Adjusting for the Registration Mark Scan Position

Sensor to scan the registration mark is positioned away from the tip of the tool (pen tip). Therefore, it is necessary to adjust the coordinate values of the scanned registration mark so it will match with the cutting position.

If the registration mark is already marked on the media, scan that registration mark, plot another registration mark in the same position, and measure the difference between them. This difference is entered as a adjustment value.

If there is no registration mark on the media, plot a registration mark first, scan that registration mark, plot another registration mark, and measure the difference of them. This difference is entered as a adjustment value.

Reference

There is a restriction on the shape (style) of the registration marks that can be scanned. See "Setting Shape (Pattern) of Registration Mark"
① P.5-9 .

Adjust After Plotting the Adjustment Registration Mark

This section describes the steps to plot the registration mark.
Registration mark is to be plotted if there is no registration mark on the media to adjust the registration mark scan position. Then proceed to the steps of "Adjust the Registration Mark Position".

Reference

Proceed to "Detect the Registration Mark for Adjustment on the Media and Enter the Value" ① P.5-30 without plotting the registration mark if the registration mark is already drawn on the media.

▼ Operation

1 Load white media.

Supplement

See "Loading Media (Paper or Marking Film)"
① P.2-6 for loading white media.

2 Set the water-based fiber pen (black) on the tool holder.

Supplement

See "Attaching a Tool" ① P.2-4 for setting the water-based fiber pen.

3 Press the **[MENU]** key.

▶MENU screen is displayed.

4 Press the **[2]** key (ARMS).

▶ARMS SETTING screen (1/4) is displayed.

5-27

5

Press the **POSITION (▼)** key twice.

▶ARMS SETTING screen (3/4) is displayed.

```
◀ARMS SETTING    3/4
         ▲
1SENSOR OFFSET ADJ.
2SENSOR ADJUST
3MARK AUTO SCAN
4PAPER-WEIGHT
         ▼
```
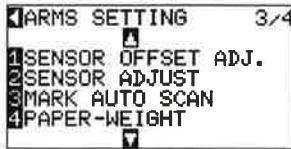
6

Press the **[1]** key (SENSOR OFFSET ADJ.).

▶SENSOR OFFSET ADJ. setting screen is displayed.

```
 SENSOR OFFSET ADJ.
1TEST PATTERN
2SCAN
3X=+0.0mm
4Y=+0.0mm
ESET       ◀CANCEL
```

7

Press the **[1]** key (TEST PATTERN).

▶Following message is displayed.

```
 ▲▼◀▶■E
USE THE POSITION KEY
TO MOVE THE TOOL AND
THEN PRESS ENTER.
4CANCEL
```

8

Press the **POSITION (▲▼◀▶)** key and move the tool carriage to the position to plot the registration mark (position nothing is printed).
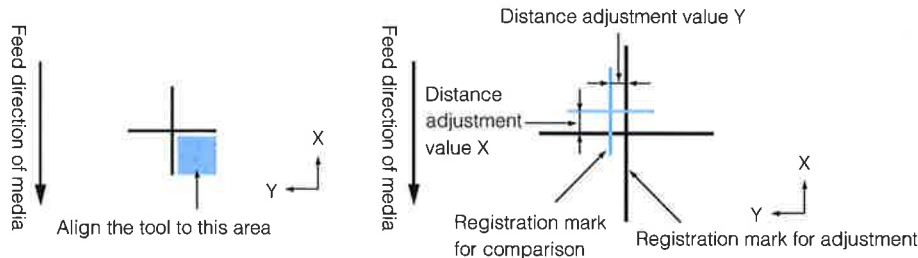
9

Press the **[ENTER]** key.

▶Registration mark is plotted.

10

Confirm that the tool is at the position shown in the left image, and press the **[ENTER]** key.

▶It will read the registration mark, and then plot the registration mark for comparison. It will return to SENSOR OFFSET ADJ. screen once the plotting is completed.

Feed direction of media

X
Y
Align the tool to this area

Feed direction of media

Distance adjustment value X

Distance adjustment value Y

X
Y
Registration mark for comparison

Registration mark for adjustment

11 Using the registration mark plotted in step 9, measure the distance of how much the comparison registration mark needs to be moved so both will overlap, and record the value. As an example, in the figure above, it needs to move in negative directions for both X and Y directions, so both of the adjustment values will be negative values.

12 Press the [3] key (X).

▶SENSOR OFFSET ADJ. X screen is displayed.

```
SENSOR OFFSET ADJ
SENSOR OFFSET ADJ.
         ▲
     X=+0.0mm
         ▼
◀PREVIOUS
```
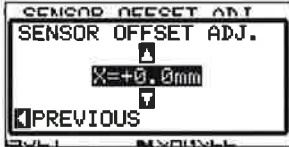
13 Press the **POSITION (▲ ▼)** key and increase or decrease the setting value. Set the X value measured in step 11.

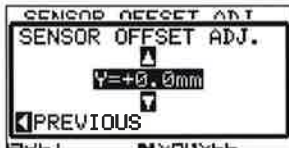**14** Confirm the setting and press the **POSITION (◀)** key (PREVIOUS).

▶SENSOR OFFSET ADJ. is selected and it will return to SENSOR OFFSET ADJ. screen.

15 Press the [4] key (Y).

▶SENSOR OFFSET ADJ. Y screen is displayed.

```
SENSOR OFFSET ADJ
SENSOR OFFSET ADJ.
         ▲
     Y=+0.0mm
         ▼
◀PREVIOUS
```

16 Press the **POSITION (▲ ▼)** key and increase or decrease the setting value. Set the Y value measured in step 11.

17 Confirm the setting and press the **POSITION (◀)** key (PREVIOUS).

▶SENSOR OFFSET is selected and it will return to SENSOR OFFSET ADJ. screen.

18 Confirm the setting and press the **[ENTER]** key (SET).

▶Setting will be set, and it will return to ARMS setting screen (3/4).

19 Press the **[MENU]** key.

▶It will return to the default screen.