Captureboard

C-21S/C-21W

SERVICE MANUAL

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1. COMPLIANCE OF SAFE REPAIR

Be sure to read this Service Manual before providing services. In the PLUS Captureboard, 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.

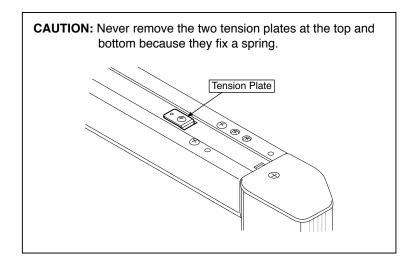
Pay attention to the following during service inspection.

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

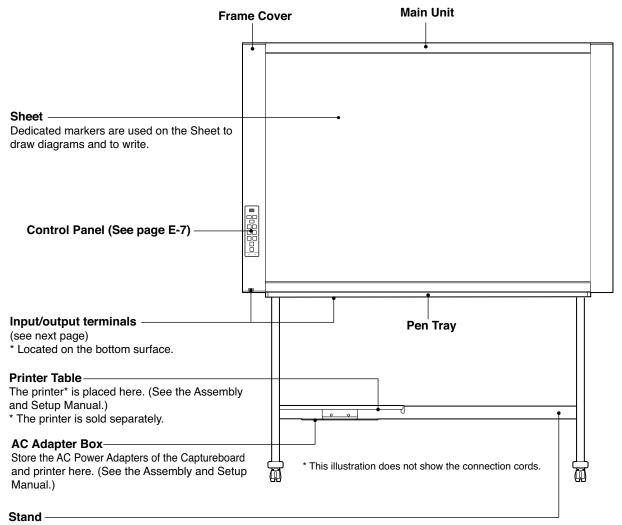
(Model na	ame)	Standard (C-21S)	Wide (C-21W)
Installa	tion method	Self-standing (T-shaped	l legs), or wall mounting
External dimensions (T-shaped legs*1)		W1480 × D675 × H1947*2 mm	W1980 × D675 × H1947*2 mm
Main ur	nit weight	20 kg*³	25 kg*³
T-shape	ed legs weight	12.5	s kg
Panel s	ize	H910 × W1300 mm	H910 × W1800 mm
Effectiv	e reading size	H900 × W1280 mm	H900 × W1780 mm
Numbe	r of Pages	2	
Paging		Bi-directional, endless	(Horizontal scrolling)
Drive m	ethod	Sheet mo	ovement
Reading	g method	CIS (Contact I	mage Sensor)
Reading source	g illumination light	RGB	LED
Readin	g resolution	Main scanning direction (vertical sheet sur Sub scanning direction (horizontal sheet su	
Readin	g time	approx. 10 s	approx. 14 s
	File format	,	PNG,PDF
Board	Screen size		8 x 1728 dots (fixed) x 1728 dots (fixed)
Cytornal	Туре	USB Flash Disk *4	
		•	
momory		USB2.0	
Network		RJ-45(10Base-T/100Base-TX)	
		TCP/IP (FTP, HTTP, DHCP, NetBIOS Name Service)	
		<u> </u>	•
Printina			
	Supported network		ted printer *5
Clock		Used for the timestamp	and for file dating properties
PC con	nection		settings made via USB (using a browser)
		Manufacturer: Li Tone Electronics Co., Ltd. Model: LTE36ES-S2-3	
AC power adapter		Input: AC100–240V/47–63 Hz, Max 0.75 A Output: DC 12V, 3A, Max 36 W Efficiency: 80%, Low 78.3% No-load: 0.075 W	
Power	consumption		ation: 12W (not including printer)
			-35°C
Humidit	ty:	30–85% (No	o condensation)
	-	50 mm cross	s-ruled squares
Miscella	aneous	Whiteboard markers (blac	
Operating Priving Meb browser Windows :Internet Explorer 8.0 or later Macintosh : Safari 9 or later		or later	
	Installar Extern (T-shape Main ur T-shape Panel s Effectiv Numbe Paging Drive m Reading Reading Reading Board External memory Network Printing Clock PC cont AC power Temper Humidit Ruled it Miscellar	(T-shaped legs*1) Main unit weight T-shaped legs weight Panel size Effective reading size Number of Pages Paging Drive method Reading method Reading illumination light source Reading resolution Reading time File format Screen size Type Compatible FAT types Interface Network Printing Printing Printing resolution AC power adapter Power consumption Temperature: Humidity: Ruled lines Miscellaneous	Installation method

Remarks

- *1: The height is adjustable at 1747, 1847 and 1947 mm.
 *2: The value indicated for "H" (height) is the maximum height.
 *3: Not including the weight of the printer.
 *4: USB flash drive not included. The memory capacity corresponds to 32GB or less.
- *5: Some printer may not be compatible.
 *6: SSLcommunications are not supported.
- *7: EX-FAT and NTFS are not compatible.
- Please note that for quality improvement purposes, specifications and design are subject to change without prior notice.

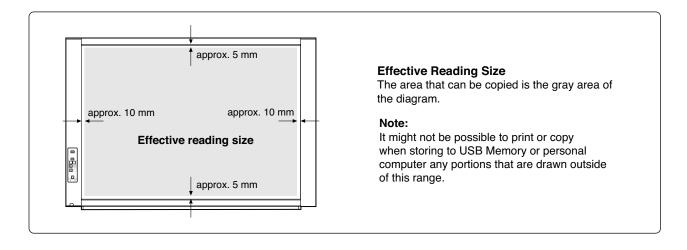
2-2. Names of the Parts

Front

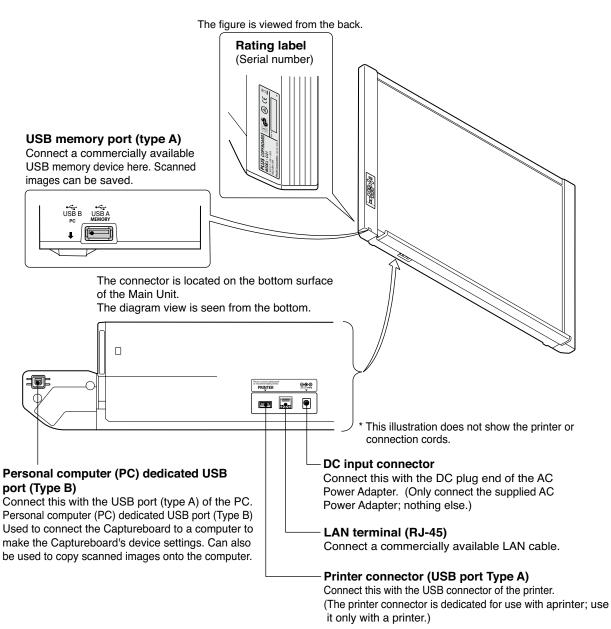


This Stand supports the Captureboard. (See the Assembly and Setup Manual.)

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



Input/output terminals

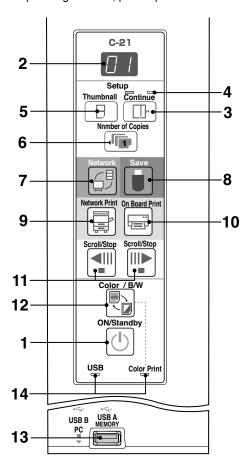


Locking/unlocking the stand's Casters After installation, Lock the Casters with the stoppers. When moving the stand, Unlock the Caster's stoppers. The stoppers are locked when the bottom is pressed. Press the top to Unlock them.

2-3. Control Panel

The control panel of the drawing refers to Model C-21S/C-21W.

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 network board'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 Continue (III) button

Used to select the number of screens when printing or storing multiple screens consecutively.

Model: C-21S/C-21W (single and double screens)

4 Consecutive printing number indicators

These light yellow to indicate the number of screens selected with the consecutive button.

5 Thumbnail (⊟) button

Used to select the layout for printing thumbnails of multiple screens on a single page.

The selected layout is indicated on the display window.

6 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.

7 Network Print (☐ 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 main unit or in a folder on the FTP server, as previously set.

8 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 main unit's internal memory.

9 Network Print (=) button

The sheet is moved by 1 screen and read, and the image is printed out to the network printer on the same network. The number of copies is displayed on the display window. *FTP supported printer.

10 On Board Print () button

The sheet is moved by 1 screen and read, and the image is printed out to the printer connected with the main unit. The number of copies is displayed on the display window.

11 Scroll/Stop (◄□□□) button

When the button is pressed, the sheet scrolls one screen's worth to the left (to the next screen) and stops automatically. When the III button is pressed, the sheet scrolls one screen's worth to the right (to the previous screen) and stops automatically. When pressed during scrolling, scrolling stops.

12 Color / B/W () button
Changes print color (Color / Monochrome).

Selection status is shown according to whether the Color Print status indicator is lit or off and how it lights.

Color: Green steady light

Monochrome: Off

13 USB A Memory port (USB Type A)

Saves in commercially-available USB memory images that have been read by the main unit.

The USB status indicator lights green when the USB memory device is recognized.

14 Status

Connection setting status is shown by turning on/off the indicator. For details, see pages E-22 and E-23.

SPECIFICATION

2-5. 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 ar	nd Solution	
EI	Printer not conne- cted No printing paper Printer	 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 pro itch on the printer power.	
problem		Has paper been set in the printer?	Turn the power of the printer off and load the printer with A4 or	and then on again, r Letter size paper.
		Is the printer error indicator flashing (or lit)?	 Read the printer instruction 	
F7	USB Memory not recognized	Is the USB memory unformatted.	This unit supports the FAT and Perform the formatting with the	FAT 32 formats. personal computer.
		 Is a USB memory that is not supported by the main unit being used? 	The file formats for USB memo can be used on this copyboard	ry devices that areFAT and FAT32.
		Is the USB memory device plugged in fully?	Please check the operation with	a personal computer.
		Is the USB memory damaged?	_	
[E3]	Memory stage problem	An error occurred during memory storage.	Please perform memory sto Do not insert or remove the USB mem	ory during processing.
EH	Reading problem	There is a lighting fault of the reading light source, or a read signal error.	Unplug the power plug from outlet and then plug it in a second control of the control of th	om the power again.
E_{5}	System error	There is a memory or internal fault.	Unplug the power plug fro outlet and then plug it in a	m the power gain.
EB	Security protection	The operation is set to "Disable" in the security settings.	Change the setting of the desire (Refer to the separate "C-21 series)	d item to "Enable". s Network Manual")
E9	Color printing prohibited	Coloring printing is set to "Disable".	Change the color printing se	tting to "Enable".
<u>U5</u>	USB memory not connected	USB memory device is not plugged into the main unit.	Plug the USB memory de USB port.	evice into the
FL	Memory is full	There is no available space.	Please delete unnecessal a personal computer.	ry data using
EL	An unsupported printer is connected	A printer that is not supported by the main unit has been connected.	Press the ON/Standby (I) b off the power. When a reco switch on the power and save	ord is required,
[EH]	Time setting error	An error has arisen when setting the time.	 Start over and set the p and time. 	roper date
I flowingWa	"USB" letter display is arning that disconnection nory has been forgotten	Did you press the ON/Standby (I) button while the USB memory device was plugged into the main unit?	A USB memory device is main unit. When the USB is disconnected, the power off and the unit will enter the	memory device will be switched
LI	LAN cable disconnected	No cable is connected to the LAN terminal.	Connect the LAN cable pr	operly.
[LZ]	FTP server recognition error	The account name or password in the FTP settings is wrong.	• Input the correct values.*1	
	FTP server connection failure	The FTP server's IP address is wrong.	Consult your network adm marke the proper settings	ninistrator, then
L4	FTP server writing failure	There is no FTP storage folder.	Consult your network adm marke the proper settings	ninistrator, then s.*1
[L5]	IP address not set, other network error	An error other than one indicated by L1 to L4 has occurred.	Unplug the power cord fro outlet then plug it back in.	m the power
[LL]	FTP printing error	The FTP printing error has occurred.	Check if the settings for F correct.*1	TP printing are
LE	Network settings reset error	An error has occurred in resetting the network settings.	The network reset number is a correct number and repeat the	wrong. Input the e operation.*1
HE	Header/footer writing error	This occurs when the size of the inserted image is too large.	Adjust the image then repeat	at the operation.

^{*1:} For instructions on adjusting the settings, see the separate "C-21 Series Network Manual".

Network-related errors indicate errors in access between the main unit and network. In some cases they are related to the network system, so consult the network administrator. If the problem persists, it may be due to a main unit malfunction. Contact your store of purchase.

3.TROUBLE SHOOTING

By checking operations, it is possible to carry out judgments on malfunction to a certain extent. Carry out the following checks before disassembling the equipment.

1. Press the Standby (On) button and turn on the power. Is the power turned on? $No \rightarrow$ The AC Adapter is disconnected from the wall outlet. The AC Adapter is defective. The Main Board Assy DC jack part is defective. The SW Board Assy is defective. The connectors of the SW Harness is disconnected. Yes Does the Error display appear? The error display (E5) appears. (See section 2-5. Error Messages) Yes \rightarrow The Main Board Assy is defective. Flashing indicator keeps "rotating" sequentially. $Yes \rightarrow$ · The Main Board Assy is defective. The SW Board Assy is defective. No 2. Press the Scroll / Stop button. Does the sheet operate normally? • The connectors of the Motor Harness is disconnected. $No \rightarrow$ • The loser of the Timing Belt, the slack. The Sheet Motor Unit is defective. · The Main Board Assy is defective. √ Yes 3. Press the Print button (when a printer is used). Does the error display (E1) appear? Printer failure. (See section 2-5. Error Messages) • The printer is defective. (See the Instruction manual of a printer.) The power of a printer is not turned on. · Printer paper is exhausted. · A Printer is not connected definitely. No The Main Board Assy is defective. Is the object written in the board printed normally? $No \rightarrow$ A part of image is displayed black. • The Main Board Assy is defective. Misalignment of CIS Unit: Replace the CIS Unit for improvement. Foreign matter adheres to the CIS Unit. An image (print) is rubbed. · Deterioration of CIS Unit. • The marker (written character) becomes blurred. • The ink cartridge (Drum Unit) is exhausted. A specific color is not printed or the printed color is improper (when a color printer is used). The ink of a printer is exhausted. Yes • The ink cartridge of a printer is defective. 4. Press the Save button (when a USB Memory is used). Do the error displays (E2, E3 and US) appear? Error display: E2 is displayed. (See section 2-5. Error Messages) Yes → A USB Memory is not formatted. · An incompatible USB Memory is used. · A USB Memory is defective. · A USB Memory port is defective. Error display: E3 is displayed. · Memory storage error: Repeat save operation again. No · The Main Board Assy is defective. Is the object written in the board stored normally? black line is put in a picture. $No \rightarrow$ · Foreign matter adheres to the CIS Unit. The CIS Unit is defective: Replace the CIS Unit for improvement. An image is rubbed. · Deterioration of CIS Unit. Yes · The marker (written character) becomes blurred.

5. Confirm the Main board Assy and LAN Port, (RJ-45), LED display. (During network connection)

*The LED (green, orange) of a LAN port can be confirmed when you remove the cable cover of a main board. The current communication state can be grasped by confirming the LED.



- When a network can be connected normally → Green blinks, Orange Off (During 10Base-X)
- When a network can be connected normally → Green blinks, Orange Lit (During 10Base-X)
- When a network cannot be connected → Green Off, Orange Off (During non-connection such as disconnection the LAN cable)

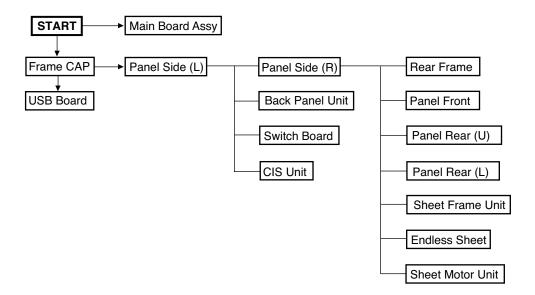
4-1. Tools Required

- 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.

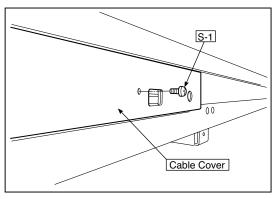


Fig.1

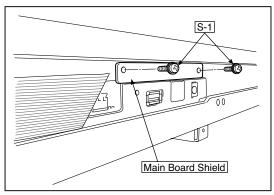


Fig.2

- 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.

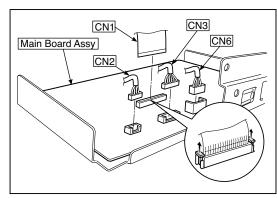


Fig.3

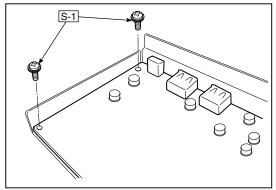


Fig.4

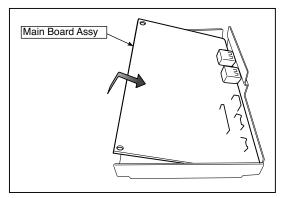


Fig.5

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.

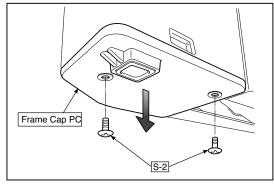


Fig.6

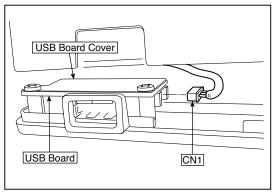


Fig.7

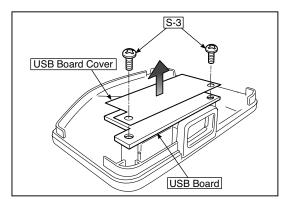


Fig.8

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.

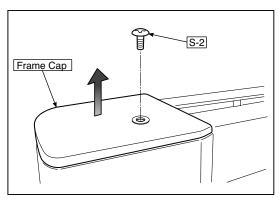


Fig.9

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

1.Remove the "S-4" screws shown in the figure 10.
Disconnect the connector connected to the Switch Board and then remove the Panel Side L.

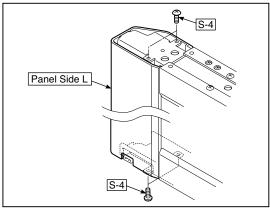
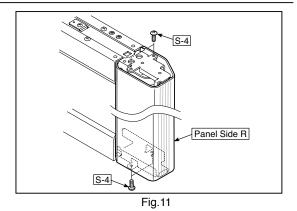


Fig.10

5) 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.



6) 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.

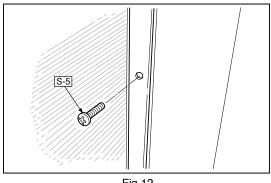


Fig.12

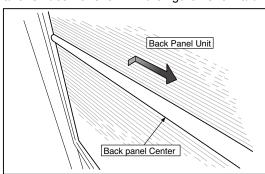


Fig.13

7) 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.

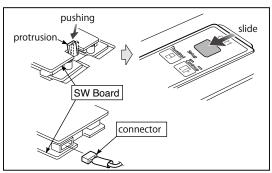


Fig.14

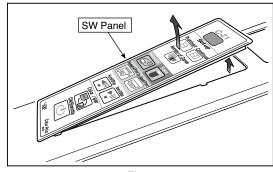


Fig.15

3.Remove the "S-3" screws shown in the figure 16 and then remove the SW Board.

Note: Pay attention to the wire drawing of the SW Cable during assembling.

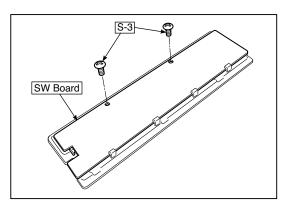


Fig.16

- 1.Put the protrusion from the bottom of the SW Panel when returning the SW Panel to the former position.
- 2.Slide the protrusion in the direction indicated by the arrow.
- 3.Confirm that the hook of the SW Panel is completely put in the notch of the Panel Side (L).

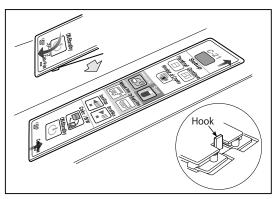


Fig.17

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

- 1. Disconnect the CIS Cable (FFC), shown in the figure 18, from a connector.
- 2.Remove the "S-2" screws shown in the figures19 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

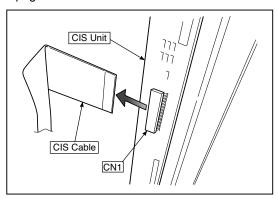


Fig.18

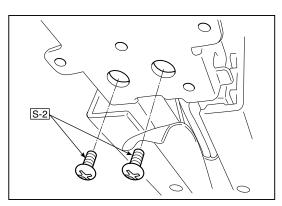


Fig.20

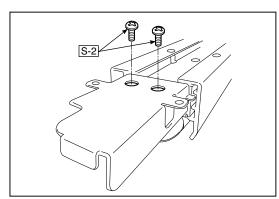


Fig.19

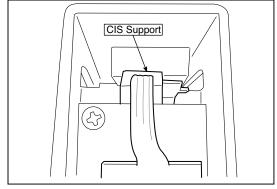


Fig.21

9) 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).

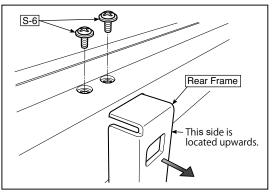


Fig.22

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

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

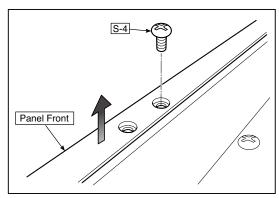


Fig.23

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

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

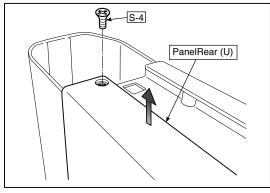


Fig.24

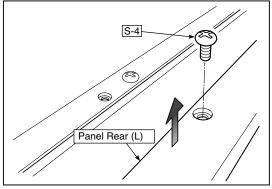


Fig.25

12) 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.

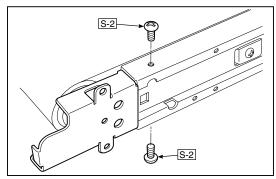


Fig.26

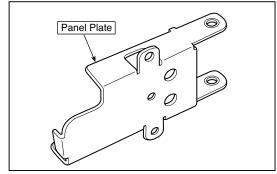


Fig.27

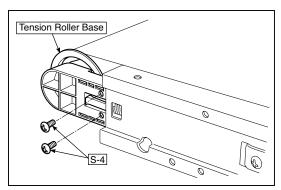


Fig.28

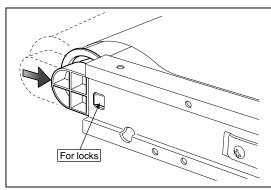


Fig.29

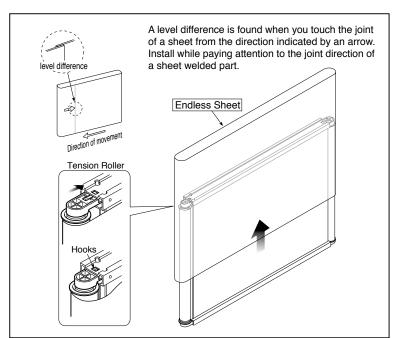


Fig.30

- **13) 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.

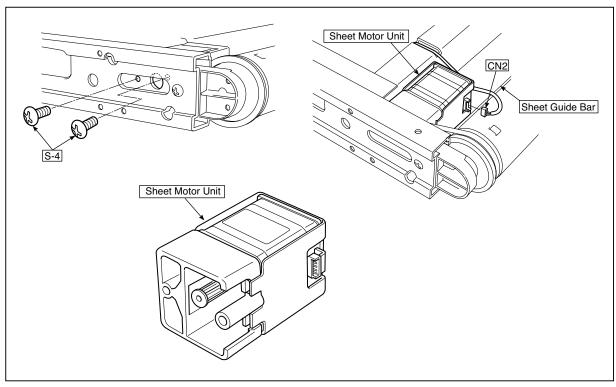


Fig.31

5. ADJUSTMENT

5-1. Calibration

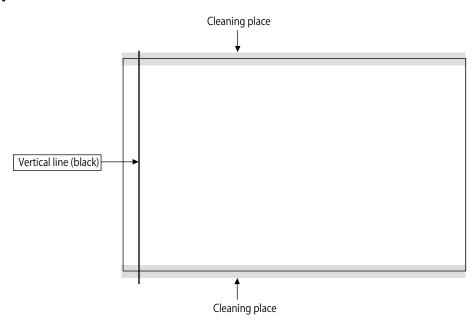
Calibration is required in the following cases.

- · 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 (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>

5-2. Changing the Internal Program of C-21 Main Set [How to rewrite program using PC]

Equipment used

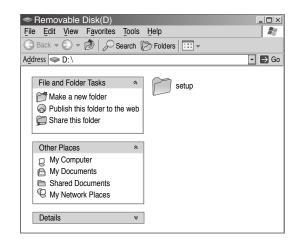
- 1) Firmware data for C-21(holder name: PX23H_C21_**_**.brn)
- 2) PC main set (OS: Windows 7/8/8.1/10)
- 3) USB Cable

Preparation

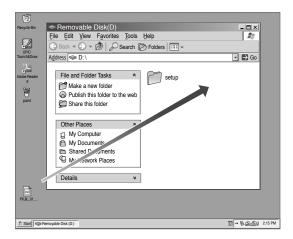
Save the extracted C-21 program holder on the desktop screen of PC used.

- 1. Connect the PC and Captureboard main set using a USB Cable.
- 2. Insert the plug of an AC Adapter into the DC jack of the Captureboard main set and turn on the power.
- 3. A screen appears when the Captureboard is recognized as a removable disk.

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



4. Copy the firmware data "PX23H_C21_XX_XX. brn", to be updated, to the removable disk. (Drag & Drop)



- 5. The display window of the Captureboard 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: Keypad Panel version (NFC)

The eighth : Date setting: US: North America: EU: Other than North America
The ninth : 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>.

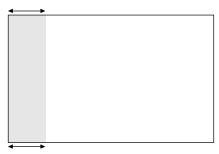
2. Printer test mode

- 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 area on the left of an endless sheet.
- 2. Feed the endless sheet manually in the left direction.



- 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>.
- *The Endless sheet does not move during White level calibration.

6.DEVICE SETTINGS

There are two ways to make the device settings: using the main unit's operation buttons to make the settings ("CB Setup") and making the settings via the web on the computer connected to a network.

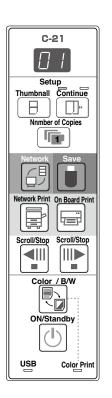
The description here provides operation using the main unit's buttons.

For using the main unit's connected to a network, refer to the separate "C-21 Series Network Manual".

CB Setup (Operating the main unit's buttons)

6-1. Basic setting operation

- · Check that the power is on (that the display window is lit).
- When in the "CB Setup" mode, the main unit's 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 ON/Standby (¹) button, press the Number of Copies labutton, then release the ON/Standby (¹) button. The main unit switches to the CB Setup mode. "F1" appears on the display window.

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

Press the Number of Copies button (the function switches each time the button is pressed, returning to F1 after FF) 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.

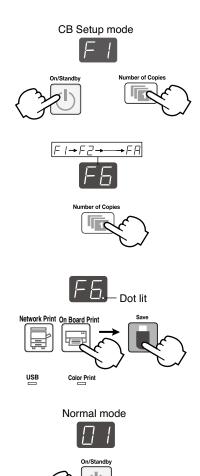
• When the Save button is pressed, the function number to be changed is set and a dot lights (ex.: "F6.").

3 Select "the setting", then press the Save ■ button

Press the Network Print or On Board Print button, 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 ON/Standby () button. The main unit returns to the normal mode. The display window returns to the number of copies display.



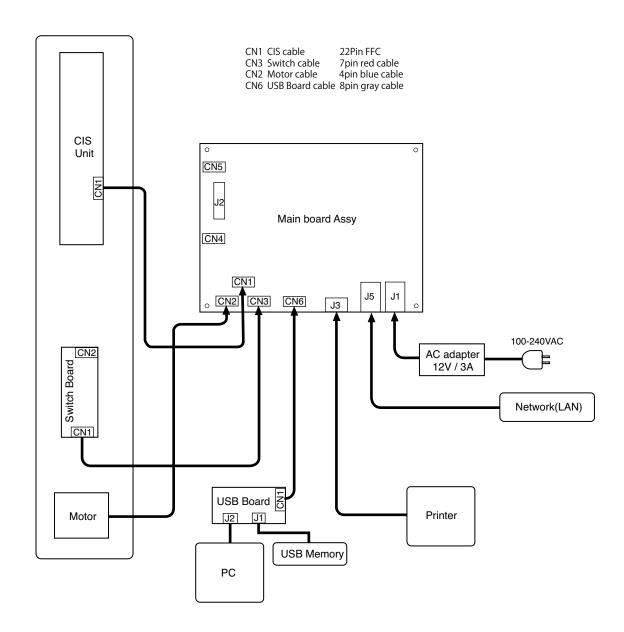
DEVICE SETTINGS

6-2. Table of Function Numbers and Settings

Function Number	Setting Item	Description	Setting	Status In	dicators
FI	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	
F2	Paper Size	Selection of whether to print in A4 paper size or letter size. • This operates when the main unit is connected to a printer.	A4	USB (Lit)	Printer (Off)
	. apo. 0.20		Letter	USB (Off)	Printer (Lit)
	Aspect Ra-	Selection of the image's vertical-to-horizontal ratio (aspect ratio) when printing. Equal Ratio: The image is printed with the same ratio as	Compressed	USB (Lit)	Printer (Off)
[- <u>-</u>]	tio Setting to Setting 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 (Off)	Printer (Lit)	
F4	If this is set to [Invalid], color printing is not possible. Valid: When this is set, color printing is possible.		Valid	USB (Lit)	Printer (Off)
	Printing Invalid: When this is set, color printing is not possible.	Invalid	USB (Off)	Printer (Lit)	
	Resolution	Selection of the image file's resolution. Standard: The vertical/horizontal size of the scanned image is set to 1/2. The amount of data is 1/4 that of	Standard	USB (Lit)	Printer (Off)
F5		Resolution when "High Resolution" is selected. High Resolution: The image file has the same resolution as the scanned image (vertical/horizontal size of 1/1). The picture quality is better than when "Standard" is selected.	High Resolution	USB (Off)	Printer (Lit)
	Graphics File Format	Scanned images are converted into JPEG (extension graphics File ".jpg"), PNG (extension ".png") or PDF (extension ".pdf")	JPEG	USB (Lit)	Printer (Off)
FB]			PNG	USB (Off)	Printer (Lit)
			PDF	USB (Lit)	Printer (Lit)
		rmation registered on the main unit.	Off	USB (Lit)	Printer (Off)
		"Off": The header/footer information is not output. "On": The header/footer information is output when printing and when saving image files.	On	USB (Off)	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. Header/footer information is registered on the network board via a network. For instruction on creating and registering headers and foodters, refer to the separate "C-21 Series Network Manual". Depending on the type of printer, the colors may differ from the actual graphic image. 			

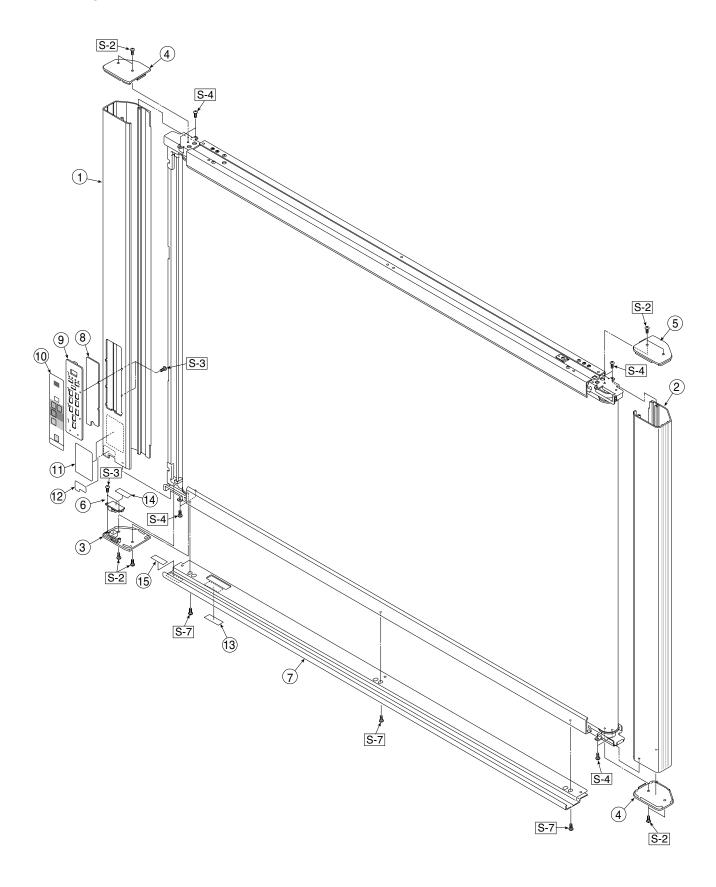
Function Number	Setting Item	Description	Setting	Status In	dicators
F8	Erase Reminder	Setting of whether or not to notify the user that characters or diagrams drawn on the back side of the main unit's sheet surface have not been erased. This is effective for confidential meetings, etc. Disable: The Erase Reminder function does not work. (Setting upon factory shipment) Enable: When the ON/Standby button is pressed to turn the power off, the display window on the main unit's operation panel flashes and the main unit 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.	Disable Enable	USB (Lit) USB (Off)	Printer (Off) Printer (Lit)
FQ	Selection of the format in which the date and time are displayed. Examples of displays: YYYY/M/D 2011/1/23 01:23		YYYY/M/D DD-MMM-YYYY	USB (Lit)	Printer (Off) Printer
	Stamp Format	DD-MMM-YYYY 23-Jan-2011 01:23 MMM-DD-YYYY Jan-23-2011 01:23	MMM-DD-YYYY	USB (Lit)	Printer (Lit)
	Enable. Setting for enabling printing from the computer	Disable	USB (Lit)	Printer (Off)	
FA		Enable: Setting for enabling printing from the computer *Install the driver for the printer connected to the captu-	Enable	USB (Off)	Printer (Lit)
		Selection of the network mode. Group: Setting for storing data on the main unit or FTP server.	Group	USB (Lit)	Printer (Off)
FE	Network mode	 Public: Setting for storing just single panel of data on the main unit one at a time and acquiring it via a browser or smartphone application. * After the selection is made, the system reboots when the Save button is pressed. * you set the network mode to "Public", the screen data saved in the main unit will be deleted. 	Public	USB (Off)	Printer (Lit)
FF	Reset Device Settings	This restores the main unit device settings at F2 to F9 to their defaults (settings upon factory shipment). (1) Select FF, 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



8. PARTS LIST

1. PANEL SIDE

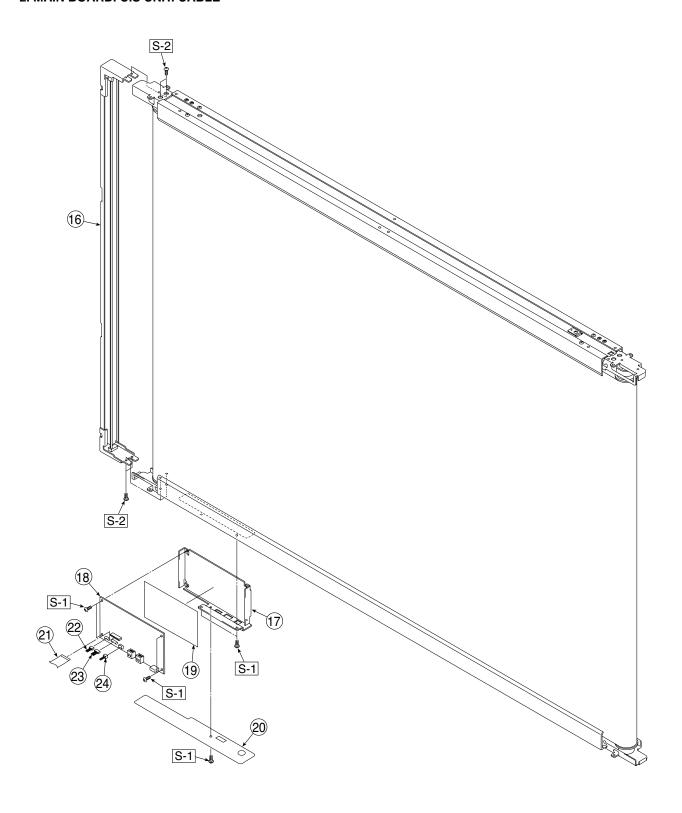


PARTS LIST 1. PANEL SIDE **PARTS NAME** PARTS No. Q' ty **REMARK** Panel Side L Panel Side R Frame Cap PC Frame Cap B Frame Cap A **USB Board Assy** Tray Unit S Tray Unit W SW Board N-21/N-214/C-21 SW Panel SW Sheet C-21 (O/S) Status Guide Label N-21 (OS) USB Label (O/S) I/F Label N-21 (O/S)

USB Board Insulator

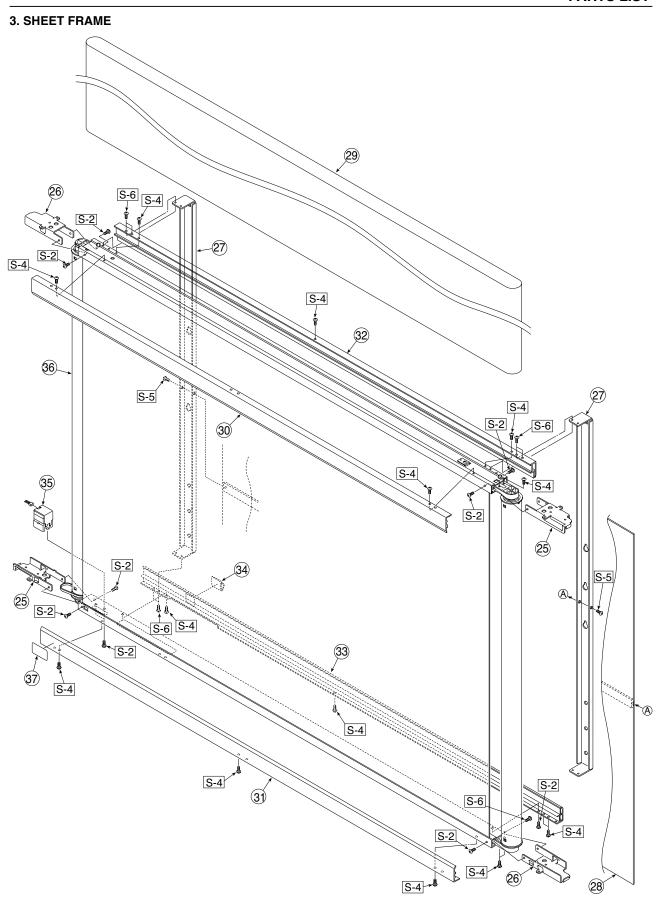
Caution Label N-21 (O/S)

2. MAIN BOARD. CIS UNIT. CABLE



PARTS LIST

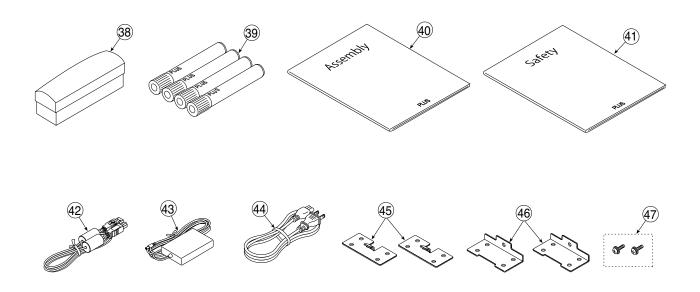
2. M <i>A</i>	2. MAIN BOARD. CIS UNIT. CABLE					
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
16	CIS Unit	302008	1			
17	Main Board Shield	726135500	1			
18	Main Board C-21	726581510	1			
19	Main Board Sheet	726951100	1			
20	Cable Cover N-20 / C-20	726123200	1			
21	CIS Cable	726590200	1			
22	Motor Cable	726590100	1			
23	SW Cable	726590300	1			
24	USB Cable	726590500	1			



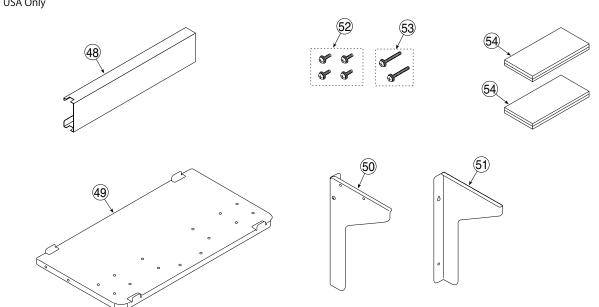
PARTS LIST

3. SH	3. SHEET FRAME					
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
25	Panel Plate A	726130100	2			
26	Panel Plate B	726130201	2			
27	Rear Frame	726310100	2			
28	Back Panel Unit S	302001	1			
20	Back Panel Unit W	302002	1			
	Endless Sheet S C-20/C-21	302001	1			
29	Endless Sheet W C-20/C-21	302002	1			
30	Panel Front S Upper N-21	726118700	1			
30	Panel Front W Upper N-21	726118800	1			
31	Panel Front S Lower N-21	726117500	1			
51	Panel Front W Lower N-21	726117600	1			
32	Panel Rear S Upper	726120900	1			
32	Panel Rear W Upper	726121200	1			
33	Panel Rear S Lower	726121000	1			
	Panel Rear W Lower	726121300	1			
34	Cable Clamp	726129100	1			
35	Sheet Motor Unit	726090007	1			
00	Sheet Frame Unit S M-18/N-20	302003	1			
36	Sheet Frame Unit W M-18/N-20	302004	1			
37	Cleaning Label N-21 (O/S)	726163400	1			

4. ACCESSORIES



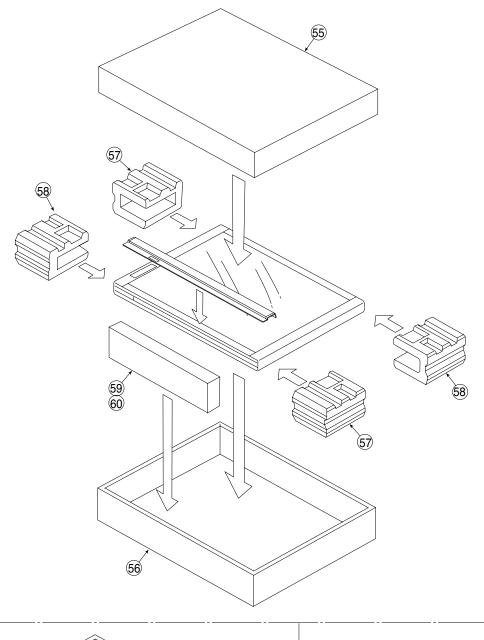
USA Only

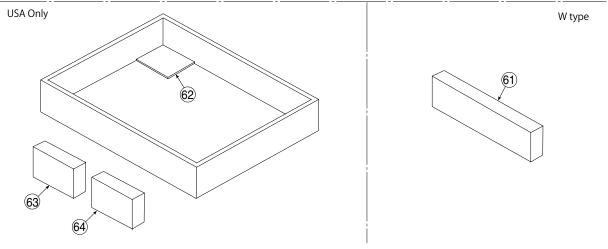


PARTS LIST

4. AC	4. ACCESSORIES					
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
38	Eraser	44369	1	Lot 100		
39	Marker Set	-	1	NO Parts Supply		
	Marker Black	423283	1	Lot 120		
-	Marker Red	423284	1	Lot 120		
-	Marker Blue	423285	1	Lot 120		
	Marker Green	423286	1	Lot 120		
40	Assembly Manual (O/S)	726460900	1			
41	Safety Guide	726460800	1			
42	USB Cable	715258900	1			
43	AC Adapter	726590400	1			
44	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) EK	715261302	1	South Korea Only		
	Wall Mount Plate Upper	726325100	2			
46	Wall Mount Plate Lower	726325200	2			
47	M4-12 Cross Recessed Binding Head	951241250	2			
48	Adapter Holder (Wall Mount)	-	1	USA Only NO Parts Supply		
49	Printer Platform (Wall Mount)	-	1	USA Only NO Parts Supply		
50	Printer Bracket L (Wall Mount)	-	1	USA Only NO Parts Supply		
51	Printer Bracket R (Wall Mount)	-	1	USA Only NO Parts Supply		
52	M4-8 Cross Recessed Binding Head	-	4	USA Only NO Parts Supply		
53	M4-20 Cross Recessed Binding Head	-	2	USA Only NO Parts Supply		
54	Fastener Layer Set 50×100	-	1	USA Only NO Parts Supply		

5. CARTON



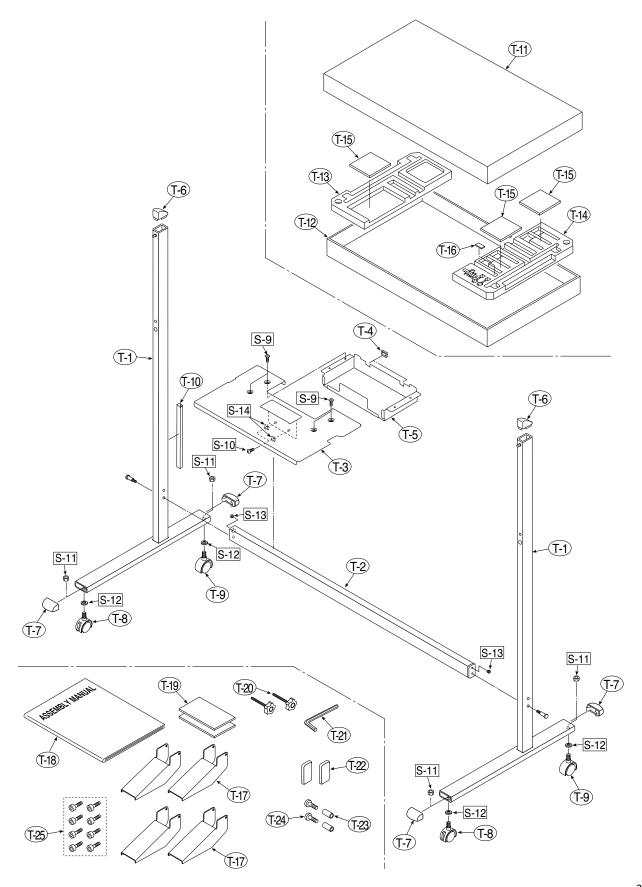


PARTS LIST

5. CARTON

No	PARTS NAME	PARTS No.	Q' ty	REMARK
	Carton Unit S N-21	302011	1	
	Carton Unit W N-21	302012	1	
55	Carton S Upper	-	1	
55	Carton W Upper	-	1	
56	Carton S Lower	-	1	
	Carton W Lower	-	1	
57	Packing A	-	2	
58	Packing B	-	2	
59	Accessary Box	-	1	
60	Spacer For Accessary Box	-	1	
61	Spacer For Wide Carton	-	0/1	W tupe Only
62	Printer Table Stand Carton	-	1	USA Only
63	Parts Pad L	-	1	USA Only
64	Parts Pad R	-	1	USA Only

6. M-18/N-20-T



PARTS LIST

6. M-	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	726332000	1			
1-2	Side Bar N-20-ST	726338000	1			
T-3	Printer Table (Stand Type)	726135900	1			
T-4	Edge Holder	723191100	2			
T-5	Adapter Holder	726136100	1			
T-6	Stand Cap Upper	726321200	2			
T-7	Stand Cap Lower	726321100	4			
T-8	Front Caster	714660400	2			
T-9	Back Caster	714660500	2			
T-10	Cable Cover (Stand)	726129200	1			
-	Carton Unit (Stand) M-18/N-20-T (O/S)	302013	1			
T-11	Stand Carton Upper (O/S)	-	1			
T-12	Stand Carton Lower (O/S)	-	1			
T-13	Stand Packing A	-	1			
T-14	Stand Packing B	-	1			
T-15	Stand Packing C	-	3			
T-16	Stand Packing D	-	1			
T-17	Stand Stabiliser	726334700	4			
T-18	Assembly Sheet (Stand) M-18/N-20-T (O/S)	726462600	1			
T-19	Fastener Layer Set 50x100	722090012	1			
T-20	Fixed Knob	715204500	2			
T-21	Hexagon Wrench	959030050	1			
T-22	Screw Cap	726334500	2			
-	Screw Unit (Stand) M-18/N-20	926090014	1	Set No. T-23-24		
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			

PARTS LIST

7. SC	7. SCREWS & WASHERS					
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
S-1	M3-6 Cross Recessed Pan Head Double Sems	952530610	5			
S-2	M4-8 Cross Recessed Low Head	961540810	19			
S-3	M3-8 P-tight Cross Recessed Bind Head	963230810	2			
S-4	M4-12 Cross Recessed Low Head	963941210	20			
S-5	M4-40 B-tight Cross Recessed Bind Head	963444010	2			
S-6	M4-10 Cross Recessed Pan Head Sems	962141010	10			
S-8	M4-20 P-tight Cross Recessed Truss Head	963742010	3/4	Stand: 3 Wide: 4		
S-9	M4-8 Cross Recessed Bind Head	951240850	4			
S-10	M5-40 Low Head Hexagon Bolt	964254070	4			
S-11	W3/8 Hexagon Nut	965216810	4			
S-12	No2-10 Flat Washer	957210210	4			
S-13	M5-20 Hexagon Bolt	964352050	2			
S-14	M5 Spring Lock Washer	957350030	2			