FCU1

User Manual V1.0 2024.01

Catalog:

Package List

| ①	FCU1 (1#)	1
②	Mounting Bracket-left(2#)	1
③	Mounting Bracket-right(3#)	1
④	Data Cable(4#)	1
⑤	Tools Kit(T1)	1
⑥	Accessories Kit 1(5#-7#)	1
	5#:Hexagon Socket Head Screw M5*16	
	6#:Hexagon Socket Head Screw M5*22	
	7#:Flat Washer M5*10*1;	
⑦	Nanometer Double Sided Adhesive Dots	1

1 Parameters

1.1 Performance Parameters
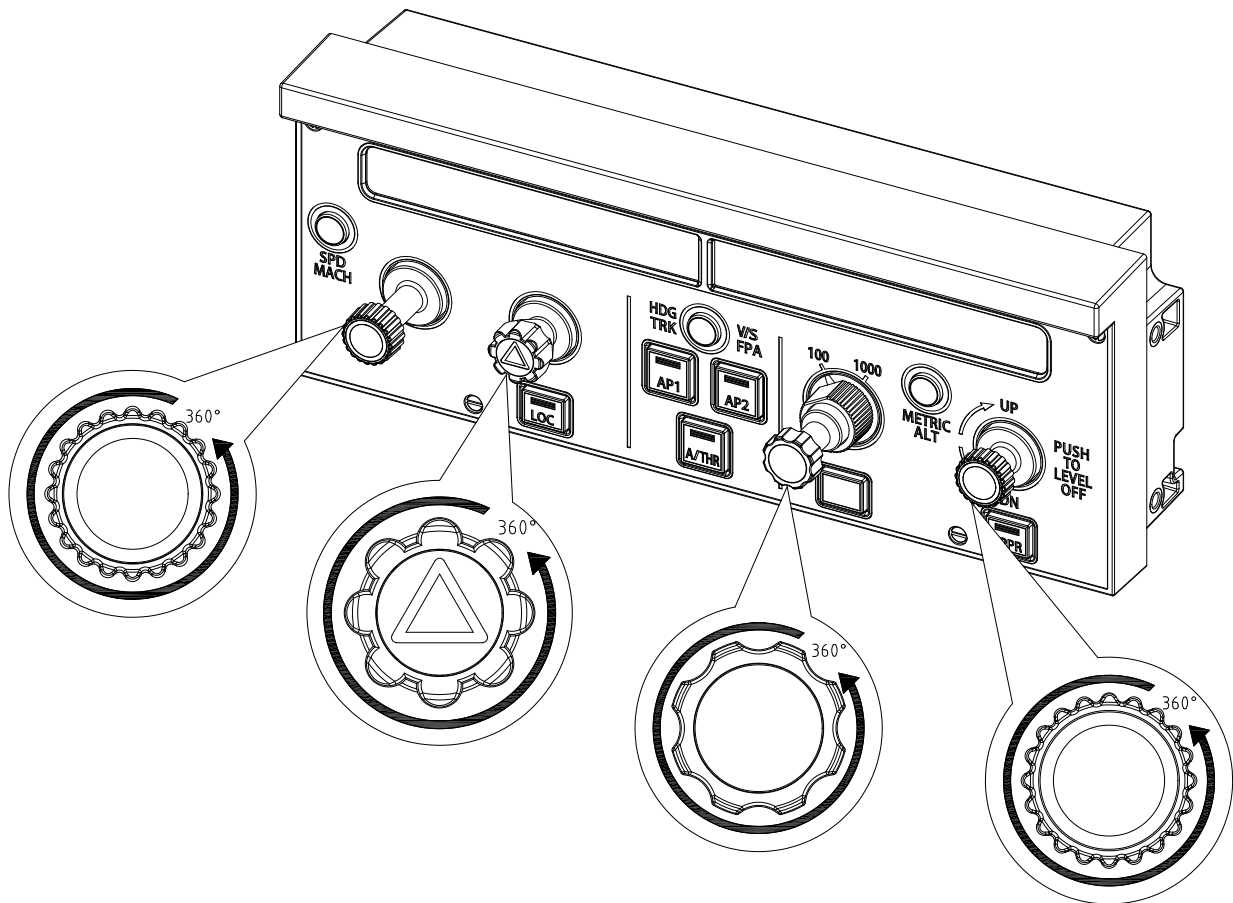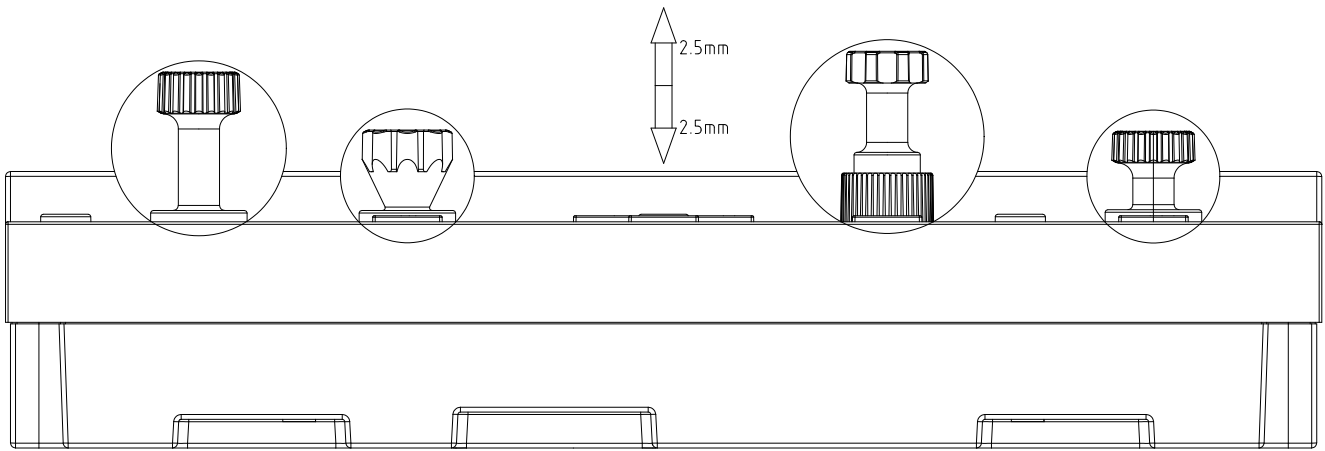
① 4 knobs, with push and pull stroke of 2.5mm each, and a rotational angle of 360° (without detents).

*Note: Only push, pull, and rotate, do not bend; bending damage force 500gf; maximum rotational torque 150gf·cm, maximum push-pull force 1200gf.
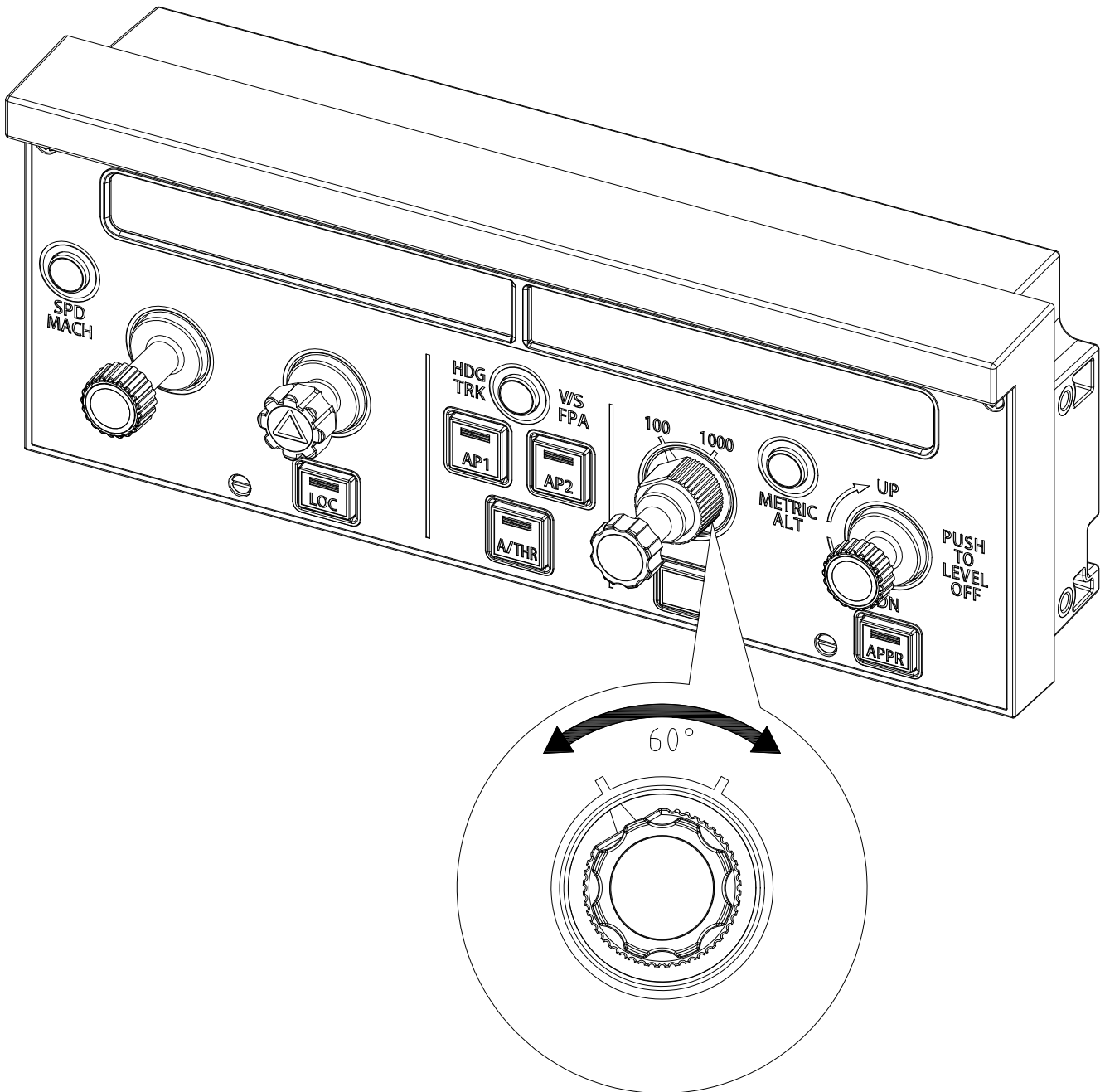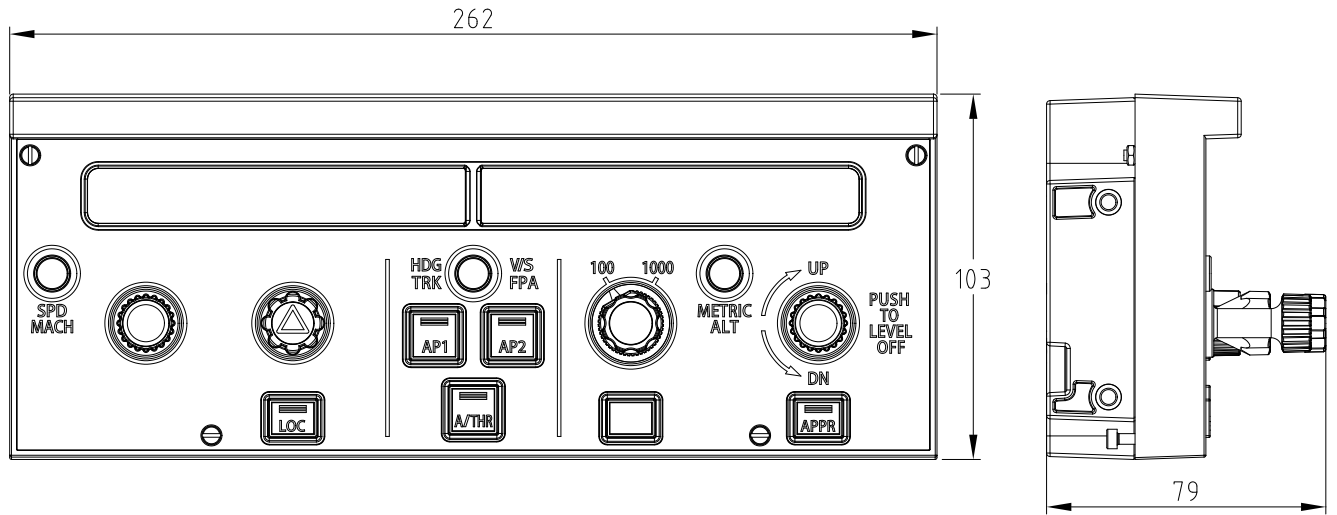
② This gear's rotational angle is 60°.

*Note: Only rotate, do not pull or extract; pulling or extracting damage force 300gf.

1.2 Applicable Models

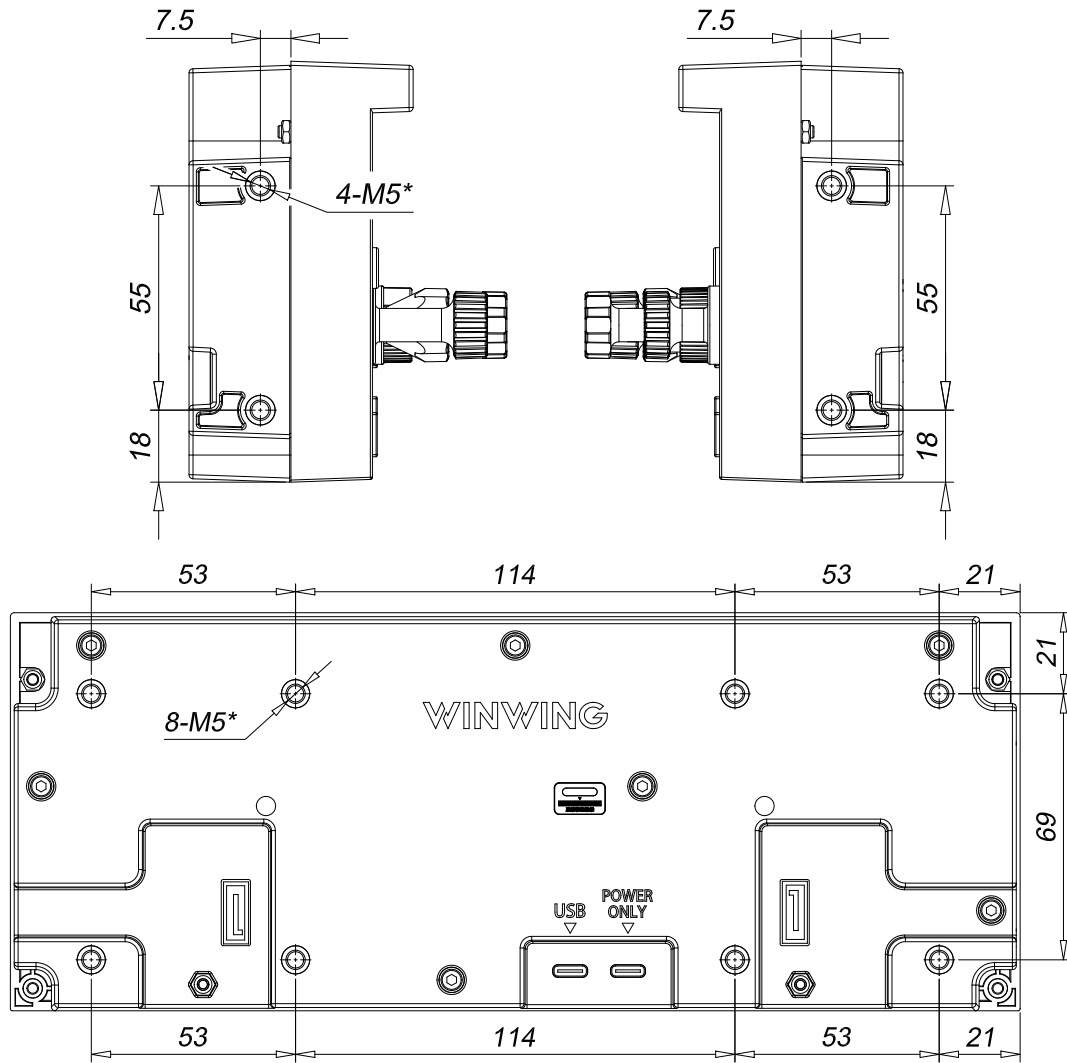① Can be used independently.

② Can be cascaded with various control panels through the bracket (Stay tuned for the later products).
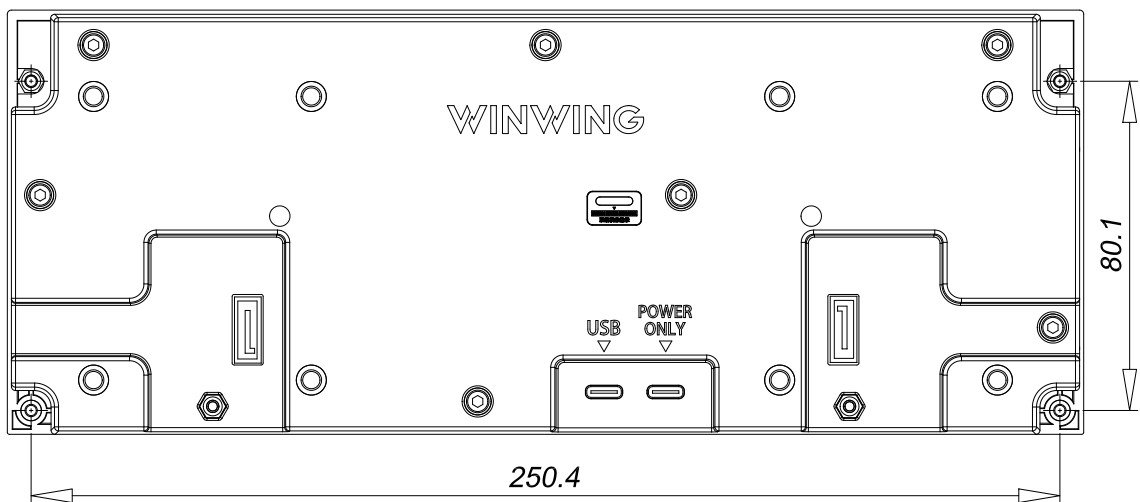
1.3 Dimensions

*The product length,width and height is 262mm*103mm*79mm respectively;The weight is 0.5kg=1.1lb.

1.4 Installation Dimensions

7.5   4-M5*   7.5

55   55

18   18

53   114   53   21

8-M5*   WINWING   21

69

USB   POWER
ONLY

53   114   53   21

*4-M5, 8-M5 maximum depth 5mm.

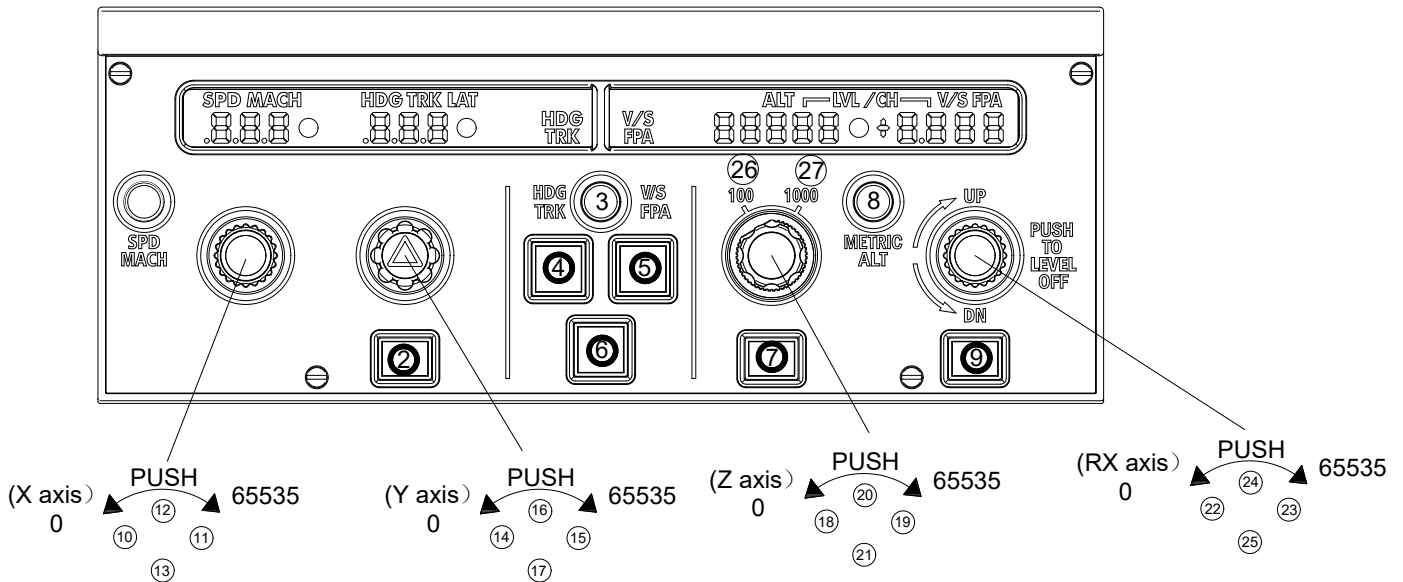WINWING

80.1

USB   POWER
ONLY

250.4

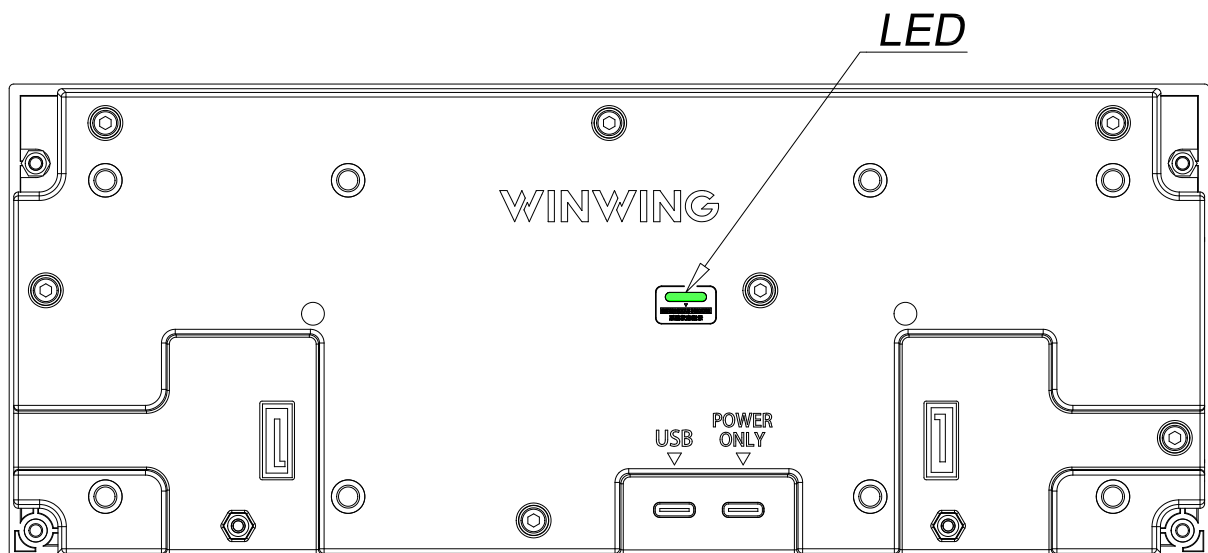*Diagram showing cockpit panel installation dimensions.

2 Function

2.1 Mechanical/Special Functions

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2.2 Buttons

*The Z axis cannot rotate simultaneously with the 26th and 27th buttons; when operating the 26th and 27th buttons, the Z axis rotation signal will be automatically blocked.

*LED Status Display:
Steady slow flashing in green (1s interval) – BOOT mode.
Slow flashing in green (1s interval) for 5 times, then steady ON – Operational mode.
Slow flashing in green (1s interval) for 5 times, then OFF – Power supply only mode..
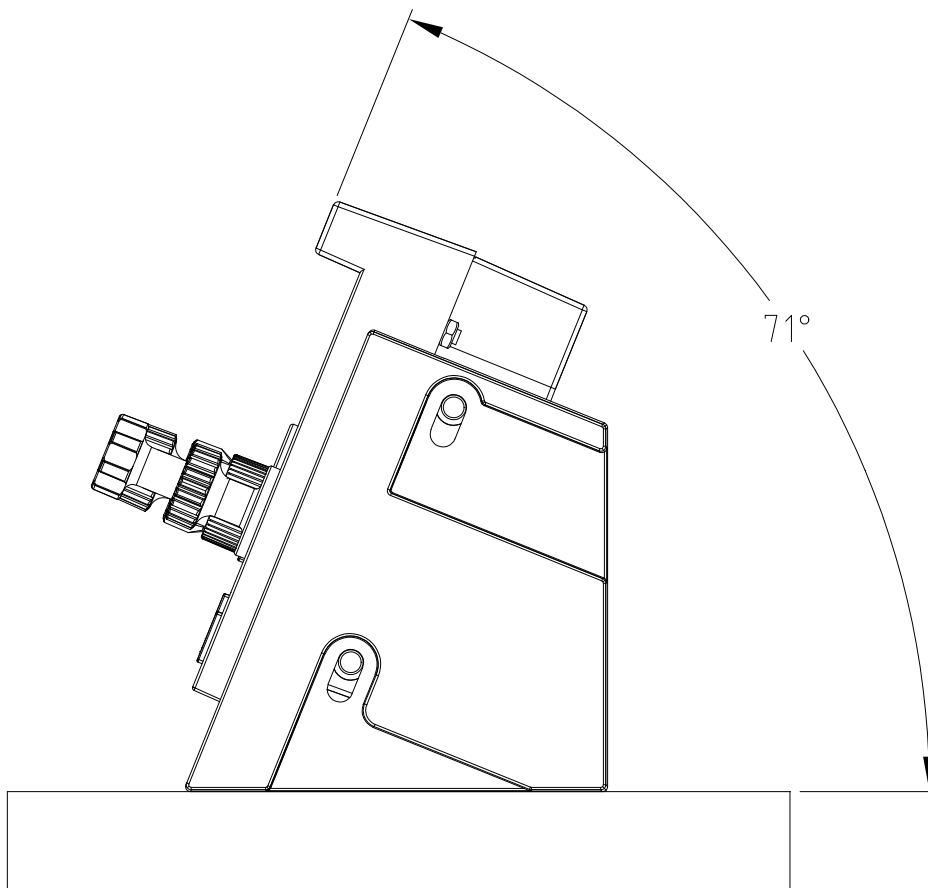
2.3 Adjustment Methods

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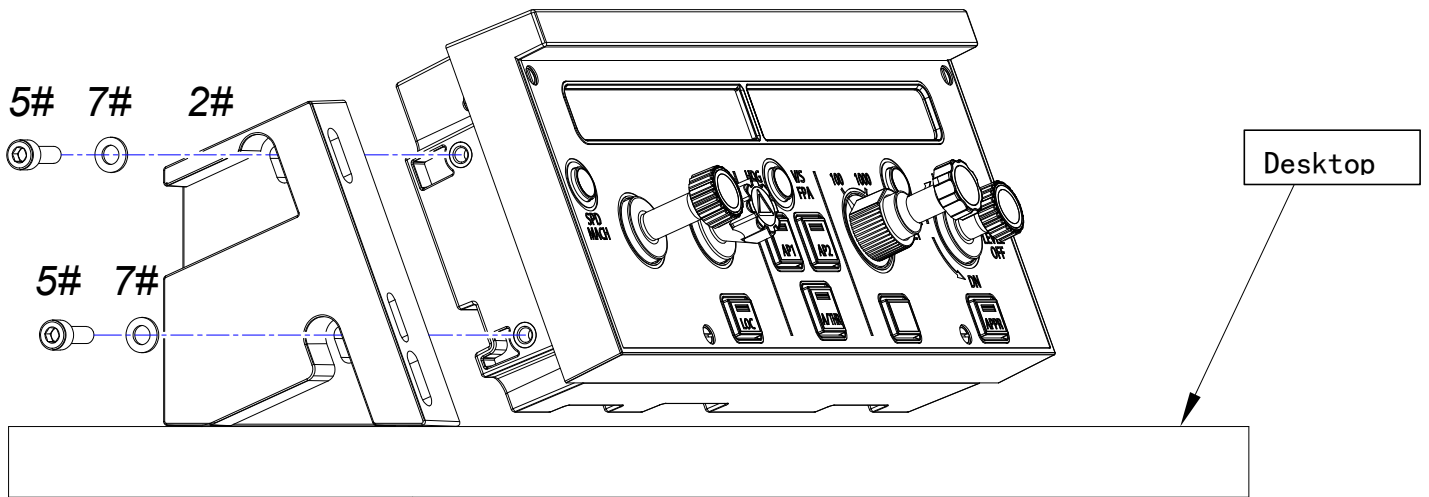# 3 Assembly and Disassembly of Components

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4 Installation Methods

4.1 Bracket Installation Method 1 (Recommended Installation Method)
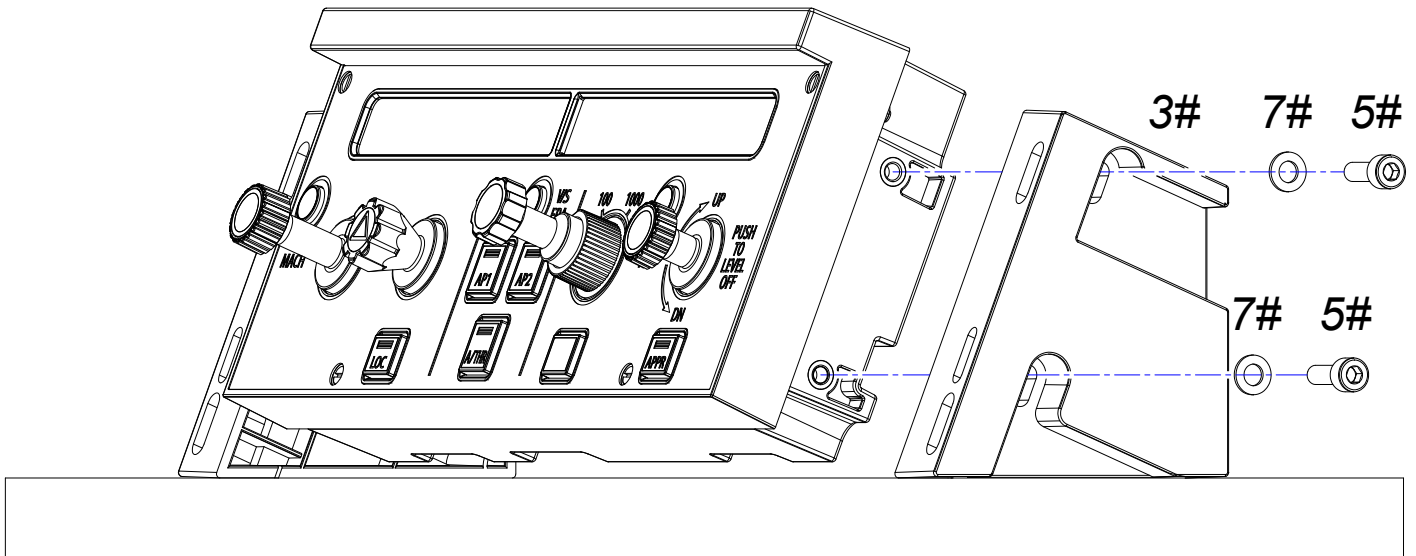
① Bracket Installation Method: Install at a 71-degree angle with the desktop (actual Aircraft perspective is 71 degrees).
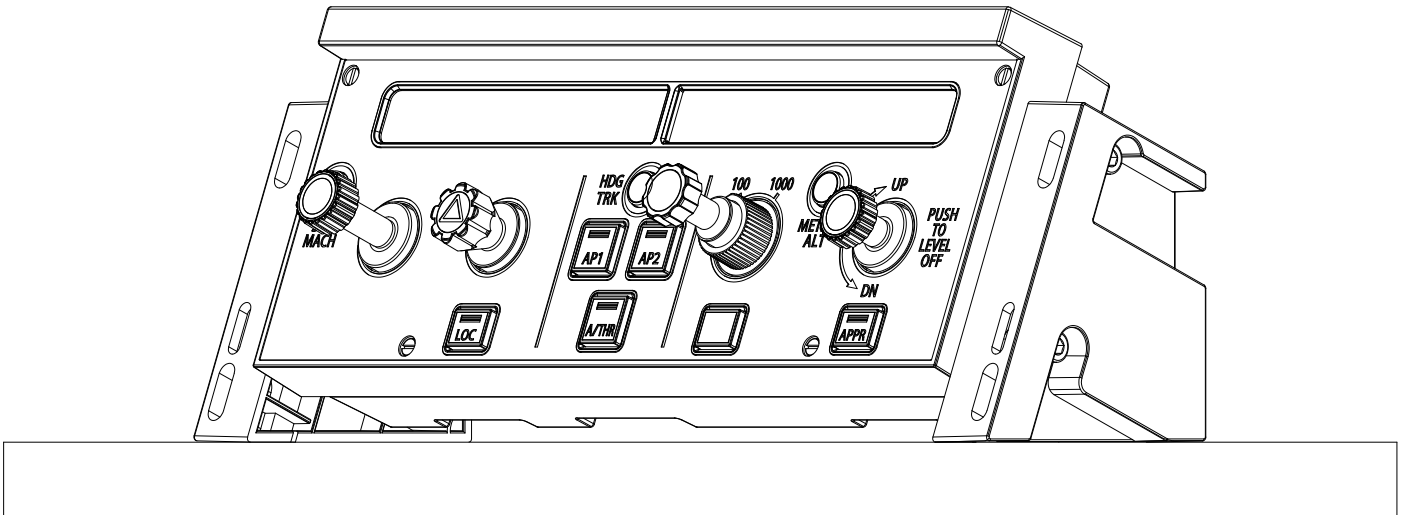

71°

② Left and right bracket installation methods.

5# 7# 2#

5# 7#

Desktop

*Turn the screw in place, but do not tighten it yet.
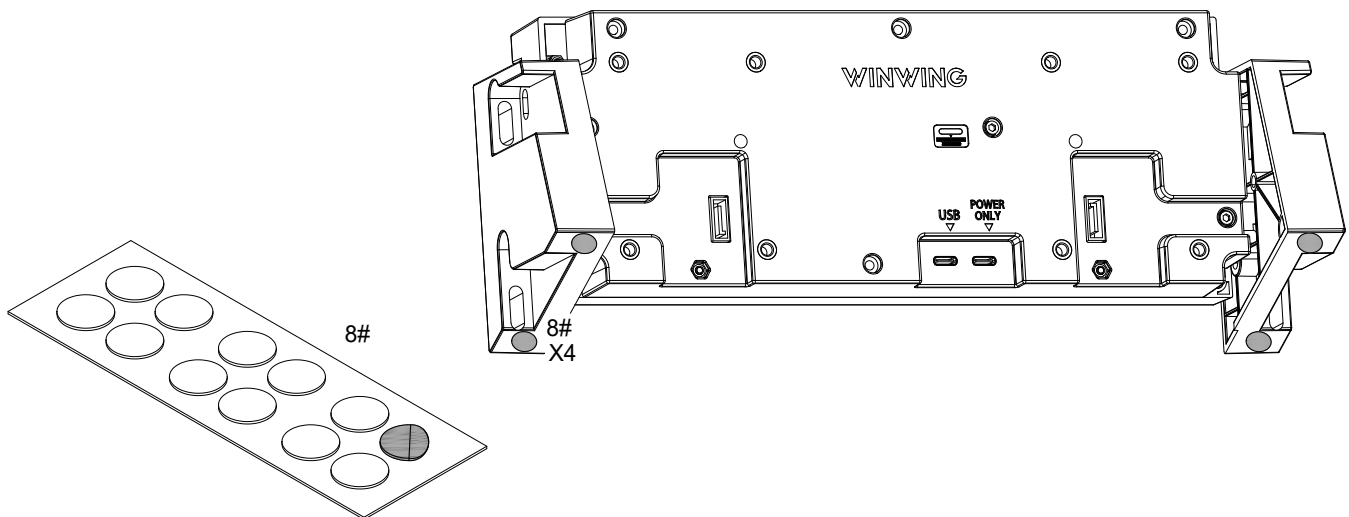
3# 7# 5#

7# 5#

*Turn the screw in place, but do not tighten it yet.

*Adjust the bracket position up and down until it sits steadily on the desktop before tightening the screws.

*Tighten the screws until there is no wobbling; over-tightening may cause damage.
 ③Apply Nanometer Double Sided Adhesive Dots. (8#)

8#

8#
X4

*Clean the dust off the bracket surface before installation.

Bracket Installation Method 2

*Turn the screw in place, but do not tighten it yet.

*Turn the screw in place, but do not tighten it yet.

*Adjust the bracket position up and down until it sits steadily on the desktop before tightening the screws.
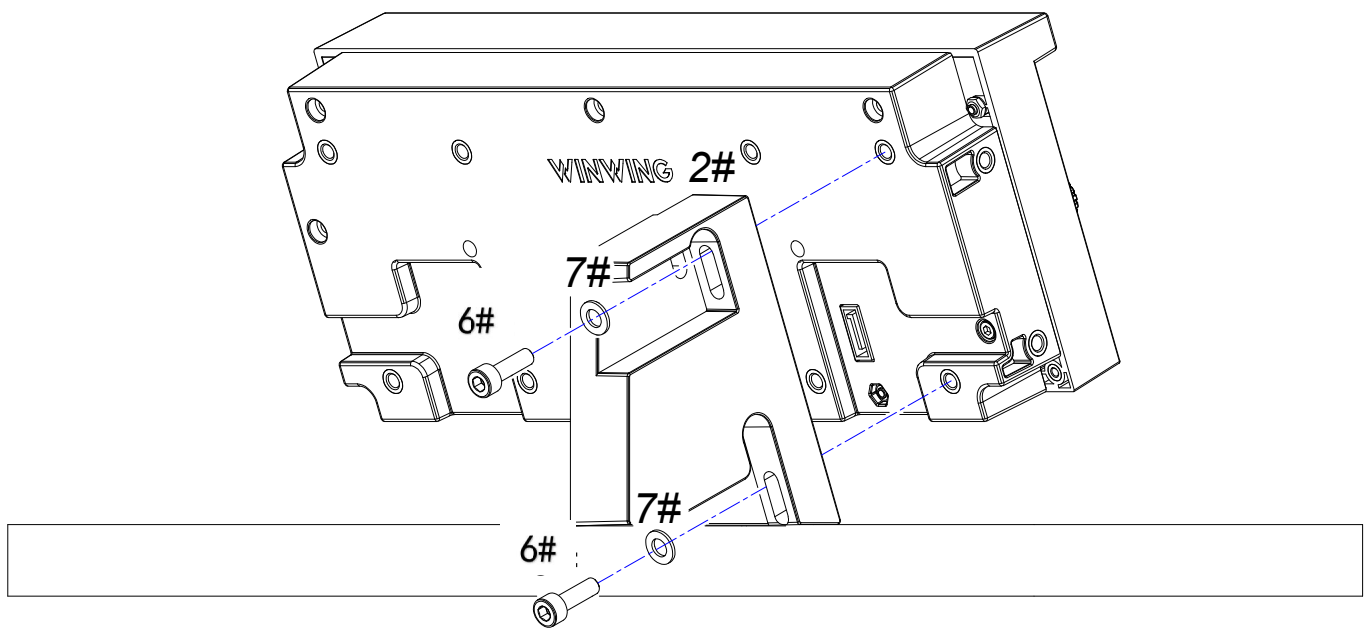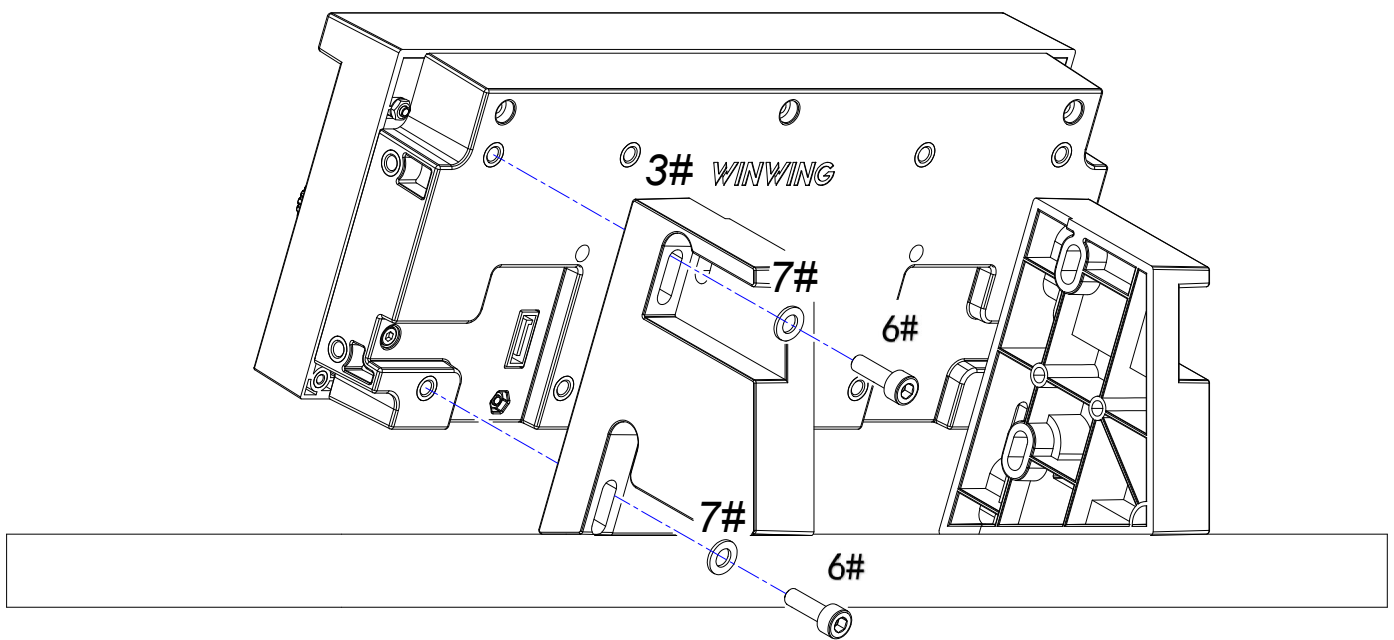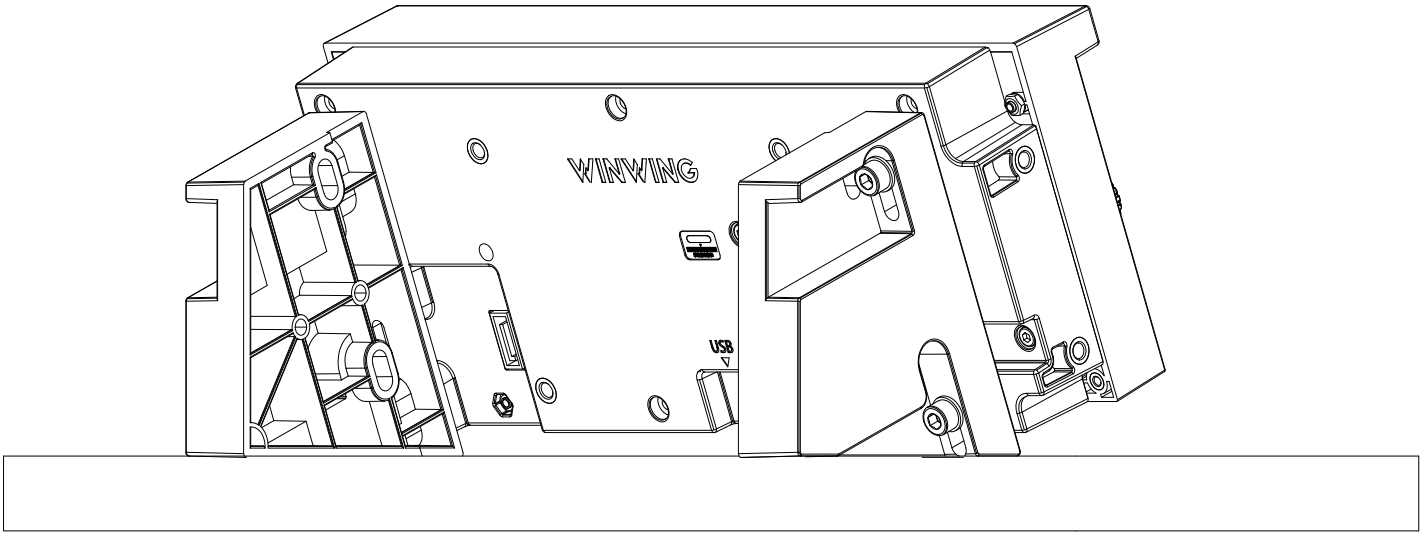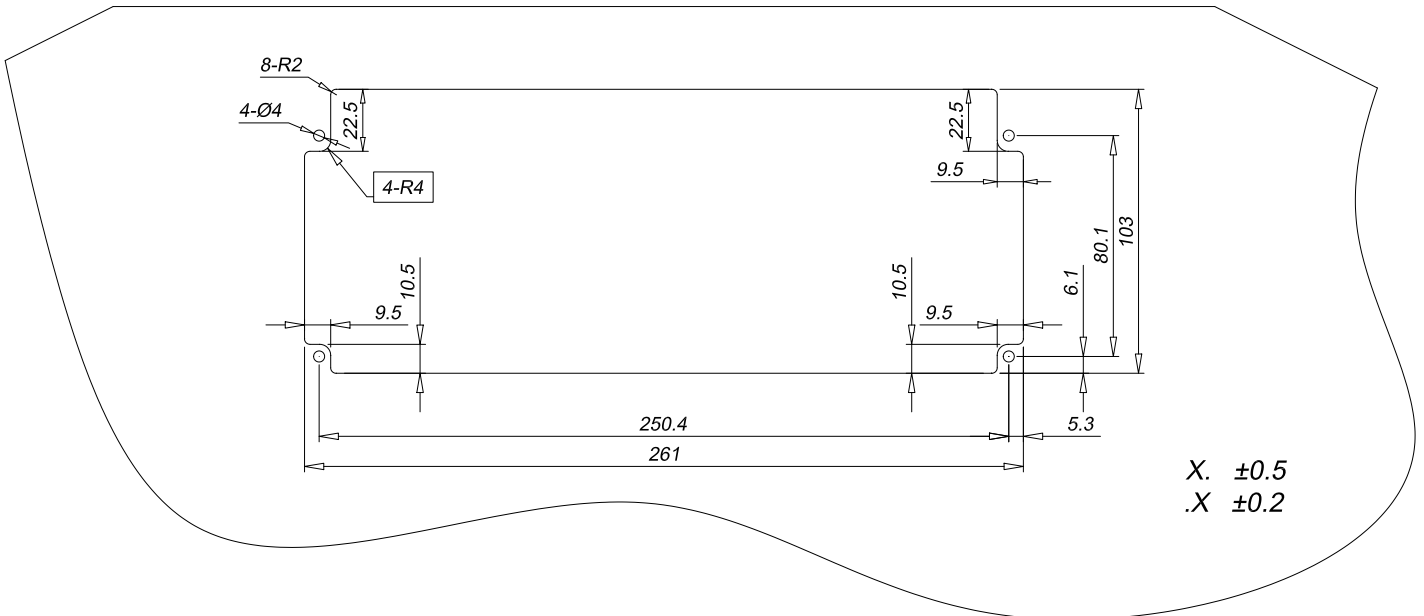*Tighten the screws until there is no wobbling; over-tightening may cause damage.
*Paste the Nanometer Double Sided Adhesive Dots to the bottom of the bracket
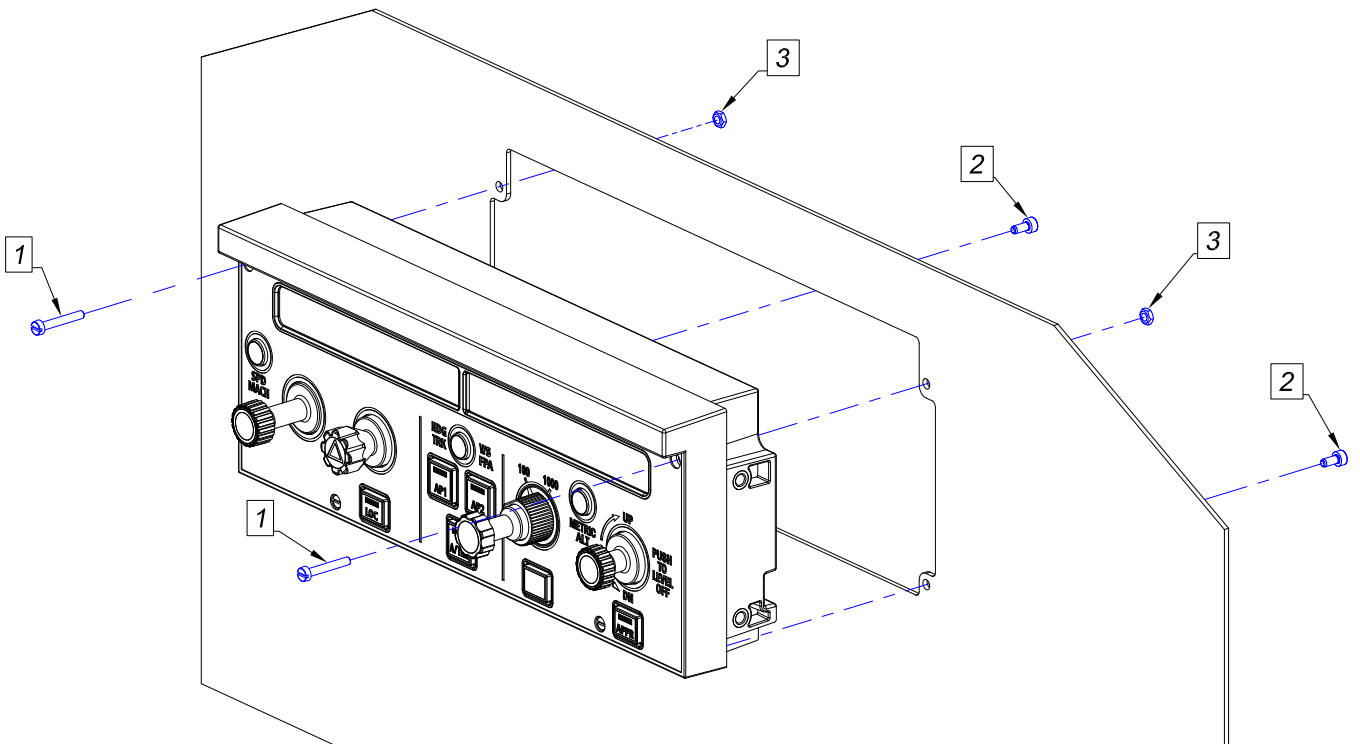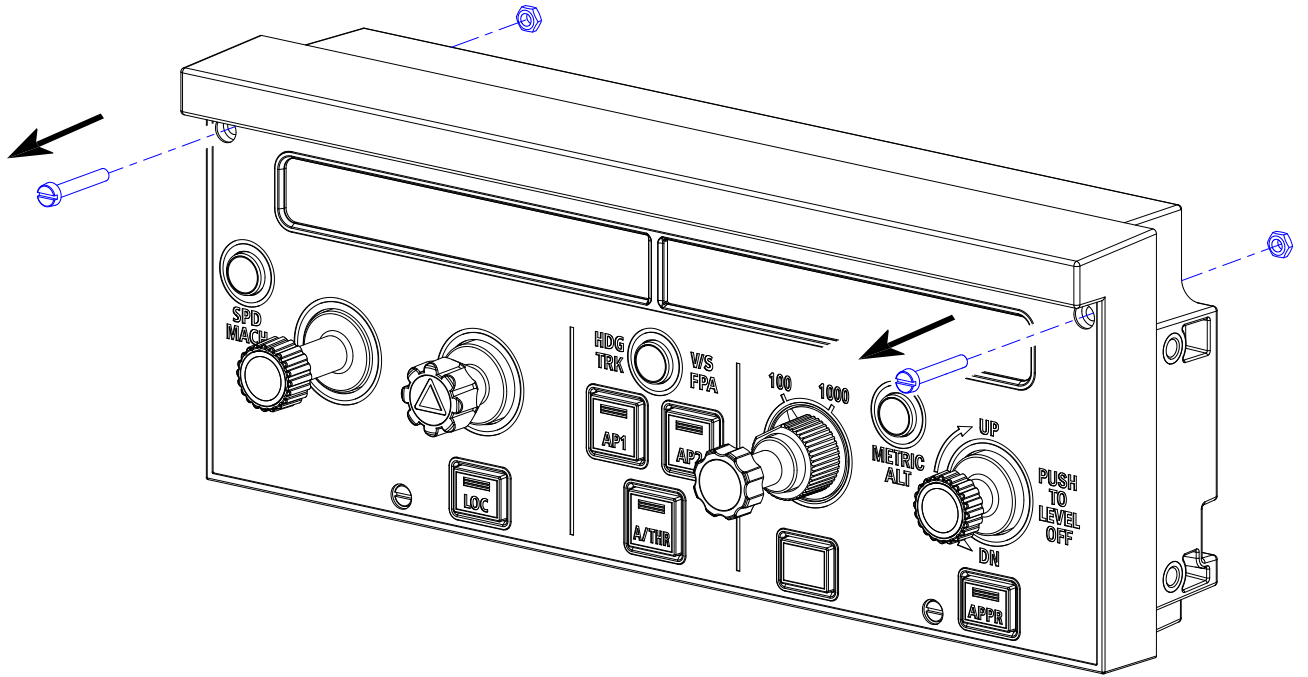*Installation method for other mounting holes is the same as above.

4.2 Gaming Seat Mounting

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4.3 Cockpit Mounting* Cockpit panel and installation screws need to be provided by the user.

Cockpit panel mounting hole diagram

① Remove the screws and keep the nuts.

② Install FCU1 on the cockpit panel; screw specifications are as follows:

1	Screw specifications: M3, length = (22~25) + cockpit panel thickness.
2	Hexagon socket head screw M3, length = (5~8) + cockpit panel thickness.
3	M3 Hexagon nut M3

4.4 Cascading

Can be cascaded with various control panels for installation, please stay tuned for the upcoming products for details.

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