

Automatic Screw Feeder

自動ネジ供給機

NJ/NSB Series

OPTION COUNTER Operation Manual

Read these instructions for the proper use of this machine.
After having read these instructions,
keep them in a convenient place so you
or the operator can refer to them whenever necessary.

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目前, 敝司在中国没有办事处与所谓的中国官网。」

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NJC1MAE01b

1. OUTLINE

Thank you for purchasing our Automatic Screw Feeder with counter.

This counter is an additional feature for the NJ and NSB series Automatic Screw Feeder.

This manual explains a method of operating and using the counter of Automatic Screw Feeder.

For information on specifications and adjustment of the automatic screw feeder, see the user's manual of the NJ or NSB series.

Read and save the instructions of this manual and the NJ or NSB series user's manual to achieve the best performance of Automatic Screw Feeder.

To prevent malfunction due to static electricity, etc., connect the unit to a ground before use. Attach the ground wire by loosening the screw near the mark  of the equipment.



the bottom of the main body

2. OPERATION

2- 1. Screw Feeding

Each time Automatic Screw Feeder picks up a screw, the count on the SET counter is decremented by one.

When the last screw of the preset count is picked up, the “COMPLETION” indicator on the counter lights up with beeps.

At the same time, the SET field shows the set count and the SET TOTAL field increments the count by one.

2- 2. Number adjustment

When there is a mistake in screw pick-up, and the screw is not counted, you can correct the count. Press the NO COUNT button. The SET field and the COMPLETION indicator will flash on the LCD panel. When Automatic Screw Feeder picks up the next screw, the SET field and the COMPLETION indicator stop flashing. With this, the count is corrected and the normal counting resumes.

3. LCD COUNTER

See the pages below for the configuration and setting of the LCD counter.

Setting on the panel before starting screw feeding

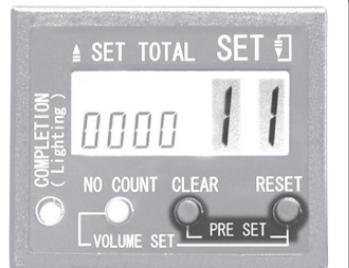
Turn on Automatic Screw Feeder and set or change counts while the screw feeder is at rest.

《Setting a set count → PRESET》

- You can set or change a set count when SET TOTAL is "0000".
Clear the SET TOTAL field. (See the next page.)
- You can set a single digit number by the RESET button (the right PRESET button) and a tens digit number by the CLEAR button (the left PRESET button).
- When you press down and hold on one of the PRESET buttons, the buzzer beeps in about 2 seconds; another 2 seconds later, it beeps again and the digit above the button will flash on the LCD panel.
In this status, you can change (or set) a value on the digit, The value on the digit changes each time you click the button.
- To set the value, just wait the value stops flashing,
You can use either of the PRESET buttons to set a value on the flashing digit.

《PRE SET》

Set a set count.

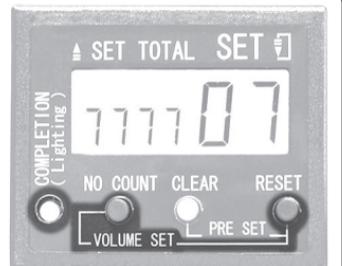


《Changing the sound volume → VOLUME SET》

- You can change the magnitude of beeping of the buzzer. Press both VOLUME SET buttons (NO COUNT and PRESET buttons) at the same time for about 4 seconds. The COMPLETION indicator flashes. Now you can change the volume.
- The beeping volume changes in the order below by pressing the RESET button while the COMPLETION indicator is flashing.
Minimum→Medium→Maximum→Mute→Minimum→Medium→...
- To set the beeping magnitude, wait until the indicator stops flashing.

《VOLUME SET》

Set a beeping magnitude.



Setting on the LCD panel when the screw feeding is in progress

Turn on Automatic Screw Feeder and set or change counts while the screw feeder is at rest.

《Resetting a SET count → RESET》

-You can reset a set count while the screw feeding is in progress. Keep on pressing the RESET button for about 2 seconds. The buzzer beeps and you can reset the set count.

《Clearing a SET TOTAL count → CLEAR》

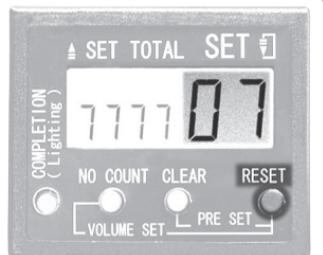
-Keep on pressing the CLEAR button for about 2 seconds. The buzzer beeps and you can reset the SET TOTAL count to "0000".

《Correcting of a pick-up failure → NO COUNT》

-When a mistake in pick-up action occurs, or when the accessed screw is dropped or missed, you can cancel the count by mistake.
-Push the NO COUNT button when the feed failure occurs, the SET field and the COMPLETION indicator will flash with beeps.
-When the next screw is pick-up successfully, the SET field and the COMPLETION indicator stop flashing. The SET count remains unchanged (is not decremented), and resumes the normal counting restarts.

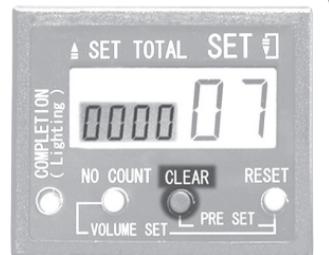
《RESET》

Reset to a set count when screw feeding is in progress.



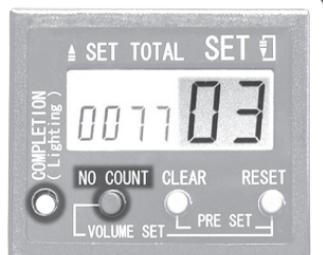
《CLEAR》

Reset the SET TOTAL count to "0000".



《NO COUNT》

Cancel a count of a feed failure.



Description of LCD Panel

《SET field》

- This field displays a set count.
- The count in this field is decremented by one each time a screw is taken out.
- When all screws of the preset count are taken out, this field displays the set amount again.
- This field flashes while the set count is changed.
- This field flashes when you press the NO COUNT button when screw feeding is in progress.
- The screw feeder stops when a screw remains on the stopper and runs when no screw is on the stopper.

《SET TOTAL field》

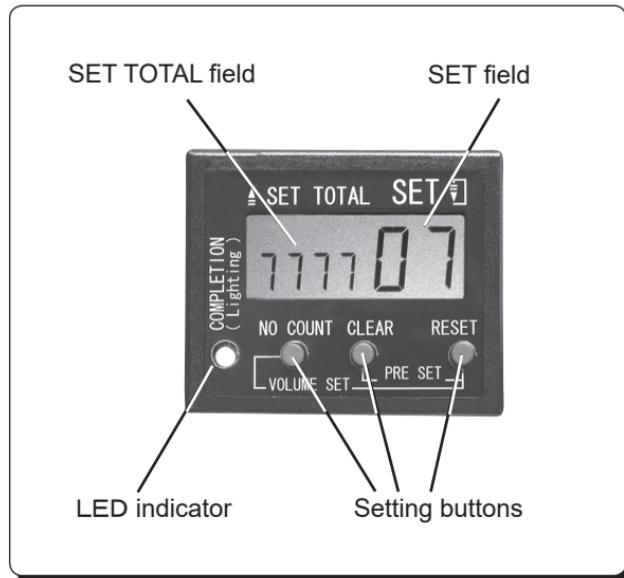
- This field displays a total number of screw sets that have been taken out.
- The count in this field is incremented by one each time a set is completed.
- The screw feeder stops when a screw remains on the stopper and runs when no screw is on the stopper.

《LED indicator》

- This indicator lights up when screws of a present number (count) are all taken out and goes off when the next screw is taken out.
- This indicator flashes when you press the NO COUNT button when screw feeding is in progress.
- This indicator flashes while you change the volume of beeps.

《Setting buttons》

- These buttons are used to set, clear, and reset a count.



- The values of the LCD counter is backed up automatically by memory against a power failure or an unintentional operation of the power switch.

Count sensitivity adjustment (for NJC)

Counting is performed by detecting the movement of the rail stopper. Please adjust the angle of the switch link receiver on the rail when the count varies or when the rail is replaced.

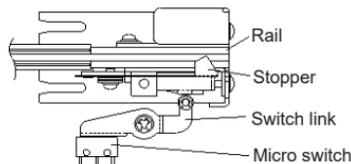
Normally, the micro switch is pressed.

If the stopper opens when removing the screw, the arm pushes the roller of the switch link and the micro switch operates.

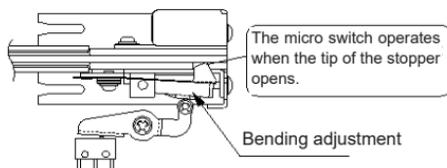
Hold the switch link receiver with needle-nose pliers, etc., adjust the bending condition, and adjust the angle so that the micro switch operates by the movement of the stopper when the screw is taken out from the rail.

If it is difficult to count, open it outward.

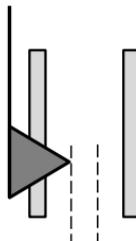
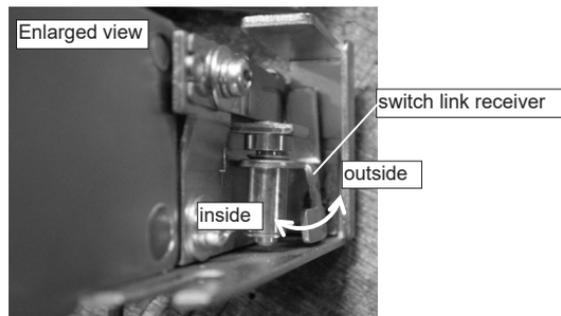
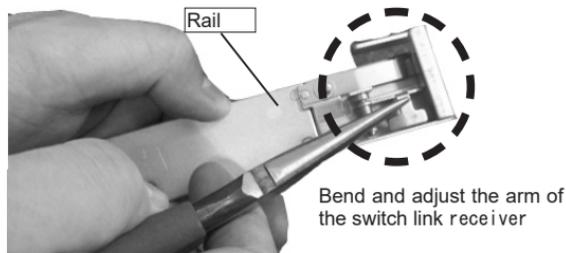
If it opens too much and doesn't count, move it back a little.



When waiting for screw removal



When screw removal



Ideally, the microswitch will operate when the stopper is open to 2/3 of the rail width.

Adjust according to the screws used and the actual removal.

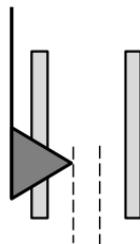
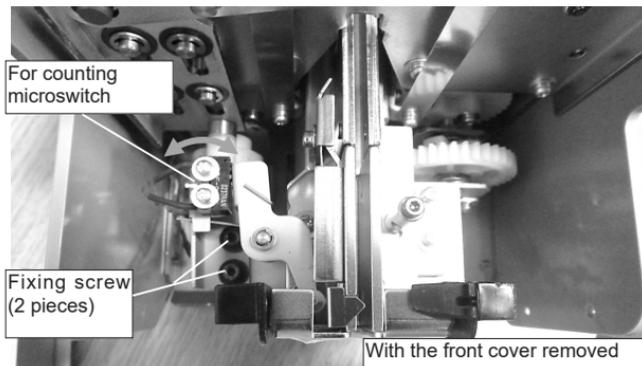
Count sensitivity adjustment (for NSBC)

Counting is performed by detecting the movement of the rail stopper. Please adjust the position of the microswitch if the counts vary or if the rails are replaced.

Normally, the micro switch is pressed.

The micro switch operates when the stopper opens when removing the screw.

Remove the front cover, loosen the fixing screw with the attached hexagon wrench, move the micro switch left and right, and adjust the position so that the micro switch operates by the movement of the stopper when the screw is taken out from the rail.



Ideally, the microswitch will operate when the stopper is open to $\frac{2}{3}$ of the rail width.

Adjust according to the screws used and the actual removal.

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(as of Apr. 2021)

(2021年4月現在)