

# PA322UHD Touch Panel Capability Specification

## 1. Space for Touch Panel

Below size is maximum size that vendor can use for touch panel.

Max Touch Panel size is

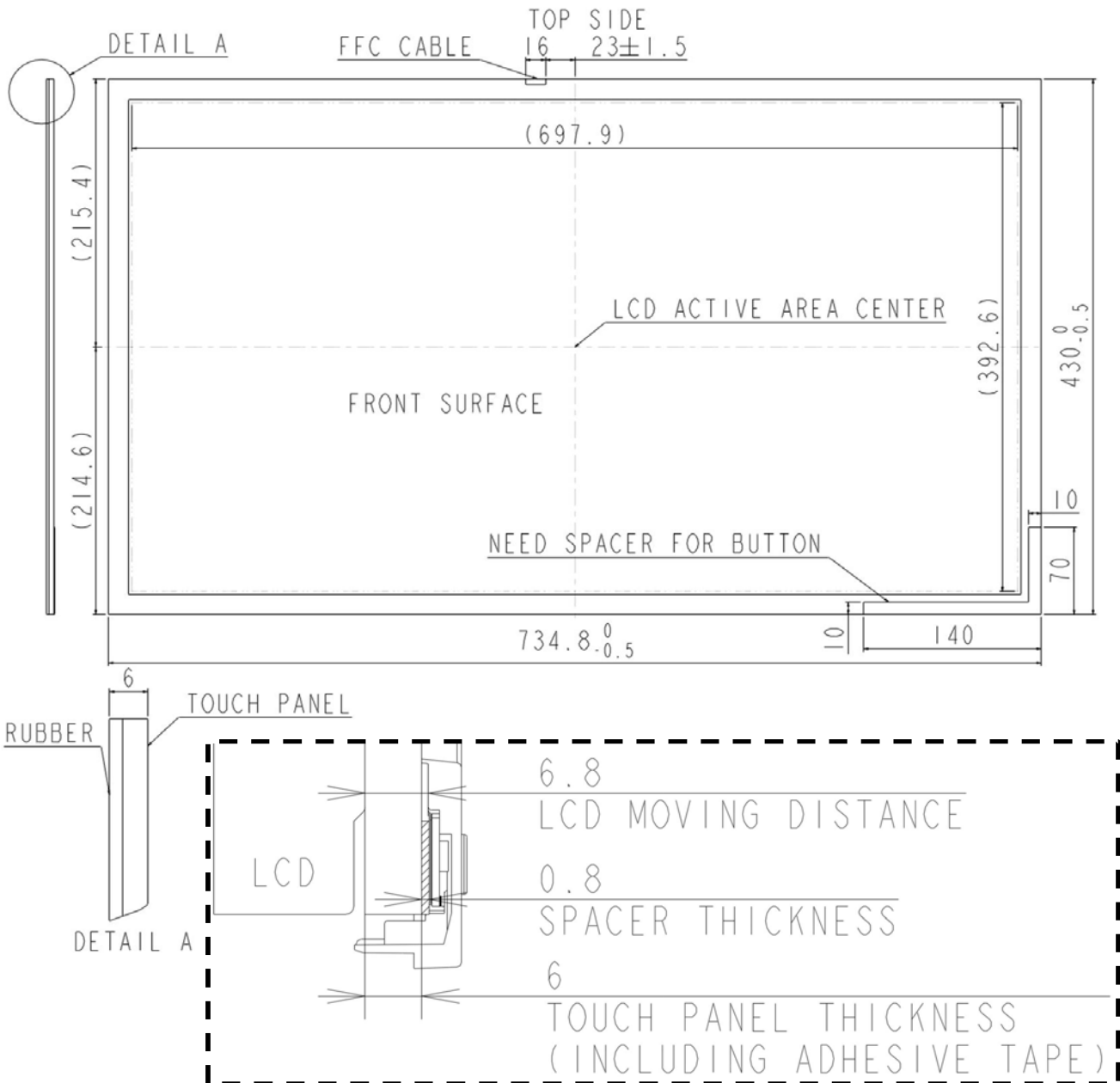
**734.8 (W) x 430 (H) x 6.0 (D) (mm)**

Note.

Width and Height is LCD Panel size.

Depth is Moving distance of LCD panel and calculated Bezel shift distance.

[ Thickness for "Touch panel" and "Rubber for touch attaching" ]



\*Spacer is needed for Control Button.

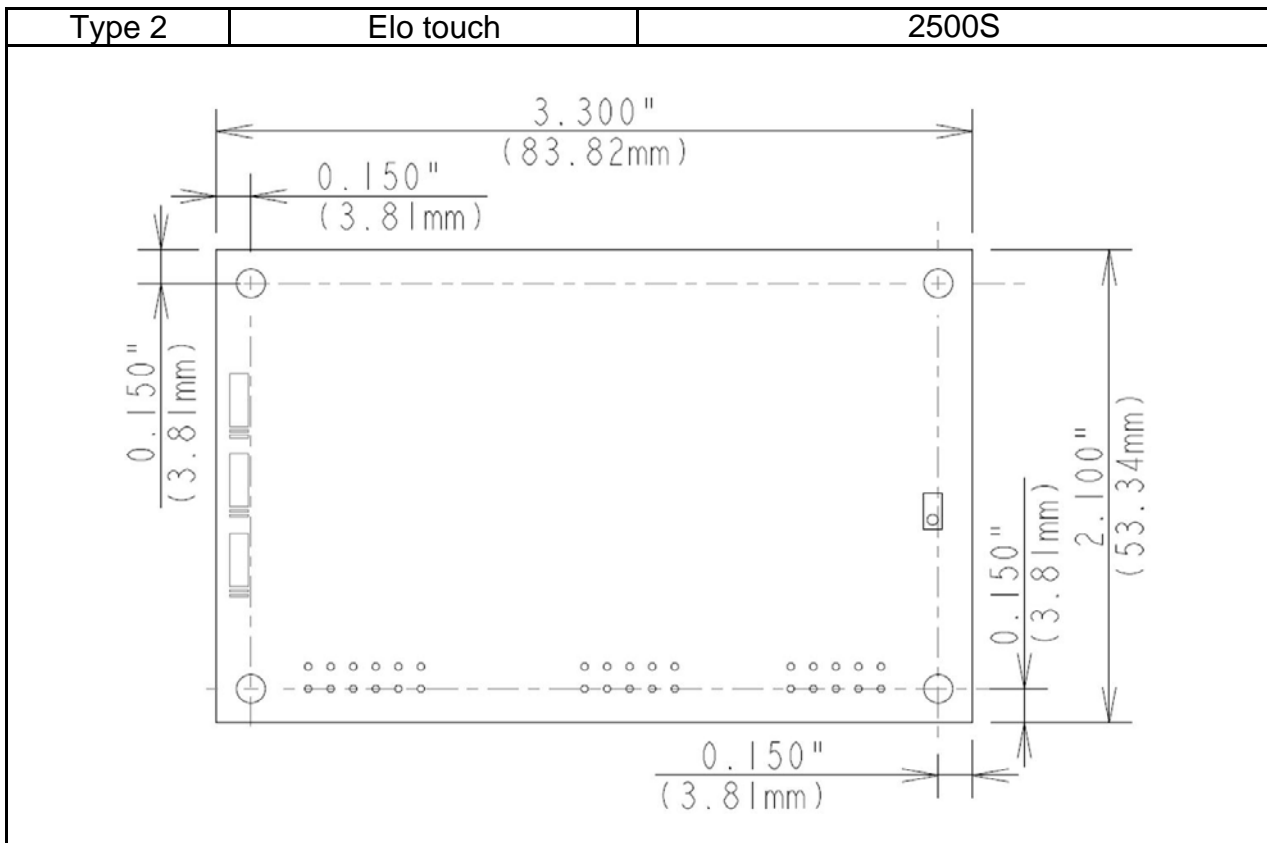
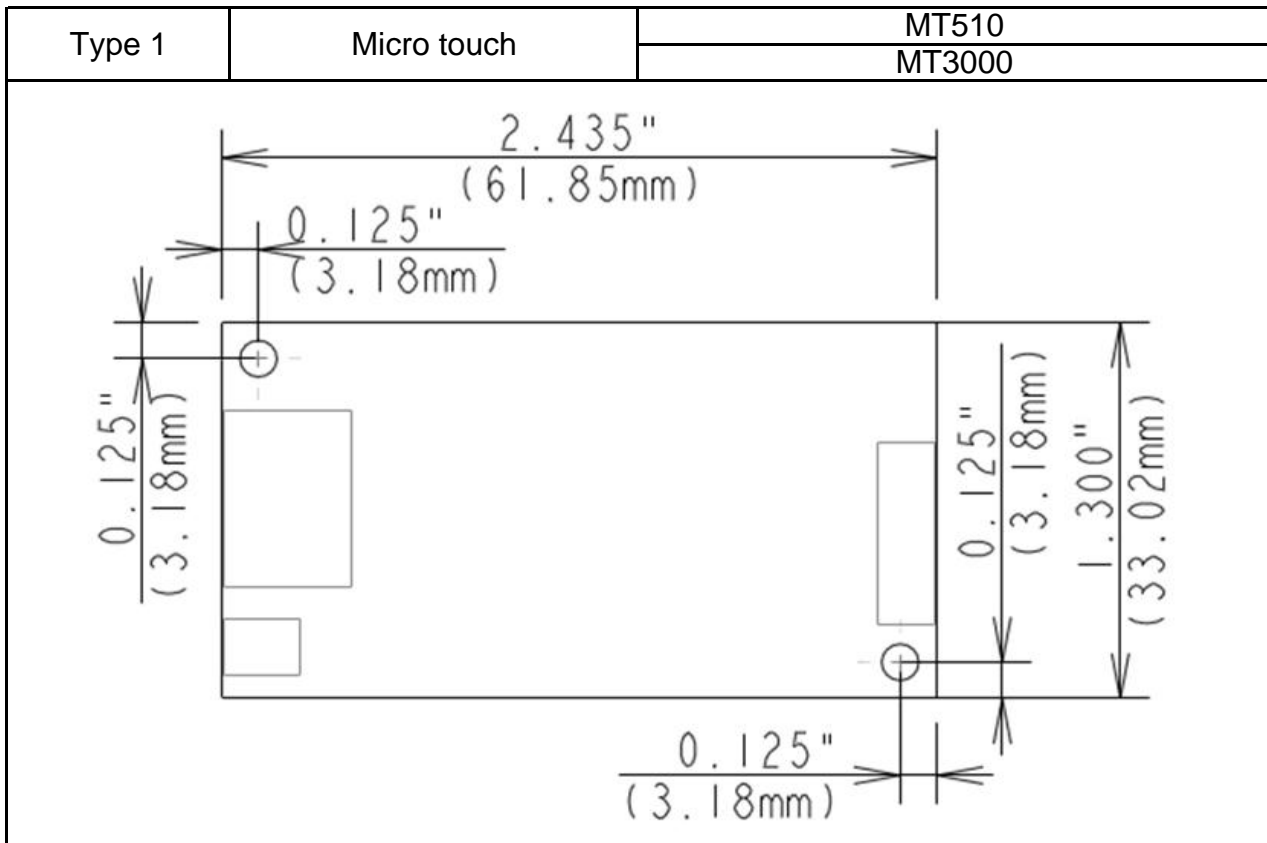
\*Section view about Control button

Paste spacer between Button PCB and Touch Panel.

**Spacer Thickness = 0.8mm**

## 2. Touch Control PCB Space Specification

This unit can equip below type of touch control PCB.



\*Only have PCB space and 2 screw holes, not have STUD and screw for mounting.

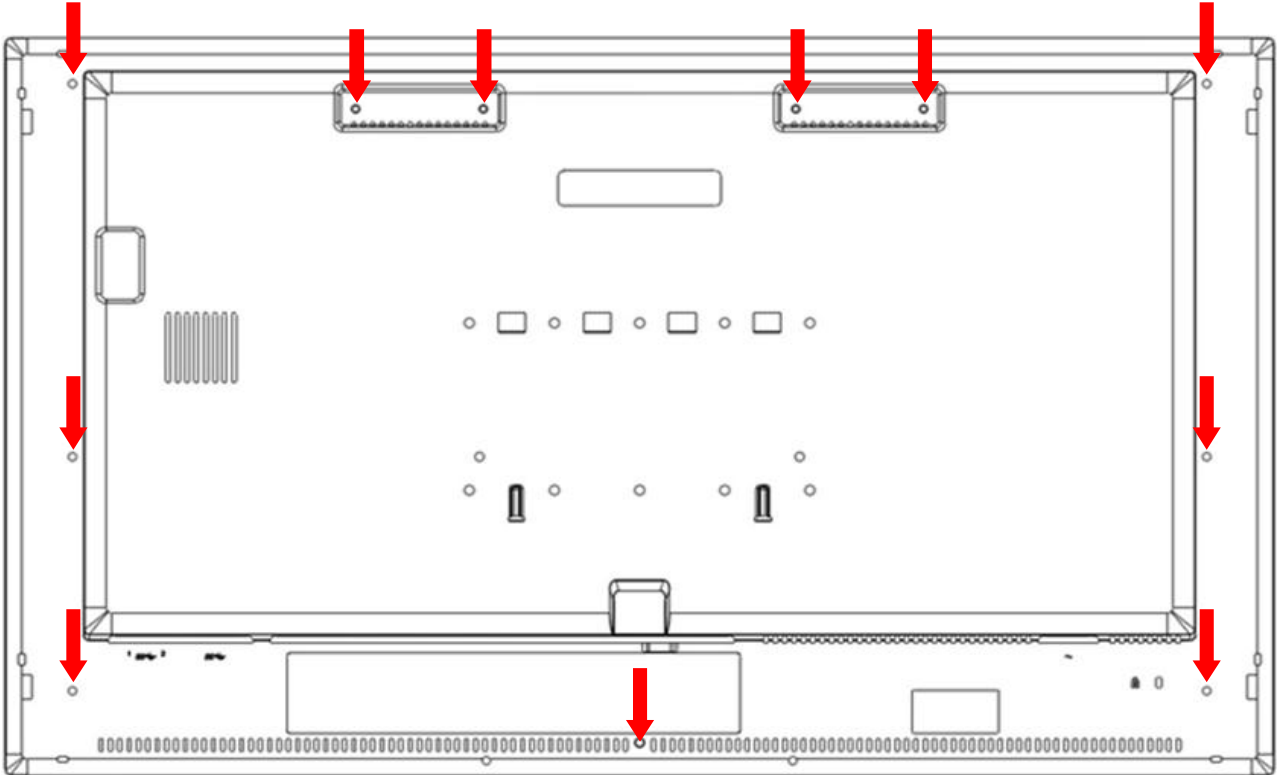
\*Can equip one PCB at same time.

\*Max component height should be less than 0.4".

### 3. Disassemble method

#### 3-1. Remove 11 screws that fastening Back cover

Remove screw



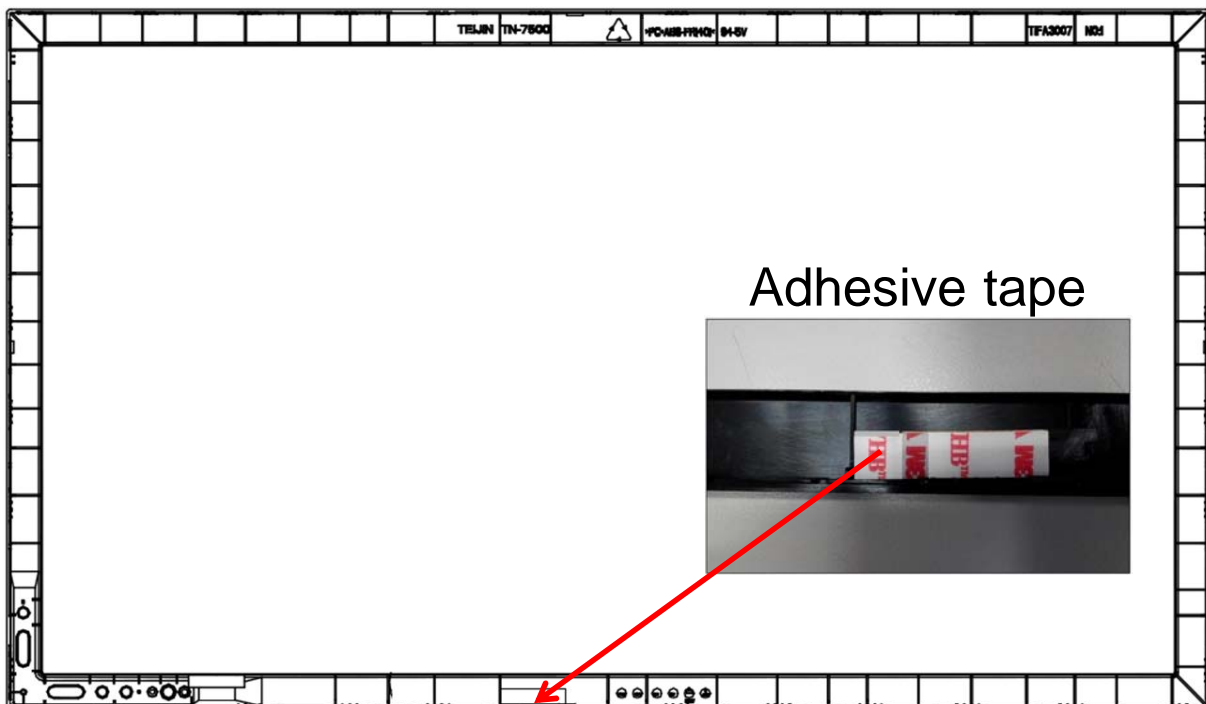
#### 3-2. Remove Bezel

Bezel pasted to Panel frame by Adhesive tape.

(Around bottom center)

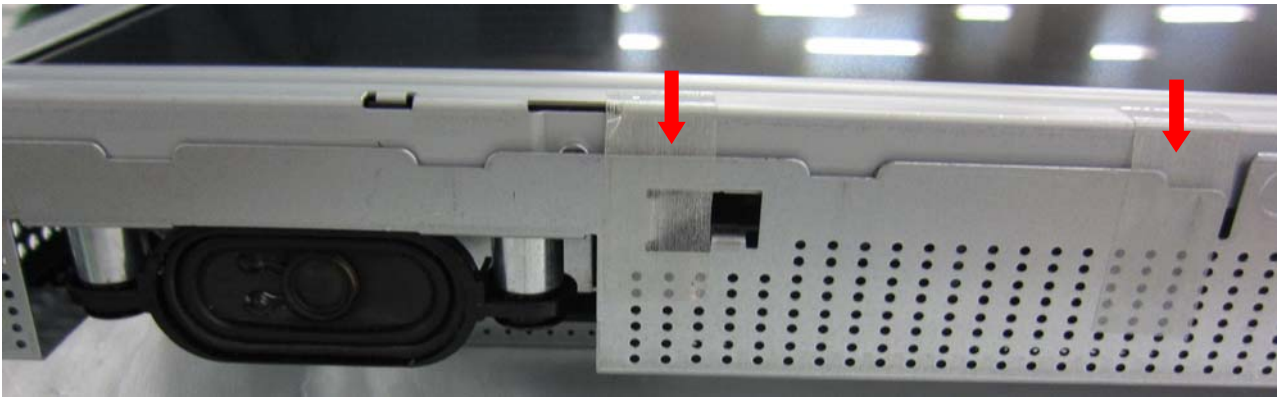
Button & cable need to take care.

Inside of Bezel



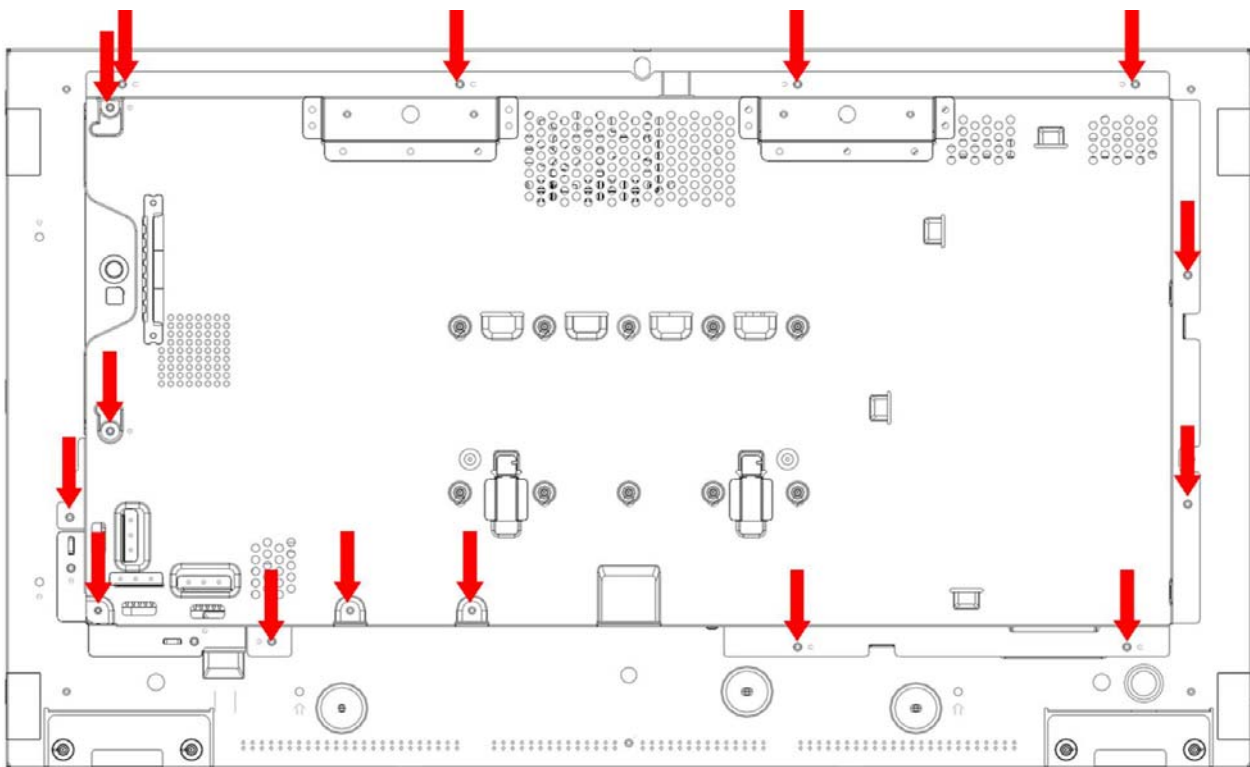
**3-3. Remove 2 Tapes that holding Panel**  
Peel off Tapes on Bottom-Left corner

↓ Remove Tape



**3-4. Remove 15 screws that fastening Shield**

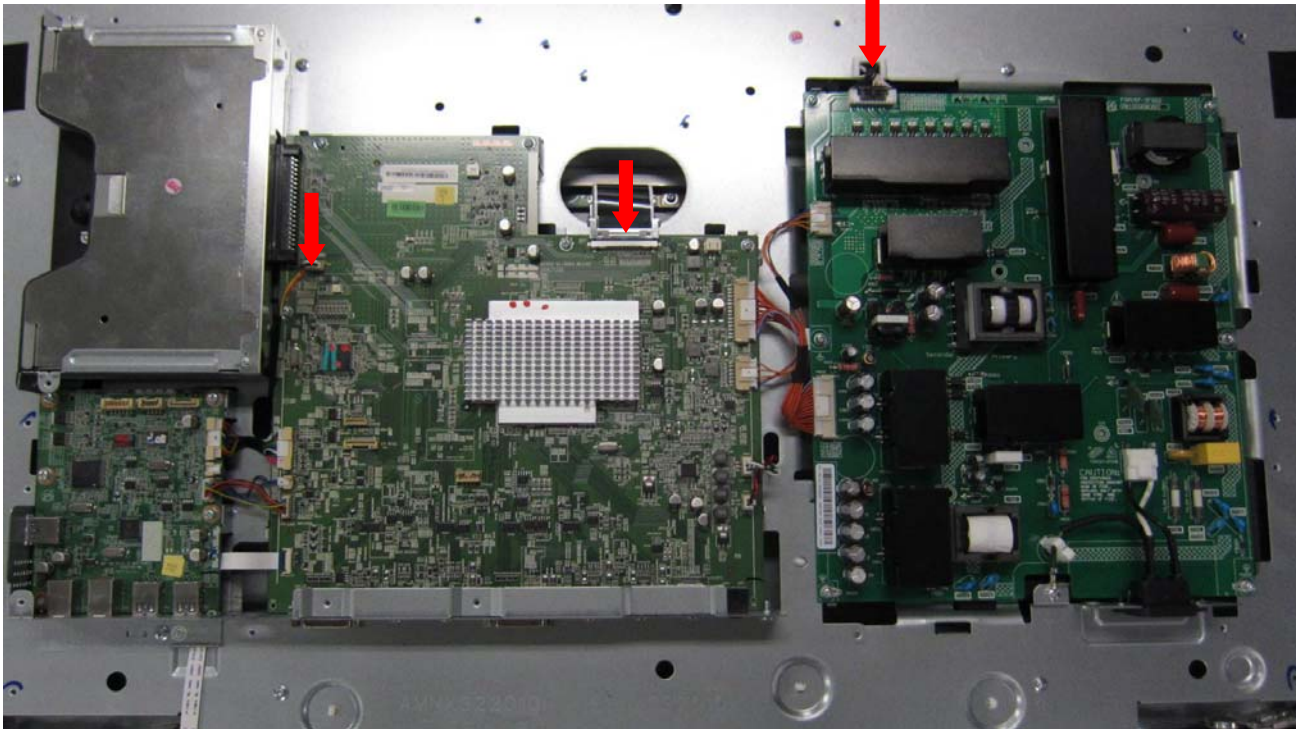
↓ Remove screw



### 3-5. Release Cable connector

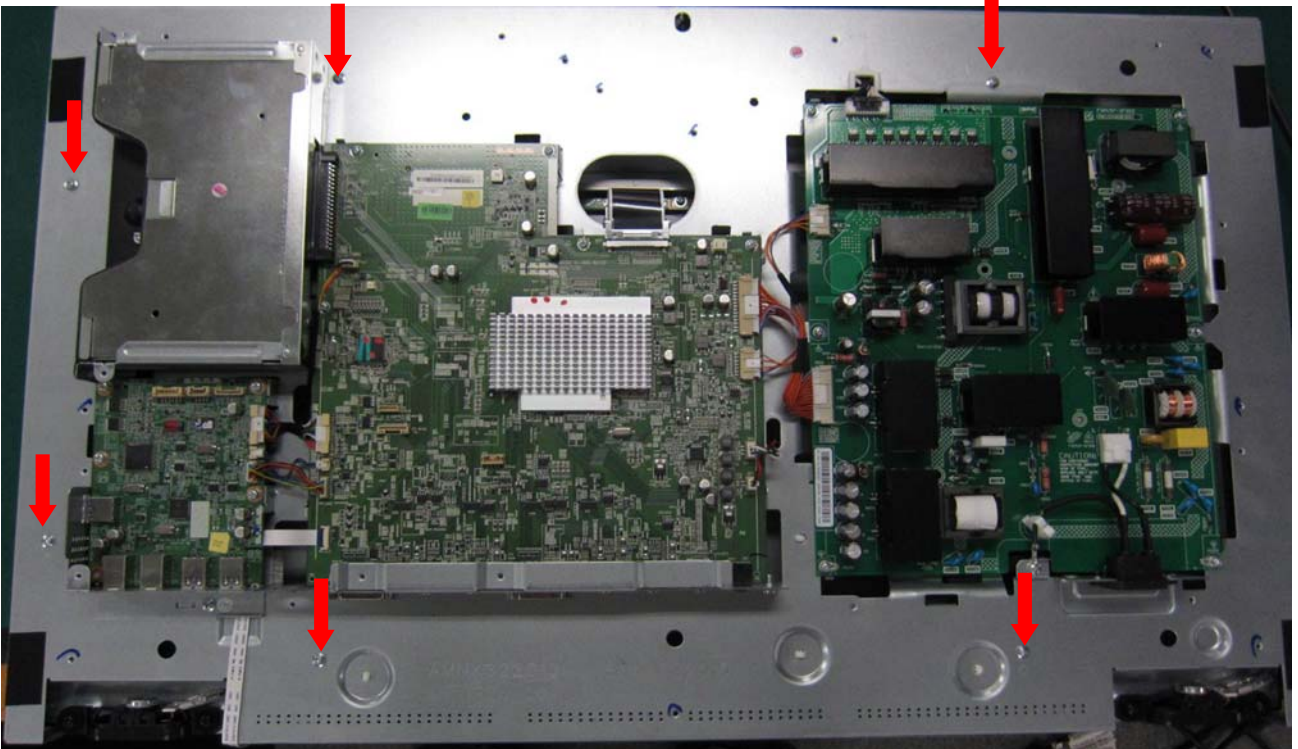
Release LVDS / Power LED / Backlight sensor Cable connector

Release connector



### 3-6. Remove 6 screws that fastening PANEL Stud

Remove screw



### 3-7. Remove Chassis

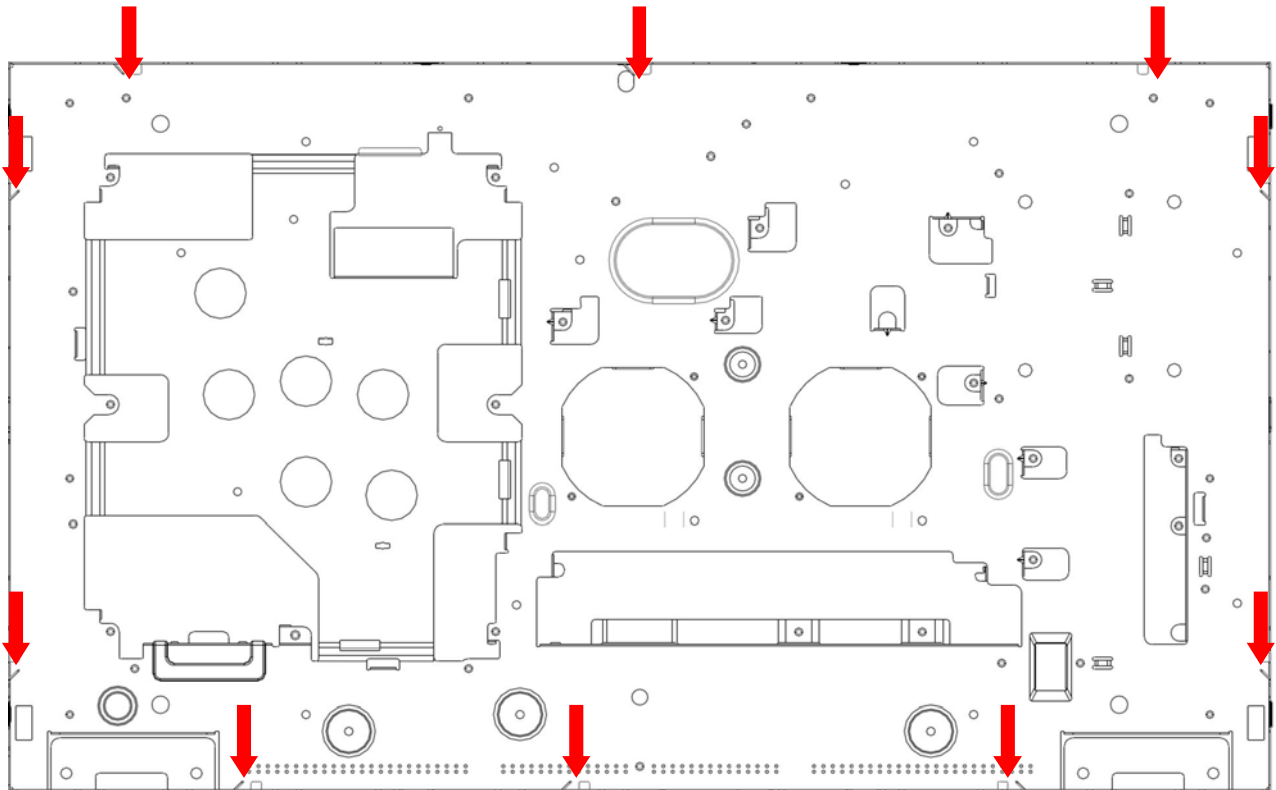
Take care for cables.

## 4. Moving LCD method / Inner Cable management

### 4-1. Cancel 10 Chassis Bending

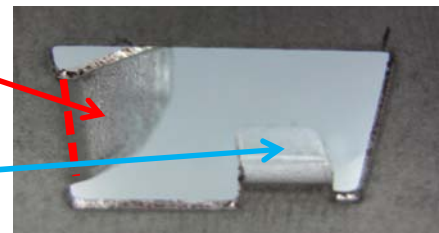
Chassis bending that hold panel back side are need to change to flat shape.

Cancel bending  
↓



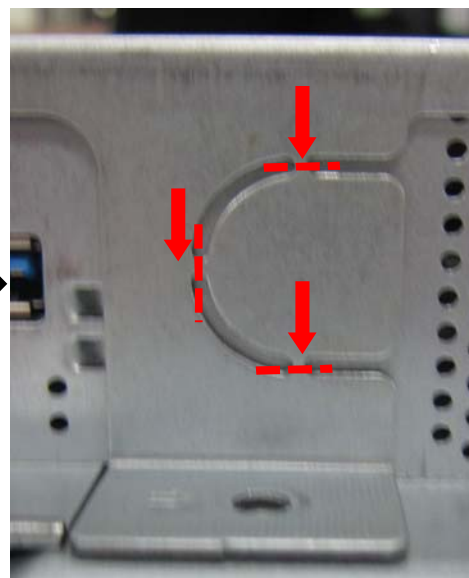
This bend need to change to be straight shape

This bend **do not** change shape



### 4-2. Cut Shield to make hole

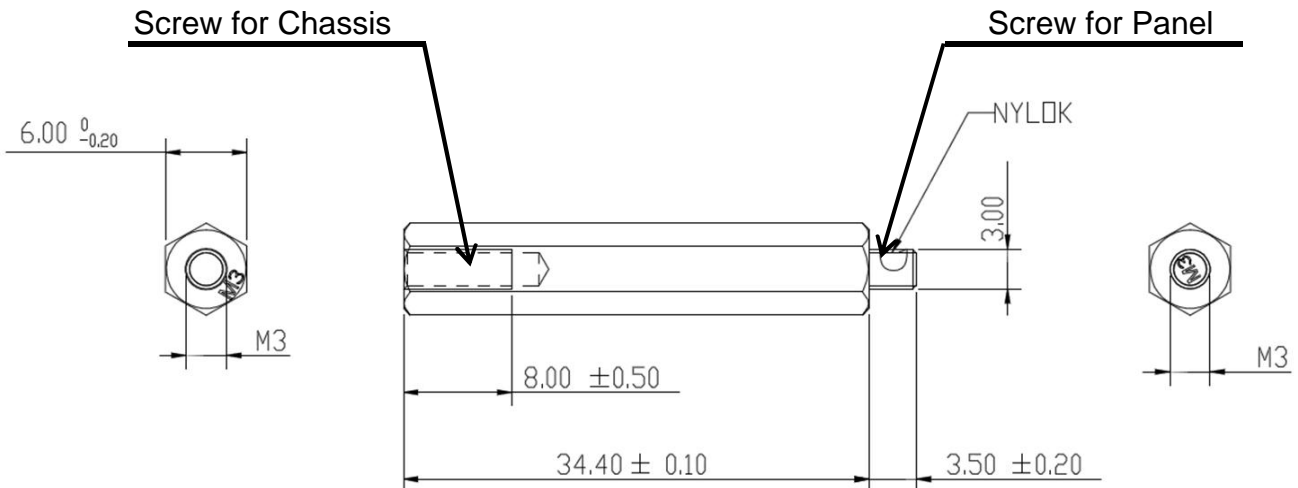
Shield has pre-cut hole, cut it completely.



### 4-3. Change 6 Panel STUD length

Current Length is 34.4mm (Refer to below drawing)  
Need to change to 27.6mm.

- \*This shorter stud is not in units.
- \*Screw for Panel need less than 4mm.
- \*Screw for Chassis need more than 8mm.
- \*Fastening Torque should be 4 to 5 kgf cm



### 4-4. Assemble chassis

Refer to "3-6", and assemble chassis  
Screw fastening torque is 6.4 to 7.4 kgf cm

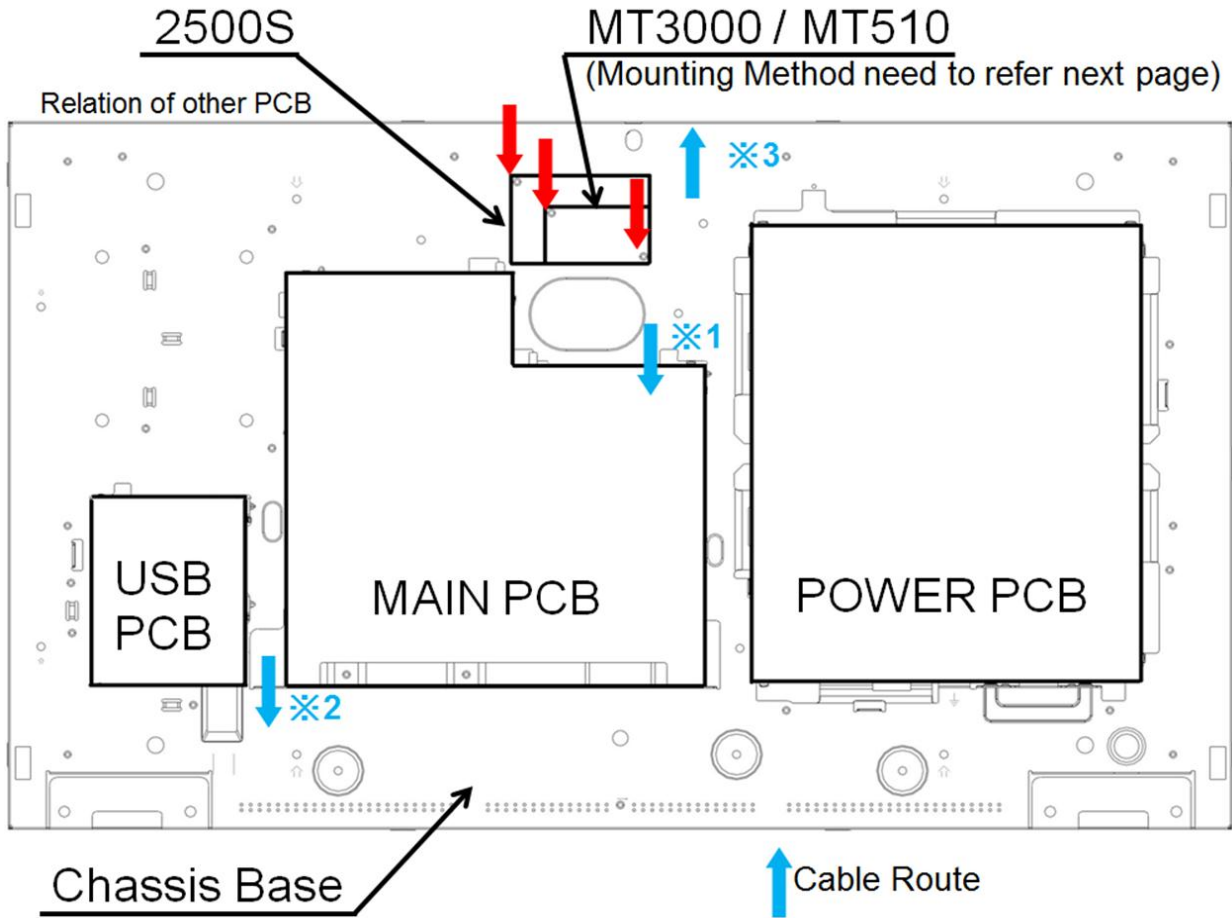
### 4-5. Connect Inner cables

Refer to "3-5", and connect LVDS / Power LED / Backlight Sensor cable.

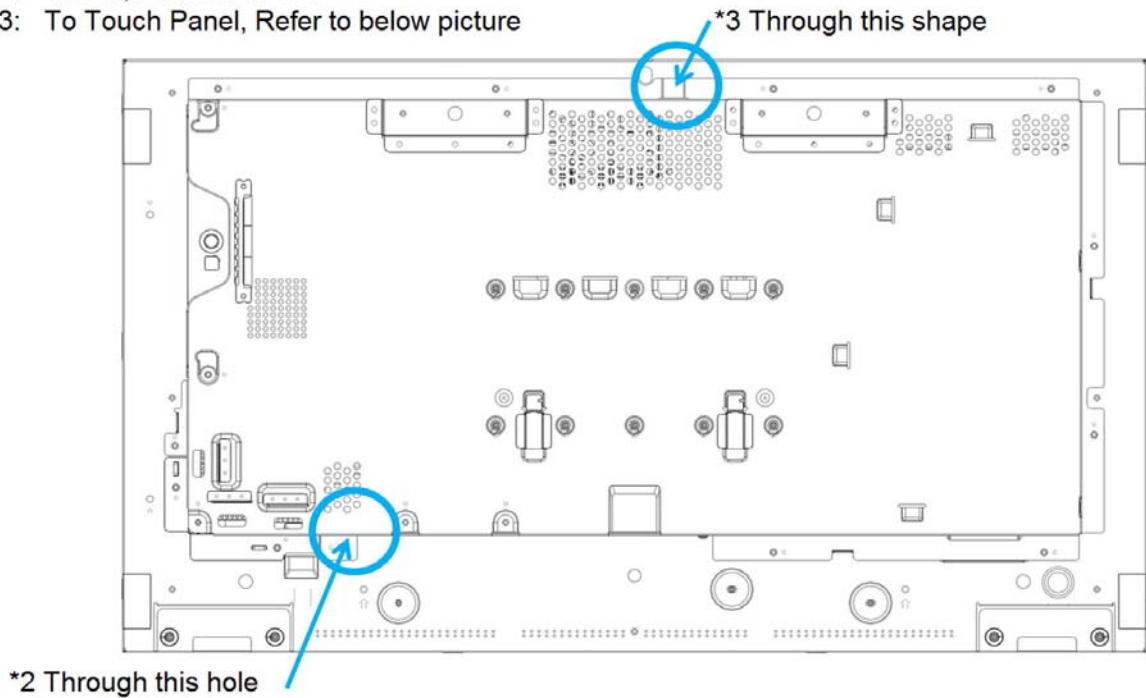
#### 4-6. Assemble Touch control PCB

Refer to below picture for assemble.

 M3 Screw hole  
for attachment

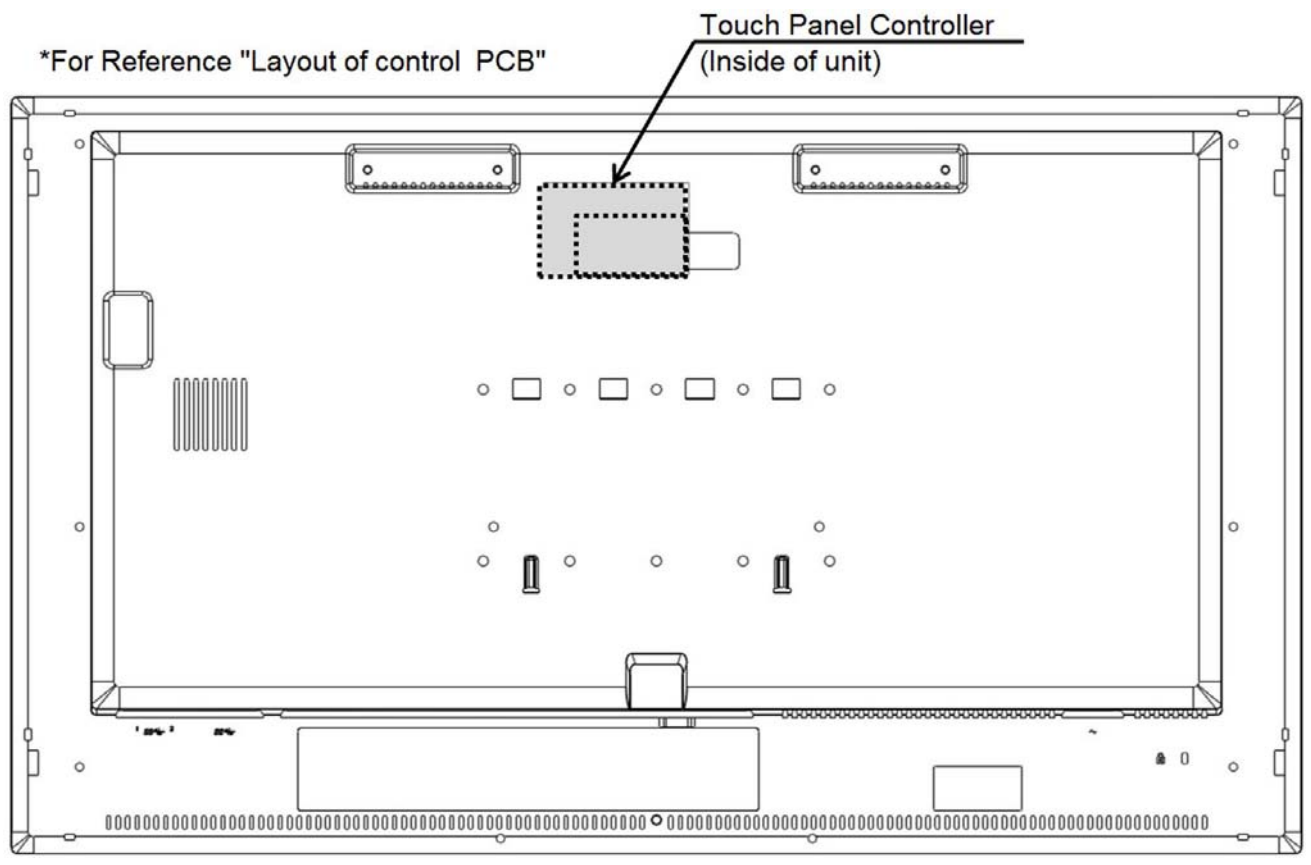
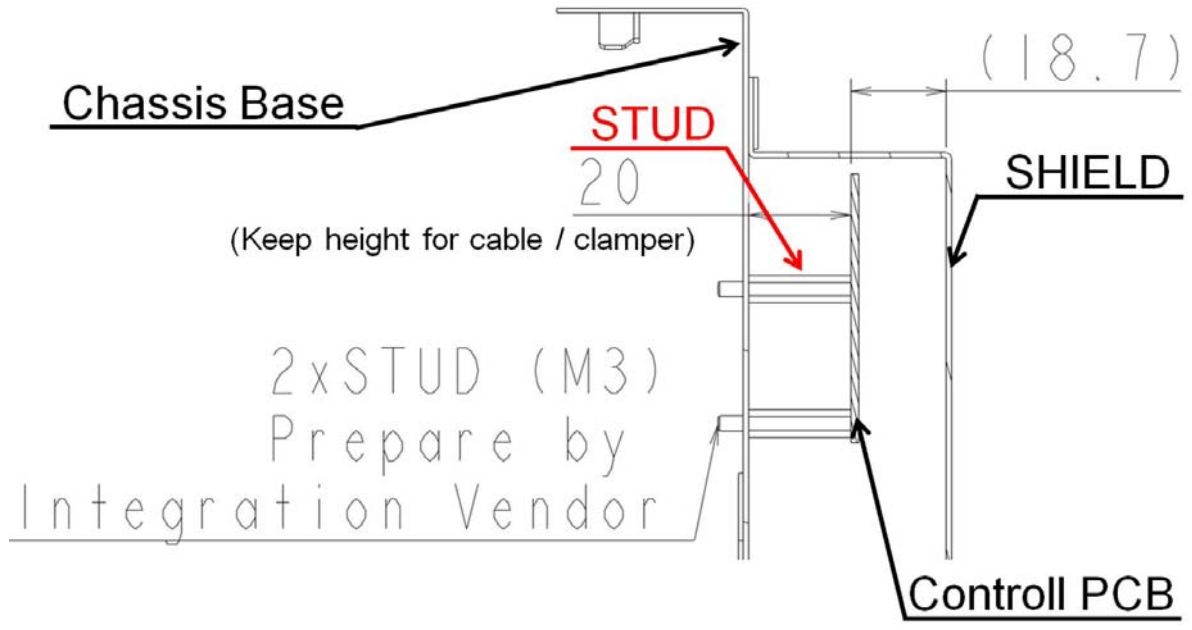


- \*1: To Main PCB, Control Power
- \*2: To PC, Refer to "5-2" .
- \*3: To Touch Panel, Refer to below picture





Controller in units will be attached by screw and stud.  
 Units have only screw hole (M3) for stud, does NOT have stud and screw.  
 Unit can equip only one PCB.



**5. Assemble method (only for unit)**  
 Shield screw fastening torque is 8 to 9 kgf cm  
 Back cover screw fastening torque is 8 to 9 kgf cm

## 6. STAND adjustment

If Head weight become heavy and STAND automatically down,  
It can solve by screw setting adjustment.

Adjusting screw is behind the cable management cover.

Rotate clockwise  
= fasten screw  
= Friction more bigger  
= Lift more harder

Rotate counter clockwise  
= loosing screw  
= Friction more weaker  
= Lift more weaker



## 7. Appendix

### Mechanical items

1	Touch panel space (Include Rubber)	Yes	
2	for Touch panel attachment (Adhesive tape)	No	
3	Touch panel controller PCB Space	Yes	*1
4	for Touch panel controller PCB attachment (STUD)	No	*2
5	Cable space	Yes	
6	Cable clamber	No	
7	for Shifted panel attachment (STUD)	No	
8	Packing ( for shock / vibration / drop with touch panel )	No	
9	Packing ( for Accessory space for touch panel )	No	

\*1 Considered only ( MT3000 / MT510 / 2500S )

\*2 Prepared screw hole only

### Electrical

Power supply connector for controller

Connector type	JST PH connector 2pin ( 1 : 5V / 2 : GND )
Output direct current ( Maximum )	300mA

### Evaluation

1	X	Performing test	27	X	Reliability eva. of in the parts
2	X	Operating test	28	X	Mechanical intensity check
3	X	Inner structure test	29	X	Surge immunity
4	X	External appearance / packing test	30	X	AC harmonic noise regression
5	X	Characteristics test	31	X	Openings in the top and side of enclosures
6	X	In-Rush current test	32	X	Distance through insulation
7	X	Radiated emission	33	X	Leakage current
8	X	Smell (Stench) test	34	X	Insulation resistance
9	X	Internal voltage change test	35	X	Dielectric strength
10	X	Static electricity (MPR II)	36	X	Connection of primary power
11	X	Low frequency electric field (MPR II)	37	X	Provisions for protective earthing
12	X	Low frequency magnetic field (MPR II)	38	X	Insulation
13	O	High temp. operating test	39	X	Wiring connections and apply
14	X	Low temp. operating test	40	X	Open / short test
15	X	Humidity operating test	41	X	Temp. rise test
16	X	High temp. storage test	42	X	Mechanical strength
17	X	Low temp. storage test	43	O	Stability and mechanical hazards
18	X	High temp. humidity storage test	44	O	Overbalance and slip test
19	X	Electrostatic discharge test	45	O	Power consumption
20	X	Power line noise test	46	X	Markings
21	X	AC voltage sag / surge / drop test	47	X	Inner structure (option, rotator)
22	X	Vibration test	48	X	AC over input test
23	X	Drop test	49	X	Abnormal test
24	X	high temp. load test	50	X	Free fall test
25	X	Life test	51	X	Shock test
26	X	Temp. rise test of parts	52	X	Compatibility test

X Not Evaluate

O Evaluate (not include countermeasure)