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PROTECH Group

PA-J670

Quick
Reference
Guide

Ver. Q1

Packing Checklist

If you discover any item below was damaged or lost, please contact your vendor immediately.

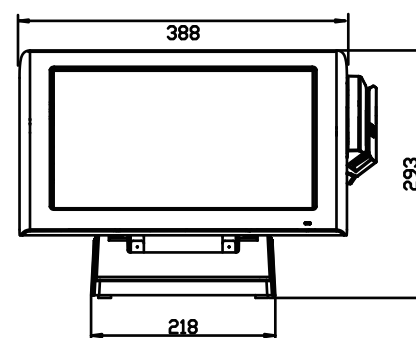|		
☑	PA-J670	X 1
☑	This Quick Reference Guide	X 1
☑	Power Adaptor	X 1
☑	AC Power Cord	X 1
☑	Driver DVD	X 1
☐	Option	X 1

Specifications

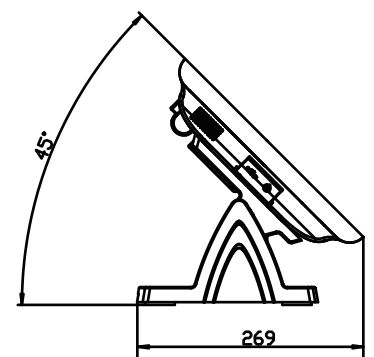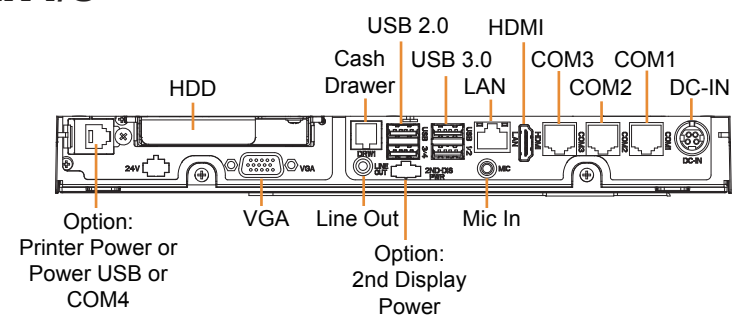|		
System	CPU Support	Intel® Celeron J3455 CPU
	Memory	1 x DDR3L SO-DIMM (up to 8GB)
	Network	Gigabit 10/100/1000 Base-T Fast Ethernet
	Power Supply	60/90 watt power adaptor
	Audio	2W speaker
	System Weight	5.21kg
	Dimensions (W x H x D)	388 x 293 x 269mm (45 degree)
	Viewing Angle	0-70 degree
	O.S. Support	Win 10 IoT Ent 2019 LTSC / 2016 LTSB
Storage	SATA	1 x 2.5" HDD or SSD 1 x M.2 2242 (SATAIII interface)
I/O Ports	USB	on rear: 2 x USB 2.0 / 2 x USB 3.0 on side bezel: 1 x USB 2.0 (optional)
	Serial Ports	COM x 3+1(optional), RJ50 connector (support RI/5V/12V) COM1/2 support RI /5V /12V selectable under BIOS
	LAN	1 x RJ45
	VGA	1 x DB15
	HDMI	1 x HDMI
	Audio	1 x Mic In, 1 x Line Out
	Cash Drawer	1 x RJ12 (+12V or +24V selectable)
	HDD Slot	1 x HDD maintenance slot
	DC In	1 x 4pin DC power jack
	DC Out	1 x 12Vdc out (3-pin) for 2nd display (optional)
Add-ons	Customer Display	VFD, 20 columns and 2 lines, each column is 5 x 7 dots
	Printer	2" or 3" easy loading thermal printer with auto-cutter
	Fingerprint	8-bit grayscale reader
	MSR & iButton	JIS I or II, ISO Track1+2+3
	2nd Display	Hang on back 8" , 10.4" , 15" LCD / Standalone: 15" LCD
Display	LCD	15" TFT LCD
	Max. Resolution	1024 x 768
	Brightness	300 cd/m²
	Touchscreen	Bezel-free 5-wire analog resistive or projected capacitive
Environment	EMC & Safety	CE / FCC
	Temp.	Operating: 0°C ~ 35°C / Storage: -5°C ~ 60°C
	Humidity	20% ~ 90%

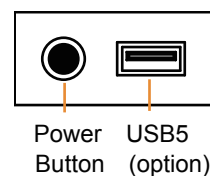---

System View

Unit: mm

Front View

388

293

218

Side View

45°

269

REAR I/O

HDD

Cash Drawer

USB 2.0

USB 3.0

LAN

HDMI

COM3

COM2

COM1

DC-IN

Option:
Printer Power or
Power USB or
COM4

VGA

Line Out

Mic In

Option:
2nd Display
Power

SIDE I/O

Power
Button

USB5
(option)

Easy Maintenance

HDD Maintenance

Step. 3 Pull out HDD tray.

Step. 2 Unassemble the HDD fixing screws.

Step. 1 Adjust LCD angle to zero degree.

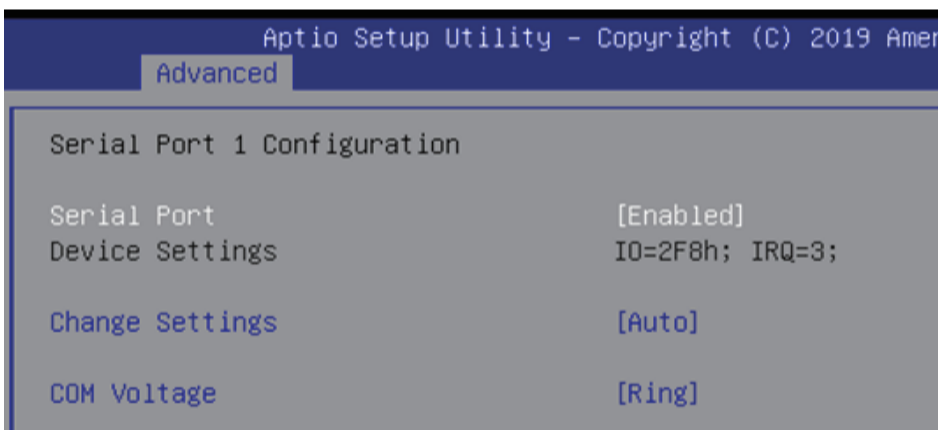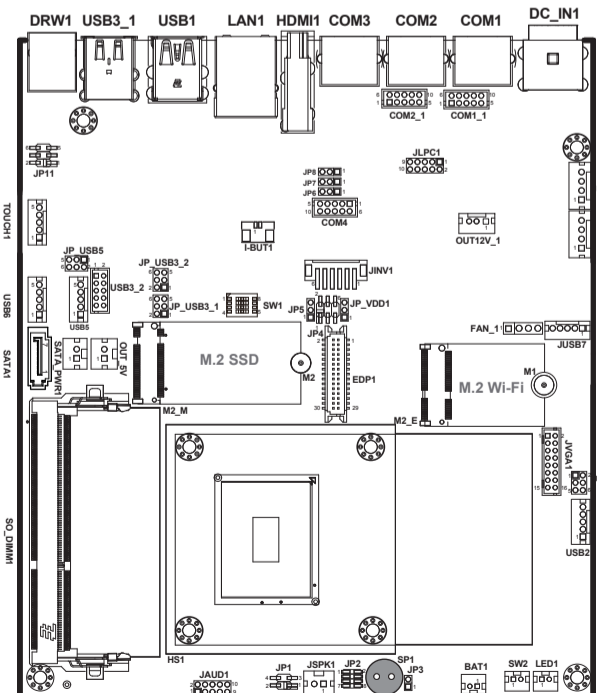## COM Port Voltage Selection

Voltage of external "COM1" & "COM2" ports are made to control on BIOS for your convenience.


```
Aptio Setup Utility - Copyright (C) 2019 Amer
  Advanced

Serial Port 1 Configuration

Serial Port                    [Enabled]
Device Settings                IO=2F8h; IRQ=3;

Change Settings                [Auto]

COM Voltage                    [Ring]
```

BIOS Setting	Options	Description
COM Voltage	-Disabled -12V -5V	Disable or select COM1 Voltage 12V/5V

M/B: PB-A900

Safety Precaution

The following messages are safety reminders on how to protect your system from damages, and extend the life cycle of the system.

1. Check the Line Voltage
- Make sure the operating voltage range is between 100V and 240V AC; otherwise, the system could be damaged.

2. Environmental Conditions
- Place your PA-J670 on a sturdy, level surface. Be sure to allow enough space around the system to have easy access needs.
- Avoid installing the system in extremely hot or cold places.
- Avoid exposure to sunlight for a long period of time or in an airtight room.
- Also, avoid the system from any heating device or using the PA-J670 when it has been left outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is between 0°C and 35°C (32°F~ 95°F).
- Avoid moving the system rapidly from a hot place to a cold place, and vice versa, because condensation may occur inside the system.
- Operate the PA-J670 in strong vibration may cause hard disk failure.
- Do not place the system too close to any radio-active device. Radio-active device may cause signal interference.
- Always shut down the operating system before turning off the power.
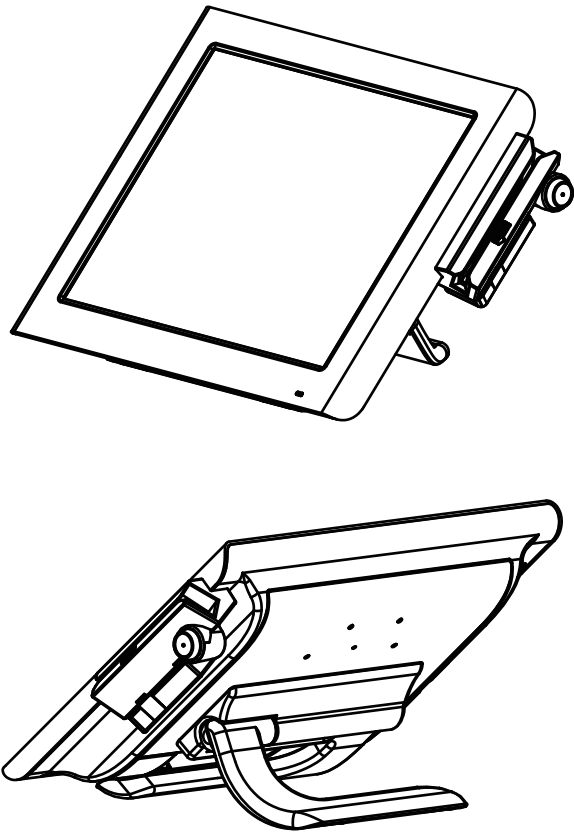
3. Handling
- Avoid placing heavy objects on the top of the system.
- Do not turn the system upside down. This may cause the hard drive to malfunction.
- Do not allow any objects to fall into this product.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
- When the outside case gets stained, remove the stains using neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the surface of the case.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or alcohol and then wipe thoroughly with a dry cloth.
- If dust is accumulated on the case surface, remove it using a special vacuum cleaner for computers.
- Do not replace the motherboard battery by yourself, or serious damage may occur.

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PA-J670

Quick Reference Guide

Ver. Q1

Packing Checklist

If you discover any item below was damaged or lost, please contact your vendor immediately.

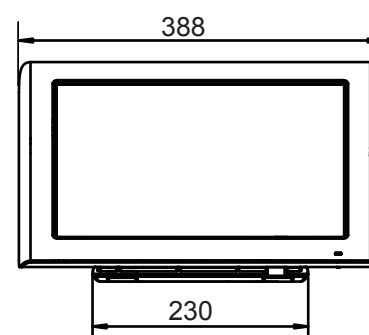| ☑ PA-J670 | X 1 |
☑ This Quick Reference Guide	X 1
☑ Power Adaptor	X 1
☑ AC Power Cord	X 1
☑ Driver DVD	X 1
☐ Option	X 1

Specifications

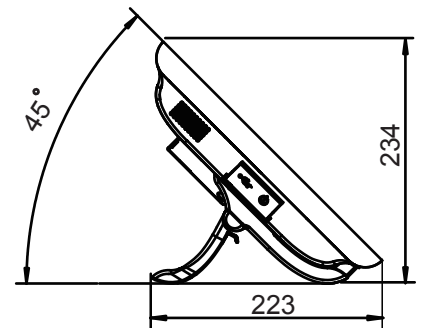|		
System	CPU Support	Intel® Celeron J3455 CPU
	Memory	1 x DDR3L SO-DIMM (up to 8GB)
	Network	Gigabit 10/100/1000 Base-T Fast Ethernet
	Power Supply	60/90 watt power adaptor
	Audio	2W speaker
	System Weight	4.7kg
	Dimensions (W x H x D)	POS type: 388 x 234 x 223mm (45 degree) PPC type: 388 x 300 x 93.2mm (with power adaptor holder)
	Viewing Angle	30-50 degree
	O.S. Support	Win 10 IoT Ent 2019 LTSC / 2016 LTSB
Storage	SATA	1 x 2.5" HDD or SSD 1 x M.2 2242 (SATAIII interface)
I/O Ports	USB	on rear: 2 x USB 2.0 / 2 x USB 3.0 on side bezel: 1 x USB 2.0 (optional)
	Serial Ports	COM x 3+1(optional), RJ50 connector (support RI/5V/12V) COM1/2 support RI /5V /12V selectable under BIOS
	LAN	1 x RJ45
	VGA	1 x DB15
	HDMI	1 x HDMI
	Audio	1 x Mic In, 1 x Line Out
	Cash Drawer	1 x RJ12 (+12V or +24V selectable)
	HDD Slot	1 x HDD maintenance slot
	DC In	1 x 4pin DC power jack
	DC Out	1 x 12Vdc out (3-pin) for 2nd display (optional)
Add-ons	Customer Display	VFD, 20 columns and 2 lines, each column is 5 x 7 dots
	Printer	2" or 3" easy loading thermal printer with auto-cutter
	Fingerprint	8-bit grayscale reader
	MSR & iButton	JIS I or II, ISO Track1+2+3
	2nd Display	Hang on back 8", 10.4" , 15" LCD / Standalone: 15" LCD
Display	LCD	15" TFT LCD
	Max. Resolution	1024 x 768
	Brightness	300 cd/m²
	Touchscreen	Bezel-free 5-wire analog resistive or projected capacitive
Environment	EMC & Safety	CE / FCC
	Temp.	Operating: 0°C ~ 35°C / Storage: -5°C ~ 60°C
	Humidity	20% ~ 90%

System View

Unit: mm

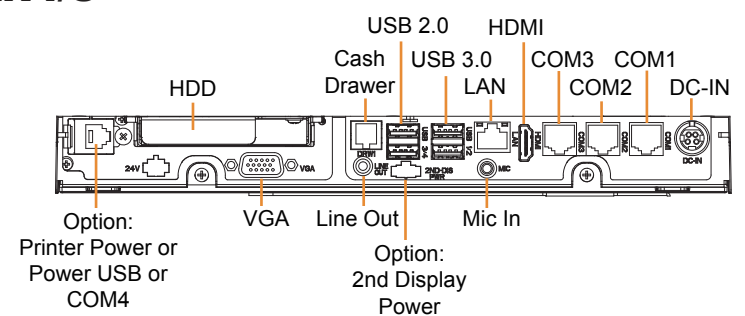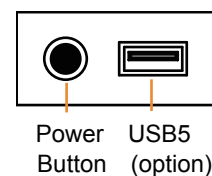## Front View

388

230

Side View

45°

234

223

REAR I/O

USB 2.0
HDMI
Cash Drawer
USB 3.0
LAN
COM3
COM2
COM1
DC-IN
HDD

Option: Printer Power or Power USB or COM4

VGA
Line Out
Mic In

Option: 2nd Display Power
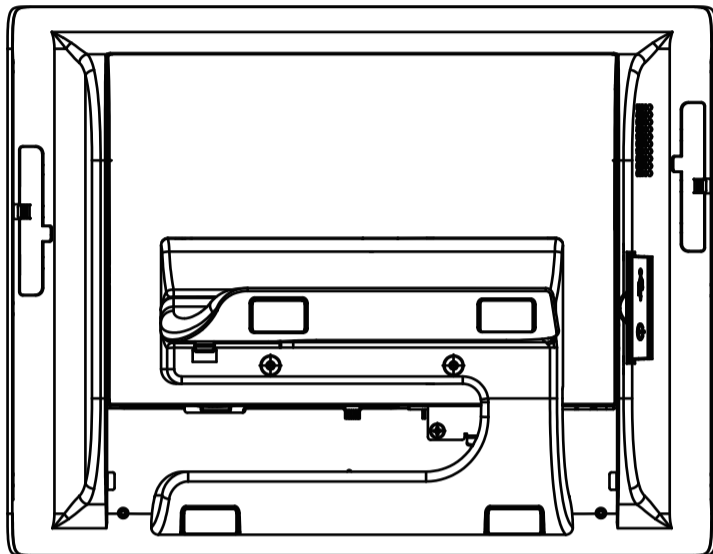
SIDE I/O

Power Button

USB5 (option)

PA-J670

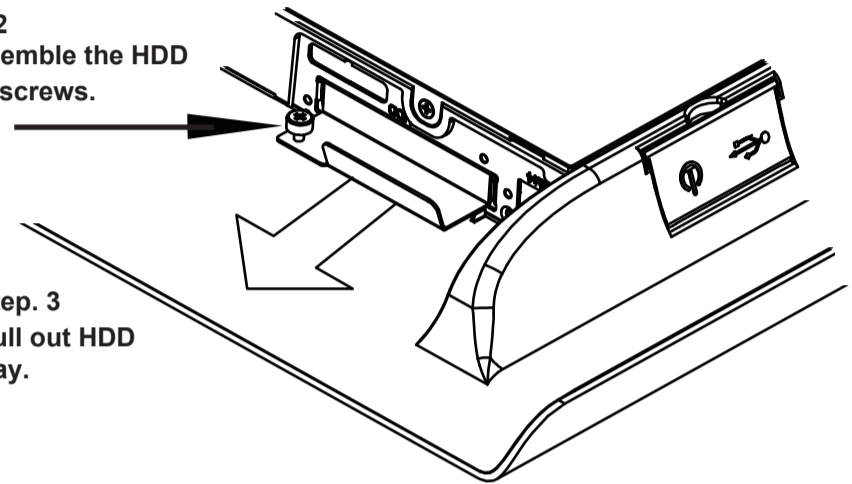## 15" Fanless POS Terminal with Intel® Celeron J3455

Easy Maintenance

HDD Maintenance

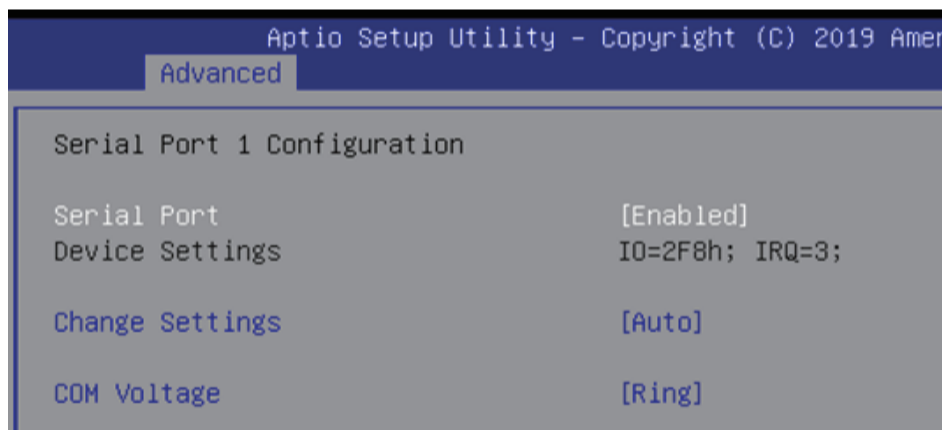**Step. 1 Lay down System on a flat as under drawing.**

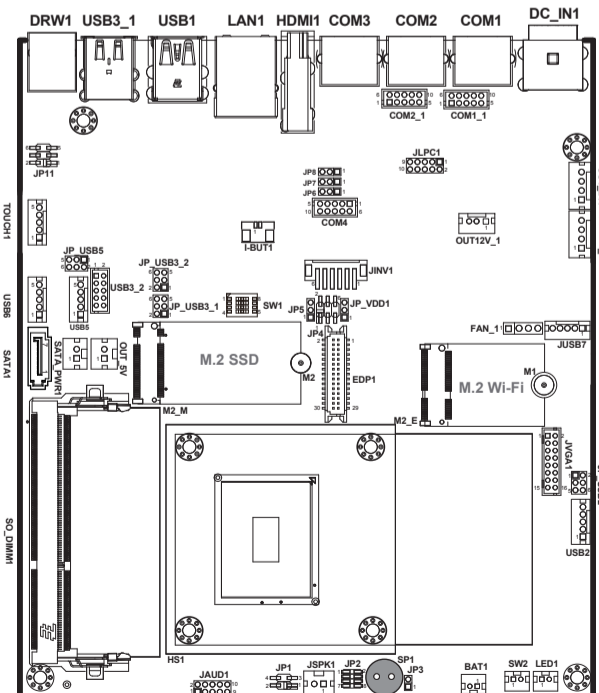**Step. 2 Unassemble the HDD fixing screws.**

Step. 3 Pull out HDD tray.

COM Port Voltage Selection

Voltage of external "COM1" & "COM2" ports are made to control on BIOS for your convenience.


```
Aptio Setup Utility - Copyright (C) 2019 Amer
  Advanced

Serial Port 1 Configuration

Serial Port                      [Enabled]
Device Settings                  IO=2F8h; IRQ=3;

Change Settings                  [Auto]

COM Voltage                      [Ring]
```

BIOS Setting	Options	Description
COM Voltage	-Disabled -12V -5V	Disable or select COM1 Voltage 12V/5V

M/B: PB-A900

Safety Precaution

The following messages are safety reminders on how to protect your system from damages, and extend the life cycle of the system.

1. Check the Line Voltage
- Make sure the operating voltage range is between 100V and 240V AC; otherwise, the system could be damaged.

2. Environmental Conditions
- Place your PA-J670 on a sturdy, level surface. Be sure to allow enough space around the system to have easy access needs.
- Avoid installing the system in extremely hot or cold places.
- Avoid exposure to sunlight for a long period of time or in an airtight room.
- Also, avoid the system from any heating device or using the PA-J670 when it has been left outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is between 0°C and 35°C (32°F~ 95°F).
- Avoid moving the system rapidly from a hot place to a cold place, and vice versa, because condensation may occur inside the system.
- Operate the PA-J670 in strong vibration may cause hard disk failure.
- Do not place the system too close to any radio-active device. Radio-active device may cause signal interference.
- Always shut down the operating system before turning off the power.
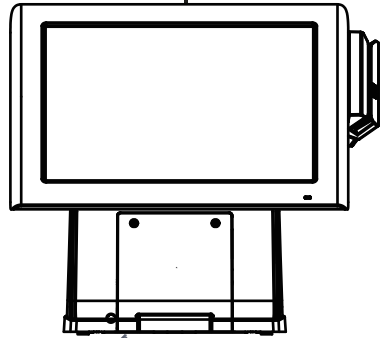
3. Handling
- Avoid placing heavy objects on the top of the system.
- Do not turn the system upside down. This may cause the hard drive to malfunction.
- Do not allow any objects to fall into this product.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
- When the outside case gets stained, remove the stains using neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the surface of the case.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or alcohol and then wipe thoroughly with a dry cloth.
- If dust is accumulated on the case surface, remove it using a special vacuum cleaner for computers.
- Do not replace the motherboard battery by yourself, or serious damage may occur.

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PA-J670

Quick Reference Guide

Ver. Q1

Packing Checklist

If you discover any item below was damaged or lost, please contact your vendor immediately.

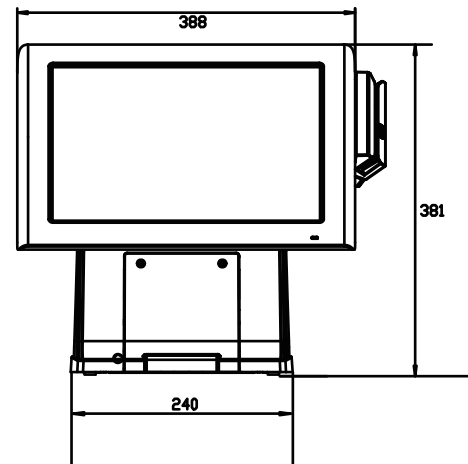|		
☑	PA-J670	X 1
☑	This Quick Reference Guide	X 1
☑	Power Adaptor	X 1
☑	AC Power Cord	X 1
☑	Driver DVD	X 1
☐	Option	X 1

Specifications

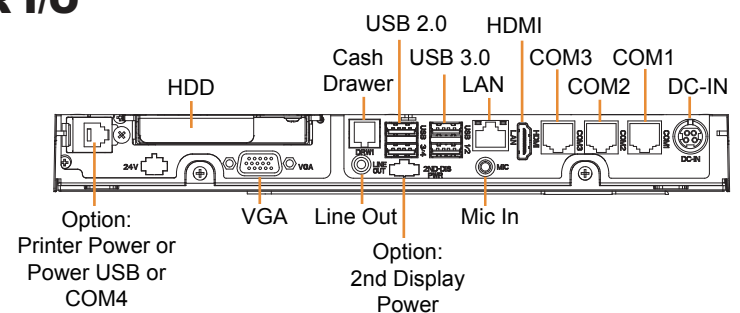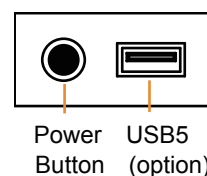|		
System	CPU Support	Intel® Celeron J3455 CPU
	Memory	1 x DDR3L SO-DIMM (up to 8GB)
	Network	Gigabit 10/100/1000 Base-T Fast Ethernet
	Power Supply	60/90 watt power adaptor
	Audio	2W speaker
	System Weight	5.62kg (without printer)
	Dimensions (W x H x D)	388 x 381 x 225mm (50 degree)
	O.S. Support	Win 10 IoT Ent 2019 LTSC / 2016 LTSB
Storage	SATA	1 x 2.5" HDD or SSD 1 x M.2 2242 (SATAIII interface)
I/O Ports	USB	on rear: 2 x USB 2.0 / 2 x USB 3.0 on side bezel: 1 x USB 2.0 (optional)
	Serial Ports	COM x 3+1(optional), RJ50 connector (support RI/5V/12V) COM1/2 support RI /5V /12V selectable under BIOS
	LAN	1 x RJ45
	VGA	1 x DB15
	HDMI	1 x HDMI
	Audio	1 x Mic In, 1 x Line Out
	Cash Drawer	1 x RJ12 (+12V or +24V selectable)
	HDD Slot	1 x HDD maintenance slot
	DC In	1 x 4pin DC power jack
	DC Out	1 x 12Vdc out (3-pin) for 2nd display (optional)
Add-ons	Customer Display	VFD, 20 columns and 2 lines, each column is 5 x 7 dots
	Printer	2" or 3" easy loading thermal printer with auto-cutter
	Fingerprint	8-bit grayscale reader
	MSR & iButton	JIS I or II, ISO Track1+2+3
	2nd Display	Hang on back 8" , 10.4" , 15" LCD / Standalone: 15" LCD
Display	LCD	15" TFT LCD
	Max. Resolution	1024 x 768
	Brightness	300 cd/m²
	Touchscreen	Bezel-free 5-wire analog resistive or projected capacitive
Environment	EMC & Safety	CE / FCC
	Temp.	Operating: 0°C ~ 35°C / Storage: -5°C ~ 60°C
	Humidity	20% ~ 90%

System View

Unit: mm

Front View

388
381
240

Side View

225
50°

REAR I/O

HDD
Cash Drawer
USB 2.0
USB 3.0
LAN
HDMI
COM3
COM2
COM1
DC-IN

Option:
Printer Power or
Power USB or
COM4

VGA
Line Out
Mic In

Option:
2nd Display
Power

SIDE I/O

Power Button
USB5 (option)

Easy Maintenance

HDD Maintenance

Step 3.
Pull out HDD tray.

Step 2.
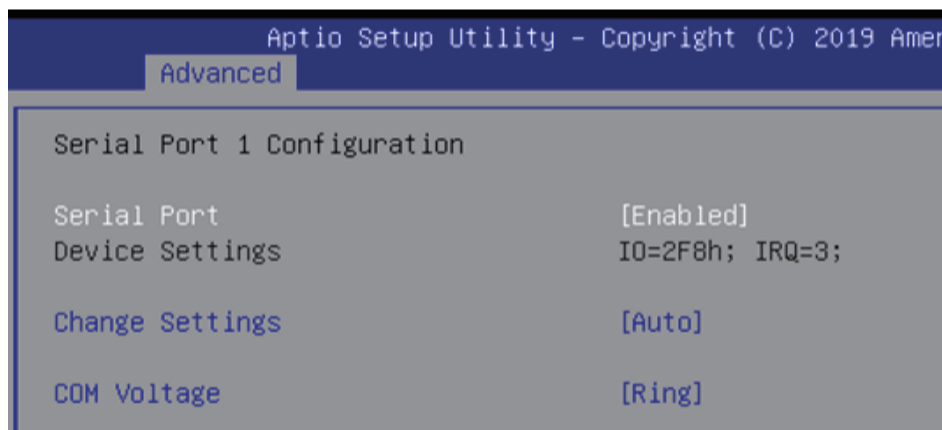**Unassemble the HDD fixing screws.**

Step 1.
To adjust LCD angle to zero degree.

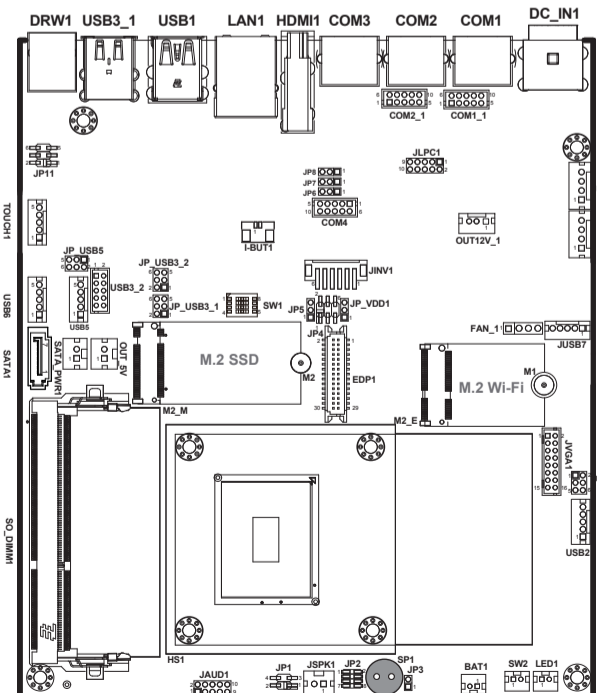## COM Port Voltage Selection

Voltage of external "COM1" & "COM2" ports are made to control on BIOS for your convenience.


```
Aptio Setup Utility - Copyright (C) 2019 Amer
  Advanced

 Serial Port 1 Configuration

 Serial Port                        [Enabled]
 Device Settings                    IO=2F8h; IRQ=3;

 Change Settings                    [Auto]

 COM Voltage                        [Ring]
```

BIOS Setting	Options	Description
COM Voltage	-Disabled -12V -5V	Disable or select COM1 Voltage 12V/5V

M/B: PB-A900

CAUTION! Danger of explosion may occur if the battery is replaced incorrectly. Replace batteries only with the same or equivalent type recommended by the manufacturer. Dispose the used batteries according to the manufacturer's instructions.

Safety Precaution

The following messages are safety reminders on how to protect your system from damages, and extend the life cycle of the system.

1. Check the Line Voltage
- Make sure the operating voltage range is between 100V and 240V AC; otherwise, the system could be damaged.

2. Environmental Conditions
- Place your PA-J670 on a sturdy, level surface. Be sure to allow enough space around the system to have easy access needs.
- Avoid installing the system in extremely hot or cold places.
- Avoid exposure to sunlight for a long period of time or in an airtight room.
- Also, avoid the system from any heating device or using the PA-J670 when it has been left outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is between 0°C and 35°C (32°F~ 95°F).
- Avoid moving the system rapidly from a hot place to a cold place, and vice versa, because condensation may occur inside the system.
- Operate the PA-J670 in strong vibration may cause hard disk failure.
- Do not place the system too close to any radio-active device. Radio-active device may cause signal interference.
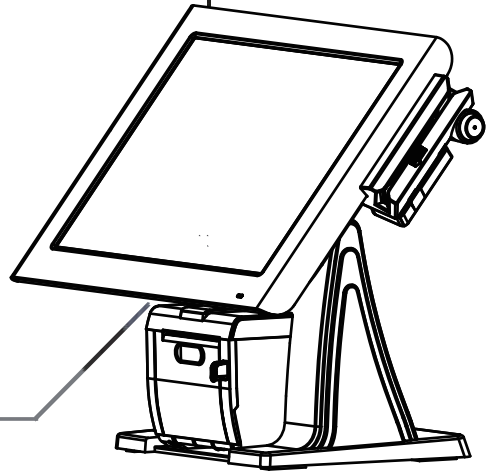- Always shut down the operating system before turning off the power.

3. Handling
- Avoid placing heavy objects on the top of the system.
- Do not turn the system upside down. This may cause the hard drive to malfunction.
- Do not allow any objects to fall into this product.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
- When the outside case gets stained, remove the stains using neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the surface of the case.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or alcohol and then wipe thoroughly with a dry cloth.
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PA-J670

Quick Reference Guide

Ver. Q1

Packing Checklist

If you discover any item below was damaged or lost, please contact your vendor immediately.

☑ PA-J670	X 1
☑ This Quick Reference Guide	X 1
☑ Power Adaptor	X 1
☑ AC Power Cord	X 1
☑ Driver DVD	X 1
☐ Option	X 1

Specifications

System	CPU Support	Intel® Celeron J3455 CPU
	Memory	1 x DDR3L SO-DIMM (up to 8GB)
	Network	Gigabit 10/100/1000 Base-T Fast Ethernet
	Power Supply	60/90 watt power adaptor
	Audio	2W speaker
	System Weight	6.73kg (without printer)
	Dimensions (W x H x D)	388 x 381 x 225mm (50 degree)
	Viewing Angle	0-55 degree
	O.S. Support	Win 10 IoT Ent 2019 LTSC / 2016 LTSB
Storage	SATA	1 x 2.5" HDD or SSD 1 x M.2 2242 (SATAIII interface)
I/O Ports	USB	on rear: 2 x USB 2.0 / 2 x USB 3.0 on side bezel: 1 x USB 2.0 (optional)
	Serial Ports	COM x 3+1(optional), RJ50 connector (support RI/5V/12V) COM1/2 support RI /5V /12V selectable under BIOS
	LAN	1 x RJ45
	VGA	1 x DB15
	HDMI	1 x HDMI
	Audio	1 x Mic In, 1 x Line Out
	Cash Drawer	1 x RJ12 (+12V or +24V selectable)
	HDD Slot	1 x HDD maintenance slot
	DC In	1 x 4pin DC power jack
	DC Out	1 x 12Vdc out (3-pin) for 2nd display (optional)
Add-ons	Customer Display	VFD, 20 columns and 2 lines, each column is 5 x 7 dots
	Printer	2" or 3" easy loading thermal printer with auto-cutter
	Fingerprint	8-bit grayscale reader
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Display	LCD	15" TFT LCD
	Max. Resolution	1024 x 768
	Brightness	300 cd/m²
	Touchscreen	Bezel-free 5-wire analog resistive or projected capacitive
Environment	EMC & Safety	CE / FCC
	Temp.	Operating: 0°C ~ 35°C / Storage: -5°C ~ 60°C
	Humidity	20% ~ 90%

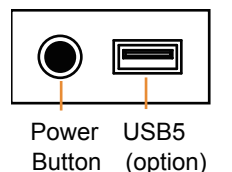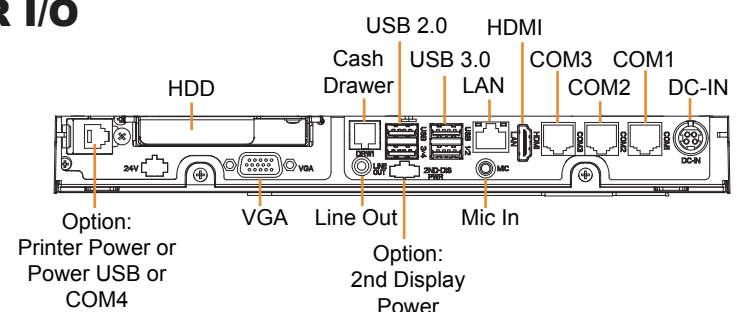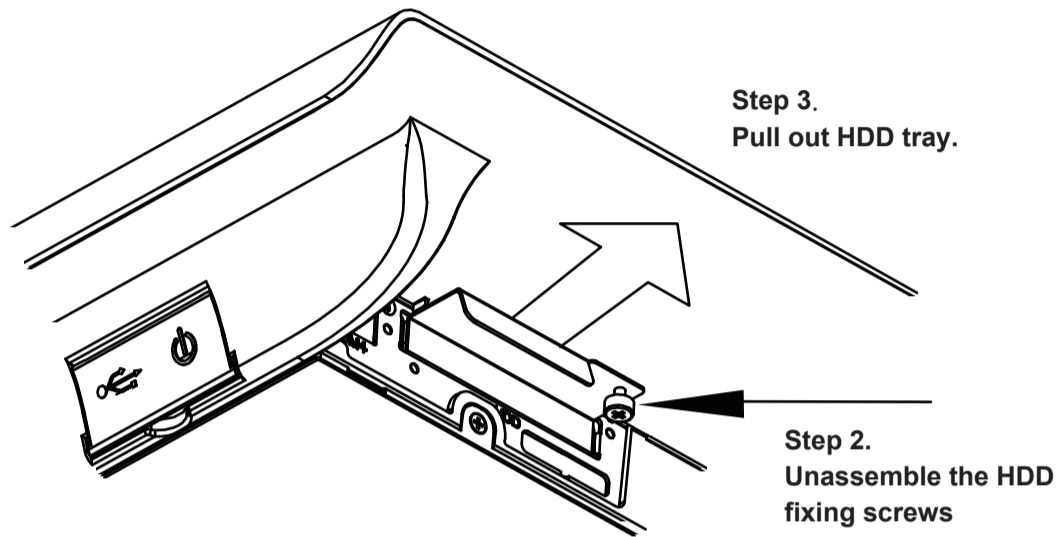## System View

Unit: mm

Front View

388
381
240

Side View

50°
Ø82
225

Caution

SIDE I/O

Power Button   USB5 (option)

REAR I/O

USB 2.0   HDMI
Cash Drawer   USB 3.0   COM3   COM1
HDD   LAN   COM2   DC-IN

Option:
Printer Power or
Power USB or
COM4

VGA   Line Out   Mic In

Option:
2nd Display
Power

Easy Maintenance

HDD Maintenance

Step 1.

To adjust LCD angle to zero degree.

Step 3.
Pull out HDD tray.

Step 2.
Unassemble the HDD fixing screws

COM Port Voltage Selection

Safety Precaution

Voltage of external "COM1" & "COM2" ports are made to control on BIOS for your convenience.


```
Aptio Setup Utility - Copyright (C) 2019 Amen
  Advanced

Serial Port 1 Configuration

Serial Port                [Enabled]
Device Settings            IO=2F8h; IRQ=3;

Change Settings            [Auto]

COM Voltage                [Ring]
```

BIOS Setting	Options	Description
COM Voltage	-Disabled -12V -5V	Disable or select COM1 Voltage 12V/5V

M/B: PB-A900

CAUTION! Danger of explosion may occur if the battery is replaced incorrectly. Replace batteries only with the same or equivalent type recommended by the manufacturer. Dispose the used batteries according to the manufacturer's instructions.

The following messages are safety reminders on how to protect your system from damages, and extend the life cycle of the system.

1. Check the Line Voltage
- Make sure the operating voltage range is between 100V and 240V AC; otherwise, the system could be damaged.

2. Environmental Conditions
- Place your PA-J670 on a sturdy, level surface. Be sure to allow enough space around the system to have easy access needs.
- Avoid installing the system in extremely hot or cold places.
- Avoid exposure to sunlight for a long period of time or in an airtight room.
- Also, avoid the system from any heating device or using the PA-J670 when it has been left outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is between 0°C and 35°C (32°F~ 95°F).
- Avoid moving the system rapidly from a hot place to a cold place, and vice versa, because condensation may occur inside the system.
- Operate the PA-J670 in strong vibration may cause hard disk failure.
- Do not place the system too close to any radio-active device. Radio-active device may cause signal interference.
- Always shut down the operating system before turning off the power.

3. Handling
- Avoid placing heavy objects on the top of the system.
- Do not turn the system upside down. This may cause the hard drive to malfunction.
- Do not allow any objects to fall into this product.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
- When the outside case gets stained, remove the stains using neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the surface of the case.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or alcohol and then wipe thoroughly with a dry cloth.
- If dust is accumulated on the case surface, remove it using a special vacuum cleaner for computers.
- Do not replace the motherboard battery by yourself, or serious damage may occur.

prox
PROTECH Group

PA-J670

Quick Reference Guide

Ver. Q1

Packing Checklist

If you discover any item below was damaged or lost, please contact your vendor immediately.

☑	PA-J670	X 1
☑	This Quick Reference Guide	X 1
☑	Power Adaptor	X 1
☑	AC Power Cord	X 1
☑	Driver DVD	X 1
☐	Option	X 1

Specifications

System	CPU Support	Intel® Celeron J3455 CPU
	Memory	1 x DDR3L SO-DIMM (up to 8GB)
	Network	Gigabit 10/100/1000 Base-T Fast Ethernet
	Power Supply	60/90 watt power adaptor
	Audio	2W speaker
	System Weight	3.84kg
	Dimensions (W x H x D)	388 x 300 x 94mm
	O.S. Support	Win 10 IoT Ent 2019 LTSC / 2016 LTSB
Storage	SATA	1 x 2.5" HDD or SSD 1 x M.2 2242 (SATAIII interface)
I/O Ports	USB	on rear: 2 x USB 2.0 / 2 x USB 3.0 on side bezel: 1 x USB 2.0 (optional)
	Serial Ports	COM x 3+1(optional), RJ50 connector (support RI/5V/12V) COM1/2 support RI /5V /12V selectable under BIOS
	LAN	1 x RJ45
	VGA	1 x DB15
	HDMI	1 x HDMI
	Audio	1 x Mic In, 1 x Line Out
	Cash Drawer	1 x RJ12 (+12V or +24V selectable)
	HDD Slot	1 x HDD maintenance slot
	DC In	1 x 4pin DC power jack
	DC Out	1 x 12Vdc out (3-pin) for 2nd display (optional)
Add-ons	Customer Display	VFD, 20 columns and 2 lines, each column is 5 x 7 dots
	Printer	2" or 3" easy loading thermal printer with auto-cutter
	Fingerprint	8-bit grayscale reader
	MSR & iButton	JIS I or II, ISO Track1+2+3
	2nd Display	Hang on back 8" , 10.4" , 15" LCD / Standalone: 15" LCD
Display	LCD	15" TFT LCD
	Max. Resolution	1024 x 768
	Brightness	300 cd/m²
	Touchscreen	Bezel-free 5-wire analog resistive or projected capacitive
Environment	EMC & Safety	CE / FCC
	Temp.	Operating: 0°C ~ 35°C / Storage: -5°C ~ 60°C
	Humidity	20% ~ 90%

System View

Unit: mm

Front View

388

300

Side View

94

55

REAR I/O

HDD

USB 2.0
Cash Drawer
USB 3.0
LAN
HDMI
COM3
COM2
COM1
DC-IN

VGA　Line Out　Mic In

Option:
Printer Power or
Power USB or
COM4

Option:
2nd Display
Power

SIDE I/O

Power Button

USB5 (option)

Easy Maintenance

Installing Power Adaptor

Step. 1 Fasten 2 x M4 screws to secure the adapter holder onto the rear of PA-J670 PPC.

Step. 2 Install the Power Adaptor onto the adapter holder as shown:

Step 2. Install 60W Power Adatpor

Adatpor Holder

← PA-J670 PPC

Step 1. Fasten 2 x M4 screw.

The PA-J670 Power Adaptor installation is completed.

COM Port Voltage Selection

Voltage of external "COM1" & "COM2" ports are made to control on BIOS for your convenience.

```
Aptio Setup Utility - Copyright (C) 2019 Amer
  Advanced

  Serial Port 1 Configuration

  Serial Port                    [Enabled]
  Device Settings                IO=2F8h; IRQ=3;

  Change Settings                [Auto]

  COM Voltage                    [Ring]
```

BIOS Setting	Options	Description
COM Voltage	-Disabled -12V -5V	Disable or select COM1 Voltage 12V/5V

M/B: PB-A900

DRW1 USB3_1 USB1 LAN1 HDMI1 COM3 COM2 COM1 DC_IN1

COM2_1 COM1_1

JP11

JLPC1

TOUCH1

JP9 JP8 JP7

JP_USB5
JP_USB3_2
JP_USB3_2
JP_USB3_1 SW1

I-BUT1

COM4

OUT12V_1

JINV1

JP_VDD1

FAN_1

M.2 SSD

JUSB7

M.2 Wi-Fi

M2_M

EDP1

M2_E

USB2

HS1 JAUD1 JP1 JSPK1 JP2 SP1 JP3 BAT1 SW2 LED1

Safety Precaution

The following messages are safety reminders on how to protect your system from damages, and extend the life cycle of the system.

1. Check the Line Voltage
- Make sure the operating voltage range is between 100V and 240V AC; otherwise, the system could be damaged.

2. Environmental Conditions
- Place your PA-J670 on a sturdy, level surface. Be sure to allow enough space around the system to have easy access needs.
- Avoid installing the system in extremely hot or cold places.
- Avoid exposure to sunlight for a long period of time or in an airtight room.
- Also, avoid the system from any heating device or using the PA-J670 when it has been left outdoors in a cold winter day.
- Bear in mind that the operating ambient temperature is between 0°C and 35°C (32°F~ 95°F).
- Avoid moving the system rapidly from a hot place to a cold place, and vice versa, because condensation may occur inside the system.
- Operate the PA-J670 in strong vibration may cause hard disk failure.
- Do not place the system too close to any radio-active device. Radio-active device may cause signal interference.
- Always shut down the operating system before turning off the power.

3. Handling
- Avoid placing heavy objects on the top of the system.
- Do not turn the system upside down. This may cause the hard drive to malfunction.
- Do not allow any objects to fall into this product.
- If water or other liquid spills into this product, unplug the power cord immediately.

4. Good Care
- When the outside case gets stained, remove the stains using neutral washing agent with a dry cloth.
- Never use strong agents such as benzene and thinner to clean the surface of the case.
- If heavy stains are present, moisten a cloth with diluted neutral washing agent or alcohol and then wipe thoroughly with a dry cloth.
- If dust is accumulated on the case surface, remove it using a special vacuum cleaner for computers.
- Do not replace the motherboard battery by yourself, or serious damage may occur.
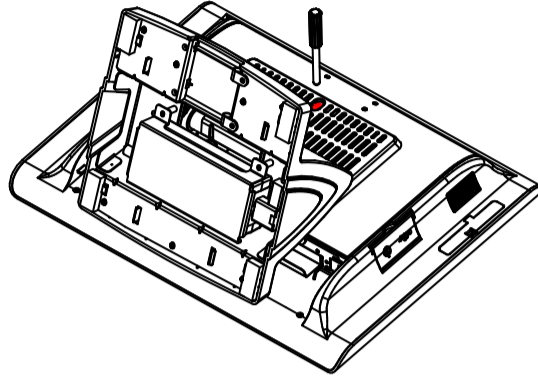
Step 1.

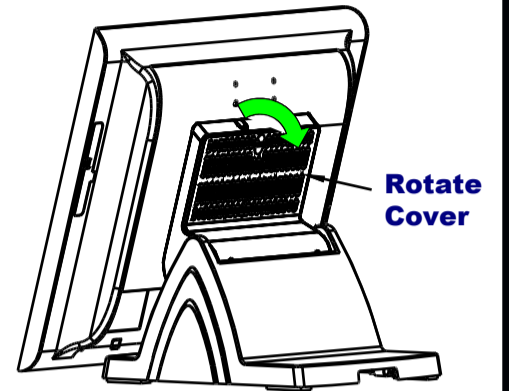Pull "the bracket" upwards.
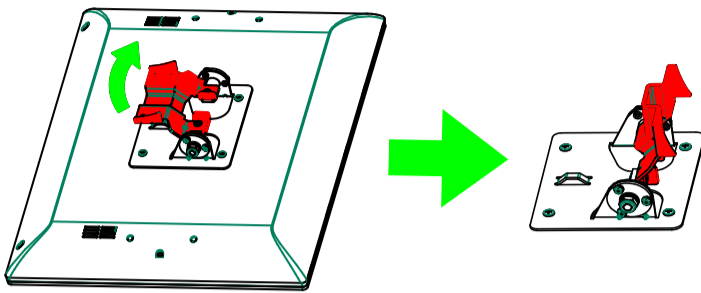
PN: PA-6722RZ-51B~54B

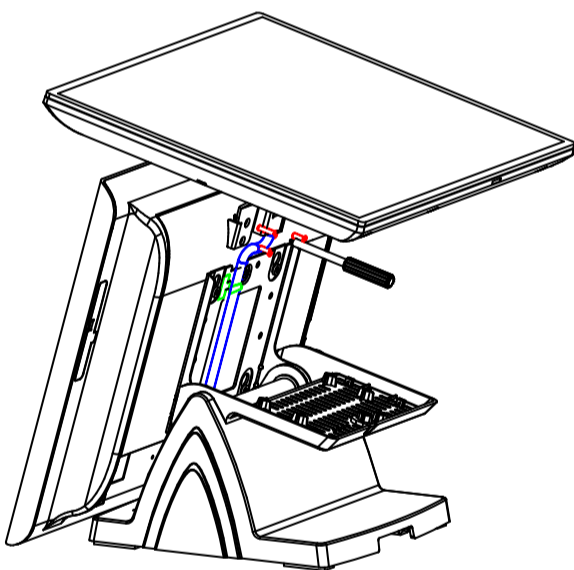**PN: PA-6722RZ-5AB~5DB**
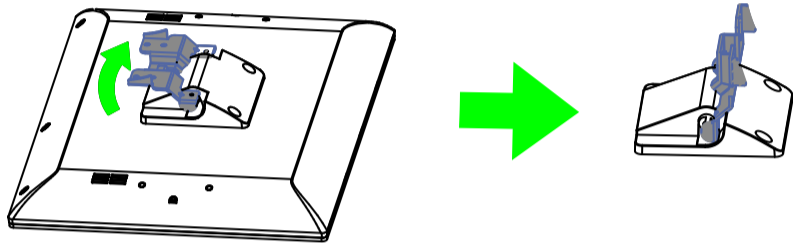
Step 2.

Release the stand screw (red).

Step 3.

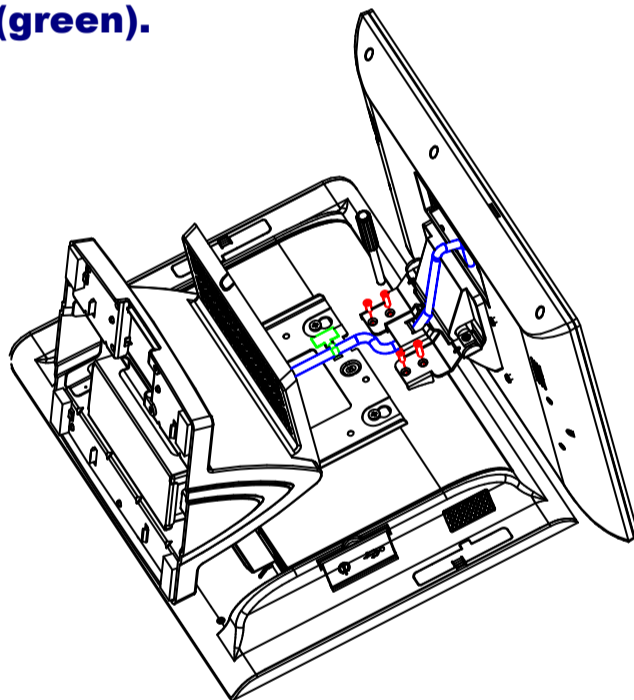Rotate and open the Rotate Cover as shown by the arrow (green):

Rotate Cover

Step 5.

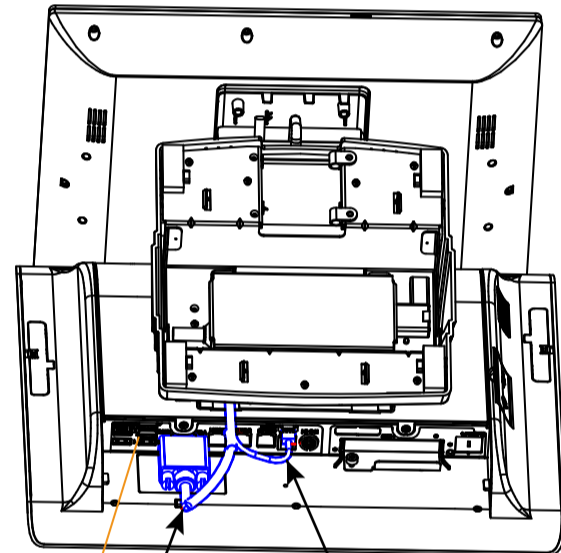Plug VGA cable to VGA port and Power cable to 2ND-DIS-PWR port on rear I/O panel of Panel-PC.

Step 4.

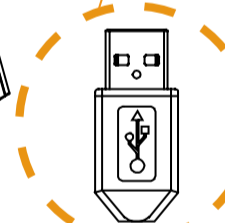Secure 4 screws of 2nd display kit onto Panel-PC and wire VGA and Power cables on. Fix the cable (blue) with the cable clamp (green).

VGA Port   2nd_DIS_PWR Port

Plug the USB signal cable if the 2nd-Display is built with Touchscreen.

Vertical View

Horizontal View

Step 6.

Close the Rotate Cover. See the arrow (green):
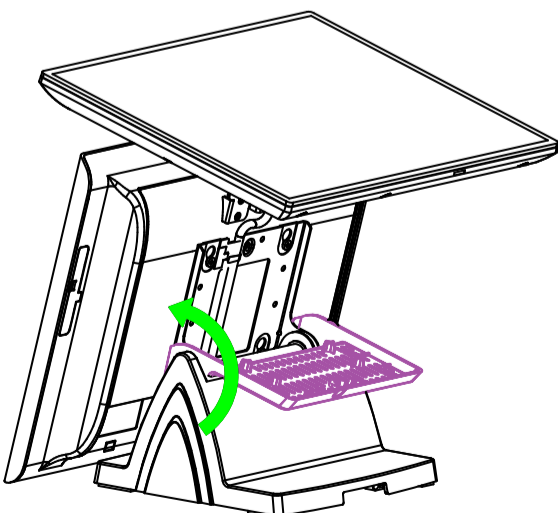
Step 7.

Tighten back the screw (red) of the stand module to fix Rotate Cover onto Panel-PC.
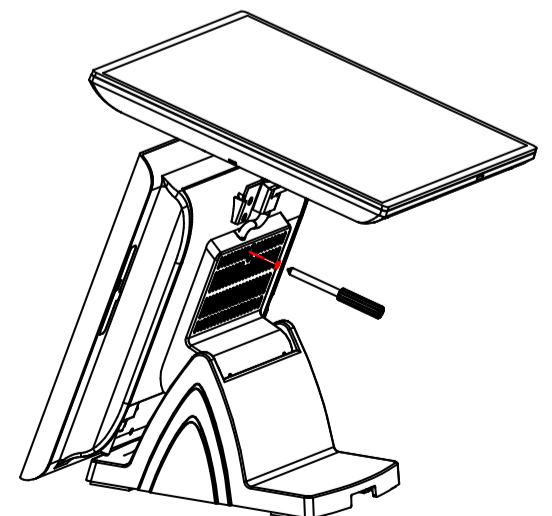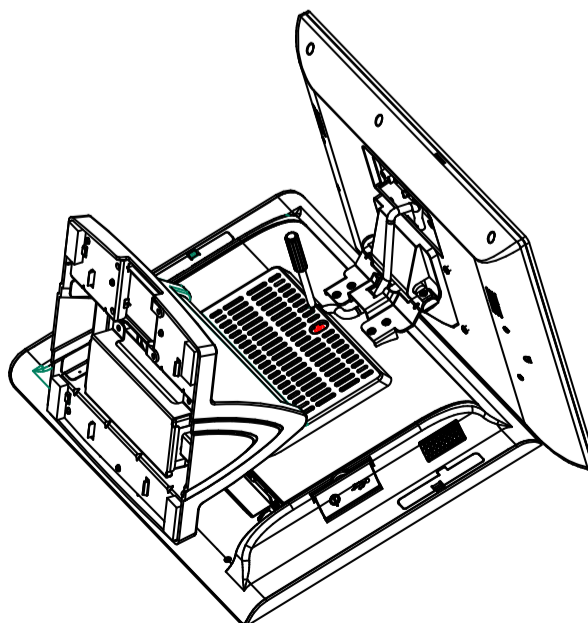
The 2nd-Display assembly is finished.

Easy Stand

Step 1.
Pull "the bracket" upwards.

PN: PA-6722RZ-51B~52B
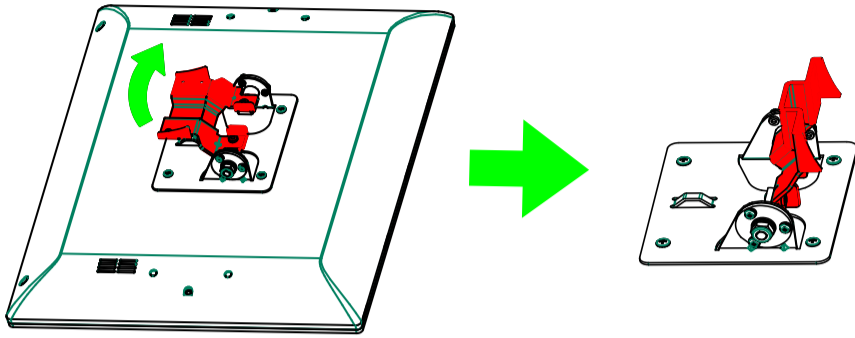
PN: PA-6722RZ-5AB~5BB
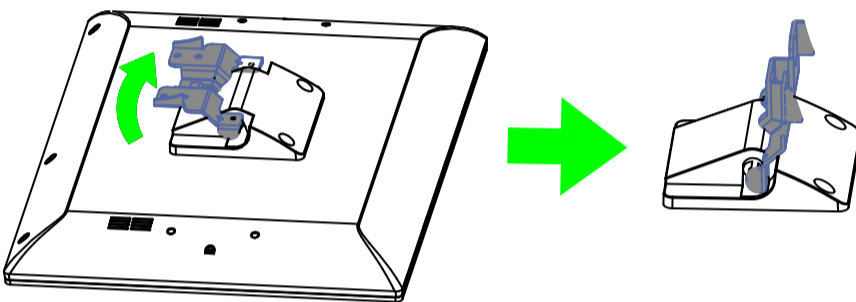
Step 2.
Screw the "2nd-display kit" onto the back of Panel-PC.
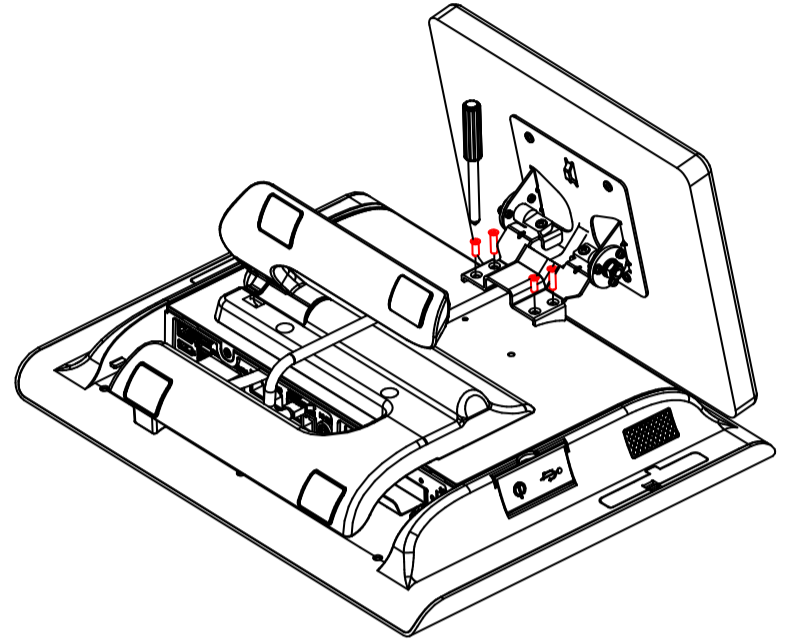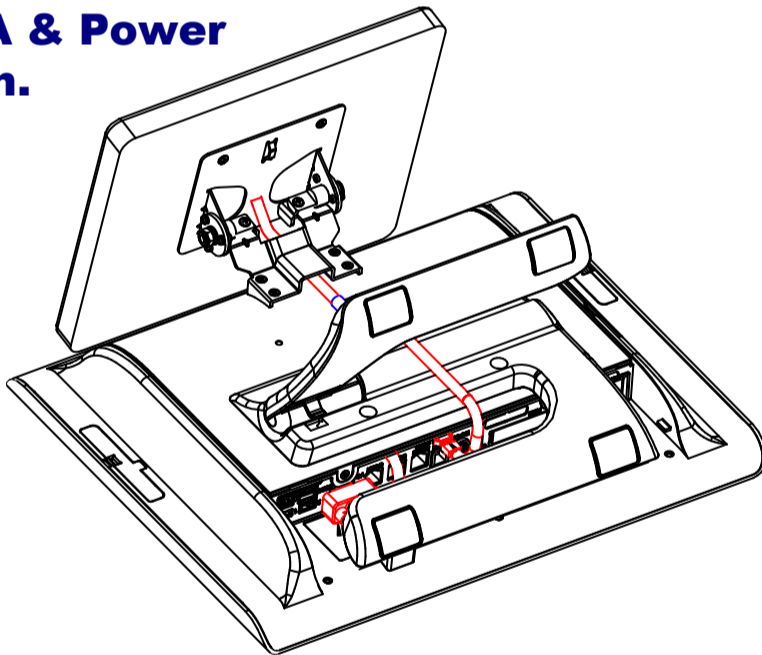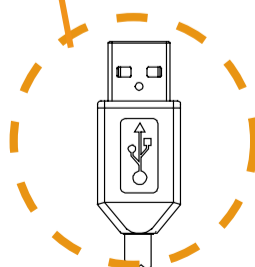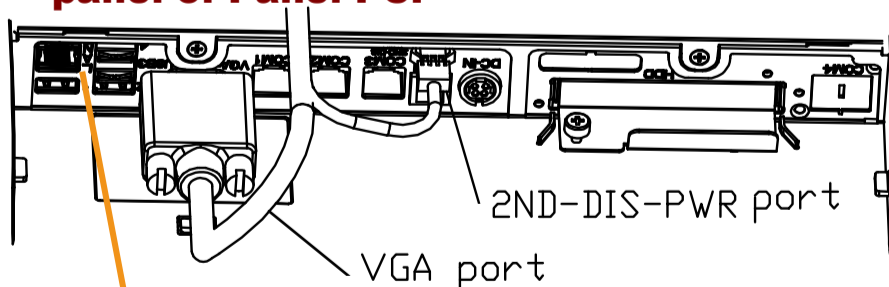
Step 3.
Wire VGA & Power cables on.

Step 4.
Fix the cable with the cable clamp (blue).

Plug the VGA & Power cables to rear panel of Panel-PC.

2ND-DIS-PWR port

VGA port

Plug the USB signal cable if the 2nd-Display you are using is built with Touchscreen.
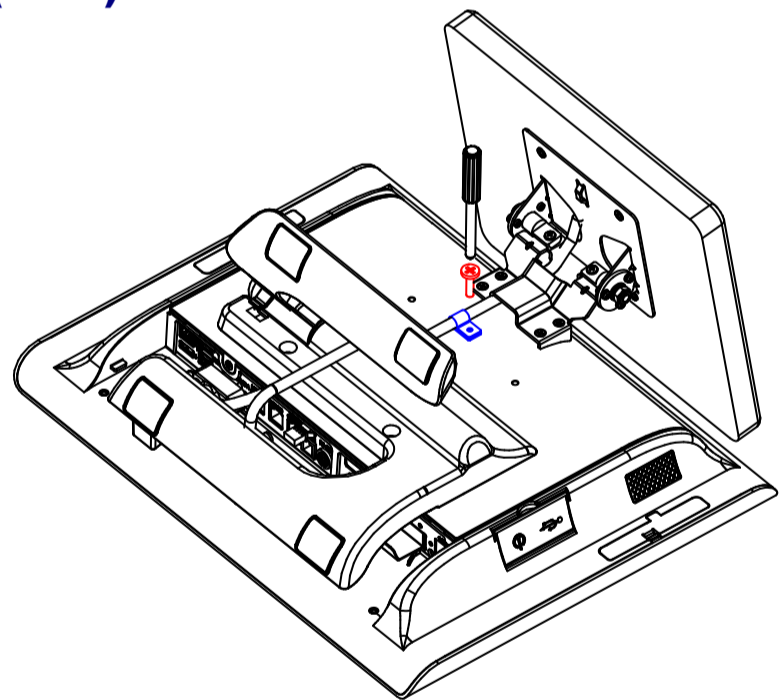
Step 5.
Put the system in an upright position to finish the assembly.
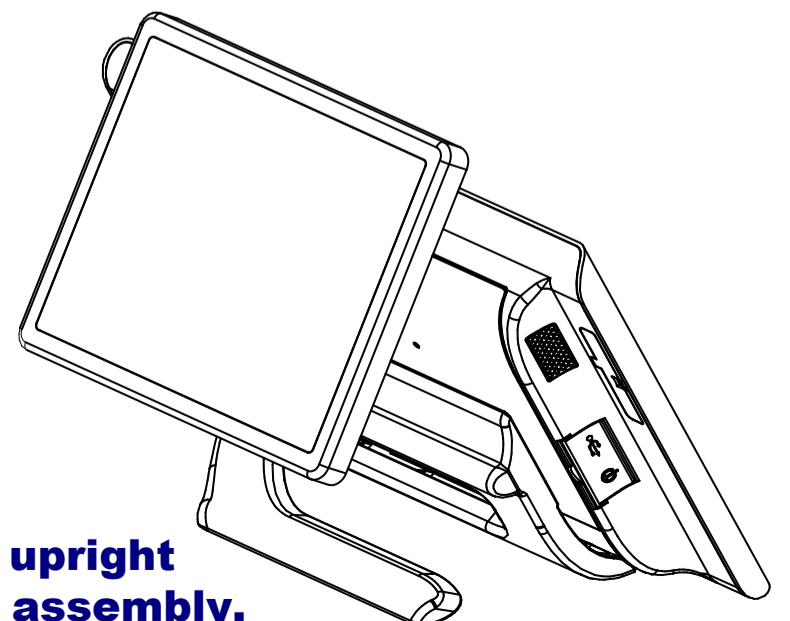
Step 1. Pull "the bracket" upwards.
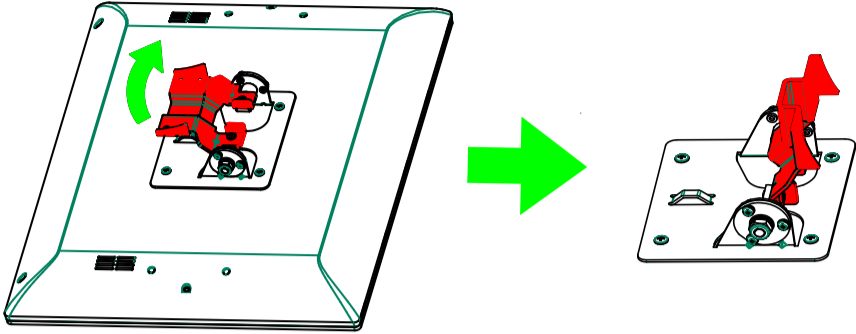
PN: PA-6722RZ-51B-54B

PN: PA-6722RZ-5AB-5DB
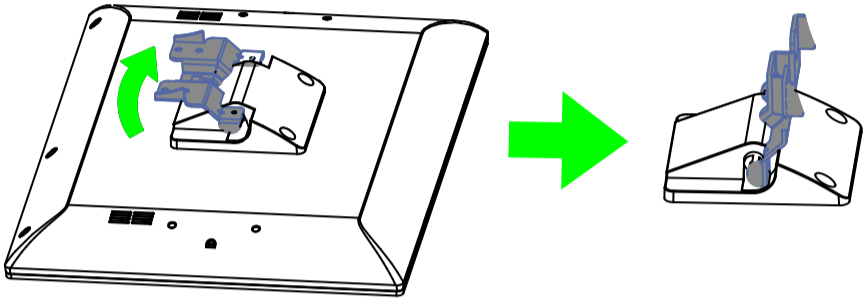
Step 2.
Lay the SYSTEM on a clean flat and release "Rotate Cover" fixing screw & remove the cover as shown:
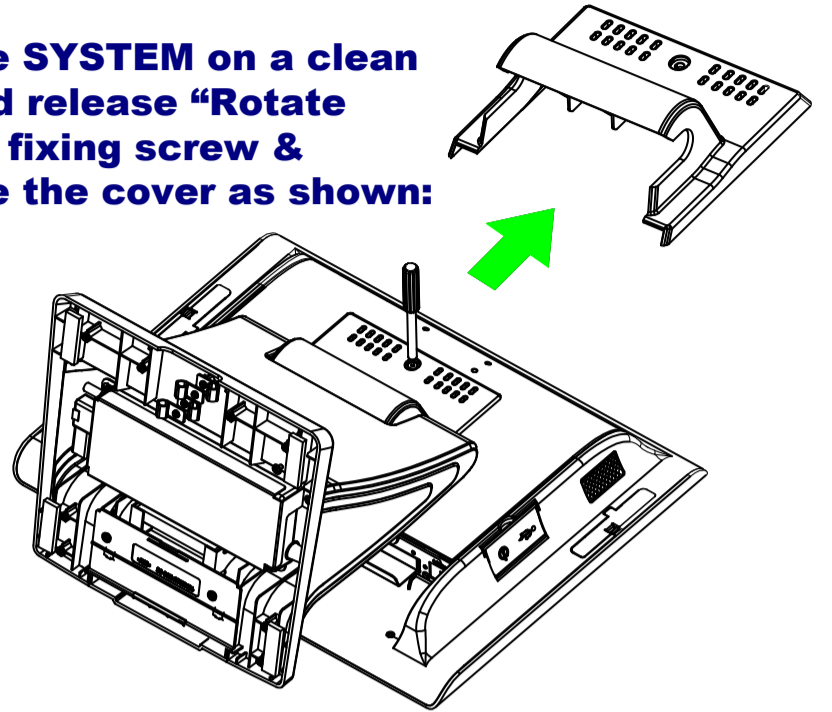
Step 3.
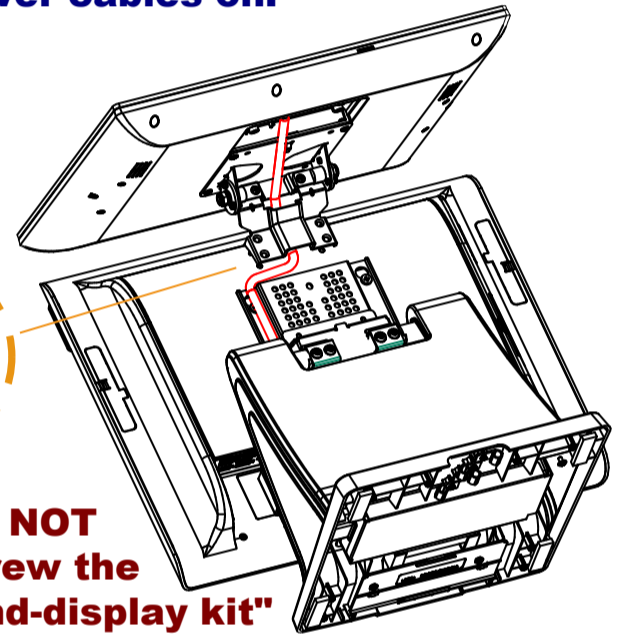**Wire VGA & Power cables on.**

Step 4.
Assemble back the Rotate Cover as shown:
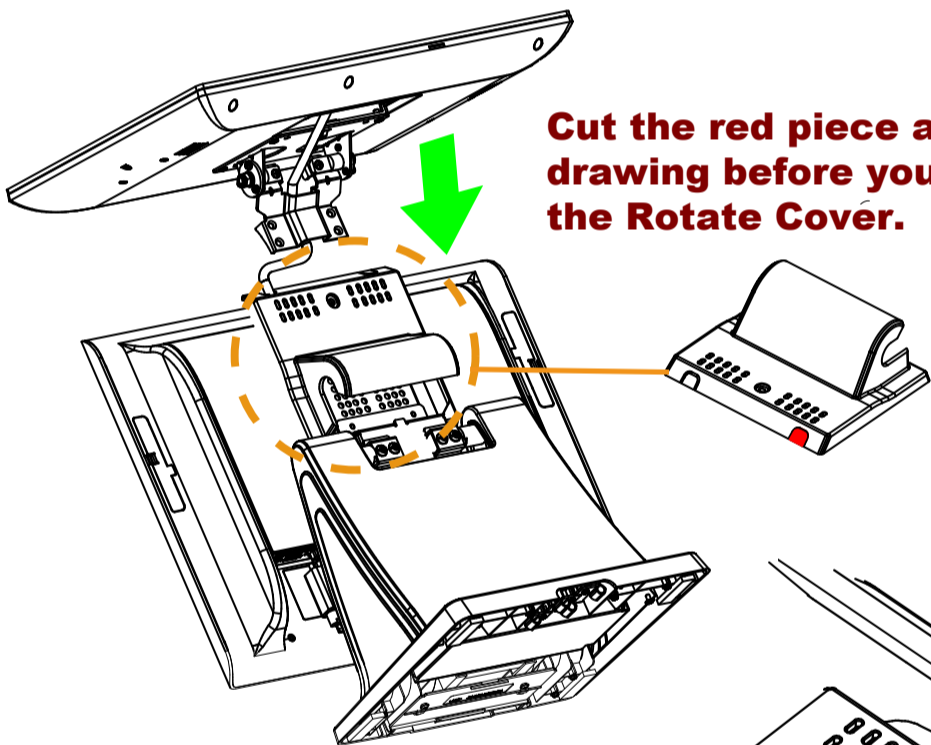
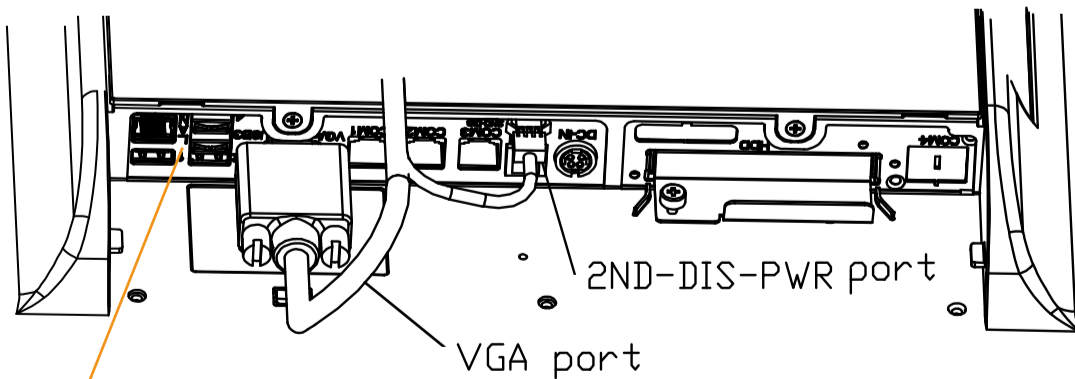**Cut the red piece as under drawing before you assemble the Rotate Cover.**
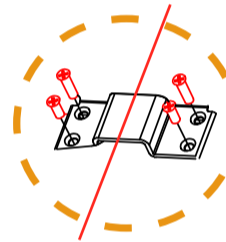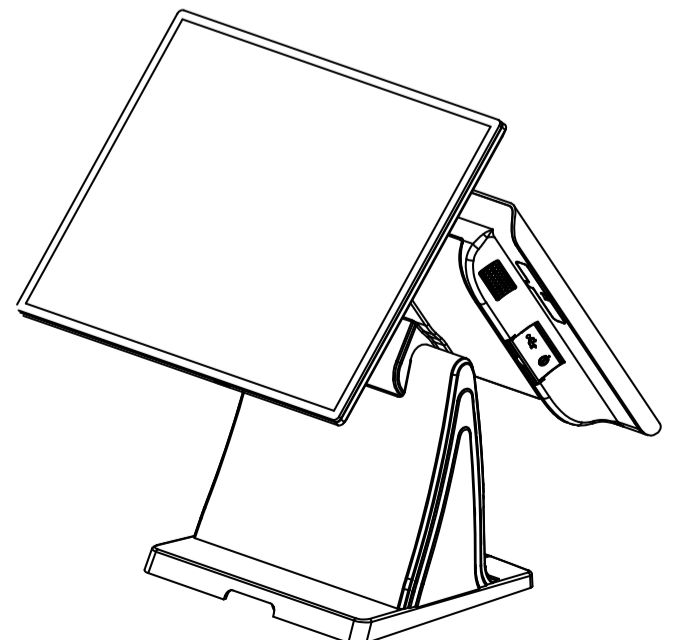
DO NOT screw the "2nd-display kit" on Panel-PC at this step.

Side view
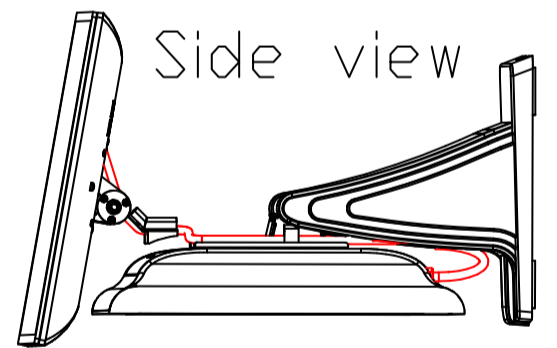
Step 5.
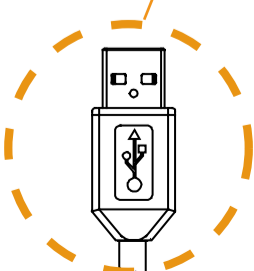**Screw the "2nd-display kit" & "Rotate-cover fixing screw" onto Panel-PC.**

Step 6.
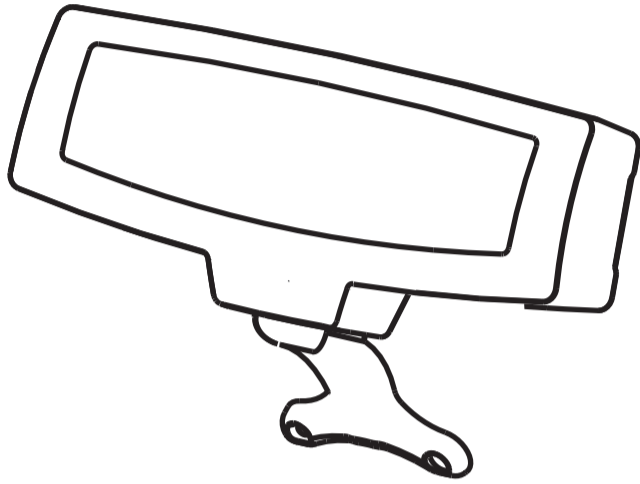**Plug the VGA & Power cables to rear panel of Panel-PC.**

Step 7.
Put the system in an upright positon to finish the assembly.

2ND-DIS-PWR port

VGA port

Plug the USB signal cable if the 2nd-Display you are using is built with Touchscreen.

EasyStand PA-J670 VFD Installation

Ver. Q1

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PA-J670 VFD Installation

If you discover any item below was damaged or lost, please contact your vendor.

VFD Packing List

☑ VFD Kit (Assembled Cable) X 1
☑ EVA Sponge X 4
☑ This Quick Reference Guide X 1

PA-J670 VFD Installation

Set BIOS For VFD Power Supply

1-1 When the system is powered on, the BIOS will enter the Power-On Self-Test (POST) routines and the following message will appear on the lower screen:

As long as this message is present on the screen, you may press the <Del> key to access the Setup program.

1-2 Move the cursor by up/down keys to highlight the [Advanced]
=> [F81966 Super IO Configuration]
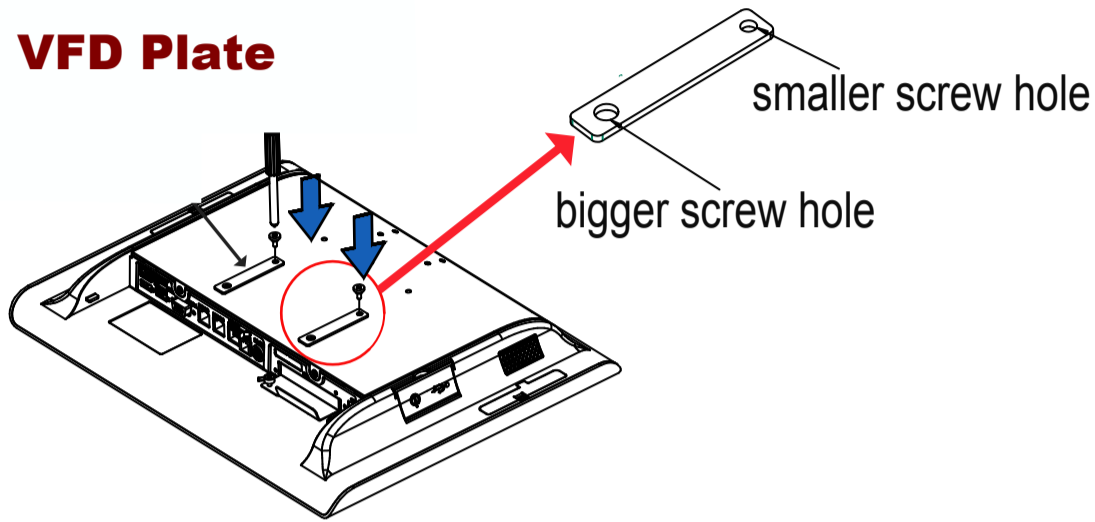=> [Serial Port 1 Configuration]
=> [COM Voltage]
menu items.
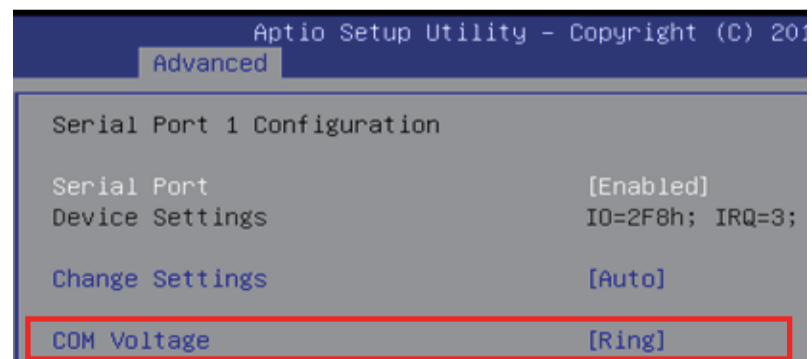
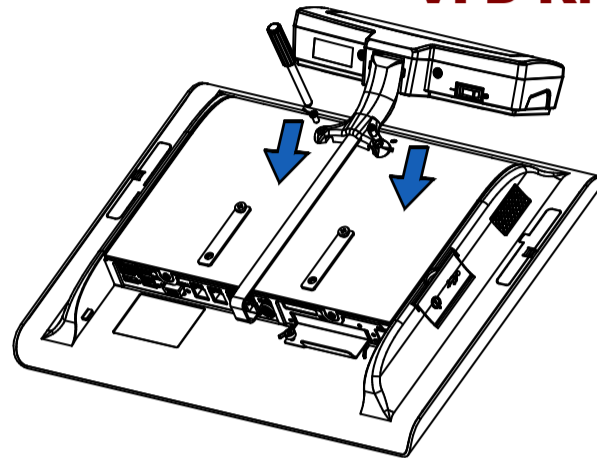1-3 Move the cursor to [COM Voltage], change the COM1 setting to [12V] from [Disabled].

PA-J670 VFD Installation

Step 1
Lay Panel PC on a clean plate and tighten 2 screws to fix VFD plate onto the back of Panel PC.

Step 2
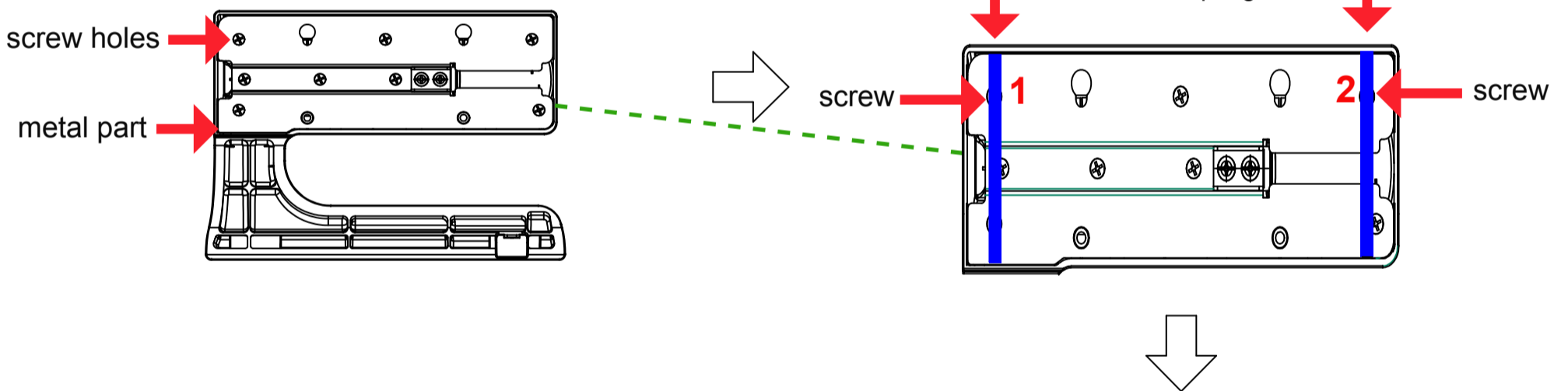Screw "VFD Kit" on Panel-PC and wire the "VFD cable" as drawing.

VFD Plate

smaller screw hole

bigger screw hole

VFD Kit

Step 3
Put the stand module in the position as shown below:

Stand module without EVA sponge pasted.

screw holes

metal part

Step 3-1
Paste "EVA sponge" (blue) x 2 pcs over the screws. See 1, 2 as shown below:

Paste the EVA sponge here.

screw   1   2   screw
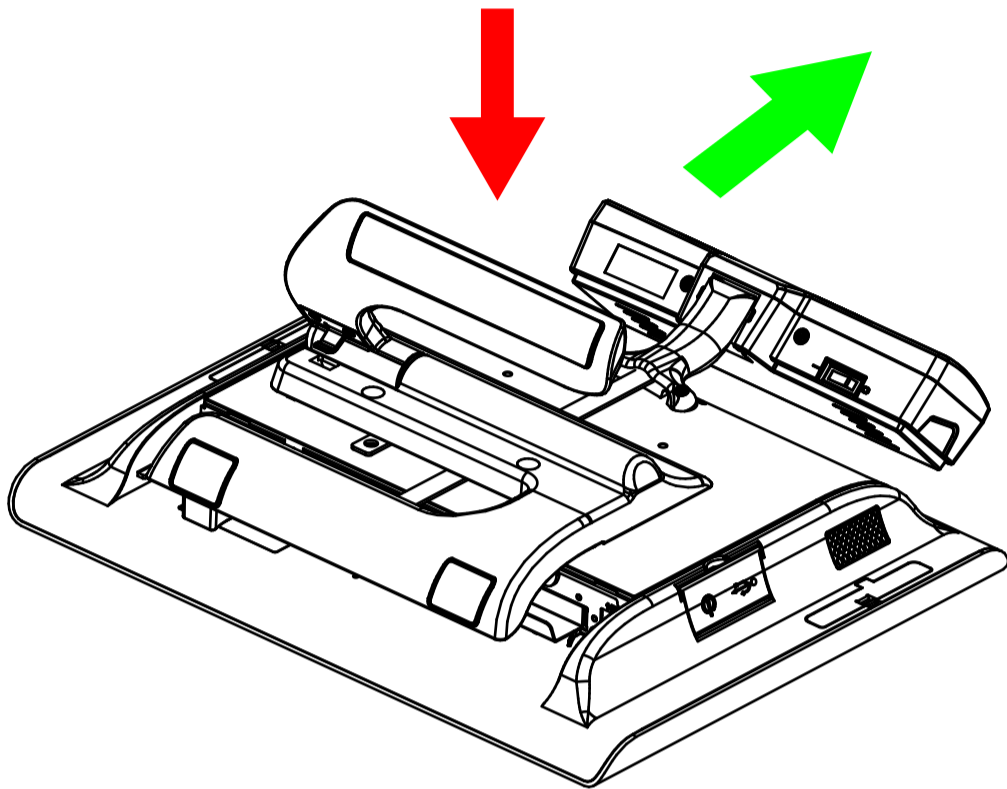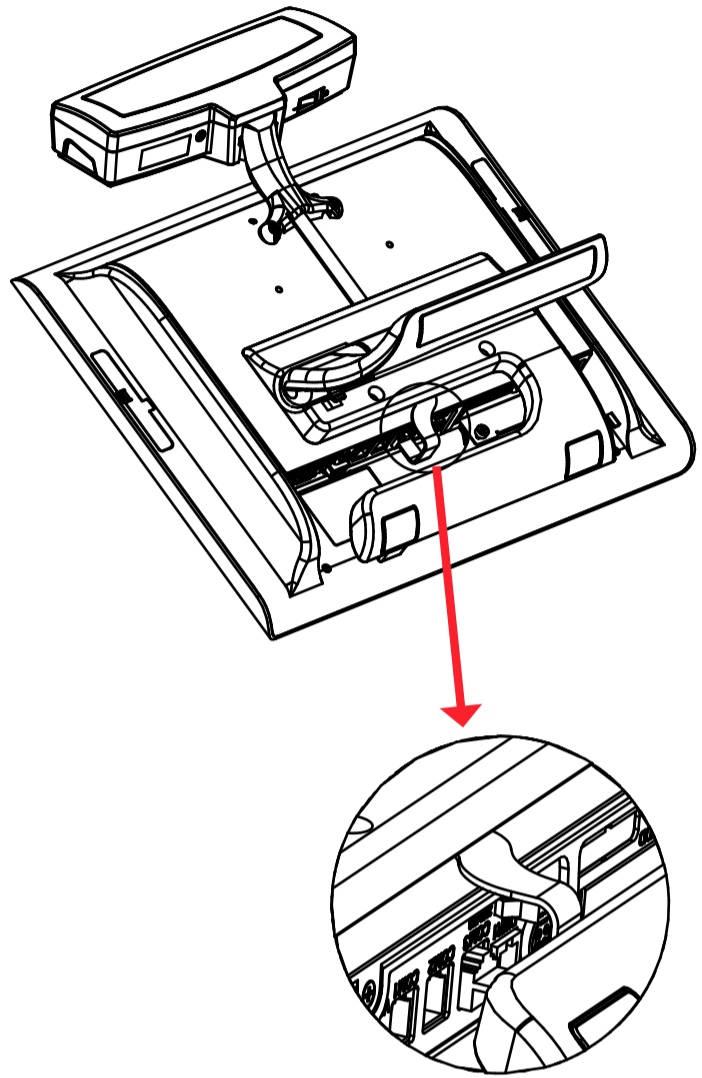
Step 3-2
Paste "EVA sponge" (blue) x 2 pcs along the edge of the upper side of the metal part of the stand module. See 3, 4 as marked below:
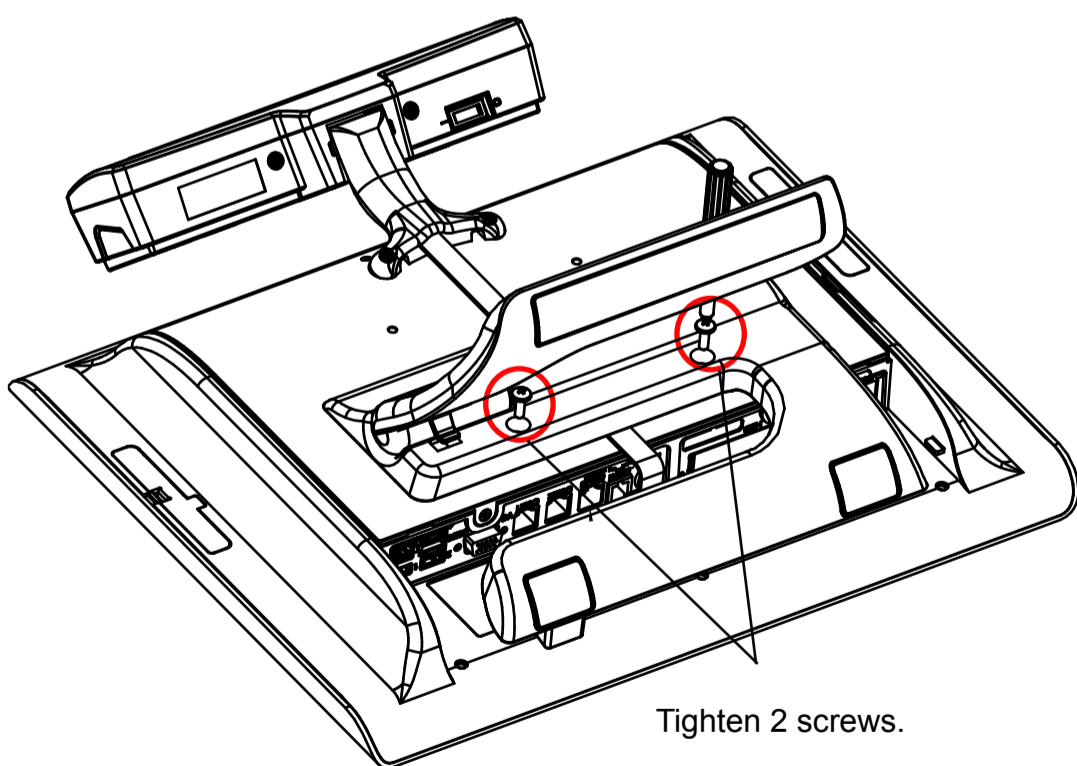
Paste the EVA sponge here.

metal part   3   4
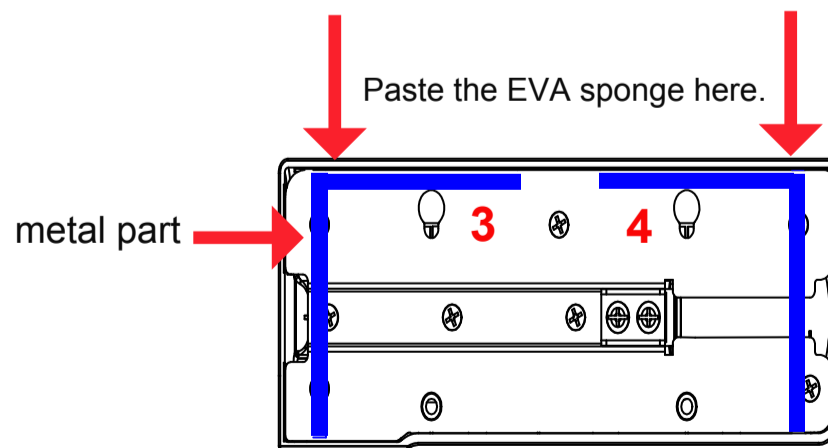
Step 4

Follow the arrow directions to assemble the "stand module" onto the back of the Panel-PC.

Step 5

Plug "VFD cable Connector" into COM3 port located on the rear side of Panel-PC.

Step 6

Tighten 2 screws into the screw holes to secure the stand module onto the back of Panel-PC.

Tighten 2 screws.

Step 7

The VFD Kit assembly is completed. Lift the system in an upright position.