Android KIOSK System Electronic Manuals

Rev.1.00.240124A.E
This manual consists of system introduction, system installation, system use, system expansion and appendix A/B

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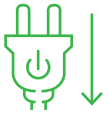
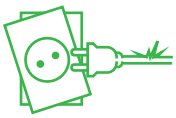
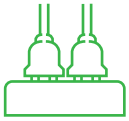
01. Safety Notices Before Installation or Use

Use the following safety guidelines to help ensure your own personal safety and to help protect. your equipment and working environment from potential damage.

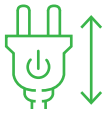
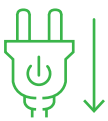
Caution

	Keep rated voltage. The product can be damaged or burned by overvoltage.
	Do not use damaged components. The product may be damaged unless it is repaired at service center.
	Install the product in a clean and dry place. The product may not work properly in moist or dusty environments.
	Always copy important files. Always copy important files because data loss cannot be guaranteed by manufacturer.
	**Turn off the system and Remove the power cable before the product is removed.** You may get an electric shock.
	**Do not use loose or damaged power cables.** There may be electric shock or fire.
	Always connect power cable to a grounded 3-wire outlet. It prevents electric shock from electrical short.
	Install the product at a place with good ventilation. The product may be transformed or burned by overheating if air vent is blocked.
	**Use power strips designed for computers.** There may be fire caused by overvoltage.

01. Safety Notices Before Installation or Use

Use the following safety guidelines to help ensure your own personal safety and to help protect. your equipment and working environment from potential damage.

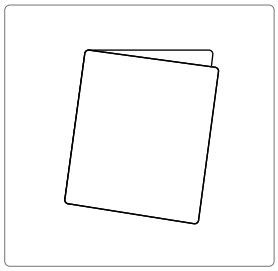
Caution

	Use the cleaner which is only for computer. Do not use benzene, thinner and alcohol or the product may be damaged.
	Keep the product away from heaters. The product may be damaged, overheated or burned.
	**Turn on the system after turning on peripheral device. Turn off peripheral device after turn off the system.** The product may be damaged.
	Install the product in a safe, stable place. The product may be damaged or you may get injured if the product is dropped.
	Carefully store or dispose of plastic packing material. It is dangerous if children put their head on it.
	Do not touch the power plug with a wet hand. You may get an electric shock.
	Do not touch modem, telephone line or exposed terminal during electrical storms. There may be electric shock or fire.
	**Upgrade the system after shutting off the power of system and its peripheral device.** The product may be damaged.
	System should use compatible peripherals. Devices other than peripherals provided by us may experience compatibility issues.

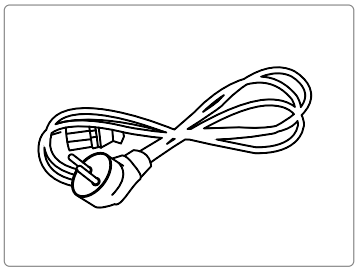
02. System Introduction

The exterior design and specifications of product can be changed without prior notice in order to improve quality.

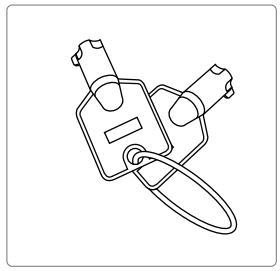
■ Quick manual



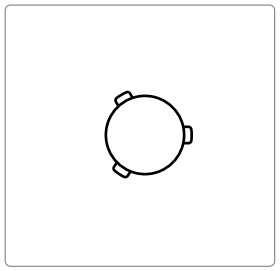
■ Adaptor / Power cable



■ Lock Key



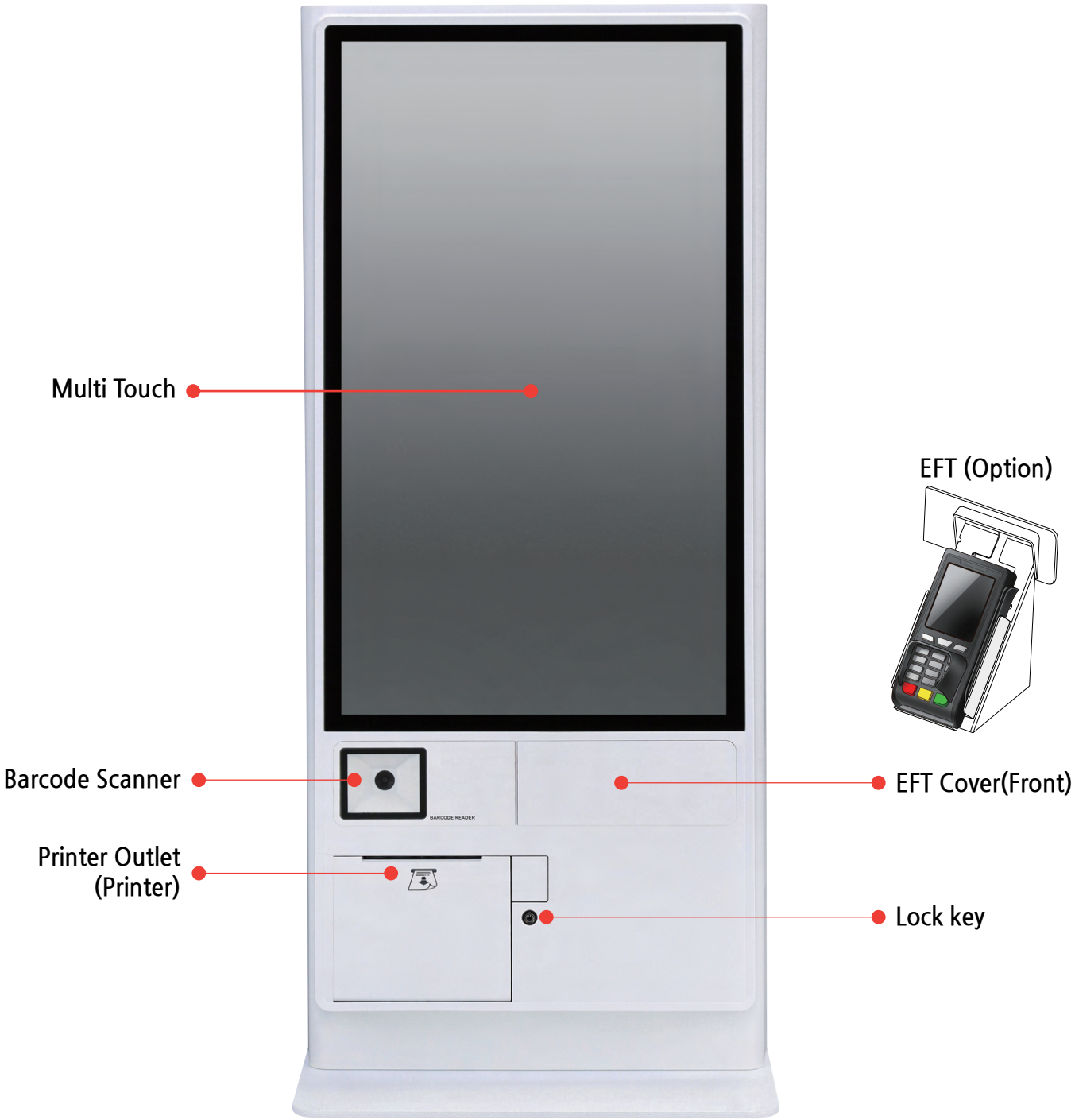
■ Cap Rubber



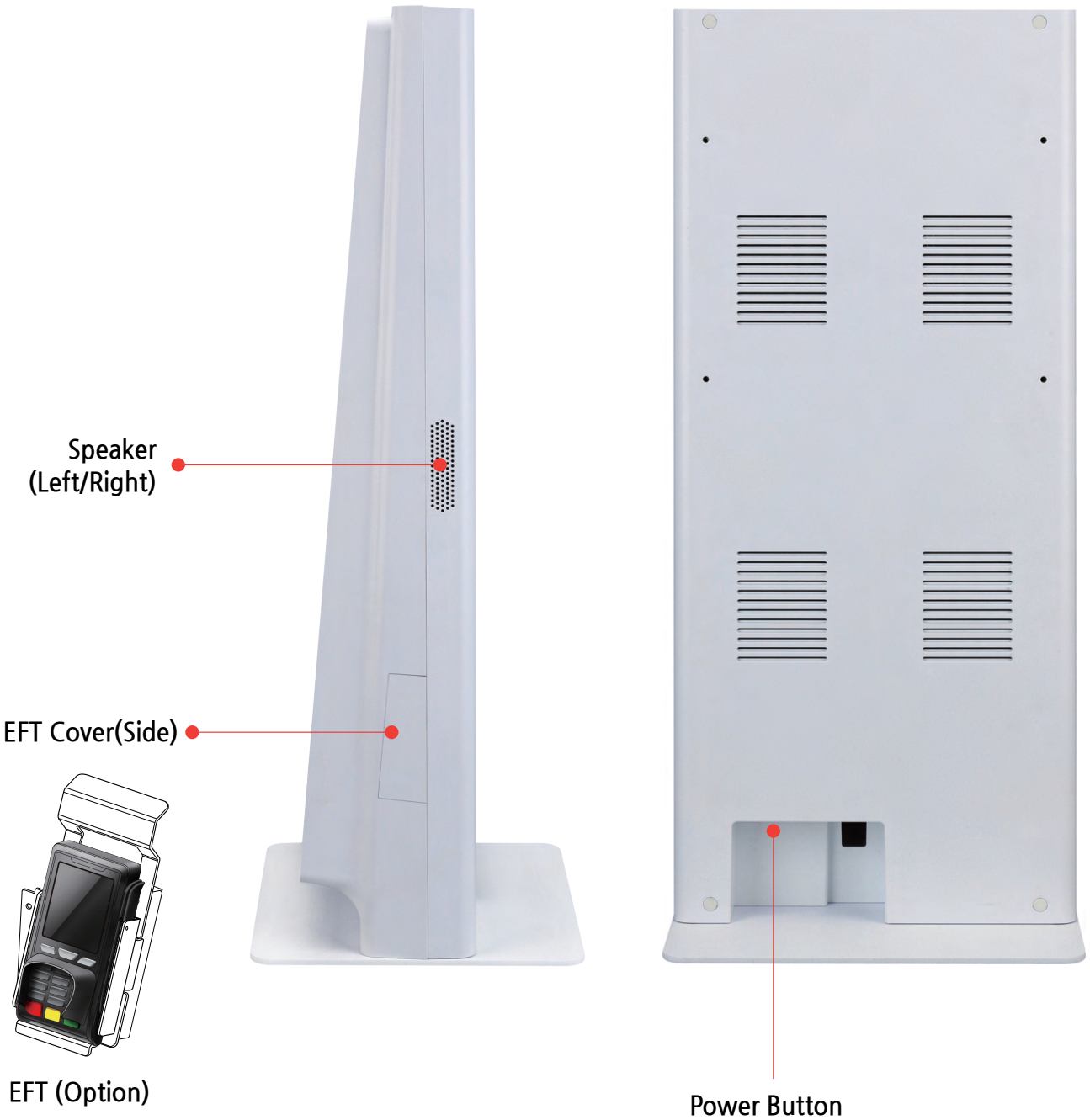
03. Specifications

Display	LCD		21.5inch (1920 X 1080 / FHD)
	Touch		10 Points support(PCAP)
System	CPU		RK3399 (Dual - Core ARM Cortex - A72 1.8GHz + Quad - Core ARM Cortex - A53 1.4GHz)
	Storage		64GB eMMC
	Memory		4GB LPDDR4
	OS		Android 9
	Audio		2 X 5.0W Speaker
	Printer		3 inch thermal printer with auto-cutter
	Power		Input AC 100 ~ 240V / 50 ~ 60Hz
I/O	Serial		5 Ports (additional option 1 port available)
	USB		4 Ports
	Ethernet		IEEE 802.3 10 / 100 / 1000 Ethernet
	External Display		1 Port
General	Dimension (mm) (W x D x H)		System : 334 x 275 x 776mm System with Stand : 400 x 380 x 1571mm
	Weight (Kg)		System : 15.5kg
Option	Barcode Scanner		2D
	Wi-Fi/BT		Wi-Fi : IEEE 802.11 a/b/g/n/ac BT 5.0 (optional)
	Stand	Dimension & Weight	400 x 380 x 803mm / 18.8kg
	EFT bracket		External Front Bracket / External Side Bracket (for payment terminal)

04. Name and Function of each component (Front View)

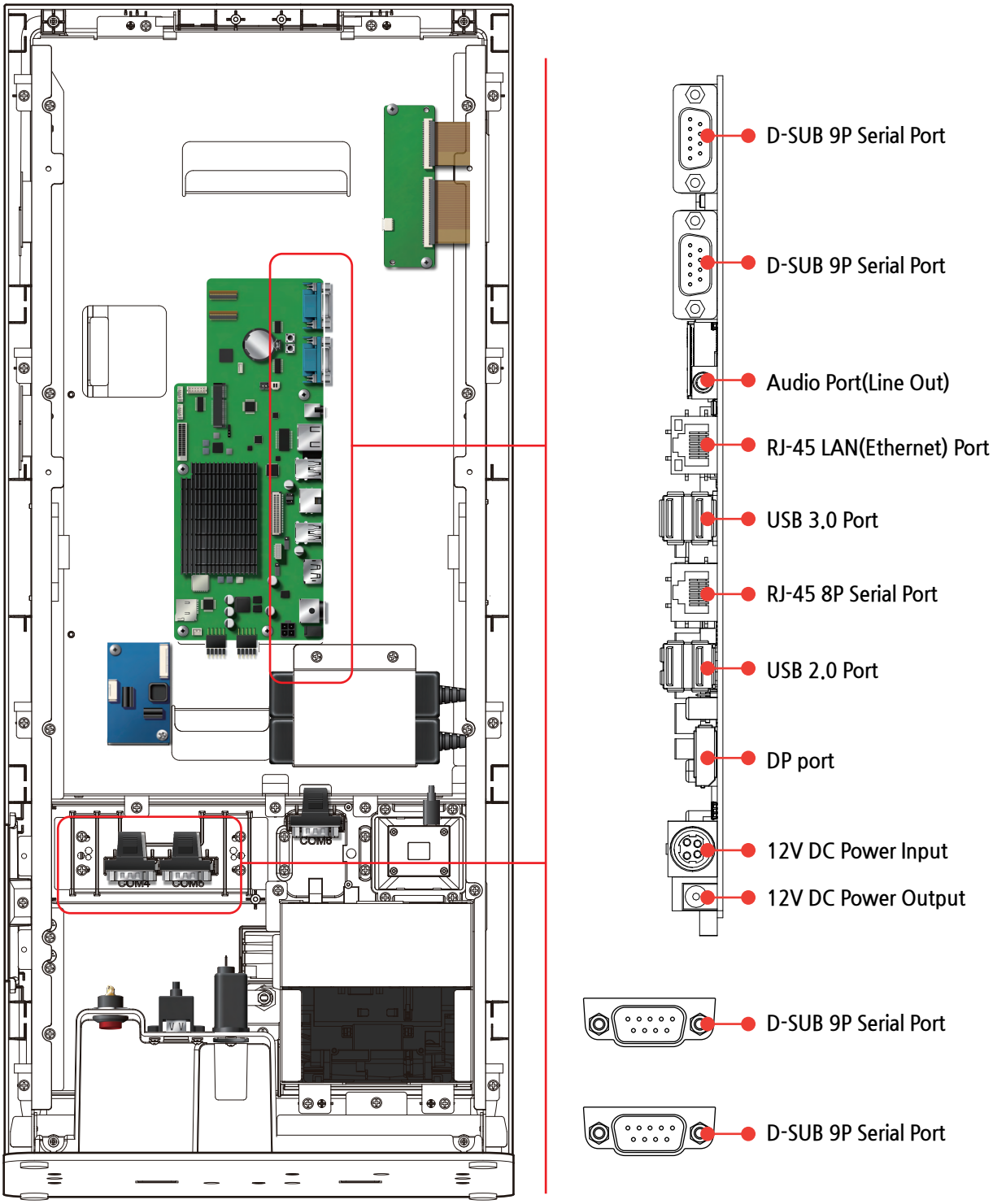


05. Name and Function of each component (Side/Rear View)



06. Name and Function of each component (I/O)

- Android

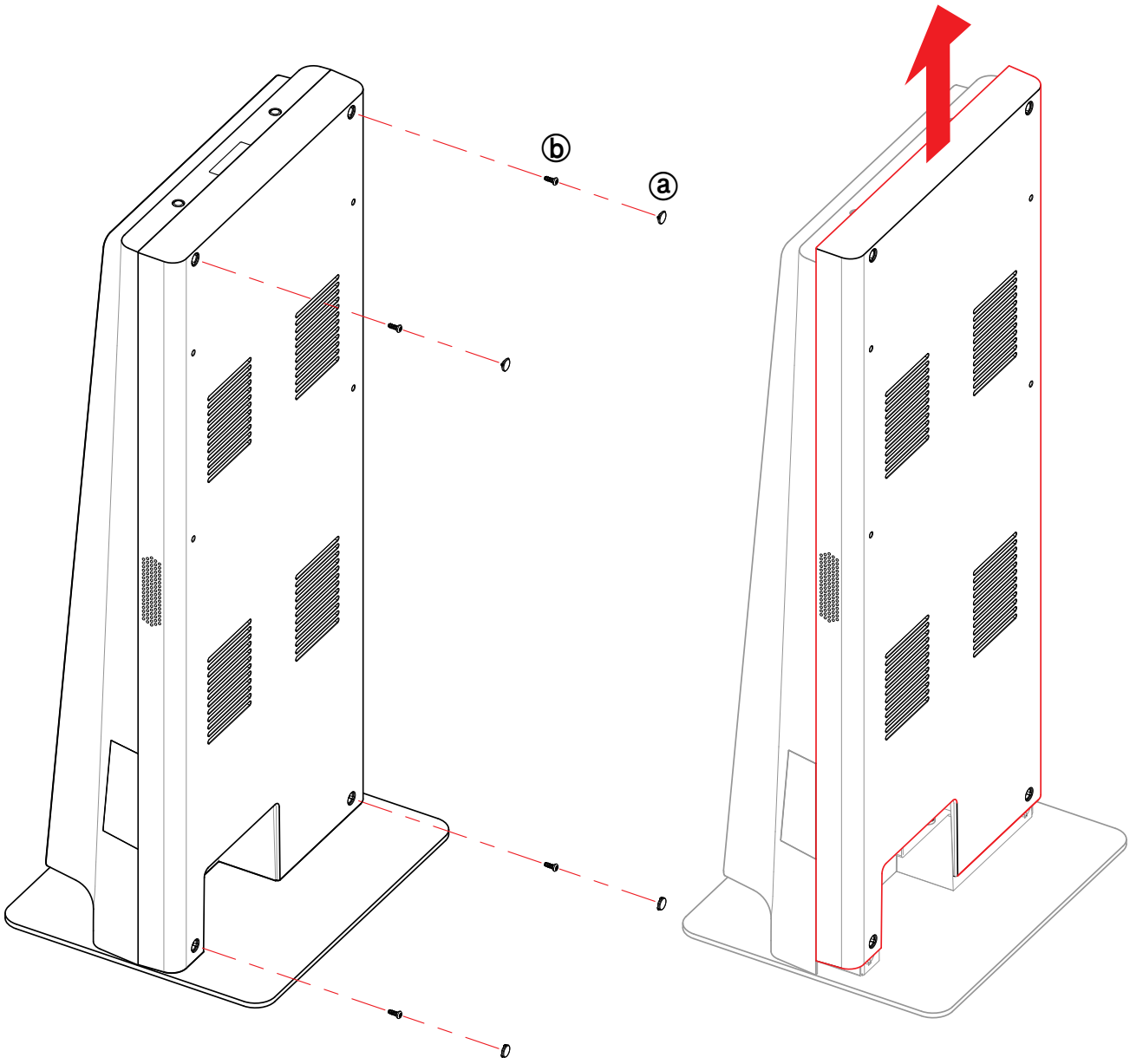


01. Open the Rear Cover

Remove the rubber cap(ⓐ) and screw(ⓑ) as shown in the picture and the "Rear Cover" in the direction of the arrow to connect the peripheral device cables.

Cautions

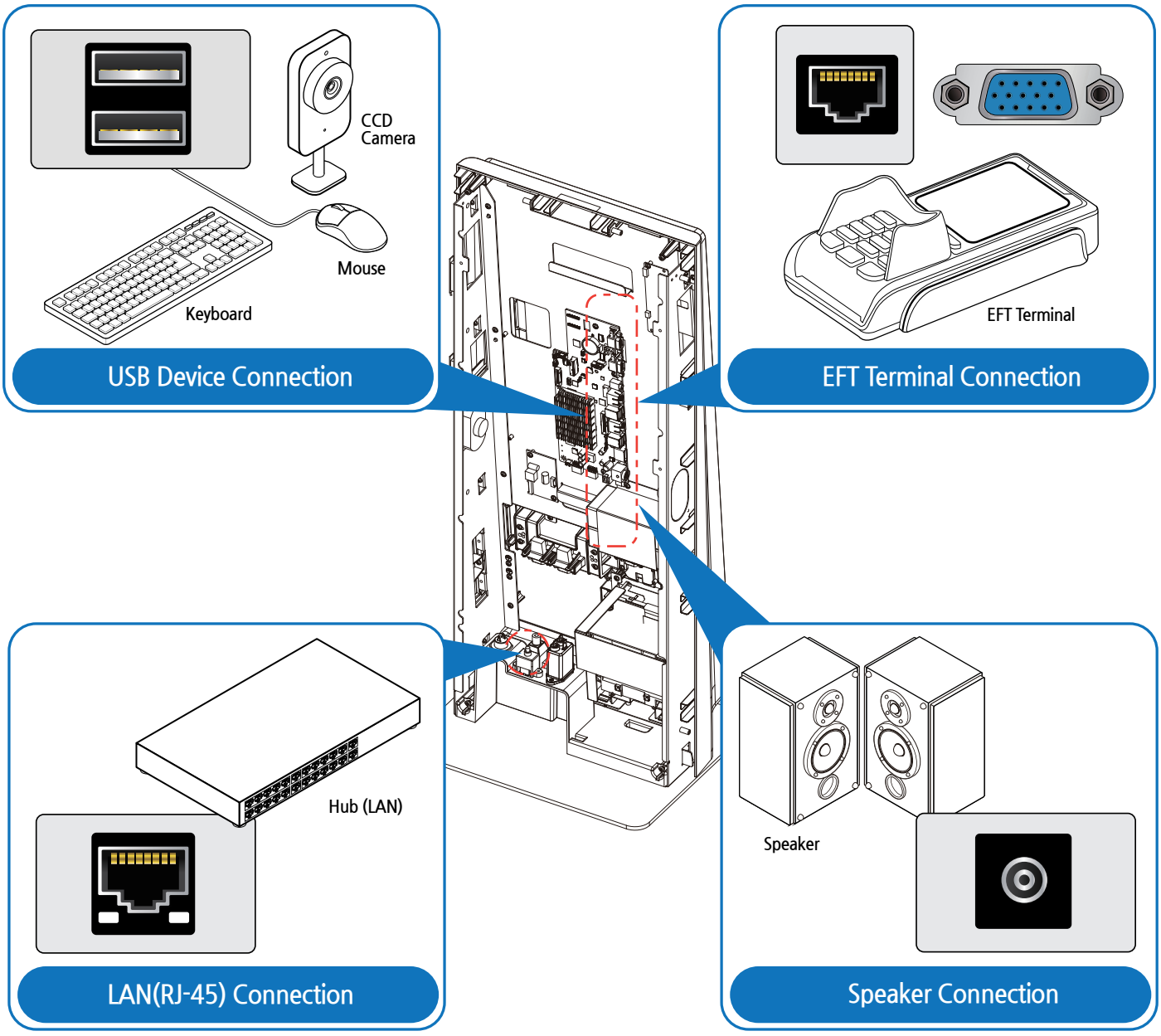
- When removing the cover, wear gloves to avoid damaging the edges of the device.



02. Connect Peripheral Devices

Cautions

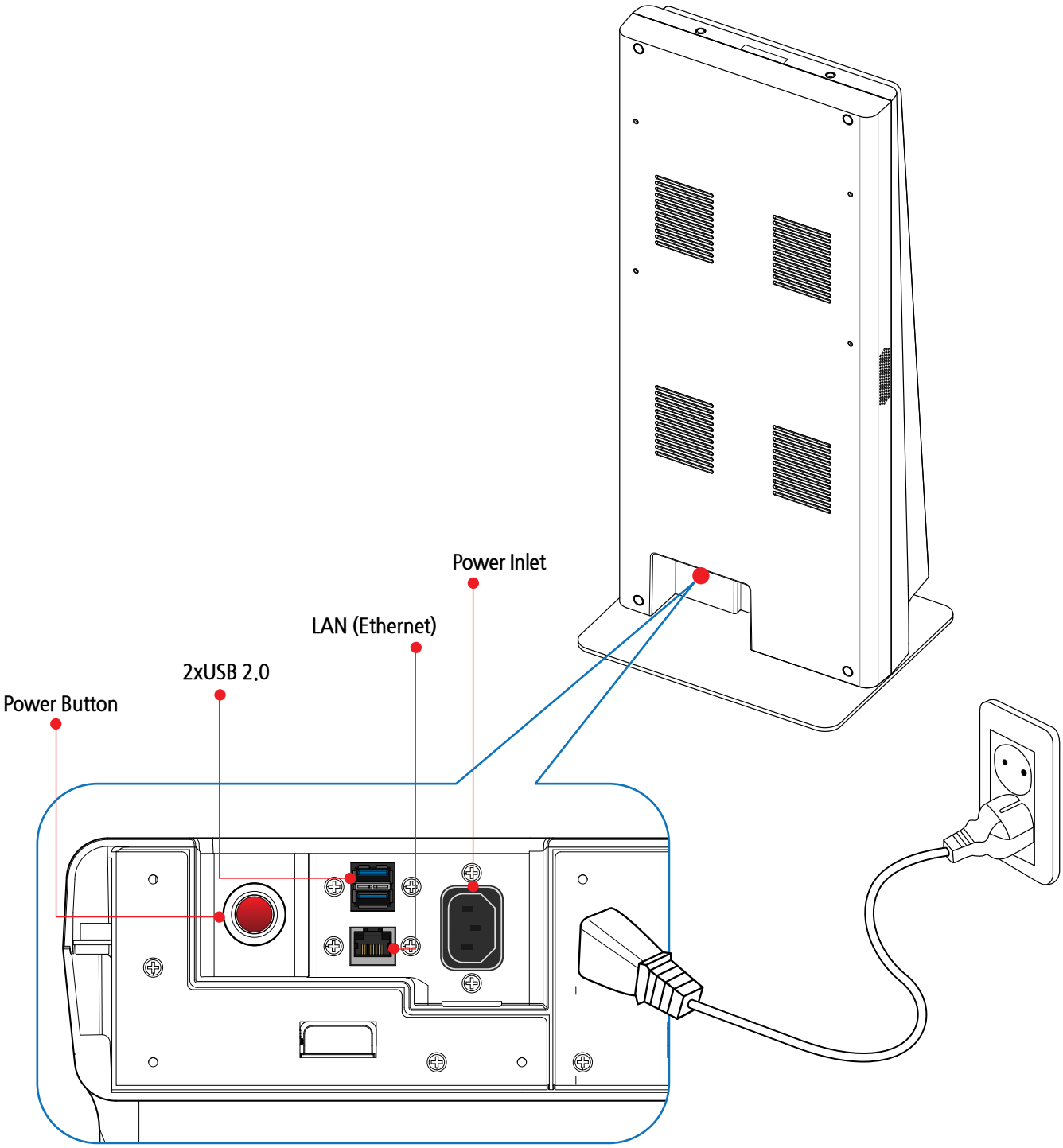
- Connect peripherals after turning off the device.
- Please use gloves to prevent injury from the edge of the equipment.
- Check the printed I/O specifications before connect peripheral cables.



03. Connect Power Cable

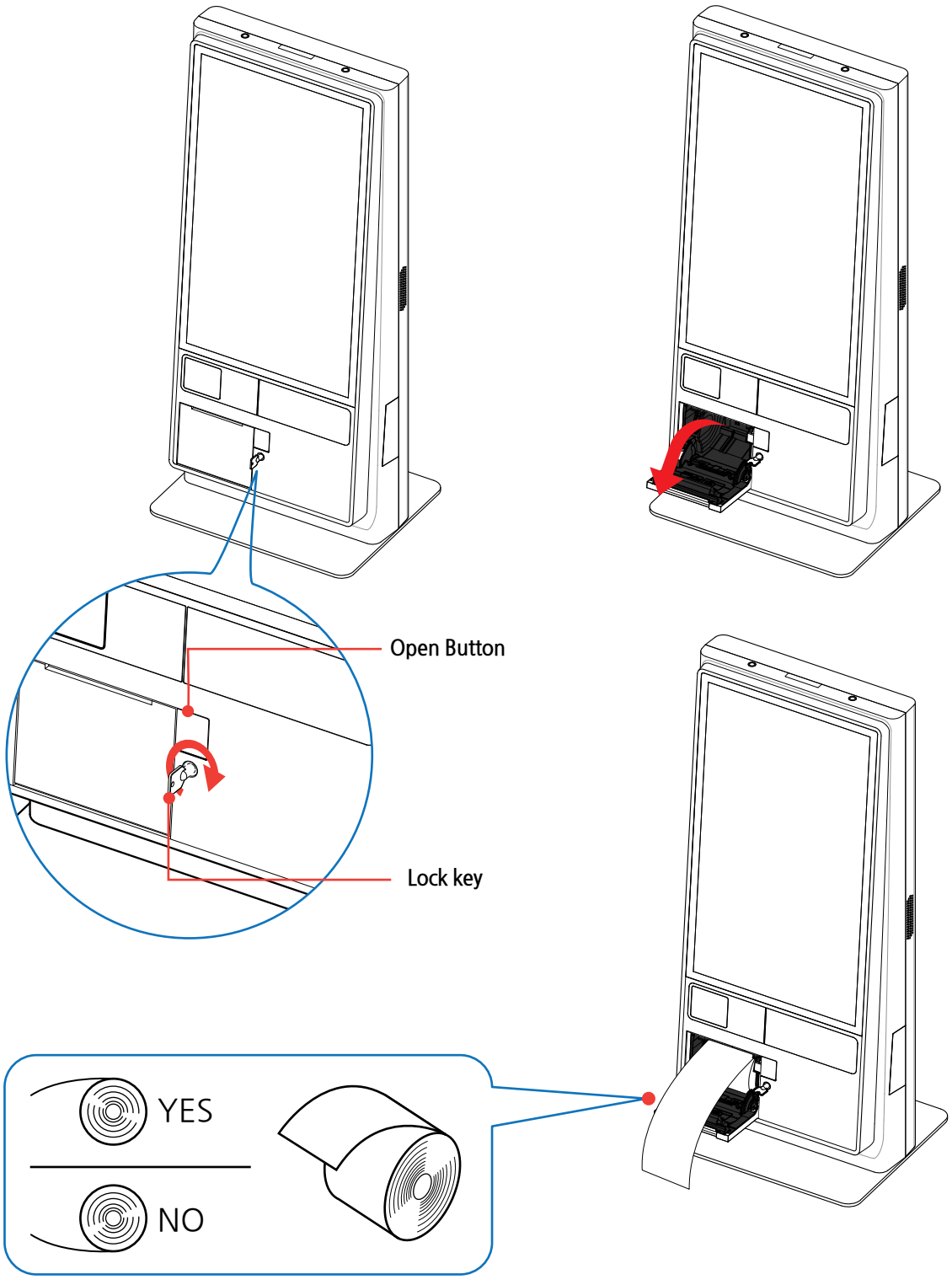
- Connecting AC power supply cable

  Connect the AC power cable to the AC power input connector at the bottom of the system.
  (Adapter 100V - 220V free voltage of the system can be used.)



04. Printer Usage

1. Turn the lock key clockwise.
2. Press the open button to open the cover and remove the core of the roll paper.
3. Pay attention to the direction when loading paper. (Refer to the picture)
4. After pulling out a small of paper, close the cover and cut the protruding paper.

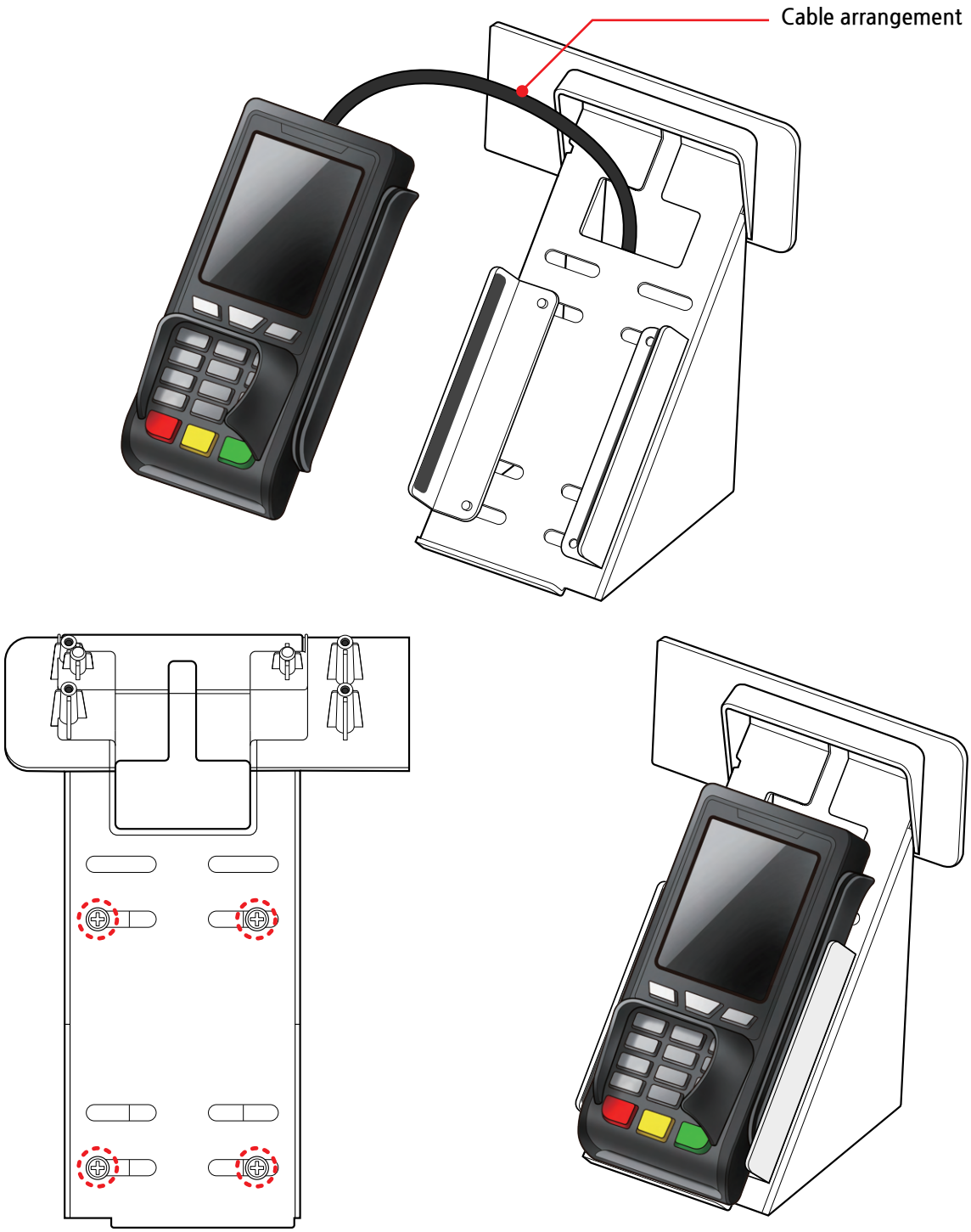


01. EFT Terminal (Front)

Note

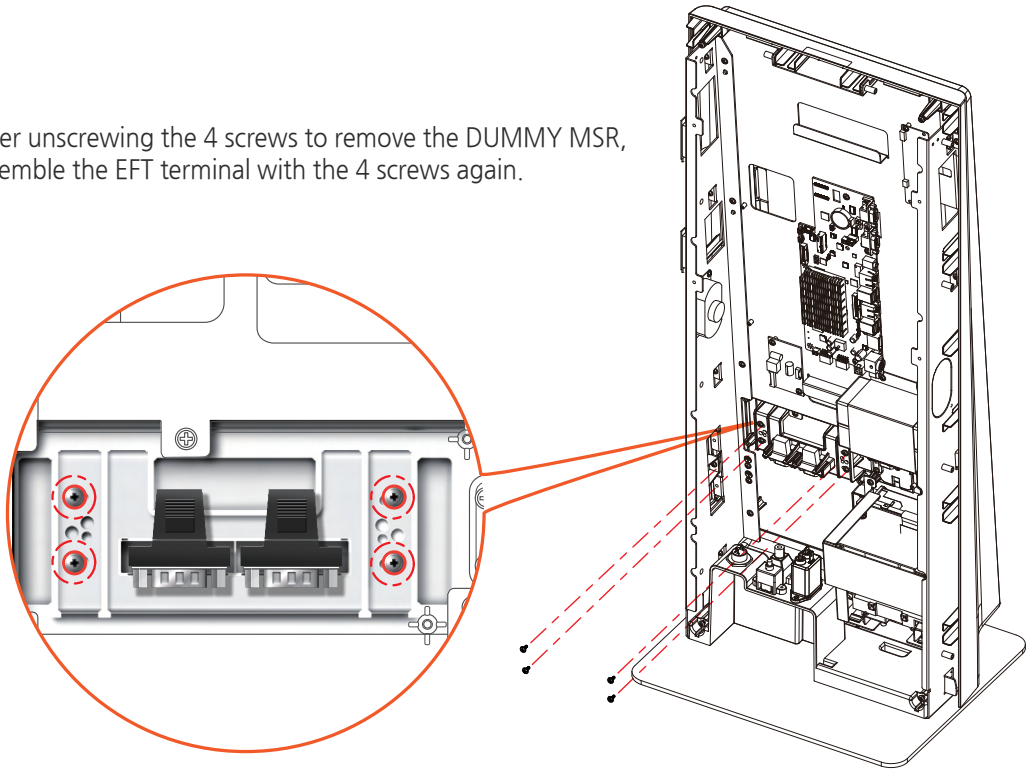
Please refer to Part2. 01. Open the Rear Cover to remove the "Rear Cover"

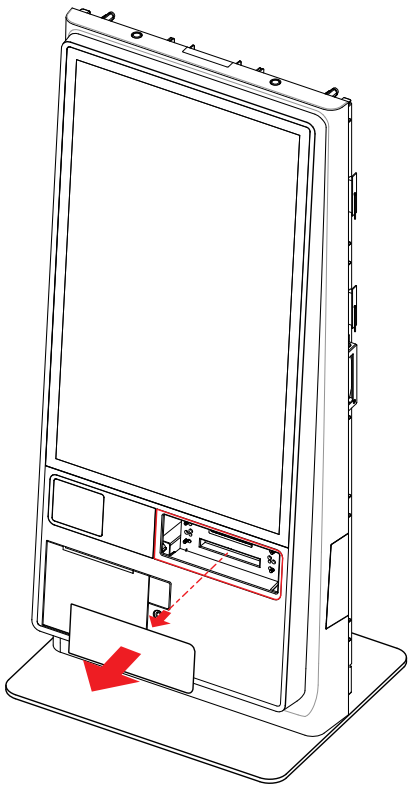
After arranging the cables of the EFT terminal, adjust the positions of the 4 screws to fix the terminal firmly.

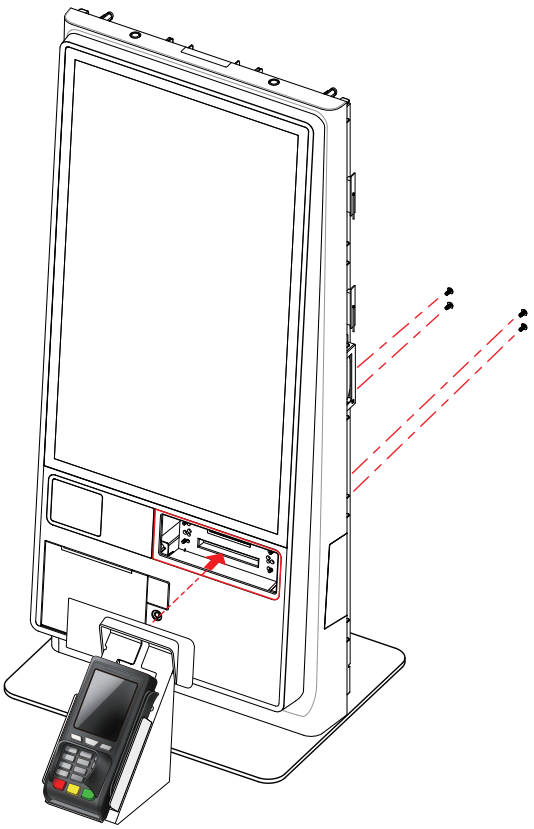


01. EFT Terminal (Front)

After unscrewing the 4 screws to remove the DUMMY MSR, assemble the EFT terminal with the 4 screws again.

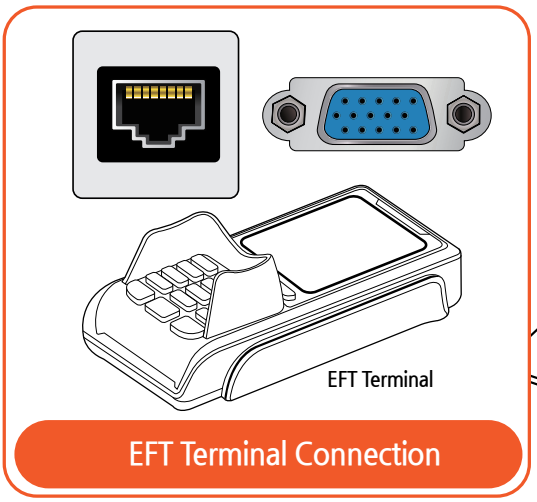






01. EFT Terminal (Front)

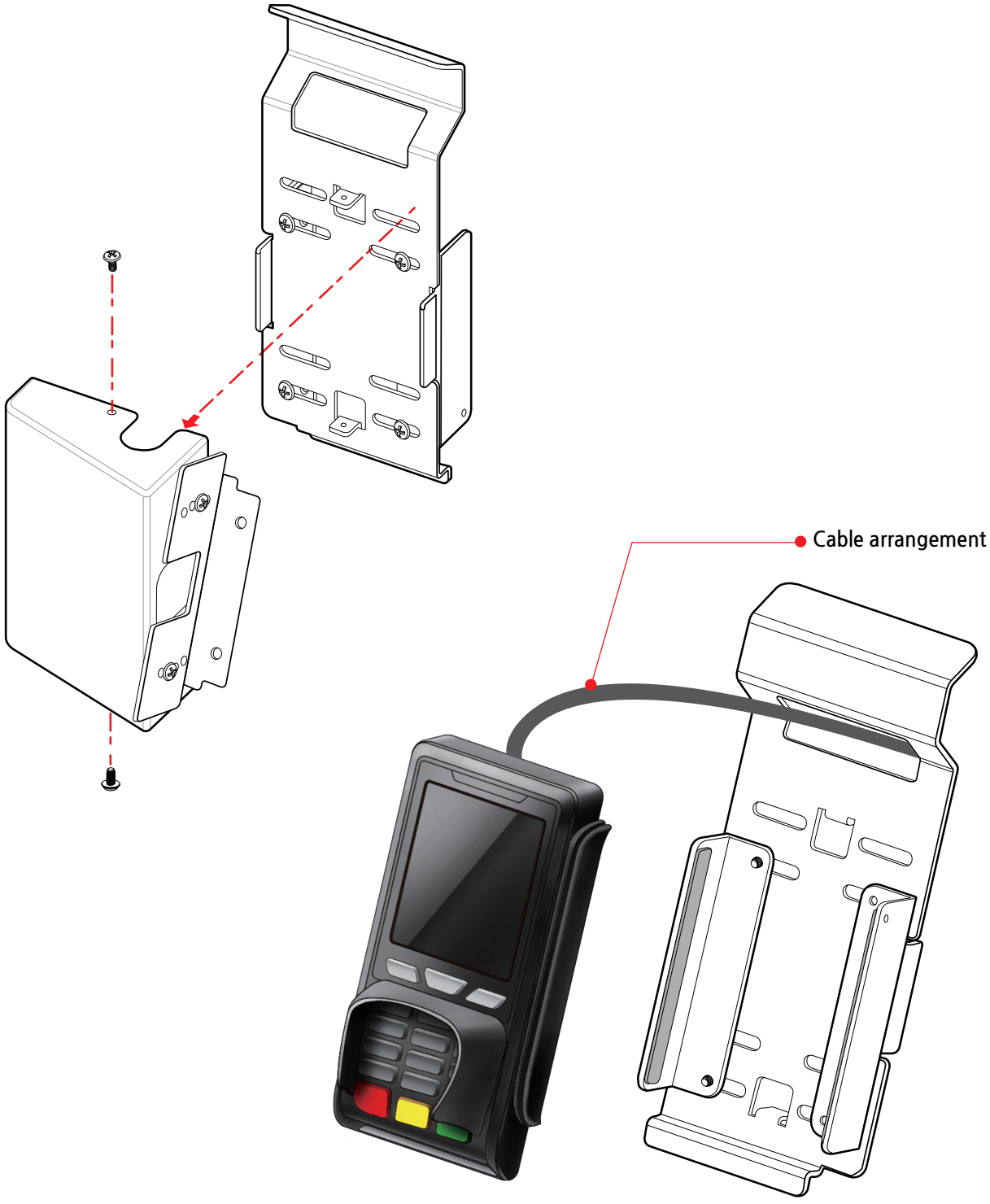
Connect the EFT terminal cable to the I/F of the system and close the COVER REAR.



EFT Terminal Connection

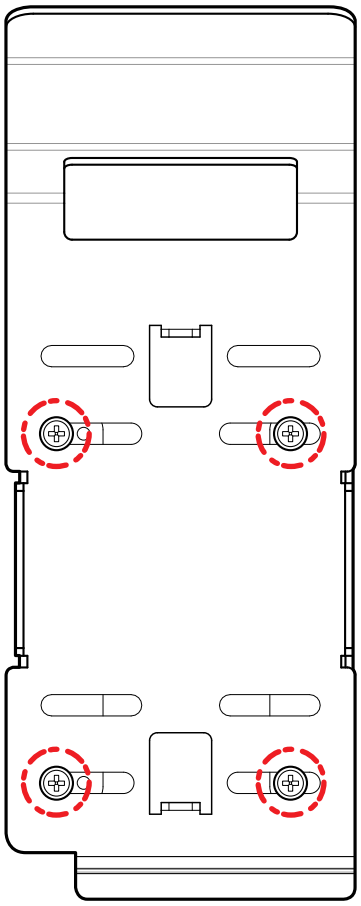
02. EFT Terminal (Side)

Remove the COVER EFT by unscrewing the two screws, arrange the cables of the EFT terminal



02. EFT Terminal (Side)

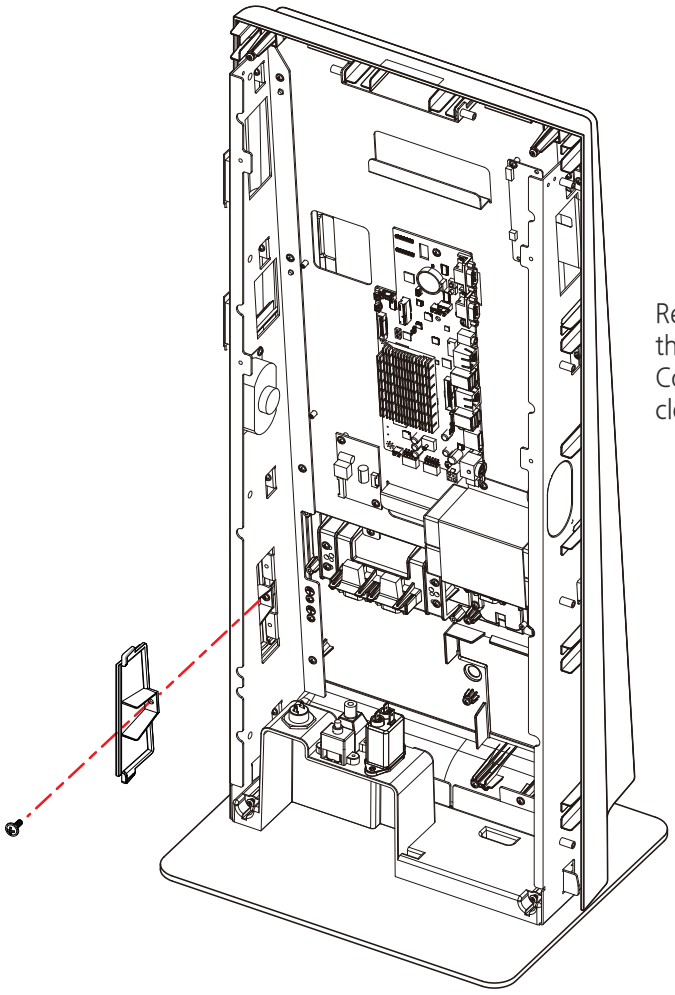
Adjust the position of the four screws to fix the terminal firmly, and assemble the cover EFT with the two screws.



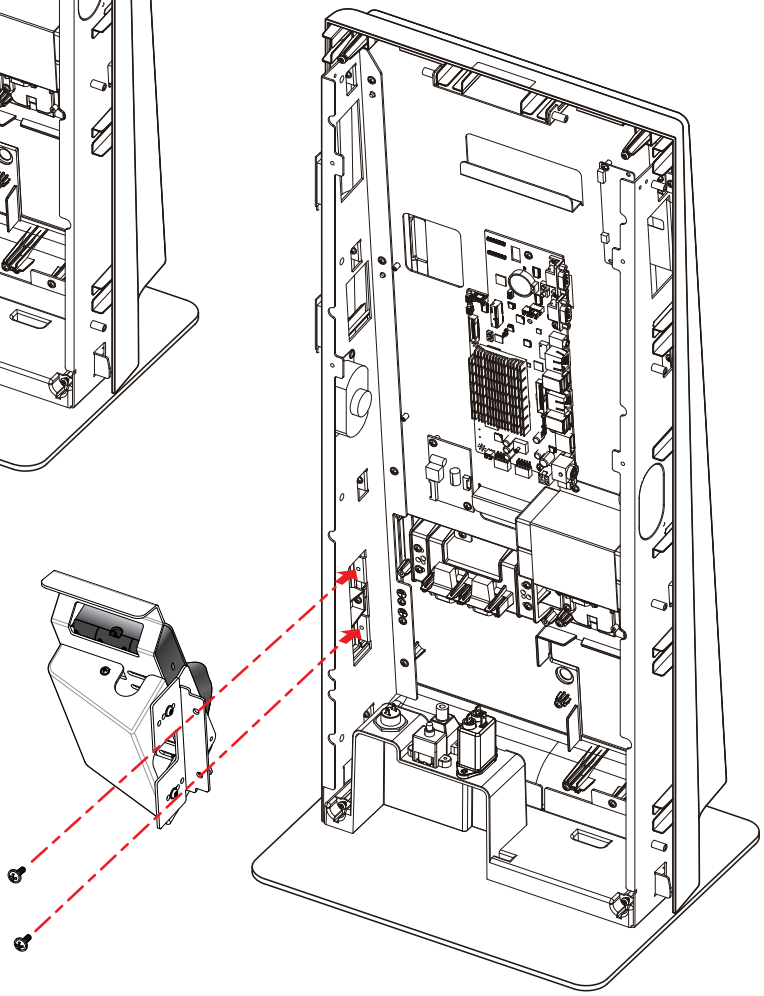
02. EFT Terminal (Side)

Note

Please refer to Part2. 01. Open the Rear Cover to remove the "Rear Cover"



Remove DUMMY EFT by unscrewing a screw and assemble the EFT terminal with two screws.
Connect the EFT terminal cable to the I/F of the system and close the COVER REAR.



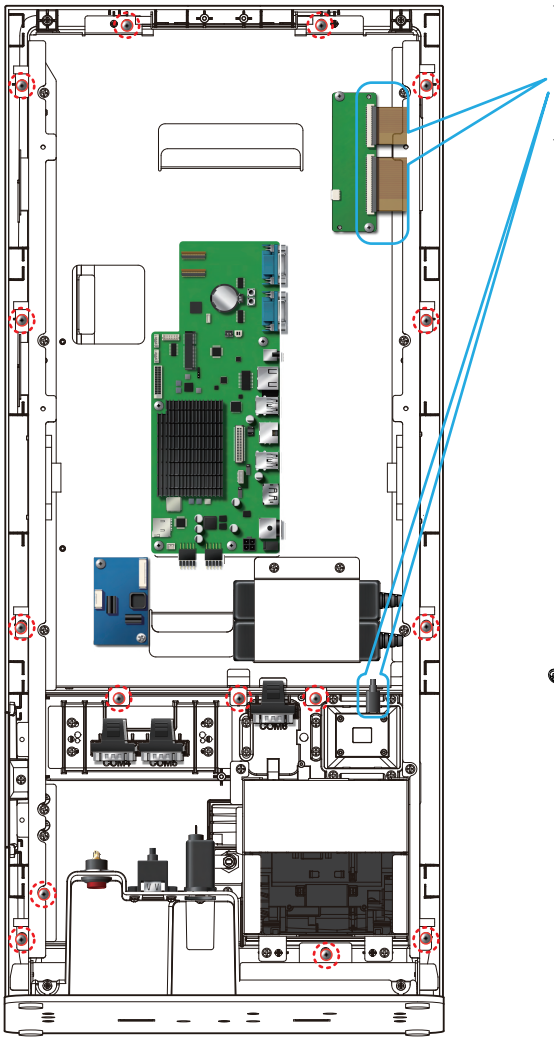
02. EFT Terminal (Side)

Remove DUMMY EFT by unscrewing a screw and assemble the EFT terminal with two screws.
Connect the EFT terminal cable to the I/F of the system and close the Rear Cover.

03. LCD

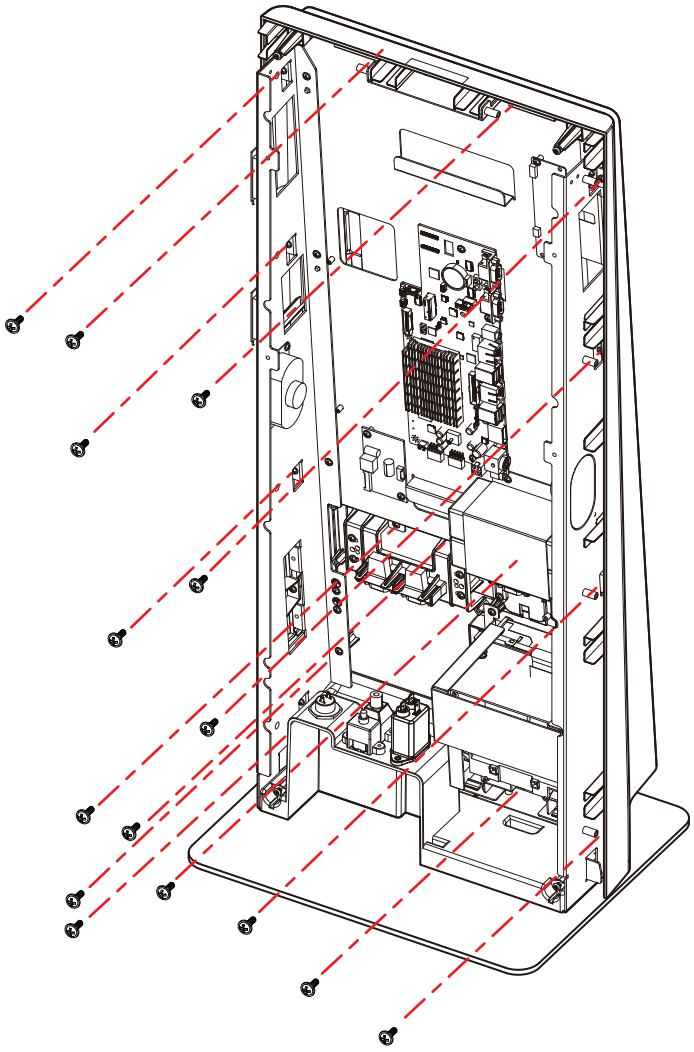
Note

Please refer to Part2. 01. Open the Rear Cover to remove the "Rear Cover"



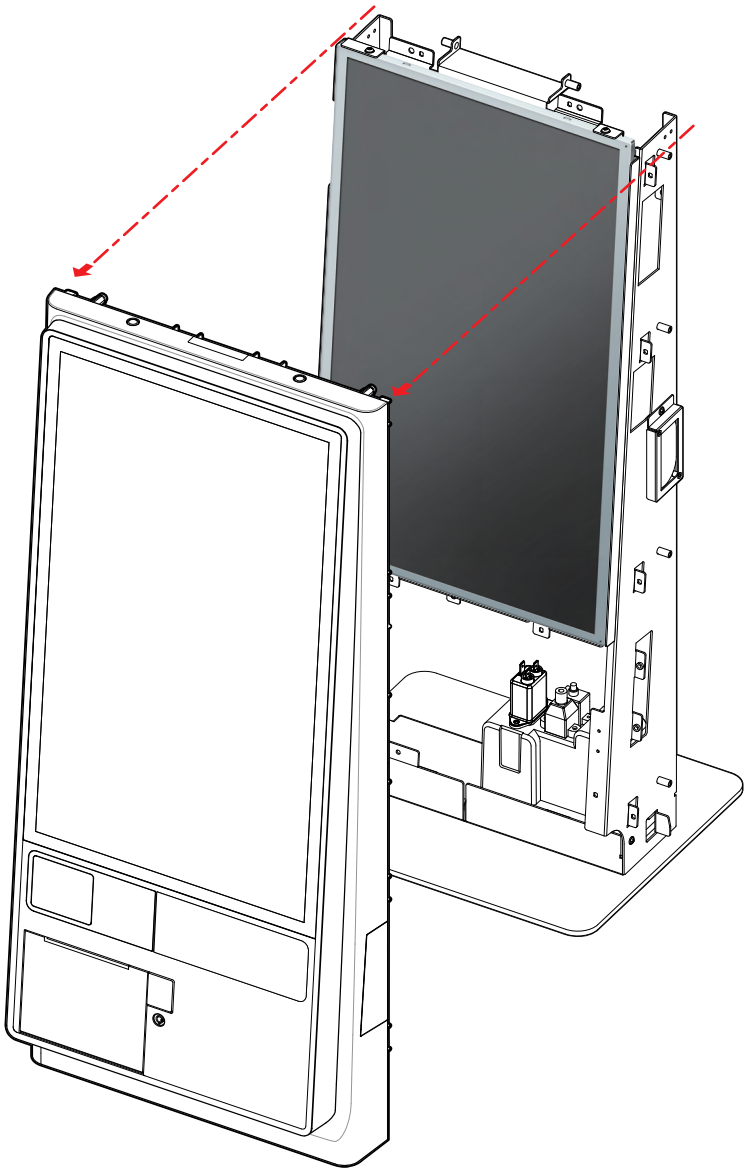
Cautions

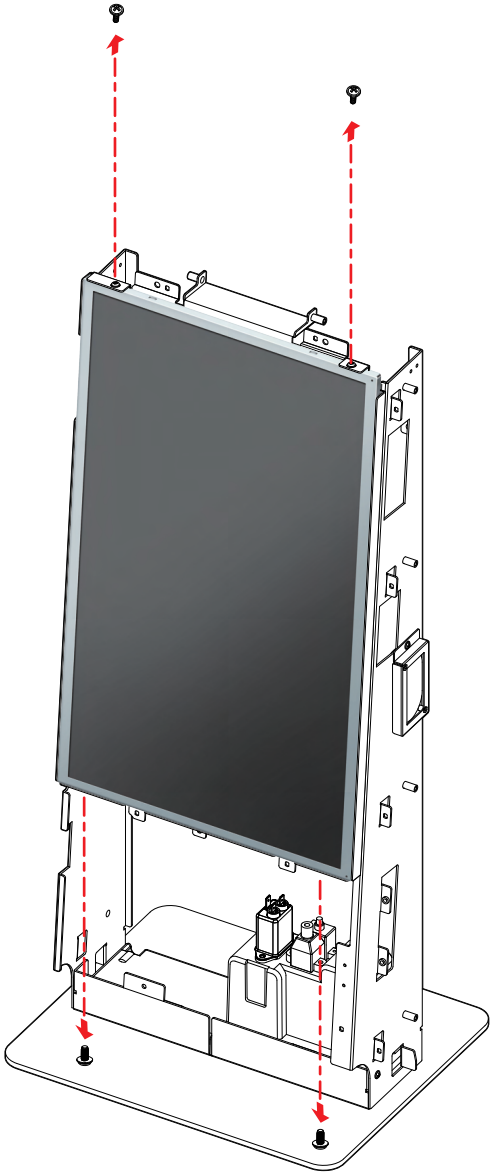
- Disassemble the screws after separating the TOUCH FPC and SCANNER CABLE from the set.



03. LCD

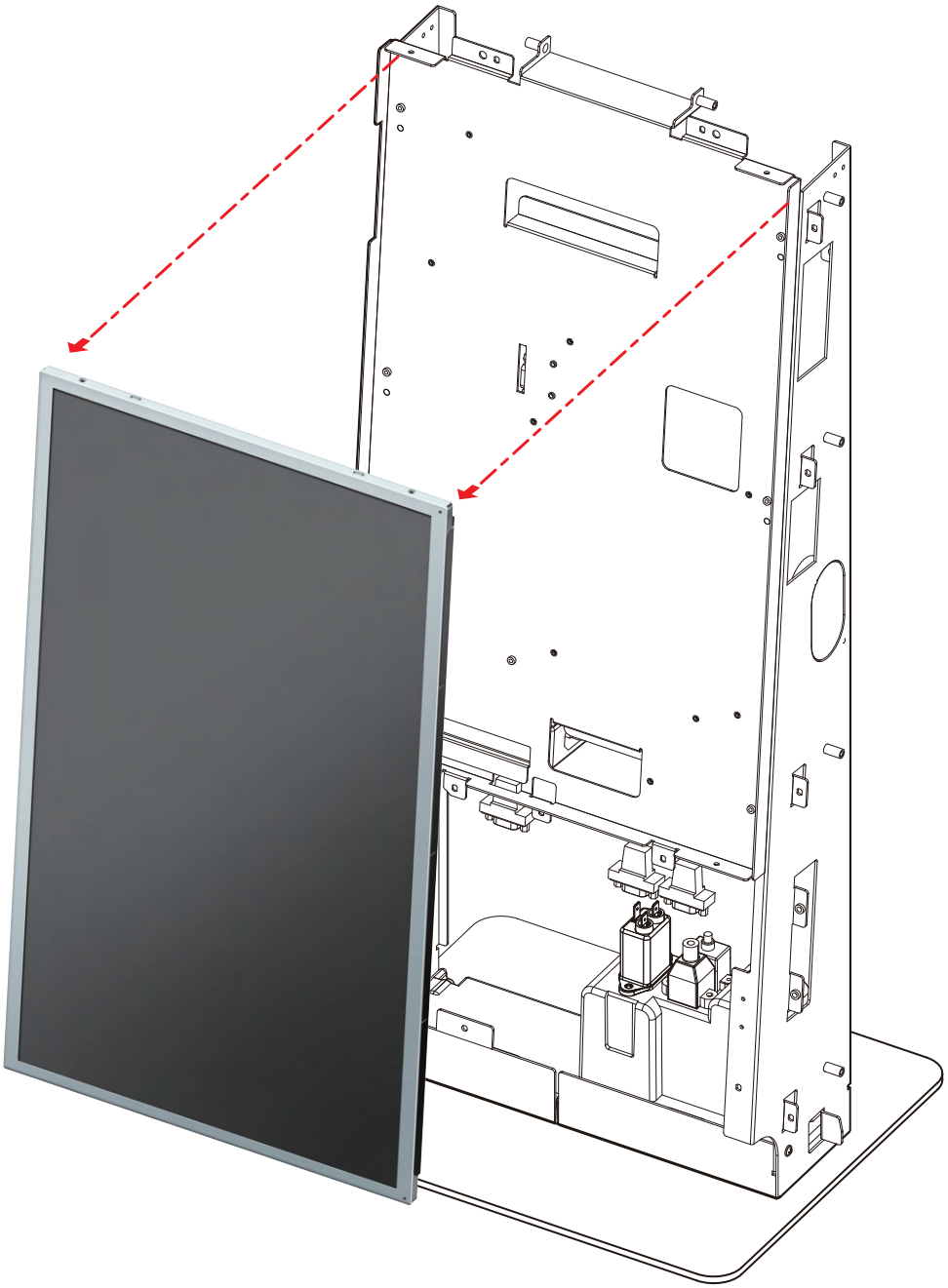
After separating the touch fpc and the scanner cable from the set, unscrew fifteen screws and remove the MAIN BODY ASSY.





03. LCD

Unscrew four screws and remove the LCD.

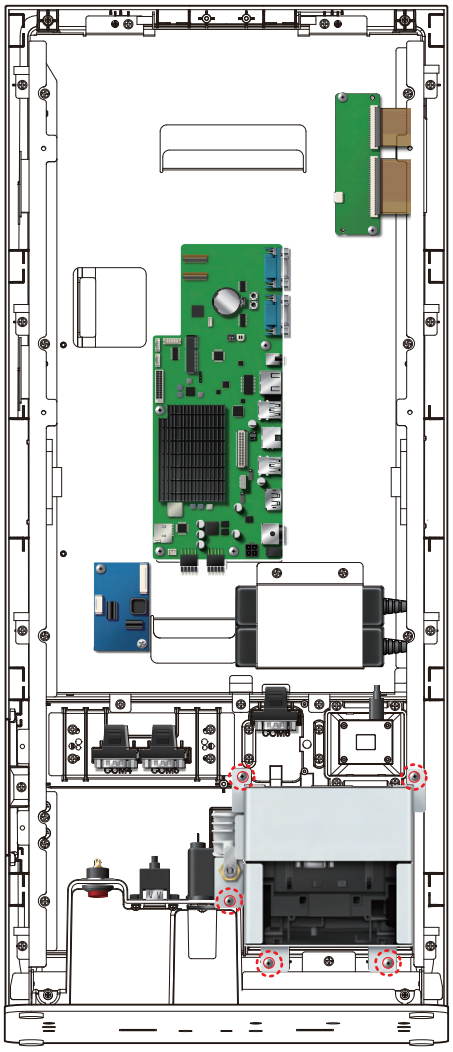


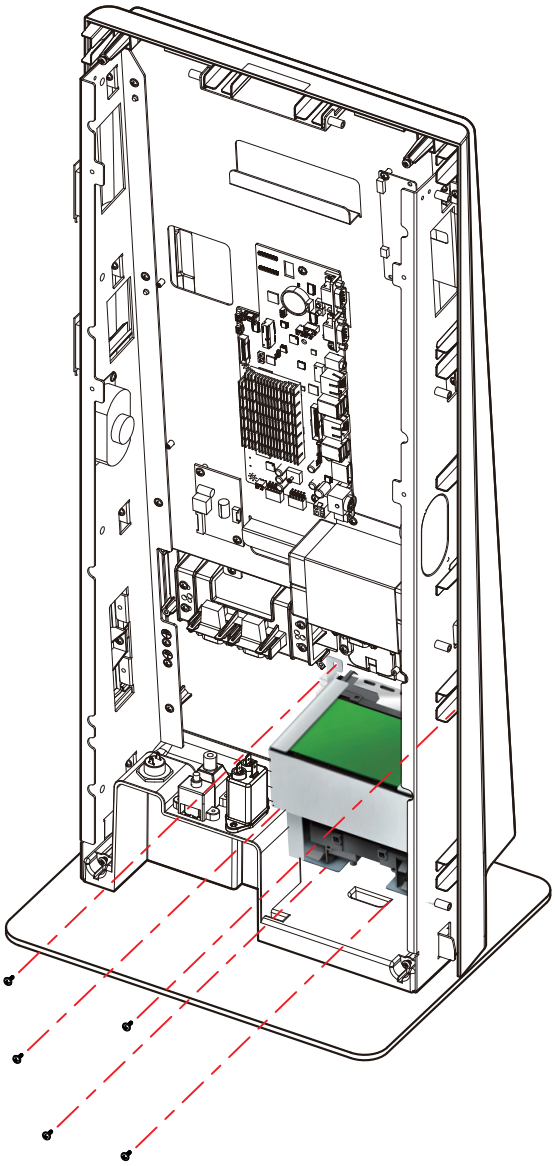
04. Printer

Note

Please refer to Part2. 01. Open the Rear Cover to remove the "Rear Cover"

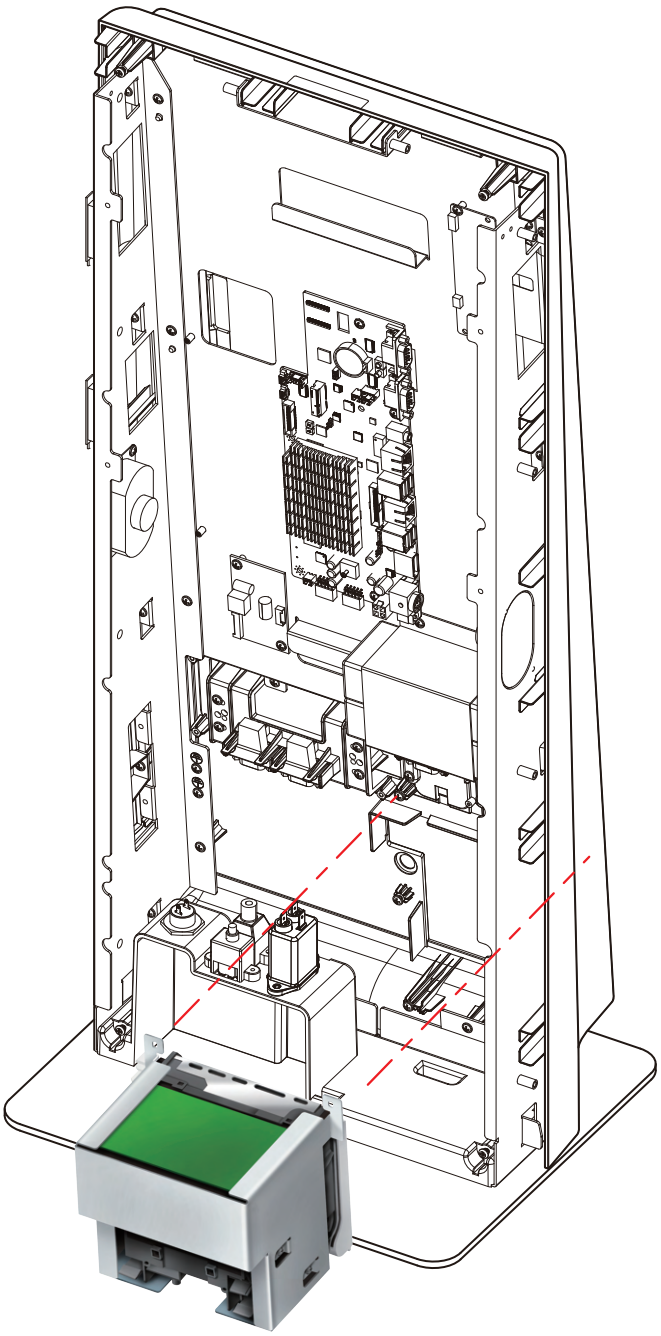
After separating the printer cable from the set, unscrew five screws.





04. Printer

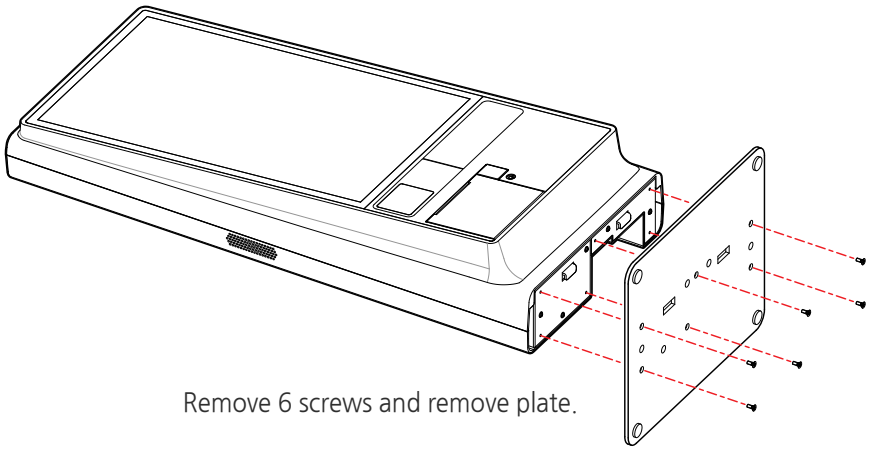
Remove the printer.



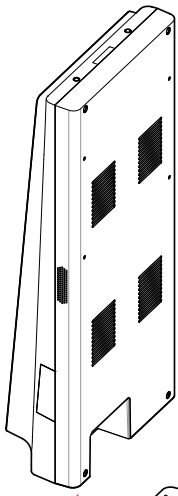
05. Stand

Cautions

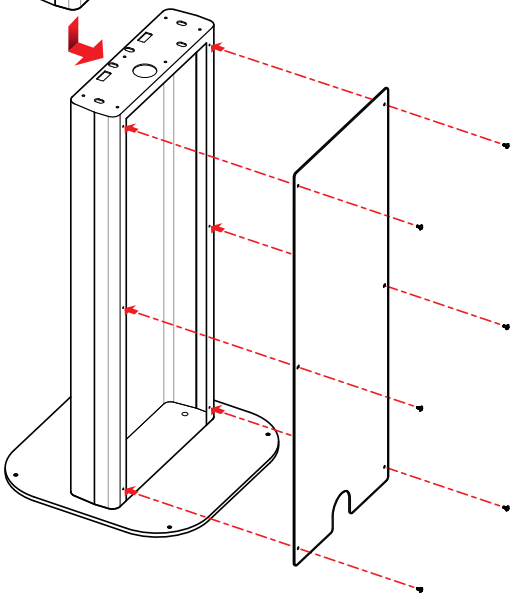
- For the safety of this product, the floor must be It must be installed on a flat surface.
- The stand must be anchored (screw) Secure it firmly so that it does not move or fall.

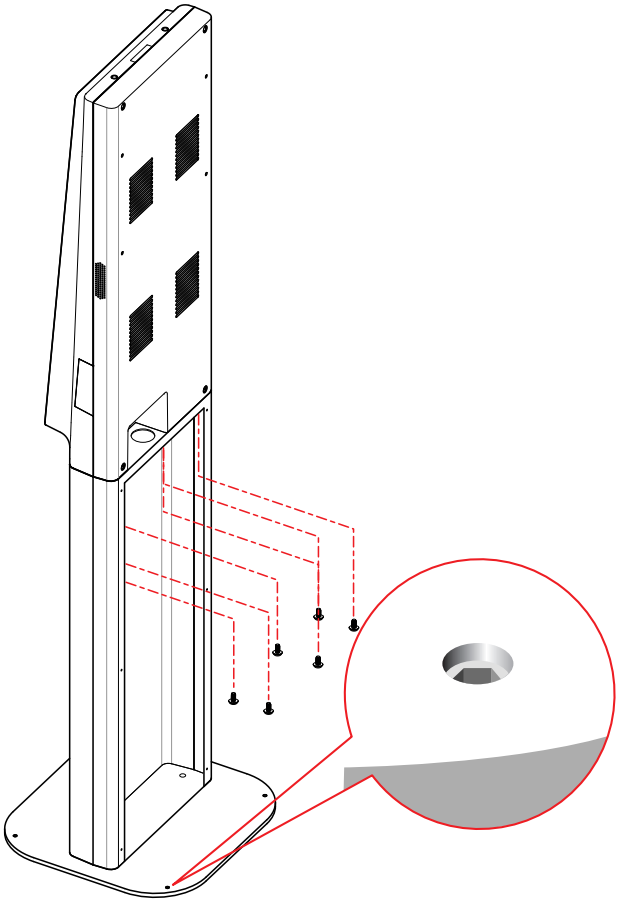


Remove 6 screws and remove plate.



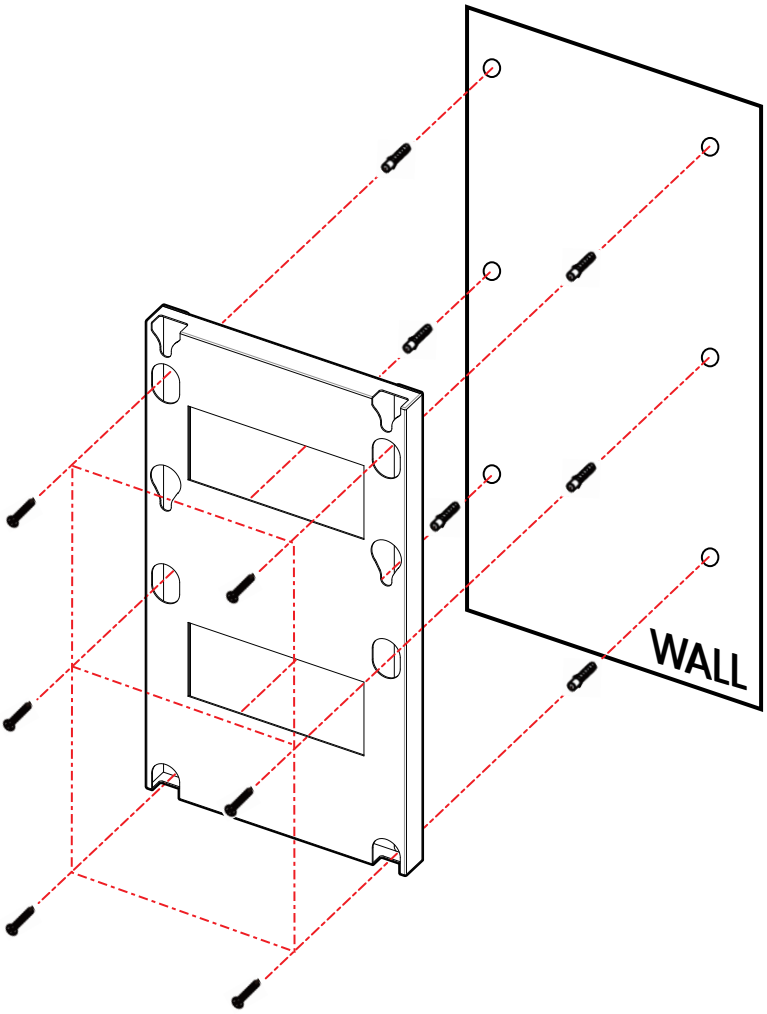
Remove 6 screws and remove cover.
Assemble the kiosk body to the stand in the direction of the arrow.





Assemble 6 screws to fix the body to the stand and assemble the cover.
(If not level, adjust the height of the 4 bolts)

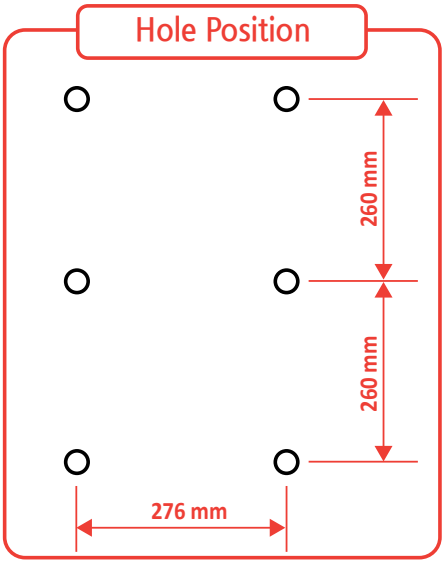
06. Wall Mount

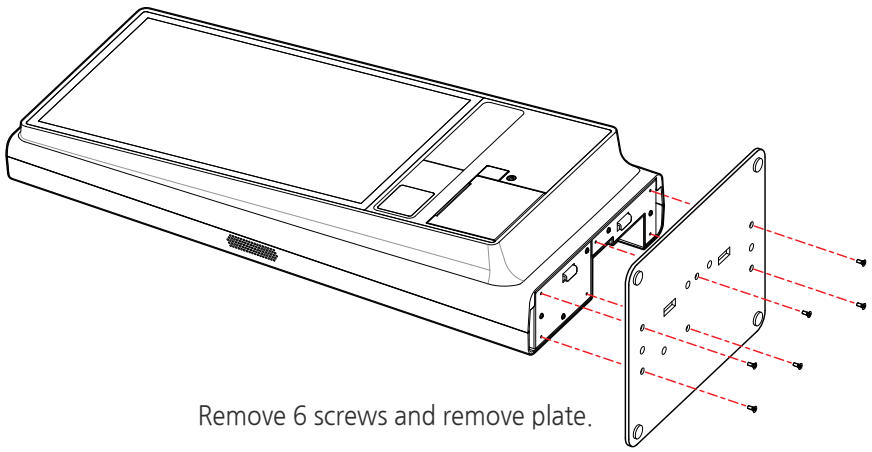


① Mark on wall where parts are installed.

② Drill hole with 8.5mm external diameter and 60mm deep.
After drilling, insert the 6 included anchors into the hole.

③ Secure the bracket to the anchor of the wall mount hole with the included screw.



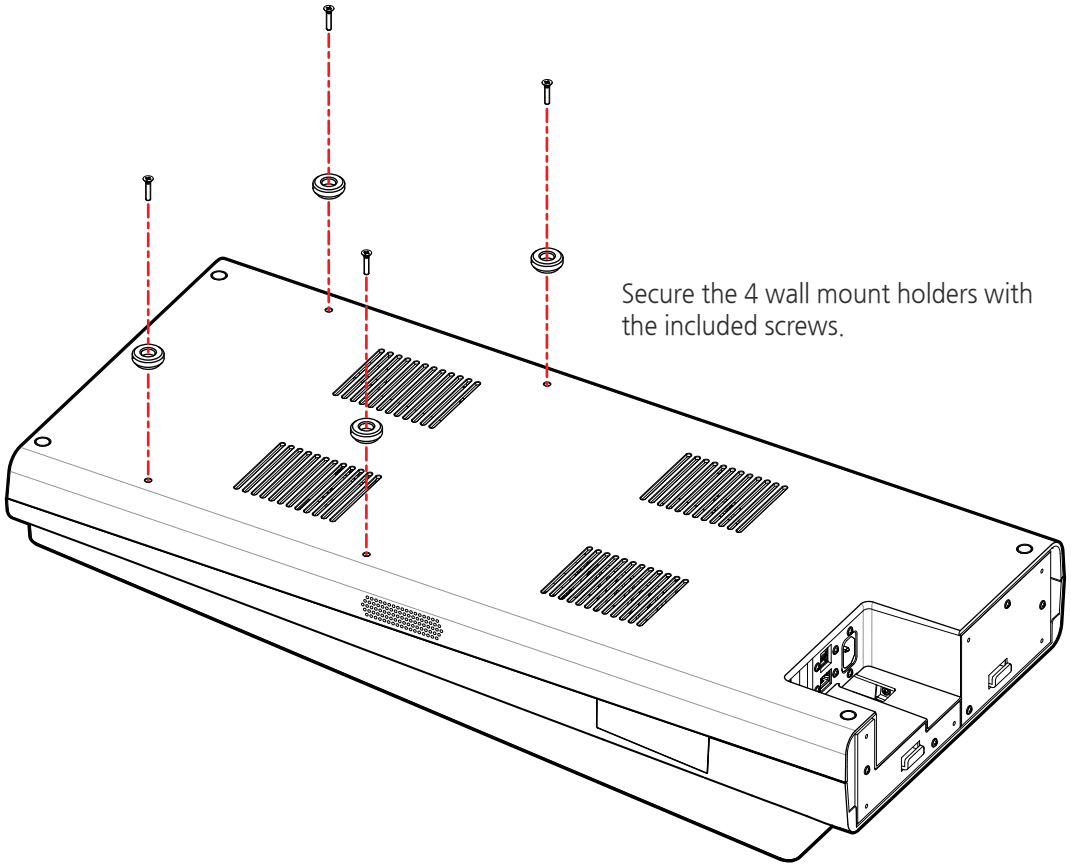


Remove 6 screws and remove plate.

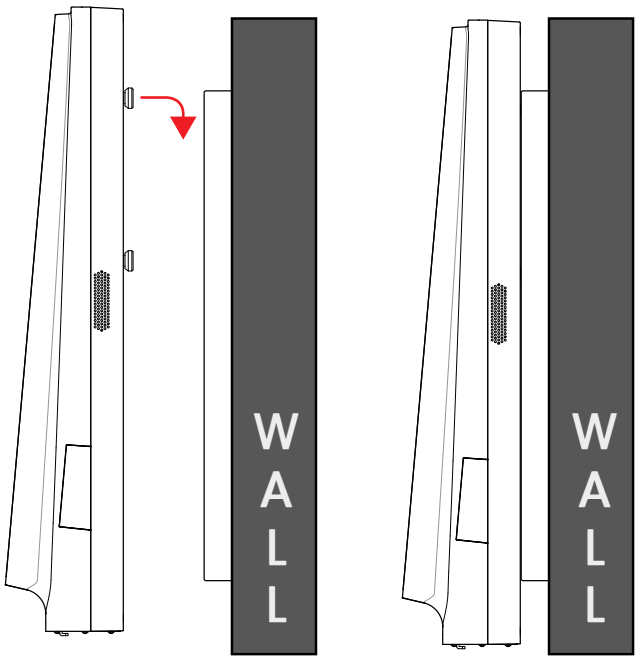
06. Wall Mount

Cautions

- After connecting the cables, install the wall mount.
- After installing the wall mount, be sure to check that it is securely fixed.



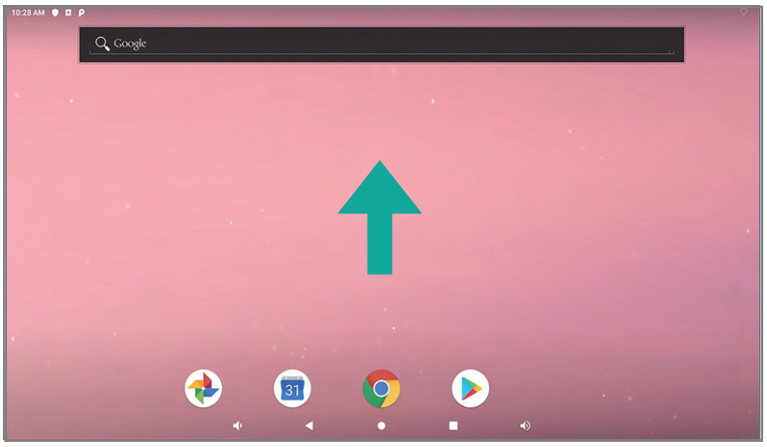
Secure the 4 wall mount holders with the included screws.



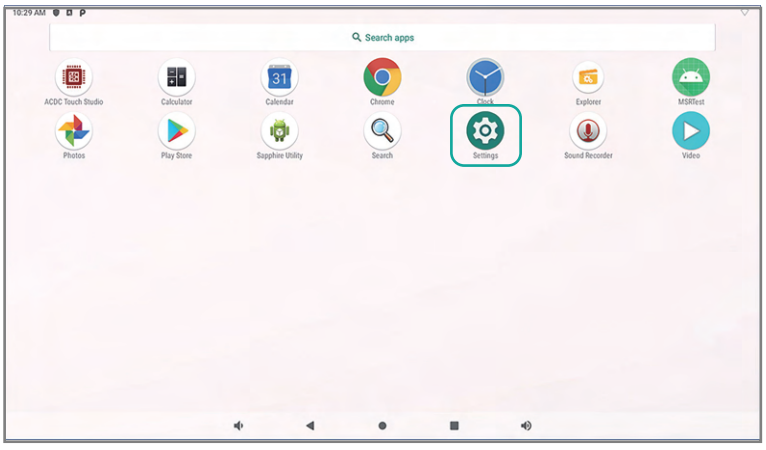
Fix the kiosk body by inserting it into the bracket fixed to the wall in the direction of the arrow.

Appendix A. Android Settings

From your Home screen, swipe up from anywhere above the search bar.



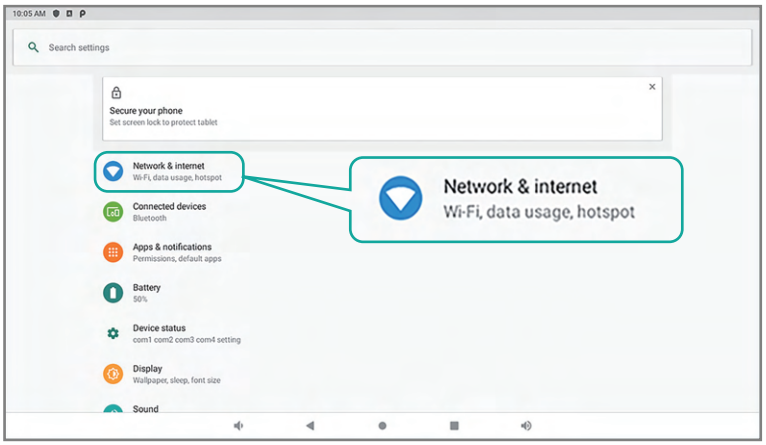
You'll see all your apps listed in alphabetical order, then select Settings.



Appendix A. Android Settings

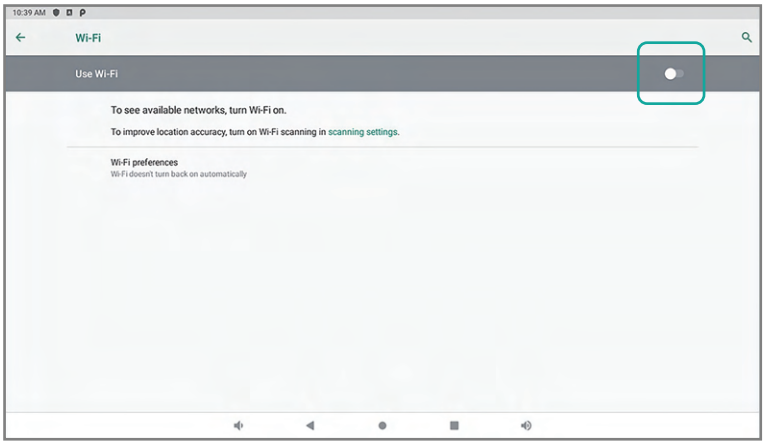
01. Wi-Fi

1. Touch the "Network & internet".



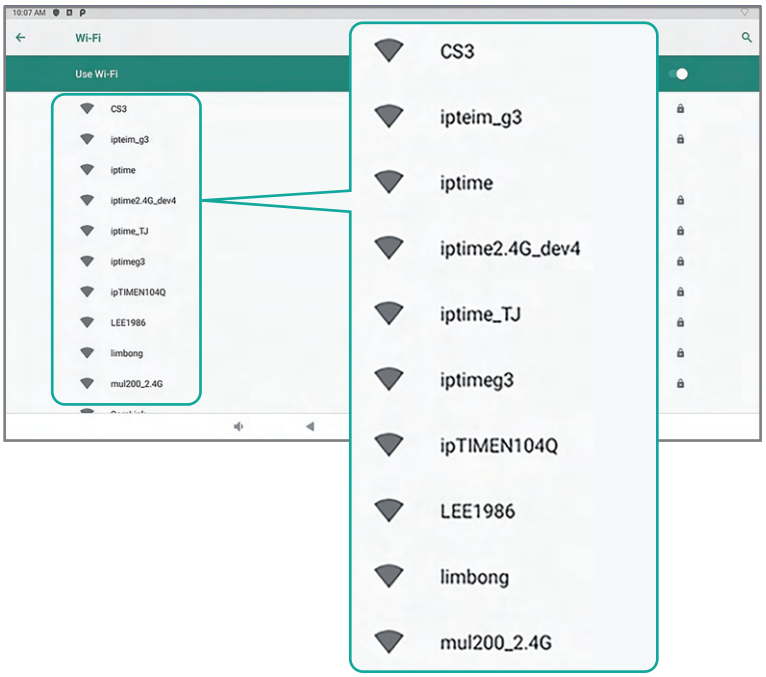
2. Touch the "Wi-Fi".

3. Turn on the Wi-Fi switch.

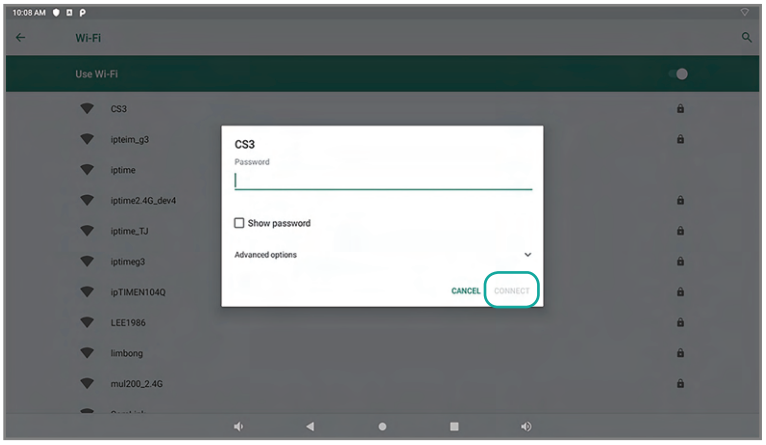


01. Wi-Fi

4. Select your router.



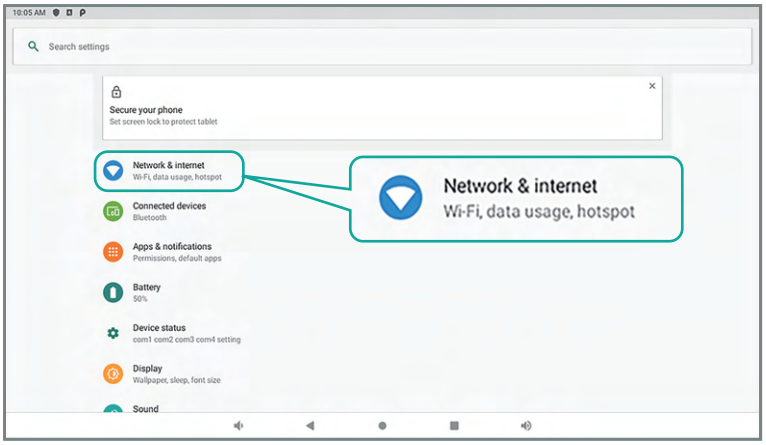
5. Enter the password and touch the "Connect".



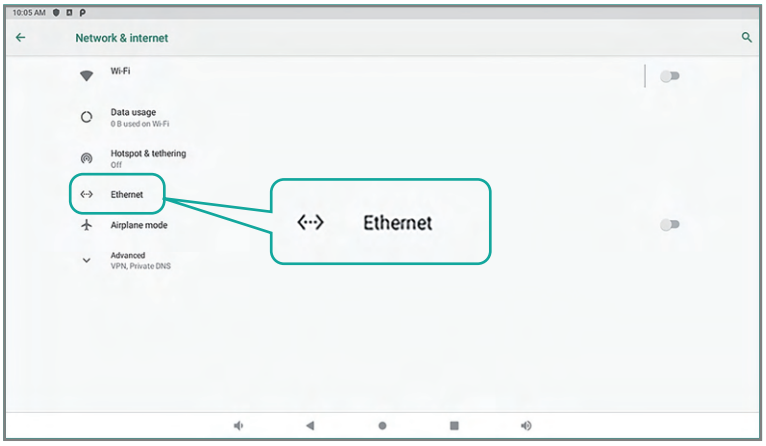
02. Ethernet

The default setting is to automatically assign an IP address. Here's how to manually set the IP address:

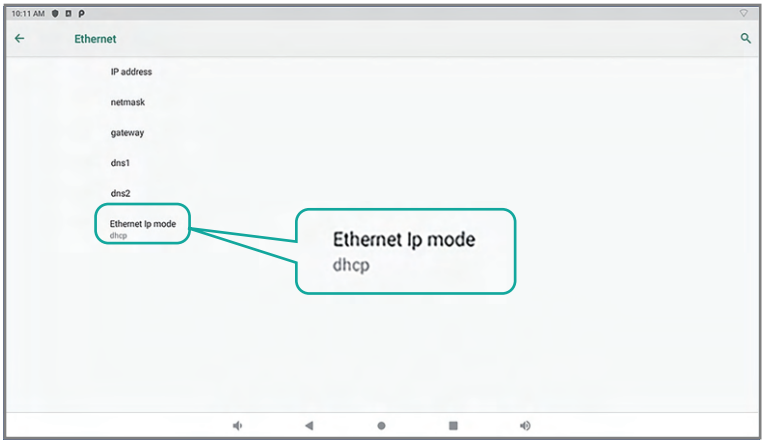
1. Touch the "Network & internet".



2. Touch the "Ethernet".

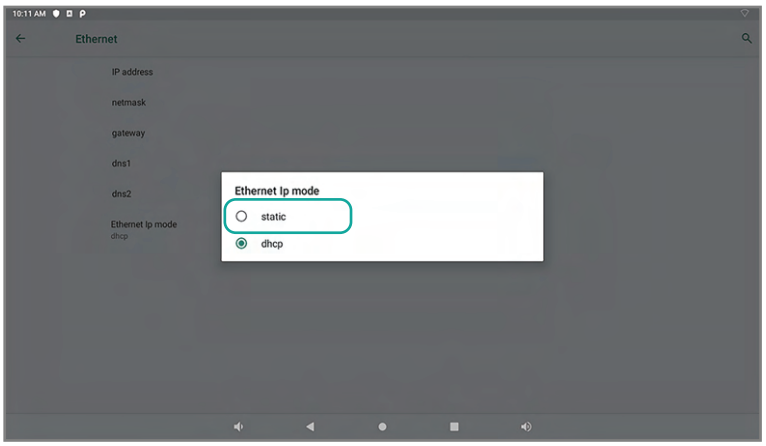


3. Touch the "Ethernet Ip mode".

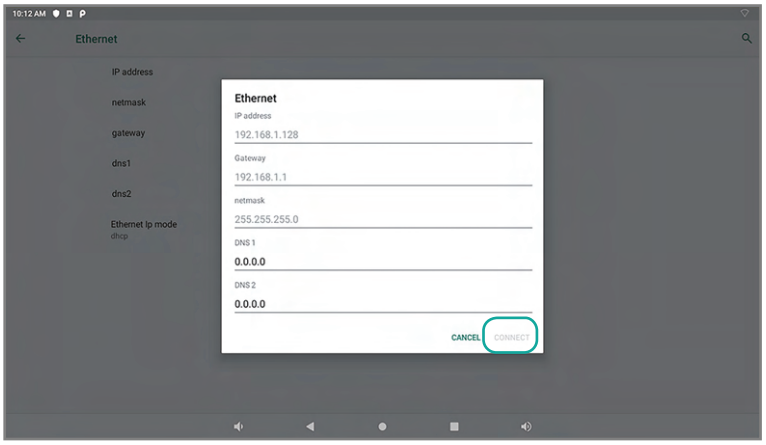


02. Ethernet

4. Select the "static".

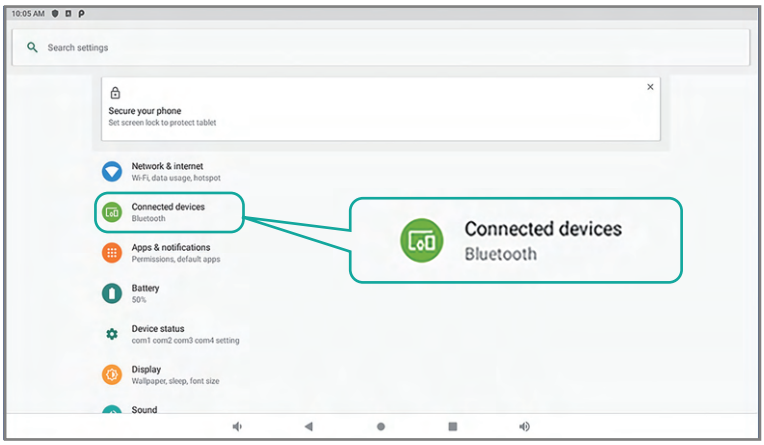


5. You can change the ethernet settings.

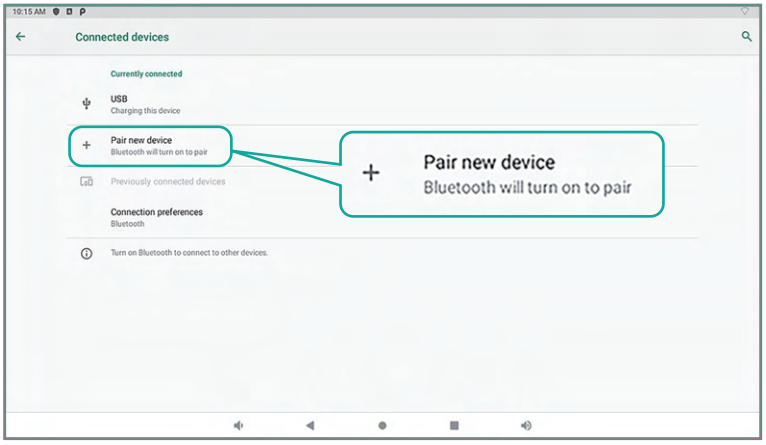


03. Bluetooth

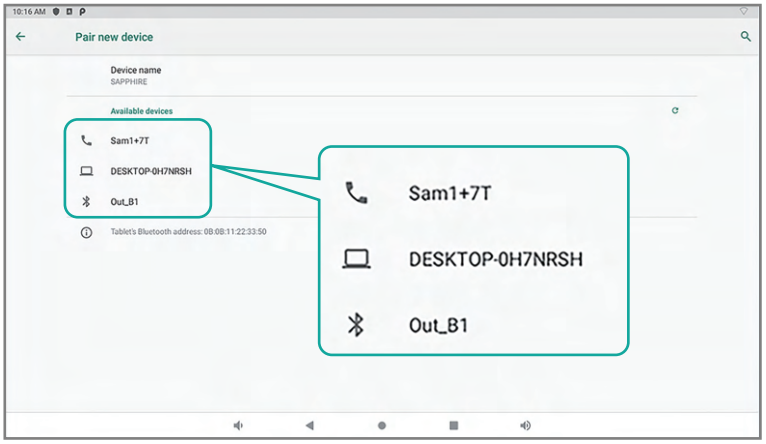
1. Touch the "Connected devices"



2. Search a bluetooth device

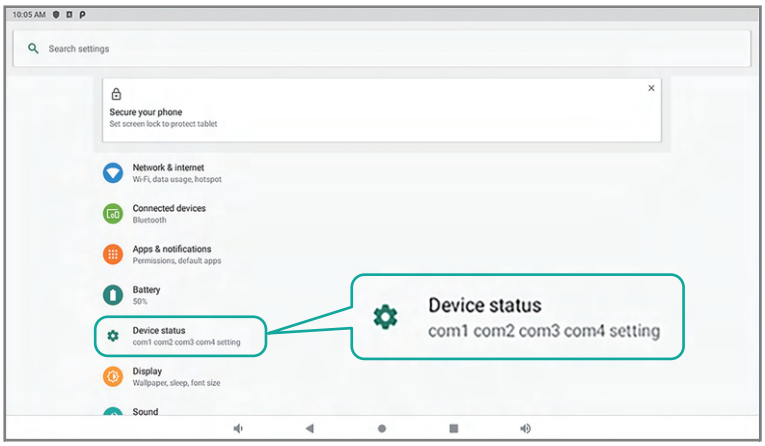


3. Select and connect your device



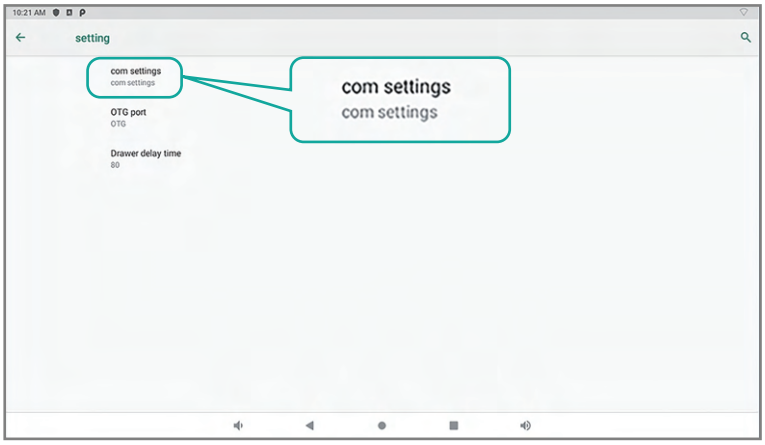
04. Device Status

Touch the "Device status".



- COM port

1. Touch the "com settings".



2. Select the COM port to set.

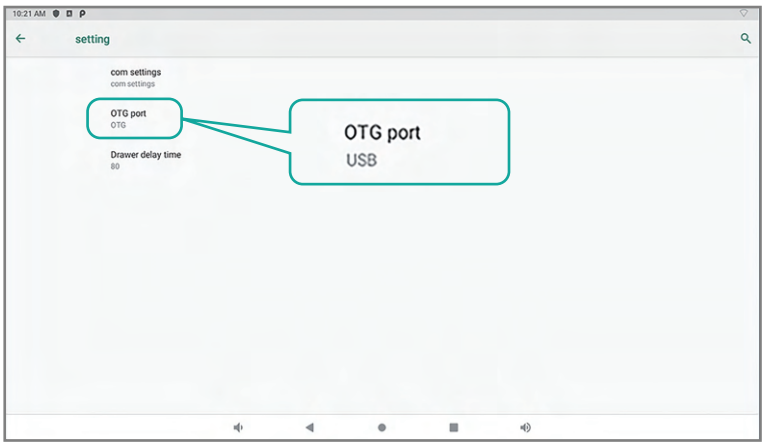
04. Device Status

3. Set the DC voltage of COM port.

- OTG port

  Change USB to OTG mode. (USB3 port can be changed to OTG mode.)

1. Touch the "OTG port".



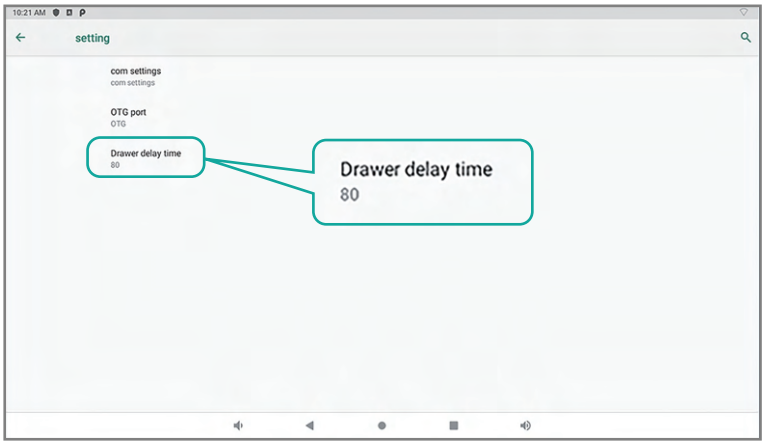
04. Device Status

2. Select the "OTG".

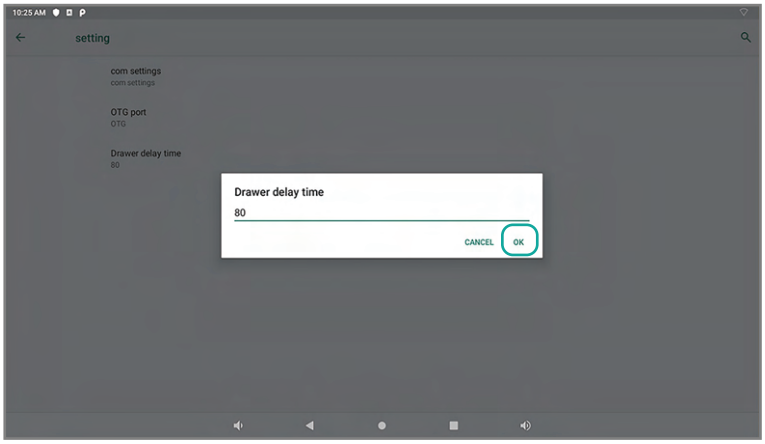
- **Drawer port**

  Set the drawer signal pulse width in milliseconds.

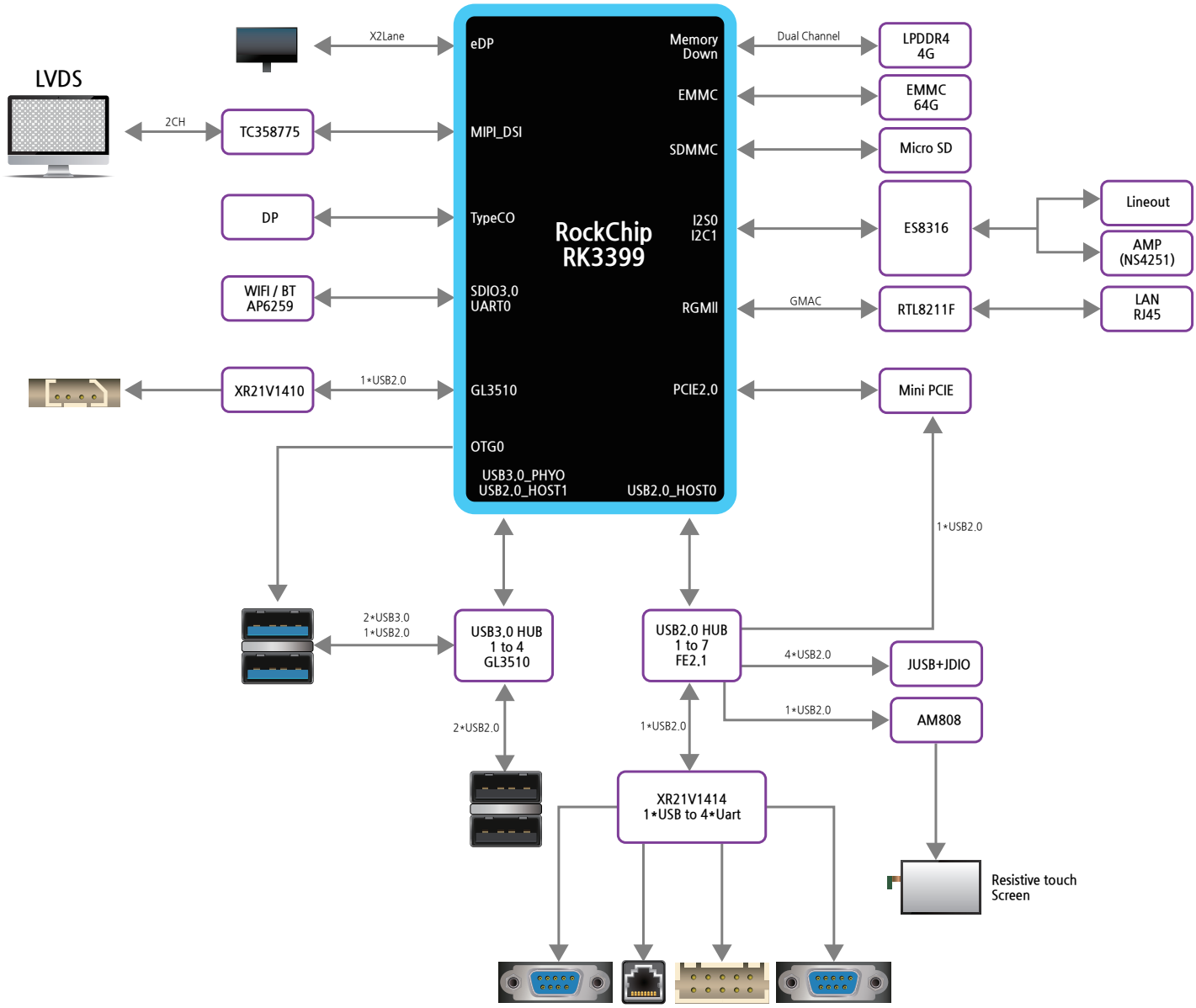
1. Touch the "Drawer delay time".



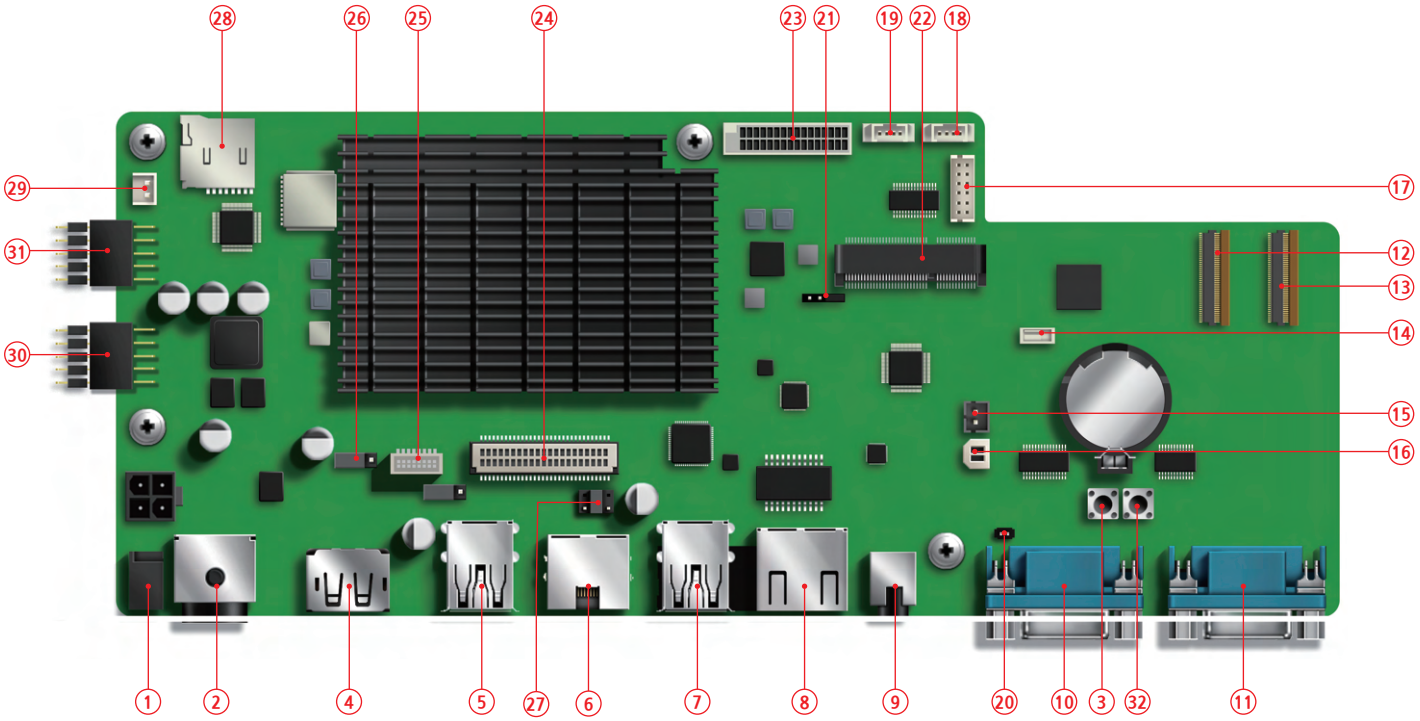
2. Enter the delay time and touch the "OK".



01. System Block Diagram

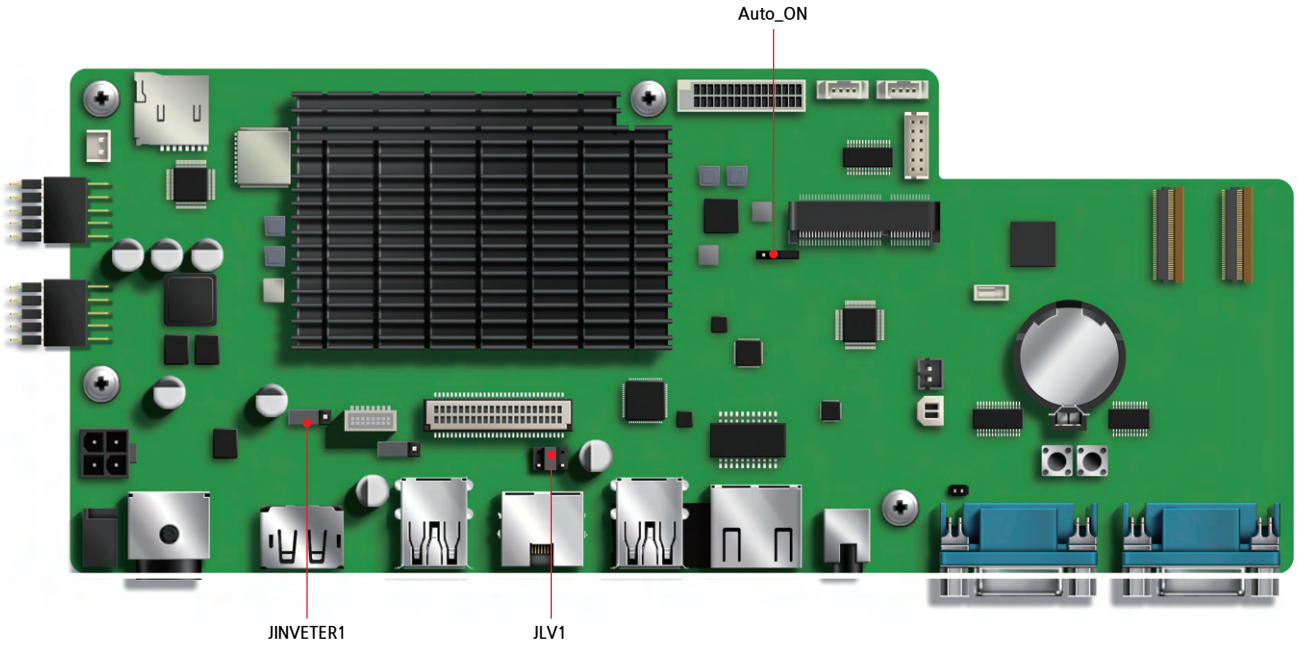


02. Main Chipset & Connector



1	DCOUT	17	COM4
2	DCIN	18	COM5
3	PWRON BTN	19	JUSB1
4	DP	20	J6
5	USB3 / 4	21	Auto_ON
6	COM3	22	MiniPCIE
7	USB7 / 8	23	eDP
8	LAN	24	LVDS
9	HP1	25	IVCN1
10	COM1	26	JINVETER1
11	COM2	27	JLV1
12	JTX	28	SD CARD
13	JRX	29	PWRON BTN
14	SW_JATG1	30	JDIO1
15	SPK1	31	JDIO2
16	SPK2	32	Maskrom

03. Main Jumper Setting



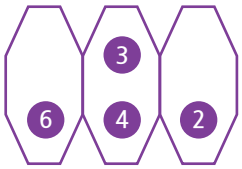
Auto_ON (㉑)

Pin	1-2	2-3
Define	BTN BOOT	Auto_boot
Default	1-2	

JINVETER1 (㉖)

Pin	1-2	2-3
Define	+5V	+12V
Default	2-3	

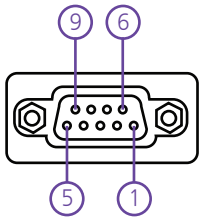
JLV1 (㉗)



3-4	+V3. 3S (Default)
2-4	+V5S
6-4	+V12S

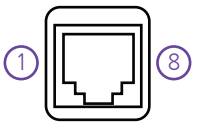
04. IO Pin map

• COM1/2 RS-232 Serial Port (D-SUB9 MALE)



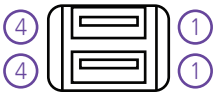
Pin Num	Description
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	Ring / +5V / +12V

• COM3 RS-232 Serial Port (RJ-45)



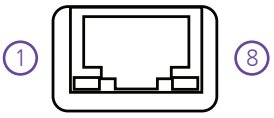
Pin Num	Description
1	Ring / +5V / +12V
2	DSR
3	TXD
4	RXD
5	RTS
6	CTS
7	GND
8	DTR

• USB Port (TYPE A)



Pin Num	Description
1	VBUS(+5V)
2	D-
3	D+
4	GND

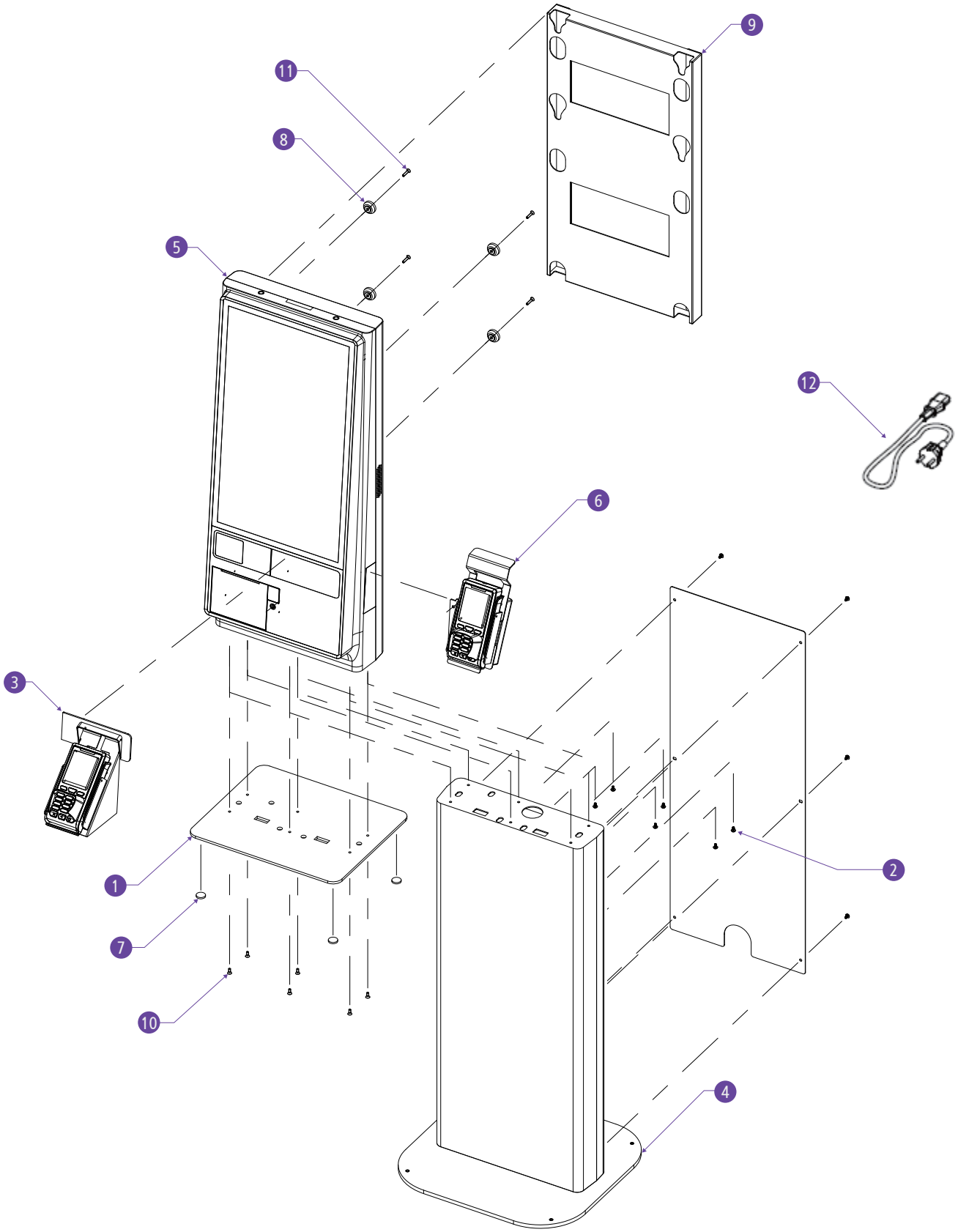
• LAN Port (RJ-45)



Pin Num	Description
1	MDI [0] +
2	MDI [0] -
3	MDI [1] +
4	MDI [1] -
5	MDI [2] +
6	MDI [2] -
7	MDI [3] +
8	MDI [3] -

05. Parts List

• SET TOTAL

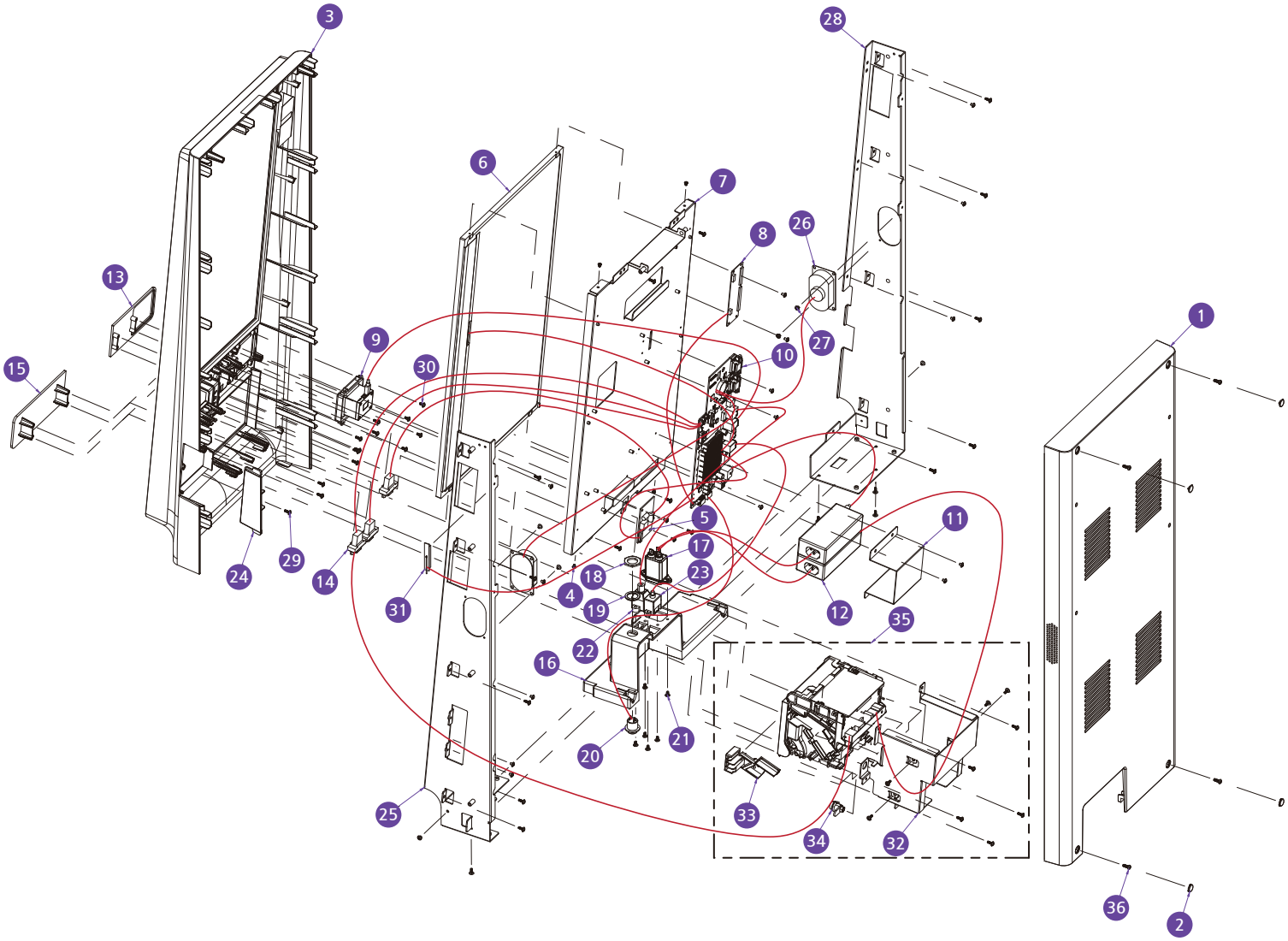


05. Parts List

No.	Part Code	Part Name	Q'TY	Serviceable	Remark
1	JK70-20621A	IPR-PLATE SUPPORT, WHITE	1	Y	
2	S600100039A	SCREW-MACHINE ; PWH, M4, L8	6	Y	PACKAGE
3	SKE-AFW(STD)	EFT BRKT, FRONT, WHITE	1	Y	
4	SKS-NAW(STD)	STAND, WHITE	1	Y	
5	-	ASSY-MAIN BODY	1	Y	
6	SKE-ARW(STD)	EFT BRKT, RIGHT, WHITE	1	Y	
7	JK73-11023A	RMO-FOOT RUBBER	4	Y	
8	JK70-70151A	ICT-WALL MOUNT HOLDER	4	Y	PACKAGE
9	KWM-AR100(STD)	WALL MOUNT, WHITE	1	Y	
10	S600100010A	SCREW-MACHINE : FH, M4, L10	6	Y	
11	S600100041A	SCREW-MACHINE : FH, M4, L20, BLACK	4	Y	PACKAGE
12	JK39-30304A	POWER-CORD, KOREA, 250V, BLACK	1	Y	PACKAGE

05. Parts List

• MAIN BODY

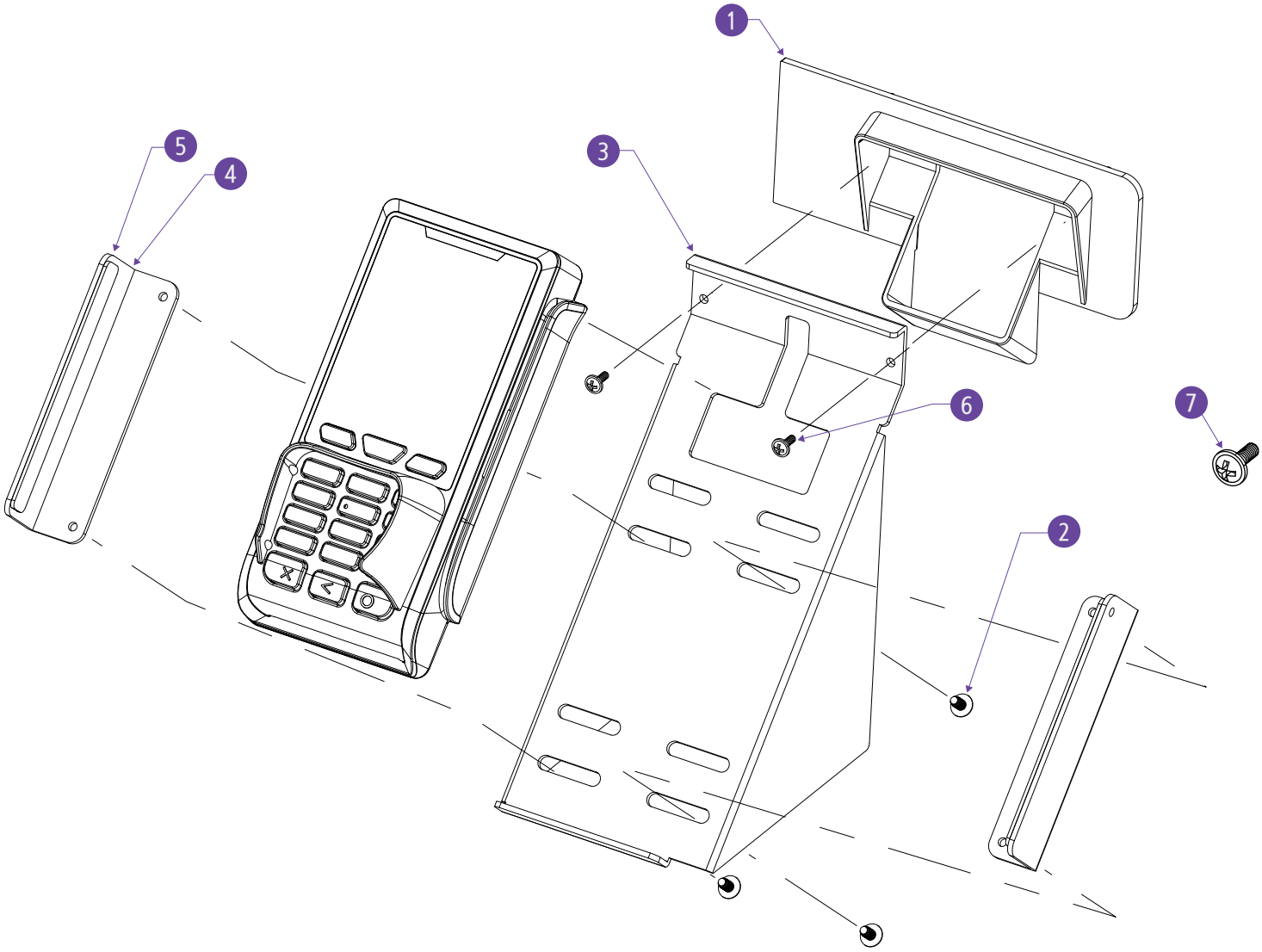


05. Parts List

No	Part Code	Part Name	Q'TY	Serviceable	Remark
1	JK72-21224A	PMO-COVER REAR,WHITE	1	Y	
2	JK73-11025B	RMO-CAP RUBBER,WHITE	4	Y	
3	JK95-71020A	ASSY MAIN BODY,WHITE	1	Y	
4	S600100016A	SCREW-MACHINE:PWH,M3,L4	8	Y	
5	JK48-10057A	LED Backlight Driver	1	Y	
6	JK07-70016B	LCD Panel,21.5"	1	Y	
7	JK70-20616A	IPR-BRKT LCD	1	Y	
8	JK48-10031B	CONTROLLER BOARD	1	Y	
9	JK48-10060A	SCANNER	1	Y	
10	SA95-71029A	ASSY-MOTHER BD:ANDROID,PCAP	1	Y	
11	JK70-20609A	IPR-BRKT ADAPTER	1	Y	
12	JK44-10032A	POWER-SMPS,12V,5A,PC-POS	1	Y	
	JK44-10005C	POWER-SMPS,24V,2.5A,PRINTER	1	Y	
13	JK72-21222E	PMO-COVER SCANNER,WHITE	1	Y	
14	JK39-80101B	HARNESS-SERIAL,400mm,10P	1	Y	
	JK39-80101C	HARNESS-SERIAL,400mm,4P	1	Y	
15	JK72-21223A	PMO-DUMMY MSR,WHITE	1	Y	
16	JK72-21221A	PMO-BOTTOM BODY,WHITE	1	Y	
17	JK39-40842B	HARNESS-INLET POWER	1	Y	
18	-	NUT-POWER PUSH-SWITCH	1	Y	
19	-	WASHER-POWER PUSH-SWITCH	1	Y	
20	JK39-40898A	POWER PUSH-SWITCH	1	Y	
21	S600100027A	SCREW-MACHINE:BH,M3,L10,BLACK	4	Y	
22	JK39-90057A	LAN EXTENSION CABLE	1	Y	
23	JK39-90056A	USB EXTENSION CABLE	1	Y	
24	JK72-21226A	PMO-DUMMY EFT,WHITE	1	Y	
25	JK70-20617A	IPR-FRAME LH	1	Y	
26	S300400011A	SPEAKER,5W	2	Y	
27	S600100016A	SCREW-MACHINE:PWH,M3,L4	23	Y	
28	JK70-20618A	IPR-FRAME RH	1	Y	
29	S600200006A	SCREW-TAPPING:PWH,M3,L8	38	Y	
30	S600200028A	SCREW-TAPPING;PWH,M3,L6	4	Y	
31	S421000024A	WiFi ANTENNA	2	Y	
32	JK70-20620A	IPR-BRKT PRINTER	1	Y	
33	JK72-21212A	PMO-LEVER OPEN,WHITE	1	Y	
34	JK75-50022A	LOCK	1	Y	
35	JK95-70997A	ASSY-GCUBE,KIOSK,WHITE	1	Y	
36	S600200003A	SCREW-TAPPING:PH,M4,L10	4	Y	

05. Parts List

- EFT Terminal (Front)

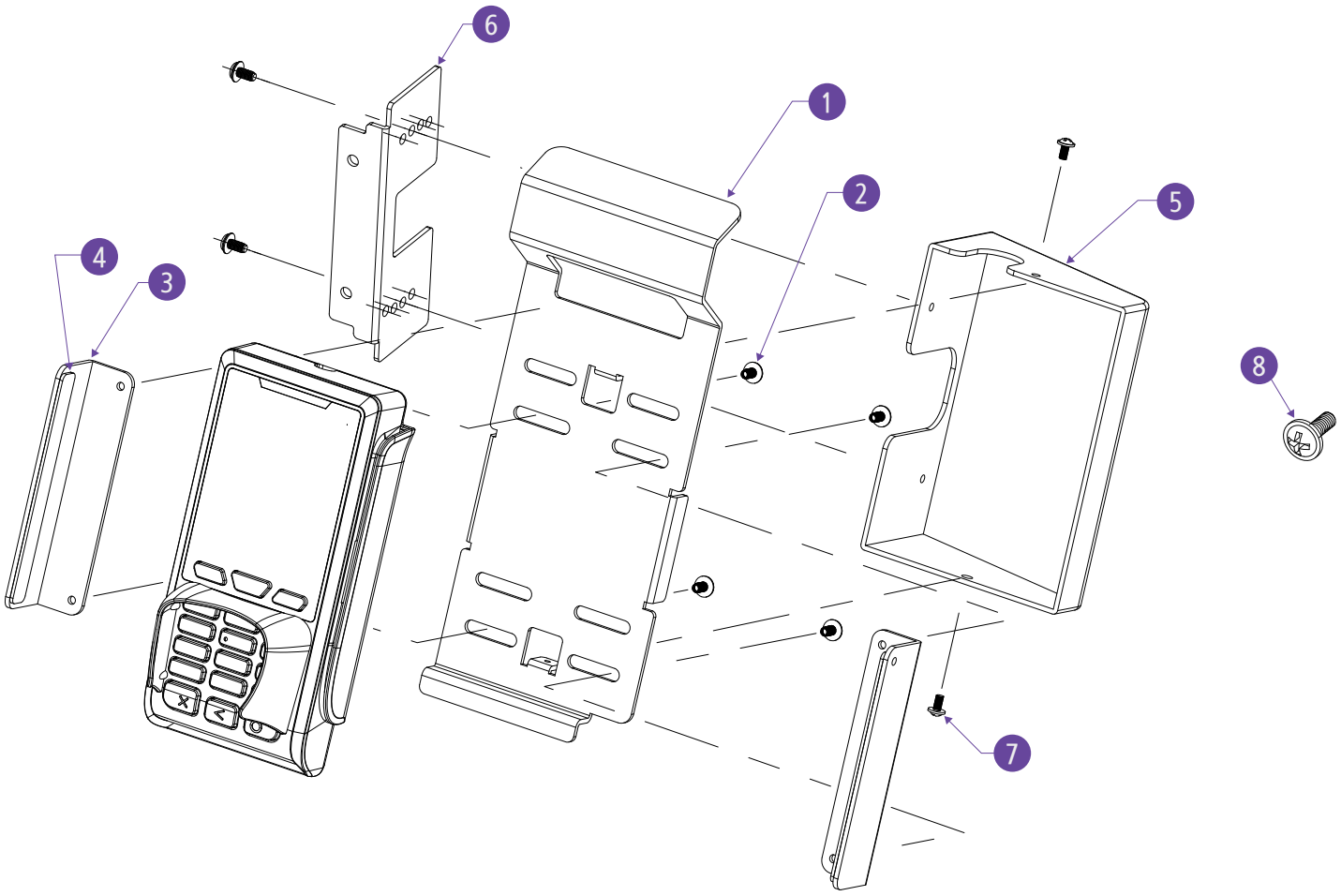


05. Parts List

No	Part Code	Part Name	Q'TY	Serviceable	Remark
-	SKE-AFW(STD)	EFT BRKT,FRONT,WHITE	1	Y	
1	JK72-21225B	PMO-COVER EFT,WHITE	1	Y	
2	S600100046A	SCREW-MACHINE:PWH,M4,L6,BLACK	4	Y	
3	JK70-20622A	IPR-HOLDER EFT,WHITE	1	Y	
4	JK70-20623A	IPR-BRKT EFT,WHITE	2	Y	
5	JK73-11087B	RMO-FOOT RUBBER,BLACK	2	Y	
6	S600200006A	SCREW-TAPPING:PWH,M3,L8	2	Y	
7	S600200006A	SCREW-TAPPING:PWH,M3,L8	4	Y	PACKAGE

05. Parts List

• EFT Terminal (Side)



05. Parts List

No	Part Code	Part Name	Q'TY	Serviceable	Remark
-	SKE-ARW(STD)	EFT BRKT,RIGHT,WHITE	1	Y	
1	JK70-20624A	IPR-HOLDER EFT_RH,WHITE	1	Y	
2	S600100046A	SCREW-MACHINE:PWH,M4,L6,BLACK	6	Y	
3	JK70-20623A	IPR-BRKT EFT,WHITE	2	Y	
4	JK73-11087B	RMO-FOOT RUBBER,BLACK	2	Y	
5	JK70-20625A	IPR-COVER EFT,WHITE	1	Y	
6	JK70-20626A	IPR-SUPPORT EFT_RH,WHITE	1	Y	
7	S600100017A	SCREW-MACHINE:PWH,M3,L6	2	Y	
8	S600100046A	SCREW-MACHINE:PWH,M4,L6,BLACK	2	Y	PACKAGE