity will return to zero (0).
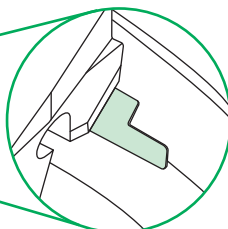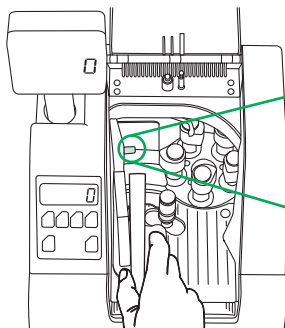
✚ ADD ADD Mode (Manual)

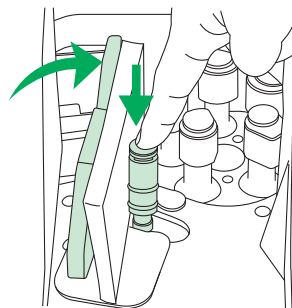⚠️ This mode is recommended for counting random quantity of notes.

① Press AUTO key till the indicator lamp of AUTO key is off, which means Manual function is selected.
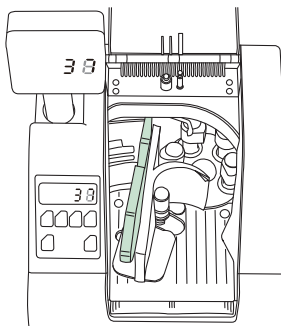
② Place a pack of notes into the clamper until the notes touch the start switch.

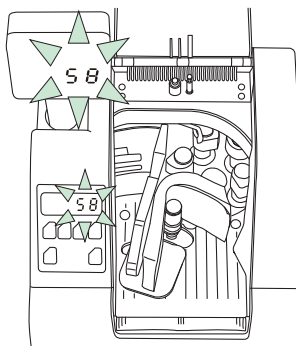③ The clamper will close automatically, then press TRIGGER BUTTON.
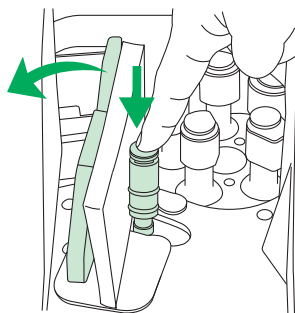
④ Machine starts counting.

5 ▶

5

Every time when the counted quantity is less or more than the preprogrammed setting (100 notes), the display and indicator lamp of RESET will blink and the alarm will sound to warn the operator, but the machine won't stop counting, the operator could still repeat the step ❷.
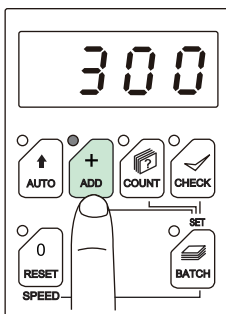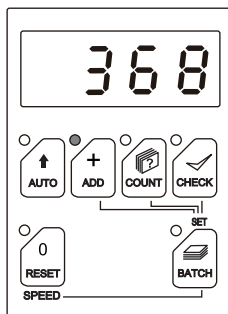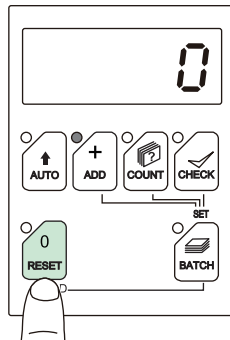(Please refer to CHECK Mode for the audible alarm setting.)

6

When all the notes are counted, press TRIGGER BUTTON to open the clamper.

7

⚠

If the counting result is more or less than 100 notes, operator could press ADD key to delete the last counted quantity or let the machine keep counting then accumulate the counting quantity.
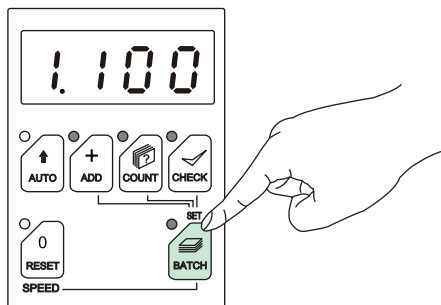
8

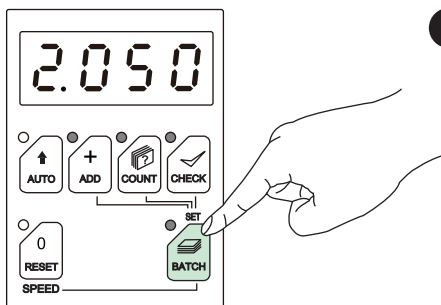Press RESET key, the total quantity will return to zero (0).
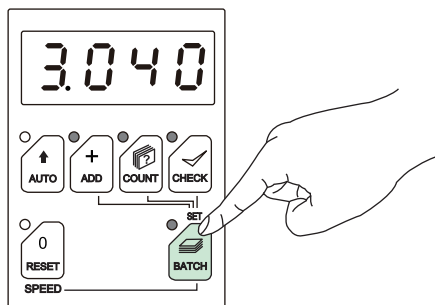
BATCH Mode

1

Press BATCH key to start BATCH Mode, display will show the current batch stop quantity. (The figure 1. at the far left of the display is the preprogrammed batch stop reference (1 – 6 and C), the 3 digits (100) is the preprogrammed batch stop quantity.)

2

3

Keep BATCH key pressed until the required preprogrammed batch stop quantity appears, then release BATCH key.

Factory setting for the preprogrammed BATCH stop quantities are: 100, 50, 40, 25, 20 and 10, for CHECK Mode is 100 notes (C.100).
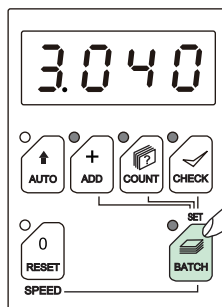
The maximum batch stop quantity is 199 notes, the display will show the batch stop quantity or a temporary batch stop quantity during the counting operation.
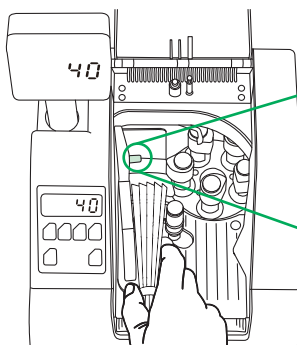
BATCH Counting Operation
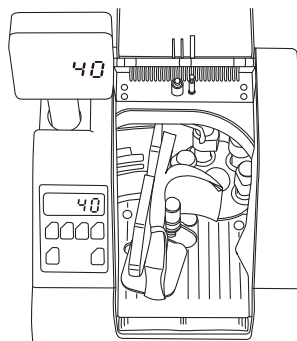(Counted notes are more than batch stop quantity)

1

As an example with preprogrammed batch stop reference 3.040 (preprogrammed batch stop quantity is 40 notes).
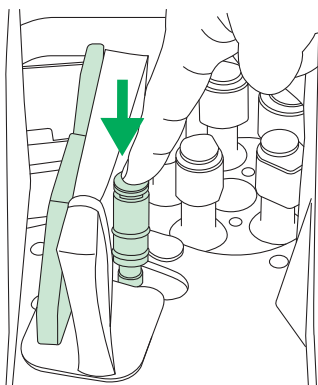
2

Place a pack of notes into clamper until notes touch the start switch, machine will start counting.
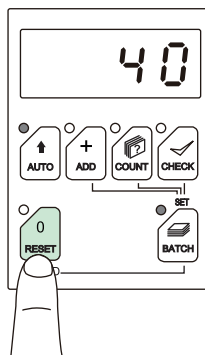
3

Machine will stop counting when preprogrammed batch stop quantity is accomplished, but the clamper still remains closed.

4

OR

Hold the batched notes and press TRIGGER BUTTON or RESET key to open clamper and take notes out.
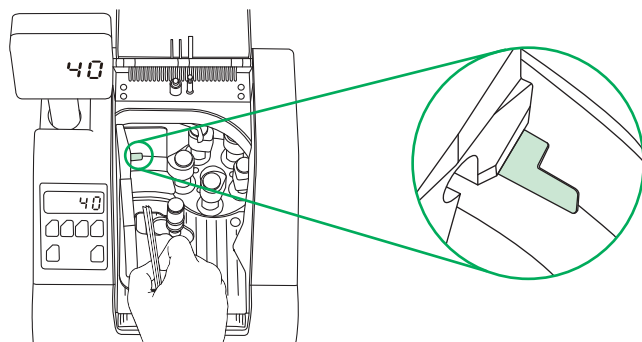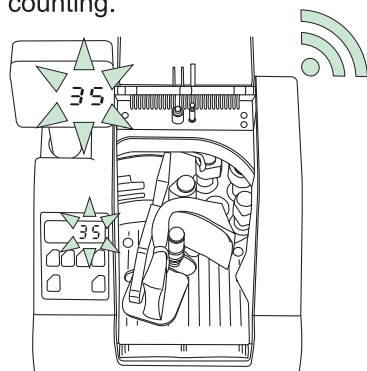
5

BATCH Counting Operation
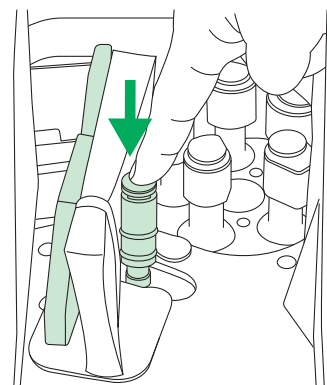(Counted notes are less than batch stop quantity)

5

Place a pack of notes into clamper until notes touch the start switch, machine will start counting.
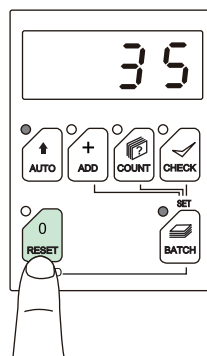
6

If counted notes are less than preprogrammed batch stop quantity, the display and indicator lamp of RESET key will blink, the audible alarm will sound to warn the operator.
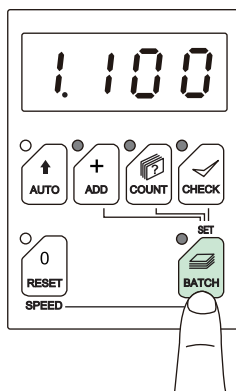
7

OR

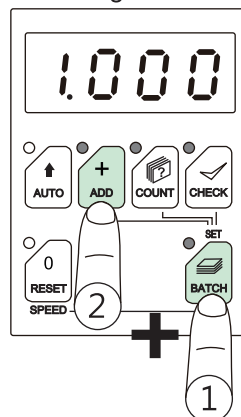Press TRIGGER BUTTON or RESET key to open clamper, and take notes out.

BATCH Mode – A temporary batch stop quantity

A temporary batch stop quantity between 1 to 199 can be set. Keep BATCH
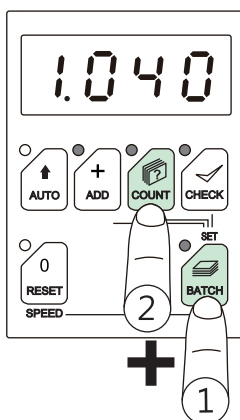key pressed and input the required batch stop quantity by using three SET keys.
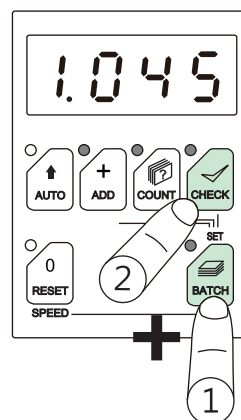
1 Press BATCH key, and

2 Press ADD key to input the value of digit in hundreds.

3 Press COUNT key to input the value of digit in tens.

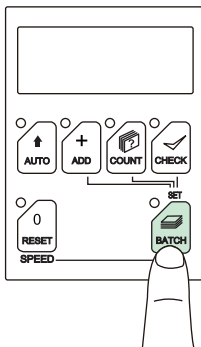**4** Press CHECK key to input the value of digit in units.

⚠ This temporary batch stop quantity will not be deleted until the next batch
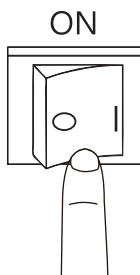stop quantity is input and / or reboot.

Programming Preset Batch Stops

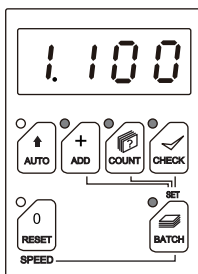Machine can be input six preprogrammed batch stop quantities and CHECK Mode (C.xxx).

1 **2** ON

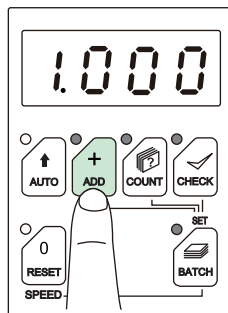Keep BATCH key pressed while turning power ON.
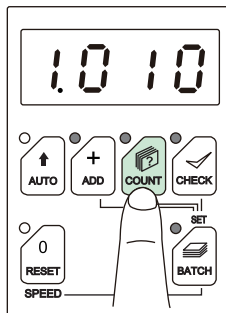
3 *1.100*

Release BATCH key.

The display will show 1.100 and indicator lamps of ADD, COUNT, CHECK and BATCH keys will light up.
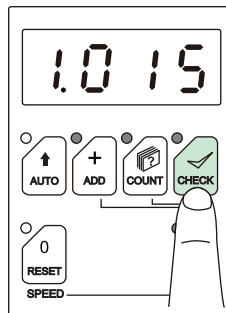
4 Use three SET keys to input the required batch stop quantity.
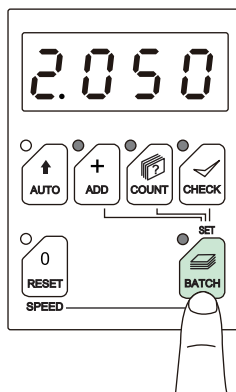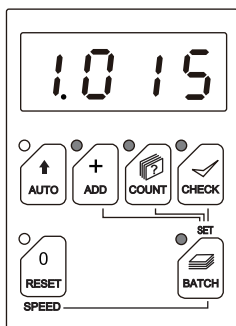
1.000

ADD key for inputting the value of digit in hundreds.

1.010

COUNT key for inputting the value of digit in tens.

1.015

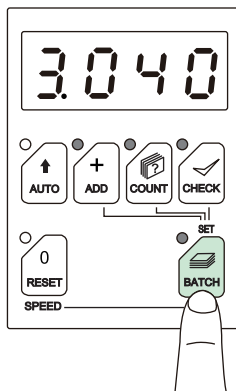CHECK key for inputting the value of digit in units.

5

5

As an example with batch stop reference 1., the required batch stop quantity is 15 (notes).

Press BATCH key to save this required batch stop quantity.
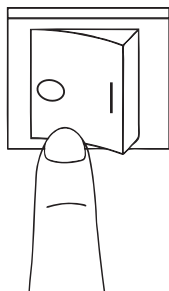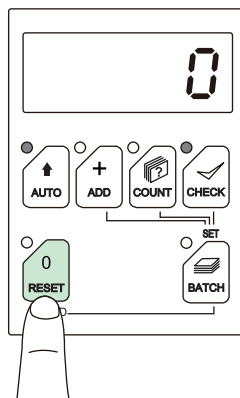In the meantime, the display will show next batch stop reference 2.050.

6

Press BATCH key again to select next batch stop reference 2.050…3.040…6.010 and repeat the setting action until all required batch stop quantity are set and saved.

7
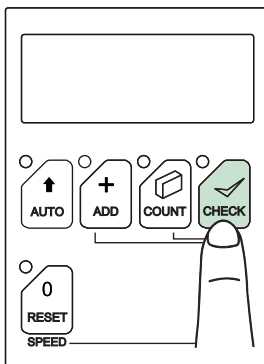
OFF ➜ ON

OR

Reboot or press RESET key to start counting.
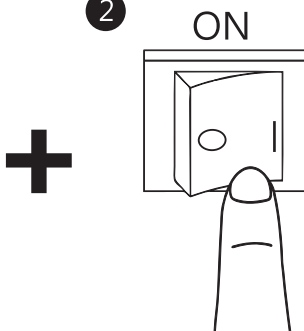
3

Diagnostics Functions

Chapter 3 Diagnostics Functions
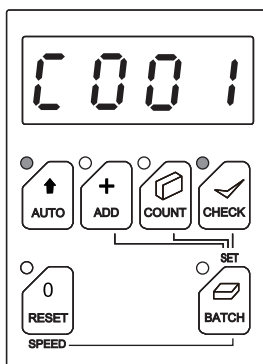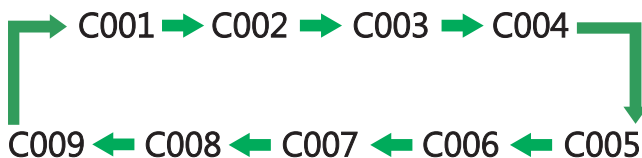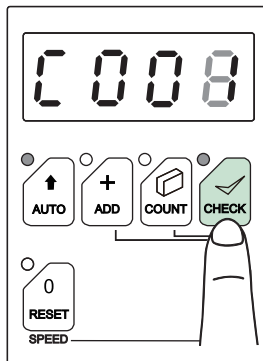
Diagnostics Functions

1

Keep CHECK key pressed while turning power ON.

2 ON

3

The display will show C001 and indicator lamps of AUTO and CHECK keys will light up, the three digits 001 means diagnostic function 1 (from 1 to 9).
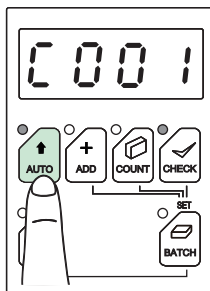
4

C001 → C002 → C003 → C004

C009 ← C008 ← C007 ← C006 ← C005

Press CHECK key to select any one of the 9 diagnostics functions.

C001 – Vacuum Pressure Test

1

Press AUTO key to start vacuum pump.

2
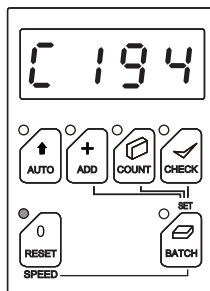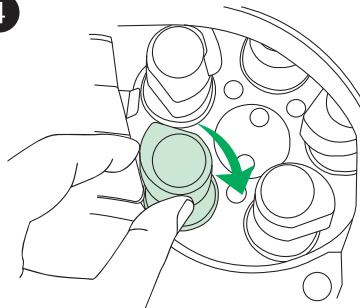

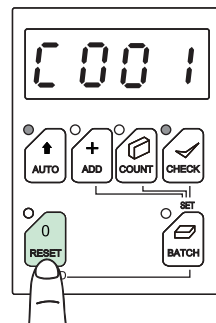The display will show current pressure level (mmHg) of vacuum pump.

3

4
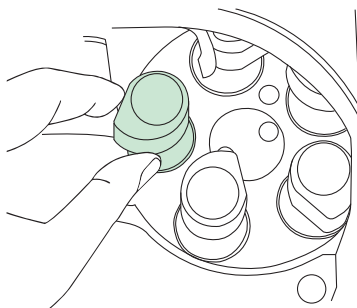
Move suction spindle as showed in figure 4, the pressure level will go up from the lowest value to the highest value.
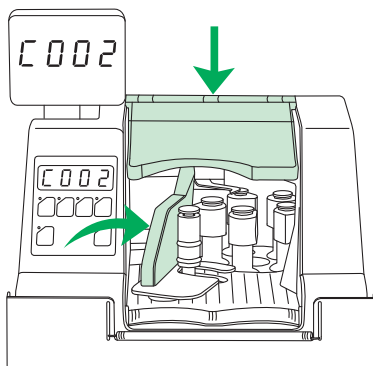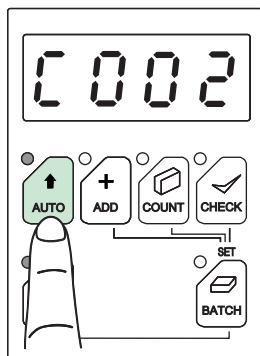
5
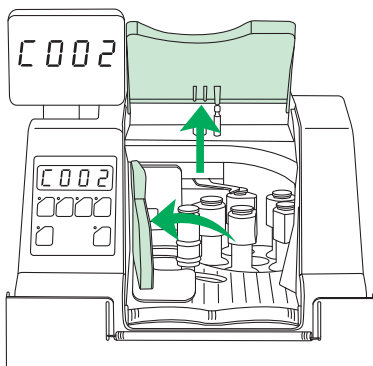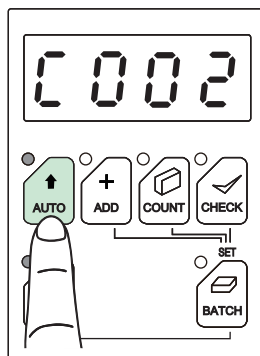

Press RESET key to terminate test.

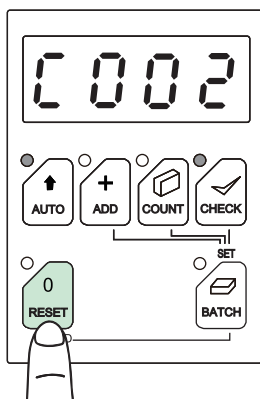# C002 – Clamper and Dust-guide Lid Test

1

Press AUTO key to close clamper and dust-guide lid.

2

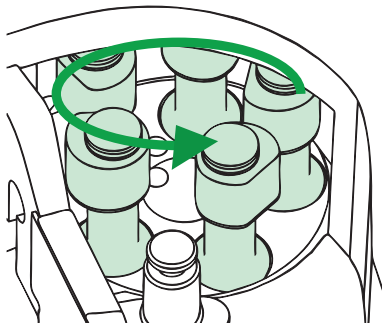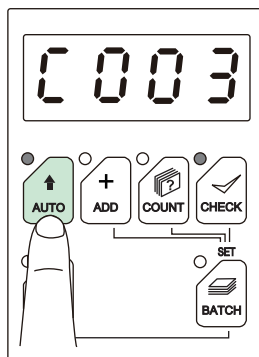Press AUTO key again, the clamper and dust-guide lid will open.
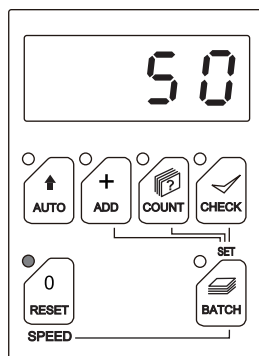
3

Press RESET key to terminate test.
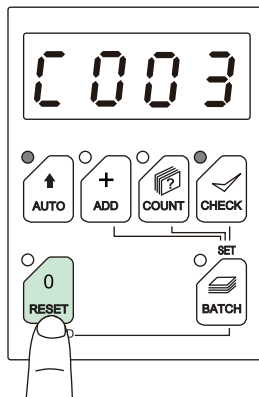
C003 – Rotor Test

1

Press AUTO key to start rotor.

2

The display will show current speed of suction spindle of rotor. (notes/ second)

Factory preprogrammed setting is 50. (notes/ second)

(Please refer to switch counting speed setting.)
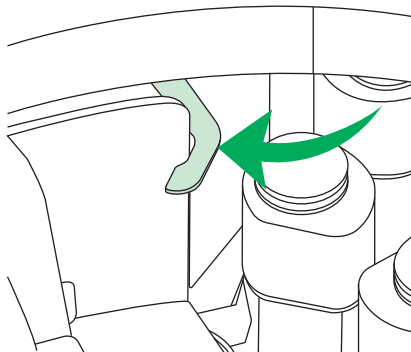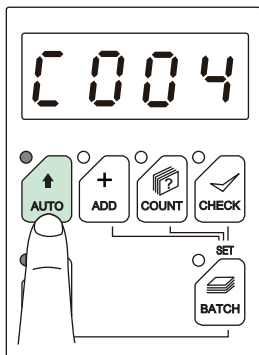
3
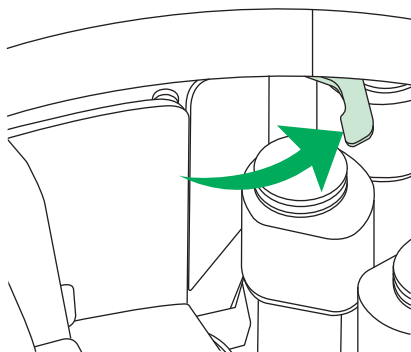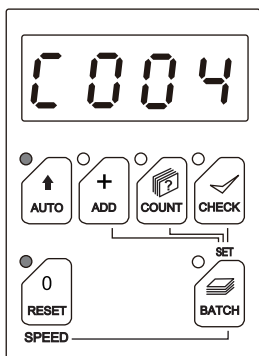
Press RESET key to terminate test.

C004 – Counting Stop Lever Test

1
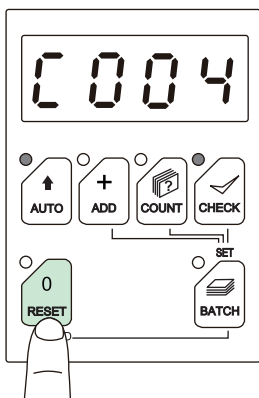
`C004`

Press and hold AUTO key to activate counting stop lever.

2

`C004`

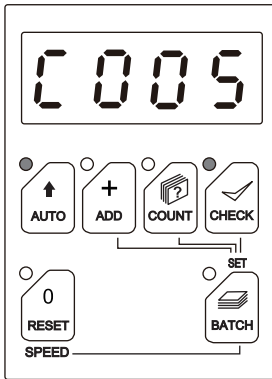Release AUTO key to deactivate counting stop lever.

3

`C004`

Press RESET key to terminate test.

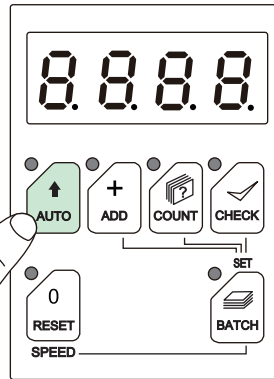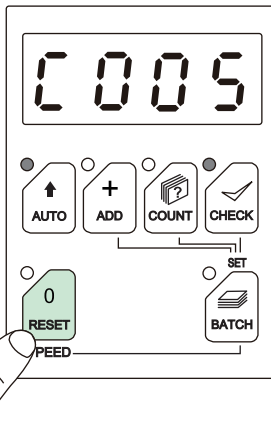# C005 – Display and Indicator Lamps Test

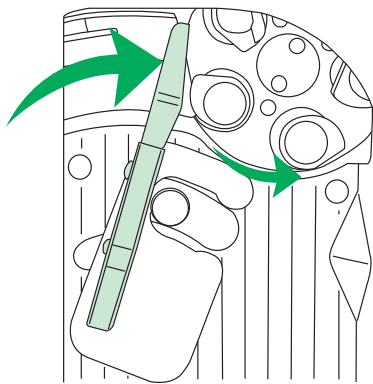Press and hold AUTO key, display and all indicator lamps will light up.
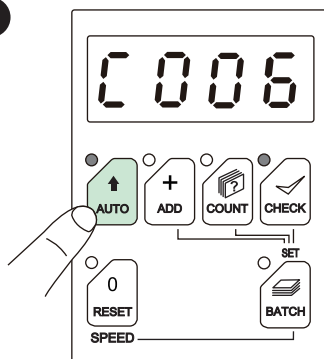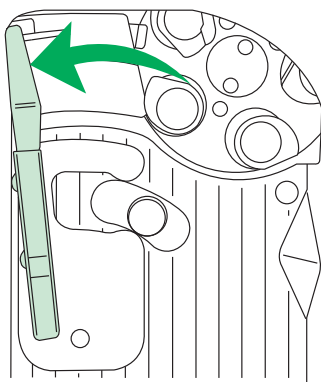
Press RESET key to terminate test.
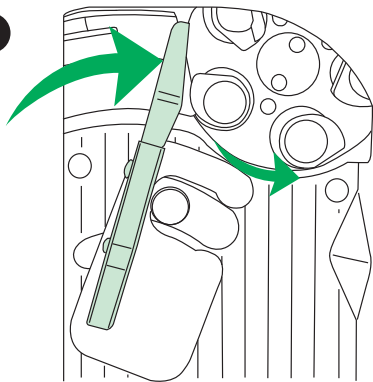
C006 – Simulated Counting Test

1

Press AUTO key to start simulated counting test for 100 notes, the clamper will close automatically and machine starts counting.
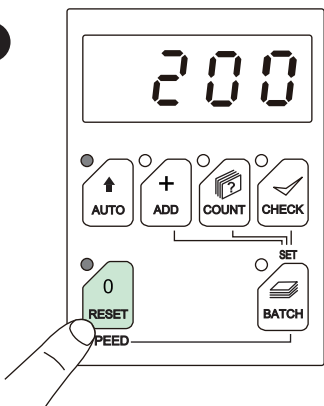
2 **3**

After 100 notes are counted, clamper will open automatically, then the simulated counting test will repeat again.
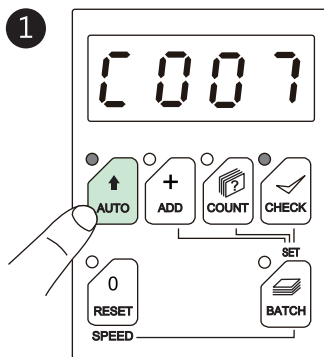
4
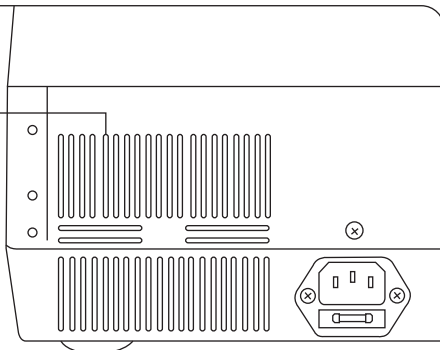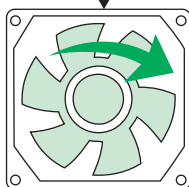
Press RESET key to terminate test.
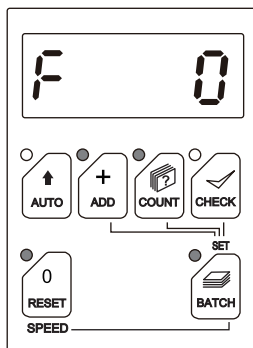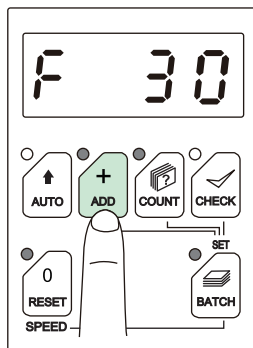
C007- Cooling Fan Setting

1

Press AUTO key.

Cooling fan helps cooling the machine continually. When the cooling fan setting is set, the fan will be operating after machine stops counting.
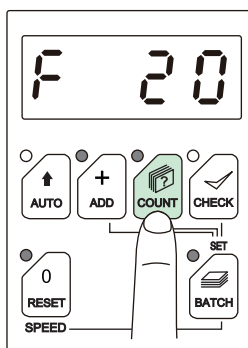
2

If the setting is "0", the fan will stop operating after the machine stops counting.
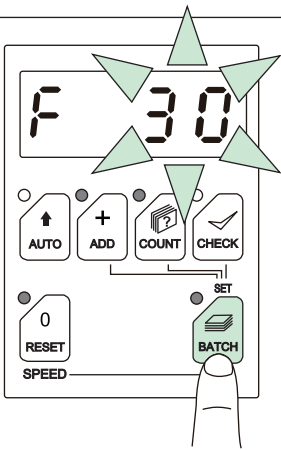
3

The operation time of the fan can be set from 0 to 60 minutes. Press ADD key to increase the operation time. (+) 。

Press COUNT key to decrease the operation time. (−) 。
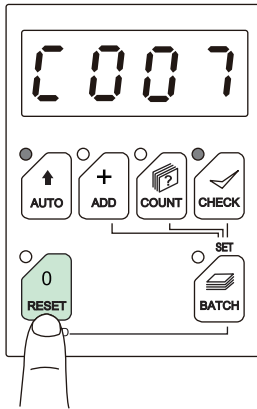
4 ▶

④

The indicator lamp of BATCH key will blink, which indicates the new setting is saved.
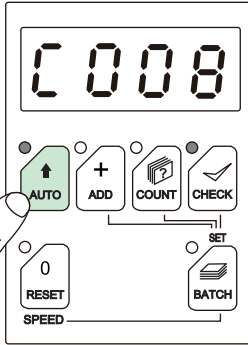
⑤

Press RESET key to terminate test.
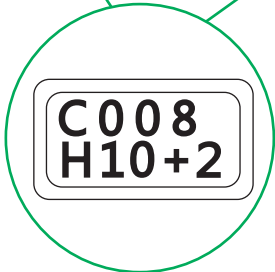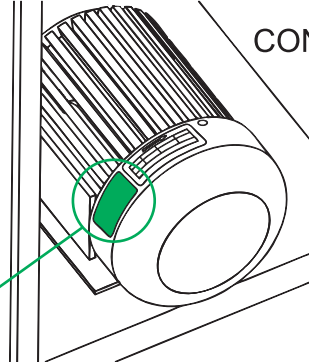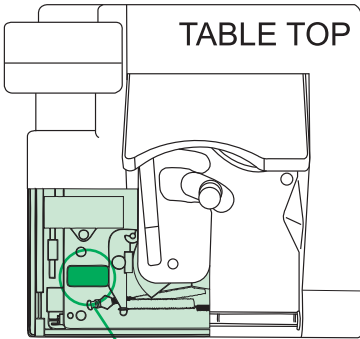
C008 - Vacuum Pump Pressure Parameter (H-Value) Test

⚠️ Diagnostic function C008 is designed for engineer, not for user.
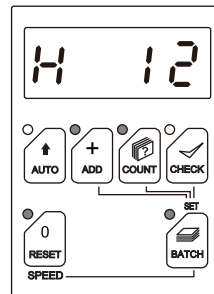
1

C008

Press AUTO key.

2

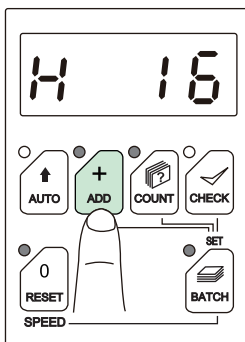TABLE TOP   CONSOLE

3

C008
H10+2

H 12

Display will show the current vacuum pump pressure parameter (from 0 to 50), check this parameter with the factory setting parameter indicated on the sticker in the machine.
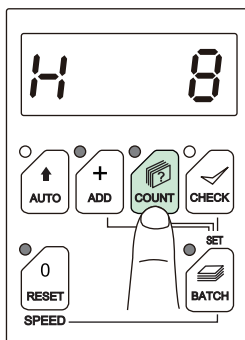
3

If the parameter on display is not the same as the factory setting parameter (the one on the sticker in the machine), please adjust it by the following steps:
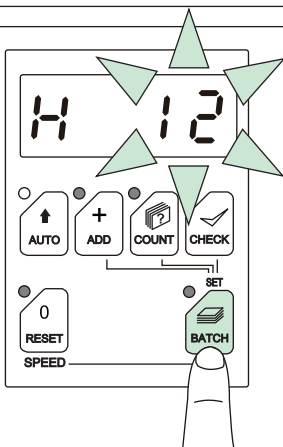
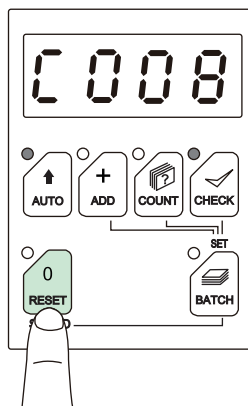Press ADD key to increase parameter.

4

Press COUNT key to decrease parameter.

5

Press BATCH key to save new setting.
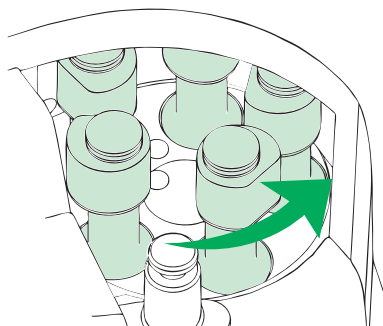
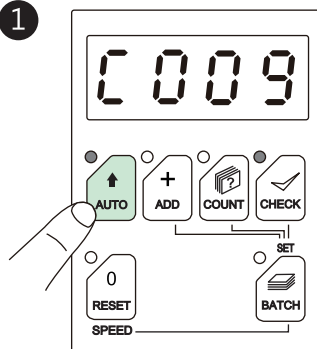**6**

Press RESET to terminate test.
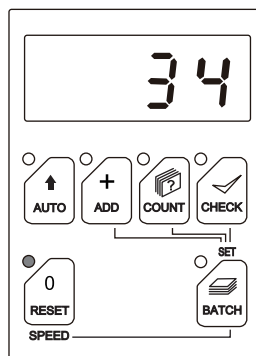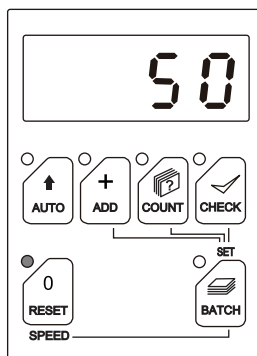
C009 - Five Counting Speeds Rotor Test

⚠️ Diagnostic function C009 is designed for engineer, not for user.
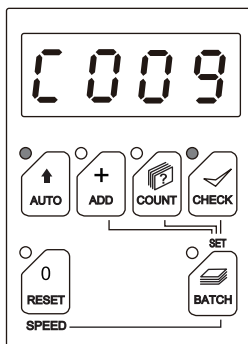
1

Press AUTO key, rotor will start continuous speed positioned action automatically.

2

The display will show the variable counting speed of rotor, in sequence from 50➜34➜25➜20 to 17. (notes/ second)

3

Display will show C009 automatically when the test is finished.

MEMO

MEMO