Copyboard N-20S/N-20W

SERVICE MANUAL

PLUS

CONTENTS

1. COMPLIANCE OF SAFE REPAIR 3
1-1. Cautions during Product Movement3
1-2. Cautions during disassemblying and assembling3
2. SPECIFICATIONS4
2-1. Product Specifications4
2-2. Names of the Parts5
2-3. Control Panel7
2-4. Meaning of Error Messages8
3. TROUBLE SHOOTING9
4. DISASSEMBLY AND ASSEMBLY10
4-1. Tolls Required10
4-2. Caution10
4-3. Disassembly and Assembly Procedures10
4-4. Disassembly and Assembly11

5. ADJUSTMENT	18
5-1. Calibration	18
5-2. Changing the Internal Program of N-20 Main Set	19
5-3. Test mode	20
6. DEVICE SETTING	21
6-1. CB Setup (operating the copyboard's buttons)	21
7. CABLE AND CABLE CONNECTION	24
8. PARTS LIST	25
8. PARTS LIST 1. PANEL SIDE	
	25
1. PANEL SIDE	25 27
1. PANEL SIDE 2. MAIN BOARD CIS UNIT CABLE	25 27 29
 PANEL SIDE MAIN BOARD CIS UNIT CABLE SHEET FRAME 	25 27 29 31
 PANEL SIDE MAIN BOARD CIS UNIT CABLE SHEET FRAME ACCESSORIES 	25 27 29 31 33

1. COMPLIANCE OF SAFE REPAIR

Be sure to read this Service Manual before providing services. In the PLUS Copyboard, full consideration is taken to ensure the safety for a fire, electric shock, injury, harmful radiation, and substance. Therefore, observe the notice described in this Service Manual so that the safety is kept when providing services. Moreover, be sure to observe the notice described in the User's Manual.

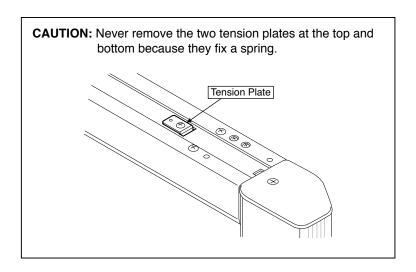
Pay attention to the following during service inspection.

1-1. Cautions during Product Movement

• It is necessary to remove the products when making the service of products put on the wall. At that time, hold the product by two or more persons to prevent the product from dropping or a person from falling down.

1-2. Cautions during disassembling and assembling

- 1. When doing repairs, make sure that power plug is pulled out to insure safety.
- 2. Make sure that parts and screws and wiring, etc. are returned to their original positions. Tube, tape and other insulation materials have been used for safety reasons. The internal wiring has been designed to avoid direct contact with hot parts or parts under high voltage when using clamps or other tools.
- 3. The parts used in this device have special safety features such as flame-resistance and anti-voltage properties. When replacing parts, always use parts supplied from the factory.
- 4. After finishing operations make sure that all parts and wires have been returned to their original position and that there has been no deterioration of the area around the location that was worked on.
- 5. Be sure to use an earth band (wrist band) during repair and inspection.
- 6. Aluminum is used for this product as materials. During assembling and disassembling, be careful not to mistake the type of screws. Depending on the screw used, the screw hole is damaged and parts may be unable to be fixed properly.



2.SPECIFICATIONS

2-1. Product Specifications

BOARD TYPE	(Model na	ame)	Standard (N-20S)	Wide (N-20W)	
	Installa	tion method	Self-standing (T-shaped legs), or wall mounting		
Form	External dimensions (T-shaped legs*1)		W1480 × D675 × H1947*2 mm	W1980 × D675 × H1947* ² mm	
	Main unit weight		20 kg*₃	25 kg*³	
	T-shape	ed legs weight	10.5	5 kg	
	Panel size		H910 × W1300 mm H910 × W1800 mm		
	Effectiv	e reading size	H900 × W1280 mm	H900 × W1780 mm	
	Numbe	r of Pages	2		
	Paging		Endless in one directio	n (Horizontal scrolling)	
	Drive m	nethod	Sheet mo		
Description	Readin	g method	CIS (Contact I	mage Sensor)	
Board	Readin source	g illumination light	RGB,P1	NG,PDF	
	Readin	g resolution	Main scanning direction (vertical sheet sur Sub scanning direction (horizontal sheet su	, , , , ,	
	Readin	g time	Black & white: approx. 15 s Color: approx. 15 s	Black & white: approx. 21 s Color: approx. 21 s	
		File format	JPEG	format	
	Board	Screen size	Standard type: Standard 864 x 1248 dots Hijh-Resolution 1728 x 2496 dots. Wide type: Standard 864 x 1728 dots Hijh-Resolution 1728 x 3456 dots.		
	External	Туре	USB Flash memory		
Interface	External memory	Compatible FAT types	FAT 1		
		Interface	USB1.1 or USB2.0 *4		
	Network		RJ-45(10Base-T/100Base-TX)		
		Printing resolution	300 dpi or equivalent 16 or grayscale		
	Printing			-	
		Printer interface	Conforming to USB 2.0 standards Used for the timestamp and for file dating properties		
Added functions	Clock PC con	noction		÷ · ·	
		nection	Images can be acquired and device settings made via USB (using a browser) Input : AC100–240V/50–60 Hz, Max 0.75 A		
Power supply	AC pow	ver adapter	Output : DC 12 V, 3.0 A		
	PC con	sumption	In standby: 3W, During operation: 12W (not including printer)		
Operating	Temper	ature:	10-	-35°C	
conditions	Humidi	ty:	30–85% (No	o condensation)	
Miscellaneous	Ruled I	ines	50 mm cross-ruled squares		
Miscellarieous	Miscell	aneous	Dedicated markers (black, red, blue, and green)		
Operating environment	OS Web browser		Fully IBM PC/AT compatible computer equipped with standard USB XP (Home Edition /Professional Edition, Service Pack 2 or great Vista (32-bit version), Windows7 (32-bit/64-bit version) Or, Apple Macintosh computer with standard USB port Mac OS X 10.5 or greater		
			Windows :Internet Explorer 8.0 or greater Macintosh : Safari 5 or greater * Enable JavaScript		

Remarks

*1: The height is adjustable at 1747, 1847 and 1947 mm.

*3: Not including the weight of the printer.

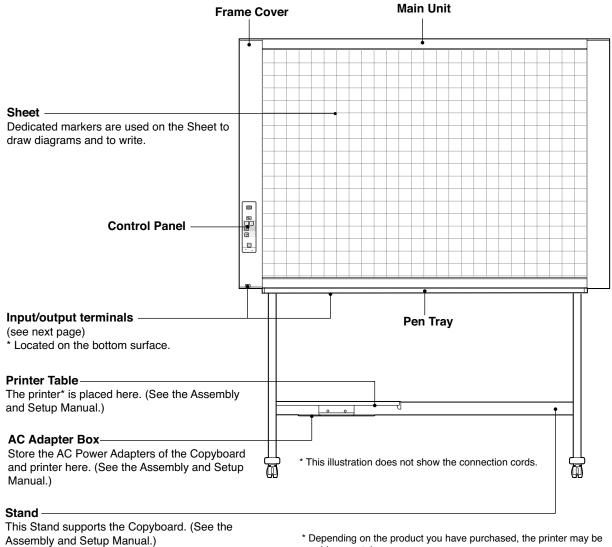
*4: USB Memory device not included. The memory capacity corresponds to 32GB or less.

• Please note that for quality improvement purposes, specifications and design are subject to change without prior notice.

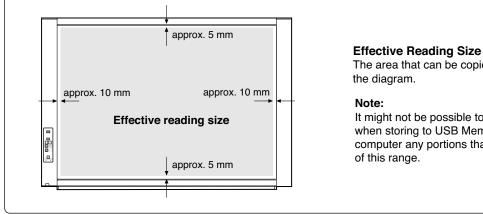
^{*2:} The value indicated for "H" (height) is the maximum height.

2-2. Names of the Parts

Front



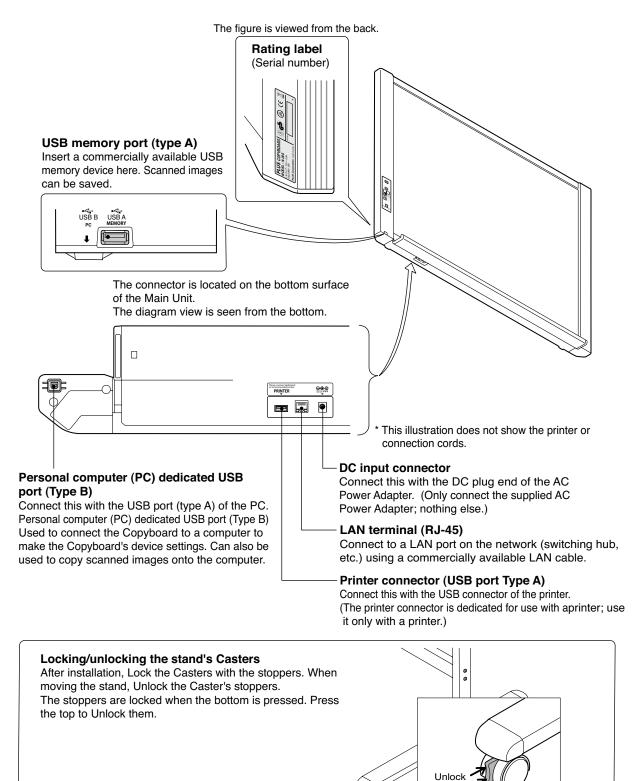
* Depending on the product you have purchased, the printer may be sold separately.



The area that can be copied is the gray area of

It might not be possible to print or copy when storing to USB Memory or personal computer any portions that are drawn outside

Input/output terminals



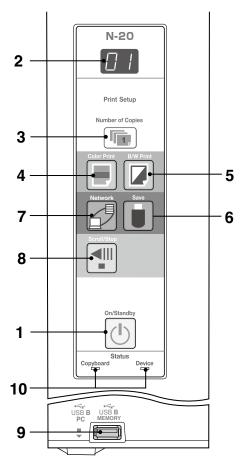
Lock

Caster

SPECIFICATION

2-3. Control Panel

When pressing a button, please press the center area (the square bulge). The button may not work if it is pressed on a corner.



1 ON/Standby (I) button

Turns the Copyboard's power on and off (standby mode).

2 Display window

The number of copies, operating status and error messages are displayed on the 7-segment LEDs.

3 Number of Copies/Test print button

Press this button to set the number of copies to be printed (max. 10). The number of copies is displayed on the display window.

* "P" is displayed during test printing.

4 Color Print (📕) button

The sheet is moved by 1 screen and read, and the image is printed in color in the number of copies indicated on the display window.

5 B/W Print (

The sheet is moved by 1 screen and read, and the image is printed in black and white in the number of copies indicated on the display window.

6 Save (📕) button (USB memory storage)

The sheet is moved by 1 screen and read, and the image is stored on the USB Memory device.

When connected to a computer by USB Cable, the image is stored in the Copyboard's internal memory.

7 Network button Scrolls and scans the sheet one screen's worth and saves the data in the folder for saving. The data is saved either on the copyboard or in a folder on

the FTP server, as previously set.

8 Scroll/Stop 📲 button

Scrolls the sheet one screen portion left, then stops automatically.

A press of this button while scrolling will stop the scrolling.

9 USB A Memory port (USB Type A)

Saves in commercially-available USB Memory images that have been read by the Copyboard.

10 Status

These indicators light or turn off to indicate errors with the Copyboard, USB Memory device or printer. (See table at left)

- Also check the error message on the display window. For error information and remedies, see page 8.

Display window	Meaning	USB indicator	Printer indicator	
EI	Printer problem	Off	Lit red	
EL	An unsupported printer is connected	0		
E2	USB Memory not recognized			
EB	USB Memory storage problem			
US	USB memory not connected	Lit red	Off	
FL	Memory is full			
U56 [*]	Warning that disconnection of USB memory has been forgotten			
ЕЧ	Reading error			
E5	System error	Flashing red	Flashing red	
EH	Time setting error	icu	ica	
<i>E8</i>	Security protection			
E9	Color printed prohibited			
<u> </u>	LAN cable disconnected			
L2	FTP server recognition error			
ЕJ	FTP server connection failure	Off	Off	
LY	FTP server writing failure			
15	Network or other error			
LE	Network setting reset error			
ΗE	Header/footer writing error			

* The letters "USB" scroll on the display.

SPECIFICATION

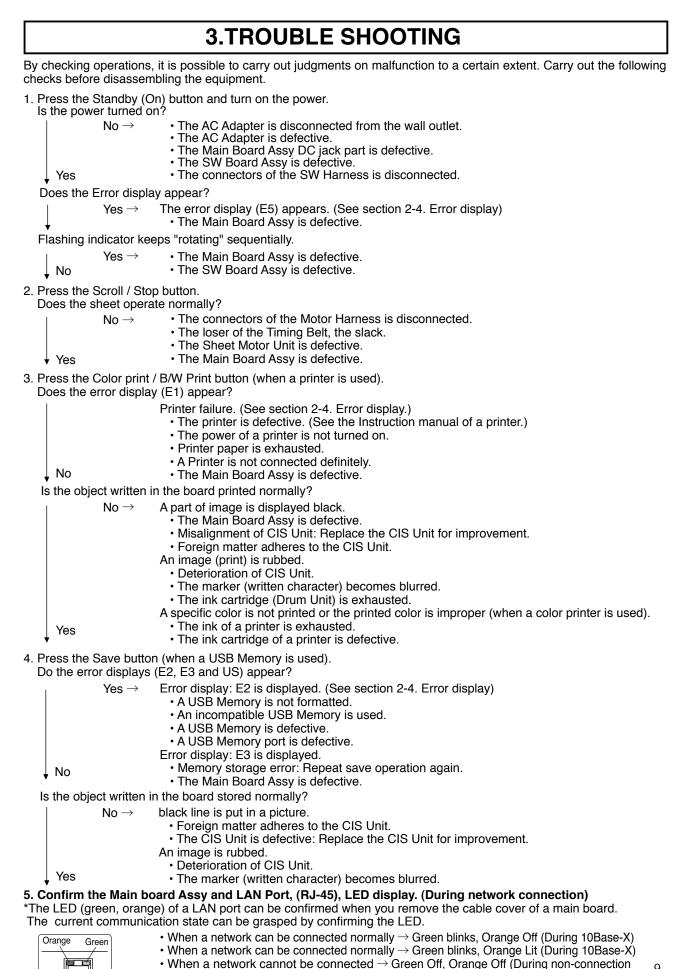
2-4. Meaninig of Error Messages

If any of the following flashing indications appear in the display window of the control panel, please check the matters described below. Error messages flash for 5 seconds, then stop flashing, remaining lit.



Error	Display Number	Problem an			
cted No printing paper Printer problem		 Is the printer cable connected? Is power being supplied to the printer? When the printer uses an AC Power Adapter, is the cable disconnected somewhere? 	Connect the printer properly and sw- itch on the printer power.		
		 Has paper been set in the printer? 	 Turn the power of the printer off and the en on again, and load the printer with A4 or Letter size paper. 		
		 Is the printer error indicator flashing (or lit)? 	 Read the printer instruction manual. 		
E2	USB Memory not recognized	 Is the USB Memory unformatted. 	 This unit supports the FAT and FAT 32 formats. Perform the formatting with the personal computer. 		
		 Is a USB Memory that is not supported by the Copyboard being used? 	 The file formats for USB memory devices that can be used on this copyboard are FAT and FAT32. 		
		Is the USB Memory device plugged in fully?	Please check the operation with a personal computer.		
		 Is the USB Memory damaged? 			
E3	USB Memory storage problem	 An error occurred during USB Memory st- orage. 	 Please perform USB Memory storage again. Do not insert or remove the USB Memory during processing. 		
EЧ	Reading problem	 There is a lighting fault of the reading light source, or a read signal error. 	Unplug the power plug from the power outlet and then plug it in again.		
E5	System error	There is a Memory or internal fault.	 Unplug the power plug from the power outlet and then plug it in again. 		
EB	Security protection	 The operation is set to "Disable" in the security settings. 	 Change the setting of the desired item to "Enable". 		
[Eg]	Color printing prohibited	 Coloring printing is set to "Disable". 	Change the color printing setting to "Enable".		
45	USB Memory not connected	 USB Memory device is not plugged into the Main Unit. 	 Plug the USB Memory device into the USB port. 		
FL	USB Memory is full	There is no available space.	Please delete unnecessary data using a personal computer.		
EL	An unsupported printer is conne- cted	 A printer that is not supported by the Copyboard has been connected. 	 Press the ON/Standby button and switch off the power. When a record is required, switch on the power and save to USB Memory. 		
EH	Time setting error	 An error has arisen when setting the time. 	 Start setting the date/time over from the beginning. 		
display i that dise	he "USB" letter is flowingWarning connection of USB has been forgotten	 Did you press the ON/Standby button while the USB Memory device was plugged into the Main Unit? 	 A USB Memory device is plugged into the main unit. When the USB Memory device is disconnected, the power will be switched off and the unit will enter the standby mode. 		
	LAN cable discon-	No cable is connected to the LAN terminal.	Connect the LAN cable properly.		
	nected FTP server recog-	The user name or password is wrong.	Input the correct user name and password.		
	nition error FTP server conne-	The FTP server's IP address is wrong.	Consult the network administrator then set the FTP server's IP address.		
	ction failure FTP server writing failure	There is no FTP storage folder.	Consult the network administrator then set the FTP storage folder.		
15	IP address not set, other network error	 An error other than one indicated by L1 to L4 has occurred. 	Unplug the power cord from the power outlet then plug it back in.		
LE	Network settings reset errorfailure	An error has occurred in resetting the network settings.	• The network reset number is wrong. Input the correct number and repeat the operation.		
HE	Header/footer writing errorfailure	 This occurs when the size of the inserted image is too large. 	Adjust the image then repeat the operation. operation.		

8 If the problem persists, please contact your nearby PLUS Corporation sales office, dealer, or store.



such as disconnection the LAN cable)

Normal operation

9

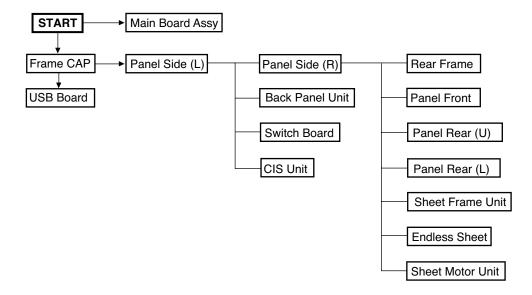
4-1. Tools Required

- Phillips screwdriver (+) No. 2
- Phillips screwdriver (-)

4-2. Caution

- See "1. Compliance of Safety Repair and Safety Inspection" before disassembling and assembling.
- Put on gloves so that you do not cut your hand at the sharp edge of a frame during disassembly and assembly.
- · See "7. Wiring Diagram" and "8. Parts List" for the parts name or wiring.
- The point especially requiring attention when handling parts or performing disassembly and assembly contains a caution. Be sure to follow this caution.

4-3. Disassembly and Assembly Procedures



4.4. Disassembly and Assembly

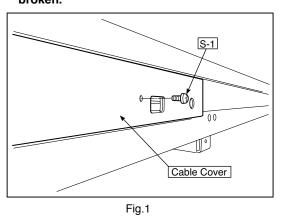
This section describes one example of disassembly and assembly procedures. For the actual operation, disassemble and assemble the required parts with reference to "4-3. Disassembly and Assembly Procedures".

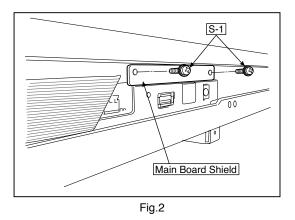
- * Remove the main set from the stand and proceed with the Endless Sheet. (Perform the operation on a mat.)
- * Remove the Pen Tray before performing the procedure below.

1) Remove the Main Board Assy. (See Figs. 1 and 2.)

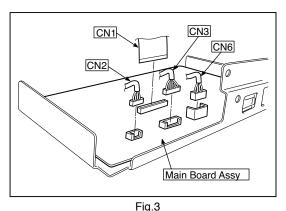
- 1.Remove the "S-1" screws shown in the figure 1 and then remove the Cable Cover.
- 2.Remove the "S-1" screws shown in the figure 2 and then remove the Main Board Shield.

Note: If a screw is tightened too tightly, a screw hole may be broken.





- 3.Disconnect the connector (CN1,2,3,6) connected to the Main Board Assy shown in the figure 3.(See Figs. 3 and 4,5.)4.Remove the"S-1" screw shown in the figure 4 and then
- remove the Main Board Assy from the Main Board Shield.
- 5. When replacing the Main Board Assy shown in the figure 5, insert the Main Board Assy from the oblique direction so that the parts mounted at the rear of the Main Board Assy are not damaged.



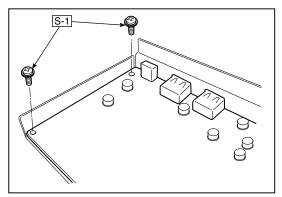


Fig.4

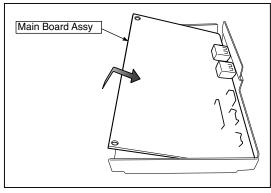
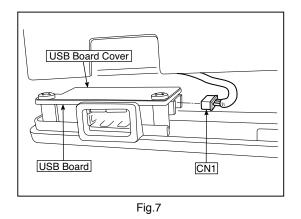
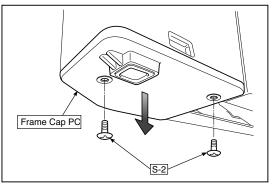


Fig.5

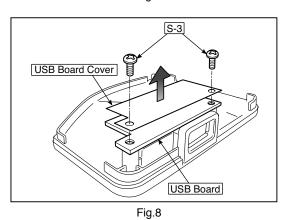
2) Remove the Frame Cap PC. (See Fig. 6.)

- 1.Remove the "S-2" screws shown in the figure 6 and then remove the Frame Cap PC.
- 2.Disconnect the connector connected to the USB Board shown in the figure 7.
- 3.Remove the "S-3" screws shown in the figure 8 and then remove the USB Board.
- **Note:**Fix an insulating sheet to the screws when installing the USB Board Cover.



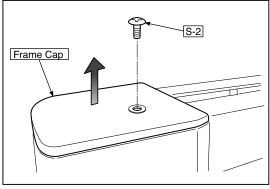






3) Remove the Frame Cap. (See Fig. 9.)

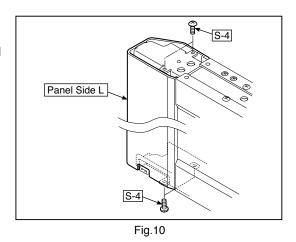
- 1.Remove the "S-2" screws shown in the figure 9 and then remove the Frame Cap.
- **Note:**An adhesive double-sided tape is required when replacing and removing the Frame Cap.





4) Remove the Panel side L. (See Fig. 10)

1.Remove the "S-4" screws shown in the figure10. Disconnect the connector connected to the Switch Board and then remove the Panel Side L.



2. Remove the Panel Side R. (See Fig. 11)1 Remove the "S-4" screws shown in the figure 11 and then remove the Panel Side R.

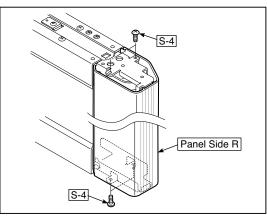
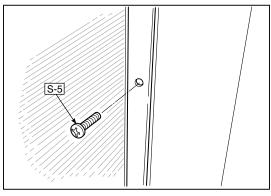


Fig.11

5) Remove the Back Panel Unit. (See Fig. 12.13)

- 1.Remove the "S-5" screws shown in the figure 12. Remove 2 screws which are located on both sides of the Back Panel center.
- 2.Slide the Back Panel and remove it while pushing the Back Panel Unit corner shown in the figure 13 forward.





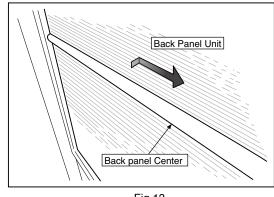


Fig.13

6) Remove the SW Board. (See Fig. 14.15)

- 1.Remove the SW Panel shown in the figure 14.
- 2.Slide the white protrusion (resin) at the rear of a SW Panel from the top of the SW Panel surface to the bottom while pushing it with fingers.

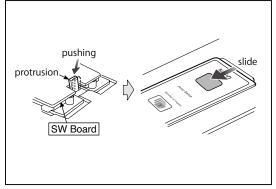


Fig.14

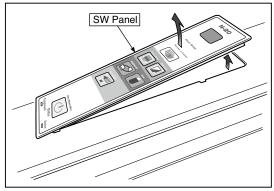


Fig.15

16 and then remove the SW Board.

Note: Pay attention to the wire drawing of the SW Cable 2.Slide the protrusion in the direction indicated by the arrow. during assembling.

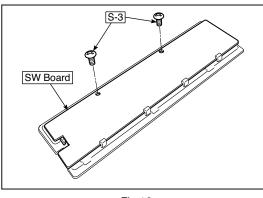


Fig.16

- 3.Remove the "S-3" screws shown in the figure 1.Put the protrusion from the bottom of the SW Panel when returning the SW Panel to the former position.
 - 3.Confirm that the hook of the SW Panel is completely put in the notch of the Panel Side (L).

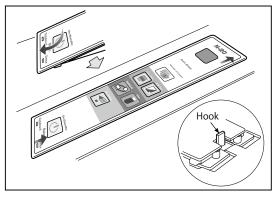
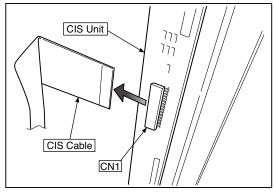


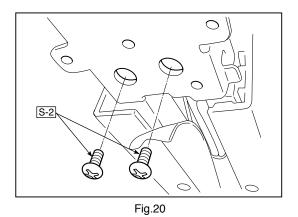
Fig.17

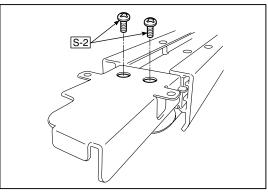
7) Remove the CIS Unit. (See Fig. 18.19)

- 1.Disconnect the CIS Cable (FFC), shown in the figure 16, from a connector.
- 2.Remove the "S-2" screws shown in the figures 19 and 20 and then remove the CIS Unit.
- * At that time, operate while holding it with hands so that the CIS Unit does not fall.
- Pay attention to the top and bottom when installing the CIS Unit.
- * The CIS Unit with a CIS Support (see Fig. 21) is located in the upper position.
- * When a CIS Unit is replaced, be sure to perform White level calibration. See page 20 3. White level calibration

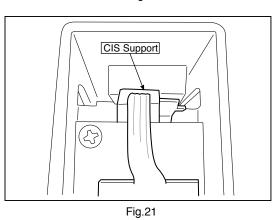






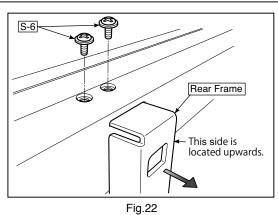






8) Remove the Rear Frame. (See Fig. 22)

1.Remove the "S-6" screws shown in the figure 22 and then remove the Rear Frame (two).



9) Remove the Panel Upper. (See Fig. 23)

1.Remove the "S-4" screws shown in the figure 23 and then remove the Panel Front.

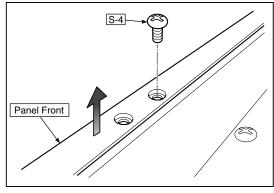
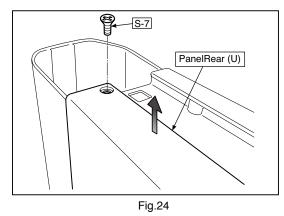
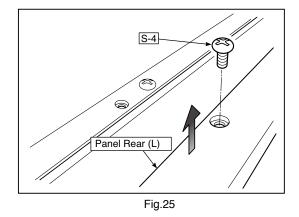


Fig.23

10) Remove the Panel Rear. (See Fig. 24.25)

- 1.Remove the "S-4" and "S-7" screws shown in the figure 24 and then remove the Panel Rear (U).
- 2.Remove the "S-4" and "S-7" screws shown in the figure 25 and then remove the Panel Rear (L).



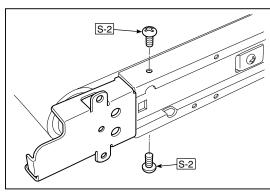


11) Replace the Endless sheet.

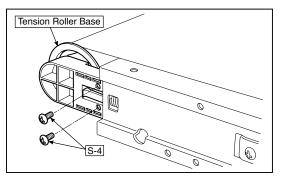
- 1.Remove the "S-2" screws shown in the figure 26.
- 2.Remove the Panel Plate shown in the figure 27.
- 3.Remove the stopper "S-4" screws in the (two upper and lower)
 - Tension Roller Bases shown in the figure 28.

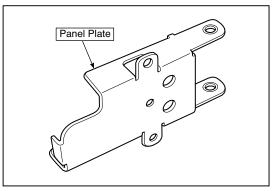
4.Push the Tension Roller Base block shown in the figure 29 into the inside and fix the Tension Roller Bases. **Notes:**

- Be careful not to damage or fold it when handing the Endless Sheet.
- · Replace it by two persons during replacement of the Endless Sheet.

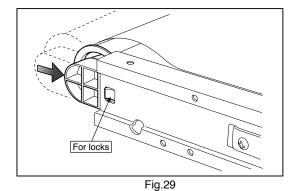




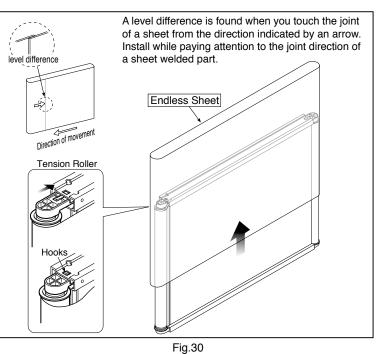












12) Replace the Sheet Motor Unit. (See Fig. 31)1. Remove the "S-4" screws shown in the figure 31.

2. Disconnect the connector of the Sheet Motor Unit.

Note: Be careful not to interfere with the Sheet Guide Bar

when installing the Sheet Motor Unit.

*Doing so causes vibration or strange noise to occur.

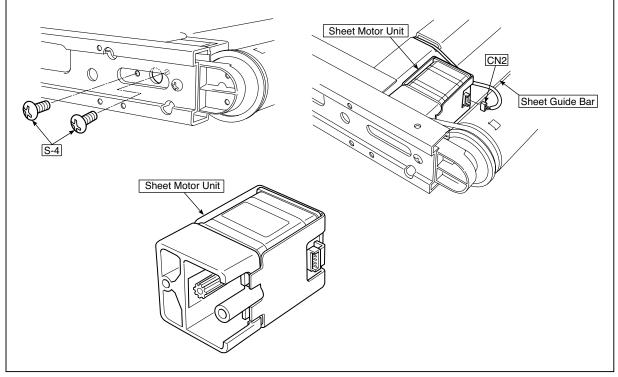


Fig.31

5. ADJUSTMENT

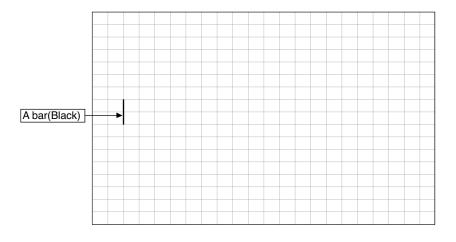
5-1. Calibration

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 of about 10 cm in the center of an Endless Sheet using a marker pen (black). (50-mm graph paper x 2 measures)

* 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>

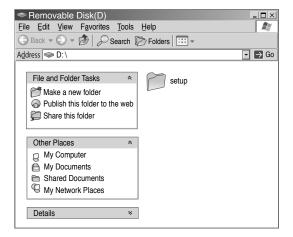
1) Calibration is started,<1. >
2) Initialization,·····<1.0>
3) The first vertical line is being detected,<1.1>
4) The vertical line after one cycle is being detected,<1.2>
5) When no vertical line can be detected, and<1.2.>
6) When calibration succeeds····· <aa></aa>

5-2. Changing the Internal Program of N-20 Main Set [How to rewrite program using PC]

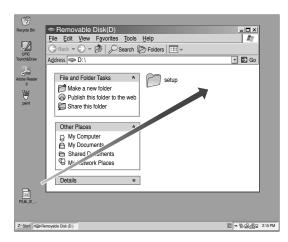
Equipment used

- 1) Firmware data for N-20
- 2) PC main set (OS: Windows XP/Windows Vista/Windows7)
- 3) USB Cable
- 1. Connect the PC and Copyboard main set using a USB Cable.
- 2. Insert the plug of an AC Adapter into the DC jack of the Copyboard main set and turn on the power.
- 3. A screen appears when the Copyboard is recognized as a removable disk.

If any screen is not opened, open the removable disk of the Copyboard using Explorer.



 Copy the firmware data "PX08H_N20_XX_XX. brn", to be updated, to the removable disk. (Drag & Drop)



- 5. The display window of the Copyboard main set automatically changes to "UP" blinking display.
- 6. Press the Save button. The display window changes to rotation display. A program then begins to be rewritten.
- 7. Rewrite operation is completed when the display window changes to "AA" blinking display.
- 8. Pull out the plug of the AC Adapter once, turn on the power gain, and then confirm the version of firmware in a test mode.

ADJUSTMENT

5-3. Test mode

1. Program version display

- Insert the plug of an AC Adaptor into the main set to apply the electric current (in the Standby state).
- Press the Save button three times while pressing and holding the Power (ON / Standby) button.
- Test / adjustment mode segment display: <A.P>
- Press the (Feed / Stop) button three times. Segment display: <03>
- The segment display changes every time you press the Save button.
- The first : Application major version
- The second : Application minor version
- The third : Boot loader major version
- The fourth : Boot loader minor version
- The fifth : Switch major version
- The sixth : Switch minor version
- The seventh : Date setting: US: North America: EU: Other than North America
- The eighth : Result indication: (Blinking) <AA> : Success <EE> : Failure
- * To terminate the segment display, press the Power (ON / Standby) button two times and set the display window to <01>.

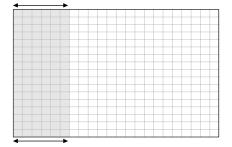
2. Printer test mode

- Insert the plug of an AC Adaptor into the main set to apply the electric current (in the Standby state).
- Press the Save button three times while pressing and holding the Power (ON / Standby) button.
- Test/adjustment mode segment display: <A.P>
- Press the Feed / Stop button eight times. Segment display: <08>
- · Press the Save button.
- Segment display appears after confirming a printing result: <AA> blinking
- Press the Power (ON / Standby) button. The current state returns to test mode <A.P>.
- * A test pattern (based on color-bar dot display) of yellow, magenta, cyan, and black is printed when a color ink jet printer is connected.

3. White level calibration

Preparation

- 1. Clean the six-measure area on the left of an endless sheet.
- 2. Feed the endless sheet manually in the left direction by about three measures.



- Insert the plug of an AC Adaptor into the main set to apply the electric current (in the Standby state).
- Press the Save button three times while pressing and holding the Power (ON / Standby) button.
- Test / adjustment mode segment display: <A.P>
- Press the (Feed / Stop) button sixteen times. Segment display: <16>
- Press the Save button.
- · Segment display: <AA> blinks after the endless sheet is moved by about half.
- Press the Power (ON / Standby) button. The current state returns to test mode <A.P>.

6.DEVICE SETTINGS

There are three ways to make the device settings: using the copyboard's operation buttons to make the settings ("CB Setup"), making the settings using a USB connection (simple network settings, and making the settings via LAN (detailed settings: "CB Setup" and "Network Setting".

6-1. CB Setup (operating the copyboard's buttons)

Basic setting operation

- · Check that the power is on (that the display window is lit).
- When in the "CB Setup" mode, the copyboard will return to the normal mode if no buttons are operated for 10 seconds, so operate the buttons within 10 seconds.



1 Switch to the CB Setup mode

While pressing the Power 🕛 button, press the Number of Copies in button, then release the Power () button. The copyboard switches to the CB Setup mode.

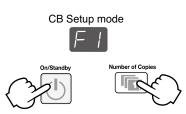
"F1" appears on the display window.

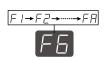
"F1" is the time setting.

2 Select "the function number", then press the Save **button**

Press the Number of Copies i button (the function switches each time the button is pressed, returning to F1 after FA) to select the desired function number, then press the Save button to set that function number.

For the item names of the function numbers, see the "Table of Function Numbers and Settings" on the following page. • When the Save 📋 button is pressed, the function number to be changed is set and a dot lights (ex.: "F6.").

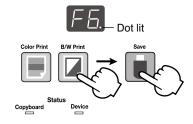








3 Select "the setting", then press the Save 🛢 button Press the Color Frint or B/W Print Dutton, check the setting, then press the Save 🛢 button to set. Check the setting according to whether the USB and Printer Status indicators are lit or off. See the "Table of Function Numbers and Settings" on the following page.



4 Exit the CB Setup mode

Press the Power () button. The copyboard returns to the normal mode.

The display window returns to the number of copies display.



DEVICE SETTINGS

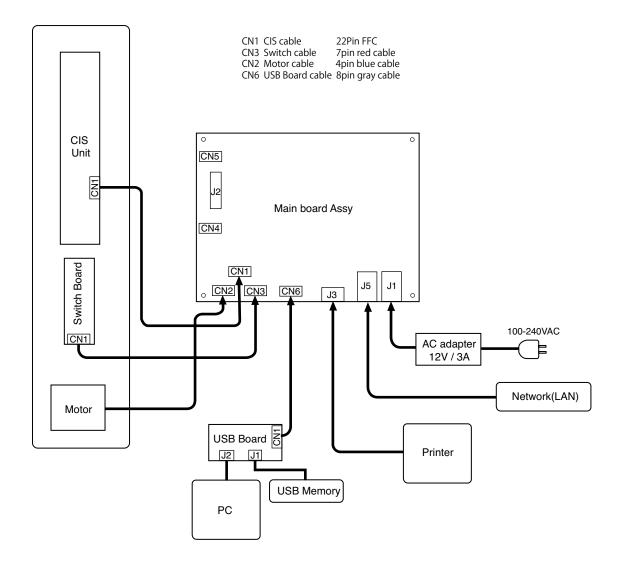
Table of Function Numbers and Settings

Function Number	Setting Item	Description	Setting	Status In	dicators
F I	Time Setting	The date and time are stamped on the printing paper and recorded in the file information when files are stored.	Year, month, day, hours, minutes	Not lit	
FZ	• This operates when the copyboard is connected to a		A4*	USB Lit)	Printer
		printer.	Letter	USB (Off)	Printer Lit)
	ratio) when printing.	Compressed*	USB (Lit)	Printer (Off)	
F3	Aspect Ra- tio Setting	the copyboard's sheet surface. Compressed: The image is compressed in the horizontal direction to the ratio of A4 or letter size paper for printing (ex: circles become ellipses).	Equal Ratio*	USB	Printer
Ey	Color Printing If this is set to [Invalid], color printing is not possible. Valid: When this is set, color printing is not possible.	Valid*	USB Lit)	Printer	
		Invalid	USB	Printer	
	Resolution Resolution Resolution: Standard: The vertical/horizontal size of the scanned image is set to 1/2. The amount of data is 1/4 that of when "High Resolution" is selected. High Resolution: The image file has the same resolution as the scanned mage (vertical/horizontal size of 1/1). The picture quality is better than when "Standard" is selected.	Standard: The vertical/horizontal size of the scanned image	Standard	USB Lit)	Printer
F5		High Resolution	USB	Printer (Lit)	
	Graphics File		JPEG*	USB Lit)	Printer
F5			PNG	USB (Off)	Printer
			PDF	USB Lit)	Printer (Lit)
	rmation registered on the copyboard. "Off": The header/footer information is not output.		Off*	USB Lit)	Printer
		"On": The header/footer information is output when printing	On	USB	Printer (Lit)
F7	Header/Footer	 Note: Headers and footers refer to the information at the top and bottom margins, respectively, of printed pages or images. Titles, company names or other characters or images can be inserted so that the same information is provided on all pages. For instructions on creating and registering headers and footers, see "Creating and Registering Headers and Footers". Depending on the type of printer, the colors may differ from the actual graphic image. 			

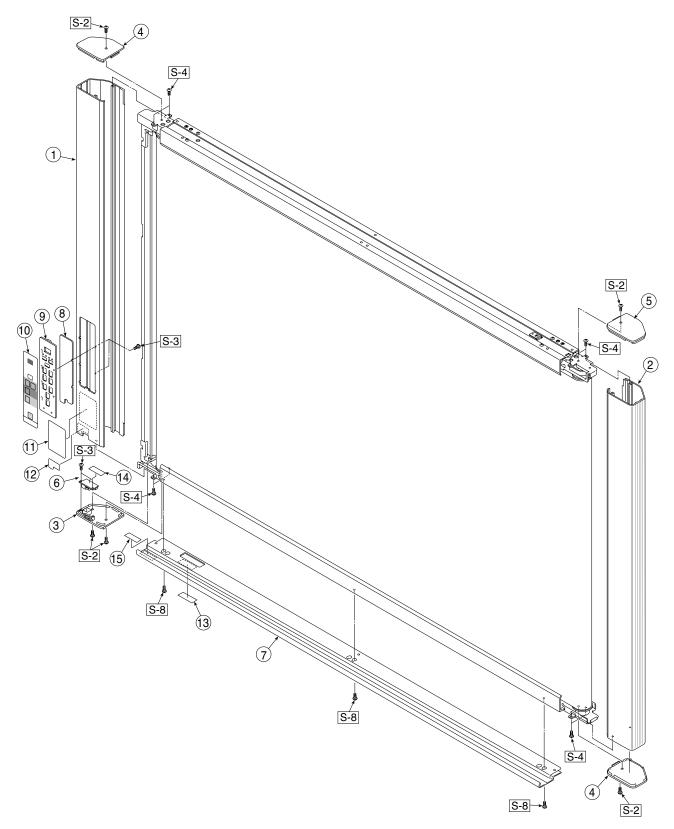
DEVICE SETTINGS

Function Number	Setting Item	Description Setting		Status Indicators	
		Setting of whether or not to notify the user that characters or diagrams drawn on the back side of the copyboard's		USB Lit)	Printer (Off)
FB	Erase Reminder	 sheet surface have not been erased. This is effective for confidential meetings, etc. Disable: The Erase Reminder function does not work. (Setting upon factory shipment) Enable: When the Power button is pressed to turn the power off, the display window on the copyboard's operation panel flashes and the copyboard automatically moves to the non-erased surface, after which the power turns off. The Erase Reminder function may not work properly due to dirt on the sheet adhesive or marker traces. 	Enable	USB (Off)	Printer (Lit)
			YYYY/M/D*	USB Lit)	Printer
F9	Time Day Stamp For- mat		DD-MMM-YYYY	USB (Off)	Printer (Lit)
	mat	MMM-DD-YYYY Jan-23-2011 01:23	MMM-DD-YYYY	USB Lit)	Printer (Lit)
FA	Reset Device Settings	 This restores the copyboard device settings at F2 to F9 to their defaults (settings upon factory shipment). The settings marked "*" are the defaults. (1) Select FA, then press the Save button. "FA." is displayed (with the dot lit). (2) Press the Save button again. The settings are reset. 			

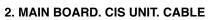
7. CABLE AND CABLE CONNECTION

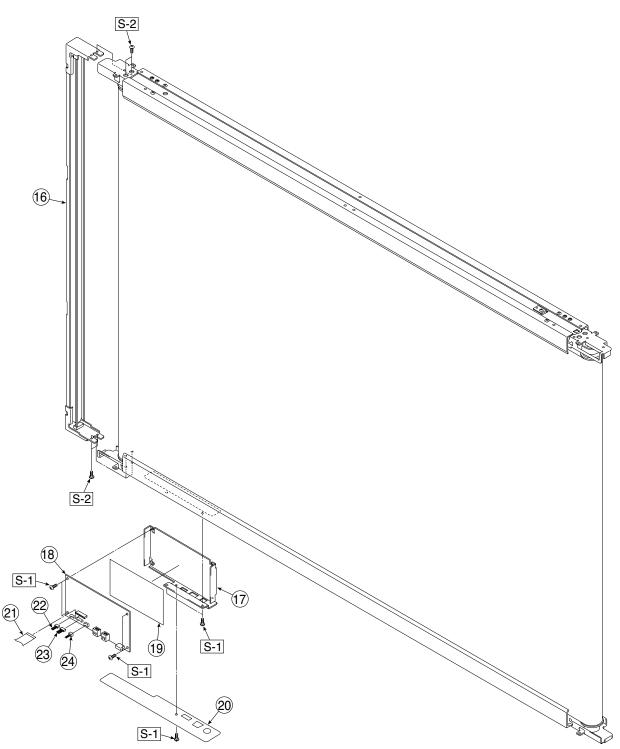


1. PANEL SIDE

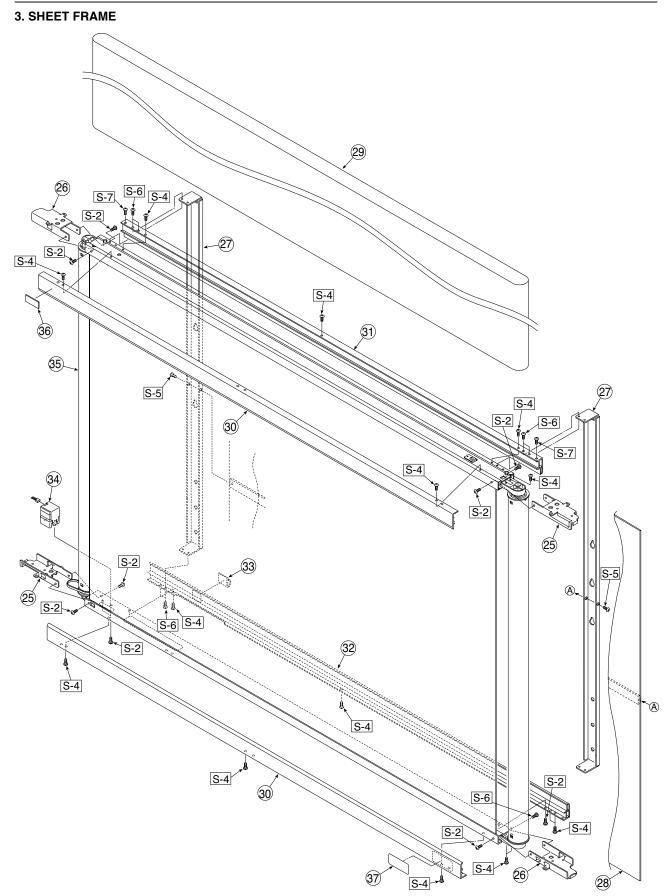


1. PANEL SIDE					
No	PARTS NAME	PARTS No.	Q' ty	REMARK	
1	Panel Side L	726110100	1		
2	Panel Side R	726110200	1		
3	Frame Cap PC	726120400	1		
4	Frame Cap B	726120600	2		
5	Frame Cap A	726120500	1		
6	USB Board Assy	726580200	1		
7	Tray Unit S	302009	1		
1	Tray Unit W	302010	1		
8	SW Board N-20 / C-20	726580600	1		
9	SW Panel	726121100	1		
10	SW Sheet N-20	726150300	1		
11	Status Guide Label (O/S) N-20	726461200	1		
12	USB Label	726152900	1		
13	I/F Label N-20 / N-204 / C-20	726153300	1		
14	USB Board Cover	726951200	1		
15	Caution Label (O/S)	726153800	1		



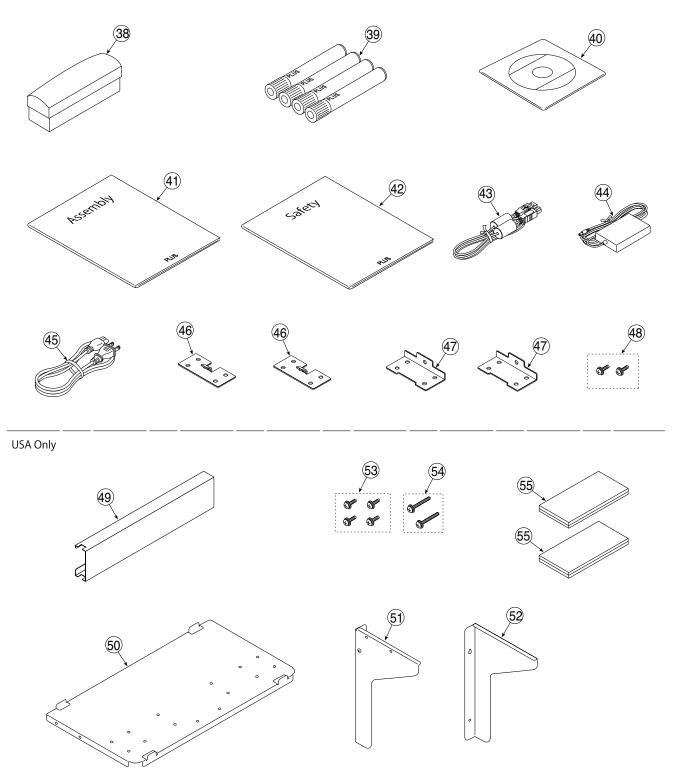


2. MAIN BOARD. CIS UNIT. CABLE						
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
16	CIS Unit	302008	1			
17	Main Board Shield	726135500	1			
18	Main Board N-20	726581100	1			
19	Main Board Sheet	726951100	1			
20	Cable Cover N-20 / C-20	726123200	1			
21	CIS Cable	726590200	1			
22	Motor Cable	726590100	1			
23	SW Cable	726590300	1			
24	USB Cable	726590500	1			

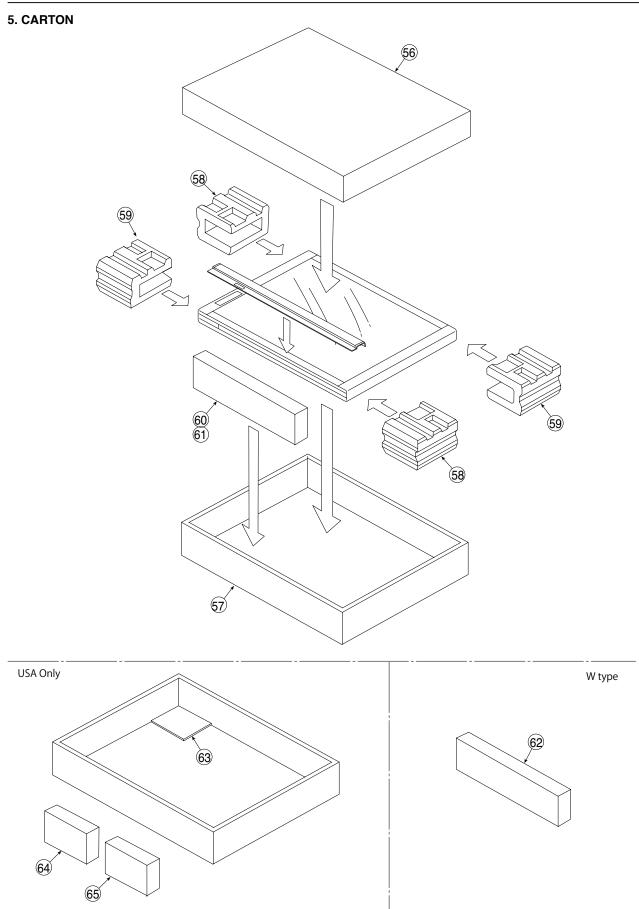


3. SHEET FRAME					
No	PARTS NAME	PARTS No.	Q' ty	REMARK	
25	Panel Plate A	726130100	2		
26	Panel Plate B	726130200	2		
27	Rear Frame	726310100	2		
28	Back Panel Unit S	302001	1		
20	Back Panel Unit W	302002	1		
29	Endless Sheet S M-18 / N-20	302005	1		
29	Endless Sheet W M-18 / N-20	302006	1		
30	Panel Front S N-20 / C-20	726116100	2	Upper-Lower common	
50	Panel Front W N-20 / C-20	726116800	2	Upper-Lower commor	
31	Panel Rear S Upper	726120900	1		
51	Panel Rear W Upper	726121200	1		
32	Panel Rear S Lower	726121000	1		
52	Panel Rear W Lower	726121300	1		
33	Cable Clamp	726129100	1		
34	Sheet Motor Unit	726090007	1		
35	Sheet Frame Unit S N-20	302003	1		
55	Sheet Frame Unit W N-20	302004	1		
36	Logo Label	726152700	1		
37	Cleaning Label	726153500	1		

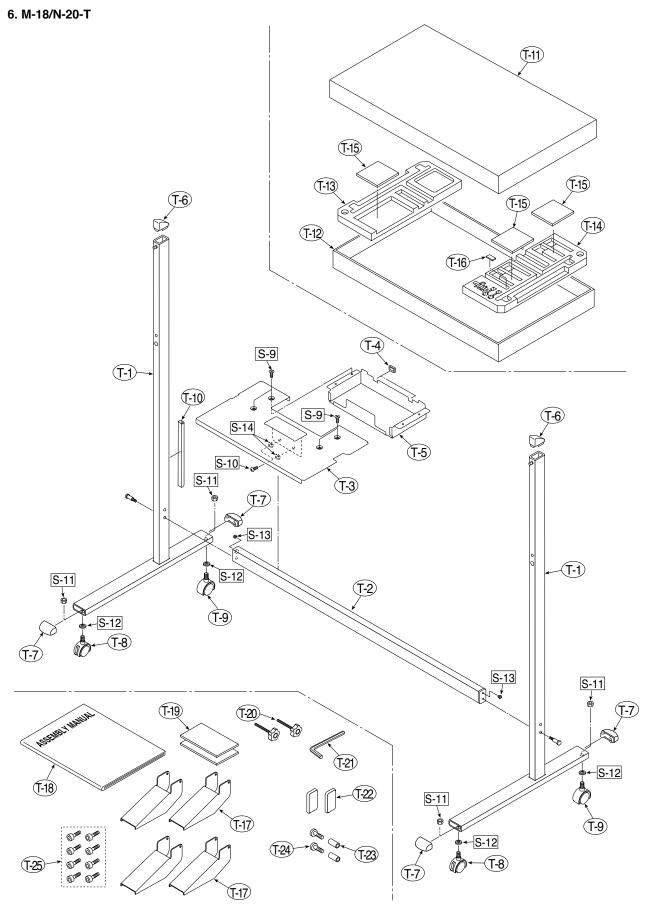
4. ACCESSORIES



4. AC	4. ACCESSORIES						
No	PARTS NAME	PARTS No.	Q' ty	REMARK			
38	Eraser 51-058	51058	1				
39	Marker Set	-	1	NO Parts Supply			
40	Manual CD N-20	726461700	1				
41	Assembly Manual N-20 / C-20 (O/S) (J)	726460700	1				
42	Safety Guide	726460800	1				
43	USB Cable	715258900	1				
44	AC Adapter	726590400	1				
	Power Cable (2.5m) BS	715259300	1				
	Power Cable (2.5m) CEE	715259200	1				
	Power Cable (2.5m) SAA	715259500	1				
45	Power Cable (2.5m) UL	715259400	1				
	Power Cable (2.5m) GB	-	1	NO Parts Supply			
	Power Cable (2.5m) EK	715261302	1	South Korea Only			
46	Wall Mount Plate Upper	726325100	2				
47	Wall Mount Plate Lower	726325200	2				
48	M4-12 Cross Recessed Binding Head	951241250	2				
49	Adapter Holder (Wall Mount)	-	1	USA Only			
50	Printer Platform (Wall Mount)	-	1	USA Only			
51	Printer Bracket L (Wall Mount)	-	1	USA Only			
52	Printer Bracket R (Wall Mount)	-	1	USA Only			
53	M4-8 Cross Recessed Binding Head	-	4	USA Only			
54	M4-20 Cross Recessed Binding Head	-	2	USA Only			
55	Fastener Layer Set 50×100	-	1	USA Only			



5. CA	5. CARTON						
No	PARTS NAME	PARTS No.	Q' ty	REMARK			
-	Carton Unit S N-20	302011	1				
-	Carton Unit W N-20	302012	1				
56	Carton S Upper	-	1	NO Parts supply			
	Carton W Upper	-	1	NO Parts supply			
	Carton S Lower	-	1	NO Parts supply			
57	Carton W Lower	-	1	NO Parts supply			
58	Packing A	-	2	NO Parts supply			
59	Packing B	-	2	NO Parts supply			
60	Accessary Box	-	1	NO Parts supply			
61	Spacer For Accessary Box	-	1	NO Parts supply			
62	Spacer For Wide Carton	-	0/1	W tupe Only			
63	Printer Table Stand Carton	-	1	USA Only			
64	Parts Pad L	-	1	USA Only			
65	Parts Pad R	-	1	USA Only			



6. M-18/N-20-T					
No	PARTS NAME	PARTS No.	Q' ty	REMARK	
T-1	T Stand (O/S)	-	2	No Parts Supply	
T-2	Side Bar (Stand) N-20	726332000	1		
T-3	Printer Table (Stand) N-20	726135900	1		
T-4	Edge Holder	723191100	2		
T-5	Adapter Holder	726136100	1		
T-6	Stand Cap (N-20 Upper)	726321200	2		
T-7	Stand Cap (N-20 Lower)	726321100	4		
T-8	Front Caster	714660400	2		
T-9	Back Caster	714660500	2		
T-10	Cable Cover (Stand) N-20	726129200	1	No Parts Supply	
-	Carton Unit (Stand) N-20 (O/S)	302013	1		
T-11	Stand Carton Upper	-	1	No Parts Supply	
T-12	Stand Carton Lower		1	No Parts Supply	
T-13	Stand Packing A	-	1	No Parts Supply	
T-14	Stand Packing B	-	1	No Parts Supply	
T-15	Stand Packing C	-	3		
T-16	Stand Packing D	-	1	No Parts Supply	
T-17	Stand Stabiliser	726334700	4		
T-18	Assembly Manual (Stand) N-20	726462600	1		
T-19	Velcro tape set (50x100)	722090012	1		
T-20	Fixed Knob	715204500	2		
T-21	Hexagon Wrench M3	959030050	1		
T-22	Screw Cap (Stand) N-20	726334500	2		
-	Screw set (Stand) N-20	726090014	1		
T-23	M5 Collar	-	2	No Parts Supply	
T-24	M5-40 Low Head Hexagon Bolt	-	2	No Parts Supply	
T-25	M5-8 Thin Head Hexagon Bolt	964250870	8		

7. SCREWS & WASHERS						
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
S-1	M3-6 Cross Recessed Pan Head Double Sems	952530610	7			
S-2	M4-8 Cross Recessed Low Head	961540810	19			
S-3	M3-8 P-tight Cross Recessed Bind Head	963230810	10			
S-4	M4-12 Cross Recessed Low Head	963941210	30			
S-5	M4-40 B-tight Cross Recessed Bind Head	963444010	1			
S-6	M4-10 Cross Recessed Pan Head Sems	962141010	8			
S-7	M3-8 P-tight Cross Recessed Frat Head	963330830	8			
S-8	M4-20 P-tight Cross Recessed Truss Head	963742010	3/4			
S-10	M5-40 Low Head Hexagon Bolt	964254070	2			
S-11	W3/8 Hexagon Nut	965216810	4			
S-13	M5-20 Hexagon Bolt	964352050	2			
S-14	M5 Spring Lock Washer	957350030	2			

PLUS Corporation Stationery Company