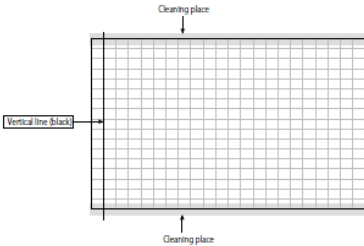


Engineering Change Notice		#: DST-10051E Date: 5 Mar 2015 Approved by: I. Watanabe—Quality Assurance Issued by: Tak Inoue – International Sales	
Product	Copyboard	Model	N-20 Series (N-20S/W/J, C-20S/W, N-204), M-17S/W, M-18S/W, NF-20
Change	Calibration Method		
Reasons	To avoid calibration failure when template sheet is used for copyboards.		
Schedule	From firmware version ver.15 for N-20 series, M-17 and M-18 series.		
Methods	Replacement of calibration method on the service manual		
<p>[Details of the change]</p> <p>To avoid calibration error caused by interference with template sheet attached after purchase, horizontal calibration line was changed. Formally calibration was conducted in the center area. To avoid the interference with template sheet, new method reads upper and lower area. The calibration line was extended to cover total area from top to the bottom across the sheet vertically.</p> <p>From following Serial Number, new calibration method is applied.</p> <p>N-20S /W /J: ver. 15.00 N-204: ver. 15.00 C-20 S/W: ver.15.00 M-17 S/W: ver.15.00 M-18 S/W: ver.15.00 NF-20: from ver.18.02 (first production)</p> <p>New calibration line. For details, read the attached new calibration method</p>  <p>*Our webpage: http://www.plus-vision.com/en/support/download/update.html *Contents server: https://www.plus-vision.co.jp/dx/ns/plus/ can be entered with your ID and password.</p>			

Attachment:

5. ADJUSTMENT

5-1. Calibration

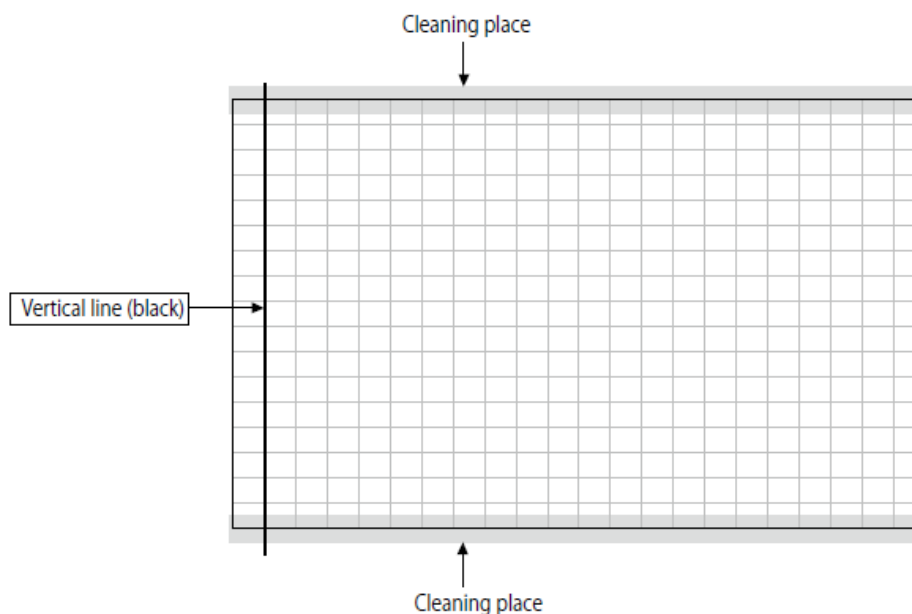
Calibration is required in the following cases.

- When a Main Board Assy is replaced
- When an Endless Sheet is replaced
- When a Sheet Frame Unit is replaced

For the replacement of a CIS Unit in the market, usually, use a unit that has been adjusted at a factory.

* Be sure to replacing the CIS Unit when any failure occurs in an image.

[Calibration]



[Preparation]

Enter a vertical line (black) between the upper and lower ends of an Endless Sheet.

* Clean the (both sides of) endless sheet and then perform calibration.

[Calibration mode]

- Insert the plug of an AC Adapter into the main set so as to apply an electric current (in the Standby state).
- Press the Save button three times while pressing and holding the Power (ON/Standby) button.
Segment display in test adjustment mode: <AP>
- Press the Feed/Stop button. Segment display: "01".
- Press the Save button.
- Segment display appears when the Endless Sheet rotates for normal termination: <AA>

- 1) Calibration is started,<1. >
- 2) Initialization,<1.0>
- 3) The first vertical line is being detected,<1.1>
- 4) The vertical line after one cycle is being detected,<1.2>
- 5) When no vertical line can be detected, and<1.2.>
- 6) When calibration succeeds<AA>