Model: Altair-SC1	Date: 29-Jul-05	No.: RG417002

Subject: Endorser Unit	Prepared by: Yuji Urushihara
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Classification:	☐ Troubleshooting	☐ Part information	☐ Action required
	☐ Mechanical	☐ Electrical	☐ Service manual revision
	☐ Paper path	☐ Transmit/receive	☐ Retrofit information
	☐ Product Safety	☒ Other ( )	

Technical Information for the Endorser Unit option for the Altair-SC a/b

1. Endorser Unit Outline
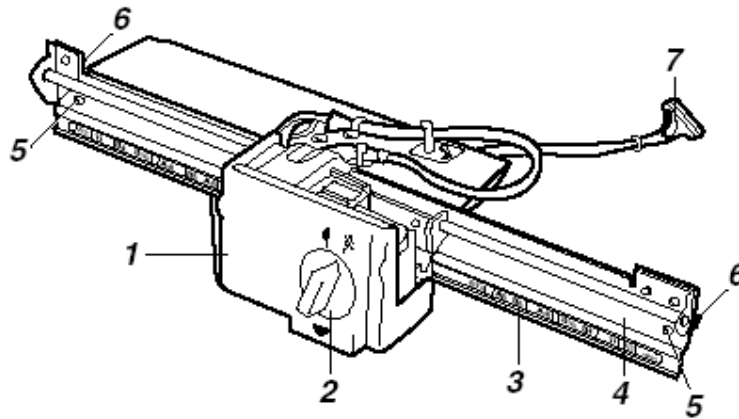
1. Ink Cartridge Box
A nozzle for the ink is on the bottom of the box.

2. Shutter Lever
Open and shuts the ink nozzle.

3. Scale
A scale is printed indicate the print location.

4. Rail
Guide for the ink cartridge box when setting the print location.

5. Screw Hole
Screw hole to fix the unit to the scanner.

6. Hook
Use this hook when installing the unit to the scanner.

7. Connector
Connect the unit and the scanner.

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2. Overview

General Features
● This is an inkjet-type endorser.
● The endorser does not use any motors or solenoids.
● The ink ejection timing is adjusted automatically depending on the paper transport speed.
● The machine can start printing the image after it completely scans the original, or while it is scanning the original.

Ink Cartridge Head
This machine does not have a mechanism that automatically cleans the ink head. Therefore, if low image density streaks appear in text areas, clean the ink head with a damp cloth.

Ink Cartridge Sensor
The shutter prevents ink from leaking out of the ink cartridge box. When the shutter is closed, the endorser cannot print. The endorser uses a sensor (the ink cartridge sensor) to detect the original.

Overview of Endorser Operations
1. The operator enables the endorser function from the scanner driver, and then selects: 1) the characters they want to print and 2) printing on the leading edge or trailing edge. The characters are printed on the rear side of the original.
2. The endorser supports 95 different characters. Operators can select a maximum of 40 of these characters per job. (See the next page).
3. The endorser can only be used with ADF Mode scanning.
4. The ink cartridge sensor detects the leading edge of the original when the original passes the ink cartridge box. Based on this, the machine fixes the printing start position in the sub-scan direction.
5. From the printer driver, it is possible to adjust the printing start position in the sub-scan direction.
6. The endorser is installed under the ADF original tray.
7. The operator can change the printing position along the main-scan direction. To do this, the operator slides the ink cartridge box to the left or right (see the photo on the next page).
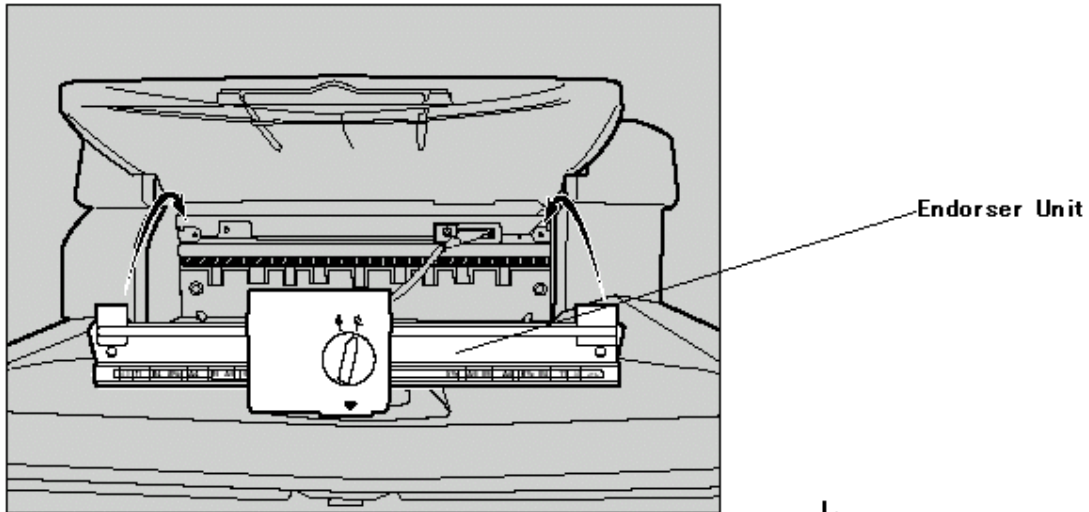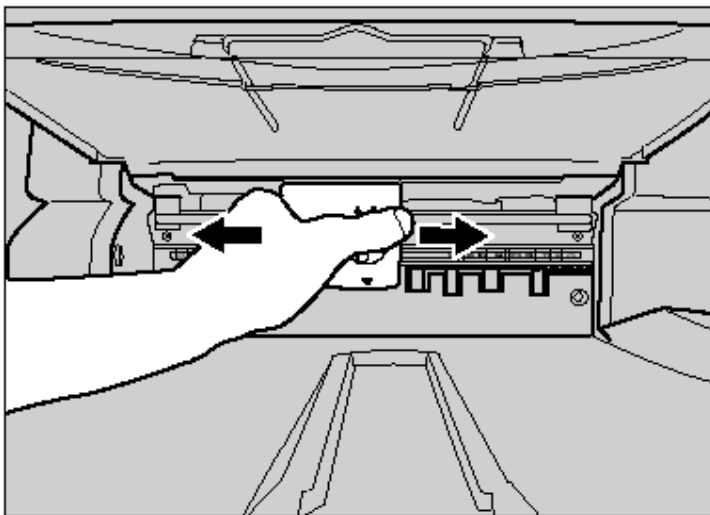
Location

Under the ADF original tray:

Endorser Unit

Adjusting the Sub-scan Printing Position

Note: As a guide, different paper sizes are printed on the scale.

Reference: Related Pages from the Operating Instructions

Characters for Endorse Printing

Select from the following 95 characters for endorse printing.

(space) ! " # $ % & ' ( ) ~ | + - / * @ [ ] ; : < > { } , . = ` ^ \
? _ 0-9 A-Z a-z

Maximum Number of Characters

Maximum number of characters that can be used varies according to the original size. See the chart below for your help.

Original Size (Length of the Feeding Direction)	Maximum Number of Characters	
	Endorse During Scanning Endorse After Scanning [1]	Endorse After Scanning [2]
A3 ⬚ (420mm, 16.6")	40	14
A4 ⬚ (297mm, 11.7")	40	14
A5 ⬚, A4 ⬚ (210mm, 8.3")	40	14
A6 ⬚, A5 ⬚ (148mm, 5.9")	35	14
A6 ⬚ (105mm, 4.2")	17	14
B4 ⬚ (364mm, 14.4")	40	14
B5 ⬚ (257mm, 10.2")	40	14
B6 ⬚, B5 ⬚ (182mm, 7.2")	40	14
B6 ⬚ (128mm, 5.1")	27	14
11" x 17" ⬚ (431.8mm, 17")	40	14
8½" x 14" ⬚ (355.6mm, 14")	40	14
8½" x 13" ⬚ (330.2mm, 13")	40	14
8½" x 11" ⬚ (279.4mm, 11")	40	14
5½" x 8½" ⬚, 8½"x 11" ⬚ (215.9mm, 8.5")	40	14
5½" x 8½" ⬚ (139.7mm, 5.5")	32	14
Minimum Size (90mm, 3.6")	11	11

[1] The case when scanning only on the front side of the originals.
[2] The case when scanning both sides and the back side of the originals.

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3. Specifications

Endorser type	Post
Print side	Backside only
Character orientation	Right or left toward the feed direction
Character type	95 types
Character fonts	OCR B correspondant
Character size	9 points
Character length	Maximum 40 [1]
Print colour	Black
Life of ink cartridge	Five million characters or 6 months
Paper weight	52.3-157.0 g/m^2 (97-298 lb)

[1] The number of characters you can print will be smaller if you endorse after scanning, or with small originals.