Copyboard

M-18S/M-18W M-17S/M-17W

SERVICE MANUAL

PLUS

CONTENTS

1. COMPLIANCE OF SAFE REPAIR	. 3
1-1. Cautions during Product Movement	3
1-2. Cautions during disassemblying and assembling .	3
2. SPECIFICATIONS	4
2-1. Product Specifications M-18	4
2-2. Product Specifications M-17	5
2-3. Names of the Parts	6
2-4. Control Panel	8
2-5. Meaning of Error Messages	9
3. TROUBLE SHOOTING	.10
4. DISASSEMBLY AND ASSEMBLY	11
4-1. Tolls Required	11
4-2. Caution	11
4-3. Disassembly and Assembly Procedures	11
4-4. Disassembly and Assembly	12

5. ADJUSTMENT	19
5-1. Calibration	19
5-2. Changing the Internal Program of M-18/M-17 Main Set	20
5-3. Test mode	21
6. DEVICE SETTING	22
7. CABLE AND CABLE CONNECTION	26
8. PARTS LIST	27
1. PANEL SIDE	27
2. MAIN BOARD CIS UNIT CABLE	29
3. SHEET FRAME	31
4. ACCESSORIES	33
5. CARTON	35
6. M-18/N-20-T	37
7. SCREWS & WASHERS	39

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.

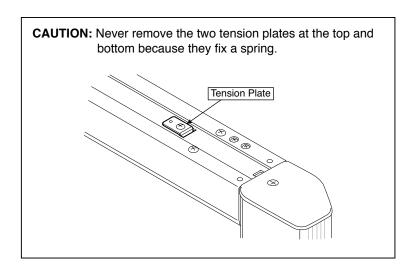
Pay attention to the following during service inspection.

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 name)			Standard (M-18S)	Wide (M-18W)	
	Installatio	n method	Self-standing (T-shaped legs), or wall mounting		
Form $(T-shaped legs^{*1})$ $W1480 \times D675 \times H1947^{*2} \text{ mm}$ $W1980 \times P675 \times H1947^{*2} \text{ mm}$		W1980 × D675 × H1947*2 mm			
	Main unit	weight	20 kg* ³	25 kg*³	
	T-shaped	legs weight	10.5	5 kg	
	Panel siz	9	H910 × W1300 mm	H910 × W1800 mm	
	Effective	reading size	H900 × W1280 mm	H900 × W1780 mm	
	Number of	of Pages	2		
	Paging		Endless in one direction	on (Horizontal scrolling)	
	Drive met	thod	Sheet mo		
	Reading I	method	CIS (Contact Ir	mage Sensor)	
Board	Reading i source	llumination light		LED	
	Reading	resolution	Main scanning direction (vertical sheet su Sub scanning direction (horizontal sheet su	rface) 1.92 dots/mm (50 dpi or equivalent) urface) 1.92 dots/mm (50 dpi or equivalent)	
	Reading	time	Black & white: approx. 15 s Color: approx. 15 s	Black & white: approx. 21 s Color: approx. 21 s	
		File format		format	
	Board	Screen size		8 x 1728 dots (fixed) x 1728 dots (fixed)	
		Туре	USB Flash memory		
Interface	External memory	Compatible FAT types	FAT 16, 32		
		Interface	USB1.1 or USB2.0 *4		
		Printing resolution		equivalent	
	Printing	No. print colors	-	ayscale	
		Printer interface	Ç	SB 2.0 standards	
Added functions	Clock			nd for file dating properties loss of power. Battery life: Approx. 00 hours)	
	PC conne	ection	Images can be acquired and device settings made via USB (using a browser)		
Power supply	AC powe	r adapter		50–60 Hz, Max 0.75 A C 12 V, 3.0 A	
	PC consu	mption	In standby: 3W, During operat	tion: 12W (not including printer)	
Operating	Temperat	ure:	10–3	35°C	
conditions	Humidity:		30–85% (No	condensation)	
Miscellaneous	Ruled line			ruled squares	
meeenaneeue	Miscellaneous Dedicated markers (black, red, blue, and green)			ck, red, blue, and green)	
Operating environment	OS		Microsoft Windows 2000 Professional (Service Pack 4 or greater)/ XP (Home Edition /Professional Edition, Service Pack 2 or greater). 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		
	Web browser		Windows :I nternet Explorer 6.0 or greater Macintosh : Safari 4 or greater * With Adobe Flash Player 10 installed		

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 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.

SPECIFICATION

2-2 Product Specifications

BOARD TYPE (Model name)			Standard (M-17S)	Wide (M-17W)	
	Installat	ion 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 un	it weight	15 kg*³	20 kg*³	
	T-shape	d legs weight	12.5	-	
	Panel si	ze	H910 × W1300 mm	H910 × W1800 mm	
	Effective	e reading size	H900 × W1280 mm	H900 × W1780 mm	
	Number	of Pages	2		
	Paging		Endless in one direction (Horizontal scrolling)		
	Drive m	ethod	Sheet mo		
	Reading	g method	CIS (Contact Ir	nage Sensor)	
Board	Reading source	g illumination light	RGB	LED	
	Reading	g resolution	Main scanning direction (vertical sheet sur Sub scanning direction (horizontal sheet su		
	Reading	g time	Black & white: approx. 15 s	Black & white: approx. 21 s	
		File format	JPEG format (or	r PDF format *4	
	Board	Screen size		8 x 1728 dots (fixed) < 1728 dots (fixed)	
	External memory	Туре	USB Flash memory		
Interface		Compatible FAT types			
		Interface	USB1.1 or USB2.0 *5		
	Printing	Printing resolution	300 dpi or equivalent		
		No. print colors	Monochrome		
		Printer interface	Conforming to USB 2.0 standards		
Added functions	Clock		Used for the timestamp an (Includes backup battery for when there is a	nd for file dating properties loss of power. Battery life: Approx. 00 hours	
	PC conr	nection	Images can be acquired and device settings made via USB (using a browser)		
Power supply	AC pow	er adapter		50–60 Hz, Max 0.75 A 5 12 V, 3.0 A	
	PC cons	sumption	In standby: 3W, During operation: 12W (not including printer)		
Operating	Tempera	ature:	10–3	85°C	
conditions	Humidit	y:	30–85% (No condensation)		
Miscellaneous	Ruled li	nes	50 mm cross-	ruled squares	
meeenaneeue	Miscella	aneous	Dedicated markers (black, red, blue, and green)		
Operating environment	OS		Microsoft Windows 2000 Professional (Service Pack 4 or greater)/ XP (Home Edition /Professional Edition, Service Pack 3 or greater)/ Vista (32-bit version), Windows7 (32-bit/64-bit) Or, Apple Macintosh computer with standard USB port Mac OS X 10.5 or greater		
	Web browser		Windows :I nternet Explorer 8.0 or greater Macintosh : Safari 5 or greater *Enable JavaScript. * With Adobe Flash Player 10 installed		

Remarks

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

*3: Not including the weight of the printer. *4: North America Only.

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

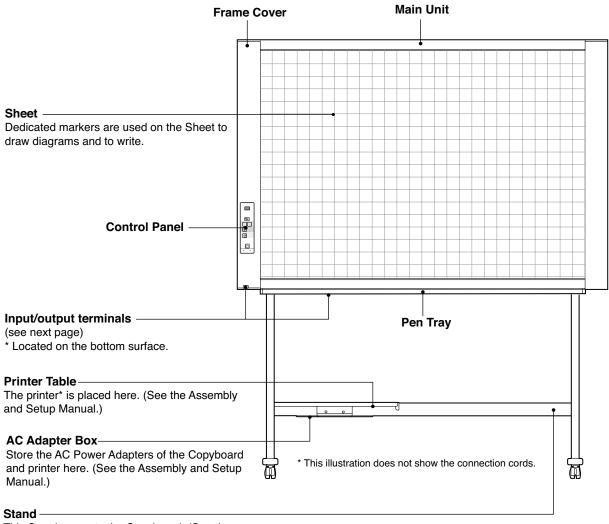
• Please note that for quality improvement purposes, specifications and design are subject to change without prior notice.

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

SPECIFICATION

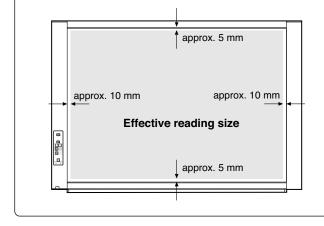
2-3. Names of the Parts

Front



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

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

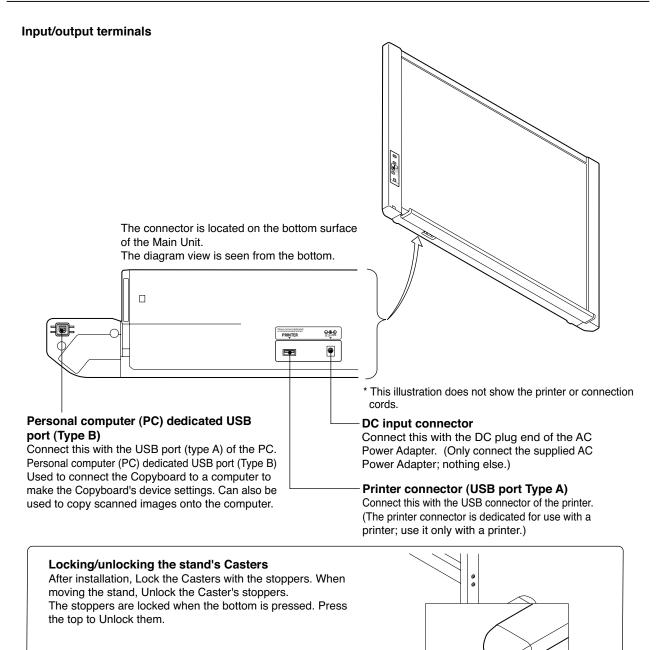


Effective Reading Size

The area that can be copied is the gray area of the diagram.

Note:

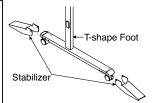
It might not be possible to print or copy when storing to USB Memory or personal computer any portions that are drawn outside of this range.



Alignment of the screw holes of the T-shape Feet with those of the stabilizers.

Slide the stabilizers on the T-shaped feet to align with the holes.

CAUTION : To prevent toppling, be sure to install the stabilizers at each of the 4 locations. The toppling of this machine could cause bodily injury or damage the machine.

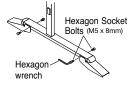


Secure the stabilizers on the T-shape feet by Hexagon Bolts using Hexagon wrench. Attach the 4 stabilizers on the feet.

Caster

Unlock Lock

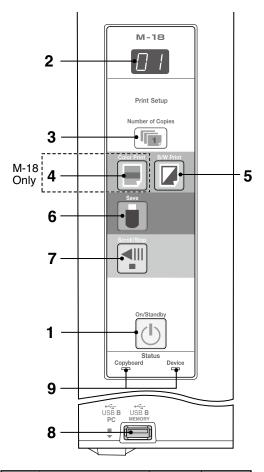
CAUTION : Do not lift the stand to work on it. This may lead to toppling or bodily injury.



SPECIFICATION

2-4. 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.



Display window	Meaning	Copyboard indicator	Device indicator
ΕI	Printer problem		
E2	USB Memory not recognized		
ЕЭ	USB Memory storage problem		
ЦS	USB Memory not connected	Off	On
FL	USB Memory is full		
EL	An unsupported printer is connected		
U56	Warning that disconnec- tion of USB Memory has been forgotten		
ЕЧ	Reading problem		
ES	System error	On	Off
EH	Time setting error		

* The letters "USB" scroll on the display.

- 1 ON/Standby () button Turns the Copyboard's power on and off (standby mode).
- 2 Display window The number of copies, operating

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.

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 () button

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 Scroll/Stop 📲 button

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

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

8 USB A Memory port (USB Type A)

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

9 Status

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

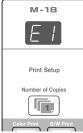
Also check the error message on the display window.

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 N	lumber	Problem an	d Solution	
Frinter not connected 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 switch on the printer power. 	
		 Has paper been set in the printer? 	• Turn the power of the printer off and then 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.	
	lemory cognized	 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? 	 Please see our home page for information about USB Memories that can be used with the Copyboard. 	
		 Is the USB Memory device plugged in fully? Is the USB Memory damaged?	 Please check the operation with a personal computer. 	
EB USB M storag proble		An error occurred during USB Memory storage.	 Please perform USB Memory storage again. Do not insert or remove the USB Memory during processing. 	
EH Readir proble		• There is a read signal error.	 Unplug the power plug from the power outlet and then plug it in again. The CIS Unit is defective. The Main Board Assy is defective. 	
ES Syster	m error	There is a Memory or internal fault.	 Unplug the power plug from the power outlet and then plug it in again. 	
	M e m o r y nnected	USB Memory device is not plugged into the Main Unit.	Plug the USB Memory device into the USB port.	
	lemory is	There is no available space.	Please delete unnecessary data using a personal computer.	
	supported r is conne-	 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.	
に 同 error	setting	 An error has arisen when setting the time. 	Start setting the date/time over from the beginning.	
When the "USB" letter display is flowingWarning that disconnection of USB Memory 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.	

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

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.

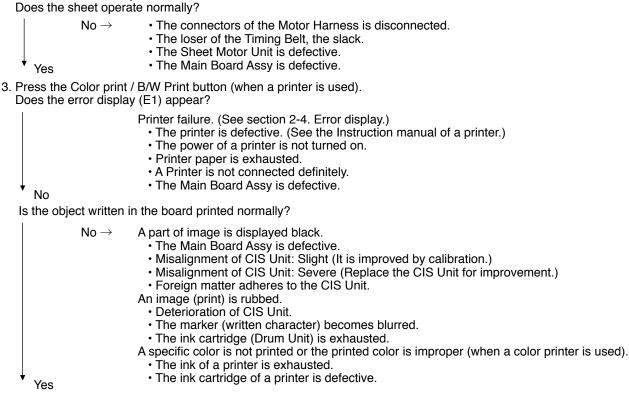
Yes

Does the Error display appear? \bigvee Yes \rightarrow The error display (E5) appears. (See section 2-4. Error display) • 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.



4. Press the Save button (when a USB Memory is used). Do the error displays (E2, E3 and US) appear?

Yes \rightarrow Error display: E2 is displayed. (See section 2-4. Error display)

	163×100 alopidy. Let is displayed. (Occ scolin L 4. Lift) alopidy)
	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.
•	• The Main Board Assy is defective.
ls	the object written in the board stored normally?
	 No → black line is put in a picture. Dust adheres to the CIS Unit. Misalignment of CIS Unit: Slight (It is improved by calibration.) The CIS Unit is defective: Serious (Replace the CIS Unit for improvement.)
	An image is rubbed.
	Deterioration of CIS Unit.

• The marker (written character) becomes blurred.

Normal operation

1

10

Yes

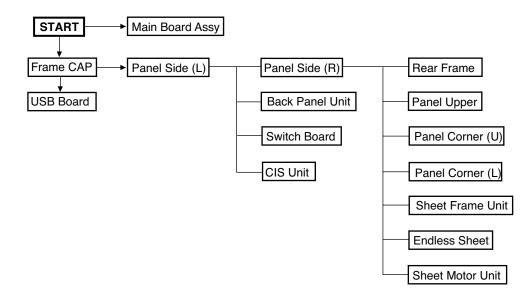
4-1. Tools Required

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

4-2. Caution

- See "1. Compliance of Safety Repair" 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. Cable and Cable connection" 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



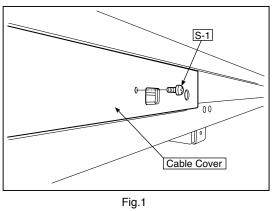
4.4. Disassembly and Assembly

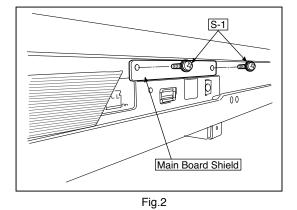
This section describes one example of disassembly and assembly procedures. For the actual operation, disassemble and assemble the required parts with reference to "4-3. Disassembly and Assembly Procedures".

- * 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.

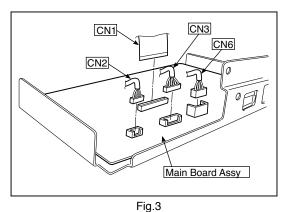
1) Remove the Main Board Assy. (See Figs. 1 and 2.)

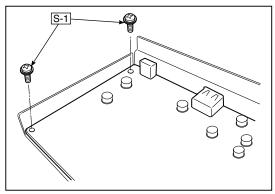
- 1.Remove the "S-1" screws shown in the figure 1 and then remove the Cable Cover.
- 2.Remove the "S-1" screws shown in the figure 2 and then remove the Main Board Shield.
- Note: If a screw is tightened too tightly, a screw hole may be broken.





- 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 from the Main Board Online insert the Main Board Assy from the oblique direction so that the parts mounted at the rear of the Main Board are not damaged.







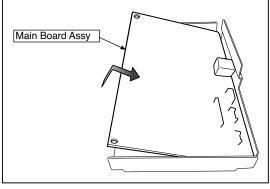
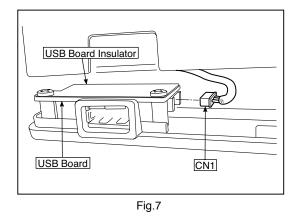
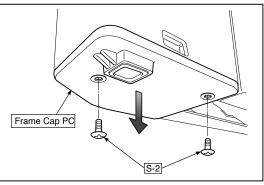


Fig.5

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.







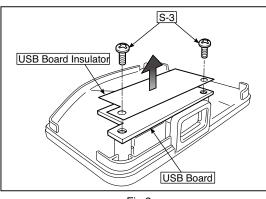
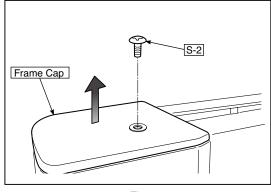


Fig.8

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

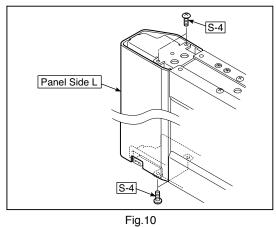
- 1.Remove the "S-2" screws shown in the figure 9 and then remove the Frame Cap.
- Note:An adhesive double-sided tape is required when replacing and removing the Frame Cap.





4) Remove the Panel side L. (See Fig. 10.11)

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.
 - 1 Remove the "S-4" screws shown in the figure 11 and then remove the Panel Side R.

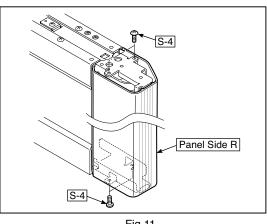
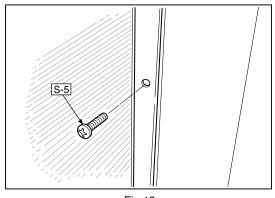


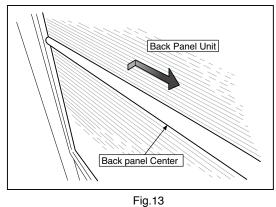
Fig.11

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

- 1.Remove the "S-5" screws shown in the figure 12. Remove two 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.



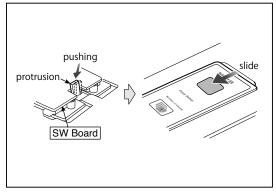


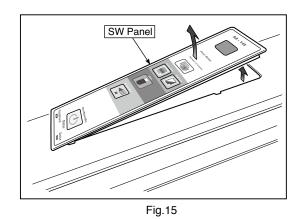


i ig.

6) Remove the SW Board. (See Fig. 14.15.16.17)

- 1.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.
- 2.Remove the SW Panel shown in the figure 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.

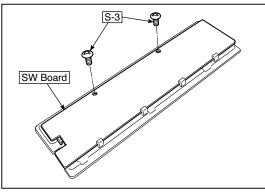


Fig.16

[When installed]

- 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).

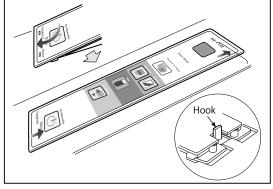
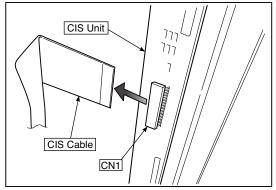


Fig.17

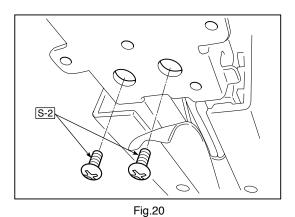
7) Remove the CIS Unit. (See Fig. 18.19)

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.

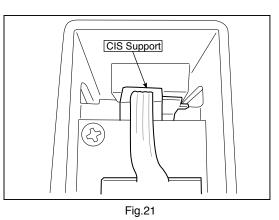






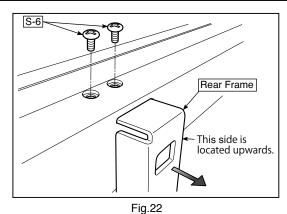
S-2





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" and "S-7"screws shown in the figure 23 and then remove the Panel Upper.

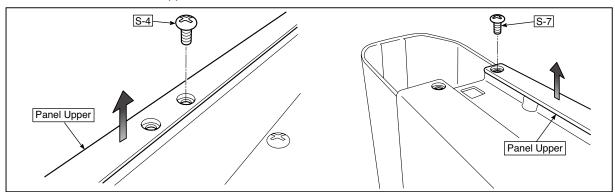
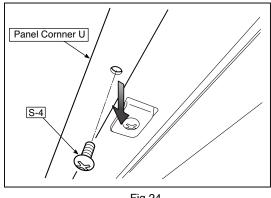


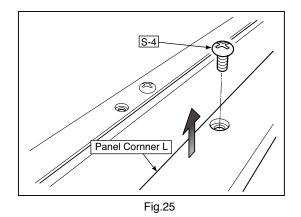
Fig.23

10) Remove the Panel Corner.

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





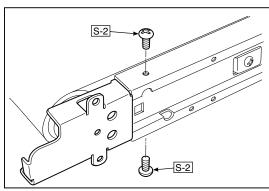


11) Replace the Endless sheet.

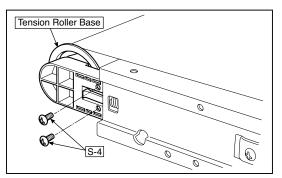
- 1.Remove the "S-2" screws shown in the figure 26.
- 2.Remove the Panel Plate shown in the figure 27.
- 3.Remove the stopper "S-4" screws in the (two upper and lower) Tension Roller Bases shown in the figure 28.

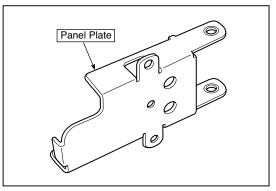
4. Push the Tension Roller Base block shown in the figure 29 into the inside and fix the Tension Roller Bases. Notes:

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

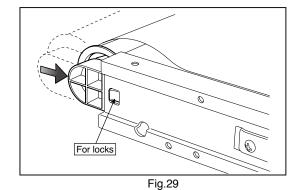




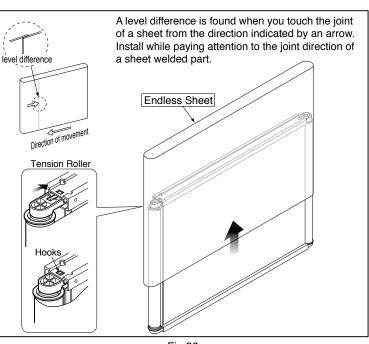












12) Replace the Sheet Motor Assy. (See Fig. 30)

1. Remove the "S-4" screws shown in the figure 30.

2. Disconnect the connector of the Sheet Motor Assy.

Note: Be careful not to interfere with the Sheet Guide Bar when installing the Sheet Motor Assy.

*Doing so causes vibration or strange noise to occur.

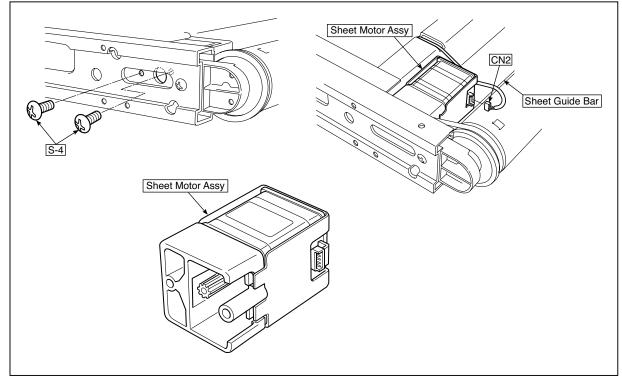


Fig.30

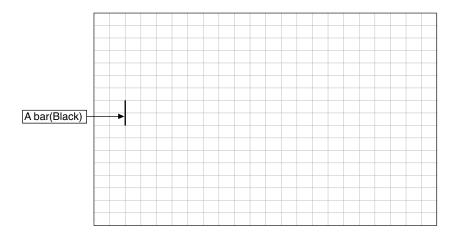
5. ADJUSTMENT

5-1. Calibration

Calibration is required in the following cases.

- When a Main Board is replaced
- When a CIS Unit is replaced
- When an Endless Sheet is replaced
- When a Sheet Frame Unit is replacedFor the replacement of a CIS Unit in the market, usually, use a unit that has been adjusted at a factory.
- * When any failure occurs in an image, be sure to perform calibration after replacing the CIS Unit.

[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)

[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>

ADJUSTMENT

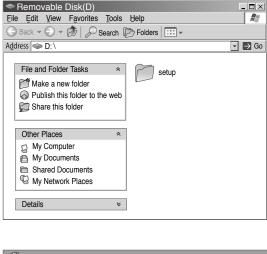
5-2. Changing the Internal Program of M-18 Main Set [How to rewrite program using PC]

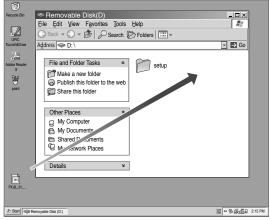
Equipment used

- 1) Firmware data for M-18 / M-17
- 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.

4. Copy the firmware data "PX08L_M18_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.

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. Factory-setting data clear

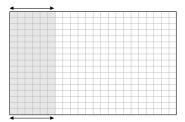
- Insert the plug of an AC Adaptor into the main set to apply the electric current. (in the Standby state).
- Press the Save button three times while pressing and holding the Power (ON / Standby) button.
- Test/adjustment mode segment display: <A.P>
- Press the Feed / Stop button two times. Segment display: <02>
- Press the Save button.
- Operation is completed when the segment display changes to <F. > and when <AA> display appears.
- * Reset only the user setting values.
 - $\label{eq:def-Default} \text{Default setting} \rightarrow \text{Print rate: Compression, paper}$
 - Paper setting: A4

Date format: dd-mmm-yyy

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

Make the Copyboard's device settings (paper size, aspect ratio setting and time setting) using a computer. When the Copyboard and a computer are connected using a USB Cable, the Copyboard is automatically recognized as an external memory device (removable disk).

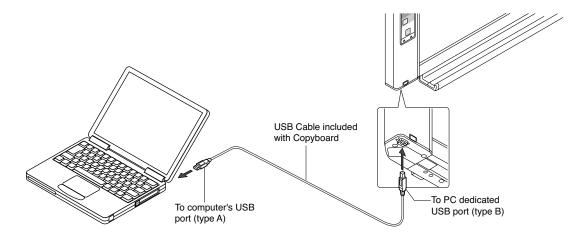
Before making the device settings

The Copyboard's device settings screen is created using Adobe® Flash®. Settings are made by opening a web browser.

Because of this, a web browser and Adobe Flash Player 10 for displaying the device settings screen must be installed on the computer. If Adobe Flash Player 10 is not installed on the computer, download it (free of charge) from the Adobe website.

1. Turn on the Copyboard's power and connect the PC dedicated USB port (type B) and computer using the USB Cable.

• Usually, with Windows XP/Windows Vista/Windows 7, the standard driver is installed automatically and the Copyboard is identified by the computer as a removable device.



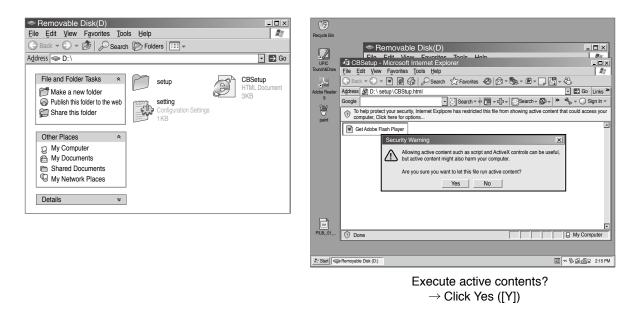
2. Open [My Computer], and from there open the copyboard identified as a removable device.

For the Copyboard's device (displayed as a removable disk), right-click [My Computer] to display the menu, then at [(Properties) -> [Device Manager], check that "PLUS Copyboard USB Device" is displayed as the disk drive name.

Removable Disk(D) Properties	? 🗙		
General AutoPlay Tools Hardware Sharin	g		
All disk <u>d</u> rives:			
Name	Туре		
Hitachi HTS541040G9ATOO	Disk drives		
PLUS Copyboard USB Device	Disk drives		
Device Properties Manufacturee:[Standard disk drive] Location: Location 0			
Device Status: This device is working properly	/.		
Troubleshoot	Properties		
OK Cance	Apply		

3. Open the "CBSetup" file in the "setup" folder.

- (1) Double-click the "setup" folder to open it.
- (2) Open the "CBSetup" file in the "setup" folder using your Web browser.
- Double-click the CBSetup file to open it.
- * Depending on the browser's version, etc., the file may not open.
- * Follow the displayed instructions when security protection display appears.



4. Make the device settings and save the "setting.ini" settings file, overwriting the previous file. (1) Make the settings.

Settings:

For the paper size and aspect ratio, click the radio button for the desired item to select it. **Time Day Stamp:**

For the time day stamp, use the computer's number keys to input the current date and time.

∕®i CE	3Setup - Microsoft Internet Explorer	
Eile E	dit View Favorites Tools Help	
🕞 Bai	* = 🔿 = 🗃 🙆 🏠 🖉 Search 🔮 Favorites 🐵 🛱 = 🗞 = 🖻 = [J 🔄 = 🖏
Address	D:\setup\CBStup.html	🔹 📄 Go 🛛 Links 🎽
Google	- 😌 Search - 🔶 🛅 - 🖧 - 🔀 Search - (💁 - 🛸 🔧 - 🔾 Sign In -
		-
	Settings Paper Size A4 Letter Set Printing Image Original Image Match Paper Size	
	Set 2011 / 06 / 17 14 : 37 Get Current Time	
🛈 Do	one	My Computer

DEVICE SETTINGS

- (2) If you have changed the Copyboard's device settings, click the "Set" button for the "Settings" section.
- (3) The save file screen appears when one of the "Set" buttons is pressed.
 - Save the "setting.ini" file (overwriting the previous file) in the following location: Save to location: "setup" folder for the Copyboard (removable disk) File name: setting.ini

Select locati	on for down	load by localhost	? X
Save <u>i</u> n:	🖻 setup		
My Recent Documents Desktop Documents My Documents	flash CBSetup Setting		
My Computer	File name:	setting	Save
My Network Places	Save as type:	All Files [x, x]	Cancel
Warning :This File before saving or o	•	able program or contain malicious content, use cation	

(4) Terminate the Web browser. The device settings are completed.

[Device setting items]

Item Name	Description	Default Setting
Paper Size	Paper SizeSets whether to print on the printer in A4 or letter size. A4 size printing range: Equal ratio – 145 x 287, Compressed – 195 x 287 Letter size printing range: Equal ratio – 136 x 269, Compressed – 206 x 269	
Printing Image	 This is only selectable on wide type copyboards. This selects the vertical:horizontal aspect ratio of the image when printing. Original Image: Image is printed with the same aspect ratio as on the Copyboard's sheet surface. Match Paper Size: Image is compressed horizontally to the A4 or letter size paper's aspect ratio (ex.: circles become ovals). 	Match Paper Size
Time Day Stamp	Input the current date and time. The entry fields are as follows (in order): Year / Month / Day / Hours: Minutes Input as follows: Year: 4 digits, Month: 2 digits (ex.: 03 for March), Day: 2 digits (ex.: 06 for the sixth), Hours: 2 digits in 24-hour format (ex.: 14 for 2:00 pm, 06 for 6:00 am), Minutes: 2 digits (ex.: 00 for 0 minutes) * Do not input spaces. If this is done, the file will be recognized as corrupt when the Copyboard is started and the settings well be reset to the defaults. Get Current Time : When "Get Current Time" button is clicked, the display switches to the computer's current time. This eliminates the need to set the current time on the Copyboard.	

[Way to rewrite the setting file directly]

Rewriting the "setting.ini" settings file directly

Depending on the browser's version, etc., the file may not open. In this case, open the "setting.ini" file (in text format) using Notepad or another application on the computer and rewrite the contents of the settings file directly.

Description example:

Date=2011/02/03	Date
Time=00:00	Time
A4Page=0 ······	Paper size
Stretch=1 ·····	Printing Image

Item	Item Name	Setting Value (numbers to be input)	Restrictions
Date	Date	Current date	Use "/" to separate the year, month and day.
Time	Time	Current time (24-hour mode)	Use ":" to separate the hours and minutes.
Paper size	A4page	Set to "0" for letter size, "1" for A4 size.	
Printing Image	Stretch	Stretch Set to "0" to print the image as it is on the sheet surface. Set to "1" to fit the image to the printing paper.	Only Settable for Wide type Copyboards.

* See the previous page for details on the settings.

* Do not input spaces. If this is done, the file will be recognized as corrupt when the copyboard is started and the settings well be reset to the defaults.

- After the file has been rewritten, save it, overwriting the previous "setting.ini" settings file. Save to location: "setup" folder for the copyboard (removable disk) File name: setting.ini
- (2) This completes the device Settings.

How to change the Date format

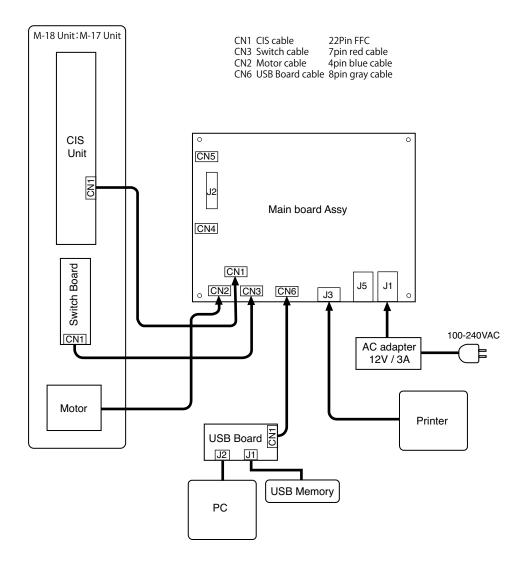
In order to chande the Date format, type "Format=1" or "Format=2" in an existing "Setting. ini" file and save it.

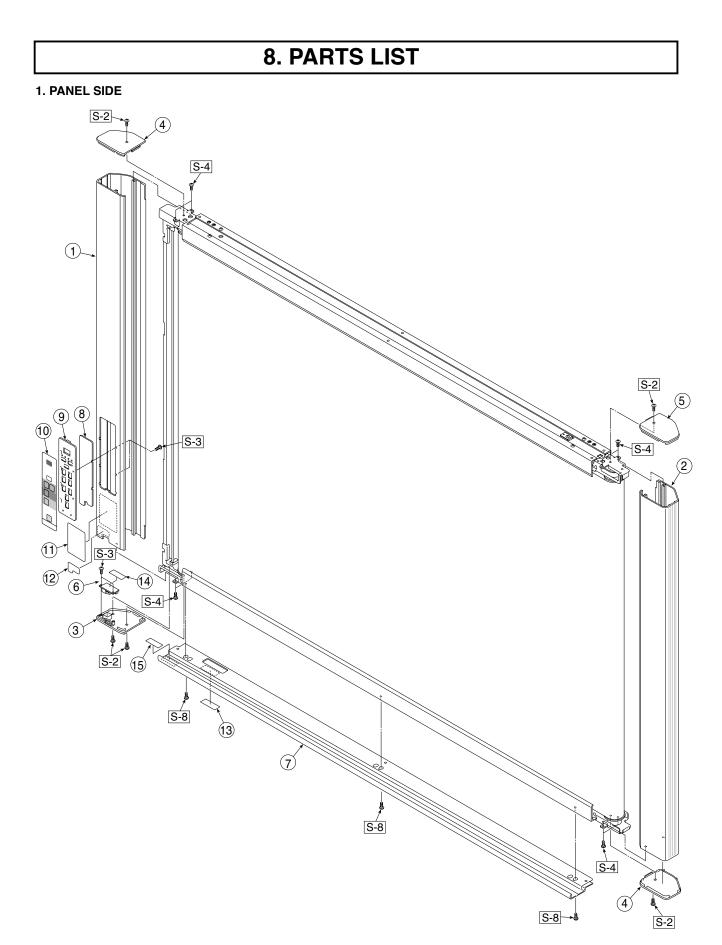
dd-mmm-yyy:Format=1 mmm-dd-yyy:Format=2

Description example:

- Date=2011/02/03 Time=00:00 A4Page=0 Stretch=1 Format=1
- * Please note that once disconnecting a USB cable after the setting, your typed "Format" in "Setting. ini" is not show again, however, the changed Date format is stamped on a printout properly.

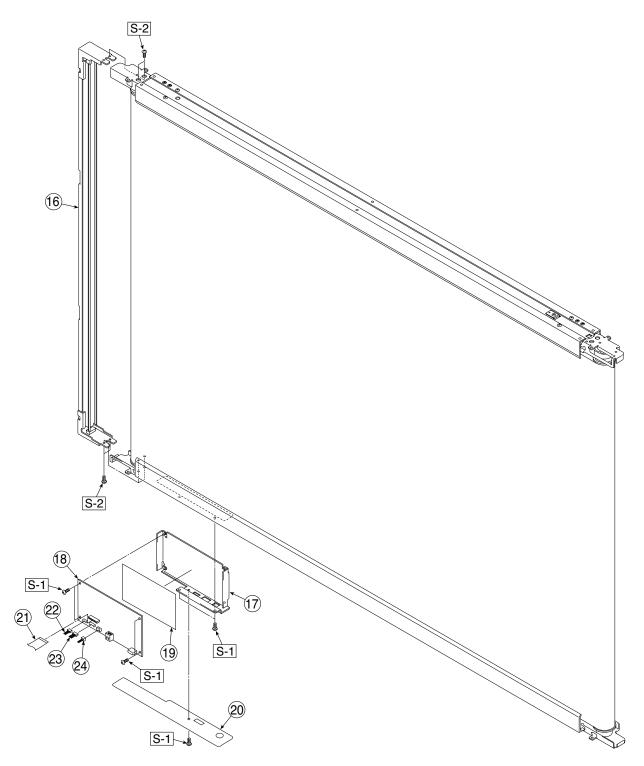
7. CABLE AND CABLE CONNECTION





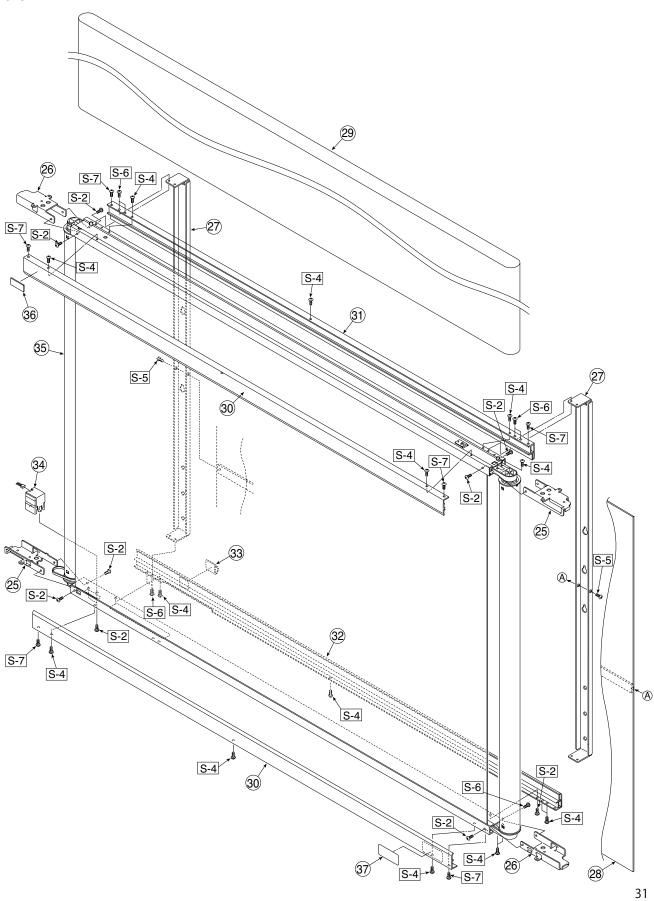
1. PANEL SIDE					
No	PARTS NAME	PARTS No.	Q' ty	REMARK	
1	Panel Side L	726110100	1		
2	Panel Side R	726110200	1		
3	Frame Cap PC	726120400	1		
4	Frame Cap B	726120600	2		
5	Frame Cap A	726120500	1		
6	USB Board Assy	726580200	1		
7	Tray Unit S	302009	1		
1	Tray Unit W	302010	1		
8	SW Board M-17/18	726580500	1		
9	SW Panel	726121100	1		
10	SW Sheet M-18	726150100	1	M-18 Only	
10	SW Sheet M-17	726157500	1	M-17 Only	
11	Status Guide Label (O/S)	726460200	1		
12	USB Label	726152900	1		
13	I/F Label M-17/18	726153200	1		
14	USB Board insulator	726951200	1		
15	Caution Label (O/S)	726153800	1		

2. MAIN BOARD. CIS UNIT. CABLE



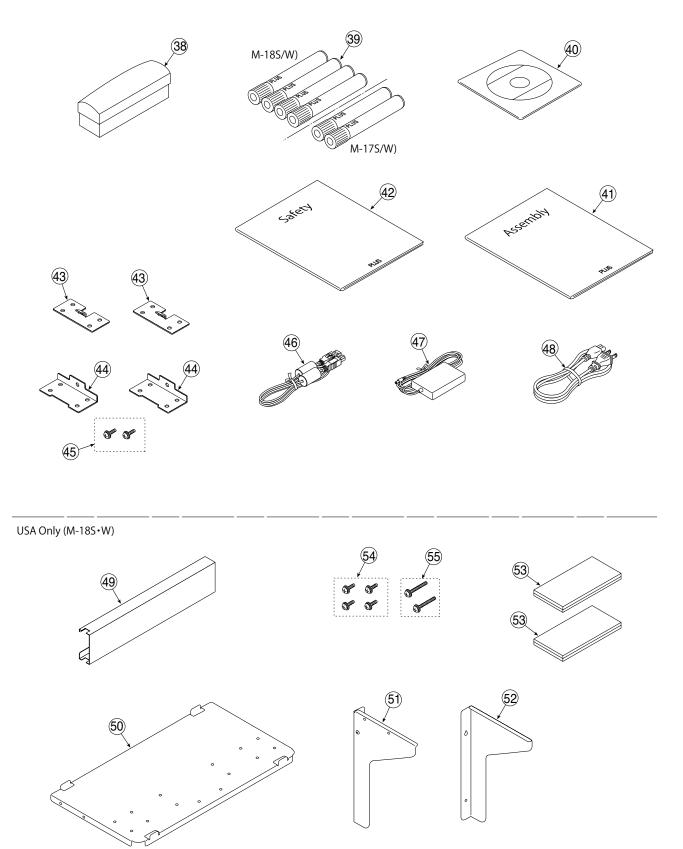
2. MAIN BOARD. CIS UNIT. CABLE					
No	PARTS NAME	PARTS No.	Q' ty	REMARK	
16	CIS Unit	302008	1		
17	Main Board Shield	726135500	1		
18	Main Board M-18	726581400	1	M-18 Only	
10	Main Board M-17	726581407	1	M-17 Only	
19	Main Board Sheet	726951100	1		
20	Cable Cover	726123100	1		
21	CIS Cable	726590200	1		
22	Motor Cable	726590100	1		
23	SW Cable	726590300	1		
24	USB Cable	726590500	1		





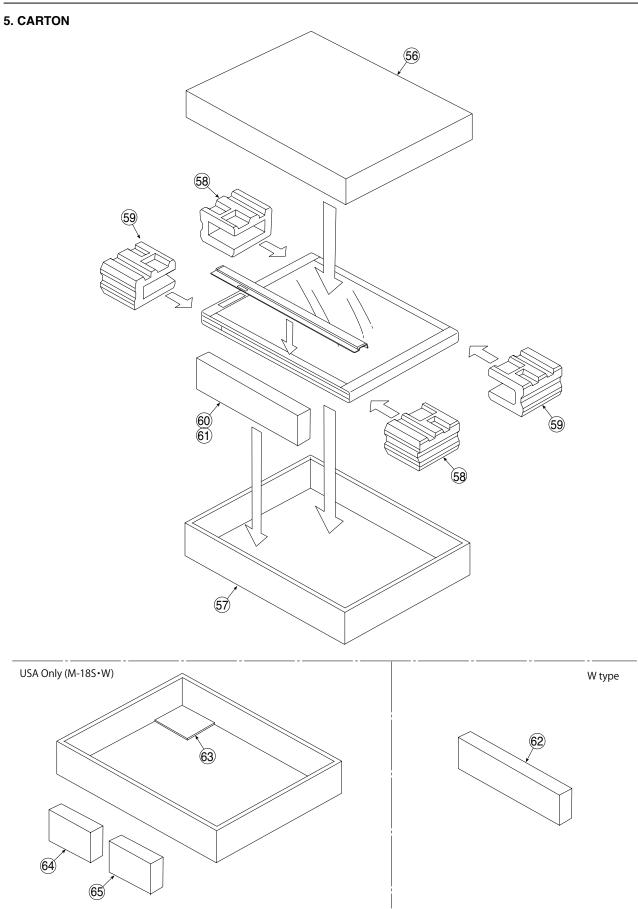
3. SH	3. SHEET FRAME					
No	PARTS NAME	PARTS No.	Q' ty	REMARK		
25	Panel Plate A	726130100	2			
26	Panel Plate B	726130200	2			
27	Rear Frame	726310100	2			
28	Back Panel Unit S	302001	1			
20	Back Panel Unit W	302002	1			
29	Endless Sheet S M-17/18/N-20	302005	1			
29	Endless Sheet W M-17/18/N-20	302006	1			
30	Panel Front S M-17/18	726120100	2	Upper-Lower common		
30	Panel Front W M-17/18	726120800	2	Upper-Lower common		
31	Panel Rear S Upper	726120900	1			
51	Panel Rear W Upper	726121200	1			
32	Panel Rear S Lower	726121000	1			
32	Panel Rear W Lower	726121300	1			
33	Cable Clamp	726129100	1			
34	Sheet Motor Unit	726090007	1			
	Sheet Frame Unit S M-18/N-20	302003	1			
35	Sheet Frame Unit S M-17	302025	1			
30	Sheet Frame Unit W M-18/N-20	302004	1			
	Sheet Frame Unit W M-17	302026	1			
36	Logo Label	726152700	1			
37	Cleaning Label	726153500	1			

4. ACCESSORIES

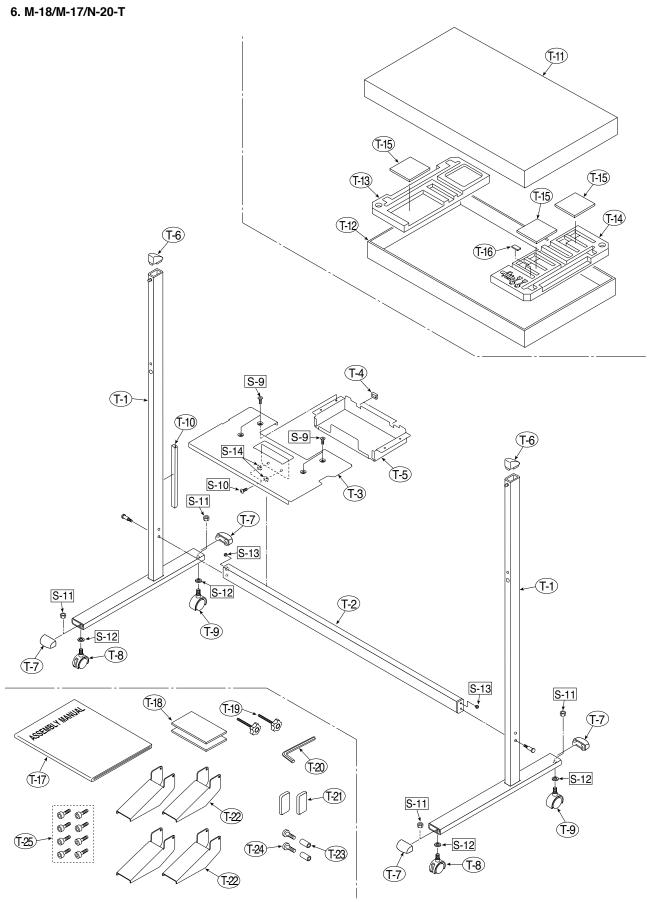


4. ACCESSORIES

No	PARTS NAME	PARTS No.	Q' ty	REMARK
38	Eraser 51-058	51058	1	
39	Marker Set	-	1	NO Parts Supply
00	Marker Set for M-17	-	1	NO Parts Supply
40	Manual CD-ROM M-18	726461500	1	M-18 Only
-0	Manual CD-ROM M-17	726461300	1	M-17 Only
41	Assembly Manual M-17/18 (O/S)	726460300	1	
42	Safety Guide	726460800	1	
43	Wall Mount Plate Upper	726325100	2	
44	Wall Mount Plate Lower	726325200	2	
45	M4-12 Cross Recessed Binding Head	951241250	2	
46	USB Cable	715258900	1	
47	AC Adapter	726590400	1	
	Power Cable (2.5m) BS	715259300	1	
	Power Cable (2.5m) CEE	715259200	1	
48	Power Cable (2.5m) SAA	715259500	1	
48	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
49	Adapter Holder (Wall Mount)	-	1	NO Parts Supply
50	Printer Platform (Wall Mount)	-	1	NO Parts Supply
51	Printer Bracket L (Wall Mount)	-	1	NO Parts Supply
52	Printer Bracket R (Wall Mount)	-	1	NO Parts Supply
53	Fastener Layer Set 50×100	-	1	NO Parts Supply
54	M4-8 Cross Recessed Binding Head	-	4	NO Parts Supply
55	M4-20 Cross Recessed Binding Head	-	2	NO Parts Supply



5. CARTON					
No	PARTS NAME	PARTS No.	Q' ty	REMARK	
-	Carton Unit S M-17/18/N-20/C-20	302011	1		
-	Carton Unit W M-17/18/N-20/C-20	302012	1		
EG	Carton S Upper	-	1	NO Parts supply	
56	Carton W Upper	-	1	NO Parts supply	
57	Carton S Lower	-	1	NO Parts supply	
	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	NO Parts supply	
63	Printer Table Stand Carton	-	1	USA Only	
64	Parts Pad L	-	1	USA Only	
65	Parts Pad R	-	1	USA Only	



6. M-	6. M-18/M-17/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			
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-17/18/N-20-T (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	No Parts Supply		
T-16	Stand Packing D	-	1	No Parts Supply		
T-17	Assembly Sheet (Stand) M17/18/N-20-T (O/S)	726462600	1			
T-18	Fastener Layer Set 50×100	722090012	1			
T-19	Fixed Knob	715204500	2			
T-20	Hexagon Wrench	959030050	1			
T-21	Screw Cap	726334500	2			
T-22	Stand Stabilizer	726334700	4			
-	Screw Unit (Stand) M-18/N-20-T	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. SC	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	Standard: 3 Wide: 4		
S-9	M4-8 Cross Recessed Bind Head	951240850	4			
S-10	M5-40 Low Head Hexagon Bolt	964254070	2			
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			

PLUS Corporation Stationery Company