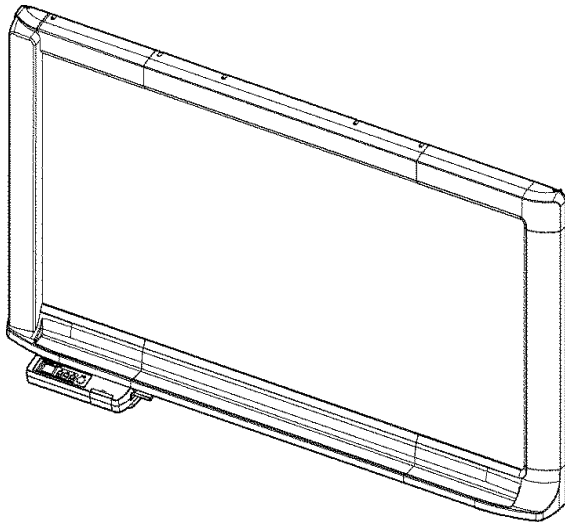


Service Manual

Electronic Board

Model No. **UB-5838C**

Model No. **UB-5338C**



This picture shows UB-5838C.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by **⚠** in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

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1 General Precautions

1.1. Safety Precautions

English

1. Before servicing, unplug the power cord to prevent electrical shock hazard.
2. Note in the operating instructions or notes of labels on the cabinet, chassis or parts should be observed.
3. Be sure to put on a glove to avoid electric shock or injury.
4. When replacing parts, use only manufacture's recommended components for safety.
5. Check the condition of power cord. Replace if wear or damage is evident.
6. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
7. Before returning the serviced equipment to the customer, perform the following electrical tests to prevent shock hazard.

Deutsch

1. Vor Wartung ziehen Sie den Netzstecker um Stromschlag zu vermeiden.
2. Hinweise in der Bedienungsanleitung oder auf Etiketten am Schaltschrank, am Gehäuse oder an Teilen sind zu beachten.
3. Ziehen Sie Handschuhe an, um elektrische Schläge oder Verletzungen zu vermeiden.
4. Benutzen Sie aus Sicherheitsgründen nur die vom Hersteller empfohlenen Komponenten.
5. Prüfen Sie den Netzstecker und ersetzen Sie ihn bei Beschädigung.
6. Stellen Sie nach der Wartung sicher dass die Schutz- und Isoliermaterialien plaziert sind.
7. Bevor das gewartete Gerät retourniert wird, führen Sie die folgende Elektrizitäts-Tests aus, um Stromschlag auszuschliessen.

1.2. Electrical Tests

1. Unplug the power cord and check for continuity between the earth ground connection on the plug and the metal cabinet. There should be zero ohm resistance found.
2. With the unit unplugged, short the AC Live-Neutral of the plug with a jumper wire.
3. Turn ON the power switch.
4. Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, etc.

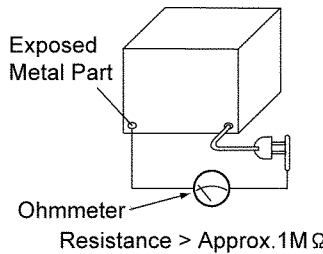
Note

Some exposed parts may be isolated from the chassis by design. They read infinity.

5. If the measurement is less than 1 MΩ, a possibility for electric shock may exit.

Note

This hazardous condition must be corrected before the unit is returned to the end user.



(Example of Name Plate)



The Areas/Countries Distinction Mark(s) is(are) listed here.

The AC plugs are different from area/country to area/country. When performing the electrical test, check the Areas/Countries Distinction Mark (printed on the name plate), and refer to the following table.

Type of Plug	Model No.	Areas/Countries Distinction Mark (printed on name plate)	Application Areas/Countries
	UB-5838C or UB-5338C	(No Mark) / C / T	(No Mark): U.S.A., Puerto Rico, etc. C : Canada T : Taiwan
		U	United Kingdom, Hong Kong, Singapore, Malaysia, etc.
		A	Australia, New Zealand, etc.
		G	Germany, France, Italy, Spain, Holland, Denmark, Switzerland, Norway, Finland, Thailand, Panama, Brazil, Russia, South Africa, U.A.E., Egypt, Kuwait, Pakistan, Oman, India, Indonesia, etc.
		CN	China

1.3. Standard for Repair Service

Repair service shall be provided in accordance with repair technology information such as service manual so as to prevent fires, injury or electric shock, which can be caused by improper repair work.

1. When performing repairs, neither the products nor its parts or components shall be modified.
2. If cable assembly is supplied as the smallest unit when servicing, make sure to replace the cable assembly.

1.4. For Service Technicians

ICs and LSIs are vulnerable to static electricity.

When repairing, the following precautions will help to prevent recurring malfunctions.

1. Cover the plastic parts with aluminum foil.
2. Ground the soldering irons.
3. Use a conductive mat on the worktable.
4. Do not grasp IC or LSI pins with bare fingers.

1.5. About Lead Free Solder (PbF: Pb free)

Note

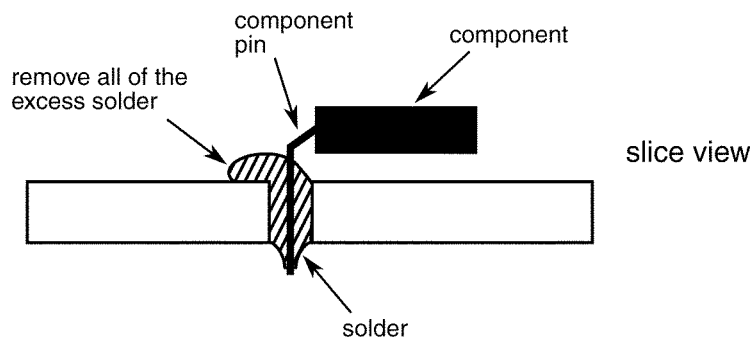
- In the information below, Pb, the symbol for lead in the periodic table of elements, will refer to standard solder or solder that contains lead.
- We will use PbF when discussing the lead free solder used in our manufacturing process which is made from Tin (Sn), Silver (Ag), and Copper (Cu).
- This model, and others like it, manufactured using lead free solder will have PbF stamped on the PCB. For service and repair work we suggest using the same type of solder.

Distinction of PbF PCB

- PCBs (manufactured) using lead free solder will have a PbF stamp on the PCB.

Caution

- PbF solder has a melting point that is 50 ° - 70 °F, (30 ° - 40 °C) higher than Pb solder.
Please use a soldering iron with temperature control and adjust it to 700 ° ± 20 °F (370 ° ± 10 °C).
- Exercise care while using higher temperature soldering irons.: Do not heat the PCB for too long time in order to prevent solder splash or damage to the PCB.
- PbF solder will tend to splash if it is heated much higher than its melting point, approximately 1100 °F (600 °C).
- When applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side (See figure below)



1.5.1. Suggested Pb free solder

We recommend you to use the following solder when re-soldering components for repair. Before using other Pb free solder than the following solder, make sure to confirm that the solder maker (you use) has the license agreement for Pb free solder.

Supplier: Senju Metal Industry Co., Ltd. (<http://www.senju-m.co.jp>)

Part Description in Senju: EcoSolder RMA02 P3 M705 Series

1.6. About RoHS

This product is fully compliant with the national laws transposed from the EU Directive on the restriction of the use of certain hazardous substances (RoHS) in electrical and electronic equipment, effective 1st July 2006 in the EU countries.

In order for the product to comply with the RoHS Directive, the six particular substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls, and polybrominated diphenyl ethers) have been either totally eliminated or limited to the concentration level below maximum allowed. Consequently spare parts have been changed to RoHS-compliant parts where applicable.

Due to spare parts application of RoHS legislation, non-compliant spare parts cannot be used to repair compliant products put on the EU market on or after 1st July 2006. Please therefore make sure to order and use RoHS-compliant spare parts listed in this manual.

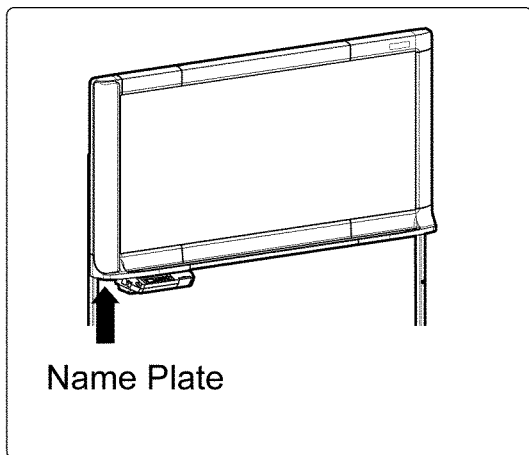
2 Introduction

2.1. Before using this manual

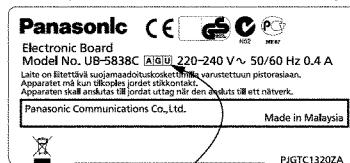
This model (specifications, component parts, service parts, etc.) is different from area/country to area/country. This difference can be distinguished by the Areas/Countries Distinction Mark (printed on the name plate). In this manual, the Areas/Countries Distinction Mark is used to distinguish this difference. When servicing, repairing or handling this model, check the Areas/Countries Distinction Mark and use this service manual.

Note:

In this service manual, the distinction mark(s) is (are) not listed regarding the common items.



(Example of Name Plate)



The Areas/Countries Distinction Mark(s) is(are) listed here.

Areas/Countries Distinction Mark (printed on name plate)	Model No.	Application Areas/Countries
(No Mark)	UB-5838C or UB-5338C	U.S.A., Puerto Rico, etc.
C		Canada
T		Taiwan
U		United Kingdom, Hong Kong, Singapore, Malaysia, etc.
A		Australia, New Zealand, etc.
G		Germany, France, Italy, Spain, Holland, Denmark, Switzerland, Norway, Finland, Thailand, Panama, Brazil, Russia, South Africa, U.A.E., Egypt, Kuwait, Pakistan, Oman, India, Indonesia, etc.
CN		China

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- IBM and AT are trademarks of International Business Machines Corporation in the United States, other countries, or both.
- SD Logo is a trademark.
- All trademarks referred to in this manual are property of their respective companies.

2.2. Specifications

2.2.1. UB-5838C

Item		UB-5838C/5838C-C/5838C-T	UB-5838C-A/5838C-G/5838C-U/5838C-CN	
General	Power Supply	AC 100 to 120 V, 50/60 Hz	AC 220 to 240 V, 50/60 Hz	
	Power Consumption (Operating/Standby)	0.70 A / 0.23 A	0.35 A / 0.15 A	
	External Dimensions (without Stand) (Height x Width X Depth)	1,125 mm x 1,998 mm x 224 mm (44.30 inch x 78.67 inch x 8.82 inch)		
	External Dimensions (with Stand) (Height x Width X Depth)	1,830 mm x 1,998 mm x 1,207 mm (72.05 inch x 78.67 inch x 47.52 inch)		
	Mass (including Stand)	28 kg (61.73 lb.)		
	Mass (excluding Stand)	38 kg (83.78 lb.)		
	Ambient Operating Conditions	Temperature: 10 to 35°C (50 to 95°F) Humidity: 30 to 80 % RH		
	Ambient Storage Conditions	Temperature: -20 to 60°C (-4 to 140°F) Humidity: 15 to 80 % RH		
	Display	1.8 inch Color LCD		
	Battery for Clock	Lithium Coin Battery (CR2032) x 1		
	PC Interface	Full Speed USB 2.0 Note: This unit does not function with Hi-Speed USB 2.0.		
Input Block	Panel Surfaces	2 (Endless Type)		
	Panel Advance System	Endless Scroll Type		
	Panel Dimensions (Height x Width)	838 mm x 1,740 mm (33.00 inch x 68.51 inch)		
	Scanning Area (Height x Width)	790 mm x 1,722 mm (31.11 inch x 67.80 inch)		
	Scanning System	Contact Image Sensors		
	Scanning Modes	Color / B/W		
	Scanning Size	Standard-size / Full-size		
	Scanning Resolution (Height x Width)	(Standard-size, A4) Color / B/W: 1.7 x 1.7 dot/mm (44 x 44 dpi) (Standard-size, Letter) Color / B/W: 1.6 x 1.6 dot/mm (41 x 41 dpi) (Full-size, A4) Color / B/W: 2.4 x 1.7 dot/mm (61 x 44 dpi) (Full-size, Letter) Color / B/W: 2.5 x 1.6 dot/mm (62 x 41 dpi)		
	Scanning Period	Color: 30 sec B/W: 20 sec		
Output Block	Printer*1	Interface	Full Speed USB 2.0	
		Support Printer Language	PCL 3 GUI	
		Paper Size	A4/ Letter* Note*: Letter size is for USA and Canada models.	
		Print Resolution	300 dpi	
		Continuous Copies	1 to 9 pages	
	USB Flash Memory Device*1	Interface	Full Speed USB 2.0	
		Support Format	FAT (FAT16) / FAT32 Format (Capacity: 32 GB Maximum)	
		Store File Format	PDF / JPEG	
	SD Memory Card*1	SD specifications	Version 1.10 Note: SDHC Memory Card and SD I/O standard are not supported.	
		Support Format	FAT16 *2 Format (Capacity: 2 GB Maximum)	
Store File Format		PDF / JPEG		

Note:

*1: For information regarding USB Flash Memory Device, SD Memory Cards, and printers, refer to the following site.
http://panasonic.co.jp/pcc/products/en/eboard/ub-5838c_info.htm

*2: If an SD memory card has been formatted (ex. by the general formatting software of a computer), it oftentimes cannot be recognized by this unit. To use the SD memory card with this unit, it must be reformatted to comply with SD memory card specifications using the appropriate formatting software. You can also download the formatting software for the SD memory card from the following site:

http://panasonic.jp/support/global/cs/sd/download/sd_formatter.html

2.2.2. UB-5338C

Item		UB-5338C/5338C-C/5338C-T	UB-5338C-A/5338C-G/5338C-U/5338C-CN	
General	Power Supply	AC 100 to 120 V, 50/60 Hz	AC 220 to 240 V, 50/60 Hz	
	Power Consumption (Operating/Standby)	0.70 A / 0.23 A	0.35 A / 0.15 A	
	External Dimensions (without Stand) (Height x Width X Depth)	1,125 mm x 1,636 mm x 224 mm (44.30 inch x 64.41 inch x 8.82 inch)		
	External Dimensions (with Stand) (Height x Width X Depth)	1,830 mm x 1,636 mm x 1,207 mm (72.05 inch x 64.41 inch x 47.52 inch)		
	Mass (including Stand)	26 kg (57.32 lb.)		
	Mass (excluding Stand)	36 kg (79.37 lb.)		
	Ambient Operating Conditions	Temperature: 10 to 35°C (50 to 95°F) Humidity: 30 to 80 % RH		
	Ambient Storage Conditions	Temperature: -20 to 60°C (-4 to 140°F) Humidity: 15 to 80 % RH		
	Display	1.8 inch Color LCD		
	Battery for Clock	Lithium Coin Battery (CR2032) x 1		
PC Interface	Full Speed USB 2.0 Note: This unit does not function with Hi-Speed USB 2.0.			
Input Block	Panel Surfaces	2 (Endless Type)		
	Panel Dimensions (Height x Width)	838 mm x 1,378 mm (33.00 inch x 54.26 inch)		
	Scanning Area (Height x Width)	790 mm x 1,360 mm (31.11 inch x 53.55 inch)		
	Scanning System	Contact Image Sensors		
	Scanning Modes	Color / B/W		
	Scanning Size	Standard-size only		
	Scanning Resolution (Height x Width)	(Standard-size, A4) Color / B/W: 2.2 x 2.2 dot/mm (56 x 56 dpi) (Standard-size, Letter) Color / B/W: 2.1 x 2.1 dot/mm (52 x 52 dpi)		
	Scanning Period	Color: 30 sec B/W: 20 sec		
Output Block	Printer *1	Interface	Full Speed USB 2.0	
		Support Printer Language	PCL 3 GUI	
		Paper Size	A4/ Letter* Note*: Letter size is for USA and Canada models.	
		Print Resolution	300 dpi	
		Continuous Copies	1 to 9 pages	
	USB Flash Memory Device *1	Interface	Full Speed USB 2.0	
		Support Format	FAT (FAT16) / FAT32 Format (Capacity: 32 GB Maximum)	
		Store File Format	PDF / JPEG	
	SD Memory Card *1	SD specifications	Version 1.10 Note: SDHC Memory Card and SD I/O standard are not supported.	
		Support Format	FAT16 *2 Format (Capacity: 2 GB Maximum)	
Store File Format		PDF / JPEG		

Note:

*1: For information regarding USB Flash Memory Device, SD Memory Cards, and printers, refer to the following site.
http://panasonic.co.jp/pcc/products/en/eboard/ub-5838c_info.htm

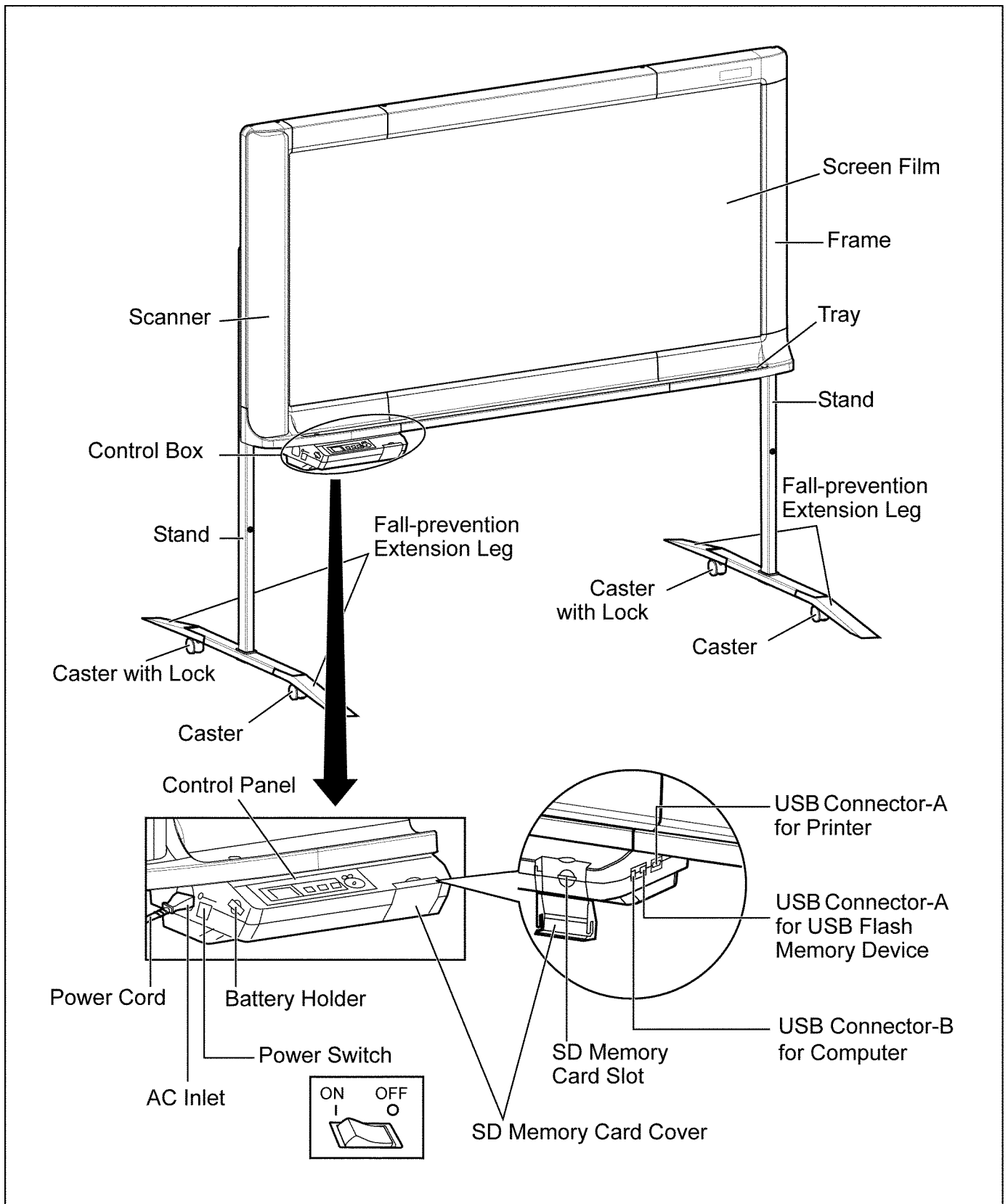
*2: If an SD memory card has been formatted (ex. by the general formatting software of a computer), it oftentimes cannot be recognized by this unit. To use the SD memory card with this unit, it must be reformatted to comply with SD memory card specifications using the appropriate formatting software. You can also download the formatting software for the SD memory card from the following site:

http://panasonic.jp/support/global/cs/sd/download/sd_formatter.html

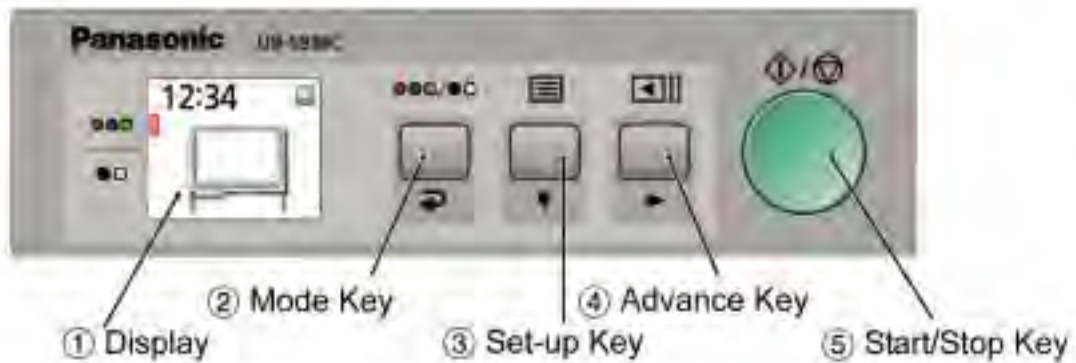
2.2.3. Separately Available Item






Model No.	Description	Remarks
UE-608035	Stand	
KX-B031	Markers	Set of 10 black markers
KX-B032	Markers	Set of 10 red markers
KX-B033	Markers	Set of 10 blue markers
KX-B042	Erasers	Set of 6 erasers
KX-B035	Marker and Eraser set	Contains one black, one red, and one blue markers and one eraser

2.3. External View



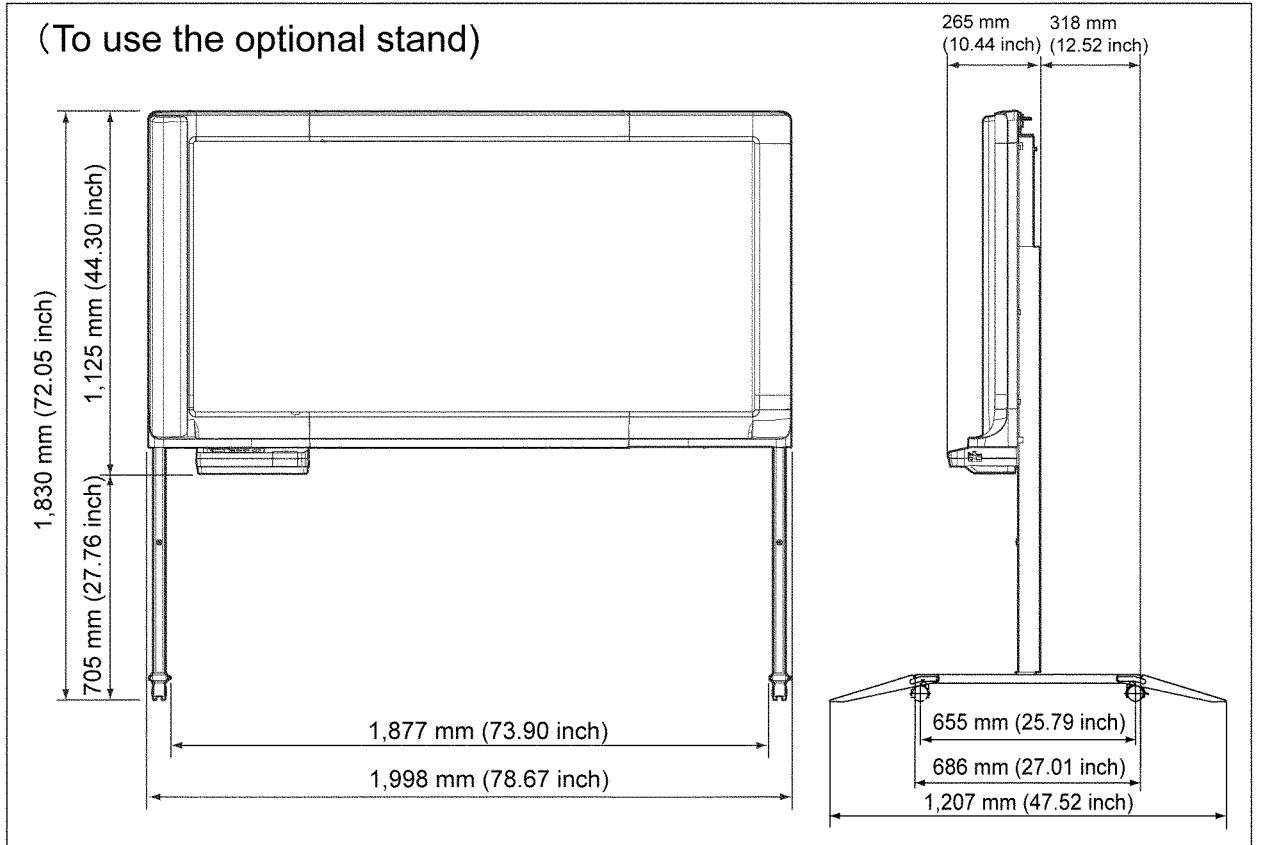
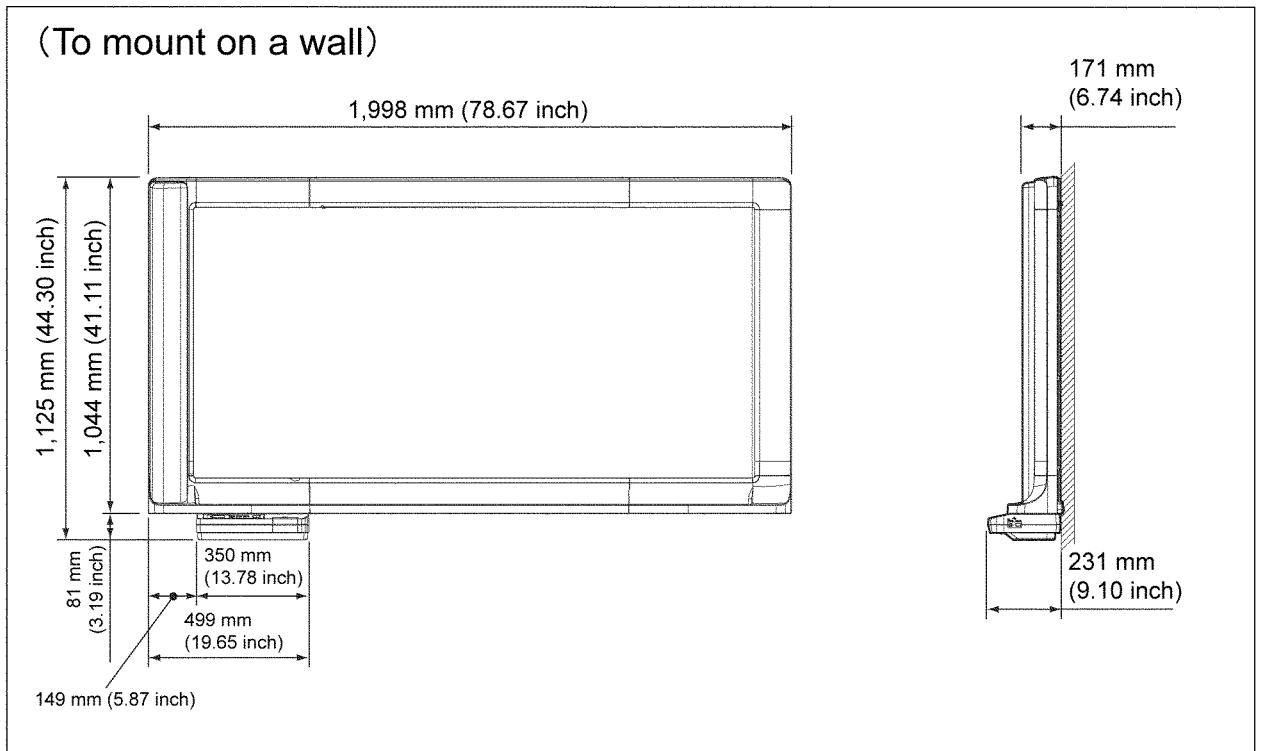
2.4. Control Panel Operation



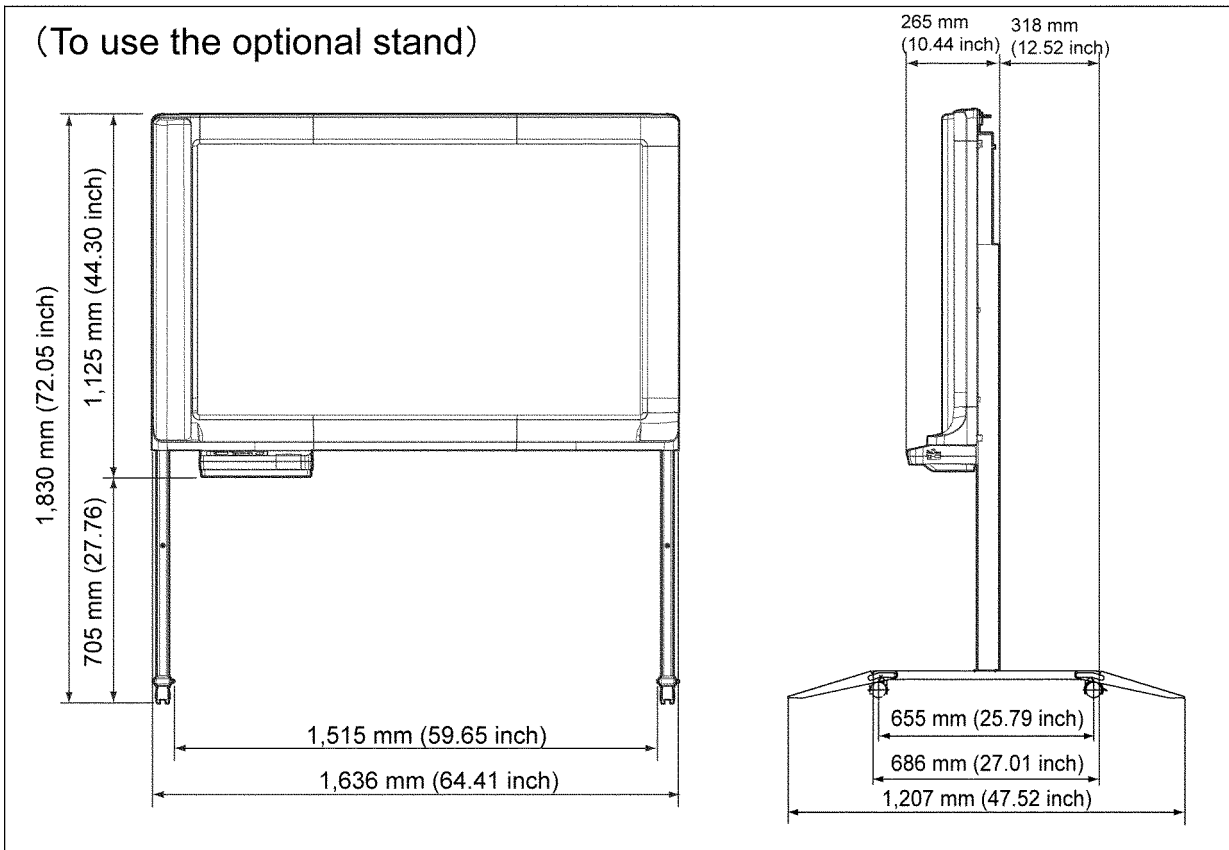
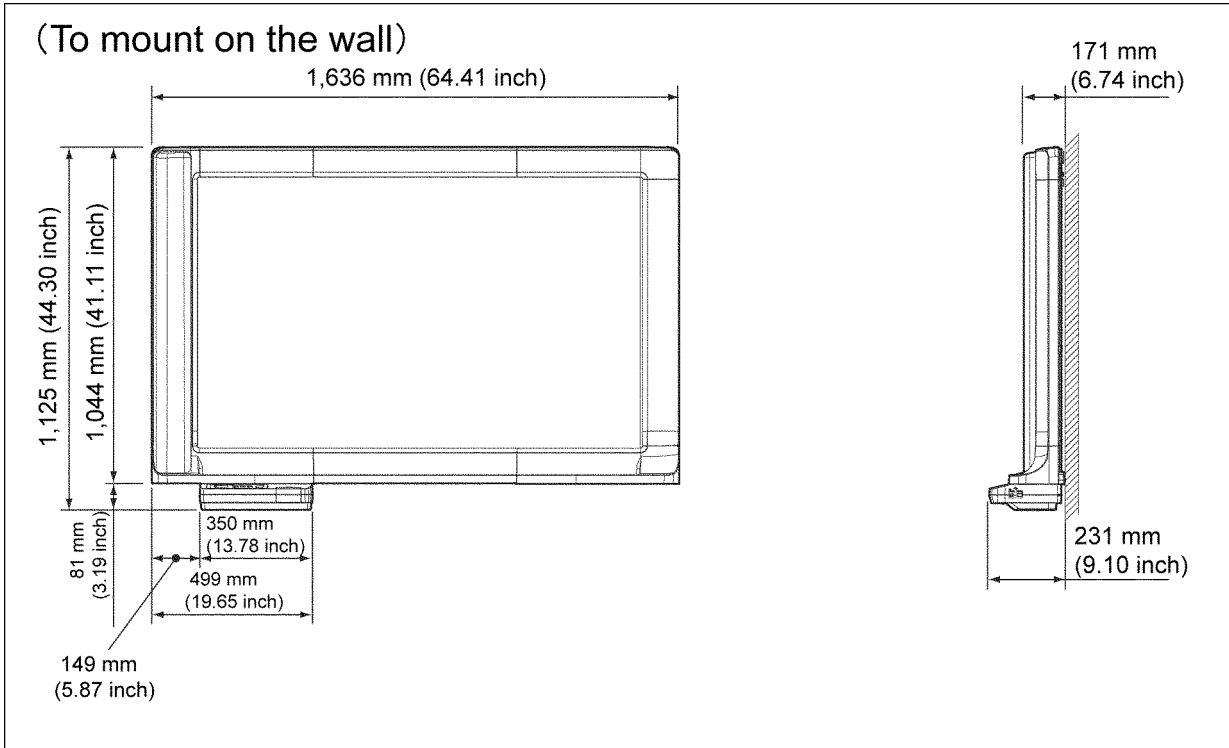
Name	Description
 <p>① Display</p>	<p>When in standby mode, the display shows the current status of the unit as follows:</p> <ul style="list-style-type: none"> • The time is shown on the top left corner of the display. • The scanning mode is shown on the icons on the left side of the display. • The destination for scanned images is shown in the center of the display.
 <p>② Mode Key</p>	<p>Push repeatedly to select the scanning mode. The selected mode will be indicated next to the icons on the left side of the display.</p> <p>●●● Color: For scanning color images. ●○ B/W: For scanning black and white images.</p> <p>Preview mode: Returns to the previous screen. Set-up mode: Returns to standby mode.</p>
 <p>③ Set-up Key</p>	<p>Push to change the basic settings of this unit.</p> <p>Preview mode: Shows to the lower part. Set-up mode: Goes to the item below.</p>
 <p>④ Advance Key</p>	<p>Push to advance the screen from right to left.</p> <p>Preview mode: Shows to the right part. Set-up mode: Goes to the next item to the right, or perform the item.</p>
 <p>⑤ Start/Stop Key</p>	<p>Push to start or stop scanning.</p>

2.5. External Dimensions

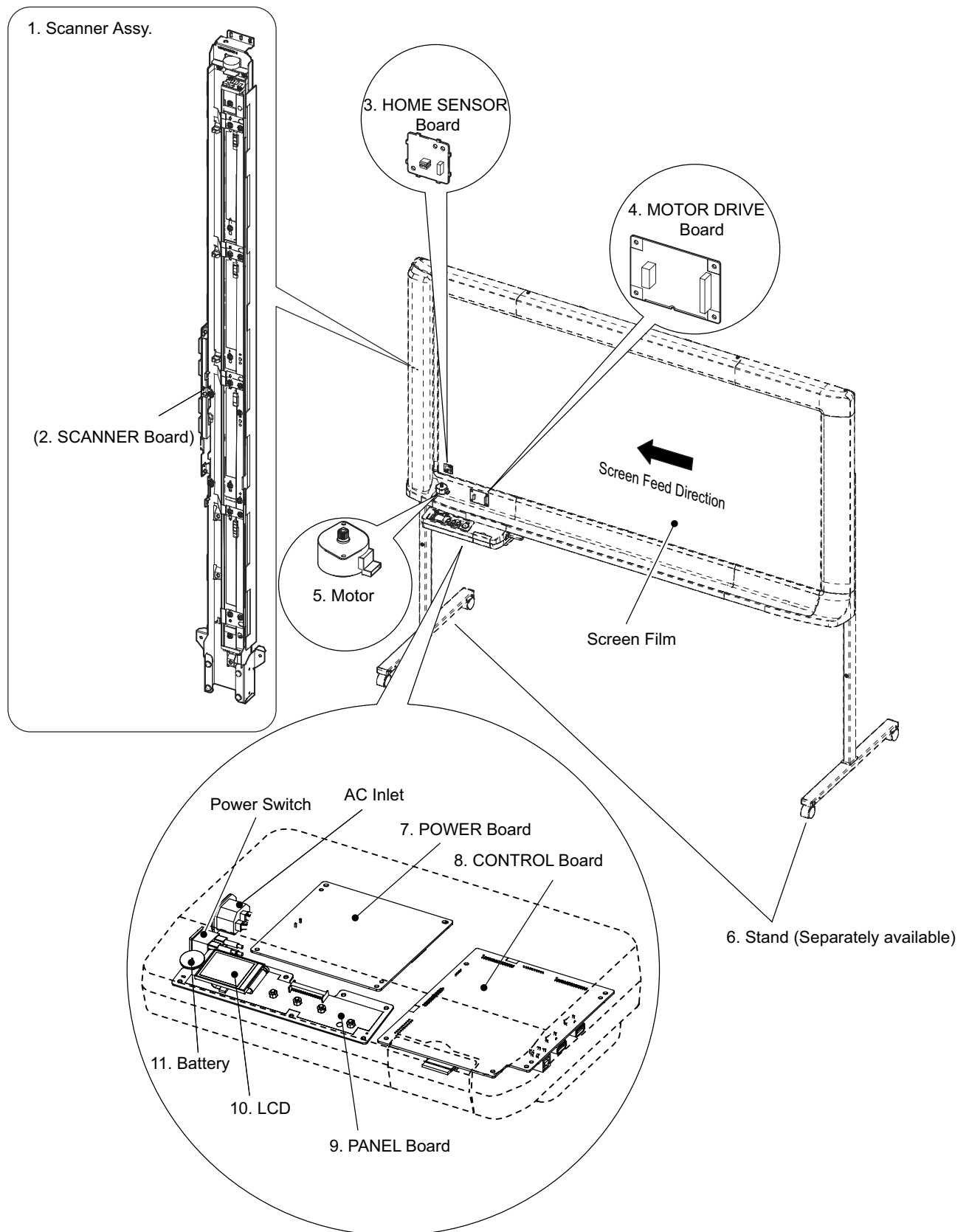
2.5.1. UB-5838C



2.5.2. UB-5338C



2.6. Main Components' (Scanner Assy., PCB Assembly, and others) Locations



No.	Components	Descriptions
1	Scanner Assy.	This assembly consists of LED Light-Guide, Lens, and Contact Image Sensors. A light through the LED Light-Guide is reflected from the screen film surface. Then the reflected light will reach the Contact Image Sensors (CISs) through the Lens. These CISs will convert the light into electrical signals, and then will transmit the signals to the SCANNER Board. Then the SCANNER Board will convert the signals into image digital signals and then will transmit the digital signals to the CONTROL Board. Then the CONTROL Board will store them in its inner memories so that they can be downloaded to a USB Flash Memory and a SD Card, or can be printed out with a printer.
2	SCANNER Board	This board converts the signals into image digital signals, and then will transmit the digital signals to the CONTROL Board.
3	HOME SENSOR Board	This board detects the Home Marker's position that tells the start -position of the scrolled screen film to the Panaboard.
4	MOTOR DRIVE Board	This board has the motor-drive circuits that allows the Screen Main-Roller to feed the screen film.
5	Motor	Used to feed the screen film
6	Stand	Panaboard Stand (separately available)
7	POWER Board	This board supplies power to CONTROL Board, CIS, and other components to realize Panaboard operation.
8	CONTROL Board	This board operates to control and realize all Panaboard functions.
9	PANEL Board	This board consists of operation keys and LCD device.
10	LCD	This component is a display screen to indicate messages.
11	Battery	Used to back up the setting on the clock

3 Installation Instructions

The Panaboard is mounted on a wall or is installed to the Stand sold separately.

When mounting it on a wall, refer to Sec. 3.6 (Wall Mounting Construction).

When installing it to the Stand, refer to Operating Instructions for UB-5838C and UB-5338C.

3.1. Installation Requirements

This is a sophisticated piece of equipment, which somewhat depends on the surrounding conditions for optimum operation. Attention to the following will result in more reliable and quality performance.

This model should not be installed in areas with the following condition.

- (1) High temperature and humidity or low temperature and low humidity
- (2) Direct exposure to sunlight
- (3) Direct exposure to air conditioners, or close to heater ducts
- (4) Uneven floor

3.2. Minimum Space Requirements

Refer to Sec. 2.5 "External Dimensions".

3.3. Installing

Before installing the Panaboard, assemble Wall-mounting Fixtures or optional Stand.

When using the Wall-mounting Fixtures, see Sec.3.6.

When using the optional Stand, refer to Operating Instructions for UB-5838C and UB-5338C.

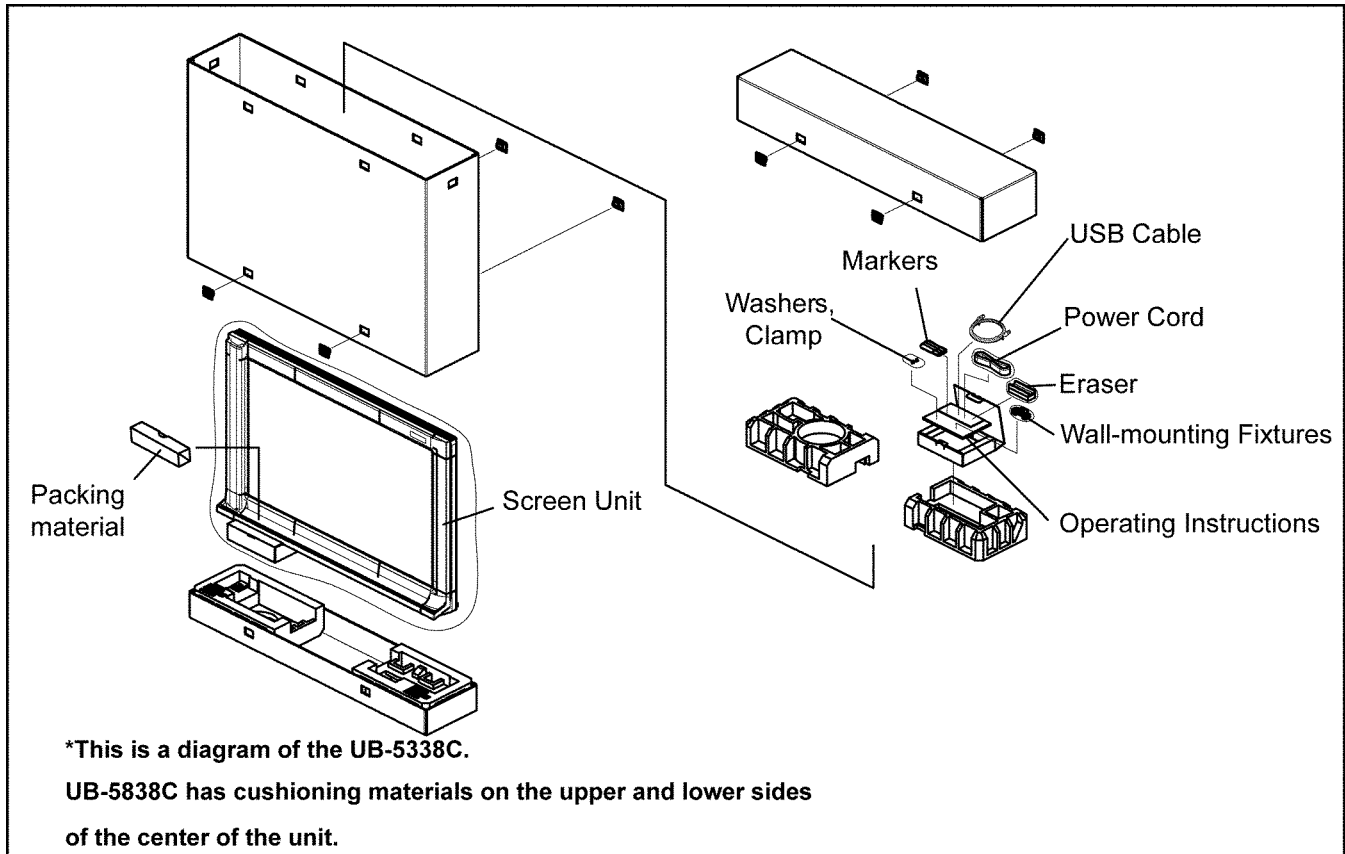
3.3.1. Unpacking

1. Remove the Joints and Shipping Box.

Note:

UB-5838C has 12 Joints.

UB-5338C has 8 Joints.


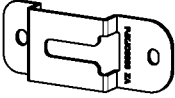

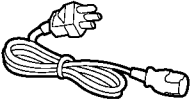


Note:

1. When handling the screen unit, grasp the side cover on either side of screen. Do not grasp the screen film surface, as this may scratch it.
2. When removing the shipping box, make sure that it does not strike the screen unit. (The screen unit may fall over.)
3. Remove the screen fixing tapes from top down slowly not to damage the screen film surface.
4. The shipping box, cushioning material, and other packing material will be necessary for repackaging this unit. Do not throw them away.

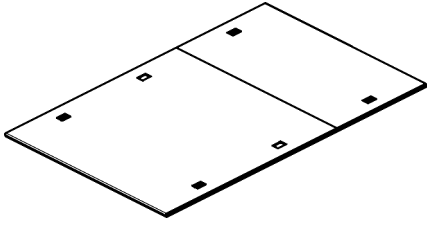
3.3.2. Included Accessories

The package includes the parts for setting up the unit shown below. Make sure that all of these parts are included in the package before proceeding.

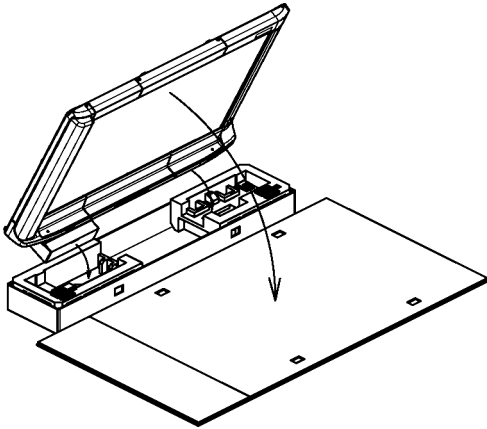
No.	Part Name	Illustration	Q'ty	Remarks
①	Washer		4	For assembling the stand
②	Wall-mounting fixture		2	For wall-mounting
③	Clamp		1	For power cord when using the stand
④	Power cord		1	The illustration of the power cord is for the United States. The shape of the plug may vary depending on country/area.

3.3.3. Preparation

1. Collapse the shipping box.



2. Remove the protective plastic bag and lay down the unit onto the shipping box with the screen film surface facing downward.

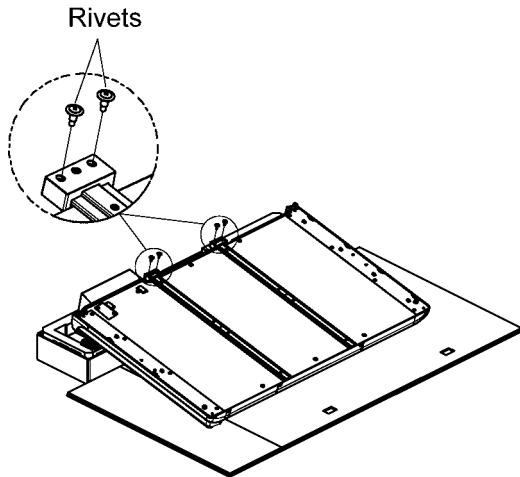


Note:

Make sure that the cushioning material and other packing materials do not strike the screen film. (Contact may damage the screen film.)

3.3.4. Installing Panaboard on a wall

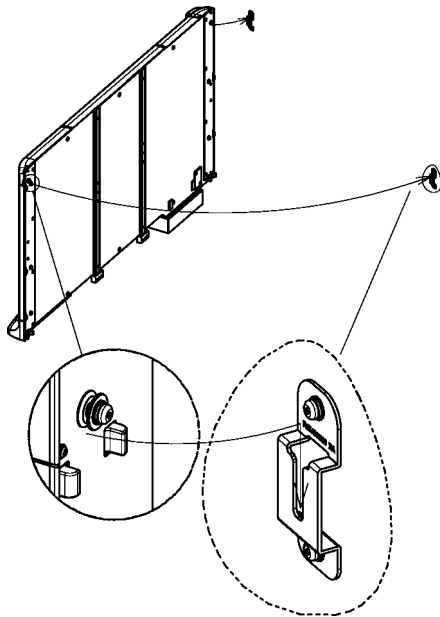
1. Remove the 4 rivets.



Note:

To remove the rivets, turn them counterclockwise with a screwdriver. (The fixed part of the rivets will be raised.)

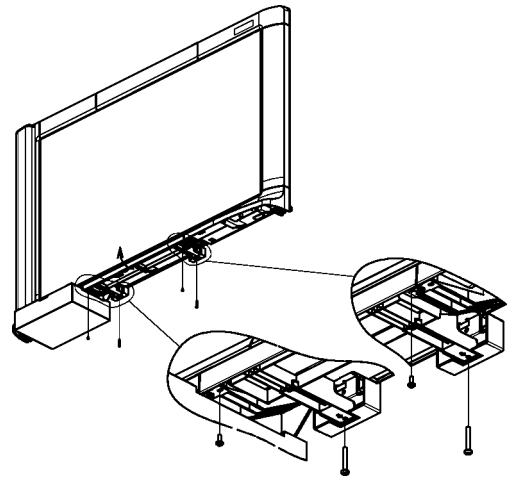
2. Hang the 2 Wall-mounting Shafts of the unit to the Wall-mounting Fixtures.



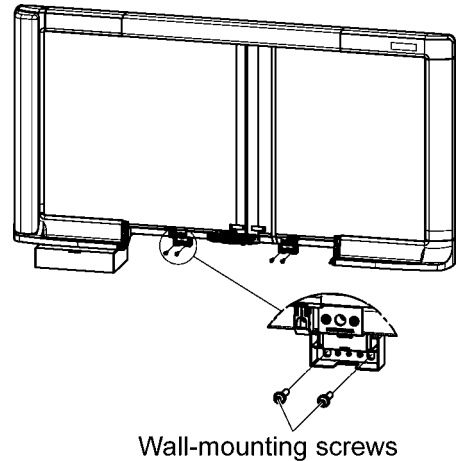
Note:

Ensure that the shafts fall into the grooves of the Wall-mounting Fixtures. If the shafts do not fit to the grooves, adjust the position of the Wall-mounting Fixtures.

3. Unscrew the 4 screws to remove the Cover Lower Assy.



4. Fasten the wall-mounting clasps of the unit securely to the wall with the 4 appropriate Wall-mounting screws.



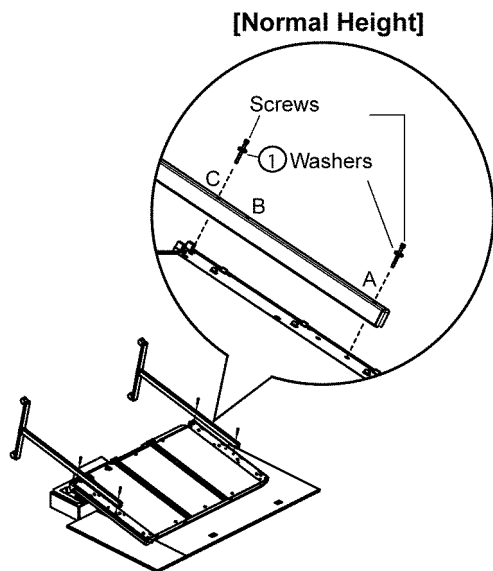
Note:

The 4 Wall-mounting screws are not included with the electronic board. Please purchase M6-size screws appropriate for your wall.

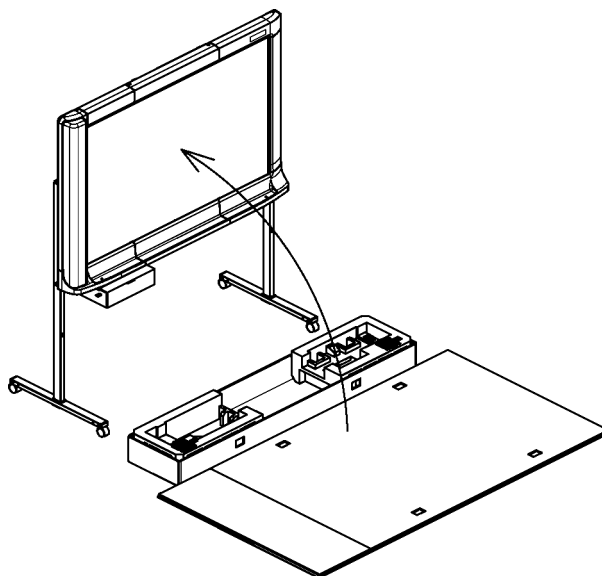
5. Attach the Cover Lower Assy. again.

3.3.5. Installing Panaboard to the optional Stand

1. Attach the optional Stand to the unit.
 - Each Stand has 3 holes (A, B, C).
 - 1) Attach the Stand to the unit with the locking caster up.
 - 2) When attaching the unit to the Stand at normal height (1,830 mm [6' 2/32"]), tighten the 2 screws (included in the Stand) with washers using the hexagonal wrench through holes A and C.



2. Stand the unit up.



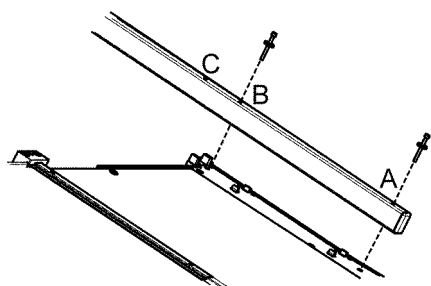
3. Attach the rivets (included in the Stand) to the holes in the Stand that are not already in use.
 - Normal height: 2 places
 - Higher than normal height: 4 places

Note:

1. Use the washers included with the electronic board. Do not use the washers included with Stand.
2. Do not tighten the screws too much. This may deform the Stand.
3. By tightening the two screws with washers through holes A and B, the unit will be positioned 100 mm (3 15/16") higher than normal height (1,930 mm [6' 4"]).

4. Attach the clamp for the Power Cord to the upper side of the Stand on the control box side.

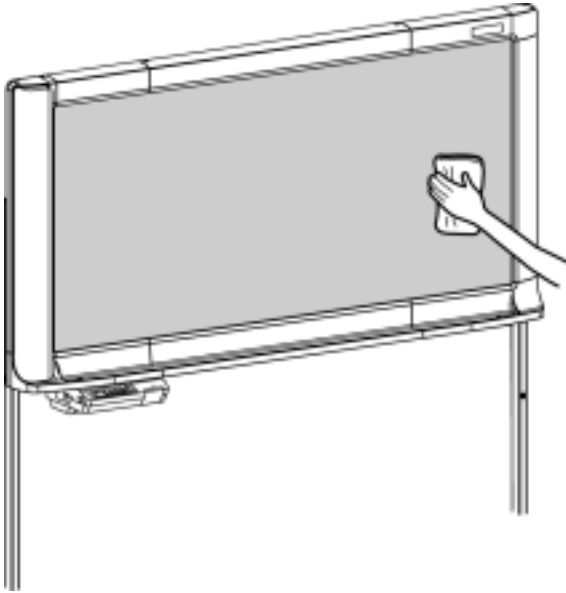
[Higher than Normal Height]



3.4. Operation Check and Settings before using Panaboard

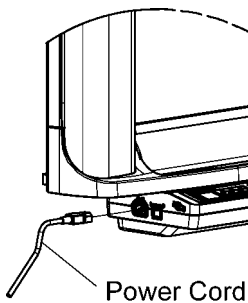
3.4.1. Before Operation Check

1. Wipe the screen film surface.
 - Soak a soft cloth with water, wring well, and wipe the screen film surface.

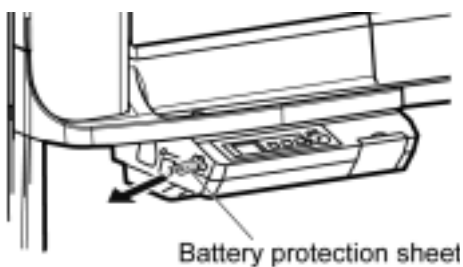


Note:

1. Do not wipe the screen film surface with paint thinner, benzene, or cleaners that contain abrasives. Doing so may cause discoloration.
 2. Do not wipe the screen film surface with a dry cloth. Doing so may create static electricity.
-
2. Attach the Power Cord.
 - Securely fit the included Power Cord in the AC inlet of the control box.

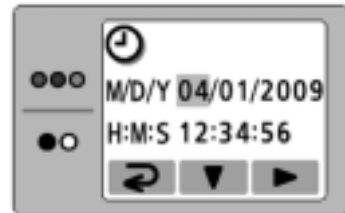


3. Remove the battery protection sheet.



3.4.2. Setting the time


1. Turn the power switch on.
 - The time set-up screen is displayed automatically when the power switch is turned on for the first time. If the time set-up screen is not displayed even when the power switch is turned on, push the Set-up Key on the Control Panel to enter the setting mode, then push the Set-up Key (▼) repeatedly to select the time set-up mode, and then push the Advance Key (▶).



2. Set the current time.
 - The value can be changed by pushing the Set-up Key (▼), and select the setting by pushing the Advance Key (▶).
3. Push the Mode Key (↻) to set the time.

3.4.3. Operation Check Procedure

After assembling the unit and setting the time, perform the procedures presented in the following table to make sure it functions properly.

Step		Points to Check	
		Condition	Solutions
1	Turn the power switch on.	The standby message is displayed after the initial message is displayed.	(Normal operation)
		Display does not appear.	Check the power cord. (See Sec. 3.4.1.)
		An error code appears on the display.	See Sec. 5.
2	Push the Advance Key.	Screen is fed.	(Normal operation)
		The screen film surface is not fed smoothly.	See Sec. 5.
		There are strange noises.	
3	Connect a USB Flash Memory Device or SD Memory Card.	The USB Flash Memory Device or SD Memory Card installed is shown on the display.	(Normal operation)
		(If not)	See Sec. 5.
4	① Use the accessory marker to draw a large  across the entire scannable area of the screen film surface. <ul style="list-style-type: none"> • For information on the scannable area, refer to Sec. 2 . ② Push the Start/Stop Key.	The screen film moves smoothly and the scanned image appears on the display.	(Normal operation)
		(If not)	See Sec. 5.
5	Zoom in on several areas of the scanned image.	A black or white horizontal line appears on the scanned image, or the image scanned is dark or blank.	Check the strong lighting.
		The entire scannable area is not scanned.	See Sec. 5.
6	Turn off the power switch, then turn back on after 3 minutes.	The standby message is displayed after the initial message is displayed.	(Normal operation)
		The time is not correct.	Check the battery. (See Sec. 3.4.1.)

3.5. Repacking

Perform the above Assembly Steps Sec.3.3.1 to Sec3.3.5 in reverse order to repack the unit and accessories.

Note:

When handling the screen unit, grasp the side cover on either side of screen. Do not grasp the screen film surface, as this may scratch it.

3.6. Wall Mounting Construction

3.6.1. Checking the wall

When mounting on a wall, consult with your building's owner, caretaker or construction manager to determine if the wall strength is sufficient to install this unit. For safety, install this unit only after thoroughly understanding the type of walls, the appropriate types of screws and the construction method.

Caution:

Do not attach the electronic board to mortared walls. Accidental electric leakage from the Wall-mounting Fixture screws to metal laths or wire laths can cause heat, smoke or fire.

3.6.1.1. Necessary Tools and Parts (not included with the product)

- (1) Drill
- (2) Screwdriver
- (3) Measuring tape
- (4) Level
- (5) 8 screws (M6 size)

3.6.1.2. Before Starting

1. Make sure that the wall is strong enough to support the following weight.

For UB-5838C: 1,373 N [140 kgf (309 lbf)]

For UB-5338C: 1,275 N [130 kgf (287 lbf)]

Note:

If necessary, reinforce the wall so that it is strong enough to support the unit.

2. Make sure that the location is large enough to accommodate the unit.

For UB-5838C: 1,125 mm (H) × 1,998 mm (W) [3' 8 19/64" (H) × 6' 6 43/64" (W)]

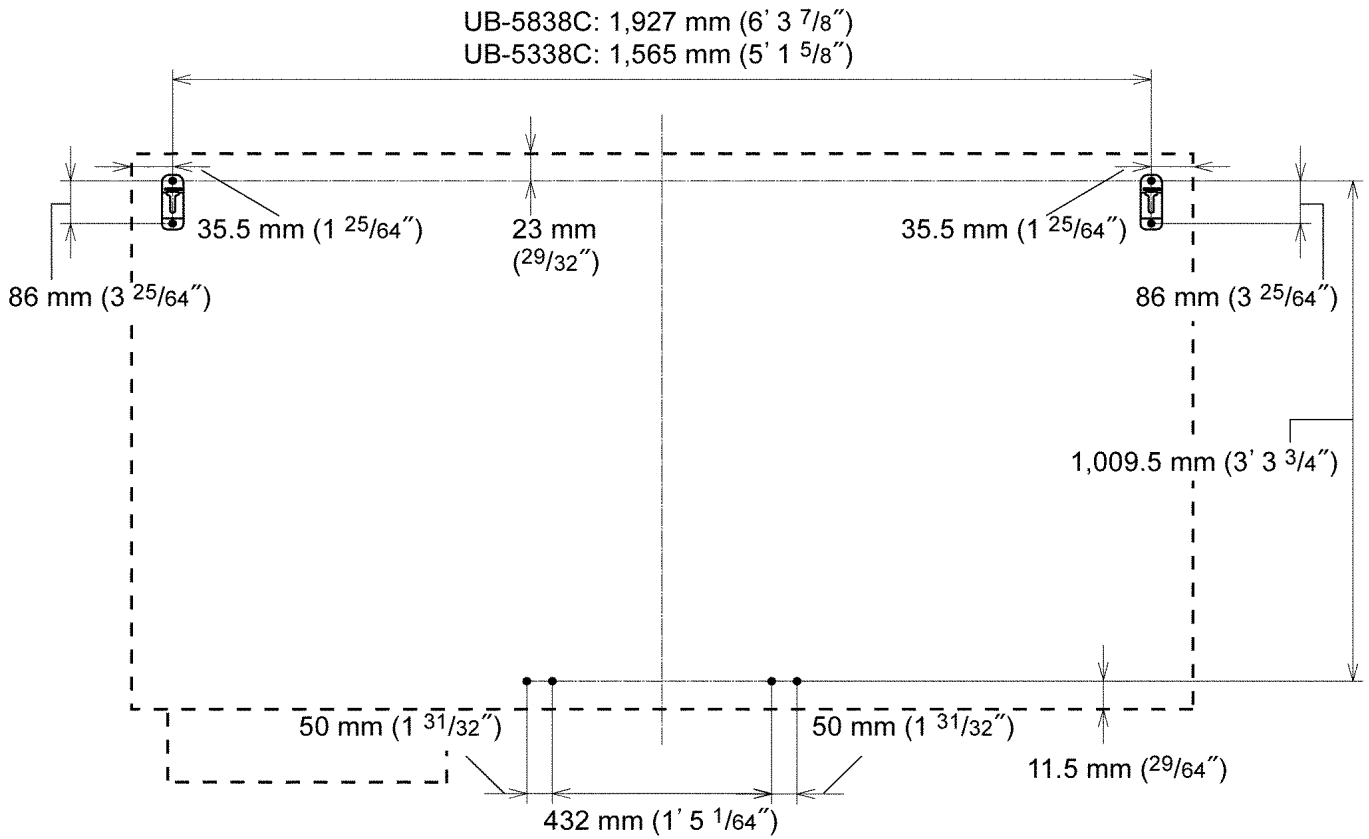
For UB-5338C: 1,125 mm (H) × 1,636 mm (W) [3' 8 19/64" (H) × 5' 4 27/64" (W)]

3. Make sure that the AC outlet is within 3 m (9' 10 1/8") of where the unit will be mounted and that it will not be behind the unit.

3.6.2. Installing the Wall-Mounting Fixtures

1. Ensure that the wall is strong enough to support the unit.
 For UB-5838C: 1,373 N [140 kgf (309 lbf)]
 For UB-5338C: 1,275 N [130 kgf (287 lbf)]

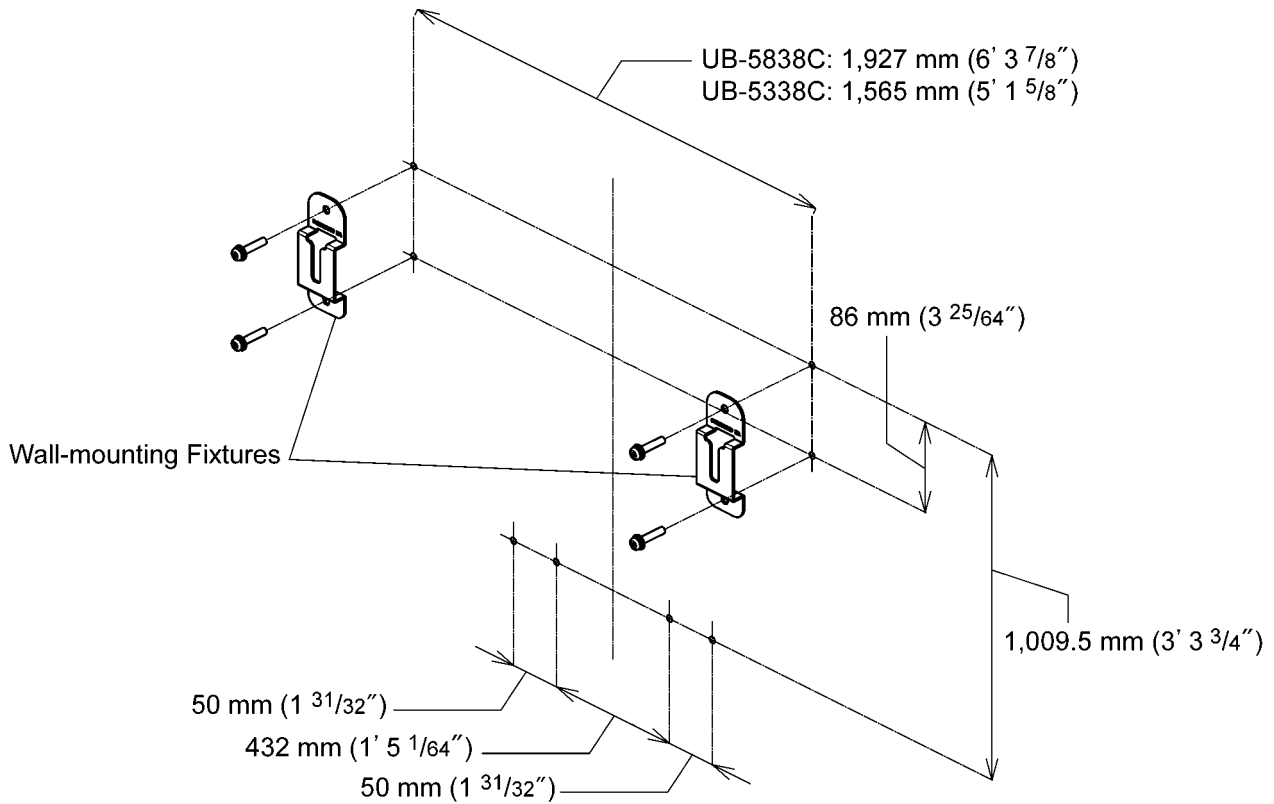
2. Using the measuring tape and level, mark the 8 locations to insert the screws.



Note:

1. Note the difference in the hole position for UB-5838C and UB-5338C.
 2. Make sure that the position of the holes are level and perpendicular to each other (i.e., the unit will not be crooked).
 3. The lateral tolerance of the hole position of the Wall-mounting Fixture is ± 1.5 mm (1/16").
3. Drill 8 holes.
 Drill holes that are appropriate for the screws you are using.

4. Install the Wall-mounting Fixtures using the 4 screws.
 2 screws are used for each wall-mounting plate.
 The remaining 4 screws are used after installing the unit on the wall.



Note:

1. Screws (8 count) are not included with the product. Please purchase screws with a size of M6, appropriate for your type of wall.
2. Tighten the Wall-mounting screws so that they will not become loose.
3. When drilling the holes and installing the wall-mounting fixtures, follow the procedure in "Wall Types and Installation Procedures".

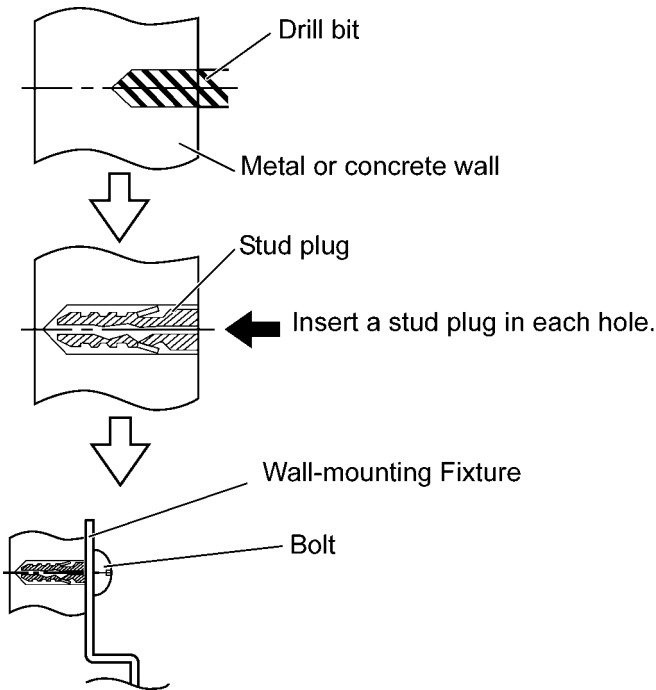
5. Mount the unit on the wall. (See Sec. 3.3.4.)

3.6.3. Wall Types and Installation Procedures

The method for attaching the Wall-mounting Fixtures to the wall will vary depending on the nature of the wall's structure. Three available options are listed below. Other methods may be necessary depending on the wall.

3.6.3.1. Metal or Concrete walls

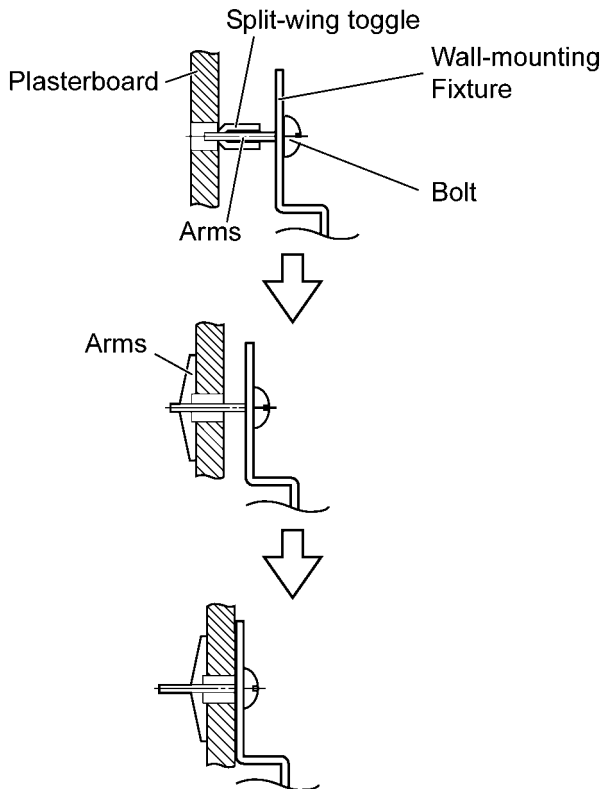
Stud plugs (sold in stores) are needed.



1. Drill eight holes in the wall. For the correct hole size, refer to the instructions for the particular stud plugs used.
2. Insert a stud plug in each hole.
3. Insert the bolt through a hole in the Wall-mounting Fixture and tighten until the Wall-mounting Fixture is securely fixed to the wall.

3.6.3.2. Plasterboard walls

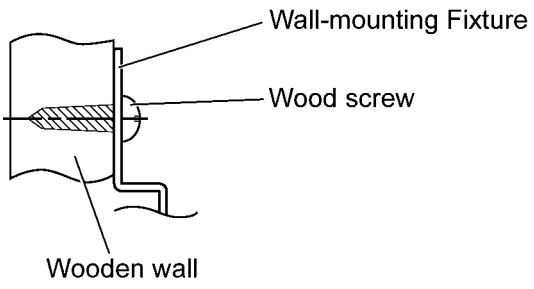
Split-wing toggles (sold in stores) are needed.



1. Insert the bolt through the hole in the Wall-mounting Fixture and attach the split-wing toggle. Then insert the split-wing toggle into the hole while the arms are horizontal. For the correct hole size, refer to the instructions for the particular split-wing toggles used.
2. After the arms expand, pull the Wall-mounting Fixture out until the arms of the split-wing toggle grip firmly into the wall.
3. Tighten the bolt until the Wall-mounting Fixture is securely fixed to the wall.

3.6.3.3. Wooden walls

Wood screws (sold in stores) are needed.



Insert the wood screw through the hole in the Wall-mounting Fixture and tighten until the Wall-mounting Fixture is securely fixed to the wall.

For the correct hole size, refer to the instructions for the particular wood screws used.

4 Mechanism

4.1. Screen Feed Mechanism

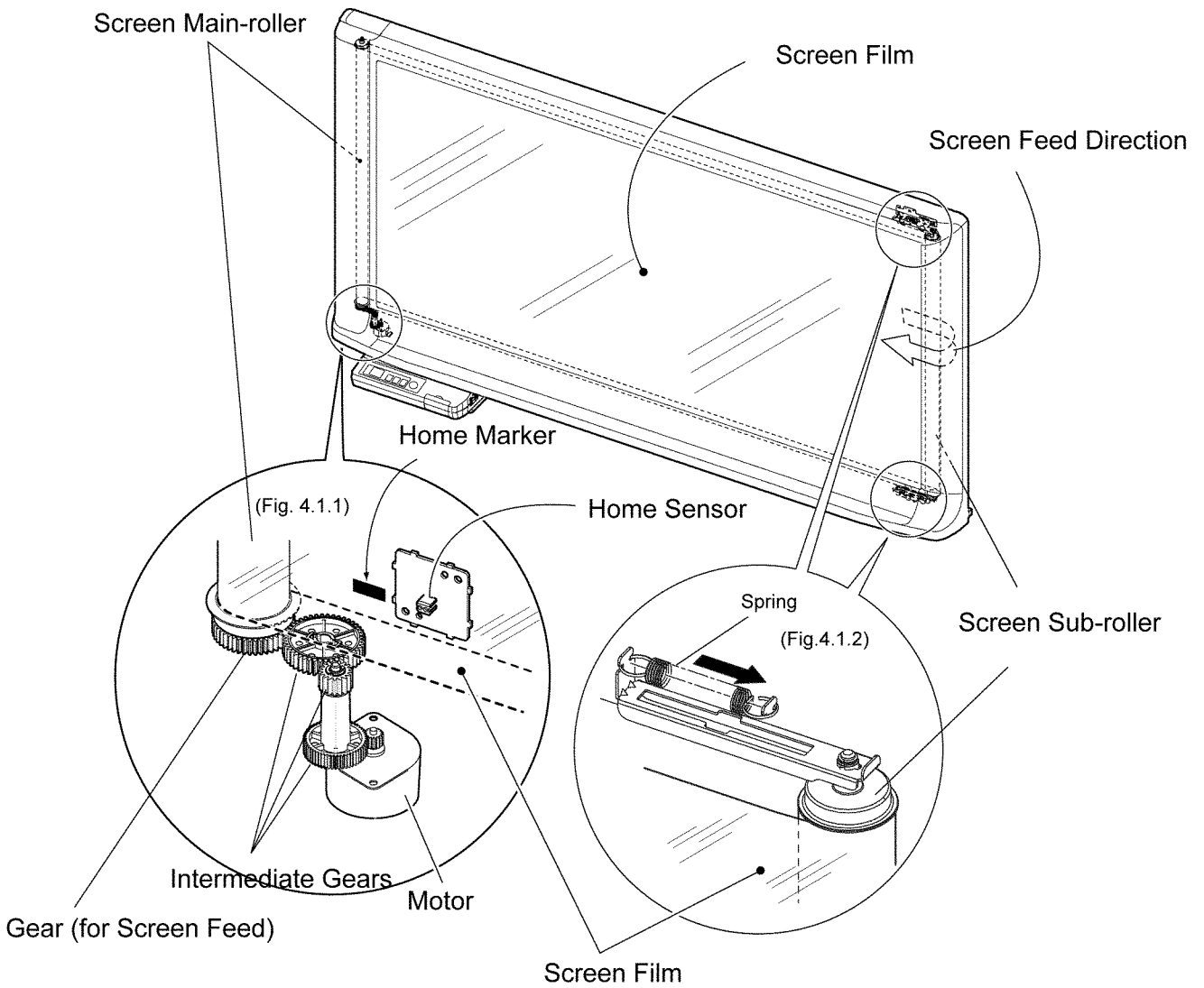
When the Motor rotates, the Gear of the Screen Main-roller is activated accordingly via the Intermediate Gears. Two springs on the upper and lower positions adjust the Screen Film tension in the direction of the arrow so as to bring the Screen Sub-roller into contact with the film.

As shown on the Fig.4.1.1, the Home Marker is attached on the lower position of the scrolled Screen Film so as to tell Panaboard the screen home position required to feed the screen.

Then the Home Sensor is located on the back of the unit so as to detect the home position.

When the sensor detects the home position, the sensor will inform the control operation block in the CONTROL Board about the status.

Based on the status, Panaboard will start or stop the screen-feed.



4.2. Scanning Mechanism

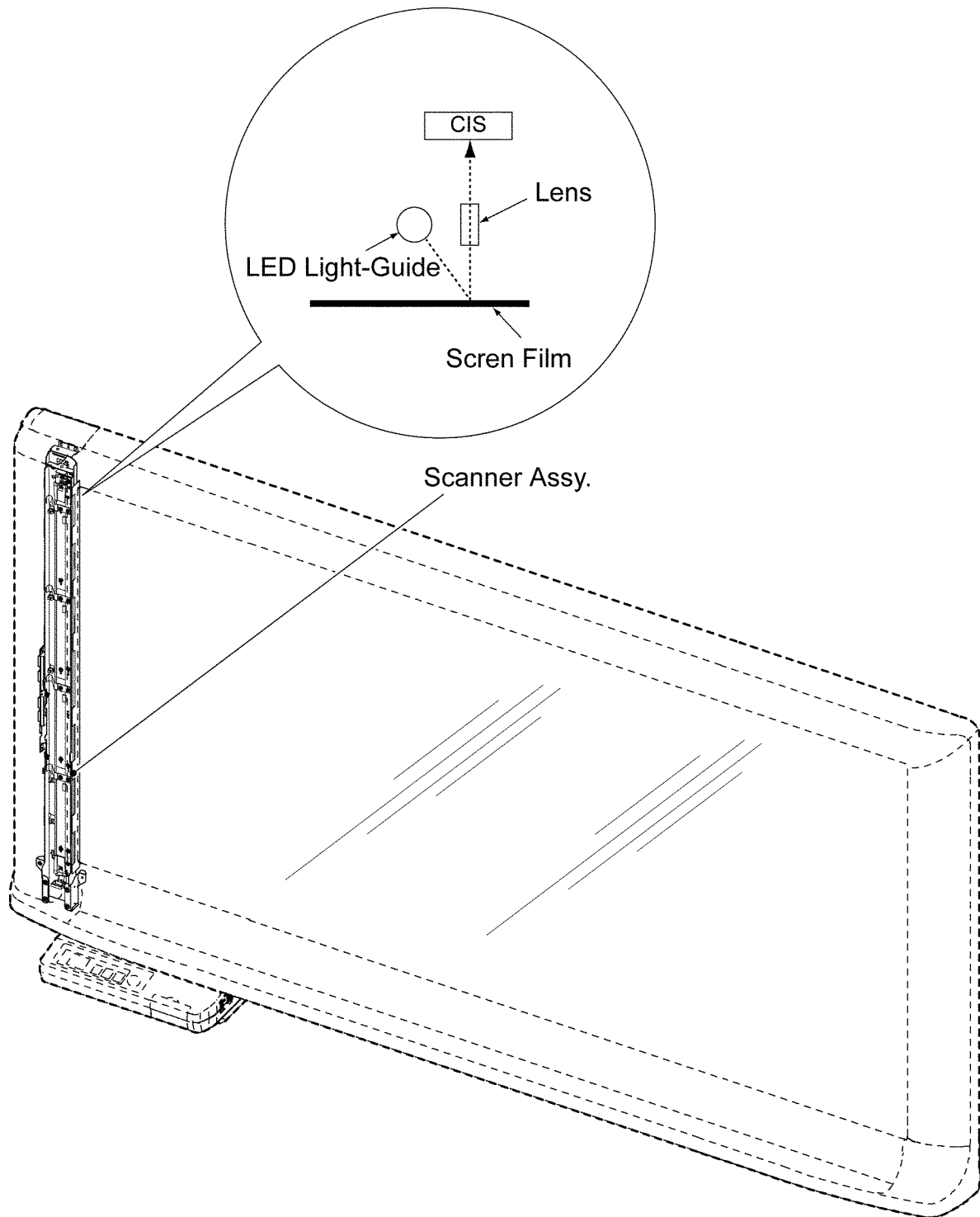
The Scanner Assy. consists of LED Light-Guide, Lens, and Contact Image Sensors so as to scan the image on the Screen Film.

A light through the LED Light-Guide is reflected from the screen film surface.

Then the reflected light will reach the Contact Image Sensors (CIS) through the Lens. The CISs will convert the light into electrical signals, and then will transmit the signals to the SCANNER Board.

Then the SCANNER Board will convert the signals into image digital signals, and will transmit the digital signals to the CONTROL Board.

Then the CONTROL Board will store them in its inner memories so that they can be downloaded to a USB Flash Memory and a SD Card, or can be printed out with a printer.



5 Troubleshooting Guide

5.1. Error Code

Error Code		Possible Cause	Check Point
Display	Code Name		
F505001	USB Host Error	USB Host (IC12) Access Error	<ol style="list-style-type: none"> 1. Check the soldering condition of IC12 (USB Host) on the CONTROL Board. 2. Replace the faulty part or CONTROL Board.
F505002	USB Device Error	USB Device (IC13) Access Error	<ol style="list-style-type: none"> 1. Check the soldering condition of IC13 (USB Device) on the CONTROL Board. 2. Replace the faulty part or CONTROL Board.
F506144	SD Memory Card Write Error	Write Error to SD Memory Card occurred while scanning	<ol style="list-style-type: none"> 1. Confirm that write to the SD Memory is correctly performed with a PC.
F507144	USB Flash Memory Write Error	Write Error to USB Flash Memory occurred while scanning	<ol style="list-style-type: none"> 1. Confirm that write to the USB Flash Memory is correctly performed with a PC.
F603001	AFE Error	AFE (Analog Front End: IC602) Access Error	<ol style="list-style-type: none"> 1. Check the connection between CN606 (SCANNER Board) and CN5 (CONTROL Board). 2. Check the soldering condition of IC602 (AFE) on the SCANNER Board. 3. Check the soldering conditions of the following parts. <ul style="list-style-type: none"> (1) IC6 (CONTROL Board) (2) IC604 (SCANNER Board) 4. Replace faulty parts, SCANNER Board, or CONTROL Board.
F603002	CIS Error	<ol style="list-style-type: none"> 1. SOC (IC4: CONTROL Board) did not receive the signals from CIS. 2. CIS is broken. 3. LED isn't on. 	<ol style="list-style-type: none"> 1. Check the connection between CN606 (SCANNER Board) and CN5 (CONTROL Board). 2. Check the connection between CN4 (CONTROL Board) and CN800 (MOTOR DRIVE Board). 3. Check the connection between CN604 (SCANNER Board) and CN801 (MOTOR DRIVE Board). 4. Check the connection between CN605 (SCANNER Board) and Scanner Assy. 5. Check the connections between CIS and CN600 to CN603 (SCANNER Board). 6. Check the soldering conditions of the following parts on the SCANNER Board. <ul style="list-style-type: none"> → IC600, IC602 to IC610, IC614, and Q601 to Q606 7. Check the soldering conditions of the following parts on the CONTROL Board. <ul style="list-style-type: none"> → IC6, IC7, IC8, and IC10 8. Replace faulty parts, Scanner Assy., SCANNER Board, or CONTROL Board.
F603003	CIS Signal Error (beyond the specified level)	<ol style="list-style-type: none"> 1. CIS signal is saturated due to incoming light or sunlight to the CIS. 2. CIS is broken. 3. CIS signal that SOC(IC14: CONTROL Board) received is saturated. 	<ol style="list-style-type: none"> 1. Check that the screen surface for shading is not dirty. 2. Check the connection between CN606 (SCANNER Board) and CN5 (CONTROL Board). 3. Check the connection between CN4 (CONTROL Board) and CN800 (MOTOR DRIVE Board). 4. Check the connection between CN604 (SCANNER Board) and CN801 (MOTOR DRIVE Board). 5. Check the connection between CN605 (SCANNER Board) and Scanner Assy. 6. Check the connections between CIS and CN600 to CN603 (SCANNER Board). 7. Check the soldering conditions of the following parts on the SCANNER Board. <ul style="list-style-type: none"> → IC600, IC602 to IC610, IC614, and Q601 to Q606 8. Check the soldering conditions of the following parts on the CONTROL Board. <ul style="list-style-type: none"> → IC6, IC7, IC8, and IC10 9. Replace faulty parts, Scanner Assy., SCANNER Board, or CONTROL Board.



Error Code		Possible Cause	Check Point
Display	Code Name		
F616001	CPU Error	SOC (IC4: CONTROL Board) is faulty.	1. Replace the CONTROL Board.
F616002	Flex RISC Error		
F616003	DSP Error		
F616004	Flash ROM Error	1. Data from SOC (IC4: CONTROL Board) or from Flash ROM (IC2) is faulty. 2. Flash ROM (IC2) access error occurred.	1. Check the soldering condition of IC2 (Flash ROM) on the CONTROL Board. 2. Replace faulty parts or CONTROL Board.
F616005	SDRAM Error	1. Data from SOC (IC4: CONTROL Board) or from SDRAM (IC3) is faulty. 2. SDRAM access error occurred.	1. Check the soldering condition of IC3 (SDRAM) on the CONTROL Board. 2. Replace faulty parts or CONTROL Board.
F616006	RTC Error	1. RTC (Real Time Clock: IC19) access error occurred.	1. Check the soldering condition of IC19 (RTC) on the CONTROL Board. 2. Replace faulty parts or CONTROL Board.
F616007	LCD Error	LCD Access Error	1. Check the connection between CN700 (PANEL Board) and CN7 (CONTROL Board). 2. Check the connection between CN701 (PANEL Board) and LCD. 3. Check the soldering conditions of the following parts. (1) IC16 and IC17 (CONTROL Board) (2) IC700 and IC701 (PANEL Board) 4. Replace faulty parts, LCD, PANEL Board, or CONTROL Board.
U103021	Dark Level Adjustment Error	1. CIS signal is saturated due to incoming light or sunlight to the CIS. 2. Dark off-set level (IC602: SCANNER Board) cannot be properly adjusted. 3. CIS is broken. 4. SOC (IC4: CONTROL Board) didn't receive the proper signal from CIS.	1. Check that the screen surface for shading is not dirty. 2. Check the connection between CN606 (SCANNER Board) and CN5 (CONTROL Board). 3. Check the connection between CN4 (CONTROL Board) and CN800 (MOTOR DRIVE Board). 4. Check the connection between CN604 (SCANNER Board) and CN801 (MOTOR DRIVE Board). 5. Check the connection between CN605 (SCANNER Board) and Scanner Assy. 6. Check the connections between CIS and CN600 to CN603 (SCANNER Board). 7. Check the soldering conditions of the following parts on the SCANNER Board. → IC600, IC602 to IC610, IC614, and Q601 to Q606 8. Check the soldering conditions of the following parts on the CONTROL Board. → IC6, IC7, IC8, and IC10 9. Replace faulty parts, Scanner Assy., SCANNER Board, CONTROL Board, or CIS.
U103022	Light Quantity Adjustment Error	1. CIS signal is saturated due to incoming light or sunlight to the CIS. 2. LED quantity is not proper to scan.	1. Check that the screen surface for shading is not dirty. 2. Check the soldering conditions of the following parts on the SCANNER Board. → IC614 and Q601 to Q606 3. Check the soldering condition of IC6 on the CONTROL Board. 4. Replace faulty parts, Scanner Assy., SCANNER Board, CONTROL Board, or CIS.
U103023	Gain Control Error	1. CIS signal is saturated due to incoming light or sunlight to the CIS. 2. AFC IC (IC602: SCANNER Board) did not control the gain correctly.	1. Check that the screen surface for shading is not dirty. 2. Check the soldering conditions of the following parts on the SCANNER Board. → IC614 and Q601 to Q606 3. Check the soldering condition of IC6 on the CONTROL Board. 4. Replace faulty parts, Scanner Assy., SCANNER Board, CONTROL Board, or CIS.

Error Code		Possible Cause	Check Point
Display	Code Name		
U103024	Dark Data Error	<ol style="list-style-type: none"> Dark data level is not proper as the scanned data. CIS is damaged. 	<ol style="list-style-type: none"> Check that the screen surface for shading is not dirty. Check the connection between CN606 (SCANNER Board) and CN5 (CONTROL Board). Check the connection between CN4 (CONTROL Board) and CN800 (MOTOR DRIVE Board). Check the connection between CN604 (SCANNER Board) and CN801 (MOTOR DRIVE Board). Check the connection between CN605 (SCANNER Board) and Scanner Assy. Check the connections between CIS and CN600 to CN603 (SCANNER Board). Check the soldering conditions of the following parts on the SCANNER Board. → IC600, IC602 to IC610, IC614, and Q601 to Q606 Check the soldering conditions of the following parts on the CONTROL Board. → IC6 to IC10 Replace faulty parts, Scanner Assy., SCANNER Board, CONTROL Board, or CIS.
U103025	White Data Error	<ol style="list-style-type: none"> CIS signal is saturated due to incoming light or sunlight to the CIS. CIS is damaged. Lens is dirty. 	<ol style="list-style-type: none"> Check that the screen surface for shading is not dirty. Wipe off the dirt on the lens surface. Replace faulty parts or Scanner Assy.
U306001 U306002	Un-supported SD Memory Card	<ol style="list-style-type: none"> SDHC Memory Card is set to this unit. Unusable SD Memory Card is set to this unit. SD Memory Card is not proper format for this unit. 	<p>Must not use a SDHC Memory Card.</p> <p>Format to comply with SD memory card specifications using the formatting software that can be downloaded from the following site. http://panasonic.jp/support/global/cs/sd/download/sd_formatter.html</p>
U306010	Unavailable space in SD Memory Card	In the SD Memory Card, there is not enough storage space available.	1. Make space available with a PC.
U306014	Folder on SD Memory Card Read Only	The following folders in the SD Memory Card are set to "Read Only". (1) For UB-5838C Folder Name: "UB-5838C" (2) For UB-5338C Folder Name: "UB-5338C"	1. Change the folder property to "Read / Write".
U306035	SD Memory Card Write-protection	The SD Memory Card has been set to write-protection.	1. Cancel the write-protection.
U306144	SD Memory Card Write Error	During scanning, SD Memory Card Write Error occurred.	1. Check whether the SD memory card is normally written with a PC.
U306160	Same as "U306014"		
U307001 U307002	Un-supported USB Flash Memory Device	1. Unusable USB Flash Memory Device is set to this unit.	1. Replace the USB Flash Memory Device so that the device meets the requirements of this unit.
U307010	Unavailable space in USB Flash Memory Device	In the USB Flash Memory Device, there is not enough storage space available.	1. Make space available with a PC.
U307014	Folder on USB Flash Memory Device Read Only	The following folders in the USB Flash Memory Device are set to "Read Only". (1) For UB-5838C Folder Name: "UB-5838C" (2) For UB-5338C Folder Name: "UB-5338C"	1. Change the folder property to "Read / Write".

Error Code		Possible Cause	Check Point
Display	Code Name		
U307035	USB Flash Memory Device Write-protection	The USB Flash Memory Device has been set to write-protect.	1. Cancel the write-protection.
U307037	FAT 16 Format Error	USB Flash Memory Device with a un-supported FAT16 Format is set to this unit.	1. Re-format the USB Flash Memory Device with the FAT32 Format.
U307144	USB Flash Memory Device Write Error	USB Flash Memory Device Write Error occurred.	1. Check whether the USB Flash Memory Device can be correctly written with a PC.
U307160	Same as "U307014"		
U307161	Same as "U307001"		
U308001	Un-supported Printer Connection	A un-supported printer for this unit is connected.	1. Connect a printer that meets the requirements of this unit.
U308002	Printer Paper Empty	Paper set in the printer is empty.	1. Set paper in the printer according to the Operation Instructions for the printer.
U308003 U308004	Printer Error	There is a Printer error.	1. Fix the printer error according to the printer manual.
U314161	Un-supported Printer Connection	A un-supported printer for this unit is connected.	1. Connect a printer that meets the requirements of this unit.
U314224	Printer Error	The printer does not work correctly.	1. Restart the printer and then check its operations.
U314225	Printer Ink Empty	The ink in the printer is empty.	1. Replace the ink cartridge according to the Operation Instructions for the printer.
U314226	Printer Paper Empty	Paper set in the printer is empty.	1. Set paper in the printer according to the Operation Instructions for the printer.
U314227	Printer Paper Jam	A paper jam in the printer occurred.	1. Remove the jamming paper in the printer.
U314228	Printer Working	The printer is working now.	1. After confirming that the printer changes to "Ready", perform the copy function for the printer.
U314229 U314231	Printer Communication Error	During printing, an error of the communication between the printer and this unit occurred.	1. After confirming the connection between the printer and Panaboard, restart the printer and then check its operations.
U402002	No Output Device	There is no device to output.	1. Set a USB Flash Memory Device, a SD Memory Card, a printer, or a PC that meets the requirements of this unit.
U403012	Screen Feed Error	1. Screen Film did not reach its home position. 2. The Home Marker is peeled off. 3. Home Sensor did not work correctly.	1. Check whether the Home Marker is attached on the Screen Film. 2. Check the connection between CN4 (CONTROL Board) and CN800 (MOTOR DRIVE Board). 3. Check the connection between CN802 (MOTOR DRIVE Board) and Motor. 4. Check the soldering conditions of IC800 and Q800 on the MOTOR DRIVE Board. 5. Check the soldering conditions of IC9 and R280 to R283 on the CONTROL Board. 6. Replace faulty parts, Motor, MOTOR DRIVE Board, or CONTROL Board.
U403021	Same as "U103021"		
U403022	Same as "U103022"		
U403023	Same as "U103023"		
U403024	Same as "U103024"		
U403025	Same as "U103025"		
U406010	SD Memory Card Full	The available space in the SD Memory Card became full while scanning.	Make the available space with a PC and then scan again.
U406035	Same as "U306014"		

Error Code		Possible Cause	Check Point
Display	Code Name		
U406208	File Full	A sequential number of the file name has reached 99.	1. Transfer some images in the following folder of a USB Flash Memory Device or of a SD Memory Card to another folder. (1) For UB-5838 "UB-5838" (2) For UB-5338 "UB-5338"
U406209	Removed SD Memory Card	The SD Memory Card was removed while scanning.	1. Set the SD Memory Card and then restart scanning.
U407010	USB Flash Memory Device Full	The available space in the USB Flash Memory Device became full while scanning.	Make the available space with a PC and then scan again.
U407035	Same as "U307014"		
U407208	Same as "U406208"		
U407209	Removed USB Flash Memory Device	The USB Flash Memory Device was removed while scanning.	1. Set the USB Flash Memory Device and then restart scanning.
U413010	In short supply of Memory to scan	The inner memories in this unit became full while scanning.	1. Make space available with a PC and then restart scanning.
U413209	Removed USB Cable to PC during operations	The USB cable was removed while a PC was receiving data from this unit.	1. After reducing drawings or attached chart on the Screen surface, restart scanning.
U414209	Removed USB Cable to a printer during printing	The USB cable was removed during execution of a printing job.	1. Connect the USB cable to a printer firmly, and then perform the printing job.

5.2. Printing Problems

Phenomenon	Possible Cause	Check Point
Printing function does not operate.	Panaboard (This unit) does not recognize its being connected to a printer.	<p>1. Check that the standby state is as follows when restarting this unit.</p>  <p>2. Check whether a printer is properly connected to this unit (Panaboard) or is supplied with power.</p> <p>3. Check whether a printer is available for this Panaboard. → For information regarding available printers, refer to the following site: http://panasonic.co.jp/pcc/products/en/eboard/ub-5838c_info.htm</p>
	The illustration of USB Flash Memory Device or SD Memory Card is displayed at the center of LCD.	<p>1. Remove the USB Flash Memory Device or SD Memory Card from the unit (Panaboard), and then check whether that removal changes the illustration to the printer's.</p>
Defects in the printed image	The amount of the printer ink is enough to print out.	<p>1. Check whether the phenomenon is reproduced with the Panaboard's printing test as follows. (Procedures for Panaboard's printing test)</p> <p>(1) Push the Set-up Key.</p> <p>(2) Push the Set-up Key repeatedly to select the following item (Item: Testing the Printer)</p>  <p>(3) Push the Advance Key to perform the test printing.</p> <p>(4) Push the Mode Key to return the standby mode.</p> <p>2. Replace the ink cartridge according to the operation instructions for the printer.</p>
Panaboard test pattern cannot be printed out at all.	The printer has some problems.	<p>1. Maintain the printer according to the operation instructions for the printer.</p>

5.3. Others

Phenomenon	Possible Cause	Check Point
Nothing is indicated on the display.	1. DC power from the POWER Board is not correctly supplied.	<ol style="list-style-type: none"> Restart this unit (Panaboard) and then check whether this phenomenon is reproduced. Check the connection between the POWER Board and CONTROL Board (CN6). Check the following signals on the CONTROL Board. <ol style="list-style-type: none"> CL13: + 24 V CL14: + 5 V CL15: + 3.3 V Check the soldering condition of R420 on the CONTROL Board. Replace faulty parts, CONTROL Board, or POWER Board
	2. CONTROL Board does not work properly.	<ol style="list-style-type: none"> Restart this unit (Panaboard) and then check whether this phenomenon is reproduced. Check the soldering conditions of CPU (IC4), ROM (IC2), and RAM (IC3) on the CONTROL Board. Check the following signals on the CONTROL Board. <ol style="list-style-type: none"> X1-3rd pin, IC5-6th pin: 48 MHz CL17: + 1.8 V L55: + 3.3 V CL3: 100 MHz IC15-1st pin (Reset signal): + 3.3 V Replace faulty parts or CONTROL Board.
	3. PANEL Board does not work properly, or its board connections to some other parts are not proper to display.	<ol style="list-style-type: none"> Restart this unit (Panaboard) and then check whether this phenomenon is reproduced. Check the connection between CN700 (PANEL Board) and CN7 (CONTROL Board). Check the connection between CN701 (PANEL Board) and LCD. Check the soldering conditions of IC700 and IC701 on the PANEL Board. Check the soldering conditions of IC16, IC17, and IC20 on the CONTROL Board. Check the following signals on the PANEL Board. <ol style="list-style-type: none"> CL728: + 5.0 V CL729: + 3.3 V Replace faulty parts, CONTROL Board, or PANEL Board.
Key operation is not recognized.	1. A problem with the key mechanism	<ol style="list-style-type: none"> Restart this unit (Panaboard) and then check whether this phenomenon is reproduced. Check that pushing each key comes into contact with the switch block. Replace the key, panel sheet, or PANEL Board.
	2. A problem with key operating circuit	<ol style="list-style-type: none"> Check the connection between CN700 (PANEL Board) and CN7 (CONTROL Board). Check the mechanical and soldering conditions of SW700 to SW703 on the PANEL Board. Check the soldering conditions of the following parts on the PANEL Board. <ul style="list-style-type: none"> → IC704, IC703, R740 to R742, and R744 Check the soldering conditions of the following parts on the CONTROL Board. <ul style="list-style-type: none"> → IC16, IC17, and IC20 Replace faulty parts, CONTROL Board, or PANEL Board.
When pushing the Start/Stop Key to perform the copy function, Screen-feed does not start.	A Device for outputting the scanned image is not specified.	<ol style="list-style-type: none"> Insert a USB Flash Memory Device or SD Memory Card into the unit (Panaboard), or connect a PC or a printer to the unit. Then confirm whether the device illustration you need is displayed on the LCD.
	A static electricity on the screen surface prevents the screen from advancing.	<ol style="list-style-type: none"> Turn off the unit and then slowly move the screen by hand.

Phenomenon	Possible Cause	Check Point
It is difficult to erase drawings on the screen film surface.	<ol style="list-style-type: none"> 1. They were drawn fast. 2. They had been erased before the ink dried completely. 3. Cleaners including a surface-active agent were used. 	<ol style="list-style-type: none"> 1. Draw them slowly. 2. Erase them after the ink dries completely. 3. Clean the screen film surface with a water dampened-cloth that has been thoroughly wrung.
A part of drawings on the screen film surface cannot be scanned.	A part of drawings is out of the scanning area the unit (Panaboard) allows to be scanned.	1. Refer to the scannable area on this unit (See Sec. 2.2), then draw and scan again.
The scanned image is blank, light or faint.	The density of the original drawings is light or faint.	1. Make darker drawings or replace markers.
Black or white lines appear on the scanned image, or the scanned image is dark or blank.	1. A dirt is attached to the lens surface for scanning.	1. Wipe off the dirt from the lens surface.
	2. This unit is exposed to direct sun-light.	1. Change the location of the unit to avoid the light.
A USB Flash Memory Device or SD Memory Card is not recognized.	1. The USB Flash Memory Device or SD Memory Card is not available for this unit.	1. Check whether the device or card is available for the unit. → For information regarding available printers, refer to the following site: http://panasonic.co.jp/pcc/products/en/eboard/ub-5838c_info.htm
	2. The USB Flash Memory Device is connected via USB hub.	1. Don't connect the device via USB hub.
It takes a long time to recognize a USB Flash Memory Device.	The device has been never used since it was formatted using FAT32.	1. Use the device once.
Stored image data in a SD Memory Card is rotated by 90 degrees.	The images were stored as JPEG.	1. Rotate them back to the original position with a graphic software.
A PC does not recognize this unit (Panaboard).	1. This unit (Panaboard) isn't set up completely.	<ol style="list-style-type: none"> 1. Wait for a while until the unit is set up perfectly. 2. Restart the unit.
	2. A PC is not properly connected to this unit (Panaboard).	1. Check whether the USB cable between the PC and the unit is connected directly.
When turning on this unit, the time set-up indication is displayed.	The battery is reaching the end of its life.	1. Change the battery and then set up the time.

5.4. Requirements after replacing and servicing

After replacing or servicing the following assemblies or parts, some settings or confirmation will be required.

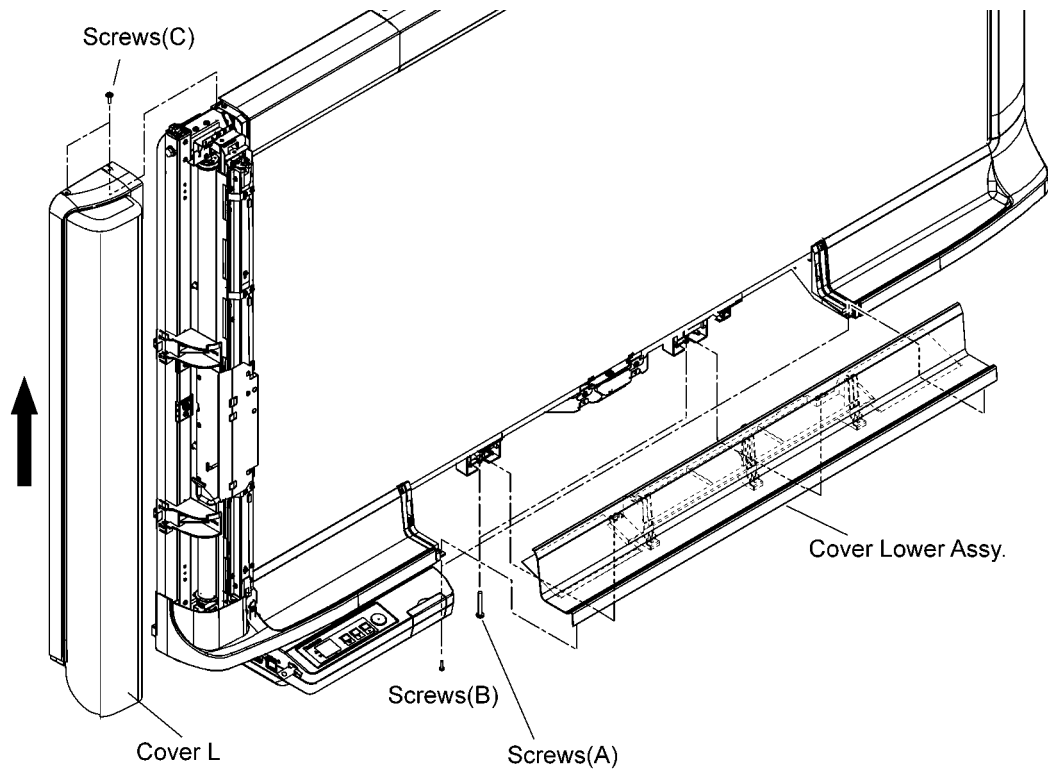
Replaced and serviced assemblies or parts	Action or confirmation	Reference
CONTROL Board, Component parts on CONTROL Board	Check the firmware version.	See Sec.7.
	Set the model.	See Sec.7.2.2.
	Set the application areas/countries.	See Sec.7.2.2.
	Clear the shading back-up data.	See Sec. 7.2.
	Check the scanning function.	See Sec.3.4.
MOTOR DRIVE Board, Component parts on MOTOR DRIVE Board	Check the scanning function.	See Sec.3.4.
SCANNER Board, Component parts on SCANNER Board	Clear the shading back-up data.	See Sec. 7.2.
	Check the scanning function.	See Sec.3.4.
Motor	Check the scanning function.	See Sec.3.4.
Scanner Assy.	Clear the shading back-up data.	See Sec. 7.2.
	Check the scanning function.	See Sec.3.4.

6 Disassembly and Assembly Instructions

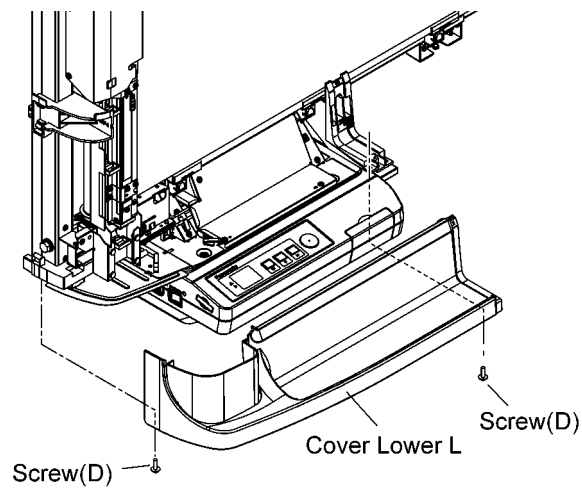
6.1. Cover

6.1.1. Cover Lower, Cover L, and Cover Lower L

1. Remove the 2 screws (A) and 2 screws (B).
2. Remove the Cover Lower Assy.
3. Remove the 2 screws (C).
4. Remove the Cover L in the direction of the arrow.

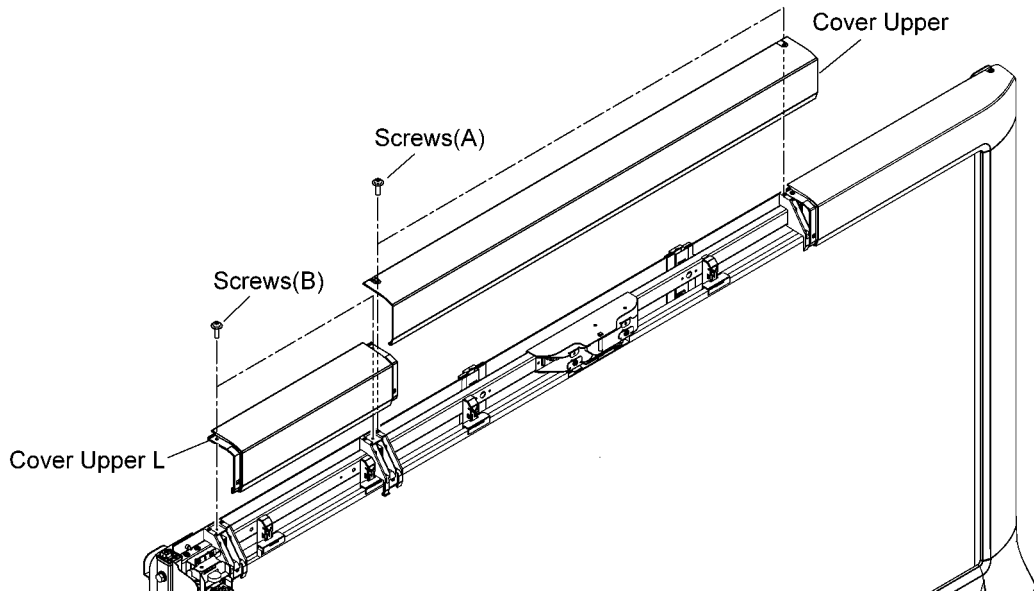


5. Remove the 2 screws (D).
6. Remove the Cover Lower L.



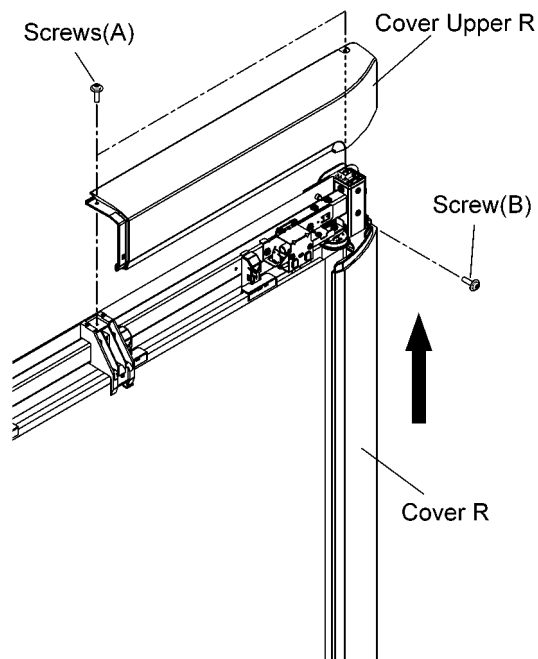
6.1.2. Cover Upper and Cover Upper L

1. Remove the 2 screws (A).
2. Remove the Cover Upper.
3. Remove the 2 screws (B).
4. Remove the Cover Upper L.



6.1.3. Cover Upper R and Cover R

1. Remove the 2 screws (A). Then remove Cover Upper R.
2. Remove the screw (B). Then remove the Cover R in the direction of the arrow.

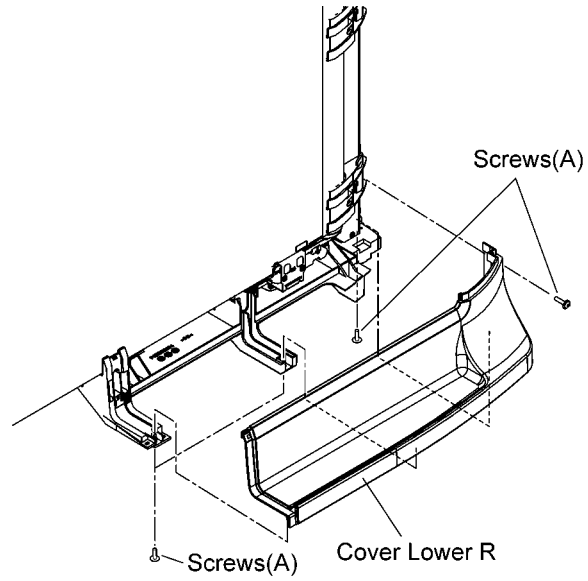


6.1.4. Cover Lower R and Roller Unit Cover

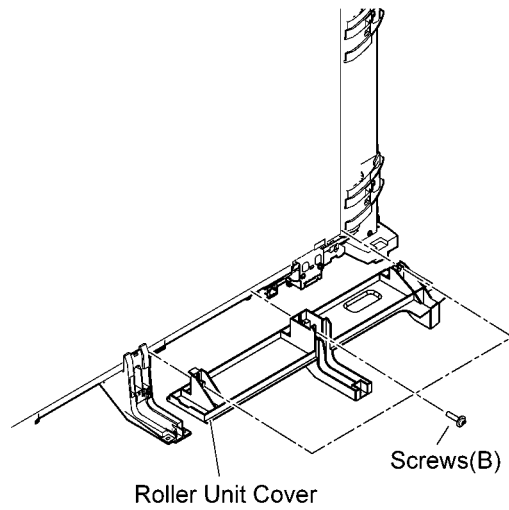
Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy. (See 6.1.1.)
- (2) Remove the Cover R. (See 6.1.3.)

1. Remove the 4 screws (A). Then remove the Cover Lower R.



2. If necessary, remove the 3 screws (B). Then remove the Roller Unit Cover.

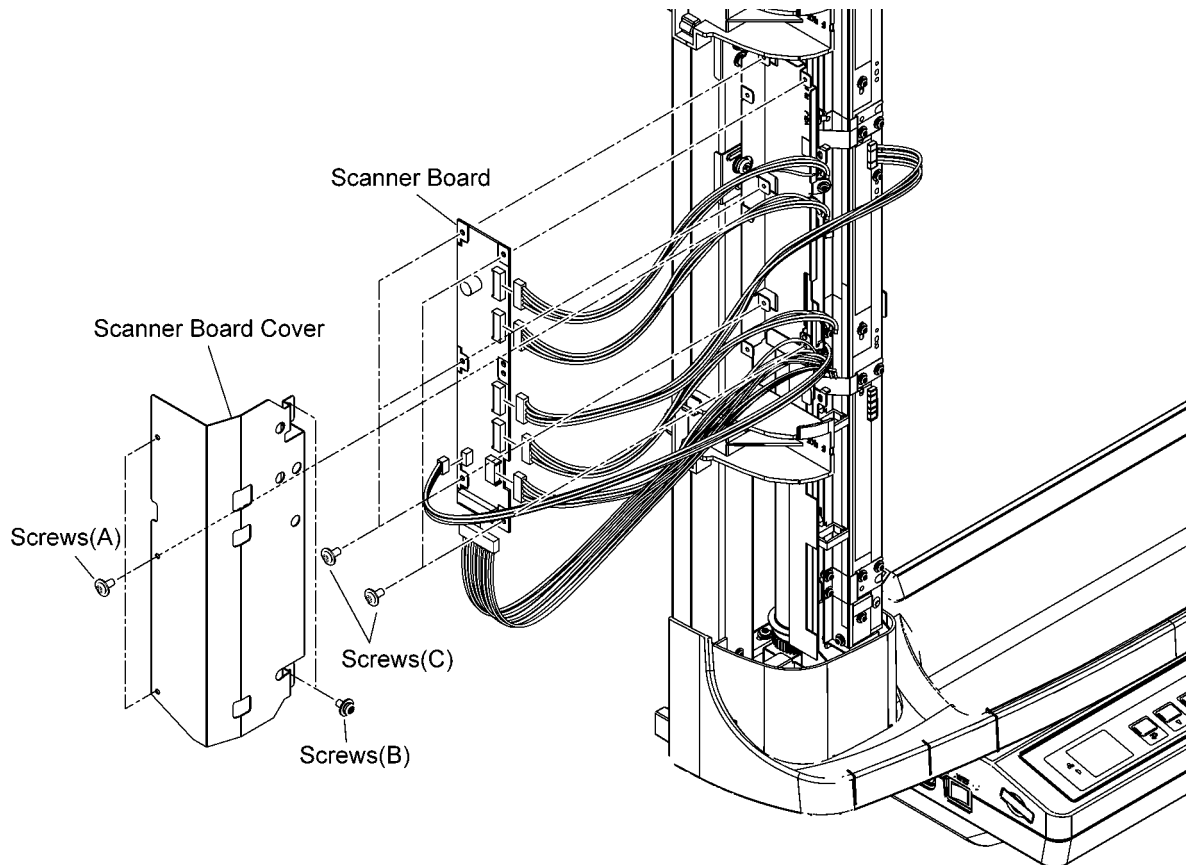


6.2. SCANNER Board and Scanner Assy.

6.2.1. SCANNER Board

Before performing these section procedures, remove the following part.
Remove the Cover L. (See 6.1.1.)

1. Remove the 3 screws (A) and 2 screws (B). Then remove the Scanner Board Cover.
2. Remove the 7 cable harnesses from the SCANNER Board.
3. Remove the 5 screws. Then remove the SCANNER Board.

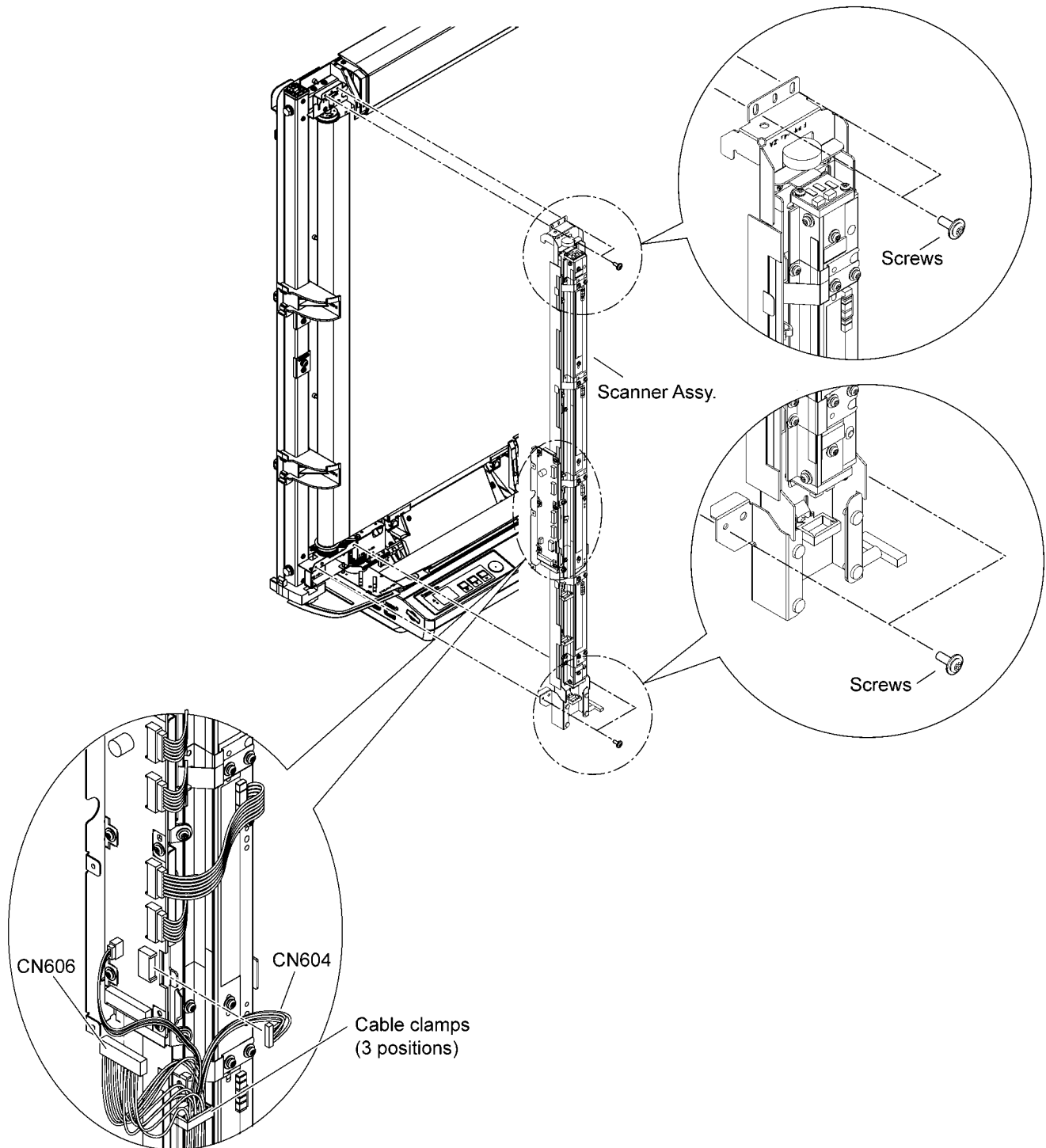


6.2.2. Scanner Assy.

Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Scanner Board Cover. (See 6.2.1.)
- (3) Remove the 2 cable harnesses (CN604, CN606) from the SCANNER Board. (See 6.2.1.)

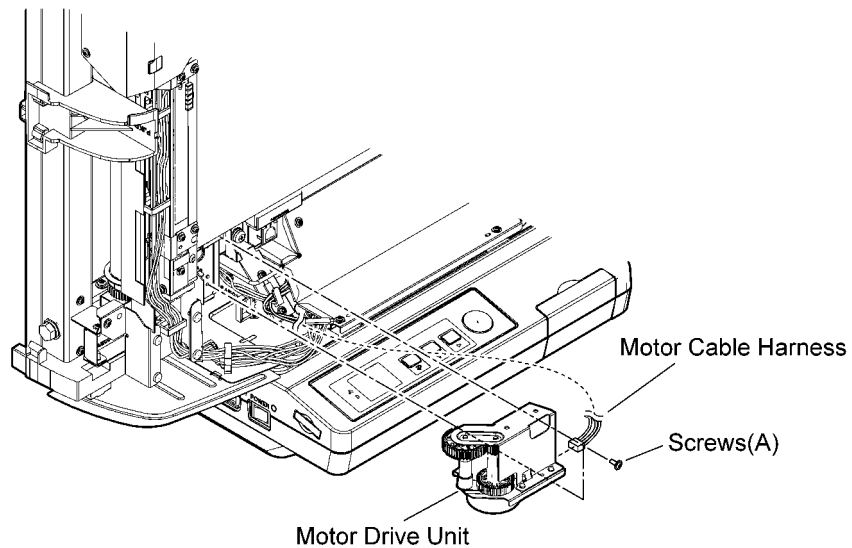
1. Remove the 4 screws.
2. Release the 3 cables from the cable clamps to remove the Scanner Assy.



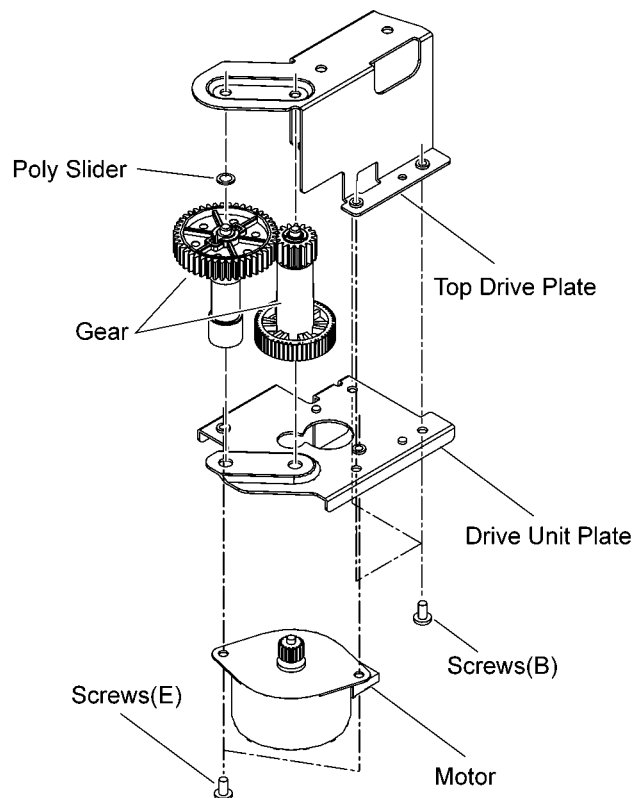
6.3. Motor Drive Unit

Before performing these section procedures, remove the following parts.
Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)

1. Remove the Motor Cable Harness.
2. Remove the 2 screws (A) and then remove the Motor Drive Unit.



3. Remove the 3 screws (B) to release the Top Drive Plate, Gear, and Poly Slider from the Drive Unit Plate.
4. If necessary, remove the 2 screws (E) to release the Motor from the Drive Unit Plate.

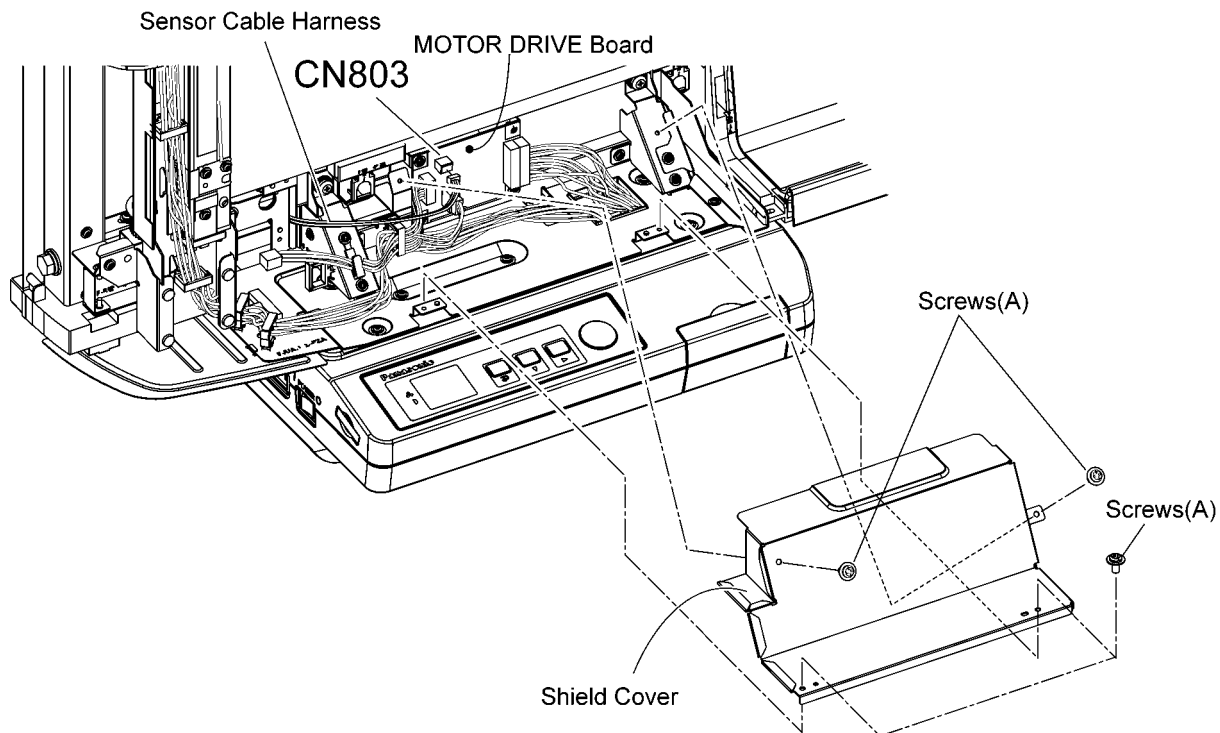


6.4. HOME SENSOR Board

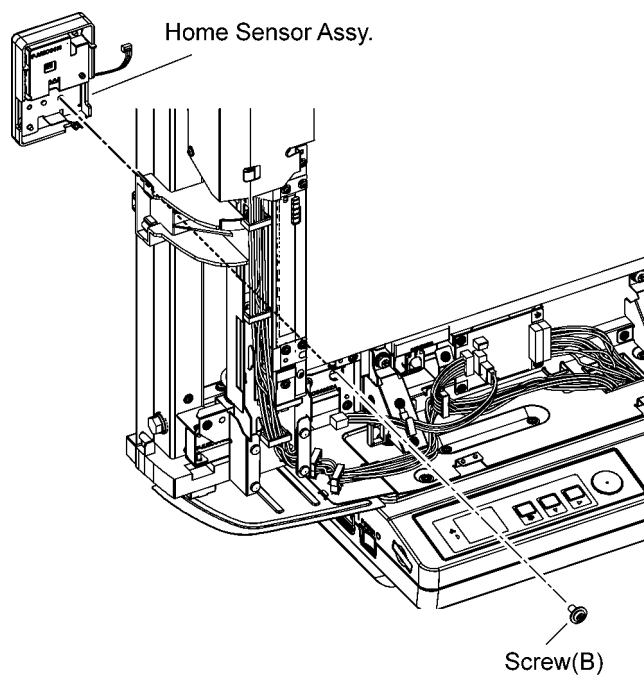
Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Motor Drive Unit. (See 6.3.)

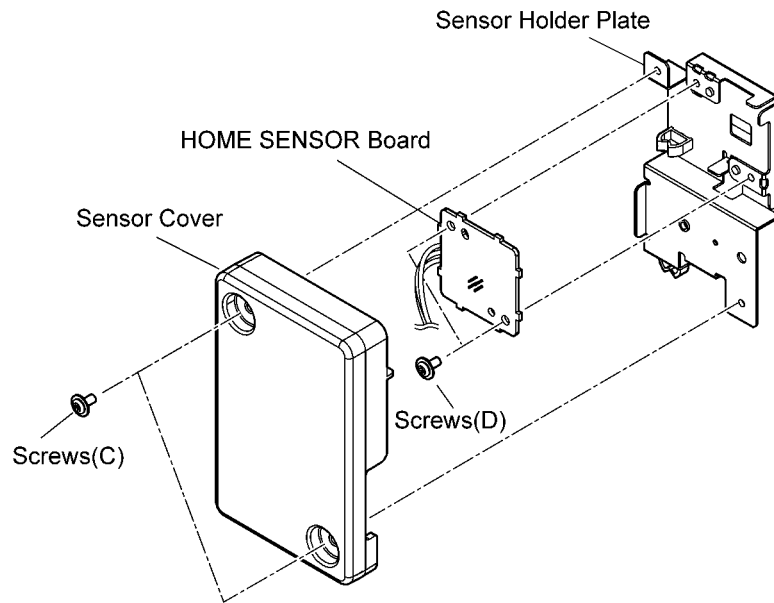
1. Remove the 4 screws (A) and then remove the Shield Cover.
2. Remove the Sensor Cable Harness(CN803) from the MOTOR DRIVE Board.



3. Remove the screw (B).
4. Remove the Home Sensor Assy. from the rear side of the Panaboard.



5. Remove the 2 screws (C) to release the Sensor Cover from the Sensor Holder Plate with HOME SENSOR Board.
6. Remove the 2 screws (D). Then remove the HOME SENSOR Board from the plate.

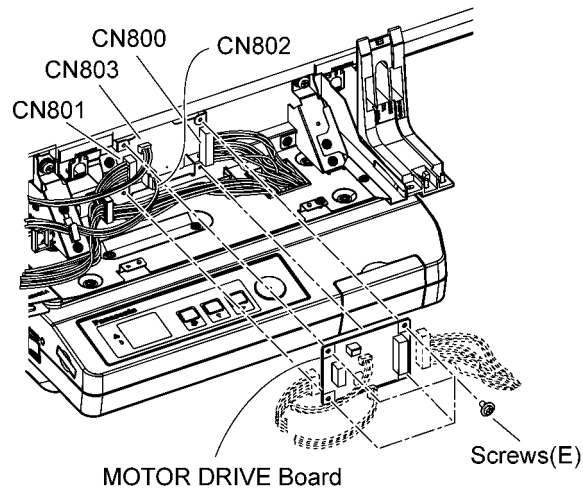


6.5. MOTOR DRIVE Board

Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Shield Cover. (See 6.4.)

1. Remove the 4 cable harnesses (CN800, CN801, CN802, CN803) from the MOTOR DRIVE Board.
2. Remove the 4 screws (E) and then remove the MOTOR DRIVE Board.

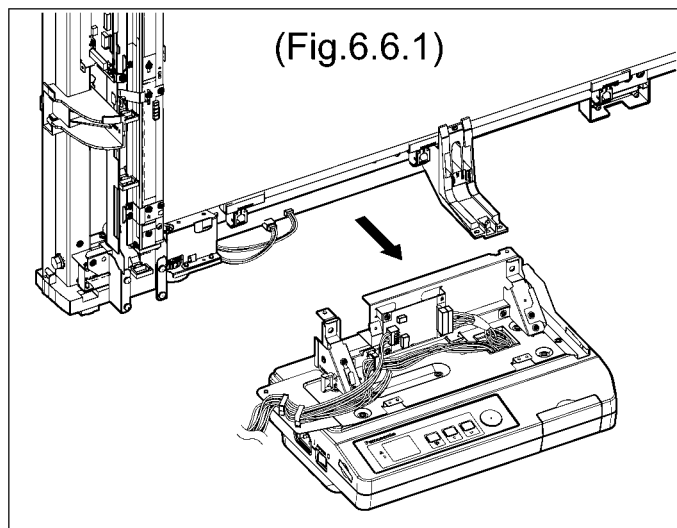
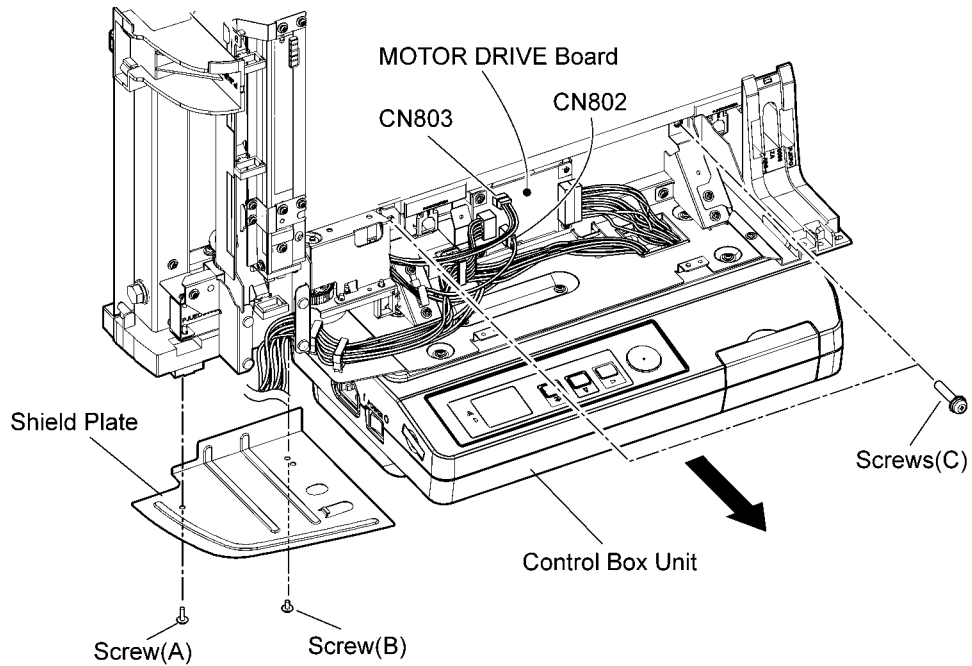


6.6. Control Box Unit

Before performing these section procedures, remove the following parts.

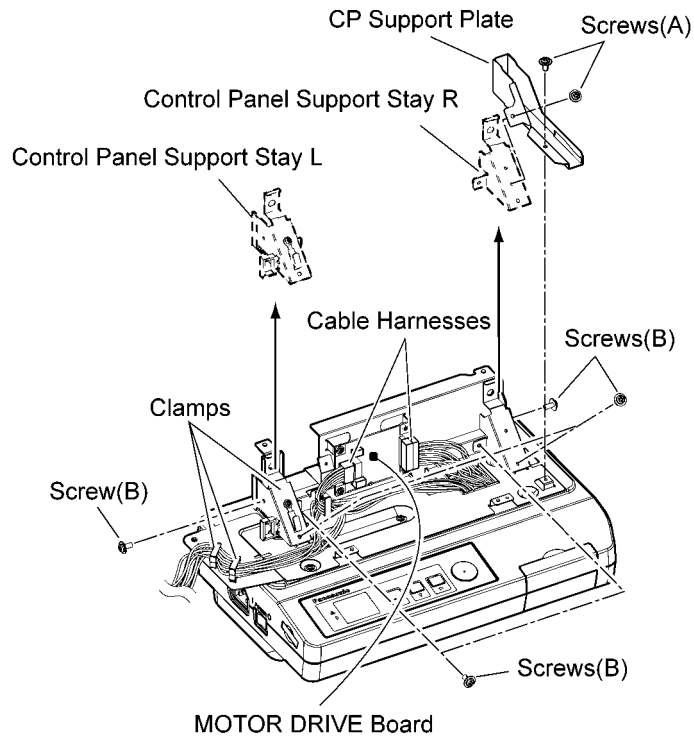
- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the 2 cable harnesses (CN604, CN606) out of the 7 cable harnesses from the SCANNER Board.
Then release the 2 cable harnesses from the clamps. (See 6.2.)
- (3) Remove the HOME SENSOR Board. (See 6.4.)

1. Remove the screw (A) and screw (B). Then remove the Shield Plate.
2. Remove the 2 cable harnesses (CN 802, CN803) from the MOTOR DRIVE Board.
3. Remove the 2 screws (C) and then remove the Control Box Unit in the direction of the arrow below.

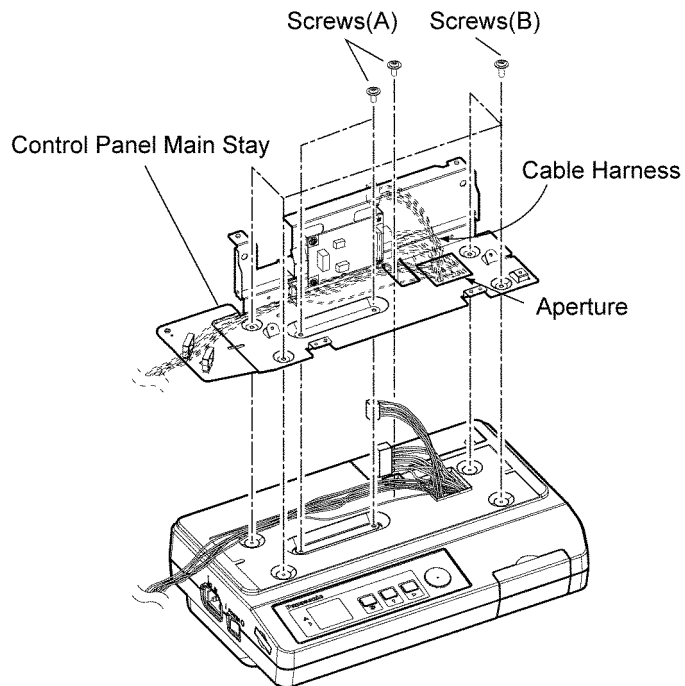


6.6.1. CONTROL Board, PANEL Board, and POWER Board

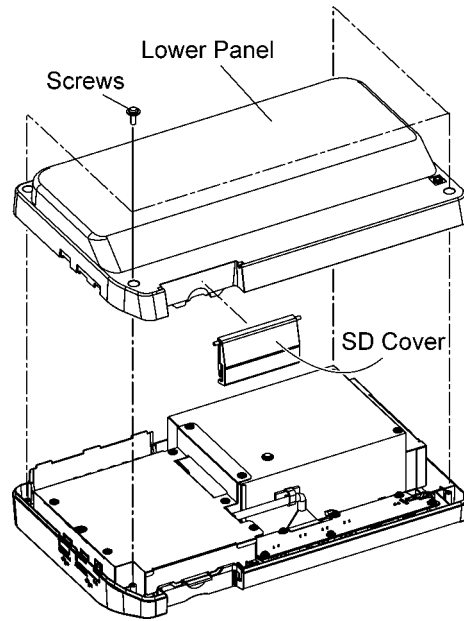
1. Remove the 2 cable harnesses from the MOTOR DRIVE Board.
2. Release the cable from the 3 clamps.
3. Remove the 2 screws (A) and then remove the CP Support Plate.
4. Remove the 6 screws. Then remove the Control Panel Support Stays (R and L) on both sides.



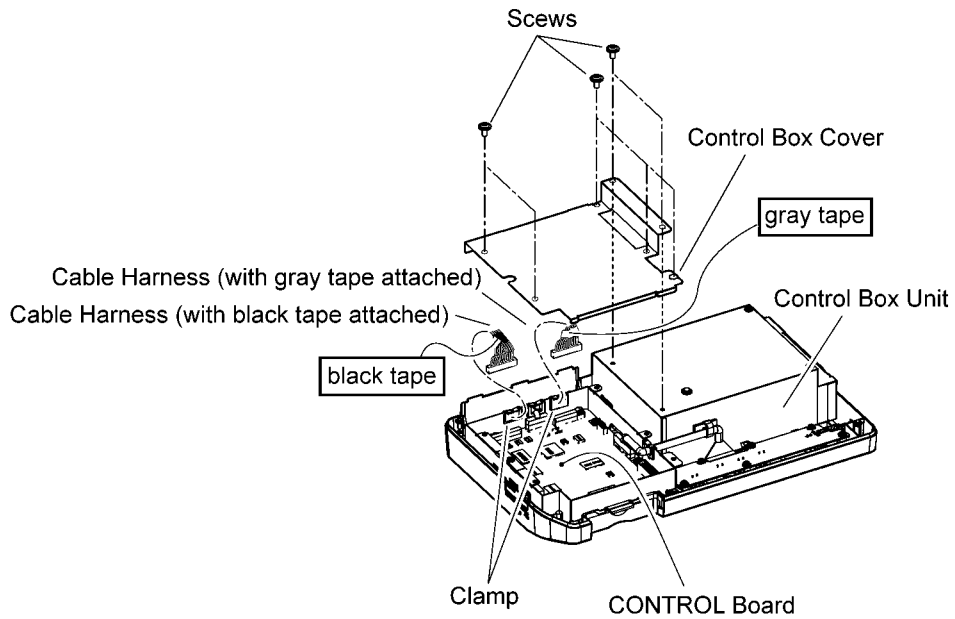
5. Remove the 3 screws (A) and 4 screws (B).
Then remove the Control Panel Main Stay while pulling the cable from the aperture.



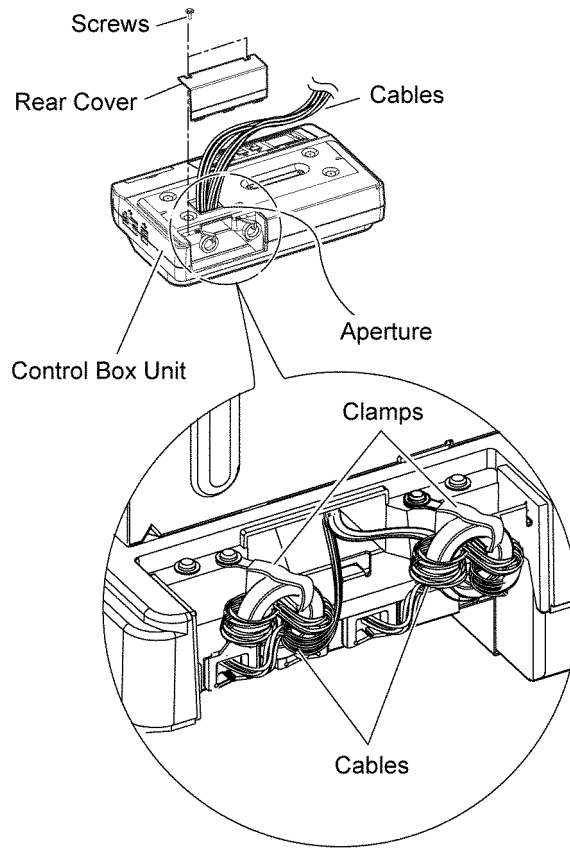
6. Turn over the Control Box Unit. Then remove the 4 screws and Lower Panel.
(If necessary, remove the SD Cover.)



7. Remove the 7 screws and then remove the Control Box Cover.
8. Remove the cable harness (with black tape attached) and the cable harness (with gray tape attached).
9. Remove the 2 cable harnesses from the clamps.

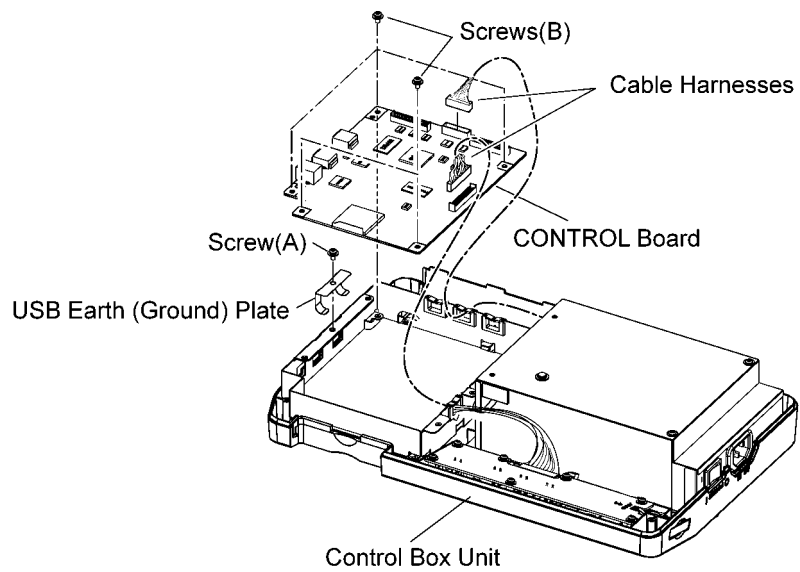


10. Remove the 2 screws and then remove the Rear Cover.
11. Release the 2 cables from the clamps.
12. Pull the cable through the aperture.



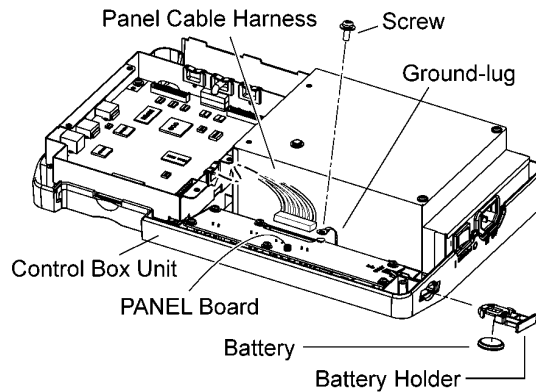
6.6.1.1. CONTROL Board

1. Remove the screw (A) and USB Earth (Ground) Plate.
2. Remove the 5 screws (B) and 2 cable harnesses from the CONTROL Board.
3. Release the CONTROL Board from the Control Box Unit.

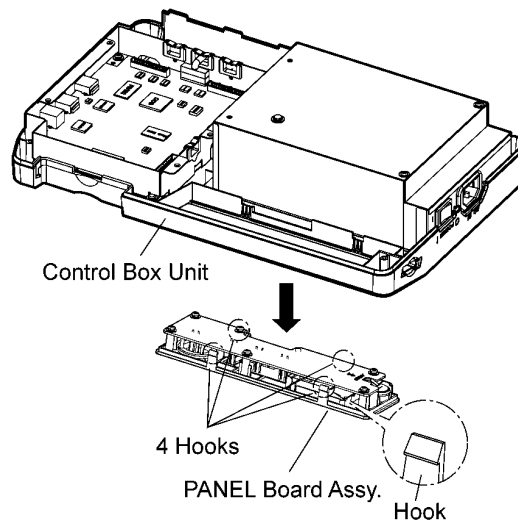


6.6.1.2. PANEL Board

1. Remove the Battery Holder from the Control Box Unit.
2. Remove the Panel Cable Harness from the PANEL Board.
3. Remove the screw that supports the Ground-lug.



4. Release the 4 hooks to remove the PANEL Board Assy.



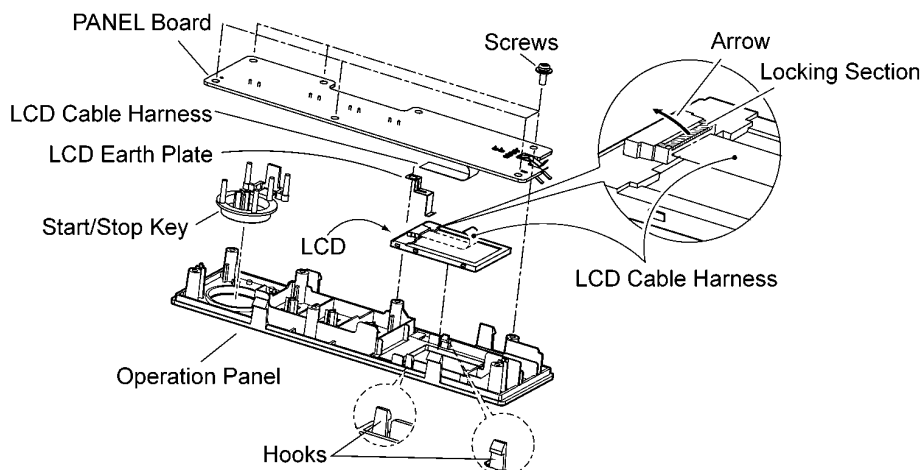
5. Remove the 6 screws.
6. Release the PANEL Board, LCD, and other parts from the Operation Panel.

Note1: How to remove the LCD Cable Harness

Be sure to release the locking section on the harness in the direction of the arrow before pulling and removing it.

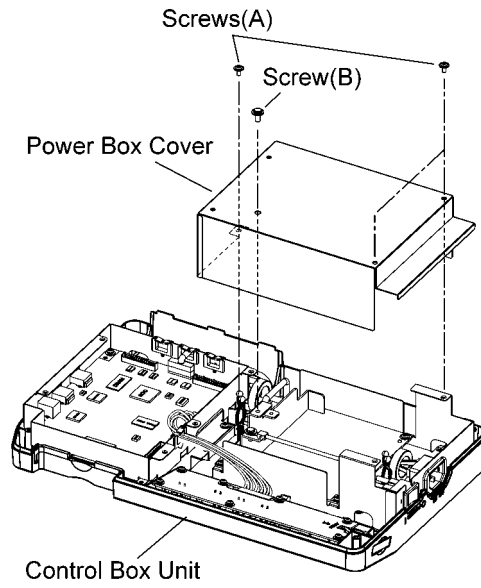
Note2: How to remove the LCD

Be sure to release the 2 hooks when removing the LCD from the Operation Panel.

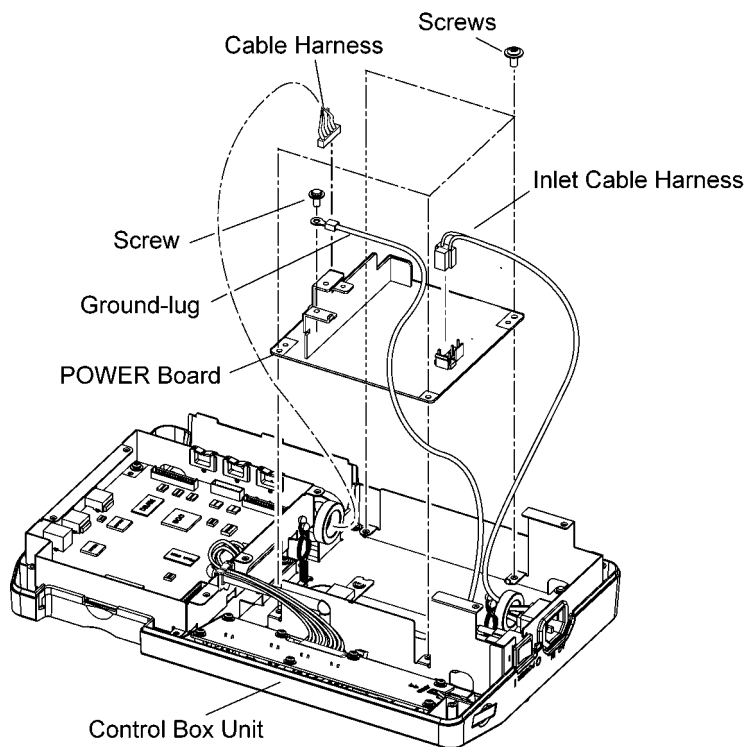


6.6.1.3. POWER Board

1. Remove the 3 screws (A) and the screw (B). Then remove the Power Box Cover.



2. Remove the 4 screws on the POWER Board.
3. Remove the screw that supports the Ground-lug.
4. Remove the 2 cable harnesses from the POWER Board.
5. Remove the POWER Board.



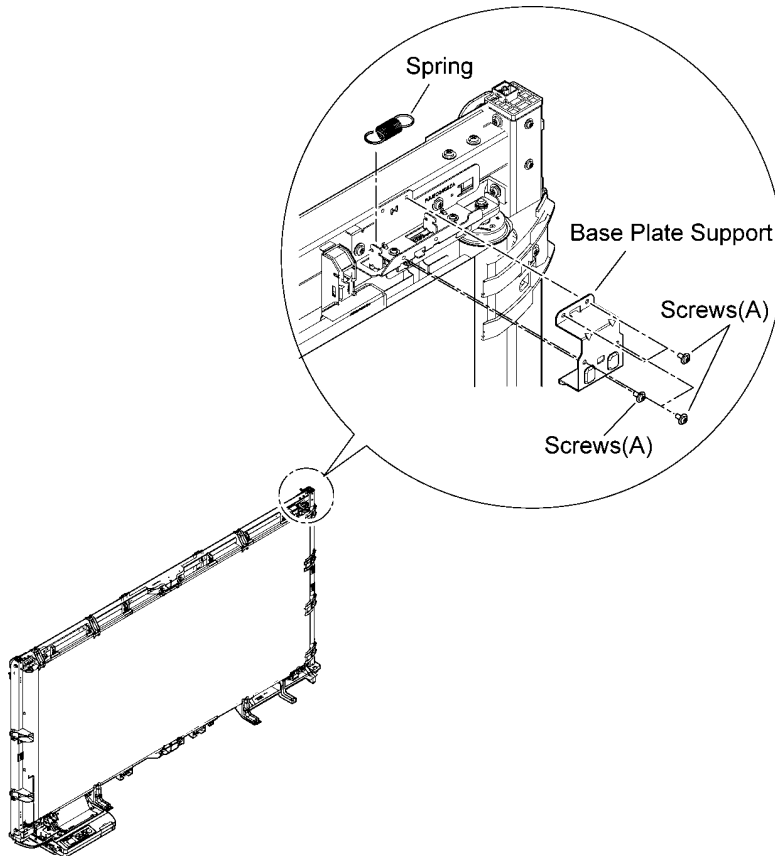
6.7. Screen Roller

6.7.1. Screen Main-roller

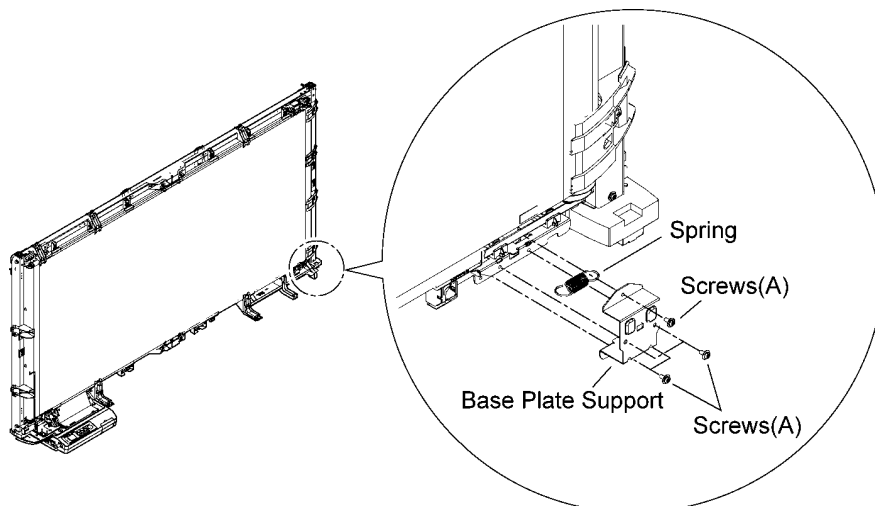
Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Cover Upper and Cover Upper L. (See 6.1.2.)
- (3) Remove the Cover Upper R and Cover R. (See 6.1.3.)
- (4) Remove the Cover Lower R and Roller Unit Cover. (See 6.1.4.)
- (5) Remove the Scanner Assy. (See 6.2.2.)
- (6) Remove the Motor Drive Unit. (See 6.3.)

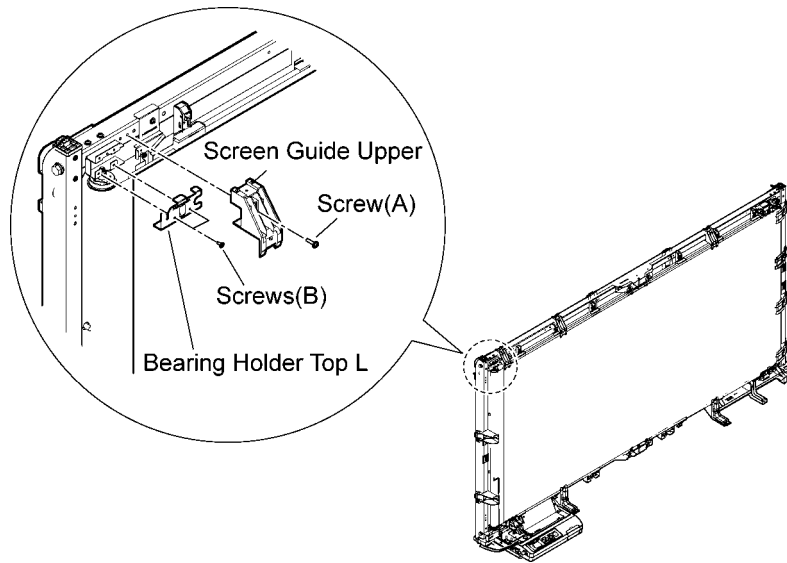
1. Remove the 5 screws (A). Then remove the Base Plate Support for the upper position.
2. Remove the spring.



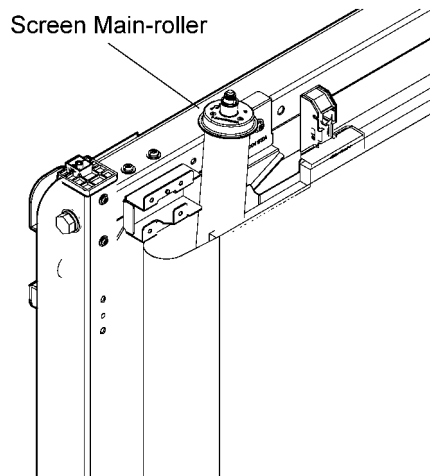
3. Remove the 5 screws (A). Then remove the Base Plate Support for the lower position.
4. Remove the spring.



5. Remove the screw (A) and then remove the Screen Guide Upper.
6. Remove the 2 screws (B) and then remove the Bearing Holder Top L.

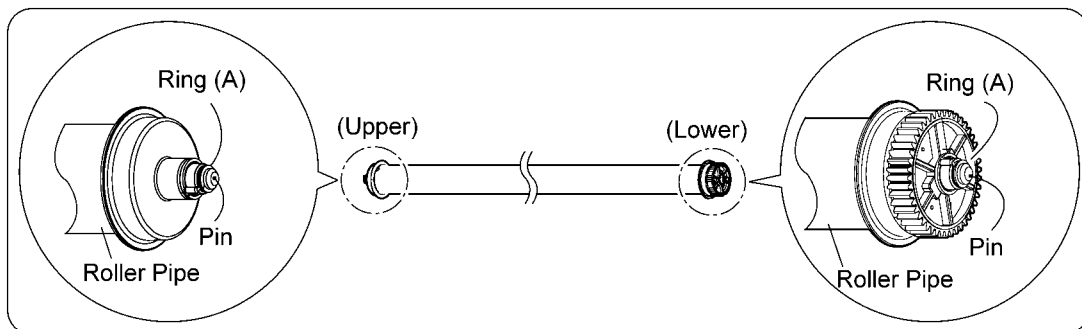


7. Remove the Screen Main-roller so as not to have a damage to the screen surface.



Note:

Must not remove Rings (A) on both sides of the Screen Main-roller.
That removal may cause the pin to insert into the Roller Pipe to disable the roller attachment.

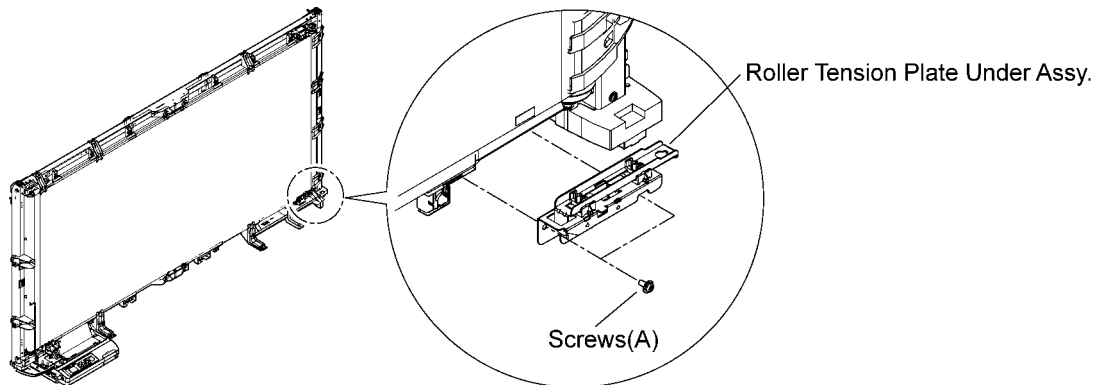


6.7.2. Screen Sub-roller

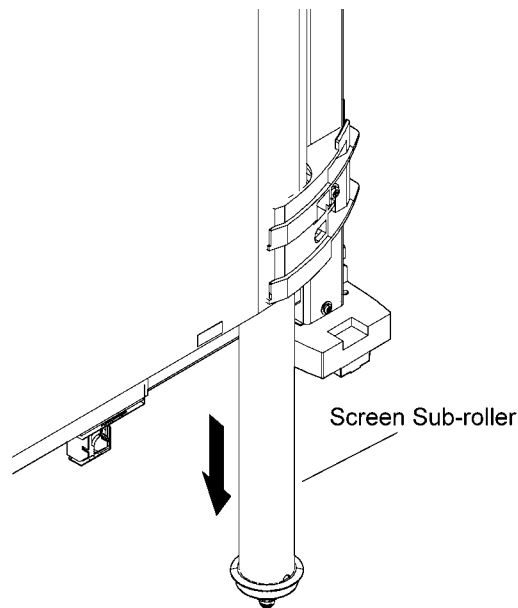
Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy. (See 6.1.1.)
- (2) Remove the Cover Upper R and Cover R. (See 6.1.3.)
- (3) Remove the Cover Lower R and Roller Unit Cover. (See 6.1.4.)
- (4) Remove the Base Plate Support for the upper position, Base Plate Support for the lower position, and 2 springs. (See 6.7.1.)

1. Remove the 2 screws (A) and then remove the Roller Tension Plate Under Assy.

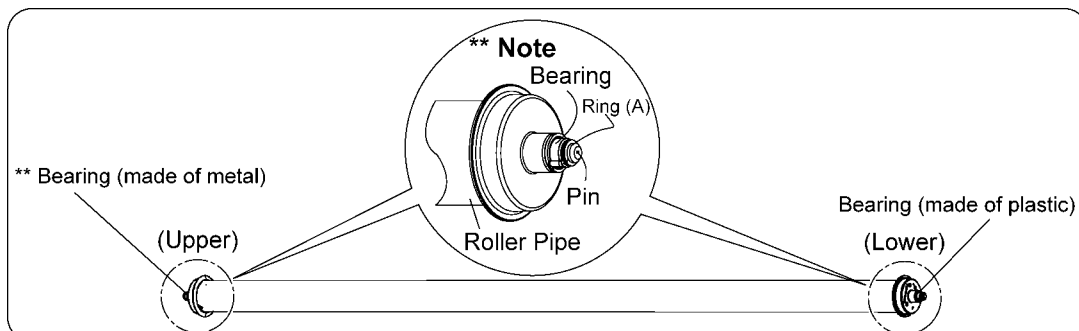


2. Pull the Screen Sub-roller in the direction of the arrow to remove it.



Note:

1. Must not remove Rings (A) on both sides of the Screen Sub-roller.
That removal may cause the pin to insert into the Roller Pipe to disable the roller attachment.
2. When installing the Screen Sub-roller to the Frame Unit, make sure to attach the side where the roller has the ** Bearing (made of metal) to the upper side of the unit.
(This bearing is used as an earth connecting point for this unit by installing it to the unit.)



6.8. Screen Guide R and Screen Guide L

Before performing these section procedures, remove the following parts.

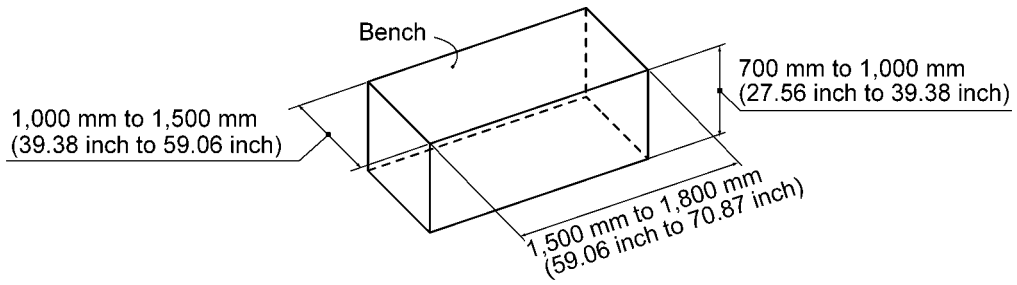
- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Cover Upper and Cover Upper L. (See 6.1.2.)
- (3) Remove the Cover Upper R and Cover R. (See 6.1.3.)
- (4) Remove the Cover Lower R. (See 6.1.4.)

Prepare for the bench that fills the specifications shown below.

(The bench must be able to hold the weight of Panaboard and the following size.)

UB-5838C: Approx. 28 kg (61.73 lb.)

UB-5338C: Approx. 26 kg (57.32 lb.)

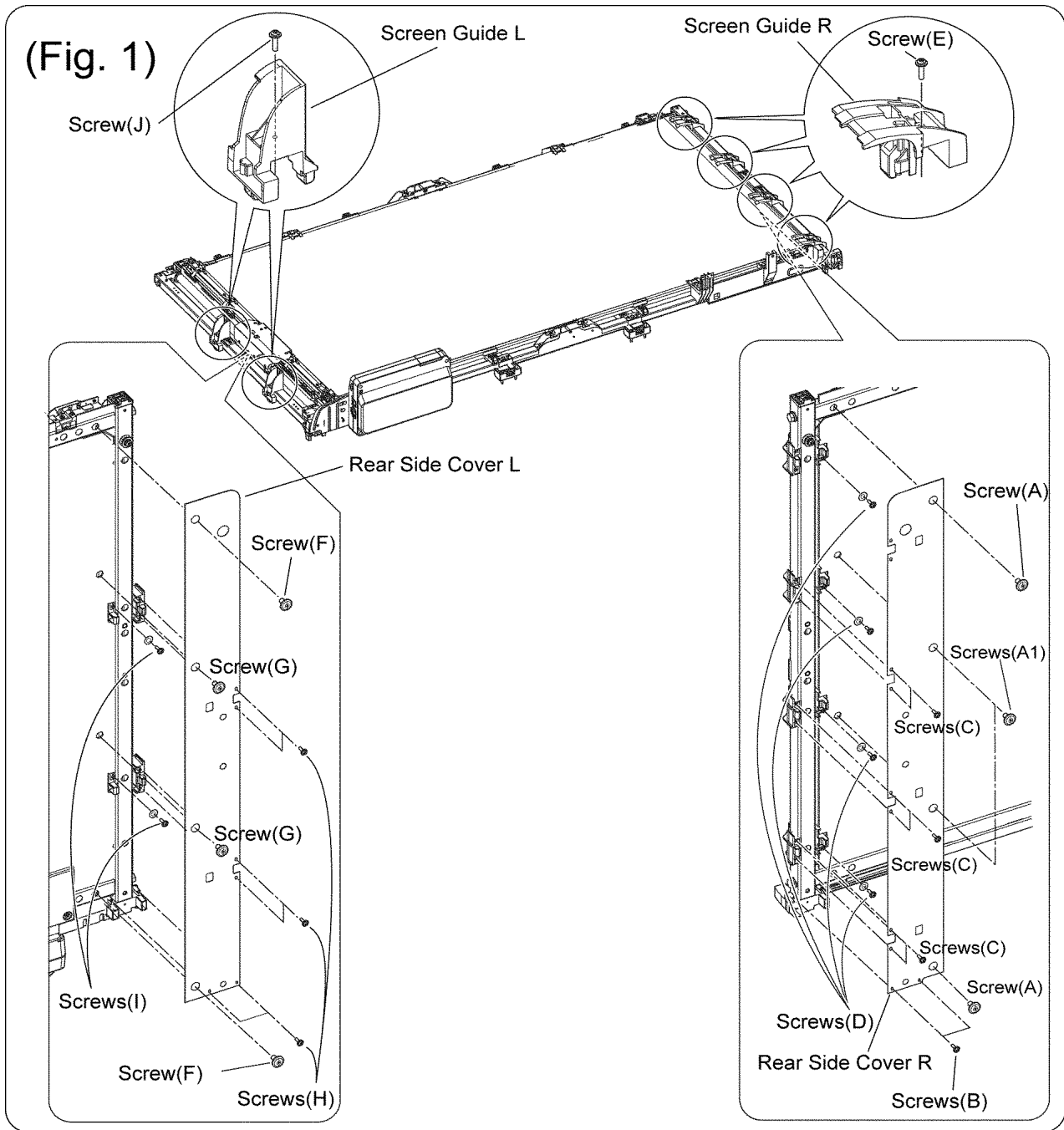


(Screen Guide R)

1. Remove the 2 screws (A), 2 screws (A1), 2 screws (B), and 6 screws (C). Then remove the Rear Side Cover R.
2. Remove the 4 screws (D) and 4 screws (E). Then remove the 4 Screen Guides R.

(Screen Guide L)

1. Remove the 2 screws (F), 2 screws (G), 6 screws (H), 2 screws (I), and 2 screws (J). Then remove the Rear Side Cover L and Screen Guide L.

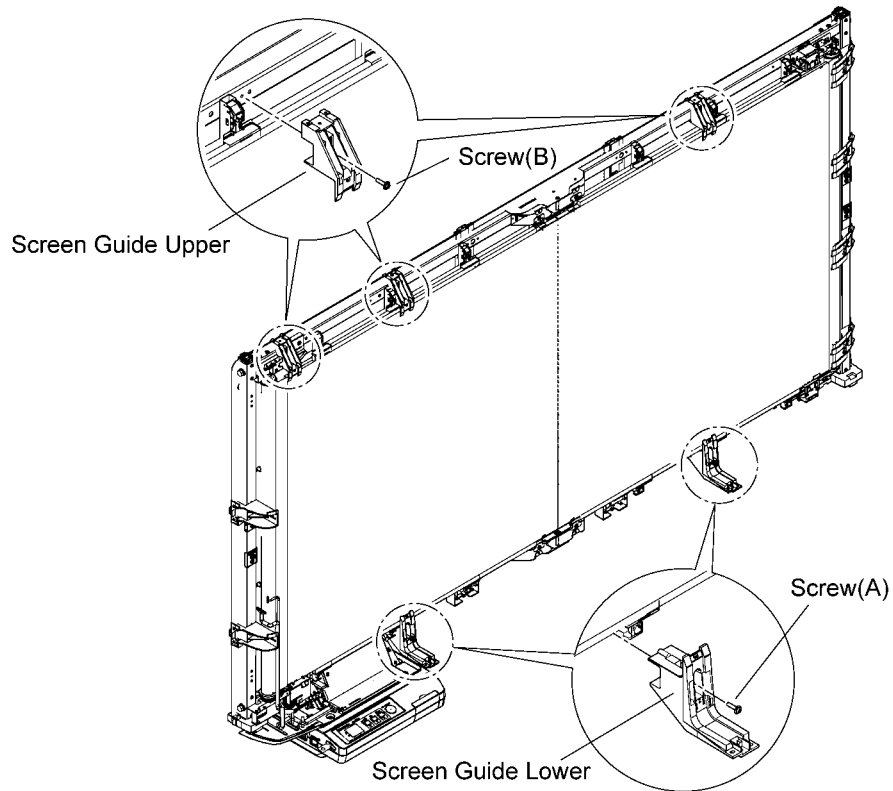


6.9. Screen Film

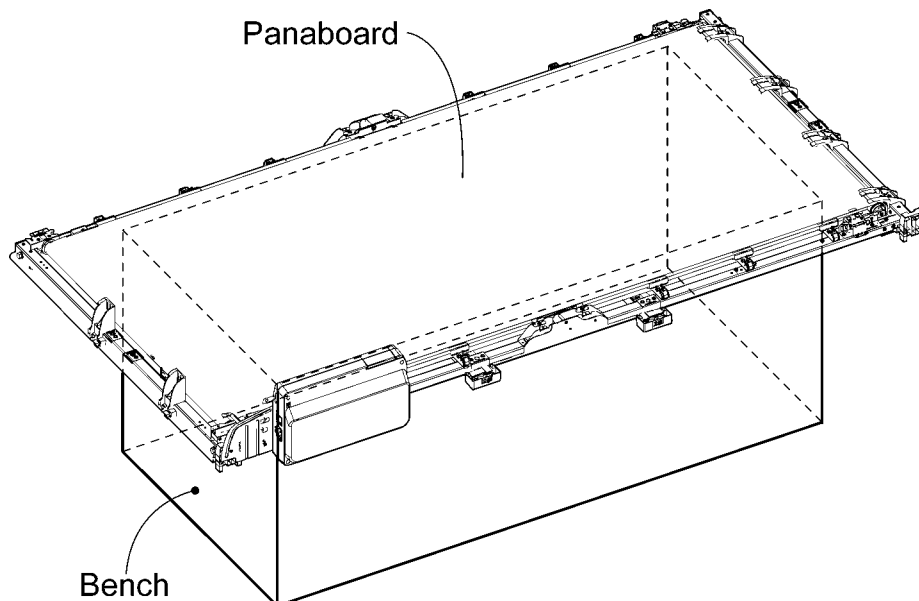
Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Cover Upper and Cover Upper L. (See 6.1.2.)
- (3) Remove the Cover Upper R and Cover R. (See 6.1.3.)
- (4) Remove the Cover Lower R and Roller Unit Cover. (See 6.1.4.)
- (5) Remove the Scanner Assy. (See 6.2.2.)
- (6) Remove the Motor Drive Unit. (See 6.3.)

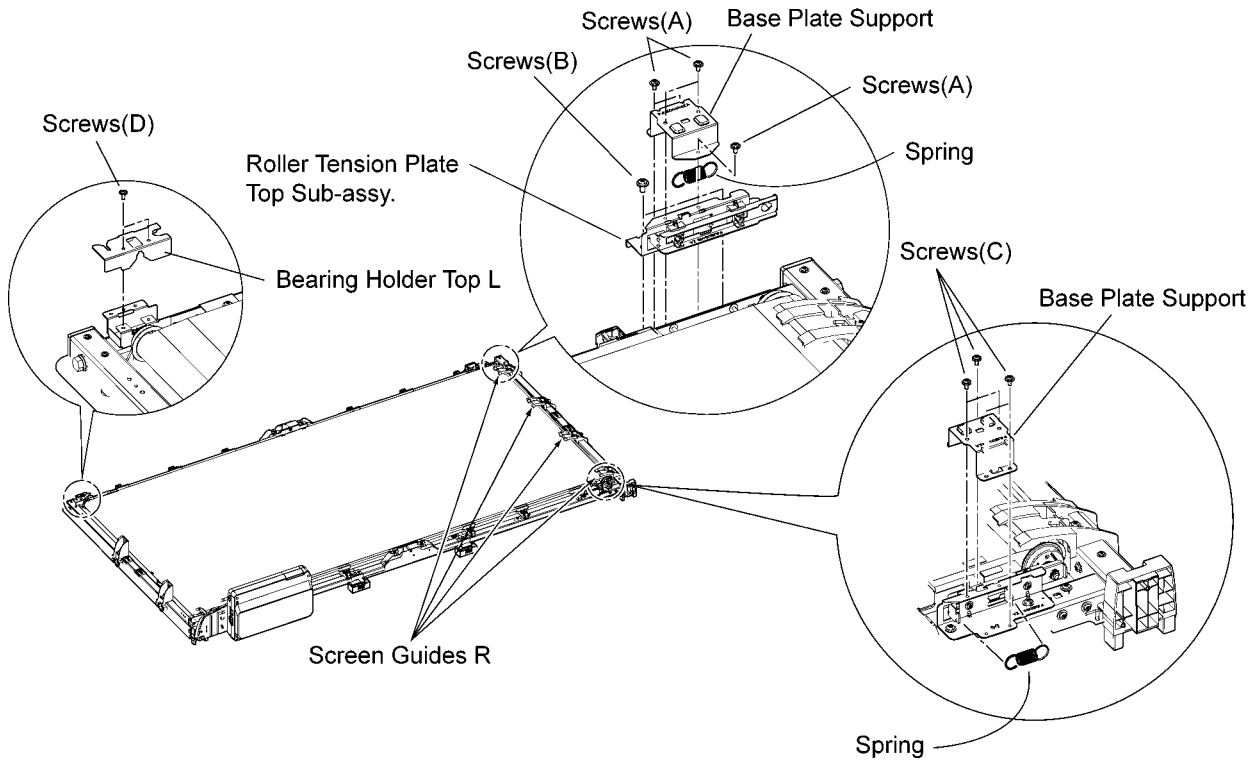
1. Remove the 2 screws (A) and then remove the 2 Screen Guides Lower.
2. Remove the 3 screws (B) and then remove the 3 Screen Guides Upper.



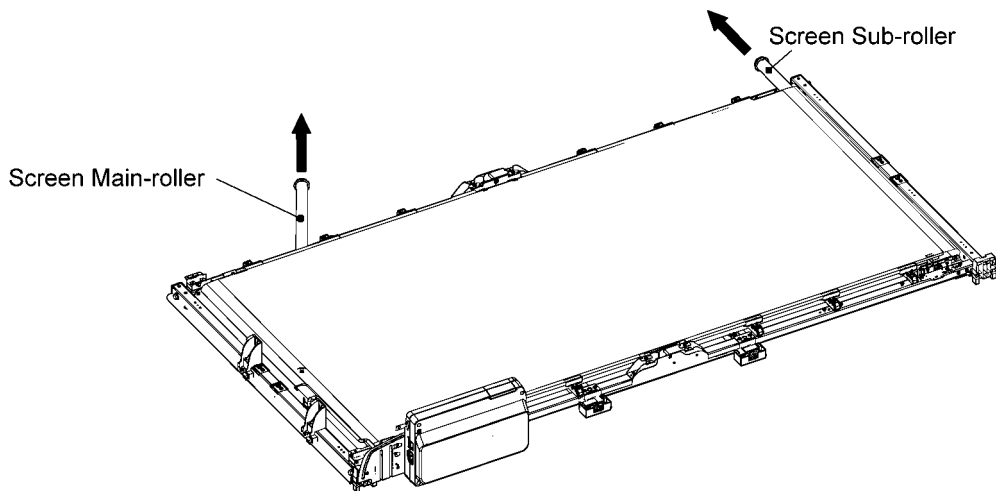
3. Remove the Panaboard from the Wall-mounting Fixtures or optional Stand.
4. With the screen film surface facing up, lay the Panaboard on the Bench.
(Regarding Bench, refer to Sec. 6.8.)



5. Remove the 4 Screen Guides R. (See 6.8.)
6. Remove the 5 screws (A), and then remove the Base Plate Support on the upper side.
7. Remove the Spring on the upper side.
8. Remove the 2 screws (B) and then remove the Roller Tension Plate Top Sub-assy.
9. Remove the 5 screws (C), and then remove the Base Plate Support on the lower side.
10. Remove the Spring on the lower side.
11. Remove the 2 screws (D), and then remove the Bearing Holder Top L.



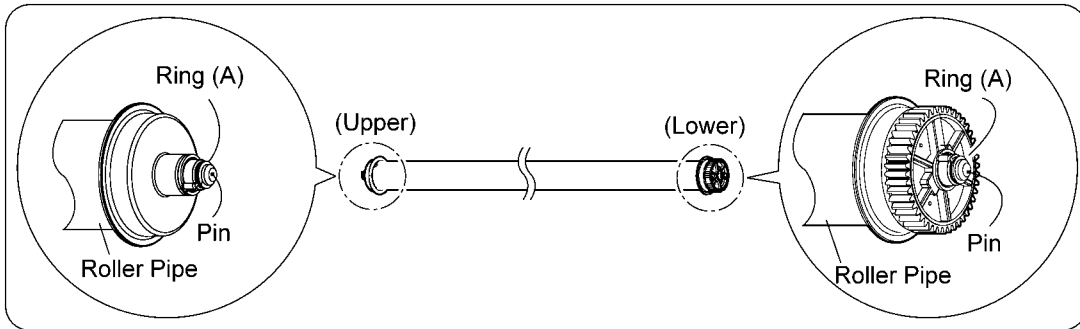
12. Pull the Screen Main-roller and Screen Sub-roller in the direction of the arrows to remove them not to give a damage to the Screen Film.



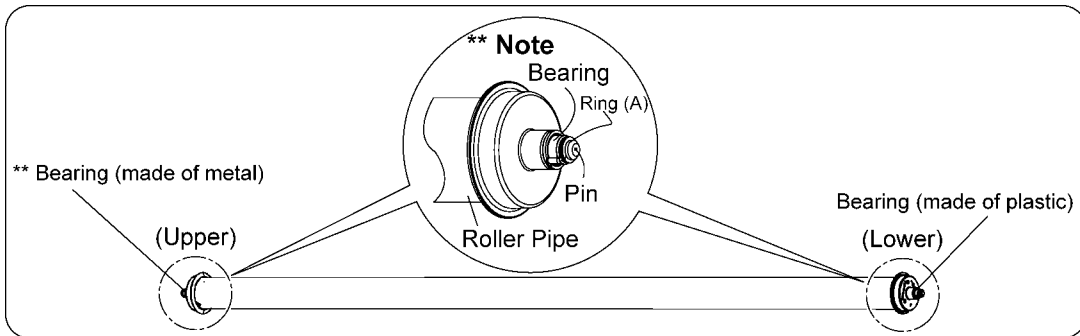
Note:

1. Must not remove Rings (A) on both sides of the Screen Sub-roller.
That removal may cause the pin to insert into the Roller Pipe to disable the roller attachment.
2. When installing the Screen Sub-roller to the Frame Unit, make sure to attach the side where the roller has the ** Bearing (made of metal) to the upper side of the unit.
(This bearing is used as an earth connecting point for this unit by installing it to the unit.)

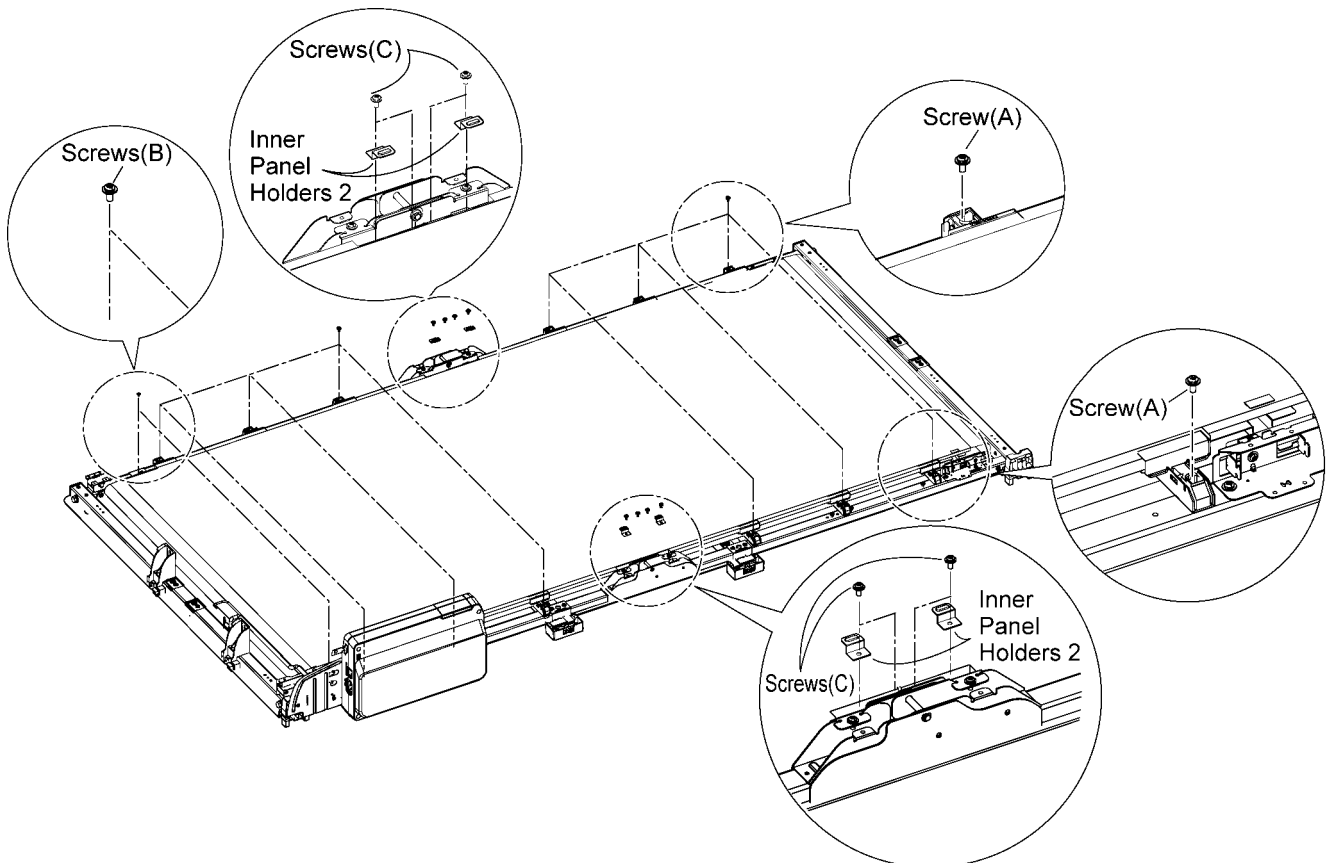
Screen Main-roller



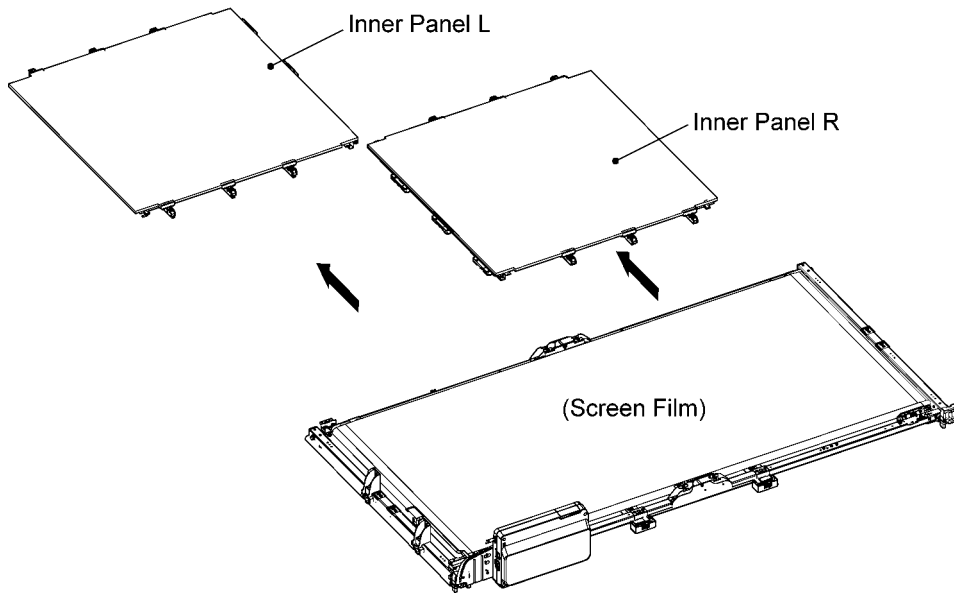
Screen Sub-roller



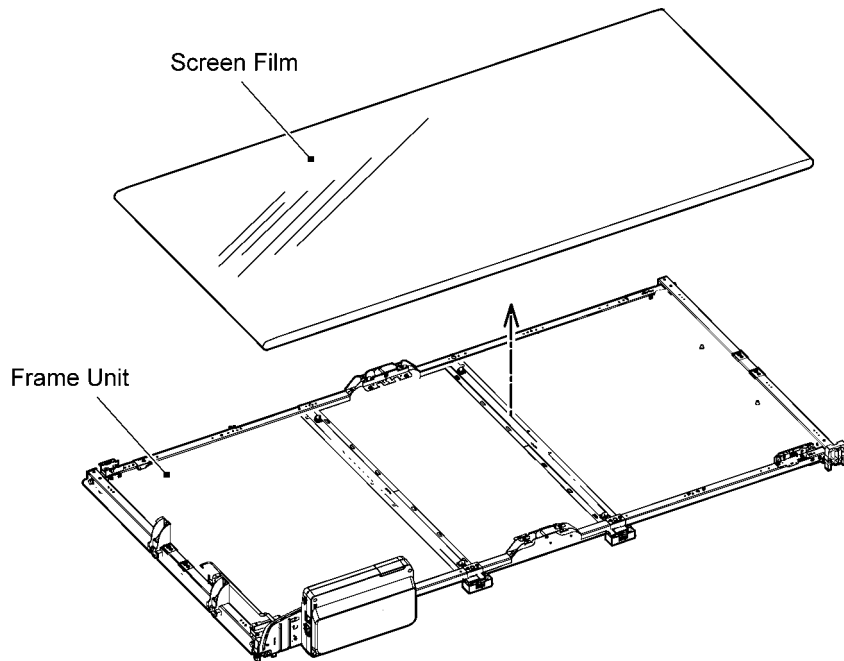
13. Remove the 12 screws (A) and 2 screws (B). (For UB-5838C Series Only)
Remove the 8 screws (A) and 2 screws (B). (For UB-5338C Series Only)
14. Remove the 8 screws (C) and then remove the 4 Inner Panel Holders 2.



15. Pull the Inner Panel L and Inner Panel R in the direction of the arrows to remove them not to give a damage to the Screen Film.



16. Separate the Screen Film from the Frame Unit.



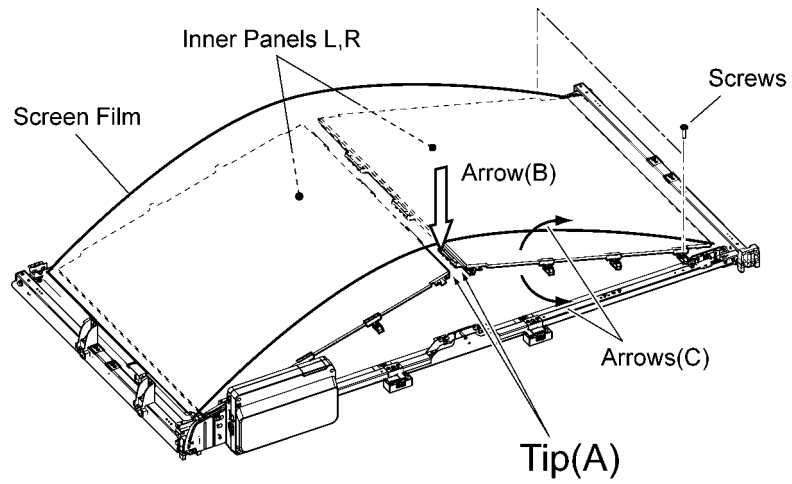
Reassembling Note: Inner Panel L and Inner Panel R

1. Insert the Screen Film into the Frame Unit so as to set the film to the original position.
2. Insert the Panel L and Inner Panel R into the Screen Film.

Then while keeping the Tip (A) of the Inner Panel L in contact with that of the Inner Panel R, push down the panels in the direction of the arrow (B) so as not to give a damage to the Screen Film.

Note:

Fix the 2 screws tentatively so that the Inner Panel L and Inner Panel R can be moved in the direction of the arrows (C).

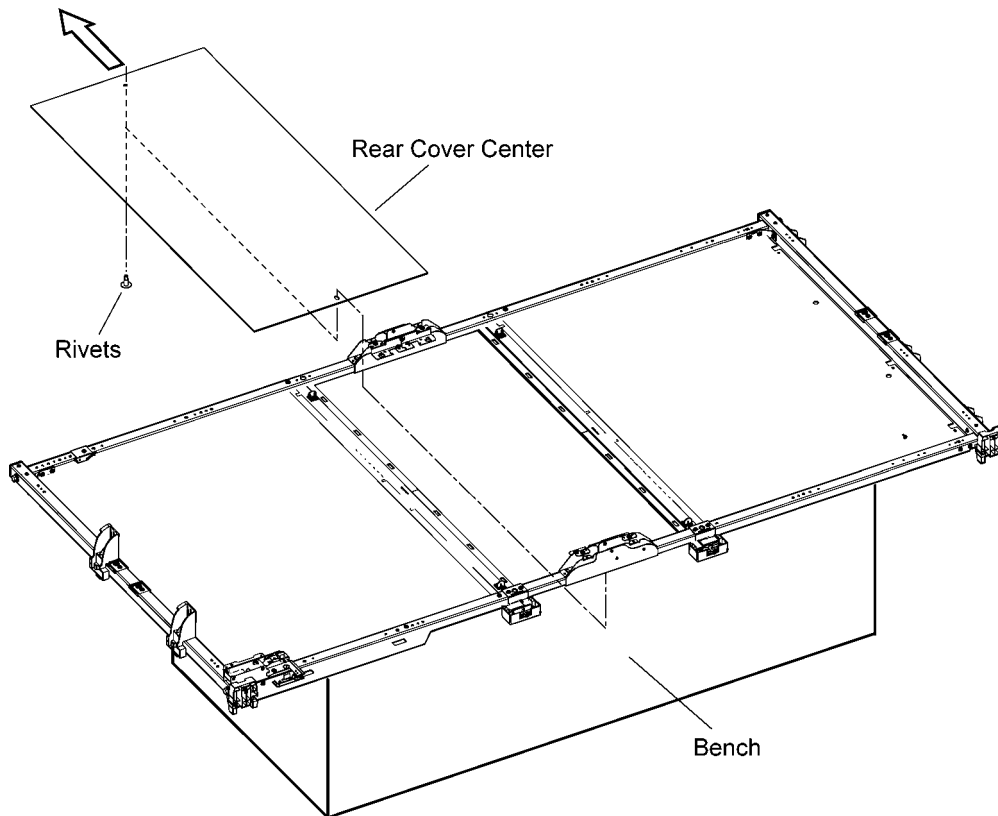


6.10. Frame

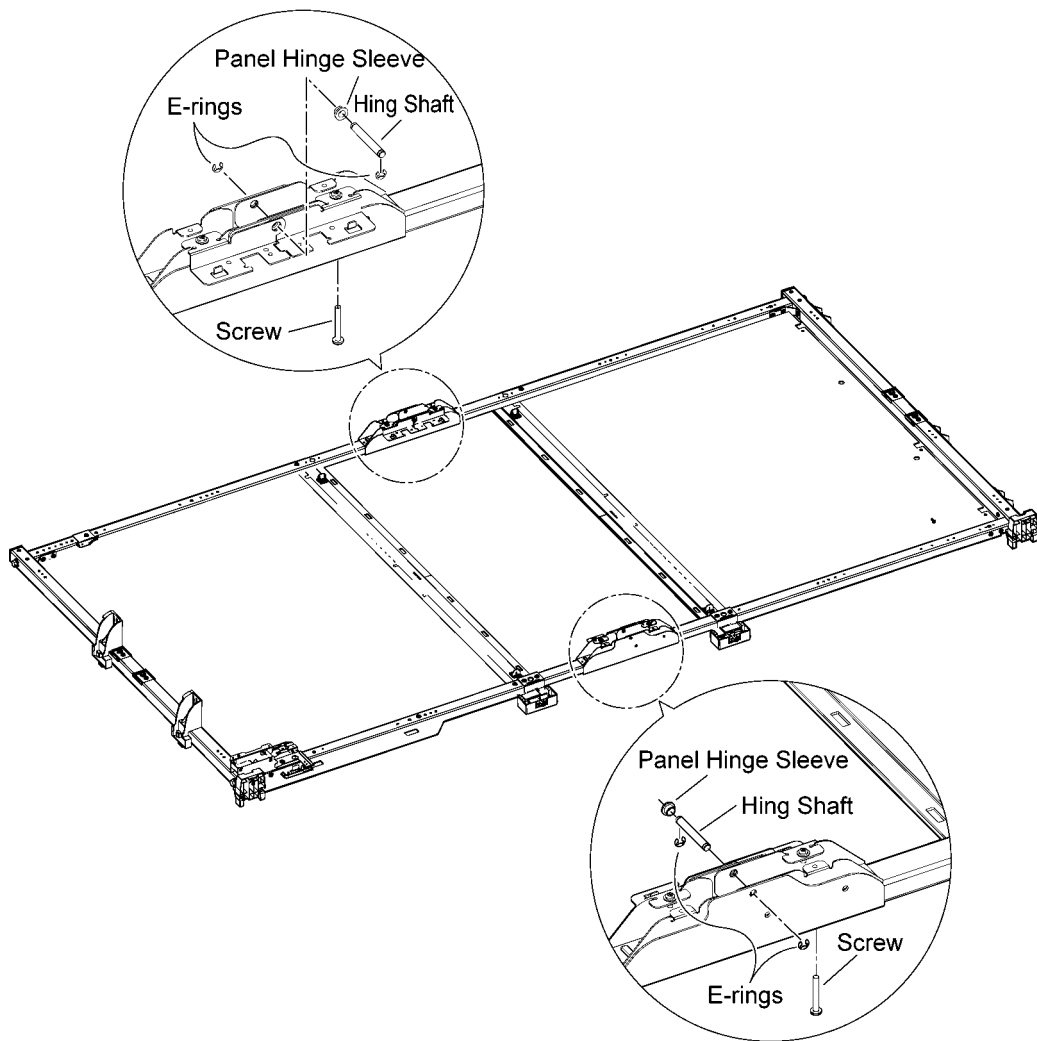
Before performing these section procedures, remove the following parts.

- (1) Remove the Cover Lower Assy., Cover L, and Cover Lower L. (See 6.1.1.)
- (2) Remove the Cover Upper and Cover Upper L. (See 6.1.2.)
- (3) Remove the Cover Upper R and Cover R. (See 6.1.3.)
- (4) Remove the Cover Lower R and Roller Unit Cover. (See 6.1.4.)
- (5) Remove the Scanner Assy. (See 6.2.2.)
- (6) Remove the Motor Drive Unit. (See 6.3.)
- (7) Remove the MOTOR DRIVE Board. (See 6.5.)
- (8) Remove the Control Box Unit. (See 6.6.)
- (9) Remove the Screen Main-roller (See 6.7.1.)
- (10) Remove the Screen Sub-roller (See 6.7.2.)
- (11) Remove the Screen Film. (See 6.9.)

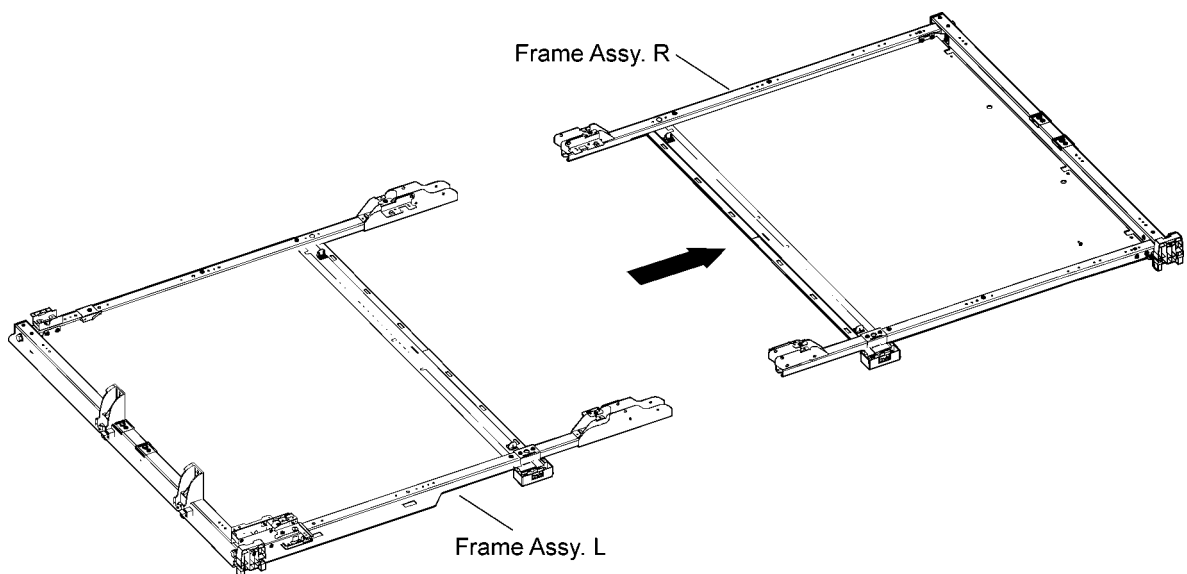
1. Remove the 2 rivets. Then pull the Rear Cover Center in the direction of the arrow to remove it.



2. Remove the screw. Then remove the Panel Hinge Sleeve and Hing Shaft on the upper position.
3. Remove the screw. Then remove the Panel Hinge Sleeve and Hing Shaft on the lower position.

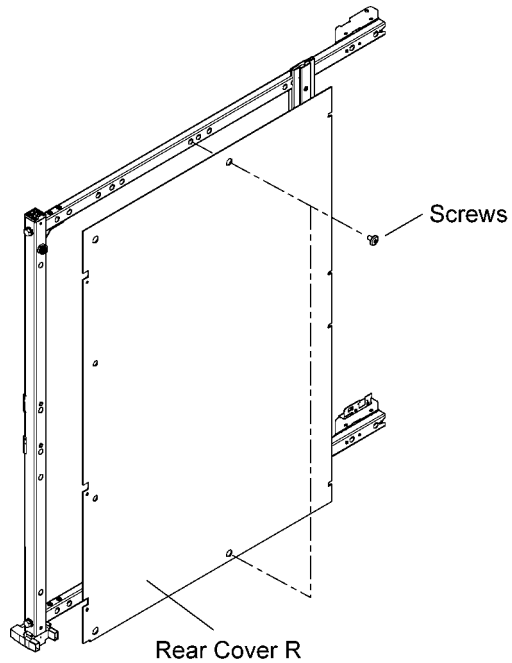


4. Divide the Frame into two pieces.

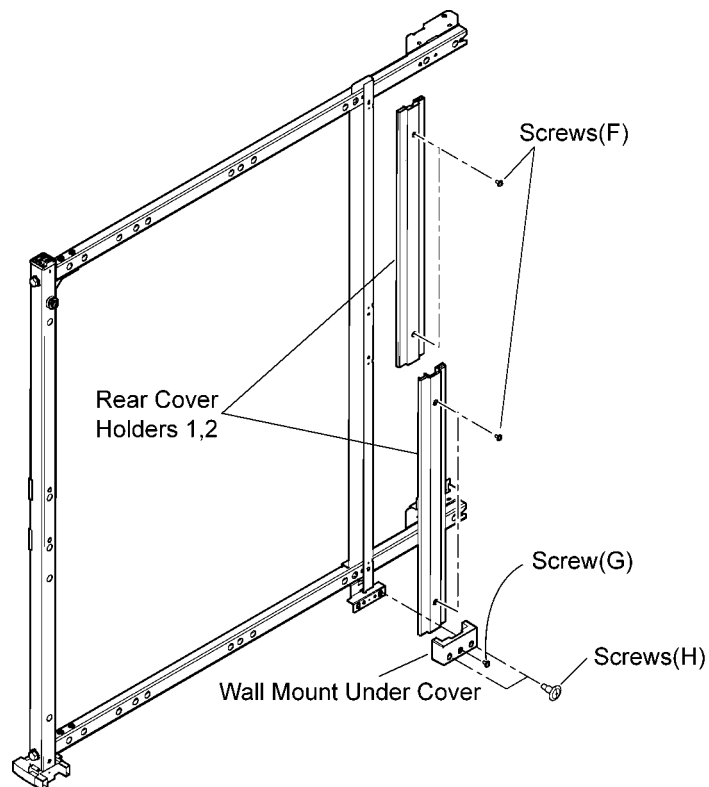


6.10.1. Frame R

1. Remove the Rear Side Cover R. (See “ (Screen Guide R)” in Sec.6.8.)
2. Remove the 4 Screen Guides R. (See “ (Screen Guide R)” in Sec.6.8.)
3. Remove the 2 screws and then remove the Rear Cover R.

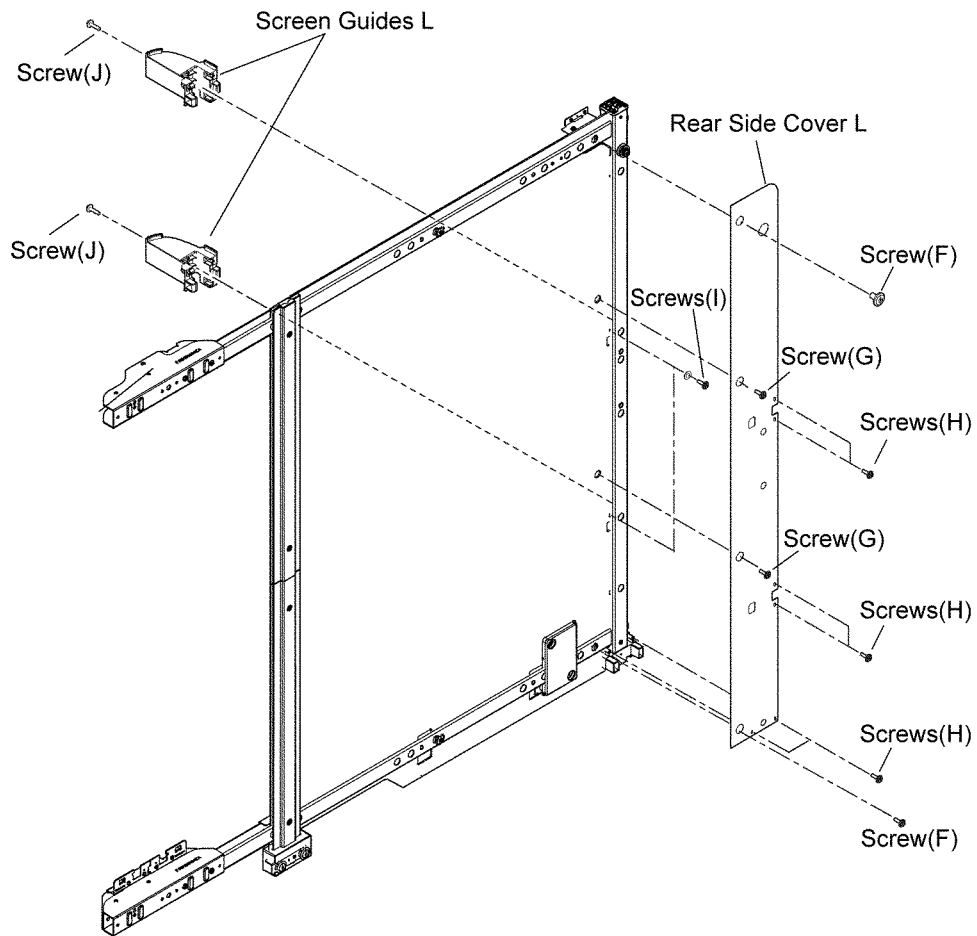


4. If necessary, remove the 4 screws (F), screw (G), and 2 screws (H).
Then remove the Rear Cover Holder 1, Rear Cover Holder 2, and Wall Mount Under Cover.

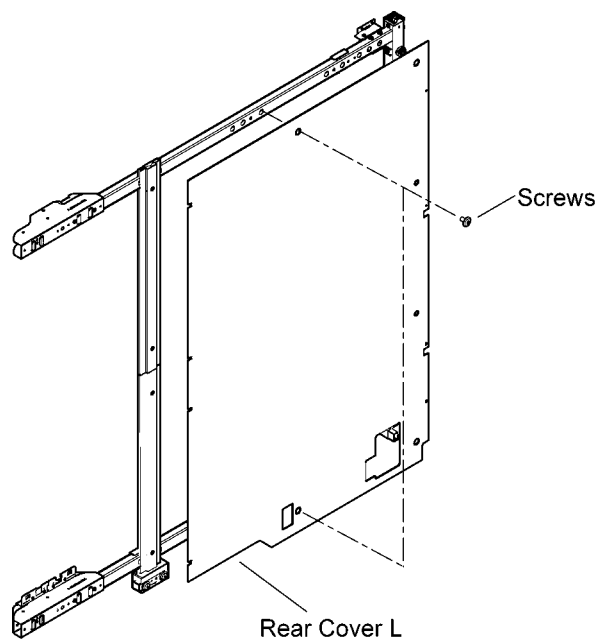


6.10.2. Frame L

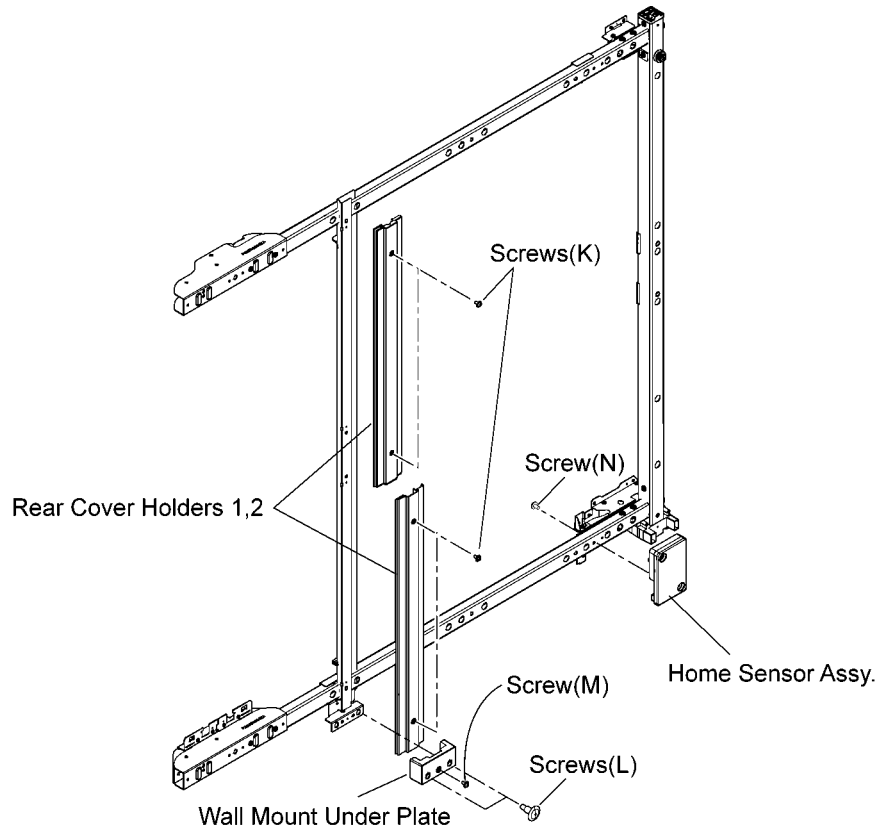
1. Remove the 2 screws (G), 6 screws (H), and 2 screws (F).
Then remove the Rear Side Cover L.
2. Remove the 2 screws (I).
If necessary, remove the 2 screws (J) and then remove the 2 Screen Guides L.



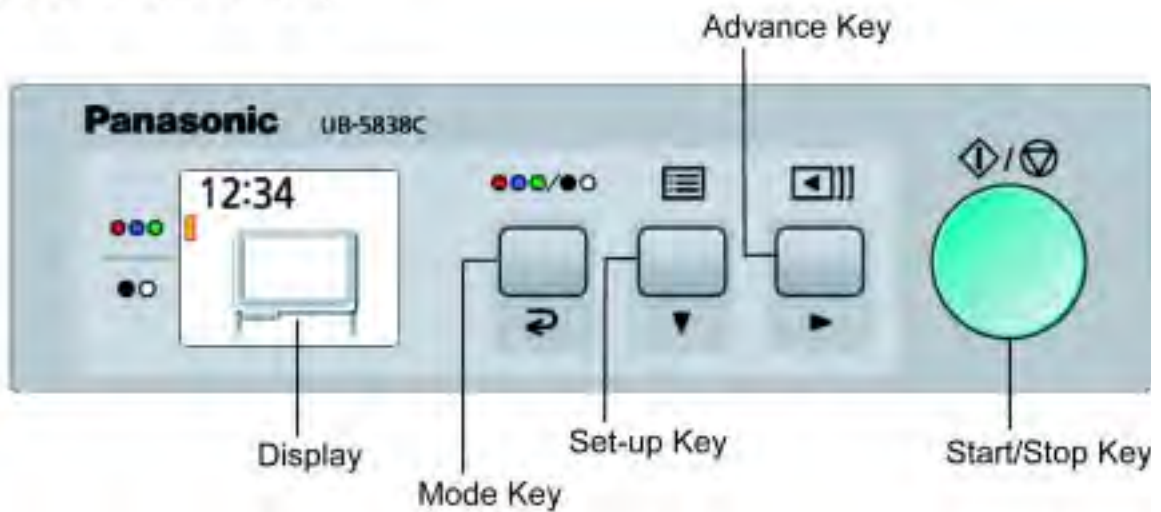
3. Remove the 2 screws and then remove the Rear Cover L.



4. If necessary, remove the 4 screws (K), screw (M), and 2 screws (L) and then remove the Rear Cover Holder 1, Rear Cover Holder 2, and Wall Mount Under Plate.
5. If necessary, remove the screw (N) and then remove the Home Sensor Assy.



7 Service Mode (Control Panel)



7.1. How to enter the service mode

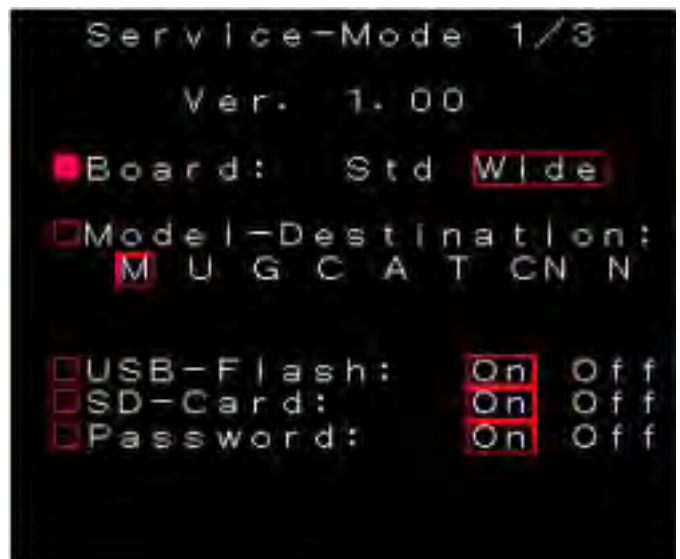
Perform the follow method 1 or method 2 to enter the service mode.

Note:

Without setting the application area/country on this unit (Panaboard), the screen for the Intial Setting Mode is displayed on the LCD when turning on the power.

7.1.1. Method 1

While holding down the Mode, Set-up, and Advance Keys until another screen is displayed so as to enter the Service Mode, turn on the power (except for the above Note in Sec. 7.1).



7.1.2. Method 2

(Step 1)

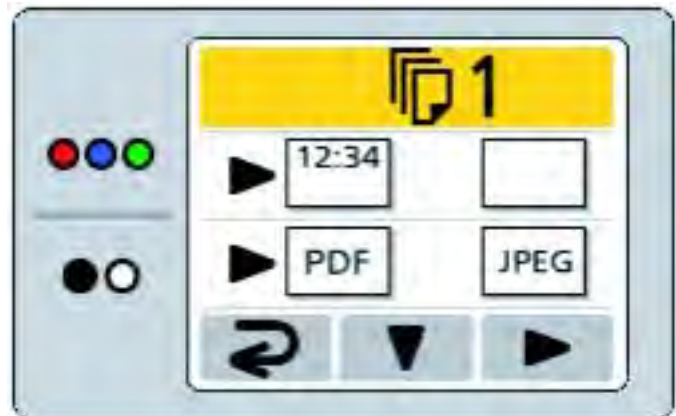
Turn on or restart the power and then check that the initial screen (Fig. 7.1.2.1) is displayed on the LCD.



(Fig. 7.1.2.1)

(Step 2)

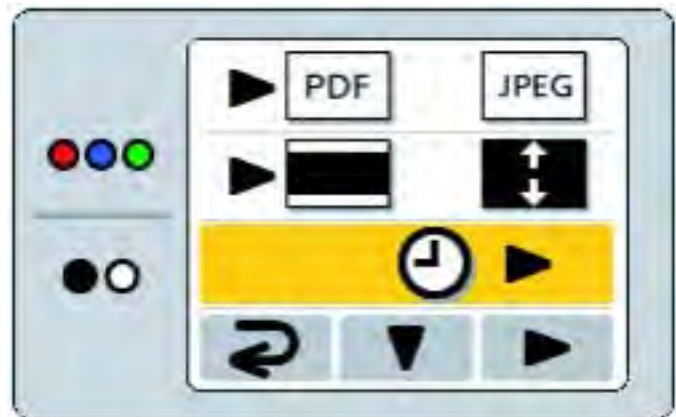
Push the Set-up Key to change the screen (Fig. 7.1.2.2) on the LCD.



(Fig. 7.1.2.2)

(Step 3)

Push the Set-up Key a few times to select time setting menu.



(Fig. 7.1.2.3)

(Step 4)

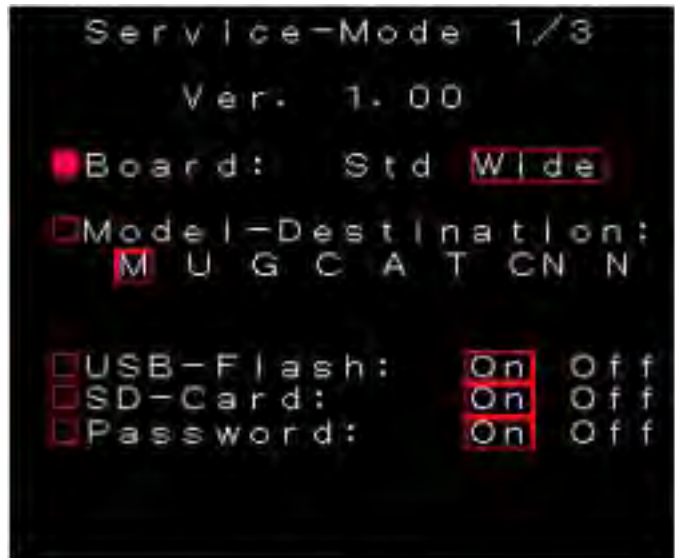
Push the Advance Key to change the screen (Fig. 7.1.2.4) on the LCD.



(Fig. 7.1.2.4)

(Step 5)

While pushing the Advance Key, push the Mode and Set-up Keys for one second or more. Then check that the screen for Service Mode appears.



(Fig. 7.1.2.5)

7.2. Service Mode and Initial Setting Mode

This Panaboard has 3 screens for Service Mode and 1 screen for Initial Setting Mode.

Operating "Set-up Key" and "Advance Key" will enable us to select and set "Menu" and "Item" for Service Mode.

7.2.1. Service Mode

Enter the Service Mode, following Sec. 7.1 "How to enter the service mode".

(Note: Without setting the application area/country, the Initial Setting indication will be displayed shown in Sec. 7.2.2.)

"Set-up Key" operation will enable us to select "Menu". Then "Advance Key" will enable us to select and set "Item".

Service-Mode 1/3
Ver. 1.00
Board: Std Wide
Model-destination:
M U G C A I C N N
USB-Flash: On Off
SD-Card: On Off
Password: On Off

This status shows that "Board" menu is selected.
This status shows "Wide" is selected as the panel size for Panaboard. (Note: Std: Standard screen panel. Wide: Wide screen panel)
Set the application Area/Country.
USB Flash (Memory Device): On (Available), Off (Not available)
SD Memory Card: On (Available), Off (Not available)
Password: On (Effective), Off (Cancelled)
Note: Password
When "Password" is set to "off", the password protection is cancelled. Make sure to manage this operation

Service-Mode 2/3
Output: A4 LT
Date-Lang: ASCII Jpn
Date-Default: DMY MDY YMD
Time: 24H 12H

Set the output size (A4 or Letter)
Set the language (English or Japanese) for date.
Set a date in the following order:
(D: day → M: Month → Y: Year)
Set the display format for time: 12 H or 24 H

Service-Mode 3/3
Save-Shading >>>
Clear-ShadingData >>>
ColorGamma Shift:
-3 -2 -1 0 1 2 3
MonoGamma Shift:
-3 -2 -1 0 1 2 3
LCD-Pattern >>>
SW-Download >>>

On this mode, the shading waveform data whose format is CSV will be stored in a USB Flash Memory Device or SD Memory Card as follows.
Note: When both USB Flash Memory Device and SD Memory Card are set to the unit, the data will be stored in the USB Flash Memory.
File Name:
Color Mode: rhmmssCL CSV
Monochrome: rhmmssBW CSV
Note: "hr" shows hours when the data has been generated.
"mm" shows minutes when the data has been generated.
"ss" shows seconds when the data has been generated.

This operation will allow this unit to clear the shading back-up data (A new shading back-up data will be stored when scanning just after performing this Clear-Shading Data operation.)
Note: Only in case of replacing the CONTROL Board, SCANNER Board, or Scanner Assy., use this operation.

This operation is used for setting the density on a color scanning.
Note: * The larger the value is, the darker the density is.
(The default value is "0".)

This operation is used for setting the density on a B&W scanning.
Note: * The larger the value is, the darker the density is.
(The default value is "0".)

This operation will allow this unit to perform the LCD Test using the LCD Test Pattern shown in Sec 7.3.

This operation is used for updating the firmware.

7.2.2. Initial Setting Mode

Without setting the application area/country, when turning on the unit (Panaboard), the screen for the Initial Setting Mode will be displayed on the LCD.

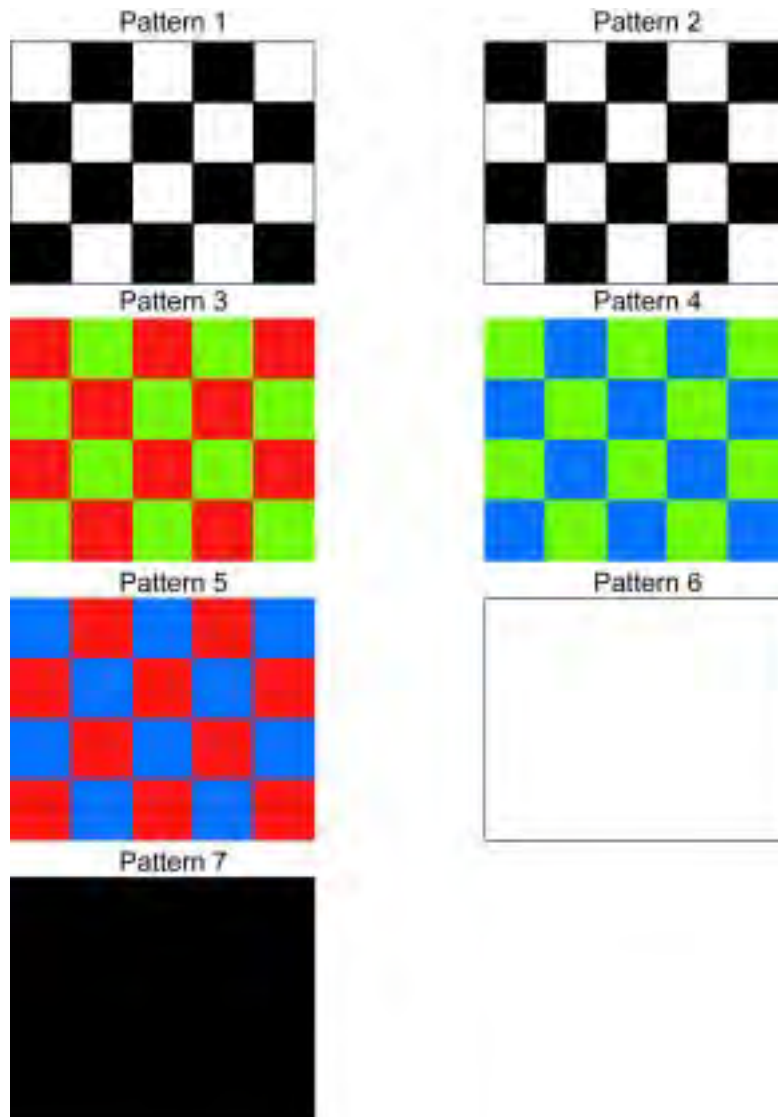
After selecting "Board" on the menu, set the screen panel size (Std or Wide) for this unit with the Advance Key.

Then selecting "Model-Destination" on the menu, set the application area/country for this unit with the Advance Key.



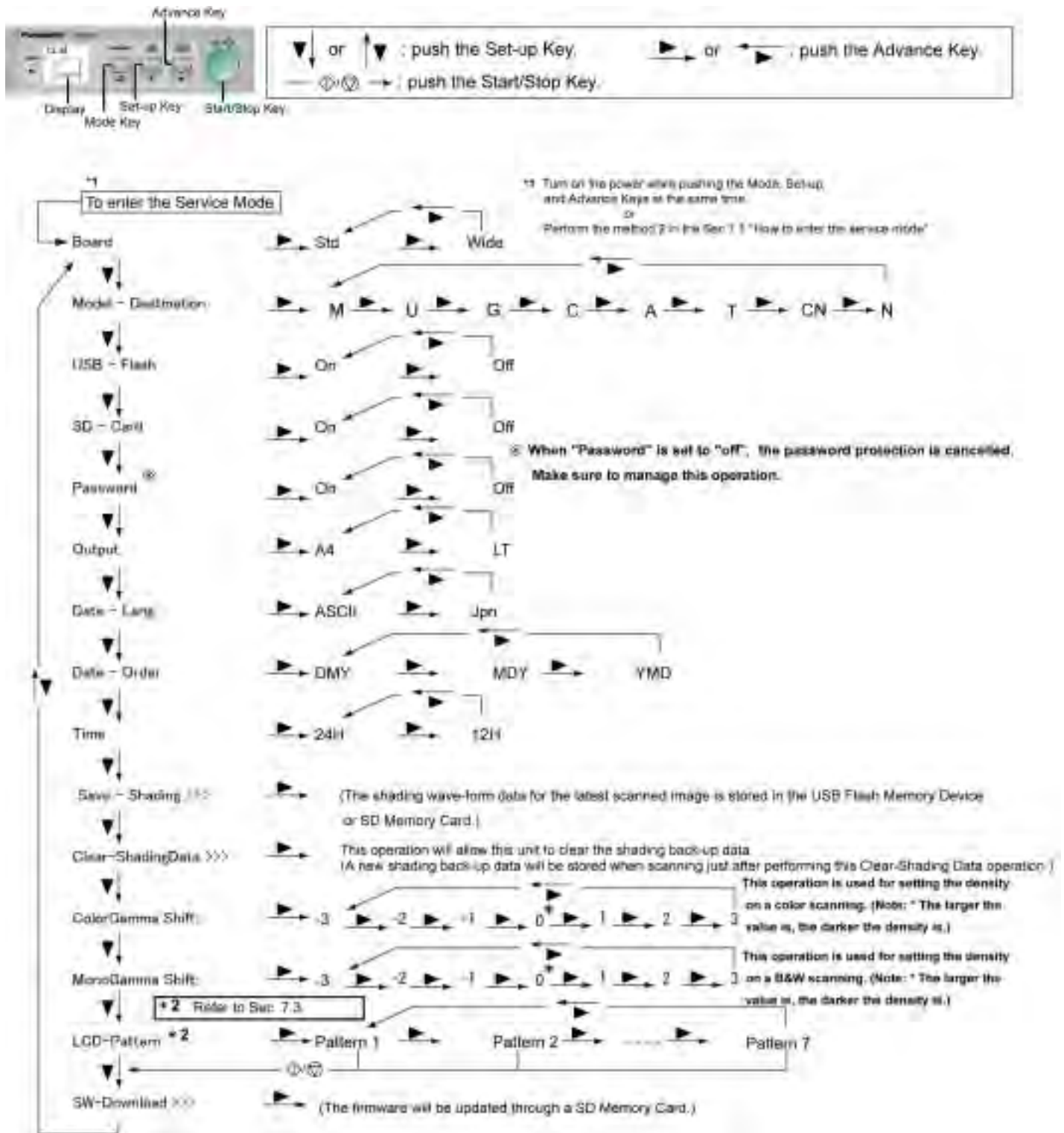
7.3. LCD Test Pattern

Performing the LCD-Pattern on the menu of the Service Mode will allow the following test patterns to be displayed on the screen due to the LCD diagnostics.



7.4. Service Mode Operations

The Service Mode operations are as follows. When exiting the Service Mode, turn off the power.



8 Maintenance

8.1. Maintenance Table

The following Table lists the symptoms that may result when they need to be replaced, cleaned or serviced.

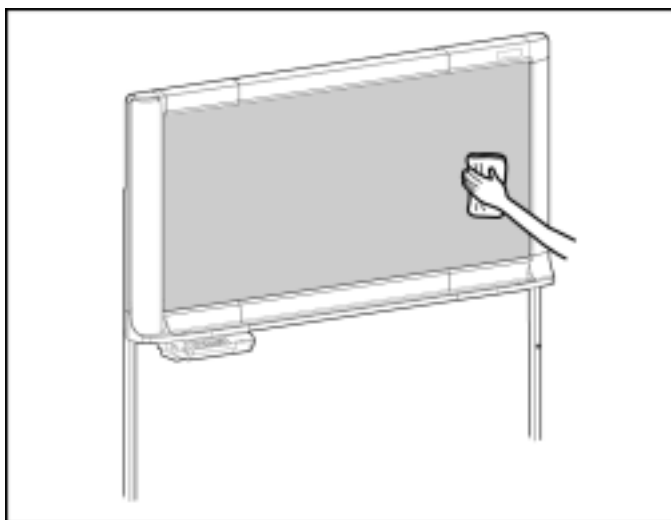
Part Name	Symptom	Type of Maintenance	Reference
Screen Film	With a Panaboard eraser that has anew surface for erasing, drawings written by Panaboard Markers on the screen surface is not erased enough.	Clean	See Sec.8.2.
Eraser	Erasing surface of the Panaboard eraser becomes dirty.	Renew	See Sec. 8.3.
Battery	The time setup screen is displayed each time this unit is turned on the power.	Replace	See Sec. 8.4.

8.2. Cleaning Screen Film

Gently wipe the screen film and unit with a water dampened cloth that has been thoroughly wrung.

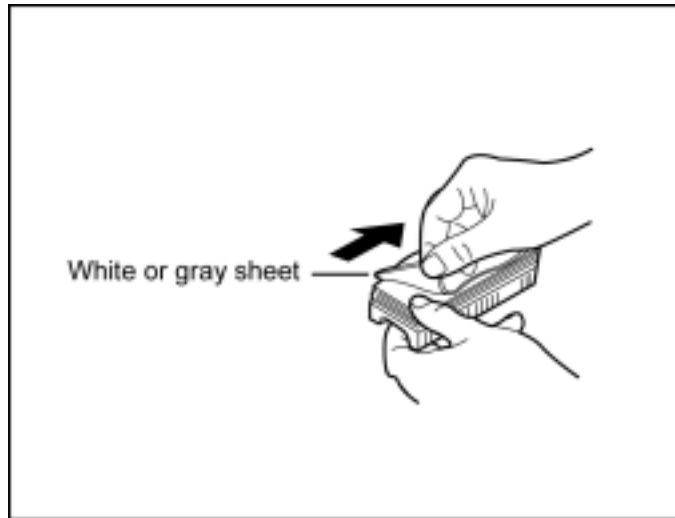
Note:

1. Use a neutral kitchen cleaner diluted with water for hard-to-clean stain.
(If you accidentally write on the screen with an oil-based marker, wipe with a small amount of ethyl alcohol.)
2. Do not use thinner, benzine or cleaners containing abrasives or surfactants, as this may result in discoloration or difficulty of erasing.
3. Do not wipe the screen film with a dry cloth as this may generate a static charge.



8.3. Caring for Eraser

When the erasing surface of the eraser becomes dirty, hold down the sheet under the top sheet with your finger and peel off the dirty sheet (white or gray sheet) by pulling in the direction of the arrow.



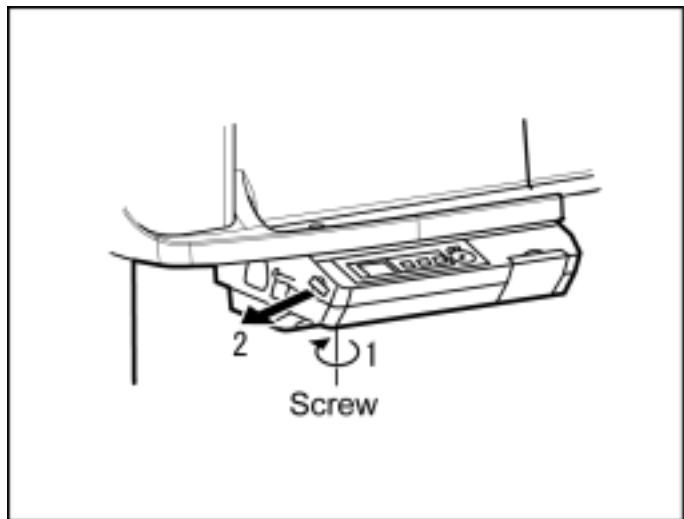
Note:

1. Be sure to peel off only one sheet; white or gray sheet of the eraser.
2. When the eraser becomes thin, make sure that the corners of the eraser do not strike the screen during erasing as this may damage the screen.

8.4. Replacing the Battery

When the clock battery has been drained, the time-setup screen is displayed each time the unit's power is turned on. In this case, replace the battery as follows and set the current time.

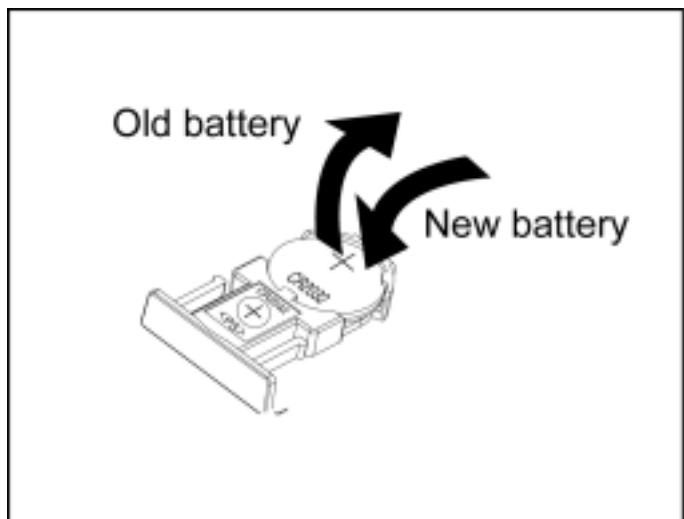
1. Loosen the screw attached to the lower side of the Control Panel 1, then remove the battery holder 2.



2. Remove the old battery and install the new one with the positive (“+”) terminal upward.

Note:

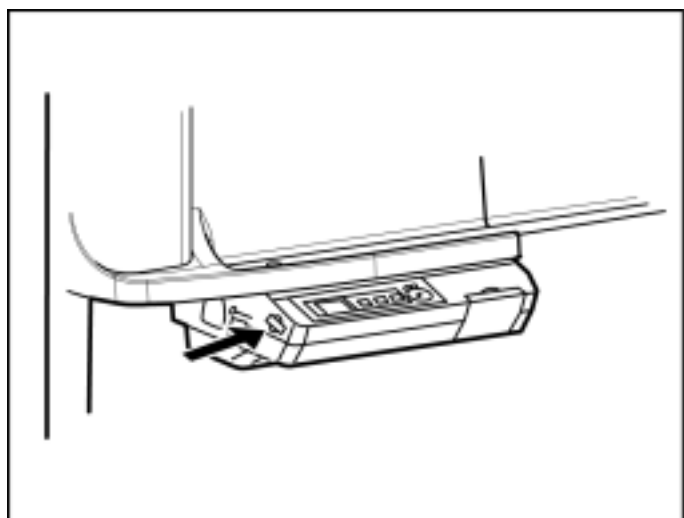
Always use “CR2032” batteries and be sure that the battery is inserted as indicated on the battery holder.



3. Set the battery holder with the battery side upward and retighten the screw.
4. Set the current time. (See Sec.7.2.1.)

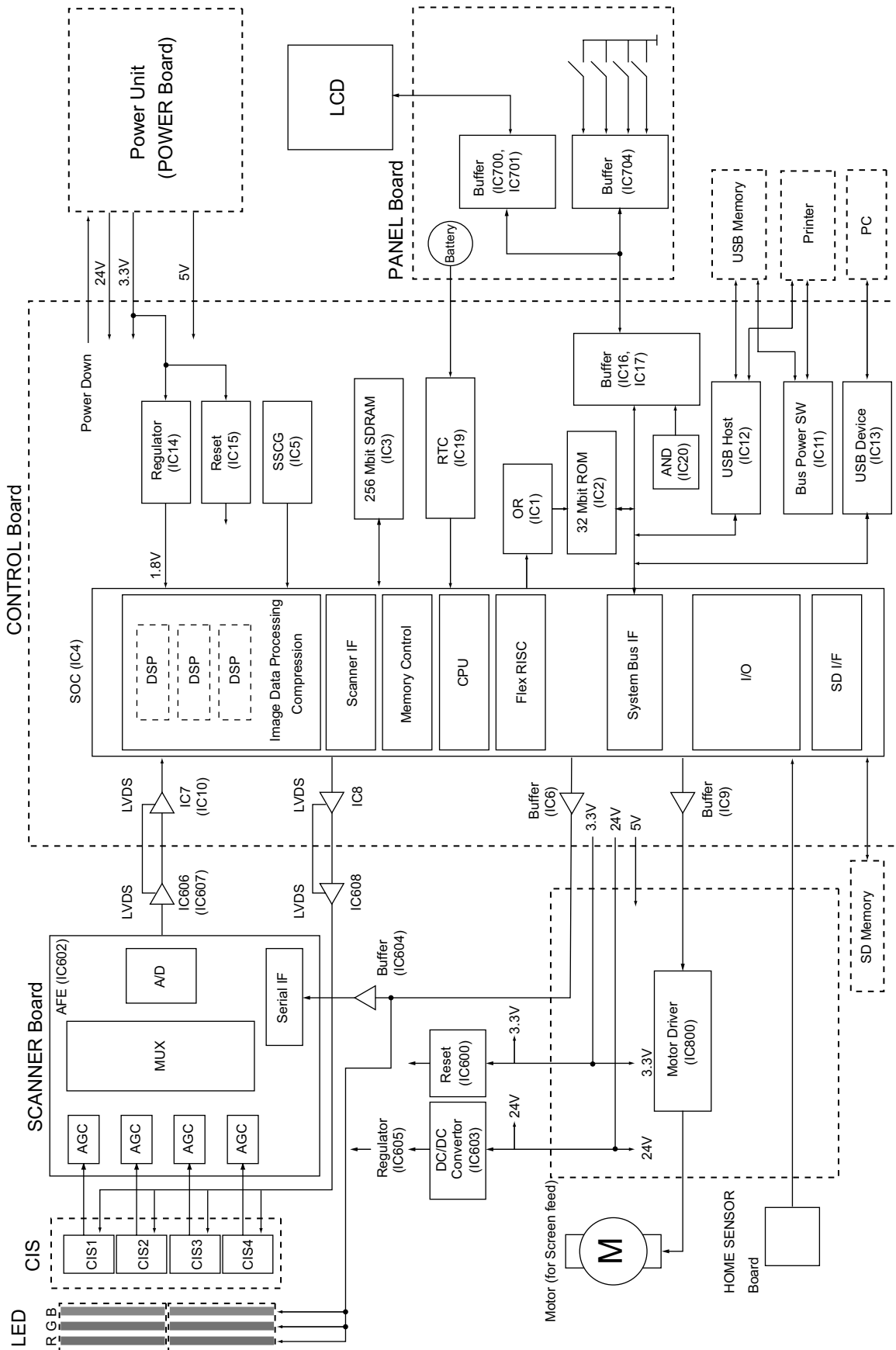
Note:

Dispose of expired battery quickly, by covering the terminals in tape and following the disposal regulations in your country/area.

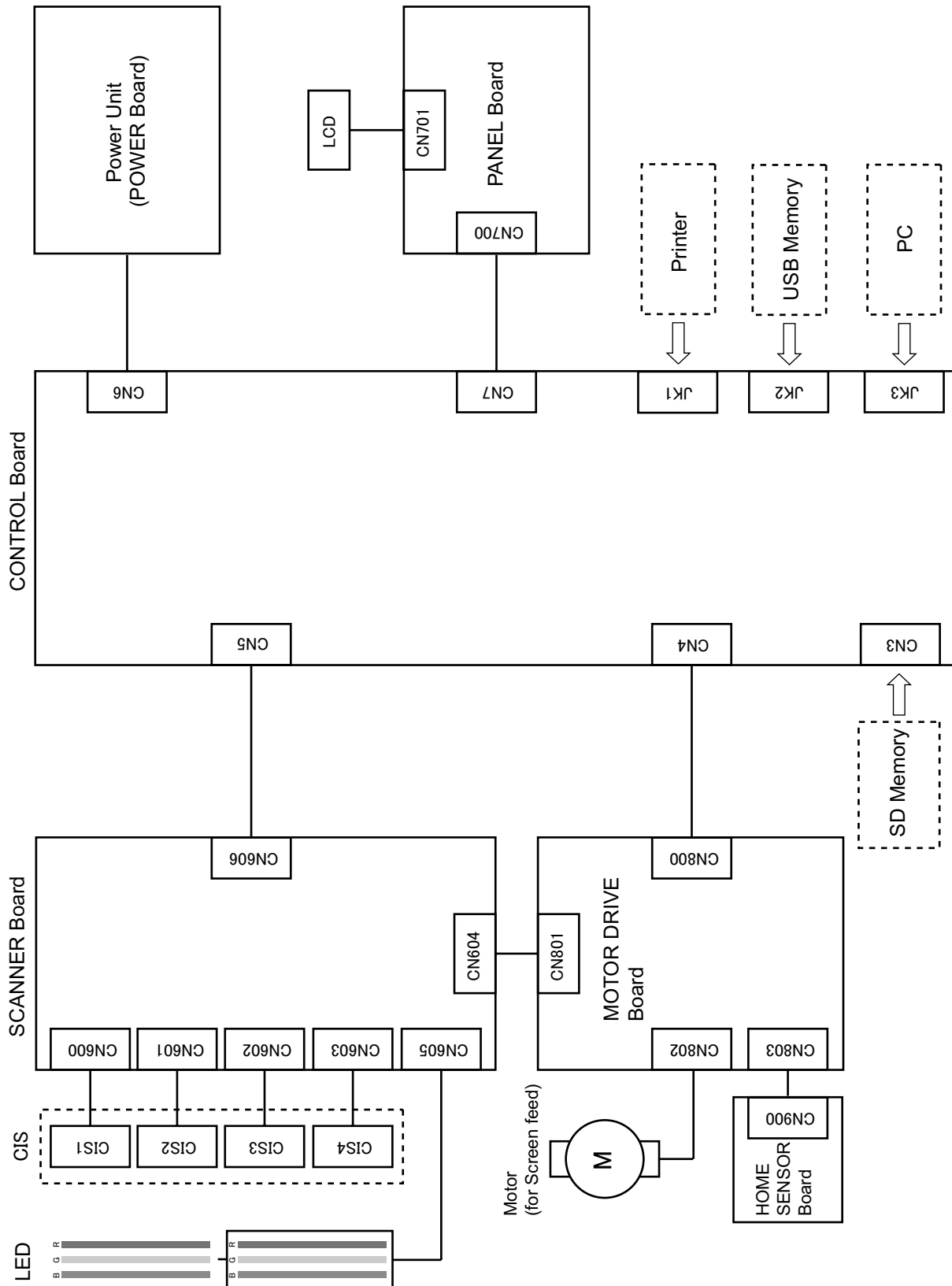


9 Block and Connection Diagrams

9.1. Block Diagram



9.2. Connection Diagram



10 Explanation of Connector

CN3 [CONTROL Board] - SD Memory Card

Pin No.		Signal Name	Description	Remarks
CN3	SD Memory Card			
1	1	NSDCS	Chip Select Signal	Lower Active
2	2	SPIDO	Control Output Data	
3	3	GND	Ground	
4	4	+3.3VDD	+3.3 V	
5	5	SPICLK	Clock	
6	6	GND	Ground	
7	7	SPIDI	Control Input Data	
8	8	RSV	Reserve	
9	9	RSV	Reserve	
10	10	SPIEXIST	SD Card Detection Signal	
11	11	Common	Ground	
12	12	SPWP	Write Protect Signal	

CN4 [CONTROL Board] - CN800 [MOTOR DRIVE Board]

Pin No.		Signal Name	Description	Remarks
CN4	CN800			
1	1	+24 V	+ 24 V	
2	2	+24 V	+ 24 V	
3	3	PG	Ground	
4	4	PG	Ground	
5	5	INA	Motor Drive Signal (INA)	
6	6	TDA	Motor Drive Signal (TDA)	
7	7	INB	Motor Drive Signal (INB)	
8	8	TDB	Motor Drive Signal (TDB)	
9	9	AGND	Ground	
10	10	AGND	Ground	
11	11	PDOWN	Current Control Signal	
12	12	RESERVE1	Reserved	
13	13	+3.3AVDD	+ 3.3 V	
14	14	+3.3AVDD	+ 3.3 V	
15	15	+3.3AVDD	+ 3.3 V	
16	16	HOME	Home Sensor Signal	
17	17	RESERVE2	Reserved	
18	18	AFESPDI	AFE Serial Signal (Control Input Signal)	
19	19	NAFECS	AFE Serial Signal (Chip Select Signal)	Low Active
20	20	AFESPDO	AFE Serial Signal (Control Output Signal)	
21	21	AFESPICLK	AFE Serial Signal (Clock)	
22	22	AGND	Ground	
23	23	RLED	LED Control Signal (Red)	
24	24	GLED	LED Control Signal (Green)	
25	25	BLED	LED Control Signal (Blue)	
26	26	+5VCC	+ 5 V	
27	27	AGND	Ground	
28	28	+5VCC	+ 5 V	

CN5 [CONTROL Board] - CN606 [SCANNER Board]

Pin No.		Signal Name	Description	Remarks
CN5	CN606			
1	1	SCANDET	Scanner Detection Signal	
2	2	D7M	Image Data Differencial Signal (D7-)	
3	3	D7P	Image Data Differencial Signal (D7+)	
4	4	D6P	Image Data Differencial Signal (D6+)	
5	5	D6M	Image Data Differencial Signal (D6-)	
6	6	AGND	Ground	
7	7	D5P	Image Data Differencial Signal (D5+)	
8	8	D5M	Image Data Differencial Signal (D5-)	
9	9	D4M	Image Data Differencial Signal (D4-)	
10	10	D4P	Image Data Differencial Signal (D4+)	
11	11	AGND	Ground	
12	12	D3M	Image Data Differencial Signal (D3-)	
13	13	D3P	Image Data Differencial Signal (D3+)	
14	14	D2P	Image Data Differencial Signal (D2+)	
15	15	D2M	Image Data Differencial Signal (D2-)	
16	16	AGND	Ground	
17	17	D1P	Image Data Differencial Signal (D1+)	
18	18	D1M	Image Data Differencial Signal (D1-)	
19	19	D0M	Image Data Differencial Signal (D0-)	
20	20	D0P	Image Data Differencial Signal (D0+)	
21	21	AGND	Ground	
22	22	ADCLKM	AD Clock Differencial Signal (-)	
23	23	ADCLKP	AD Clock Differencial Signal (+)	
24	24	SHDP	Sample Hold Differencial Signal (+)	
25	25	SHDM	Sample Hold Differencial Signal (-)	
26	26	AGND	Ground	
27	27	CISCLKP	CIS Clock Differencial Signal (+)	
28	28	CISCLKM	CIS Clock Differencial Signal (-)	
29	29	NSI1	CIS Line Start Signal	Lower Active
30	30	AGND	Ground	

CN6 [CONTROL Board] - POWER Board

Pin No.		Signal Name	Description	Remarks
CN6	POWER Board			
1	1	+24VCC	+ 24 V	
2	2	+24VCC	+ 24 V	
3	3	GND	Ground	
4	4	GND	Ground	
5	5	GND	Ground	
6	6	GND	Ground	
7	7	+5VCC	+ 5 V	
8	8	+3.3VDD	+ 3.3 V	
9	9	PWRDWN	Output Control Signal	
10	10	NC	Not Connected	

CN7 [CONTROL Board] - CN700 [PANEL Board]

Pin No.		Signal Name	Description	Remarks
CN7	CN700			
1	1	BAT1	Power from Battery	
2	2	+5VCC	+ 5 V	
3	3	+3.3VDD	+ 3.3 V	
4	4	GND	Ground	
5	5	NPRESET	Reset Signal	Lower Active
6	6	PA0	System Bus Address Signal (A0)	
7	7	NLCDCS	LCD Chip Select	Lower Active
8	8	NKEYCS	KEY Chip Select	Lower Active
9	9	NPWR	Write Signal	Lower Active
10	10	NPRD	Read Signal	Lower Active
11	11	GND	Ground	
12	12	PSBD0	System Bus Data Signal (D0)	
13	13	PSBD1	System Bus Data Signal (D1)	
14	14	PSBD2	System Bus Data Signal (D2)	
15	15	PSBD3	System Bus Data Signal (D3)	
16	16	PSBD4	System Bus Data Signal (D4)	
17	17	PSBD5	System Bus Data Signal (D5)	
18	18	PSBD6	System Bus Data Signal (D6)	
19	19	PSBD7	System Bus Data Signal (D7)	
20	20	GND	Ground	
21	21	PPORT	Port Signal	
22	22	GND	Ground	

JK1 [CONTROL Board] - Printer

Pin No.		Signal Name	Description	Remarks
JK1	Printer			
1	1	VBUS	VBUS Signal	
2	2	D-	D- Signal	
3	3	D+	D+ Signal	
4	4	Ground	Ground	

JK2 [CONTROL Board] - USB Flash Memory Device

Pin No.		Signal Name	Description	Remarks
JK2	USB Flash Memory Device			
1	1	VBUS	VBUS Signal	
2	2	D-	D- Signal	
3	3	D+	D+ Signal	
4	4	Ground	Ground	

JK3 [CONTROL Board] - PC

Pin No.		Signal Name	Description	Remarks
JK3	PC			
1	1	VBUS	VBUS Signal	
2	2	D-	D- Signal	
3	3	D+	D+ Signal	
4	4	Ground	Ground	

CN604 [SCANNER Board] - CN801 [MOTOR DRIVE Board]

Pin No.		Signal Name	Description	Remarks
CN604	CN801			
1	1	GND	Ground	
2	2	+3.3V	+ 3.3 V	
3	3	GND	Ground	
4	4	+3.3V	+ 3.3 V	
5	5	AFESPDI	AFE Serial Signal (Control Input Data)	
6	6	NAFECS	AFE Serial Signal (Chip Select Signal)	Lower Active
7	7	AFESPIDO	AFE Serial Signal (Control Output Data)	
8	8	AFESPICK	AFE Serial Signal (Clock)	
9	9	GND	Ground	
10	10	RLED	LED Control Signal (Red)	
11	11	GLED	LED Control Signal (Green)	
12	12	BLED	LED Control Signal (Blue)	
13	13	+24V	+ 24 V	
14	14	+24V	+ 24 V	
15	15	MGND	Ground	
16	16	MGND	Ground	

CN600/ CN601/ CN602/ CN603 [SCANNER Board] - CIS

Pin No.		Signal Name	Description	Remarks
CN600 CN601 CN602 CN603	CIS			
1	1	GND	Ground	
2	2	CLK	CIS Clock Signal	
3	3	GND	Ground	
4	4	SI	CIS Lien Start Signal	
5	5	GND	Ground	
6	6	+ 3.3 V	+ 3.3 V	
7	7	GND	Ground	
8	8	GND	Ground	
9	9	SIG	CIS Output Data Signal	
10	10	GND	Ground	

CN605 [SCANNER Board] - LED

Pin No.		Signal Name	Description	Remarks
CN605	LED			
1	1	LEDPOW	+ 12 V Power for LED	
2	2	RLED	LED Control Signal (Red)	
3	3	GLED	LED Control Signal (Green)	
4	4	BLED	LED Control Signal (Blue)	

CN701 [PANEL Board] - LCD

Pin No.		Signal Name	Description	Remarks
CN701	LCD			
1	1	LEDSDHX	LED ON/OFF Signal	
2	2	LEDV	+ 5 V (Power Supply for LED)	
3	3	VDD	+ 3.3 V	
4	4	VSS	Ground	
5	5	VSS	Ground	
6	6	D7	Data Signal (D7)	
7	7	D6	Data Signal (D6)	
8	8	D5	Data Signal (D5)	
9	9	D4	Data Signal (D4)	
10	10	D3	Data Signal (D3)	
11	11	D2	Data Signal (D2)	
12	12	D1	Data Signal (D1)	
13	13	D0	Data Signal (D0)	
14	14	RDB	Read Signal	
15	15	WDB	Write Signal	
16	16	RS	Register Select Signal	
17	17	RSTB	Reset Signal	
18	18	CS1B	LCD Chip Select Signal	

CN802 [MOTOR DRIVE Board] - Motor


Pin No.		Signal Name	Description	Remarks
CN802	Motor			
1	1	A	Motor Control Signal (A)	
2	2	A-	Motor Control Signal (A-)	
3	3	B	Motor Control Signal (B)	
4	4	B-	Motor Control Signal (B-)	

CN803 [MOTOR DRIVE Board] - CN900 [HOME SENSOR Board]

Pin No.		Signal Name	Description	Remarks
CN803	CN900			
1	1	GND	Ground	
2	2	HOME	Screen Home-Position Signal	
3	3	+ 3.3V	+ 3.3 V	

11 Schematic Diagram

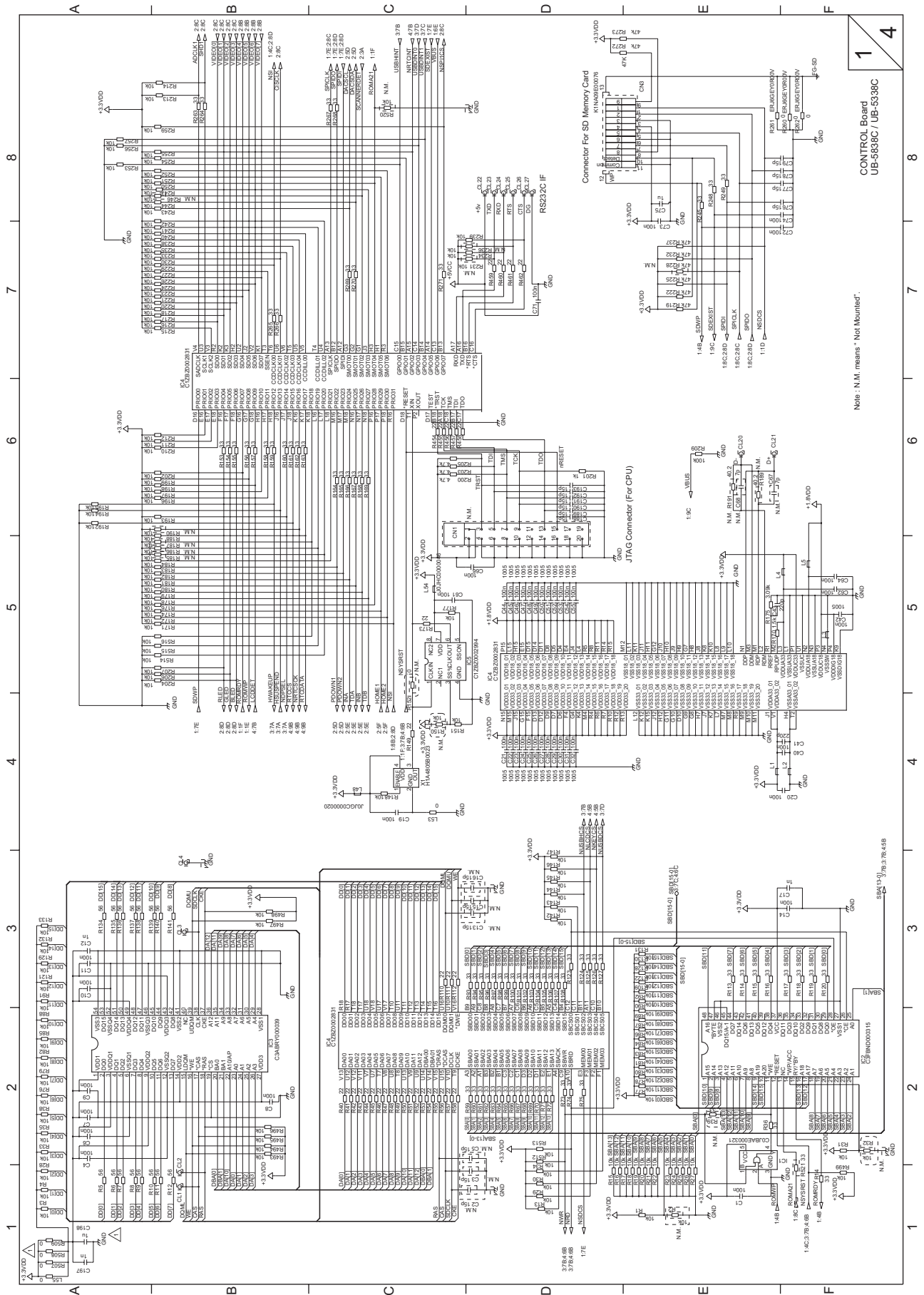
IMPORTANT SAFETY NOTICE

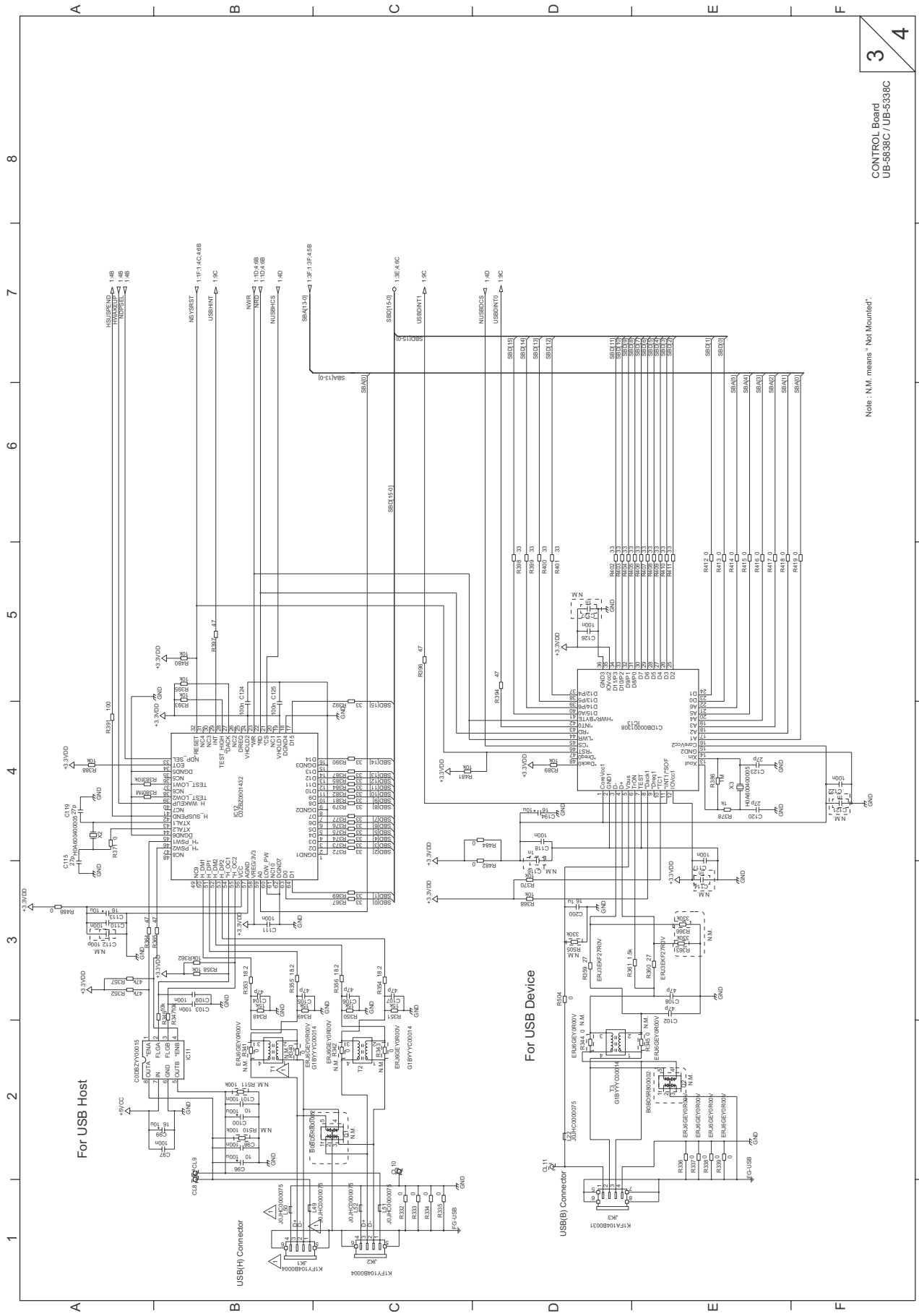
Components identified by  mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Index

- 11.1 CONTROL Board
- 11.2 PANEL Board
- 11.3 SCANNER Board
- 11.4 MOTOR DRIVE Board
- 11.5 HOME SENSOR Board

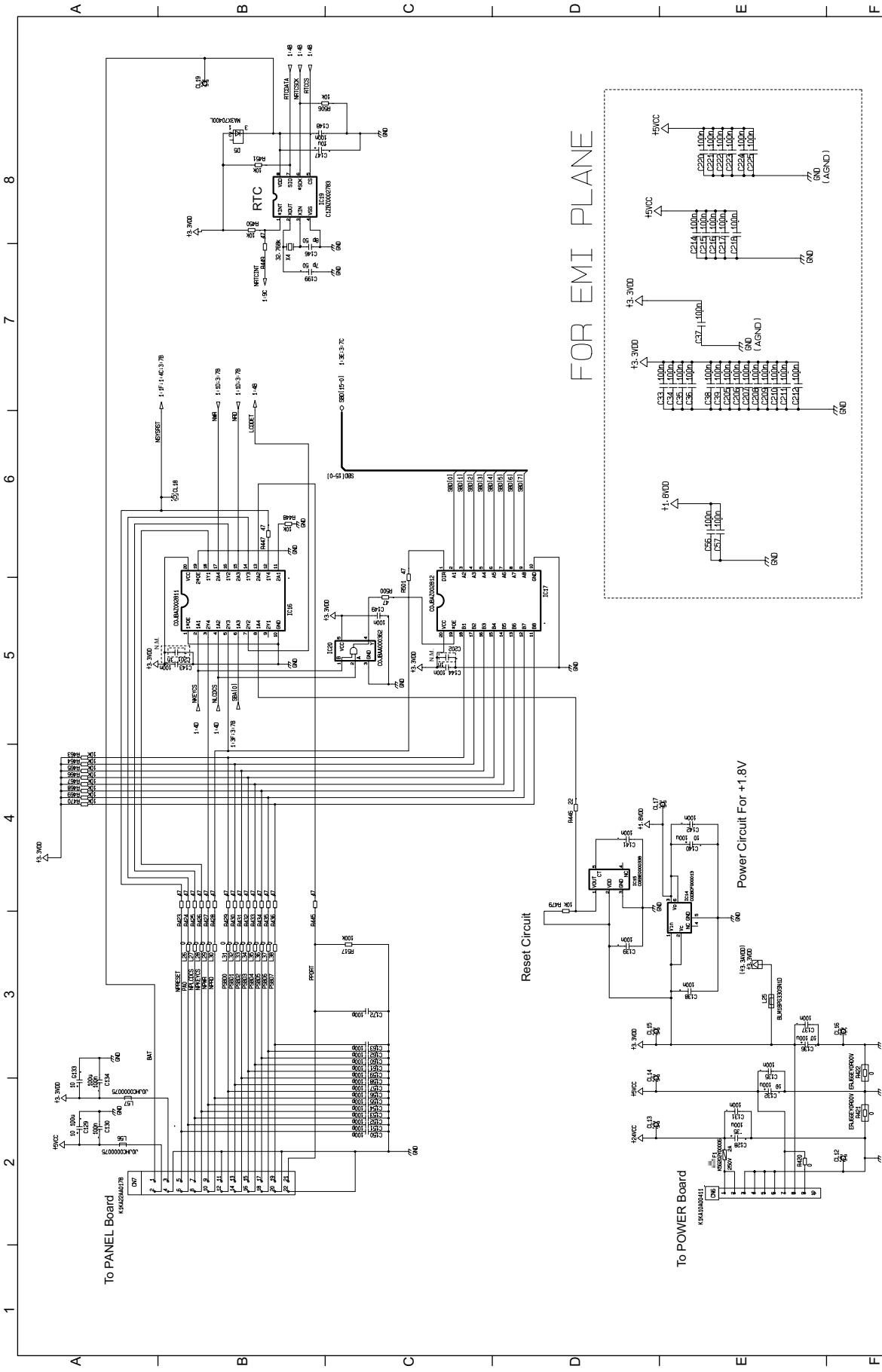
11.1. CONTROL Board





Note: N.M. means "Not Mounted".

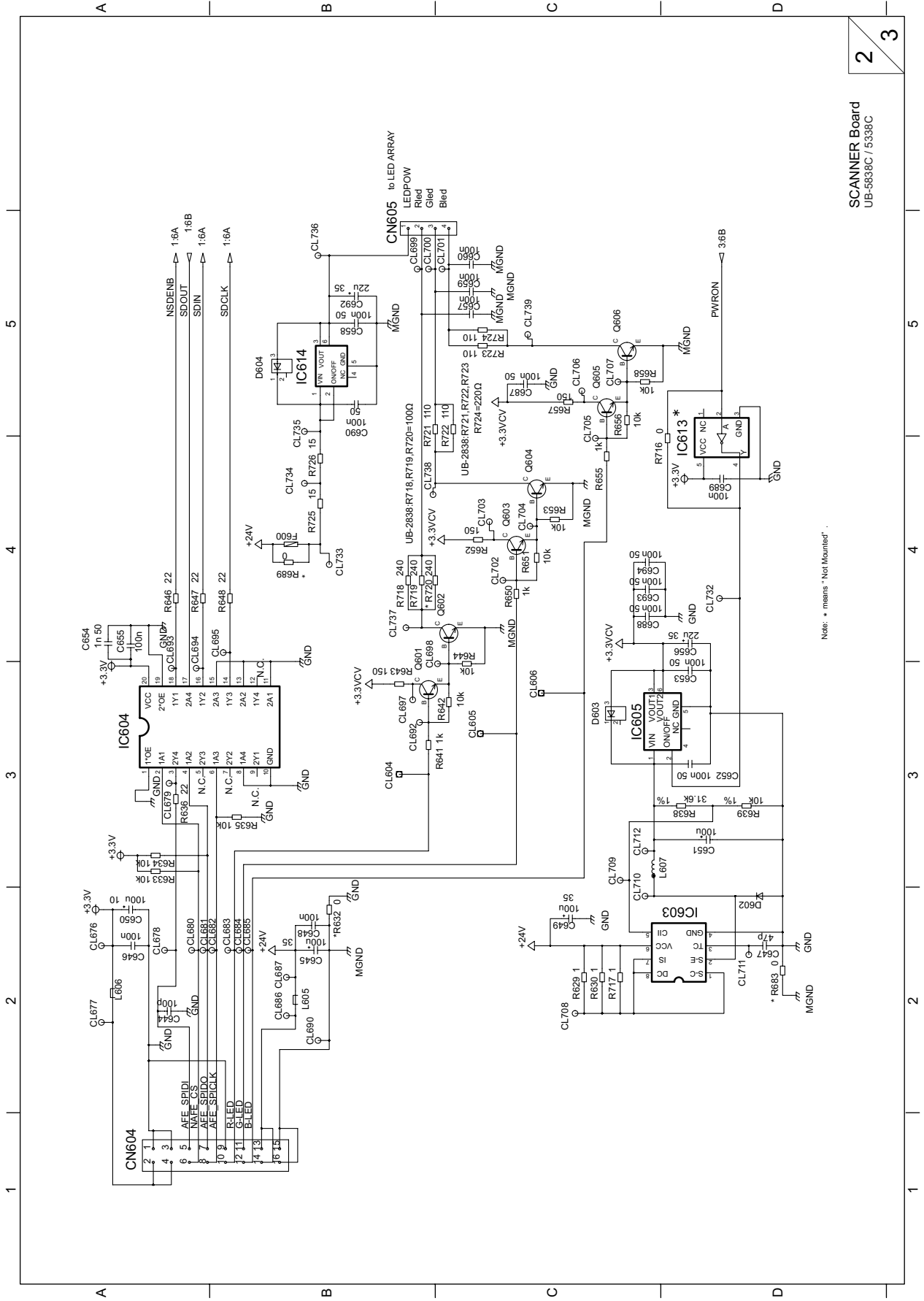
CONTROL Board
UB-5838C / UB-5398C



4 4

CONTROL Board
UB-5338C / UB-5339C

Note: N.M. means "Not Mounted".



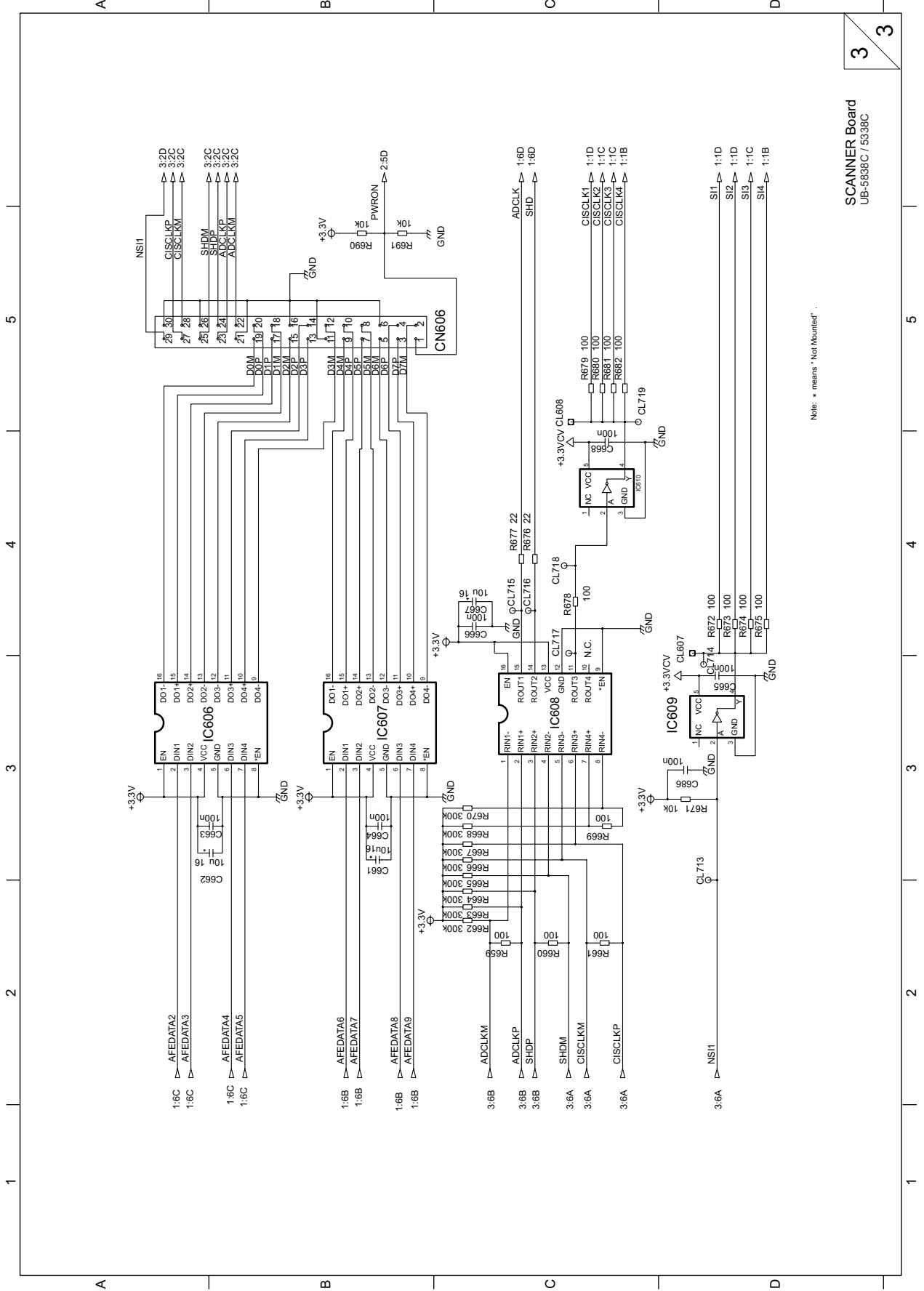
SCANNER Board
UB-5838C/5338C

Note: * means "Not Mounted"

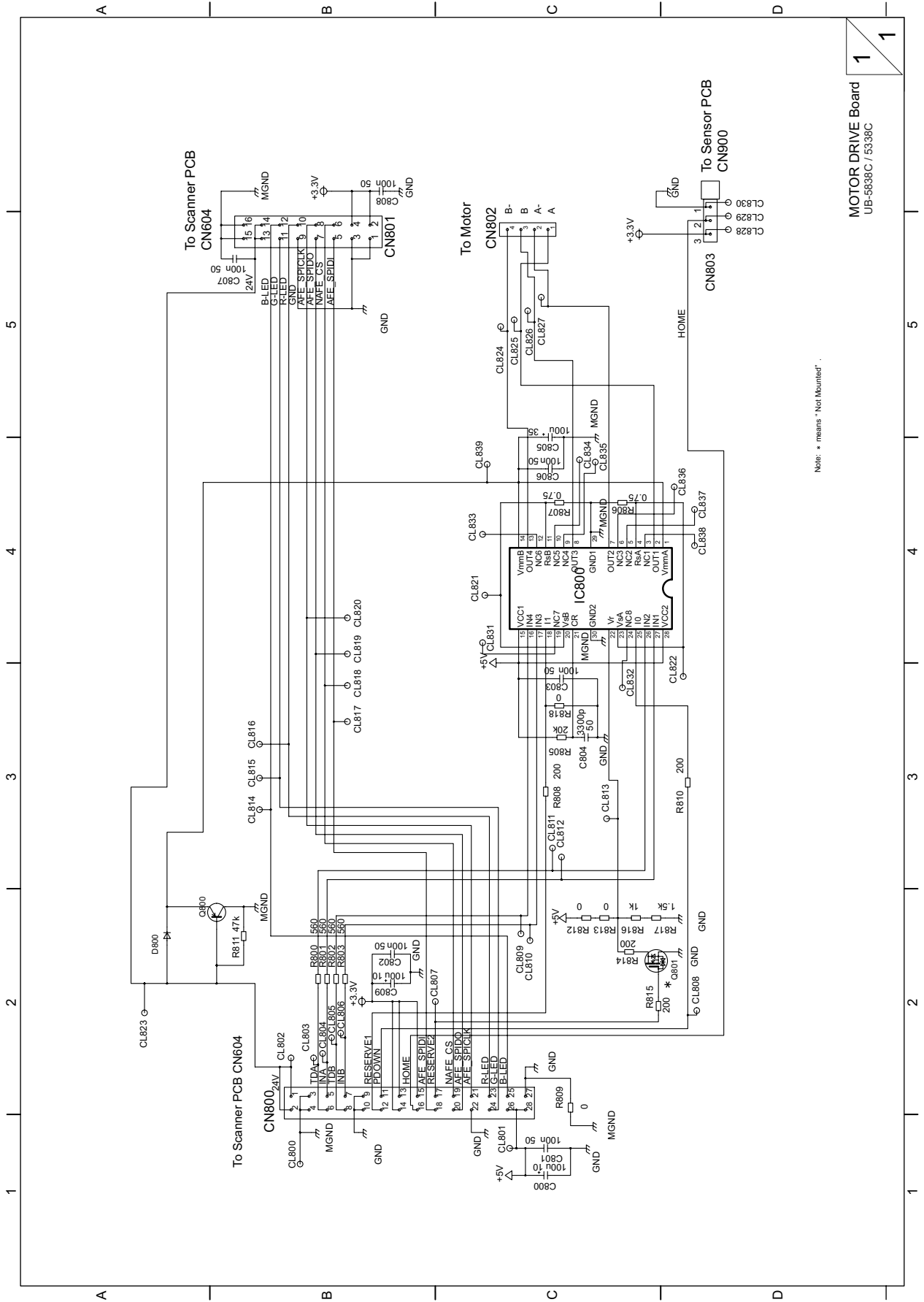
3 3

SCANNER Board
UB-56838C / 5338C

Note: * means "Not Mounted".



11.4. MOTOR DRIVE Board




Note: * means "Not Mounted".

MOTOR DRIVE Board
UB-5838C / 5338C

12 Printed Circuit Board

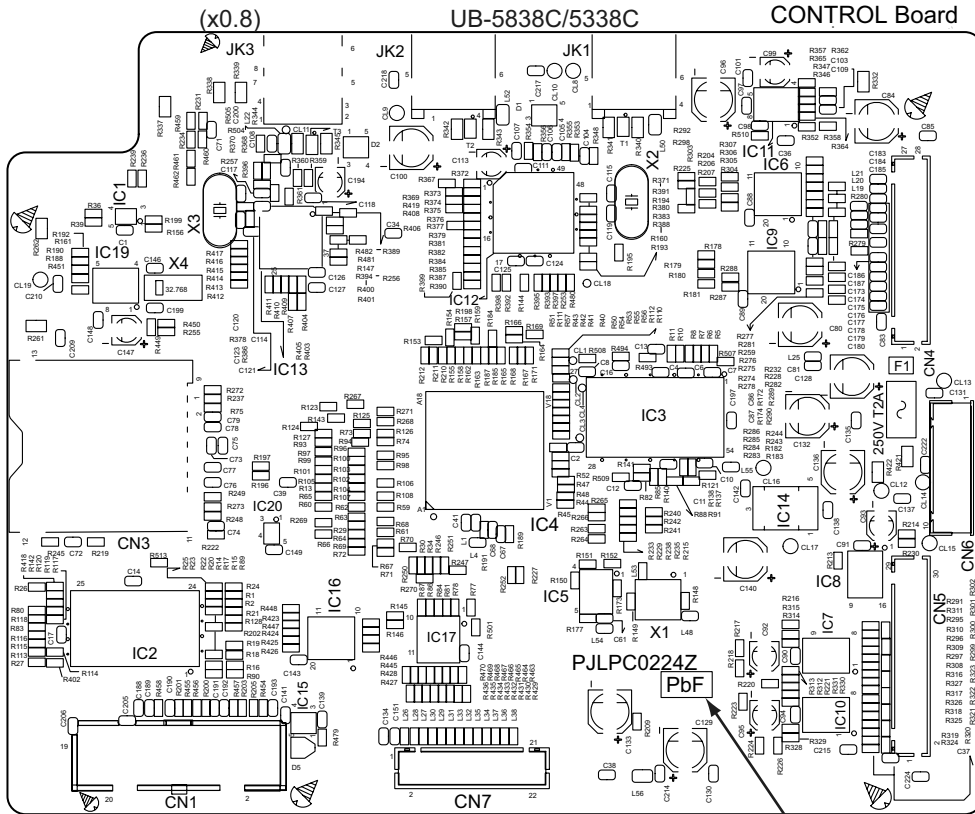
IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

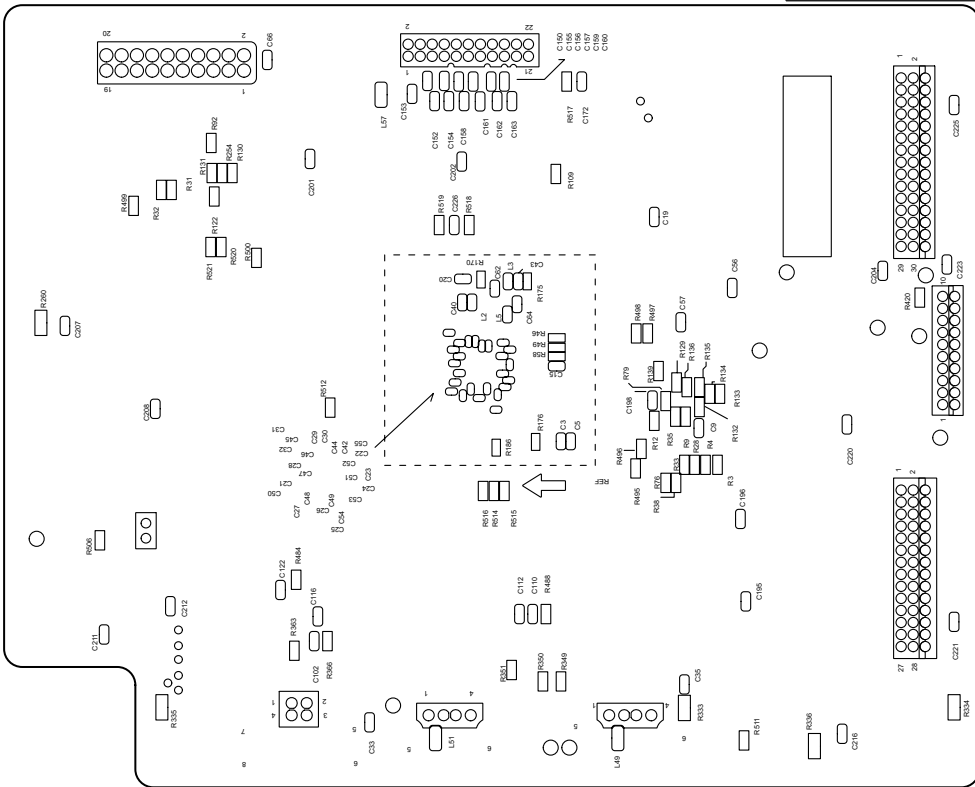
Index

- 12.1 CONTROL Board
- 12.2 PANEL Board
- 12.3 SCANNER Board
- 12.4 MOTOR DRIVE Board
- 12.5 HOME SENSOR Board

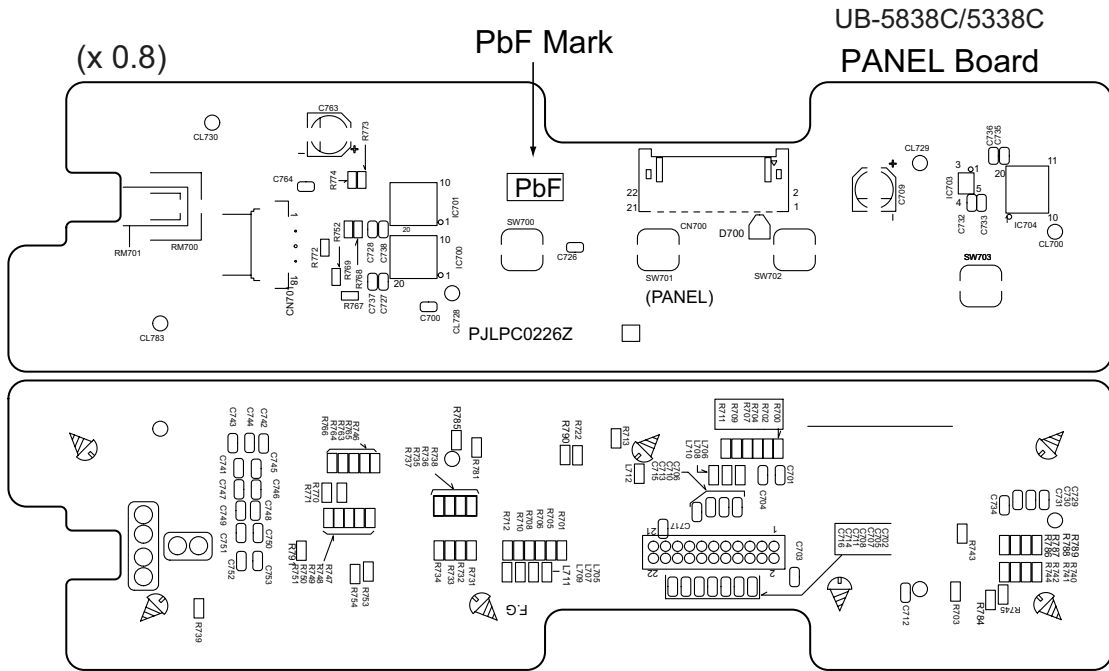
12.1. CONTROL Board



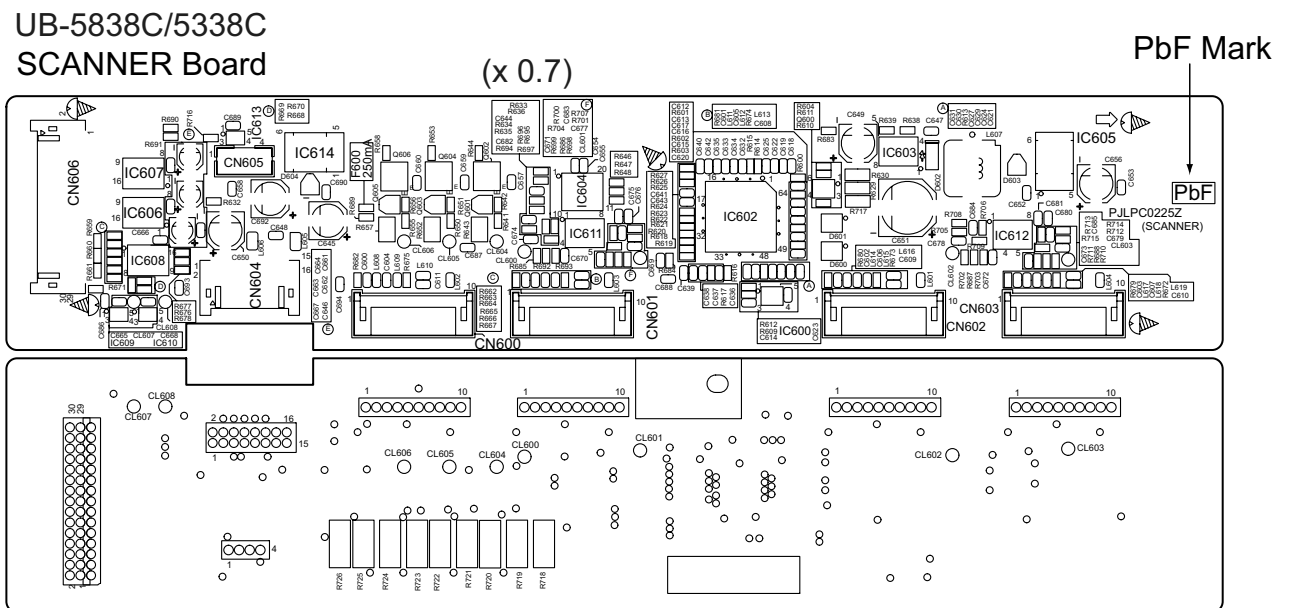
PbF Mark



12.2. PANEL Board

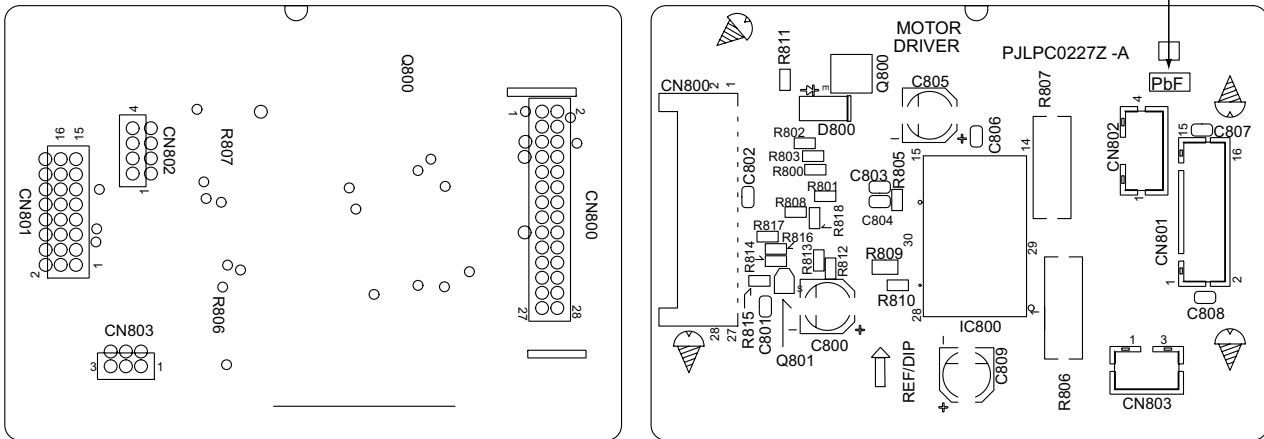


12.3. SCANNER Board

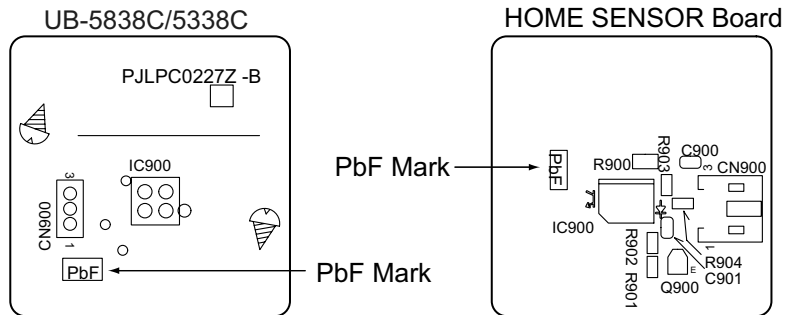


12.4. MOTOR DRIVE Board

UB-5838C/5338C
MOTOR DRIVE Board




12.5. HOME SENSOR Board



13 Exploded View and Replacement Parts List

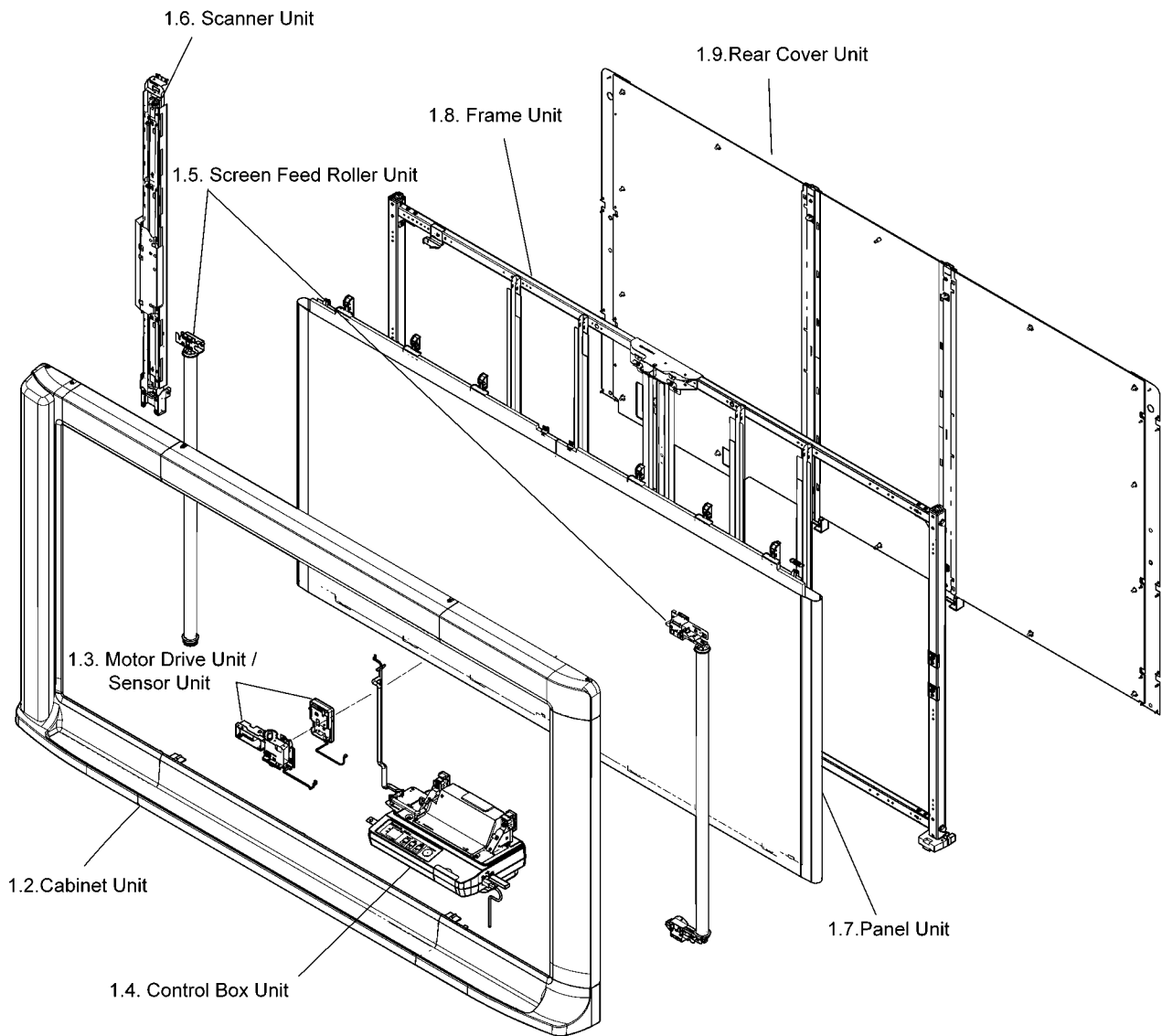
IMPORTANT SAFETY NOTICE

Components identified by  mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

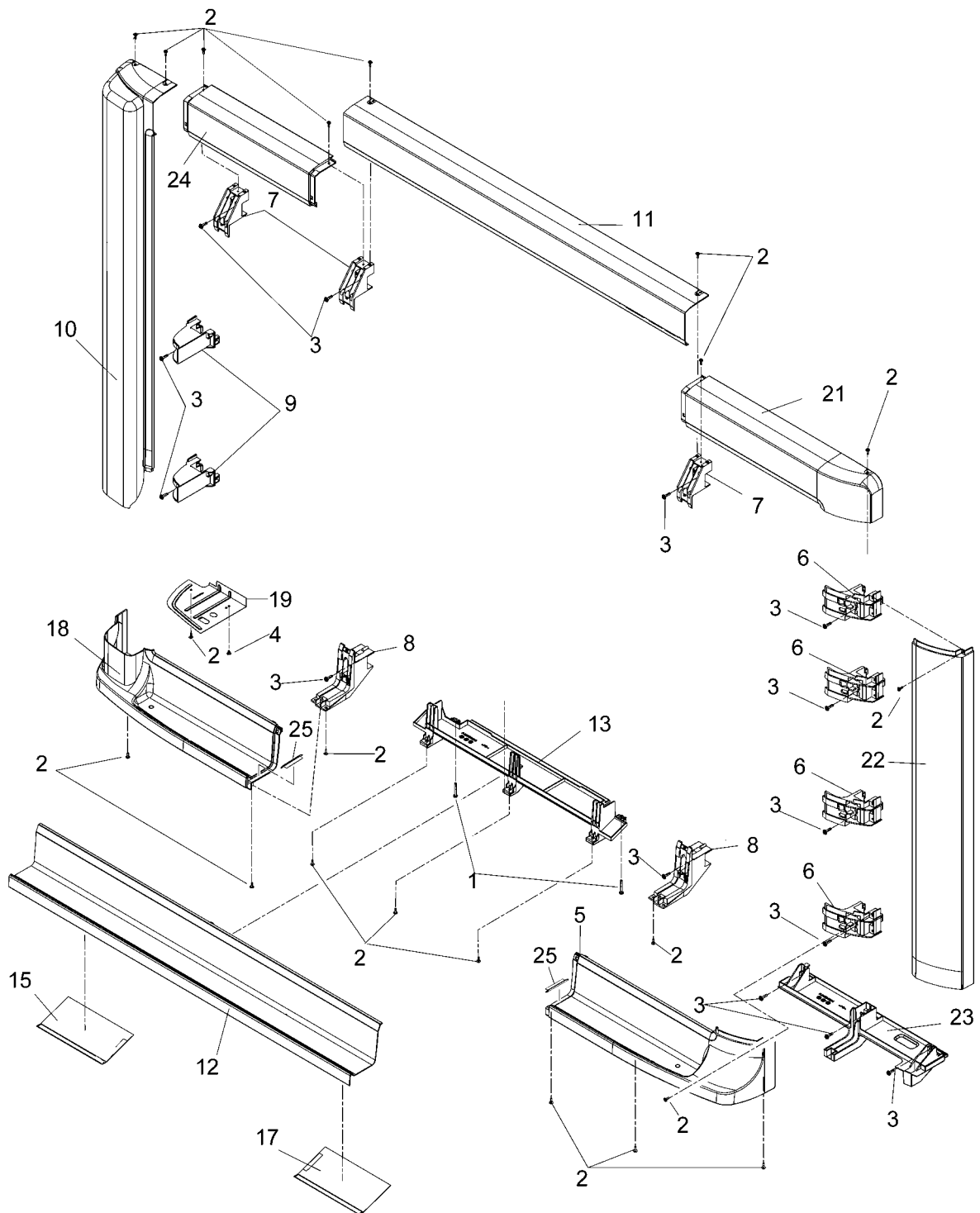
Note: RTL (Retention Time Limited)

The mark (RTL) indicates that the Retention Time is limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.

13.1. Framework of Projected Diagram

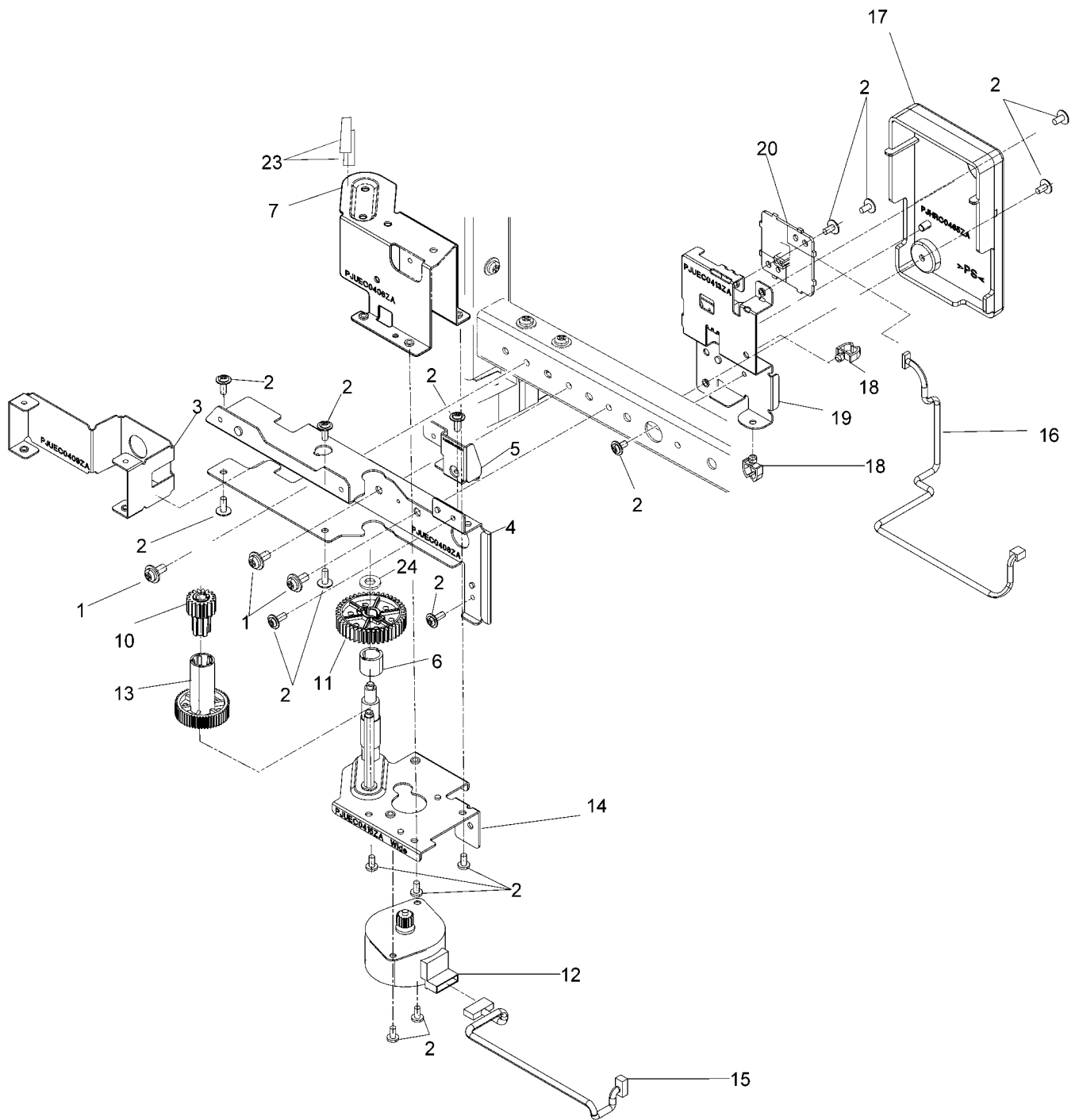


13.2. Cabinet Unit



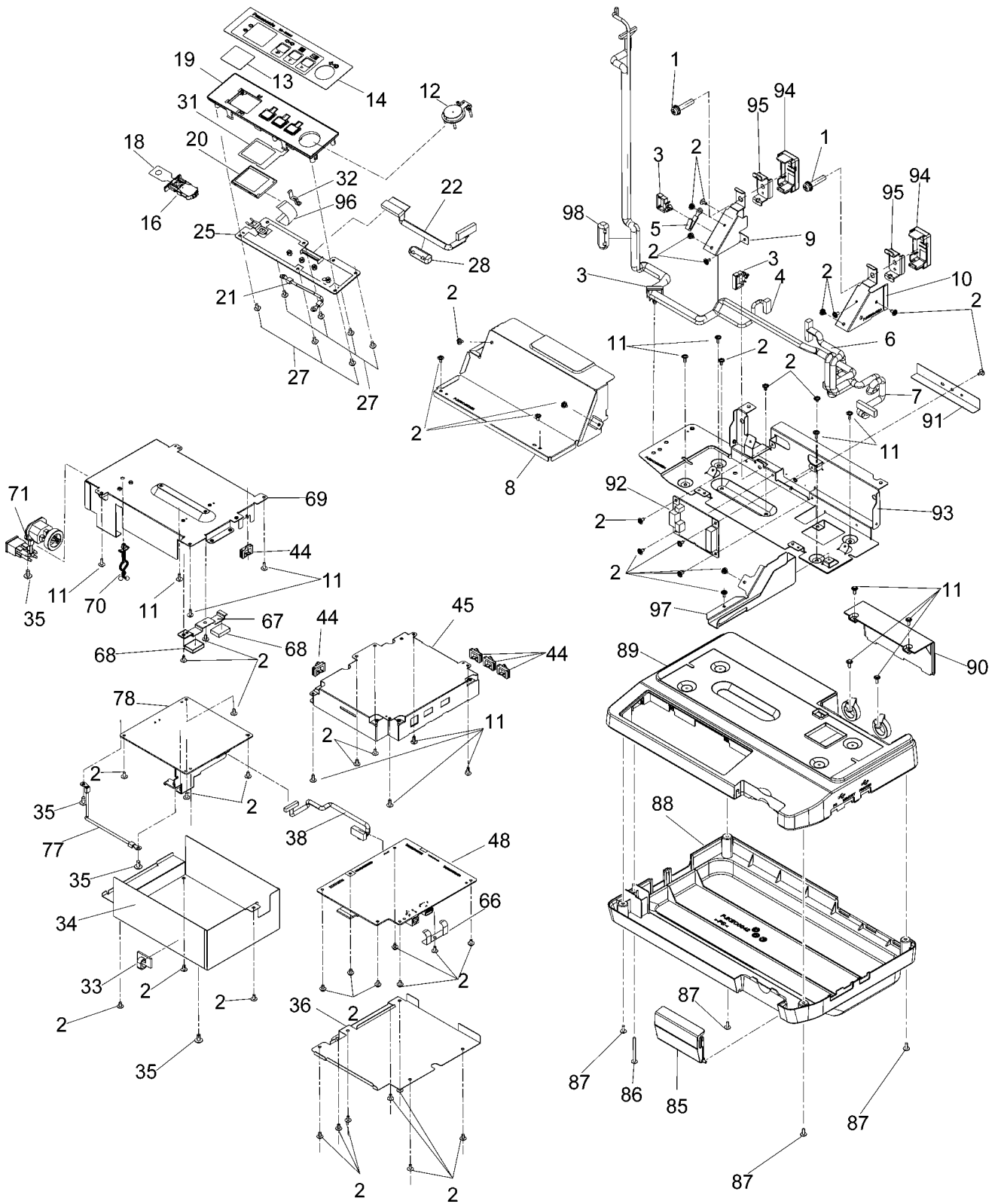
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XSB4+30FJ	Screw	
	2	XTW3+10PFJ	Screw	
	3	XTW4+16LFJ	Screw	
	4	XTW3+6LFJ	Screw	
	5	PJKMC0048Z	Cover Lower R	ISO:PS
	6	PJKPC0085Z	Cover Bracket R	ISO:ABS
	7	PJKPC0082Z	Cover Bracket Upper	ISO:ABS
	8	PJKPC0083Z	Cover Bracket Lower	ISO:ABS
	9	PJKPC0084Z	Cover Bracket L	ISO:ABS
	10	PJKMC0043Z	Cover L	ISO:PS
	11	PJKMC0049Z	Cover Upper Wide for UB-5838C Series	ISO:PS
	11	PJKMC0041Z	Cover Upper Std for UB-5338C Series	ISO:PS
	12	PJKMC0050Z	Cover Lower Wide for UB-5838C Series	ISO:PS
	12	PJKMC0042Z	Cover Lower Std for UB-5338C Series	ISO:PS
	13	PJKEC0083Z	Hinge Cover	ISO:PS
	15	PJKZC0124Z	Cover Lower Sheet L for UB-5838C Series	
	17	PJKZC0125Z	Cover Lower Sheet R for UB-5838C Series	
	18	PJKMC0047Z	Cover Lower L	ISO:PS
	19	PJMCC0152Z	Shield Cover Plate Lower Left	
	21	PJKMC0046Z	Cover Upper R	ISO:PS
	22	PJKMC0044Z	Cover R	ISO:PS
	23	PJKEC0084Z	Roller Unit Cover	ISO:PS
	24	PJKMC0045Z	Cover Upper L	ISO:PS
	25	PJHGC0067Z	Tray Seal	

13.3. Motor Drive Unit / Sensor Unit



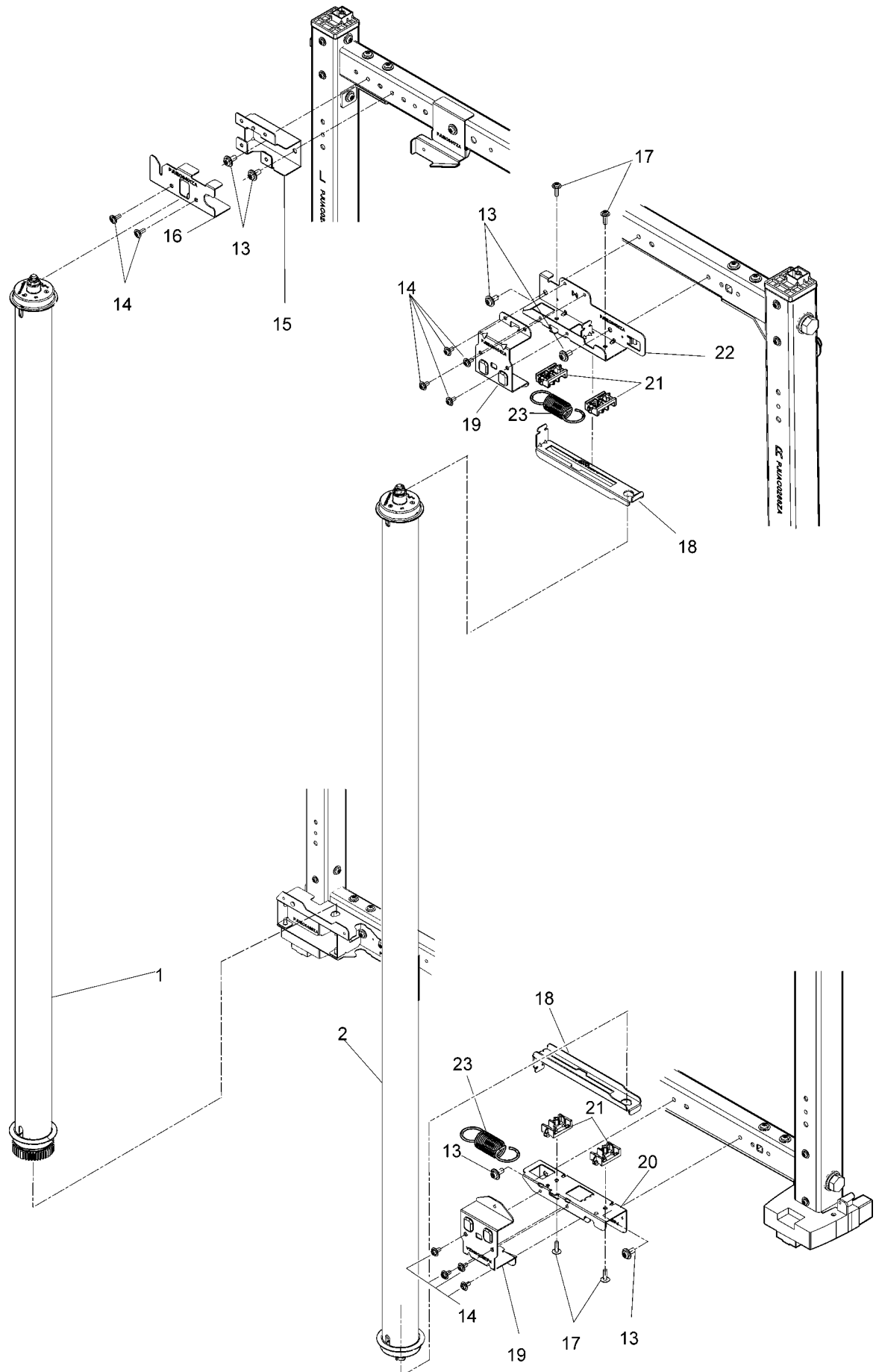
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XTW4+8LFJ	Screw	
	2	XTW3+6LFJ	Screw	
	3	PJUEC0409Z	Under Left Support Plate	
	4	PJUEC0408Z	Under Left Main Plate	
	5	PJUEC0414Z	Panel Holed Plate	
	6	PJHRC0464Z	Drive Silent	
	7	PJUEC0406Z	Top Drive Plate	
	10	PJDGC0247Z	Gear 17	
	11	PJDGC0246Z	Intermediate Roller Gear 44	
	12	L6HAYYYK0035	Stepping Motor for UB-5838C Series	
	12	L6HAYYYK0034	Stepping Motor for UB-5338C Series	
	13	PJDGC0249Z	Wide Gear55 for UB-5838C Series	
	13	PJDGC0248Z	Standard Gear60M05 for UB-5338C Series	
	14	PJZH0A7110J	Plate Ashy (Wide) for UB-5838C Series	
	14	PJZH0A7120J	Plate Ashy (Std) for UB-5338C Series	
	15	PJJRC3343Z	Motor Harness	
	16	PJJRC3344Z	Sensor Harness	
	17	PJHRC0465Z	Sensor Cover Resin	ISO:PS
	18	UAMS-07-0	Clip	ISO:PA66
	19	PJUEC0413Z	Sensor Holder Plate	
	20	PJWPOA7130J	Sensor Circuit Board	RTL
	23	PJHEC0236Z	Drive Rubber Cushion	
	24	PJNW4111Z	Polyslider	ISO:PA6

13.4. Control Box Unit



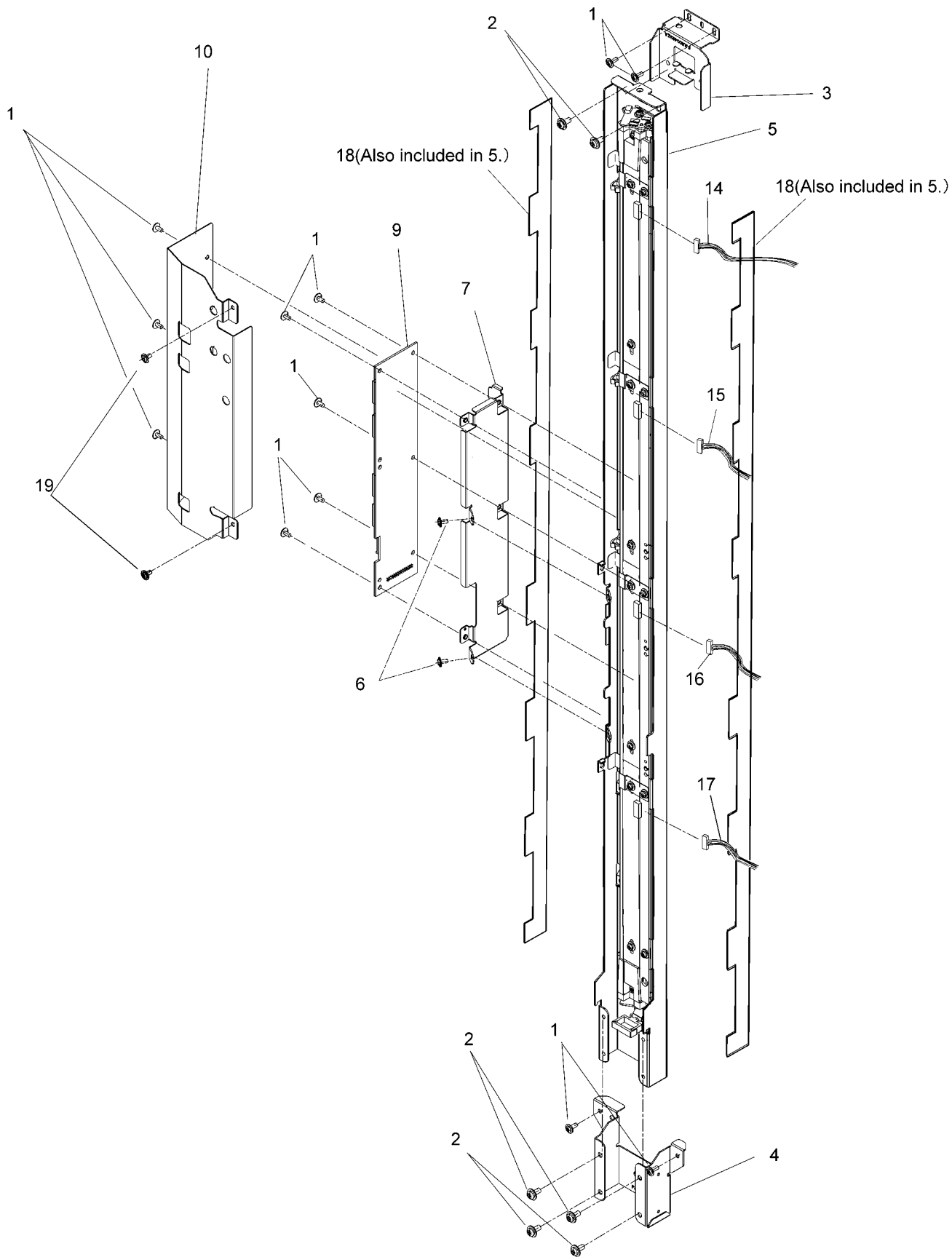
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XYN6+F30FJ	Screw	
	2	XTW3+6LFJ	Screw	
	3	LWS-3S	Clip	
	4	PJJRC3341Z	Scanner Relay Harness	
	5	CS-2-R	Clip	
	6	PJJRC3342Z	Controller Scanner Harness	
	7	PJJRC3340Z	Controller Relay Harness	
	8	PJMCC0153Z	Shield Cover Plate	
	9	PJUEC0410Z	Control Panel Support Stay L	
	10	PJUEC0411Z	Control Panel Support Stay R	
	11	XTW3+8PFJ	Screw	
	12	PJBCC0042Z-1	Start Stop Key	ISO:PS
	13	PJHEC0219Z	Lcd Protect Sheet	
	14	PJGPC0262Z	Sheet for UB-5838C/-C/-A/-G/-T/-U	
	14	PJGPC0264Z	Sheet for UB-5838C-CN	
	14	PJGPC0263Z	Sheet for UB-5338C/-C/-A/-G/-T/-U	
	14	PJGPC0265Z	Sheet for UB-5338C-CN	
	16	PJKEC0040Z-2	Battery Holder	ISO:PS
	18	PJHEC0140Z	Battery Film	ISO:PET
	19	PJGPC0230Z	Operation Panel	ISO:PS
	20	L5DYDYY00002	Lcd	
	21	PJJRC3025Y	Gnd Harness	
	22	PJJRC3346Z	Panel Harness	
	25	PJWP0A7100J	Panel Board	RTL
	27	XTW3+10PFJ	Screw	
	28	JOKF00000018	Core	
	31	PJMEC0117Z	Lcd Earth Sheet	
	32	PJBUC0099Z	Lcd Earth Plate	
	33	K-103G-R	Clamp	
	34	PJMEC0069Z	Power Box Cover	
	35	XYN4+F8FJ	Screw	
	36	PJMEC0071Z	Control Box Cover	
	38	PJJRC3018Y	Power Supply Harness	
	44	EDS-1208UV0	Saddle	ISO:PA66
	45	PJMEC0070Z	Control Box	
	48	PJWP0A710M	Control Board	RTL
	66	PJBUC0104Z	USB A Host Earth Plate	
	67	PJUEC0421Z	Adjust Plate	
	68	PJHXC0024Z	Radiation Sheet	
	69	PJMEC0068Z	Power Box	
	70	TMM6428-1	Cabl Clip	ISO:PA6
▲	71	PJJRC3026Y	Inlet Harness	
	77	PJJRC3027Y	Gnd Harness	
▲	78	PJWP0A711M	Power Board for UB-5838C/-C/-T/UB-5338C/-C/-T	Non-Repairable
▲	78	PJWP0A711U	Power Board for UB-5838C-A/-U/-G/-CN/UB-5338C-A/-U/-G/-CN	Non-Repairable
	85	PJKCC0011Z-2	SD Cover	
	86	XTW3+37PFJ	Screw	
	87	XTW3+10PFJ	Screw	
	88	PJKEC0042Z-2	Lower Panel	ISO:PS
	89	PJKEC0041Z-2	Upper Panel	ISO:PS
	90	PJKEC0043Z-2	Rear Cover	
	91	PJULC0103Z	Protection Plate	
	92	PJWP0A7120J	Motor drive Board	
	93	PJUAC0295Z	Control Panel Main Stay	
	94	PJHRC0466Z	Stabi Cover Resin	ISO:PS
	95	PJUEC0412Z	Counter Stabilizing Plate	
	96	PJEC3470Z	LCD Harness	
	97	PJUEC0427Z	CP Support plate	
	98	JOKG00000014	Core	

13.5. Screen Feed Roller Unit



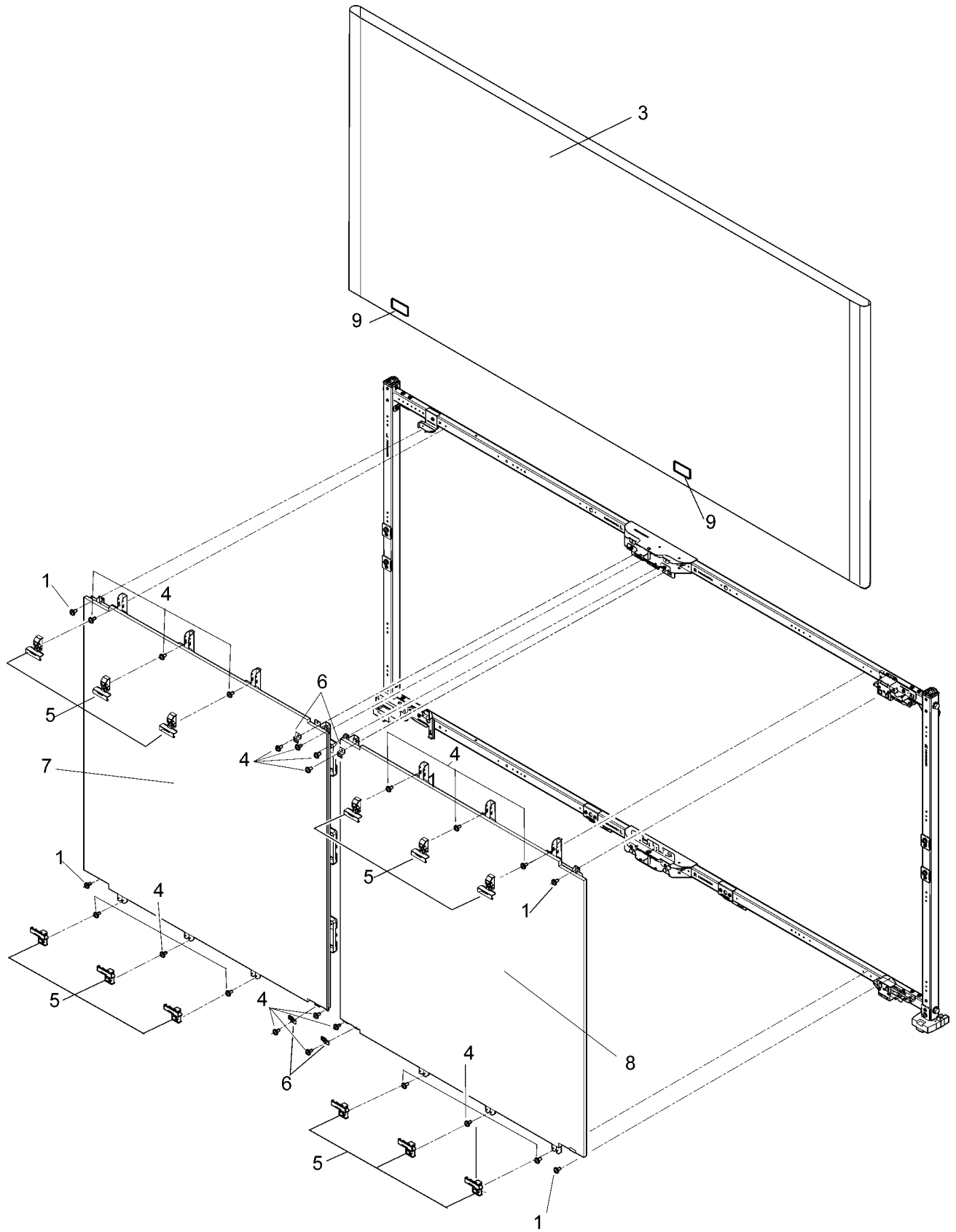
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	PJZR0A710M	Screen Roller L	
	2	PJZR0A711M	Screen Roller R	
	13	XTW4+8LFJ	Screw	
	14	XTW3+6LFJ	Screw	
	15	PJUEC0400Z	Top Left main plate	
	16	PJUEC0401Z	Top Left Bearing keep plate	
	17	XTW3+10PFJ	Screw	
	18	PJUEC0405Z	Slide Plate	
	19	PJUEC0404Z	Base Plate Support	
	20	PJUEC0403Z	Under Right Base Plate	
	21	PJHRC0463Z	Slide Plate Holder	
	22	PJUEC0402Z	Top Right Base Plate	
	23	PJBVC0195Z	Roller Sliding Spring	

13.6. Scanner Unit



Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XTW3+6LFJ	Screw	
	2	XTW4+8LFJ	Screw	
	3	PJUIC0429Z	top bracket	
	4	PJUIC0430Z	CIS under bracket	
	5	PJWU0A7100J	Scanner sub Ashy	
	6	RTP3+8(3)B	Screw	
	7	PJMCC0151Z	CIS PCB holed plate	
	9	PJWP0A7140J	Scanner Board	
	10	PJMCC0150Z	CIS PCB cover plate	
	14	PJJRC3020Y	CIS Harness 1	
	15	PJJRC3021Y	CIS Harness 2	
	16	PJJRC3022Y	CIS Harness 3	
	17	PJJRC3347Z	CIS Harness 4	
	18	PJMZC0009Z	Shading Cloth	
	19	XYC3+FJ10F	Screw	

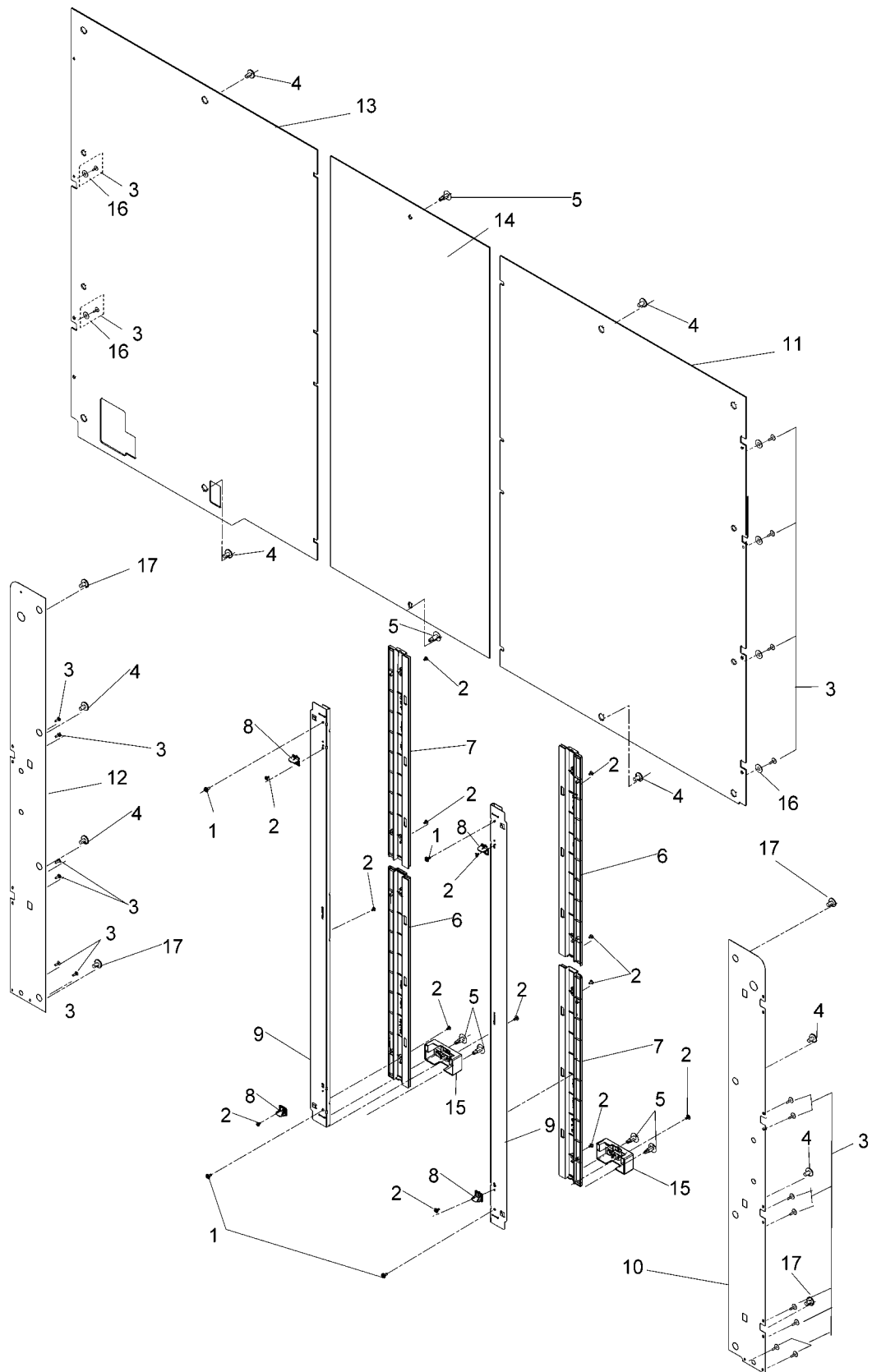
13.7. Panel Unit



Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XTW3+6LFJ	Screw	
	3	PJZE0A7100J	Screen Film WIDE for UB-5838C Series	
	3	PJZE0A7110J	Screen Film STD for UB-5338C Series	
	4	XTW4+8LFJ	Screw	
	5	PJHRC0458Z	Inner Panel Holder 1	
	6	PJUEC0399Z	Inner Panel Holder 2	
	7	PJZH0A7130J	Inner Panel L WIDE for UB-5838C Series	
	7	PJZH0A7150J	Inner Panel L STD for UB-5338C Series	
	8	PJZH0A7140J	Inner Panel R WIDE for UB-5838C Series	
	8	PJZH0A7160J	Inner Panel R STD for UB-5338C Series	
	9	PJHSC0094Z	Home Marker	

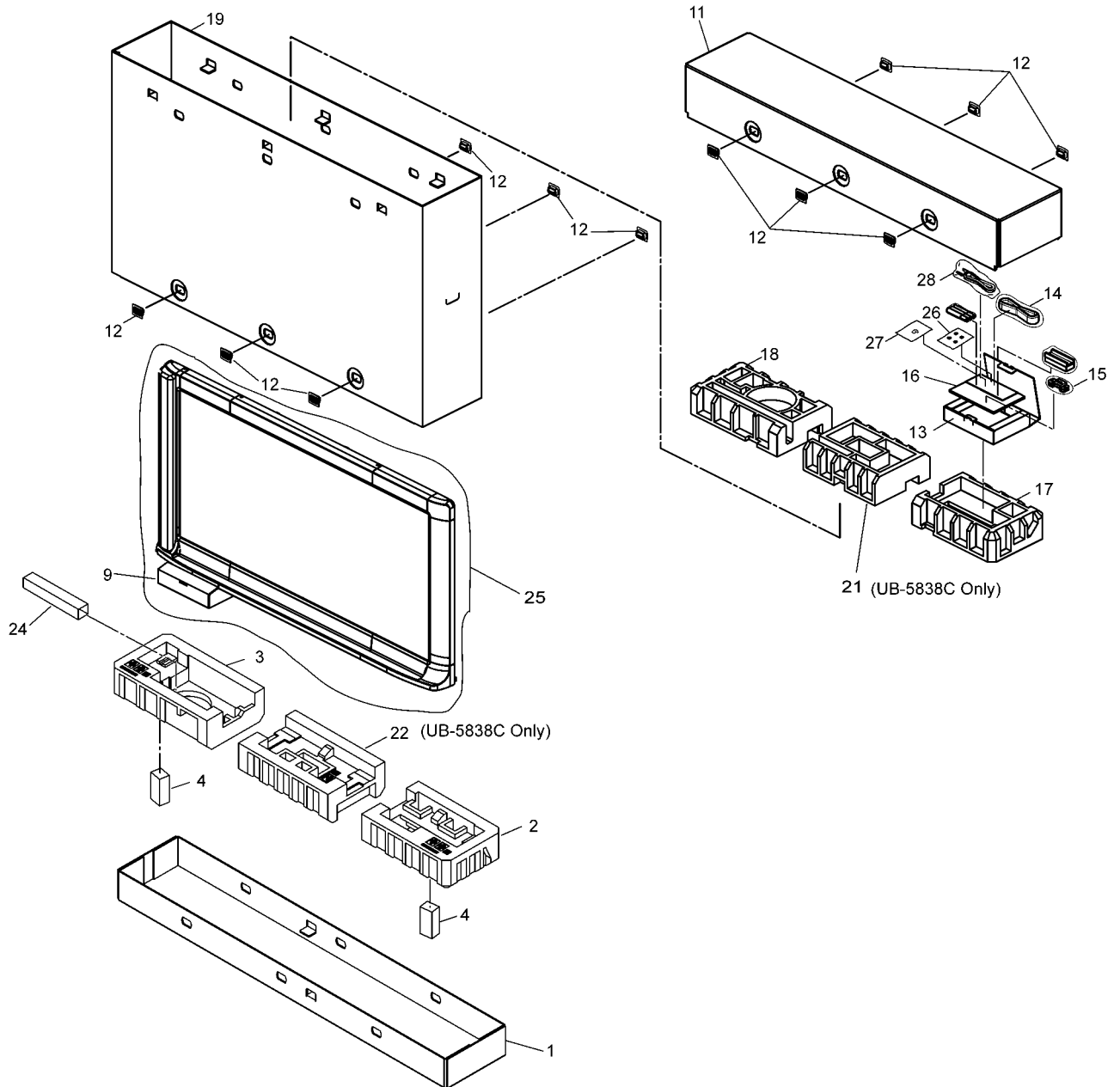
Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XTW4+8LFJ	Screw	
	4	PJDJC0100Z	Panel Hinge Sleeve	
	5	PJUGC0089Z	Shaft	
	10	PJBHC0007Z	Panel hinge 2	
	11	PJBHC0006Z	Panel hinge 1	
	13	PJUEC0395Z	Wall Mount Under Plate	
	14	PJUEC0417Z	Panel Holed Plate Upper	
	15	XVG8BF50FJ	Bolt	
	16	XSB4+30FJ	Screw	
	17	PJUEC0391Z	Joint Support Plate	
	18	PJUEC0392Z	Hinge Plate	
	19	PJUAC0296Y	Horizontal Pipe L WIDE for UB-5838C Series	
	19	PJUAC0289Y	Horizontal Pipe L STD for UB-5338C Series	
	20	PJHRC0455Z	Joint Holder	
	21	PJUCC0018Z	Joint Plate	
	23	PJZH0A7100J	Hinge L Ashy	
	24	XYN6+F12FJ	Screw	
	25	XYN6+F30FJ	Screw	
	26	XNG6EFJ	Nut	
	27	XTW3+10PFJ	Screw	
	28	PJKJC0002Z	Wall Mount Hook	
	29	PJUAC0287Y	Vertical Pipe L	
	30	PJHRC0456Z	Ring Holder TOP	
	31	PJUEC0390Z	Joint Support Plate 1	
	33	PJUEC0393Z	Support Ring	
	34	PJUEC0426Z	Nut Hold Plate	
	35	PJNEC0018Z	Stand Nut	
	36	PJHRC0457Z	Ring Holder Under	
	37	PJUAC0288Y	Vertical Pipe R	
	38	PJBHC0005Z	Hinge R	
	39	PJUAC0297Y	Horizontal Pipe R WIDE for UB-5838C Series	
	39	PJUAC0290Y	Horizontal Pipe R STD for UB-5338C	
	40	XUC4FJ	E Ring	

13.9. Rear Cover Unit



Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	XTW4+8LFJ	Screw	
	2	XTW3+6LFJ	Screw	
	3	XTW3+10PFJ	Screw	
	4	38S2	Push Turn Rivet	
	5	45J3	Push Turn Rivet	
	6	PJKEC0082Z	Rear Cover Holder 2	ISO:PS
	7	PJKEC0081Z	Rear Cover Holder 1	ISO:PS
	8	PJHRC0459Y	Screen Film Guide	
	9	PJUAC0291Z	Vertical Sub Frame	
	10	PJKZC0112Y	Rear Side Cover R	ISO:PP
	11	PJKZC0118Y	Rear Cover R WIDE for UB-5838C Series	
	11	PJKZC0109Y	Rear Cover R STD for UB-5338C Series	
	12	PJKZC0111Y	Rear Side Cover L	ISO:PP
	13	PJKZC0117Y	Rear Cover L WIDE for UB-5838C Series	
	13	PJKZC0108Y	Rear Cover L STD for UB-5338C Series	
	14	PJKZC0110Y	Rear Cover Center	
	15	PJKEC0080Z	Wall Mount Under Cover	ISO:ABS
	16	XWG3F13FJ	Washer	
	17	13R7	Anchor Clip	ISO:POM

13.10. Packing



Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	1	PJPGC1187Z	Bottom Carton for UB-5838C Series	
	1	PJPGC1068Z	Bottom Carton for UB-5338C Series	
	2	PJPNC0269Z	Bottom Cushion R	ISO:EPS
	3	PJPNC0268Z	Bottom Cushion L	ISO:EPS
	4	PJPEC0160Z	EPS Pad	
	9	PJPEC0162Z	Control Box Pad	
	11	PJPGC1188Z	Top Carton (WIDE) for UB-5838C Series	
	11	PJPGC1184Z	Top Carton (STD) for UB-5338C Series	
	12	HP-601W2-S	Joint	
	13	PJPCC0021Z	Accessory Box	
▲	14	K2CG3YY00043	AC Power Cord for UB-5838C/ UB-5338C	
▲	14	K2CK3GH00005	AC Power Cord for UB-5838C-A/ UB-5338C-A	
▲	14	PJWAOA710C	AC Power Cord Assembly for UB-5838C-C/ UB-5338C-C	
▲	14	K2CM3GH00004	AC Power Cord for UB-5838C-G/ UB-5338C-G	
▲	14	K2CG3GH00009	AC Power Cord for UB-5838C-T/ UB-5338C-T	
▲	14	K2CT3GH00003	AC Power Cord for UB-5838C-U/ UB-5338C-U	
▲	14	K2CK3GH00006	AC Power Cord for UB-5838C-CN/ UB-5338C-CN	
	15	PJKJC0003Z	Wall Mount Plate	
	16	PJQXC0259Z	Operating Instructions (English) for UB-5838C/-C/-A/-G/-T/-U/ UB-5338C/-C/-A/-G/-T/-U	
	16	PJQXC0271Z	Operating Instrucrions (French/Spanish/Traditional-Chinese) for UB-5838C-C/-G/-T/-U/ UB-5338C-C/-G/-T/-U	
	16	PJQXC0272Z	Operating Instrucrions (German/Italian/Russian/Dutch/Swedish) for UB-5838C-G/ UB-5338C-G	
	16	PJQXC0298Z	Operating Instructions (Chinese) for UB-5838C-CN/ UB-5338C-CN	
	17	PJPNC0267Z	Top Cushion R	ISO:EPS
	18	PJPNC0266Z	Top Cushion L	ISO:EPS
	19	PJPGC1186Z	Outer Carton for UB-5838C Series (except for China)	
	19	PJPGC1190Z	Outer Carton for UB-5838C-CN	
	19	PJPGC1183Z	Outer Carton for UB-5338C Series (except for China)	
	19	PJPGC1185Z	Outer Carton for UB-5338C-CN	
	21	PJPNC0273Z	Top Cushion C for UB-5838C Series	ISO:EPS
	22	PJPNC0274Z	Bottom Cushion C for UB-5838C Series	ISO:EPS
	24	PJPEC0169Z	Spacer Pad	
	25	PJPFC0094Z	Pe Bag for UB-5338C Series	ISO:PE-LD
	25	PJPFC0109Z	Pe Bag for UB-5838C Series	ISO:PE-LD
	26	XWG6M22FJ	Washer	
	27	CKN-16	Ckn Clamp	
	28	KLHY04YY0002	USB Cable	

13.11. CONTROL Board

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R1	ERJ3GEYJ103	10K / (1/10W)	
	R3	ERJ3GEYJ103	10K / (1/10W)	
	R4	ERJ3GEYJ103	10K / (1/10W)	
	R5	ERJ3GEYJ560	56 / (1/10W)	
	R6	ERJ3GEYJ560	56 / (1/10W)	
	R7	ERJ3GEYJ560	56 / (1/10W)	
	R8	ERJ3GEYJ560	56 / (1/10W)	
	R9	ERJ3GEYJ560	56 / (1/10W)	
	R10	ERJ3GEYJ560	56 / (1/10W)	
	R11	ERJ3GEYJ560	56 / (1/10W)	
	R12	ERJ3GEYJ560	56 / (1/10W)	
	R13	ERJ3GEYJ103	10K / (1/10W)	
	R14	ERJ3GEYJ330	33 / (1/10W)	
	R15	ERJ3GEYJ103	10K / (1/10W)	
	R16	ERJ3GEYJ103	10K / (1/10W)	
	R17	ERJ3GEYJ103	10K / (1/10W)	
	R18	ERJ3GEYJ103	10K / (1/10W)	
	R19	ERJ3GEYJ103	10K / (1/10W)	
	R20	ERJ3GEYJ103	10K / (1/10W)	
	R21	ERJ3GEYJ103	10K / (1/10W)	
	R22	ERJ3GEYJ103	10K / (1/10W)	
	R23	ERJ3GEYJ103	10K / (1/10W)	
	R24	ERJ3GEYJ103	10K / (1/10W)	
	R25	ERJ3GEYJ103	10K / (1/10W)	
	R26	ERJ3GEYJ103	10K / (1/10W)	
	R27	ERJ3GEYJ103	10K / (1/10W)	
	R28	ERJ3GEYJ103	10K / (1/10W)	
	R29	ERJ3GEYJ103	10K / (1/10W)	
	R30	ERJ3GEYJ103	10K / (1/10W)	
	R31	ERJ3GEYJ103	10K / (1/10W)	
	R33	ERJ3GEYJ103	10K / (1/10W)	
	R34	ERJ3GEYJ103	10K / (1/10W)	
	R35	ERJ3GEYJ103	10K / (1/10W)	
	R36	ERJ3GEYJ103	10K / (1/10W)	
	R38	ERJ3GEYJ103	10K / (1/10W)	
	R40	ERJ3GEYJ220	22 / (1/10W)	
	R41	ERJ3GEYJ220	22 / (1/10W)	
	R42	ERJ3GEYJ220	22 / (1/10W)	
	R43	ERJ3GEYJ220	22 / (1/10W)	
	R44	ERJ3GEYJ220	22 / (1/10W)	
	R45	ERJ3GEYJ220	22 / (1/10W)	
	R46	ERJ3GEYJ220	22 / (1/10W)	
	R47	ERJ3GEYJ220	22 / (1/10W)	
	R48	ERJ3GEYJ220	22 / (1/10W)	
	R49	ERJ3GEYJ220	22 / (1/10W)	
	R50	ERJ3GEYJ220	22 / (1/10W)	
	R51	ERJ3GEYJ220	22 / (1/10W)	
	R52	ERJ3GEYJ220	22 / (1/10W)	
	R53	ERJ3GEYJ220	22 / (1/10W)	
	R54	ERJ3GEYJ220	22 / (1/10W)	
	R55	ERJ3GEYJ220	22 / (1/10W)	
	R56	ERJ3GEYJ220	22 / (1/10W)	
	R57	ERJ3GEYJ220	22 / (1/10W)	
	R58	ERJ3GEYJ220	22 / (1/10W)	
	R59	ERJ3GEYJ330	33 / (1/10W)	
	R60	ERJ3GEYJ330	33 / (1/10W)	
	R61	ERJ3GEYJ330	33 / (1/10W)	
	R62	ERJ3GEYJ330	33 / (1/10W)	
	R63	ERJ3GEYJ330	33 / (1/10W)	
	R64	ERJ3GEYJ330	33 / (1/10W)	
	R65	ERJ3GEYJ330	33 / (1/10W)	
	R66	ERJ3GEYJ330	33 / (1/10W)	
	R67	ERJ3GEYJ330	33 / (1/10W)	
	R68	ERJ3GEYJ330	33 / (1/10W)	
	R69	ERJ3GEYJ330	33 / (1/10W)	
	R70	ERJ3GEYJ330	33 / (1/10W)	
	R71	ERJ3GEYJ330	33 / (1/10W)	
	R72	ERJ3GEYJ330	33 / (1/10W)	
	R73	ERJ3GEYJ330	33 / (1/10W)	
	R74	ERJ3GEYJ330	33 / (1/10W)	
	R75	ERJ3GEYJ330	33 / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R76	ERJ3GEYJ103	10K / (1/10W)	
	R77	ERJ3GEYJ103	10K / (1/10W)	
	R78	ERJ3GEYJ103	10K / (1/10W)	
	R79	ERJ3GEYJ103	10K / (1/10W)	
	R80	ERJ3GEYJ103	10K / (1/10W)	
	R81	ERJ3GEYJ103	10K / (1/10W)	
	R82	ERJ3GEYJ103	10K / (1/10W)	
	R83	ERJ3GEYJ103	10K / (1/10W)	
	R84	ERJ3GEYJ103	10K / (1/10W)	
	R85	ERJ3GEYJ103	10K / (1/10W)	
	R86	ERJ3GEYJ103	10K / (1/10W)	
	R87	ERJ3GEYJ103	10K / (1/10W)	
	R88	ERJ3GEYJ103	10K / (1/10W)	
	R89	ERJ3GEYJ103	10K / (1/10W)	
	R90	ERJ3GEYJ103	10K / (1/10W)	
	R91	ERJ3GEYJ103	10K / (1/10W)	
	R92	ERJ3GEYJ103	10K / (1/10W)	
	R93	ERJ3GEYJ330	33 / (1/10W)	
	R94	ERJ3GEYJ330	33 / (1/10W)	
	R95	ERJ3GEYJ330	33 / (1/10W)	
	R96	ERJ3GEYJ330	33 / (1/10W)	
	R97	ERJ3GEYJ330	33 / (1/10W)	
	R98	ERJ3GEYJ330	33 / (1/10W)	
	R99	ERJ3GEYJ330	33 / (1/10W)	
	R100	ERJ3GEYJ330	33 / (1/10W)	
	R101	ERJ3GEYJ330	33 / (1/10W)	
	R102	ERJ3GEYJ330	33 / (1/10W)	
	R103	ERJ3GEYJ330	33 / (1/10W)	
	R104	ERJ3GEYJ330	33 / (1/10W)	
	R105	ERJ3GEYJ330	33 / (1/10W)	
	R106	ERJ3GEYJ330	33 / (1/10W)	
	R107	ERJ3GEYJ330	33 / (1/10W)	
	R108	ERJ3GEYJ330	33 / (1/10W)	
	R109	ERJ3GEYJ103	10K / (1/10W)	
	R110	ERJ3GEYJ220	22 / (1/10W)	
	R111	ERJ3GEYJ220	22 / (1/10W)	
	R112	ERJ3GEYJ220	22 / (1/10W)	
	R113	ERJ3GEYJ330	33 / (1/10W)	
	R114	ERJ3GEYJ330	33 / (1/10W)	
	R115	ERJ3GEYJ330	33 / (1/10W)	
	R116	ERJ3GEYJ330	33 / (1/10W)	
	R117	ERJ3GEYJ330	33 / (1/10W)	
	R118	ERJ3GEYJ330	33 / (1/10W)	
	R119	ERJ3GEYJ330	33 / (1/10W)	
	R120	ERJ3GEYJ330	33 / (1/10W)	
	R121	ERJ3GEYJ103	10K / (1/10W)	
	R122	ERJ3GEYJ103	10K / (1/10W)	
	R123	ERJ3GEYJ330	33 / (1/10W)	
	R124	ERJ3GEYJ330	33 / (1/10W)	
	R125	ERJ3GEYJ330	33 / (1/10W)	
	R126	ERJ3GEYJ330	33 / (1/10W)	
	R127	ERJ3GEYJ330	33 / (1/10W)	
	R128	ERJ3GEYJ103	10K / (1/10W)	
	R129	ERJ3GEYJ103	10K / (1/10W)	
	R130	ERJ3GEYJ103	10K / (1/10W)	
	R131	ERJ3GEYJ103	10K / (1/10W)	
	R132	ERJ3GEYJ103	10K / (1/10W)	
	R133	ERJ3GEYJ103	10K / (1/10W)	
	R134	ERJ3GEYJ560	56 / (1/10W)	
	R135	ERJ3GEYJ560	56 / (1/10W)	
	R136	ERJ3GEYJ560	56 / (1/10W)	
	R137	ERJ3GEYJ560	56 / (1/10W)	
	R138	ERJ3GEYJ560	56 / (1/10W)	
	R139	ERJ3GEYJ560	56 / (1/10W)	
	R140	ERJ3GEYJ560	56 / (1/10W)	
	R141	ERJ3GEYJ560	56 / (1/10W)	
	R142	ERJ3GEYJ103	10K / (1/10W)	
	R143	ERJ3GEYJ103	10K / (1/10W)	
	R144	ERJ3GEYJ103	10K / (1/10W)	
	R145	ERJ3GEYJ103	10K / (1/10W)	
	R146	ERJ3GEYJ103	10K / (1/10W)	
	R147	ERJ3GEYJ103	10K / (1/10W)	
	R148	ERJ3GEYJ103	10K / (1/10W)	
	R149	ERJ3GEYJ220	22 / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R151	ERJ3GEYJ103	10K / (1/10W)	
	R153	ERJ3GEYJ330	33 / (1/10W)	
	R154	ERJ3GEYJ330	33 / (1/10W)	
	R155	ERJ3GEYJ330	33 / (1/10W)	
	R156	ERJ3GEYJ330	33 / (1/10W)	
	R157	ERJ3GEYJ330	33 / (1/10W)	
	R158	ERJ3GEYJ330	33 / (1/10W)	
	R159	ERJ3GEYJ330	33 / (1/10W)	
	R160	ERJ3GEYJ330	33 / (1/10W)	
	R161	ERJ3GEYJ330	33 / (1/10W)	
	R162	ERJ3GEYJ330	33 / (1/10W)	
	R163	ERJ3GEYJ330	33 / (1/10W)	
	R164	ERJ3GEYJ330	33 / (1/10W)	
	R165	ERJ3GEYJ330	33 / (1/10W)	
	R166	ERJ3GEYJ330	33 / (1/10W)	
	R167	ERJ3GEYJ330	33 / (1/10W)	
	R168	ERJ3GEYJ330	33 / (1/10W)	
	R169	ERJ3GEYJ330	33 / (1/10W)	
	R170	ERJ3EKF1501	1.5K / (1/16W)	
	R171	ERJ3GEYJ103	10K / (1/10W)	
	R172	ERJ3GEYJ103	10K / (1/10W)	
	R173	ERJ3GEYJ220	22 / (1/10W)	
	R174	ERJ3GEYJ103	10K / (1/10W)	
	R175	ERJ3EKF3091	30.9K / (1/16W)	
	R176	ERJ3GEYJ103	10K / (1/10W)	
	R177	ERJ3GEYJ103	10K / (1/10W)	
	R178	ERJ3GEYJ103	10K / (1/10W)	
	R179	ERJ3GEYJ103	10K / (1/10W)	
	R180	ERJ3GEYJ103	10K / (1/10W)	
	R181	ERJ3GEYJ103	10K / (1/10W)	
	R182	ERJ3GEYJ103	10K / (1/10W)	
	R183	ERJ3GEYJ103	10K / (1/10W)	
	R184	ERJ3GEYJ103	10K / (1/10W)	
	R188	ERJ3GEYJ103	10K / (1/10W)	
	R192	ERJ3GEYJ103	10K / (1/10W)	
	R193	ERJ3GEYJ103	10K / (1/10W)	
	R194	ERJ3GEYJ103	10K / (1/10W)	
	R195	ERJ3GEYJ103	10K / (1/10W)	
	R196	ERJ3GEYJ103	10K / (1/10W)	
	R197	ERJ3GEYJ103	10K / (1/10W)	
	R198	ERJ3GEYJ103	10K / (1/10W)	
	R199	ERJ3GEYJ103	10K / (1/10W)	
	R200	ERJ3GEYJ472	4.7K / (1/10W)	
	R201	ERJ3GEYJ102	1K / (1/10W)	
	R202	ERJ3GEYJ103	10K / (1/10W)	
	R203	ERJ3GEYJ472	4.7K / (1/10W)	
	R204	ERJ3GEYJ103	10K / (1/10W)	
	R205	ERJ3GEYJ472	4.7K / (1/10W)	
	R206	ERJ3GEYJ103	10K / (1/10W)	
	R207	ERJ3GEYJ103	10K / (1/10W)	
	R209	ERJ3GEYJ104	100K / (1/10W)	
	R210	ERJ3GEYJ103	10K / (1/10W)	
	R211	ERJ3GEYJ103	10K / (1/10W)	
	R212	ERJ3GEYJ103	10K / (1/10W)	
	R213	ERJ3GEYJ103	10K / (1/10W)	
	R214	ERJ3GEYJ103	10K / (1/10W)	
	R215	ERJ3GEYJ103	10K / (1/10W)	
	R216	ERJ3GEYJ103	10K / (1/10W)	
	R217	ERJ3GEYJ103	10K / (1/10W)	
	R218	ERJ3GEYJ103	10K / (1/10W)	
	R219	ERJ3GEYJ473	47K / (1/10W)	
	R220	ERJ3GEYJ103	10K / (1/10W)	
	R221	ERJ3GEYJ103	10K / (1/10W)	
	R222	ERJ3GEYJ473	47K / (1/10W)	
	R223	ERJ3GEYJ103	10K / (1/10W)	
	R224	ERJ3GEYJ103	10K / (1/10W)	
	R225	ERJ3GEYJ473	47K / (1/10W)	
	R226	ERJ3GEYJ103	10K / (1/10W)	
	R227	ERJ3GEYJ103	10K / (1/10W)	
	R229	ERJ3GEYJ103	10K / (1/10W)	
	R230	ERJ3GEYJ103	10K / (1/10W)	
	R232	ERJ3GEYJ473	47K / (1/10W)	
	R233	ERJ3GEYJ103	10K / (1/10W)	
	R234	ERJ3GEYJ103	10K / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R235	ERJ3GEYJ103	10K / (1/10W)	
	R237	ERJ3GEYJ473	47K / (1/10W)	
	R238	ERJ3GEYJ103	10K / (1/10W)	
	R239	ERJ3GEYJ103	10K / (1/10W)	
	R240	ERJ3GEYJ103	10K / (1/10W)	
	R241	ERJ3GEYJ103	10K / (1/10W)	
	R242	ERJ3GEYJ103	10K / (1/10W)	
	R243	ERJ3GEYJ103	10K / (1/10W)	
	R244	ERJ3GEYJ103	10K / (1/10W)	
	R245	ERJ3GEYJ330	33 / (1/10W)	
	R247	ERJ3GEYJ103	10K / (1/10W)	
	R248	ERJ3GEYJ330	33 / (1/10W)	
	R249	ERJ3GEYJ330	33 / (1/10W)	
	R250	ERJ3GEYJ103	10K / (1/10W)	
	R251	ERJ3GEYJ103	10K / (1/10W)	
	R252	ERJ3GEYJ103	10K / (1/10W)	
	R253	ERJ3GEYJ103	10K / (1/10W)	
	R254	ERJ3GEYJ103	10K / (1/10W)	
	R255	ERJ3GEYJ103	10K / (1/10W)	
	R256	ERJ3GEYJ103	10K / (1/10W)	
	R257	ERJ3GEYJ103	10K / (1/10W)	
	R259	ERJ3GEYJ103	10K / (1/10W)	
	R260	ERJ6GEY0R00	0-ohm Jumper	
	R261	ERJ6GEY0R00	0-ohm Jumper	
	R262	ERJ6GEY0R00	0-ohm Jumper	
	R263	ERJ3GEYJ330	33 / (1/10W)	
	R264	ERJ3GEYJ330	33 / (1/10W)	
	R265	ERJ3GEYJ330	33 / (1/10W)	
	R266	ERJ3GEYJ330	33 / (1/10W)	
	R267	ERJ3GEYJ330	33 / (1/10W)	
	R268	ERJ3GEYJ330	33 / (1/10W)	
	R269	ERJ3GEYJ330	33 / (1/10W)	
	R270	ERJ3GEYJ330	33 / (1/10W)	
	R271	ERJ3GEYJ330	33 / (1/10W)	
	R272	ERJ3GEYJ473	47K / (1/10W)	
	R273	ERJ3GEYJ473	47K / (1/10W)	
	R274	ERJ3GEYJ470	47 / (1/10W)	
	R275	ERJ3GEYJ470	47 / (1/10W)	
	R276	ERJ3GEYJ470	47 / (1/10W)	
	R277	ERJ3GEYJ470	47 / (1/10W)	
	R278	ERJ3GEYJ470	47 / (1/10W)	
	R279	ERJ3GEYJ101	100 / (1/10W)	
	R280	ERJ3GEYJ101	100 / (1/10W)	
	R281	ERJ3GEYJ103	10K / (1/10W)	
	R282	ERJ3GEYJ472	4.7K / (1/10W)	
	R283	ERJ3GEYJ470	47 / (1/10W)	
	R284	ERJ3GEYJ470	47 / (1/10W)	
	R285	ERJ3GEYJ470	47 / (1/10W)	
	R286	ERJ3GEYJ470	47 / (1/10W)	
	R287	ERJ3GEYJ470	47 / (1/10W)	
	R288	ERJ3GEYJ470	47 / (1/10W)	
	R289	ERJ3GEYJ103	10K / (1/10W)	
	R290	ERJ3GEYJ103	10K / (1/10W)	
	R291	ERJ3GEYJ304	300K / (1/10W)	
	R292	ERJ3GEYJ472	4.7K / (1/10W)	
	R295	ERJ3GEYJ304	300K / (1/10W)	
	R296	ERJ3GEYJ304	300K / (1/10W)	
	R297	ERJ3GEYJ304	300K / (1/10W)	
	R298	ERJ3GEYJ472	4.7K / (1/10W)	
	R299	ERJ3GEYJ101	100 / (1/10W)	
	R300	ERJ3GEYJ101	100 / (1/10W)	
	R301	ERJ3GEYJ101	100 / (1/10W)	
	R302	ERJ3GEYJ101	100 / (1/10W)	
	R303	ERJ3GEYJ472	4.7K / (1/10W)	
	R304	ERJ3GEYJ470	47 / (1/10W)	
	R305	ERJ3GEYJ470	47 / (1/10W)	
	R306	ERJ3GEYJ470	47 / (1/10W)	
	R307	ERJ3GEYJ470	47 / (1/10W)	
	R308	ERJ3GEYJ304	300K / (1/10W)	
	R309	ERJ3GEYJ304	300K / (1/10W)	
	R310	ERJ3GEYJ304	300K / (1/10W)	
	R311	ERJ3GEYJ304	300K / (1/10W)	
	R312	ERJ3GEYJ470	47 / (1/10W)	
	R313	ERJ3GEYJ470	47 / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R314	ERJ3GEYJ470	47 / (1/10W)	
	R315	ERJ3GEYJ470	47 / (1/10W)	
	R316	ERJ3GEYJ304	300K / (1/10W)	
	R317	ERJ3GEYJ304	300K / (1/10W)	
	R318	ERJ3GEYJ304	300K / (1/10W)	
	R319	ERJ3GEYJ304	300K / (1/10W)	
	R320	ERJ3GEYJ101	100 / (1/10W)	
	R321	ERJ3GEYJ101	100 / (1/10W)	
	R322	ERJ3GEYJ101	100 / (1/10W)	
	R323	ERJ3GEYJ101	100 / (1/10W)	
	R324	ERJ3GEYJ304	300K / (1/10W)	
	R325	ERJ3GEYJ304	300K / (1/10W)	
	R326	ERJ3GEYJ304	300K / (1/10W)	
	R327	ERJ3GEYJ304	300K / (1/10W)	
	R328	ERJ3GEYJ470	47 / (1/10W)	
	R329	ERJ3GEYJ470	47 / (1/10W)	
	R330	ERJ3GEYJ470	47 / (1/10W)	
	R331	ERJ3GEYJ470	47 / (1/10W)	
	R332	ERJ6GEY0R00	0-ohm Jumper	
	R333	ERJ6GEY0R00	0-ohm Jumper	
	R334	ERJ6GEY0R00	0-ohm Jumper	
	R335	ERJ6GEY0R00	0-ohm Jumper	
	R336	ERJ6GEY0R00	0-ohm Jumper	
	R337	ERJ6GEY0R00	0-ohm Jumper	
	R338	ERJ6GEY0R00	0-ohm Jumper	
	R339	ERJ6GEY0R00	0-ohm Jumper	
	R346	ERJ3GEYJ103	10K / (1/10W)	
	R347	ERJ3GEYJ103	10K / (1/10W)	
	R348	ERJ3GEYJ153	15K / (1/10W)	
	R349	ERJ3GEYJ153	15K / (1/10W)	
	R350	ERJ3GEYJ153	15K / (1/10W)	
	R351	ERJ3GEYJ153	15K / (1/10W)	
	R352	ERJ3GEYJ473	47K / (1/10W)	
	R353	ERJ3EKF18R2	18.2 / (1/16W)	
	R354	ERJ3EKF18R2	18.2 / (1/16W)	
	R355	ERJ3EKF18R2	18.2 / (1/16W)	
	R356	ERJ3EKF18R2	18.2 / (1/16W)	
	R357	ERJ3GEYJ473	47K / (1/10W)	
	R358	ERJ3GEYJ103	10K / (1/10W)	
	R359	ERJ3EKF27R0	27 / (1/16W)	
	R360	ERJ3EKF27R0	27 / (1/16W)	
	R361	ERJ3GEYJ152	1.5k / (1/10W)	
	R362	ERJ3GEYJ103	10K / (1/10W)	
	R364	ERJ3GEYJ470	47 / (1/10W)	
	R365	ERJ3GEYJ470	47 / (1/10W)	
	R367	ERJ3GEYJ330	33 / (1/10W)	
	R368	ERJ3GEYJ103	10K / (1/10W)	
	R369	ERJ3GEYJ330	33 / (1/10W)	
	R370	ERJ3GEYJ103	10K / (1/10W)	
	R371	ERJ3GEY0R00	0-ohm Jumper	
	R372	ERJ3GEYJ330	33 / (1/10W)	
	R373	ERJ3GEYJ330	33 / (1/10W)	
	R374	ERJ3GEYJ330	33 / (1/10W)	
	R375	ERJ3GEYJ330	33 / (1/10W)	
	R376	ERJ3GEYJ330	33 / (1/10W)	
	R377	ERJ3GEYJ330	33 / (1/10W)	
	R378	ERJ3GEYJ102	1K / (1/10W)	
	R379	ERJ3GEYJ330	33 / (1/10W)	
	R380	ERJ3GEYJ105	1000K / (1/10W)	
	R381	ERJ3GEYJ330	33 / (1/10W)	
	R382	ERJ3GEYJ330	33 / (1/10W)	
	R383	ERJ3GEYJ103	10K / (1/10W)	
	R384	ERJ3GEYJ330	33 / (1/10W)	
	R385	ERJ3GEYJ330	33 / (1/10W)	
	R386	ERJ3GEYJ105	1000K / (1/10W)	
	R387	ERJ3GEYJ330	33 / (1/10W)	
	R388	ERJ3GEYJ103	10K / (1/10W)	
	R389	ERJ3GEYJ103	10K / (1/10W)	
	R390	ERJ3GEYJ330	33 / (1/10W)	
	R391	ERJ3GEYJ101	100 / (1/10W)	
	R392	ERJ3GEYJ330	33 / (1/10W)	
	R393	ERJ3GEYJ103	10K / (1/10W)	
	R394	ERJ3GEYJ470	47 / (1/10W)	
	R395	ERJ3GEYJ103	10K / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R396	ERJ3GEYJ470	47 / (1/10W)	
	R397	ERJ3GEYJ470	47 / (1/10W)	
	R398	ERJ3GEYJ330	33 / (1/10W)	
	R399	ERJ3GEYJ330	33 / (1/10W)	
	R400	ERJ3GEYJ330	33 / (1/10W)	
	R401	ERJ3GEYJ330	33 / (1/10W)	
	R402	ERJ3GEYJ330	33 / (1/10W)	
	R403	ERJ3GEYJ330	33 / (1/10W)	
	R404	ERJ3GEYJ330	33 / (1/10W)	
	R405	ERJ3GEYJ330	33 / (1/10W)	
	R406	ERJ3GEYJ330	33 / (1/10W)	
	R407	ERJ3GEYJ330	33 / (1/10W)	
	R408	ERJ3GEYJ330	33 / (1/10W)	
	R409	ERJ3GEYJ330	33 / (1/10W)	
	R410	ERJ3GEYJ330	33 / (1/10W)	
	R411	ERJ3GEYJ330	33 / (1/10W)	
	R412	ERJ3GEY0R00	0-ohm Jumper	
	R413	ERJ3GEY0R00	0-ohm Jumper	
	R414	ERJ3GEY0R00	0-ohm Jumper	
	R415	ERJ3GEY0R00	0-ohm Jumper	
	R416	ERJ3GEY0R00	0-ohm Jumper	
	R417	ERJ3GEY0R00	0-ohm Jumper	
	R418	ERJ3GEY0R00	0-ohm Jumper	
	R419	ERJ3GEY0R00	0-ohm Jumper	
	R420	ERJ3GEY0R00	0-ohm Jumper	
	R423	ERJ3GEYJ470	47 / (1/10W)	
	R424	ERJ3GEYJ470	47 / (1/10W)	
	R425	ERJ3GEYJ470	47 / (1/10W)	
	R426	ERJ3GEYJ470	47 / (1/10W)	
	R427	ERJ3GEYJ470	47 / (1/10W)	
	R428	ERJ3GEYJ470	47 / (1/10W)	
	R429	ERJ3GEYJ470	47 / (1/10W)	
	R430	ERJ3GEYJ470	47 / (1/10W)	
	R431	ERJ3GEYJ470	47 / (1/10W)	
	R432	ERJ3GEYJ470	47 / (1/10W)	
	R433	ERJ3GEYJ470	47 / (1/10W)	
	R434	ERJ3GEYJ470	47 / (1/10W)	
	R435	ERJ3GEYJ470	47 / (1/10W)	
	R436	ERJ3GEYJ470	47 / (1/10W)	
	R445	ERJ3GEYJ470	47 / (1/10W)	
	R446	ERJ3GEYJ220	22 / (1/10W)	
	R447	ERJ3GEYJ470	47 / (1/10W)	
	R448	ERJ3GEYJ103	10K / (1/10W)	
	R449	ERJ3GEYJ470	47 / (1/10W)	
	R450	ERJ3GEYJ103	10K / (1/10W)	
	R451	ERJ3GEYJ103	10K / (1/10W)	
	R454	ERJ3GEYJ220	22 / (1/10W)	
	R455	ERJ3GEYJ220	22 / (1/10W)	
	R456	ERJ3GEYJ220	22 / (1/10W)	
	R457	ERJ3GEYJ220	22 / (1/10W)	
	R458	ERJ3GEYJ220	22 / (1/10W)	
	R459	ERJ3GEYJ220	22 / (1/10W)	
	R460	ERJ3GEYJ220	22 / (1/10W)	
	R461	ERJ3GEYJ220	22 / (1/10W)	
	R462	ERJ3GEYJ220	22 / (1/10W)	
	R463	ERJ3GEYJ103	10K / (1/10W)	
	R464	ERJ3GEYJ103	10K / (1/10W)	
	R465	ERJ3GEYJ103	10K / (1/10W)	
	R466	ERJ3GEYJ103	10K / (1/10W)	
	R467	ERJ3GEYJ103	10K / (1/10W)	
	R468	ERJ3GEYJ103	10K / (1/10W)	
	R469	ERJ3GEYJ103	10K / (1/10W)	
	R470	ERJ3GEYJ103	10K / (1/10W)	
	R479	ERJ3GEYJ103	10K / (1/10W)	
	R480	ERJ3GEYJ103	10K / (1/10W)	
	R481	ERJ3GEYJ103	10K / (1/10W)	
	R482	ERJ3GEY0R00	0-ohm Jumper	
	R484	ERJ3GEY0R00	0-ohm Jumper	
	R488	ERJ3GEY0R00	0-ohm Jumper	
	R493	ERJ3GEYJ103	10K / (1/10W)	
	R494	ERJ3GEYJ103	10K / (1/10W)	
	R495	ERJ3GEYJ103	10K / (1/10W)	
	R496	ERJ3GEYJ103	10K / (1/10W)	
	R497	ERJ3GEYJ103	10K / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R498	ERJ3GEYJ103	10K / (1/10W)	
	R499	ERJ3GEYJ103	10K / (1/10W)	
	R500	ERJ3GEYJ470	47 / (1/10W)	
	R501	ERJ3GEYJ470	47 / (1/10W)	
	R504	ERJ3GEY0R00	0-ohm Jumper	
	R506	ERJ3GEYJ103	10K / (1/10W)	
	R507	ERJ3GEY0R00	0-ohm Jumper	
	R508	ERJ3GEY0R00	0-ohm Jumper	
	R509	ERJ3GEY0R00	0-ohm Jumper	
	R512	ERJ3GEYJ103	10K / (1/10W)	
	R513	ERJ3GEYJ103	10K / (1/10W)	
	R514	ERJ3GEYJ103	10K / (1/10W)	
	R515	ERJ3GEYJ103	10K / (1/10W)	
	R516	ERJ3GEYJ103	10K / (1/10W)	
	R517	ERJ3GEYJ104	100K / (1/10W)	
	R518	ERJ3GEYJ101	100 / (1/10W)	
	R519	ERJ3GEYJ304	300K / (1/10W)	
	C1	ECJ1VF1H104Z	0.1 / 50V	
	C4	ECJ1VF1H104Z	0.1 / 50V	
	C6	ECJ1VF1H104Z	0.1 / 50V	
	C7	ECJ1VF1H104Z	0.1 / 50V	
	C8	ECJ1VF1H104Z	0.1 / 50V	
	C9	ECJ1VF1H104Z	0.1 / 50V	
	C10	ECJ1VF1H104Z	0.1 / 50V	
	C11	ECJ1VF1H104Z	0.1 / 50V	
	C12	ECJ1VC1H102J	1000P / 50V	
	C14	ECJ1VF1H104Z	0.1 / 50V	
	C17	ECJ1VC1H102J	1000P / 50V	
	C19	ECJ1VF1H104Z	0.1 / 50V	
	C20	ECJ1VF1H104Z	0.1 / 50V	
	C21	ECJ0EB1A104K	0.1 / 10V	
	C22	ECJ0EB1A104K	0.1 / 10V	
	C23	ECJ0EB1A104K	0.1 / 10V	
	C24	ECJ0EB1A104K	0.1 / 10V	
	C25	ECJ0EB1A104K	0.1 / 10V	
	C26	ECJ0EB1A104K	0.1 / 10V	
	C27	ECJ0EB1A104K	0.1 / 10V	
	C28	ECJ0EB1A104K	0.1 / 10V	
	C29	ECJ0EB1A104K	0.1 / 10V	
	C30	ECJ0EB1A104K	0.1 / 10V	
	C31	ECJ0EB1A104K	0.1 / 10V	
	C32	ECJ0EB1A104K	0.1 / 10V	
	C33	ECJ1VF1H104Z	0.1 / 50V	
	C34	ECJ1VF1H104Z	0.1 / 50V	
	C35	ECJ1VF1H104Z	0.1 / 50V	
	C36	ECJ1VF1H104Z	0.1 / 50V	
	C37	ECJ1VF1H104Z	0.1 / 50V	
	C38	ECJ1VF1H104Z	0.1 / 50V	
	C39	ECJ1VF1H104Z	0.1 / 50V	
	C40	ECJ1VF1H104Z	0.1 / 50V	
	C41	ECJ1VC1H221J	220 / 50V	
	C42	ECJ0EB1A104K	0.1 / 10V	
	C43	ECJ1VC1H221J	220 / 50V	
	C44	ECJ0EB1A104K	0.1 / 10V	
	C45	ECJ0EB1A104K	0.1 / 10V	
	C46	ECJ0EB1A104K	0.1 / 10V	
	C47	ECJ0EB1A104K	0.1 / 10V	
	C48	ECJ0EB1A104K	0.1 / 10V	
	C49	ECJ0EB1A104K	0.1 / 10V	
	C50	ECJ0EB1A104K	0.1 / 10V	
	C51	ECJ0EB1A104K	0.1 / 10V	
	C52	ECJ0EB1A104K	0.1 / 10V	
	C53	ECJ0EB1A104K	0.1 / 10V	
	C54	ECJ0EB1A104K	0.1 / 10V	
	C55	ECJ0EB1A104K	0.1 / 10V	
	C56	ECJ1VF1H104Z	0.1 / 50V	
	C57	ECJ1VF1H104Z	0.1 / 50V	
	C61	ECJ1VF1H104Z	0.1 / 50V	
	C62	ECJ1VF1H104Z	0.1 / 50V	
	C64	ECJ1VF1H104Z	0.1 / 50V	
	C66	ECJ1VF1H104Z	0.1 / 50V	
	C71	ECJ1VF1H104Z	0.1 / 50V	
	C72	ECJ1VF1H104Z	0.1 / 50V	
	C73	ECJ1VF1H104Z	0.1 / 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C74	ECJ1VF1H104Z	0.1 / 50V	
	C75	ECJ1VB1C105K	1 / 16V	
	C76	ECJ1VCLH150J	15P / 50V	
	C77	ECJ1VCLH150J	15P / 50V	
	C78	ECJ1VCLH150J	15P / 50V	
	C79	ECJ1VCLH150J	15P / 50V	
	C80	F2G1A1010013	100 / 10V	
	C81	ECJ1VF1H104Z	0.1 / 50V	
	C83	ECJ1VF1H104Z	0.1 / 50V	
	C84	F2G1A1010013	100 / 10V	
	C85	ECJ1VF1H104Z	0.1 / 50V	
	C86	ECJ1VF1H104Z	0.1 / 50V	
	C87	ECJ1VF1H104Z	0.1 / 50V	
	C88	ECJ1VF1H104Z	0.1 / 50V	
	C89	ECJ1VF1H104Z	0.1 / 50V	
	C90	ECJ1VF1H104Z	0.1 / 50V	
	C91	ECJ1VF1H104Z	0.1 / 50V	
	C92	F2G1C1000014	100 / 16V	
	C93	F2G1C1000014	100 / 16V	
	C94	ECJ1VF1H104Z	0.1 / 50V	
	C95	F2G1C1000014	100 / 16V	
	C96	F2G1A1010013	100 / 10V	
	C97	ECJ1VF1H104Z	0.1 / 50V	
	C98	ECJ1VF1H104Z	0.1 / 50V	
	C99	F2G1C1000014	100 / 16V	
	C100	F2G1A1010013	100 / 10V	
	C101	ECJ1VF1H104Z	0.1 / 50V	
	C102	ECJ1VCLH470J	47P / 50V	
	C103	ECJ1VF1H104Z	0.1 / 50V	
	C104	ECJ1VCLH470J	47P / 50V	
	C105	ECJ1VCLH470J	47P / 50V	
	C106	ECJ1VCLH470J	47P / 50V	
	C107	ECJ1VCLH470J	47P / 50V	
	C108	ECJ1VCLH470J	47P / 50V	
	C109	ECJ1VF1H104Z	0.1 / 50V	
	C110	ECJ1VF1H104Z	0.1 / 50V	
	C111	ECJ1VF1H104Z	0.1 / 50V	
	C113	F2G1C1000014	100 / 16V	
	C115	ECJ1VCLH270J	27P / 50V	
	C117	ECJ1VF1H104Z	0.1 / 50V	
	C118	ECJ1VF1H104Z	0.1 / 50V	
	C119	ECJ1VCLH270J	27P / 50V	
	C120	ECJ1VCLH270J	27P / 50V	
	C122	ECJ1VF1H104Z	0.1 / 50V	
	C123	ECJ1VCLH270J	27P / 50V	
	C124	ECJ1VF1H104Z	0.1 / 50V	
	C125	ECJ1VF1H104Z	0.1 / 50V	
	C126	ECJ1VF1H104Z	0.1 / 50V	
	C128	F2G1V1010023	200 / 50V	
	C129	F2G1A1010013	100 / 10V	
	C130	ECJ1VF1H104Z	0.1 / 50V	
	C131	ECJ1VF1H104Z	0.1 / 50V	
	C132	F2G1A1010013	100 / 10V	
	C133	F2G1A1010013	100 / 10V	
	C134	ECJ1VF1H104Z	0.1 / 50V	
	C135	ECJ1VF1H104Z	0.1 / 50V	
	C136	F2G1A1010013	100 / 10V	
	C137	ECJ1VF1H104Z	0.1 / 50V	
	C138	ECJ1VF1H104Z	0.1 / 50V	
	C139	ECJ1VF1H104Z	0.1 / 50V	
	C140	F2G1A1010013	100 / 10V	
	C141	ECJ1VF1H104Z	0.1 / 50V	
	C142	ECJ1VF1H104Z	0.1 / 50V	
	C143	ECJ1VF1H104Z	0.1 / 50V	
	C144	ECJ1VF1H104Z	0.1 / 50V	
	C146	ECJ1VCLH070D	7P / 50V	
	C147	F2G1C1000014	100 / 16V	
	C148	ECJ1VF1H104Z	0.1 / 50V	
	C149	ECJ1VF1H104Z	0.1 / 50V	
	C150	ECJ1VCLH101J	100P / 50V	
	C151	ECJ1VCLH101J	100P / 50V	
	C152	ECJ1VCLH101J	100P / 50V	
	C153	ECJ1VCLH101J	100P / 50V	
	C154	ECJ1VCLH101J	100P / 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C155	ECJ1VC1H101J	100P / 50V	
	C156	ECJ1VC1H101J	100P / 50V	
	C157	ECJ1VC1H101J	100P / 50V	
	C158	ECJ1VC1H101J	100P / 50V	
	C159	ECJ1VC1H101J	100P / 50V	
	C160	ECJ1VC1H101J	100P / 50V	
	C161	ECJ1VC1H101J	100P / 50V	
	C162	ECJ1VC1H101J	100P / 50V	
	C163	ECJ1VC1H101J	100P / 50V	
	C172	ECJ1VC1H101J	100P / 50V	
	C173	ECJ1VC1H101J	100P / 50V	
	C174	ECJ1VC1H101J	100P / 50V	
	C175	ECJ1VC1H101J	100P / 50V	
	C176	ECJ1VC1H101J	100P / 50V	
	C177	ECJ1VC1H101J	100P / 50V	
	C178	ECJ1VC1H101J	100P / 50V	
	C179	ECJ1VC1H101J	100P / 50V	
	C180	ECJ1VC1H101J	100P / 50V	
	C183	ECJ1VC1H101J	100P / 50V	
	C184	ECJ1VC1H101J	100P / 50V	
	C185	ECJ1VC1H101J	100P / 50V	
	C186	ECJ1VC1H101J	100P / 50V	
	C187	ECJ1VC1H101J	100P / 50V	
	C188	ECJ1VC1H150J	15P / 50V	
	C189	ECJ1VC1H150J	15P / 50V	
	C190	ECJ1VC1H150J	15P / 50V	
	C191	ECJ1VC1H150J	15P / 50V	
	C192	ECJ1VC1H150J	15P / 50V	
	C193	ECJ1VC1H150J	15P / 50V	
	C194	F2G1C1000014	100 / 16V	
	C197	ECJ1VC1H102J	1000P / 50V	
	C198	ECJ1VB1C105K	1 / 16V	
	C199	ECJ1VC1H070D	7P / 50V	
	C200	ECJ1VB1C105K	1 / 16V	
	C204	ECJ1VC1H101J	100P / 50V	
	C205	ECJ1VF1H104Z	0.1 / 50V	
	C206	ECJ1VF1H104Z	0.1 / 50V	
	C207	ECJ1VF1H104Z	0.1 / 50V	
	C208	ECJ1VF1H104Z	0.1 / 50V	
	C209	ECJ1VF1H104Z	0.1 / 50V	
	C210	ECJ1VF1H104Z	0.1 / 50V	
	C211	ECJ1VF1H104Z	0.1 / 50V	
	C212	ECJ1VF1H104Z	0.1 / 50V	
	C214	ECJ1VF1H104Z	0.1 / 50V	
	C215	ECJ1VF1H104Z	0.1 / 50V	
	C216	ECJ1VF1H104Z	0.1 / 50V	
	C217	ECJ1VF1H104Z	0.1 / 50V	
	C218	ECJ1VF1H104Z	0.1 / 50V	
	C220	ECJ1VF1H104Z	0.1 / 50V	
	C221	ECJ1VF1H104Z	0.1 / 50V	
	C222	ECJ1VF1H104Z	0.1 / 50V	
	C223	ECJ1VF1H104Z	0.1 / 50V	
	C224	ECJ1VF1H104Z	0.1 / 50V	
	C225	ECJ1VF1H104Z	0.1 / 50V	
	C226	ECJ1VF1H104Z	0.1 / 50V	
	D5	MA3X70400L	Diode	
	L1	J0JHC0000046	Filter	
	L2	J0JHC0000046	Filter	
	L3	J0JHC0000046	Filter	
	L4	J0JHC0000046	Filter	
	L5	J0JHC0000046	Filter	
	L19	J0JCC0000059	Inductor Coil	
	L20	J0JCC0000059	Inductor Coil	
	L21	J0JCC0000059	Inductor Coil	
	L22	J0JHC0000075	Filter	
	L26	ERJ3GEY0R00	0-ohm Jumper	
	L27	ERJ3GEY0R00	0-ohm Jumper	
	L28	ERJ3GEY0R00	0-ohm Jumper	
	L29	ERJ3GEY0R00	0-ohm Jumper	
	L30	ERJ3GEY0R00	0-ohm Jumper	
	L31	ERJ3GEY0R00	0-ohm Jumper	
	L32	ERJ3GEY0R00	0-ohm Jumper	
	L33	ERJ3GEY0R00	0-ohm Jumper	
	L34	ERJ3GEY0R00	0-ohm Jumper	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	L35	ERJ3GEY0R00	0-ohm Jumper	
	L36	ERJ3GEY0R00	0-ohm Jumper	
	L37	ERJ3GEY0R00	0-ohm Jumper	
	L38	ERJ3GEY0R00	0-ohm Jumper	
	L48	J0JGC0000020	Filter	
	L49	J0JHC0000075	Filter	
	L50	J0JHC0000075	Filter	
	L51	J0JHC0000075	Filter	
	L52	J0JHC0000075	Filter	
	L53	ERJ3GEY0R00	0-ohm Jumper	
	L54	J0JHC0000046	Filter	
	L55	ERJ3GEY0R00	0-ohm Jumper	
	L56	J0JHC0000075	Filter	
	L57	J0JHC0000075	Filter	
	IC1	C0JBAE000321	IC	
	IC2	PJWII0A710M	IC FLASH	
	IC3	C3ABRY000039	IC DRAM	
	IC4	CLZBZ0002831	IC	
	IC5	CLZBZ0002994	IC	
	IC6	C0JBAZ002811	IC	
	IC7	COZBZ0000744	IC	
	IC8	COZBZ0000743	IC	
	IC9	C0JBAZ002811	IC	
	IC10	COZBZ0000744	IC	
	IC11	C0DBZYY00015	IC	
	IC12	COZBZ0001432	IC	
	IC13	CLDB00001308	IC	
	IC14	C0DBCFG00013	IC	
	IC15	COEBE0000338	IC	
	IC16	C0JBAZ002811	IC	
	IC17	C0JBAZ002812	IC	
	IC19	CLZBZ0002783	IC	
	IC20	C0JBAA000362	IC	
	T1	G1BYYC00014	Choke Coil	
	T2	G1BYYC00014	Choke Coil	
	T3	G1BYYC00014	Choke Coil	
	X1	H1A4805B0023	Crystal Oscillator	
	X2	H0A600400005	Crystal Resonator	
	X3	H0A600400005	Crystal Resonator	
	X4	H0A327200165	Crystal Resonator	
	CN3	K1NA09E00076	Connector	
	CN4	K1KA28AA0178	Connector	
	CN5	K1KA30AA0178	Connector	
	CN6	K1KA10A00411	Connector	
	CN7	K1KA22AA0178	Connector	
	JK1	K1FY104B0004	Connector	
	JK2	K1FY104B0004	Connector	
	JK3	K1FY104B0002	Connector	
	F1	K5G202Y00006	Fuse 250V	

13.12. SCANNER Board

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R600	ERJ3GEYJ220	22 / (1/10W)	
	R601	ERJ3GEYJ220	22 / (1/10W)	
	R602	ERJ3GEYJ220	22 / (1/10W)	
	R603	ERJ3GEYJ220	22 / (1/10W)	
	R604	ERJ3EKF2200V	2.0K / (1/10W)	
	R609	ERJ3GEYJ103	10K / (1/10W)	
	R610	ERJ3EKF2200V	2.0K / (1/10W)	
	R611	ERJ3EKF3901	3.9K / (1/16W)	
	R612	ERJ3GEYJ220	22 / (1/10W)	
	R613	ERJ3GEYJ822	8.2K / (1/10W)	
	R614	ERJ3GEY0R00	0-ohm Jumper	
	R615	ERJ3GEY0R00	0-ohm Jumper	
	R616	ERJ3GEYJ103	10K / (1/10W)	
	R617	ERJ3GEYJ103	10K / (1/10W)	
	R618	ERJ3GEYJ103	10K / (1/10W)	
	R619	ERJ3GEYJ220	22 / (1/10W)	
	R620	ERJ3GEYJ220	22 / (1/10W)	
	R621	ERJ3GEYJ220	22 / (1/10W)	
	R622	ERJ3GEYJ220	22 / (1/10W)	
	R623	ERJ3GEYJ220	22 / (1/10W)	
	R624	ERJ3GEYJ220	22 / (1/10W)	
	R625	ERJ3GEYJ220	22 / (1/10W)	
	R626	ERJ3GEYJ220	22 / (1/10W)	
	R627	ERJ3GEYJ220	22 / (1/10W)	
	R629	ERJ8GEYJ1R0V	1.0 / (1/4W)	
	R630	ERJ8GEYJ1R0V	1.0 / (1/4W)	
	R633	ERJ3GEYJ103	10K / (1/10W)	
	R634	ERJ3GEYJ103	10K / (1/10W)	
	R635	ERJ3GEYJ103	10K / (1/10W)	
	R636	ERJ3GEYJ220	22 / (1/10W)	
	R638	ERJ3EKF3162V	31.6K / (1/10W)	
	R639	ERJ3EKF1002	10K / (1/10W)	
	R641	ERJ3GEYJ102	1K / (1/10W)	
	R642	ERJ3GEYJ103	10K / (1/10W)	
	R643	ERJ14YJ151U	150 / (1/4W)	
	R644	ERJ3GEYJ103	10K / (1/10W)	
	R646	ERJ3GEYJ220	22 / (1/10W)	
	R647	ERJ3GEYJ220	22 / (1/10W)	
	R648	ERJ3GEYJ220	22 / (1/10W)	
	R650	ERJ3GEYJ102	1K / (1/10W)	
	R651	ERJ3GEYJ103	10K / (1/10W)	
	R652	ERJ14YJ151U	150 / (1/4W)	
	R653	ERJ3GEYJ103	10K / (1/10W)	
	R655	ERJ3GEYJ102	1K / (1/10W)	
	R656	ERJ3GEYJ103	10K / (1/10W)	
	R657	ERJ14YJ151U	150 / (1/4W)	
	R658	ERJ3GEYJ103	10K / (1/10W)	
	R659	ERJ3GEYJ101	100 / (1/10W)	
	R660	ERJ3GEYJ101	100 / (1/10W)	
	R661	ERJ3GEYJ101	100 / (1/10W)	
	R662	ERJ3GEYJ304	300K / 1/10W	
	R663	ERJ3GEYJ304	300K / 1/10W	
	R664	ERJ3GEYJ304	300K / 1/10W	
	R665	ERJ3GEYJ304	300K / 1/10W	
	R666	ERJ3GEYJ304	300K / 1/10W	
	R667	ERJ3GEYJ304	300K / 1/10W	
	R668	ERJ3GEYJ304	300K / 1/10W	
	R669	ERJ3GEYJ101	100 / (1/10W)	
	R670	ERJ3GEYJ304	300K / 1/10W	
	R671	ERJ3GEYJ103	10K / (1/10W)	
	R672	ERJ3GEYJ101	100 / (1/10W)	
	R673	ERJ3GEYJ101	100 / (1/10W)	
	R674	ERJ3GEYJ101	100 / (1/10W)	
	R675	ERJ3GEYJ101	100 / (1/10W)	
	R676	ERJ3GEYJ220	22 / (1/10W)	
	R677	ERJ3GEYJ220	22 / (1/10W)	
	R678	ERJ3GEYJ101	100 / (1/10W)	
	R679	ERJ3GEYJ101	100 / (1/10W)	
	R680	ERJ3GEYJ101	100 / (1/10W)	
	R681	ERJ3GEYJ101	100 / (1/10W)	
	R682	ERJ3GEYJ101	100 / (1/10W)	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R684	ERJ3GEYJ103	10K / (1/10W)	
	R685	ERJ3GEY0R00	0-ohm Jumper	
	R686	ERJ3GEY0R00	0-ohm Jumper	
	R687	ERJ3GEY0R00	0-ohm Jumper	
	R688	ERJ3GEY0R00	0-ohm Jumper	
	R691	ERJ3GEYJ103	10K / (1/10W)	
	R693	ERJ3GEYJ101	100 / (1/10W)	
	R697	ERJ3GEY0R00	0-ohm Jumper	
	R699	ERJ3GEYJ101	100 / (1/10W)	
	R703	ERJ3GEYJ101	100 / (1/10W)	
	R704	ERJ3GEY0R00	0-ohm Jumper	
	R709	ERJ3GEY0R00	0-ohm Jumper	
	R711	ERJ3GEYJ101	100 / (1/10W)	
	R715	ERJ3GEY0R00	0-ohm Jumper	
	R716	ERJ3GEY0R00	0-ohm Jumper	
	R717	ERJ8GEYJ1R0V	1.0 / (1/4W)	
	R718	ERJ1TYJ241U	240 / (1W)	
	R719	ERJ1TYJ241U	240 / (1W)	
	R721	ERJ1TYJ111U	110 / (1W)	
	R722	ERJ1TYJ111U	110 / (1W)	
	R723	ERJ1TYJ111U	110 / (1W)	
	R724	ERJ1TYJ111U	110 / (1W)	
	R725	ERJ1TYJ150U	15 / (1W)	
	R726	ERJ1TYJ150U	15 / (1W)	
	C600	ECJ1VC1H470J	47P / 50V	
	C601	ECJ1VC1H470J	47P / 50V	
	C602	ECJ1VC1H470J	47P / 50V	
	C603	ECJ1VC1H470J	47P / 50V	
	C604	ECJ1VC1H470J	47P / 50V	
	C605	ECJ1VC1H470J	47P / 50V	
	C606	ECJ1VC1H470J	47P / 50V	
	C607	ECJ1VC1H470J	47P / 50V	
	C608	ECJ1VF1H104Z	0.1 / 50V	
	C609	ECJ1VF1H104Z	0.1 / 50V	
	C610	ECJ1VF1H104Z	0.1 / 50V	
	C611	ECJ1VF1H104Z	0.1 / 50V	
	C612	ECJ1VF1H104Z	0.1 / 50V	
	C613	ECJ1VF1H104Z	0.1 / 50V	
	C614	ECJ1VF1H104Z	0.1 / 50V	
	C615	ECJ1VF1H104Z	0.1 / 50V	
	C616	ECJ1VB1C105K	1 / 16V	
	C617	ECJ1VB1C105K	1 / 16V	
	C618	ECJ1VB1C105K	1 / 16V	
	C619	ECJ1VB1C105K	1 / 16V	
	C620	ECJ1VF1H104Z	0.1 / 50V	
	C621	ECJ1VF1H104Z	0.1 / 50V	
	C622	ECJ1VF1H104Z	0.1 / 50V	
	C623	ECJ1VF1H104Z	0.1 / 50V	
	C624	ECJ1VC1H101J	100P / 50V	
	C625	ECJ1VC1H101J	100P / 50V	
	C627	ECJ1VB1C105K	1 / 16V	
	C629	ECJ1VB1C105K	1 / 16V	
	C630	ECJ1VC1H101J	100P / 50V	
	C631	ECJ1VF1H104Z	0.1 / 50V	
	C632	ECJ1VF1H104Z	0.1 / 50V	
	C633	ECJ1VF1H104Z	0.1 / 50V	
	C634	ECJ1VC1H101J	100P / 50V	
	C635	ECJ1VC1H101J	100P / 50V	
	C636	ECJ1VC1H101J	100P / 50V	
	C637	ECJ1VC1H101J	100P / 50V	
	C638	ECJ1VF1H104Z	0.1 / 50V	
	C639	ECJ1VC1H101J	100P / 50V	
	C640	ECJ1VF1H104Z	0.1 / 50V	
	C641	ECJ1VF1H104Z	0.1 / 50V	
	C642	ECJ1VC1H101J	100P / 50V	
	C643	ECJ1VC1H101J	100P / 50V	
	C644	ECJ1VC1H101J	100P / 50V	
	C645	F2G1V1010023	2K / 35V	
	C646	ECJ1VF1H104Z	0.1 / 50V	
	C647	ECJ1VC1H470J	47P / 50V	
	C648	ECJ1VF1H104Z	0.1 / 50V	
	C649	F2G1V1010023	2K / 35V	
	C650	F2G1A1010013	100 / 10V	
	C651	EEEF1V101P	100 / 35V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C652	ECJ1VF1H104Z	0.1 / 50V	
	C653	ECJ1VF1H104Z	0.1 / 50V	
	C654	ECJ1VCLH102J	1000P / 50V	
	C655	ECJ1VF1H104Z	0.1 / 50V	
	C656	F2G1V2200009	22 / 35V	
	C657	ECJ1VF1H104Z	0.1 / 50V	
	C658	ECJ1VF1H104Z	0.1 / 50V	
	C659	ECJ1VF1H104Z	0.1 / 50V	
	C660	ECJ1VF1H104Z	0.1 / 50V	
	C661	F2G1C1000014	100 / 16V	
	C662	F2G1C1000014	100 / 16V	
	C663	ECJ1VF1H104Z	0.1 / 50V	
	C664	ECJ1VF1H104Z	0.1 / 50V	
	C665	ECJ1VF1H104Z	0.1 / 50V	
	C666	ECJ1VF1H104Z	0.1 / 50V	
	C667	F2G1C1000014	100 / 16V	
	C668	ECJ1VF1H104Z	0.1 / 50V	
	C669	ECJ1VCLH101J	100P / 50V	
	C686	ECJ1VF1H104Z	0.1 / 50V	
	C687	ECJ1VF1H104Z	0.1 / 50V	
	C688	ECJ1VF1H104Z	0.1 / 50V	
	C690	ECJ1VF1H104Z	0.1 / 50V	
	C692	F2G1V2200009	22 / 35V	
	C693	ECJ1VF1H104Z	0.1 / 50V	
	C694	ECJ1VF1H104Z	0.1 / 50V	
	D600	MA4X72400L	Diode	
	D601	MA4X72400L	Diode	
	D602	B0JCPD000039	Diode	
	D603	MA3X152A0L	Diode	
	D604	MA3X152A0L	Diode	
	L601	J0JCC0000059	Inductor Coil	
	L602	J0JCC0000059	Inductor Coil	
	L603	J0JCC0000059	Inductor Coil	
	L604	J0JCC0000059	Inductor Coil	
	L605	J0JHC0000075	Filter	
	L606	J0JHC0000075	Filter	
	L607	G1A151E00003	Coil	
	L608	J0JCC0000059	Inductor Coil	
	L609	J0JCC0000059	Inductor Coil	
	L610	J0JHC0000046	Filter	
	L611	J0JCC0000059	Inductor Coil	
	L612	J0JCC0000059	Inductor Coil	
	L613	J0JHC0000046	Filter	
	L614	J0JCC0000059	Inductor Coil	
	L615	J0JCC0000059	Inductor Coil	
	L616	J0JHC0000046	Filter	
	L617	J0JCC0000059	Inductor Coil	
	L618	J0JCC0000059	Inductor Coil	
	L619	J0JHC0000046	Filter	
	Q600	B1GFCFAA0004	Transistor	
	Q601	B1ABCF000011	Transistor	
	Q602	2SD21850RL	Transistor	
	Q603	B1ABCF000011	Transistor	
	Q604	2SD21850RL	Transistor	
	Q605	B1ABCF000011	Transistor	
	Q606	2SD21850RL	Transistor	
	IC600	COEBE0000338	IC	
	IC602	C1AB00002638	IC	
	IC603	C0DBAMG00026	IC	
	IC604	C0JBAZ002811	IC	
	IC605	C0DBGYY00507	IC	
	IC606	C0ZBZ0000743	IC	
	IC607	C0ZBZ0000743	IC	
	IC608	C0ZBZ0000744	IC	
	IC609	C0JBAB000660	IC	
	IC610	C0JBAB000660	IC	
	IC614	C0DBGYY00055	IC	
	CN600	K1KA10BA0062	Connector	
	CN601	K1KY10BA0016	Connector	
	CN602	K1KA10BA0062	Connector	
	CN603	K1KY10BA0016	Connector	
	CN604	K1KA16BA0053	Connector	
	CN605	K1KA04AA0193	Connector	
	CN606	K1KA30BA0053	Connector	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	F600	K5H251200003	FUSE	

13.13. PANEL Board

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R700	ERJ3GEYJ470	47 / (1/10W)	
	R701	ERJ3GEYJ470	47 / (1/10W)	
	R702	ERJ3GEYJ470	47 / (1/10W)	
	R703	ERJ3GEYJ470	47 / (1/10W)	
	R704	ERJ3GEYJ470	47 / (1/10W)	
	R705	ERJ3GEYJ470	47 / (1/10W)	
	R706	ERJ3GEYJ470	47 / (1/10W)	
	R707	ERJ3GEYJ470	47 / (1/10W)	
	R708	ERJ3GEYJ470	47 / (1/10W)	
	R709	ERJ3GEYJ470	47 / (1/10W)	
	R710	ERJ3GEYJ470	47 / (1/10W)	
	R711	ERJ3GEYJ470	47 / (1/10W)	
	R712	ERJ3GEYJ470	47 / (1/10W)	
	R713	ERJ3GEYJ470	47 / (1/10W)	
	R722	ERJ3GEYJ470	47 / (1/10W)	
	R731	ERJ3GEYJ103	10K / (1/10W)	
	R732	ERJ3GEYJ103	10K / (1/10W)	
	R733	ERJ3GEYJ103	10K / (1/10W)	
	R734	ERJ3GEYJ103	10K / (1/10W)	
	R735	ERJ3GEYJ103	10K / (1/10W)	
	R736	ERJ3GEYJ103	10K / (1/10W)	
	R737	ERJ3GEYJ103	10K / (1/10W)	
	R738	ERJ3GEYJ103	10K / (1/10W)	
	R739	ERJ3GEYJ122	1.2K / (1/10W)	
	R740	ERJ3GEYJ202	2K / (1/10W)	
	R741	ERJ3GEYJ202	2K / (1/10W)	
	R742	ERJ3GEYJ202	2K / (1/10W)	
	R743	ERJ3GEYJ470	47 / (1/10W)	
	R744	ERJ3GEYJ202	2K / (1/10W)	
	R745	ERJ3GEYJ103	10K / (1/10W)	
	R746	ERJ3GEYJ470	47 / (1/10W)	
	R747	ERJ3GEYJ470	47 / (1/10W)	
	R748	ERJ3GEYJ470	47 / (1/10W)	
	R749	ERJ3GEYJ470	47 / (1/10W)	
	R750	ERJ3GEYJ470	47 / (1/10W)	
	R751	ERJ3GEYJ470	47 / (1/10W)	
	R752	ERJ3GEYJ470	47 / (1/10W)	
	R753	ERJ3GEYJ470	47 / (1/10W)	
	R754	ERJ3GEYJ470	47 / (1/10W)	
	R763	ERJ3GEYJ470	47 / (1/10W)	
	R764	ERJ3GEYJ470	47 / (1/10W)	
	R765	ERJ3GEYJ470	47 / (1/10W)	
	R766	ERJ3GEYJ470	47 / (1/10W)	
	R767	ERJ3GEYJ103	10K / (1/10W)	
	R768	ERJ3GEYJ103	10K / (1/10W)	
	R769	ERJ3GEYJ103	10K / (1/10W)	
	R770	ERJ3GEYJ103	10K / (1/10W)	
	R771	ERJ3GEYJ103	10K / (1/10W)	
	R772	ERJ3GEYJ103	10K / (1/10W)	
	R773	ERJ3GEYJ103	10K / (1/10W)	
	R774	ERJ3GEYJ103	10K / (1/10W)	
	R784	ERJ3GEYJ103	10K / (1/10W)	
	R785	ERJ3GEYJ103	10K / (1/10W)	
	R786	ERJ3GEYJ102	1K / (1/10W)	
	R787	ERJ3GEYJ102	1K / (1/10W)	
	R788	ERJ3GEYJ102	1K / (1/10W)	
	R789	ERJ3GEYJ102	1K / (1/10W)	
	R790	ERJ3GEYJ103	10K / (1/10W)	
	R791	ERJ3GEY0R00	0-ohm Jumper	
	C700	ECJ1VB1C105K	1 / 16V	
	C701	ECJ1VC1H101J	100P / 50V	
	C702	ECJ1VC1H101J	100P / 50V	
	C703	ECJ1VF1H104Z	0.1 / 50V	
	C704	ECJ1VC1H101J	100P / 50V	
	C705	ECJ1VC1H101J	100P / 50V	
	C706	ECJ1VC1H101J	100P / 50V	
	C707	ECJ1VC1H101J	100P / 50V	
	C708	ECJ1VC1H101J	100P / 50V	

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	C709	F2G1A1010013	100 / 10V	
	C710	ECJ1VCIH101J	100P / 50V	
	C711	ECJ1VCIH101J	100P / 50V	
	C712	ECJ1VF1H104Z	0.1 / 50V	
	C713	ECJ1VCIH101J	100P / 50V	
	C714	ECJ1VCIH101J	100P / 50V	
	C715	ECJ1VCIH101J	100P / 50V	
	C716	ECJ1VCIH101J	100P / 50V	
	C717	ECJ1VCIH101J	100P / 50V	
	C726	ECJ1VCIH101J	100P / 50V	
	C727	ECJ1VF1H104Z	0.1 / 50V	
	C728	ECJ1VF1H104Z	0.1 / 50V	
	C729	ECJ1VCIH101J	100P / 50V	
	C730	ECJ1VCIH101J	100P / 50V	
	C731	ECJ1VCIH101J	100P / 50V	
	C732	ECJ1VF1H104Z	0.1 / 50V	
	C733	ECJ1VCIH102J	1000P / 50V	
	C734	ECJ1VCIH101J	100P / 50V	
	C735	ECJ1VF1H104Z	0.1 / 50V	
	C736	ECJ1VCIH102J	1000P / 50V	
	C737	ECJ1VCIH102J	1000P / 50V	
	C738	ECJ1VCIH102J	1000P / 50V	
	C741	ECJ1VCIH101J	100P / 50V	
	C742	ECJ1VCIH101J	100P / 50V	
	C743	ECJ1VCIH101J	100P / 50V	
	C744	ECJ1VCIH101J	100P / 50V	
	C745	ECJ1VCIH101J	100P / 50V	
	C746	ECJ1VCIH101J	100P / 50V	
	C747	ECJ1VCIH101J	100P / 50V	
	C748	ECJ1VCIH101J	100P / 50V	
	C749	ECJ1VCIH101J	100P / 50V	
	C750	ECJ1VCIH101J	100P / 50V	
	C751	ECJ1VCIH101J	100P / 50V	
	C752	ECJ1VCIH101J	100P / 50V	
	C753	ECJ1VCIH101J	100P / 50V	
	C763	F2G1A1010013	100 / 10V	
	C764	ECJ1VF1H104Z	0.1 / 50V	
	D700	MA3X70400L	Diode	
	L705	ERJ3GEY0R00	0-ohm Jumper	
	L706	ERJ3GEY0R00	0-ohm Jumper	
	L707	ERJ3GEY0R00	0-ohm Jumper	
	L708	ERJ3GEY0R00	0-ohm Jumper	
	L709	ERJ3GEY0R00	0-ohm Jumper	
	L710	ERJ3GEY0R00	0-ohm Jumper	
	L711	ERJ3GEY0R00	0-ohm Jumper	
	L712	ERJ3GEY0R00	0-ohm Jumper	
	IC700	C0JBAZ002811	IC	
	IC701	C0JBAZ002812	IC	
	IC703	C0JBAAE000321	IC	
	IC704	C0JBAZ002811	IC	
	SW700	EVQ11G05R	Switch	
	SW701	EVQ11G05R	Switch	
	SW702	EVQ11G05R	Switch	
	SW703	EVQ11G05R	Switch	
	CN700	K1KA22BA0053	Connector	
	CN701	K1MY18BA0339	Connector	
	RM700	PJBUC0116Z	Plate Contact A	
	RM701	PJBUC0117Z	Plate Contact B	

13.14. MOTOR DRIVE Board

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R800	ERJ3GEYJ561	560/(1/10W)	
	R801	ERJ3GEYJ561	560/(1/10W)	
	R802	ERJ3GEYJ561	560/(1/10W)	
	R803	ERJ3GEYJ561	560/(1/10W)	
	R805	ERJ3GEYJ203V	230/(1/10W)	
	R806	ERX2SJR75H	Resistor / 2W	
	R807	ERX2SJR75H	Resistor / 2W	
	R810	ERJ3GEYJ201	200/(1/10W)	
	R811	ERJ3GEYJ473	47K/(1/10W)	
	R812	ERJ3GEY0R00	0-ohm Jumper	
	R813	ERJ3GEY0R00	0-ohm Jumper	
	R818	ERJ3GEY0R00	0-ohm Jumper	
	C800	F2G1A1010013	100 / 10V	
	C801	ECJ1VF1H104Z	0.1 / 50V	
	C802	ECJ1VF1H104Z	0.1 / 50V	
	C803	ECJ1VF1H104Z	0.1 / 50V	
	C804	ECUX1H332KBV	3300P / 50V	
	C805	F2G1V1010023	2K / 35V	
	C806	ECJ1VF1H104Z	0.1 / 50V	
	C807	ECJ1VF1H104Z	0.1 / 50V	
	C808	ECJ1VF1H104Z	0.1 / 50V	
	C809	F2G1A1010013	100 / 10V	
	CN800	K1KA28BA0053	Connector	
	CN801	K1KA16AA0178	Connector	
	CN802	K1KA04AA0193	Connector	
	CN803	K1KA03AA0193	Connector	
	D800	B0JCM000012	Diode	
	IC800	C0GBH000023	IC	
	Q800	B1ADNG000002	Transistor	
	Q900	B1ABCF000021	Transistor	

13.15. SENSOR CIRCUIT Board

Safety	Ref. No.	Part No.	Part Name & Description	Remarks
	R900	ERJ6GEYJ111V	110/(1/10W)	
	R901	ERJ3GEYJ103	10K / (1/10W)	
	R902	ERJ3GEYJ472	4.7K / (1/10W)	
	R903	ERJ3GEYJ103	10K / (1/10W)	
	R904	ERJ3GEYJ220	22 / (1/10W)	
	C900	ECJ1VF1H104Z	0.1 / 50V	
	C901	ECJ1VC1H101J	100P / 50V	
	CN900	K1KA03BA0061	Connector	
	IC900	B3NAB000023	IC	