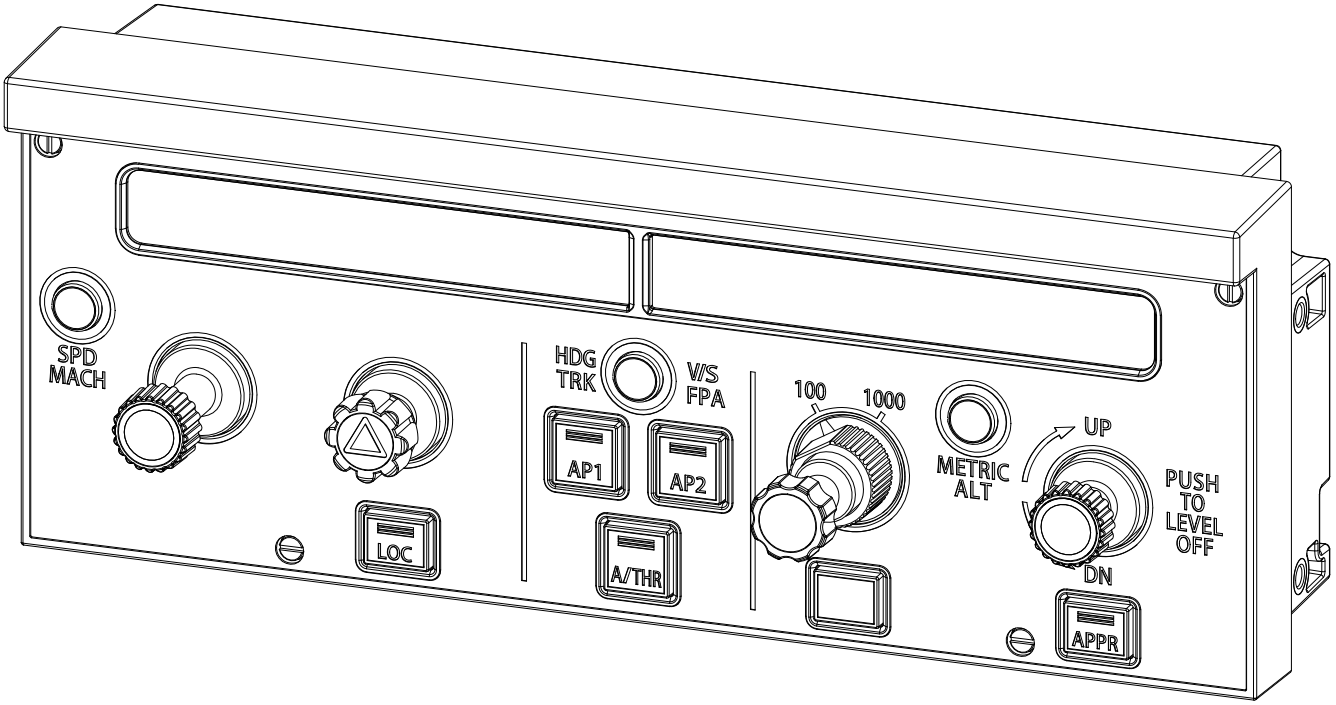
FCU1

User Manual V2.0 2024.06



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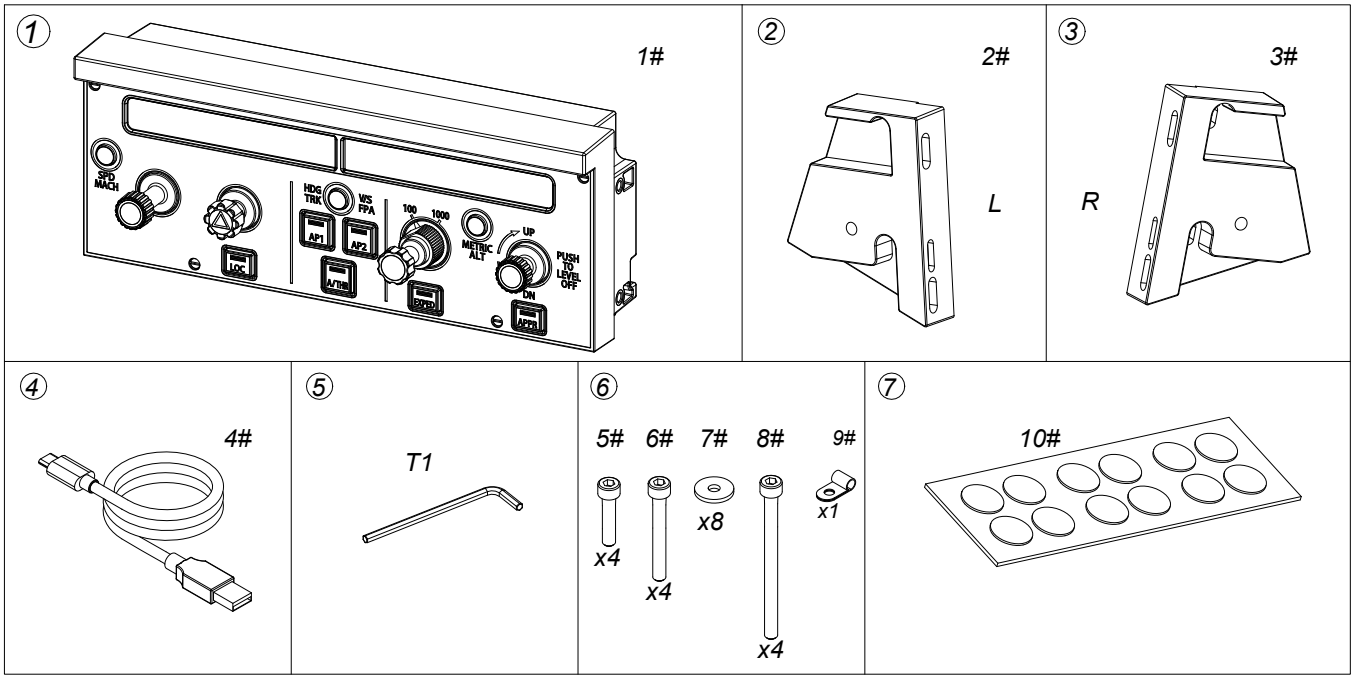
Package List



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

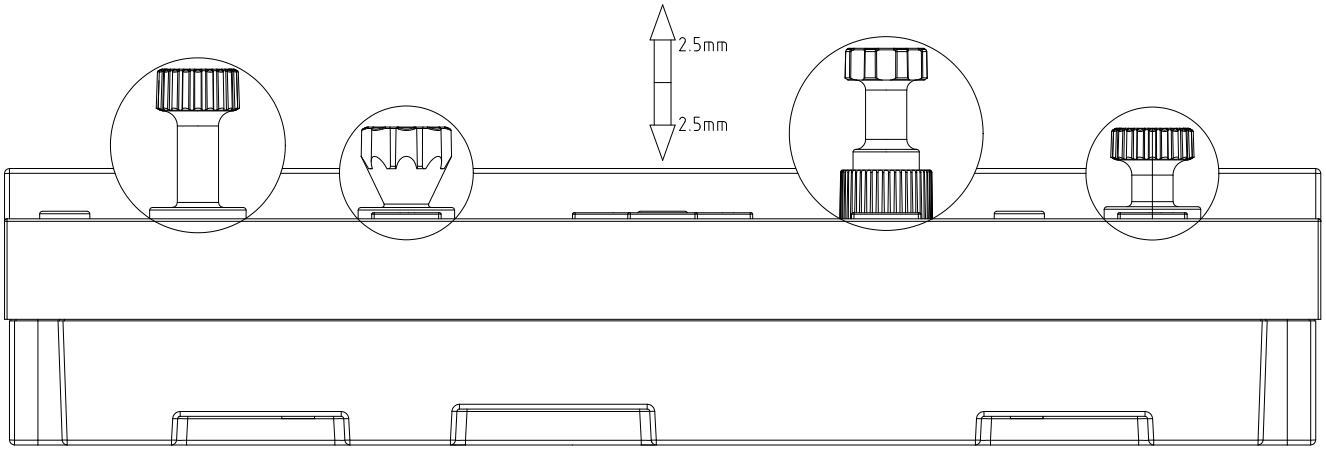
⑥ Accessories Kit 1(5#-9#) 1

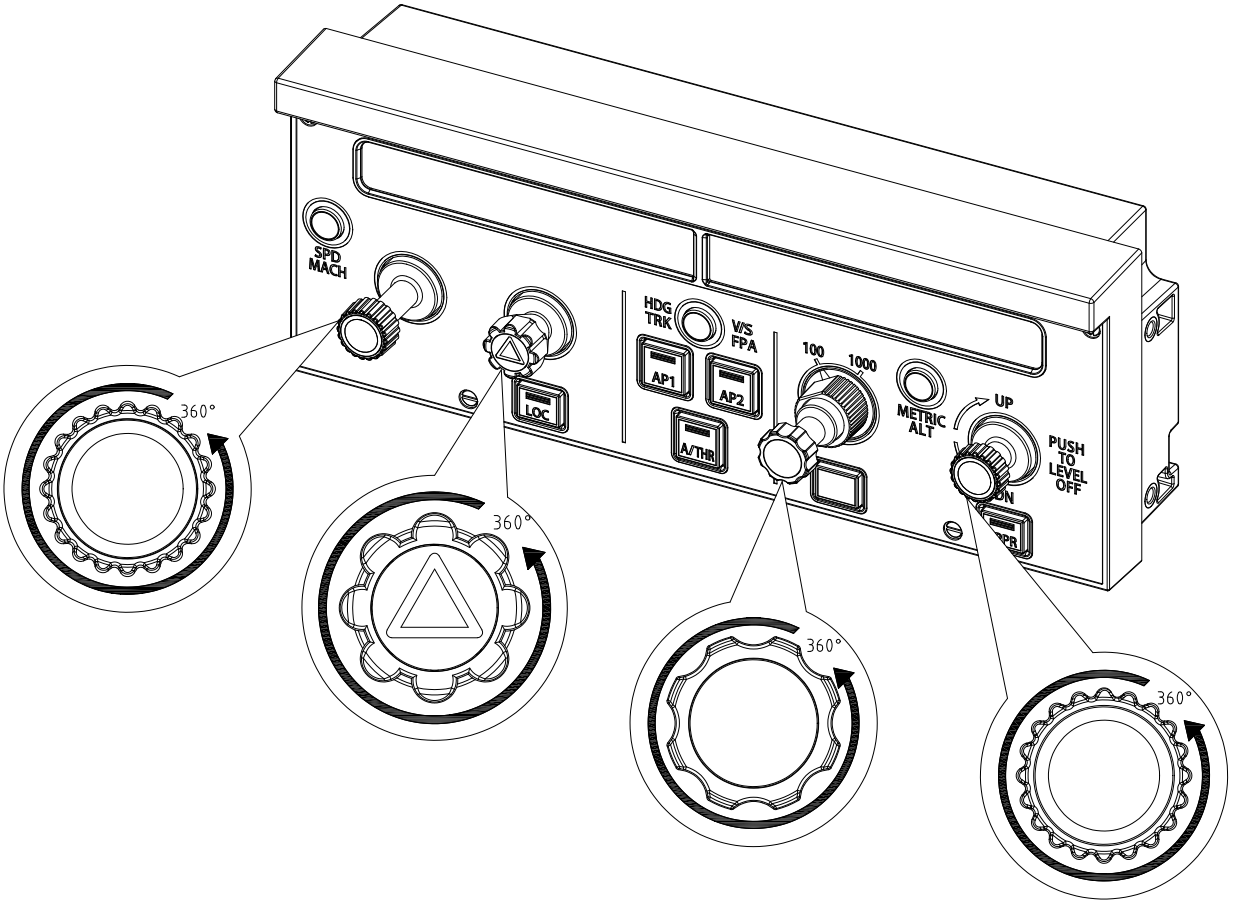
5#	Hexagon Socket Screw M5*16	6#	Hexagon Socket Screw M5*22
7#	Washer M5*10*1	8#	Hexagon Socket Screw M5*40
9#	R-shaped Clamp UC-0.5		

⑦ Nanometer Double Sided Adhesive Dots (10#) 1

1Parameters

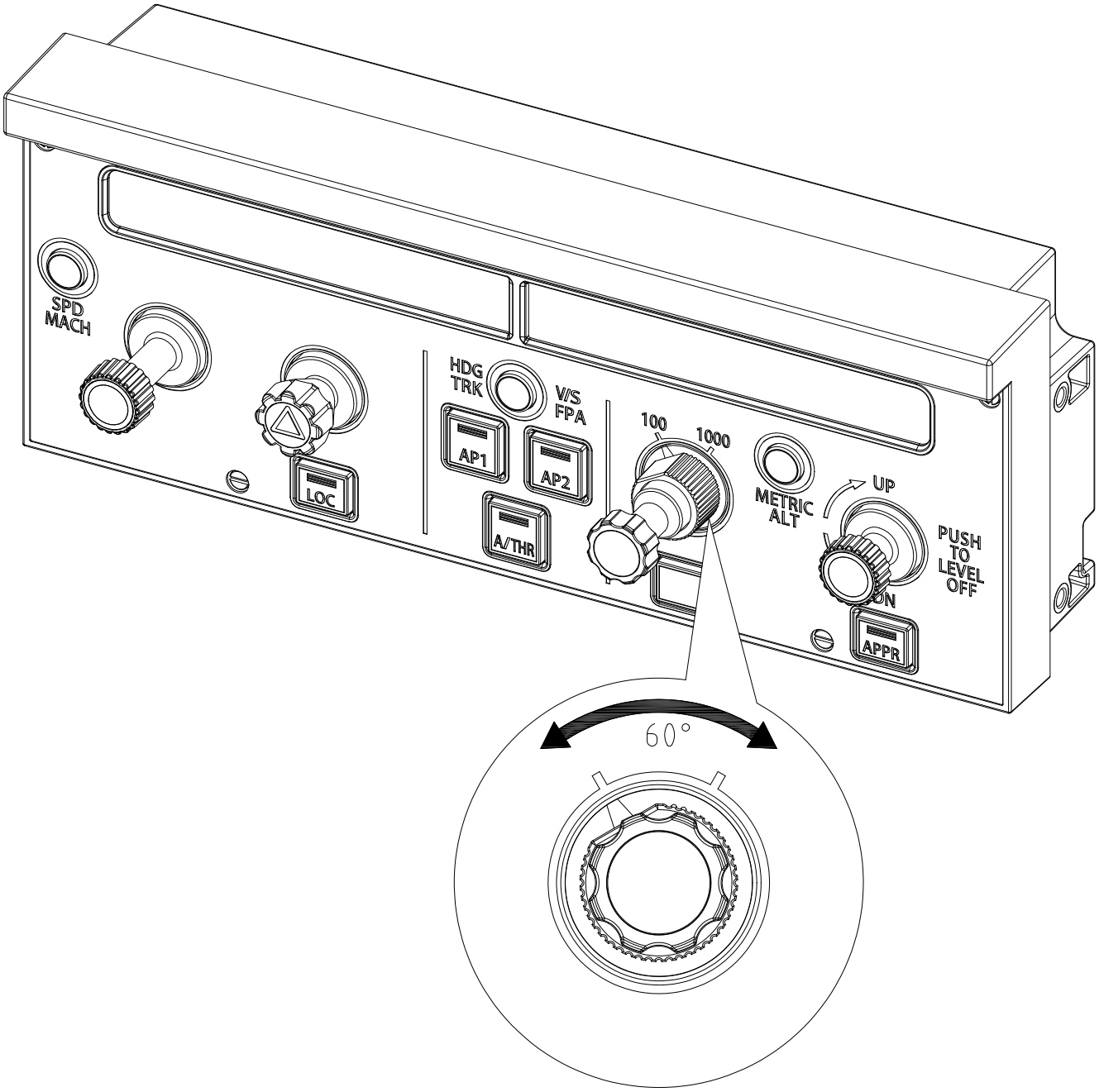
1.1Performance Parameters





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.

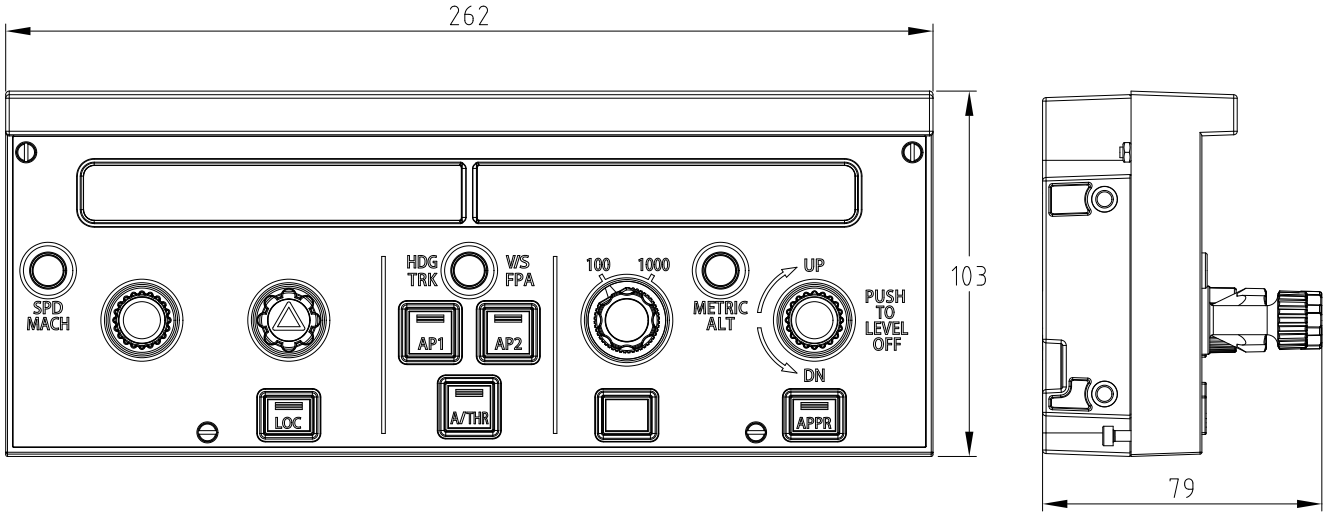
1.2 Applicable Models

① Can be used independently.

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

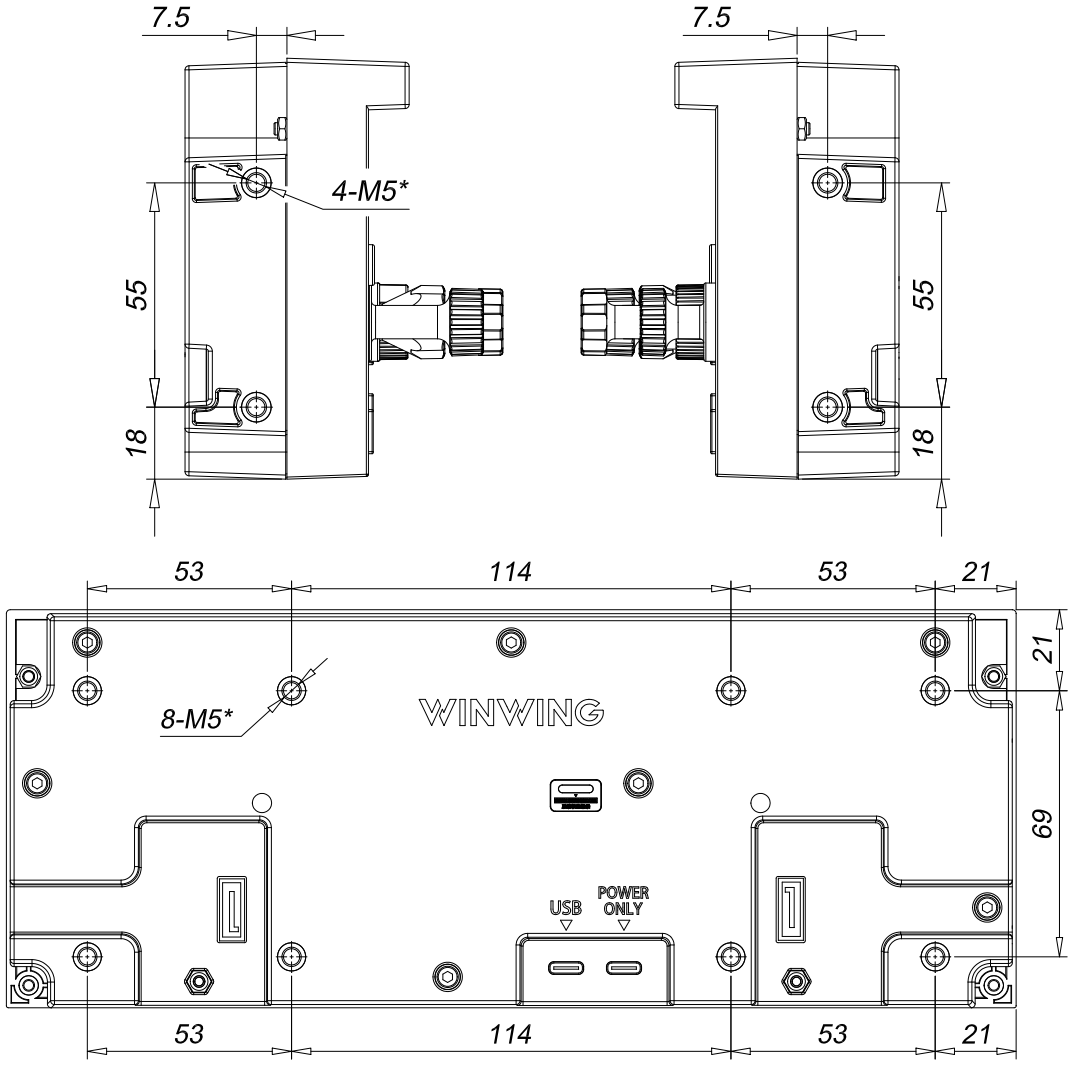
③ Supports installation on 4080 aluminum profiles (profiles and related accessories need to be provided by yourself).

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



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

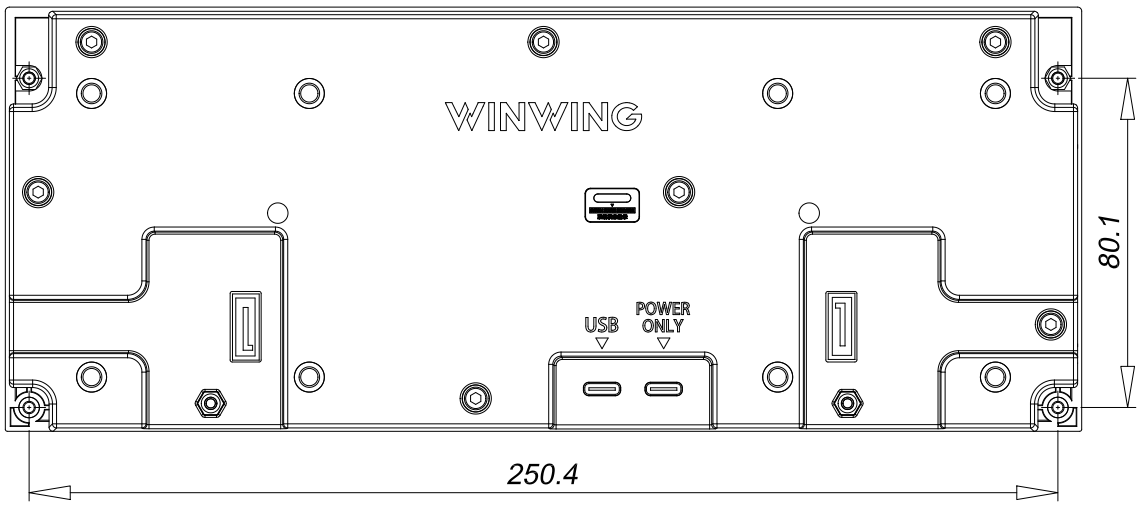
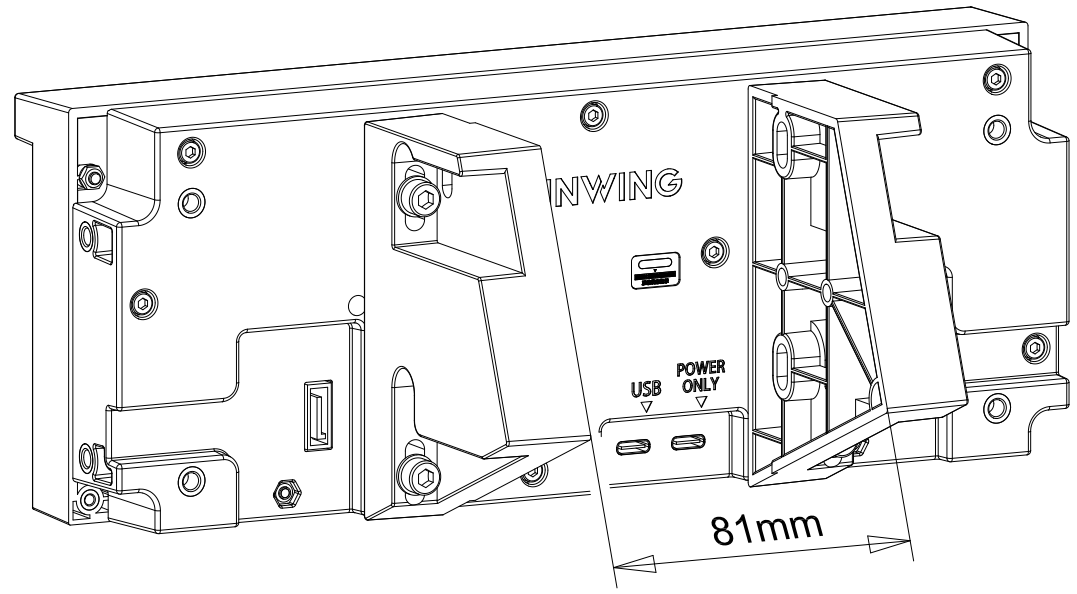


*Diagram showing cockpit panel installation dimensions.



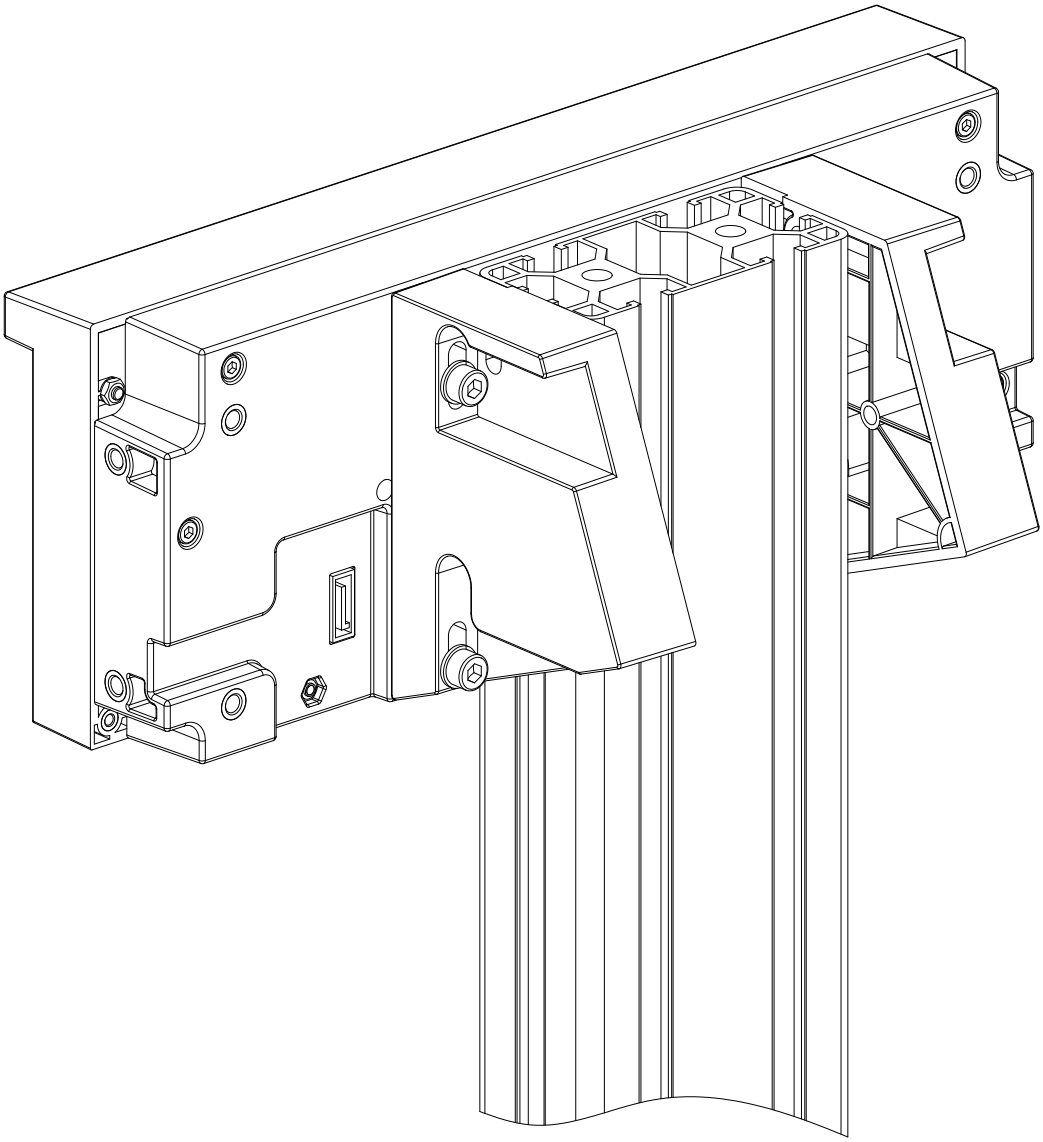


*Diagram for installation on 4080 aluminum profiles (profiles and accessories need to be provided by yourself, installation instructions on page 13, specifications of accessories to be provided on page 15).

2 Function

2.1Mechanical/Special Functions

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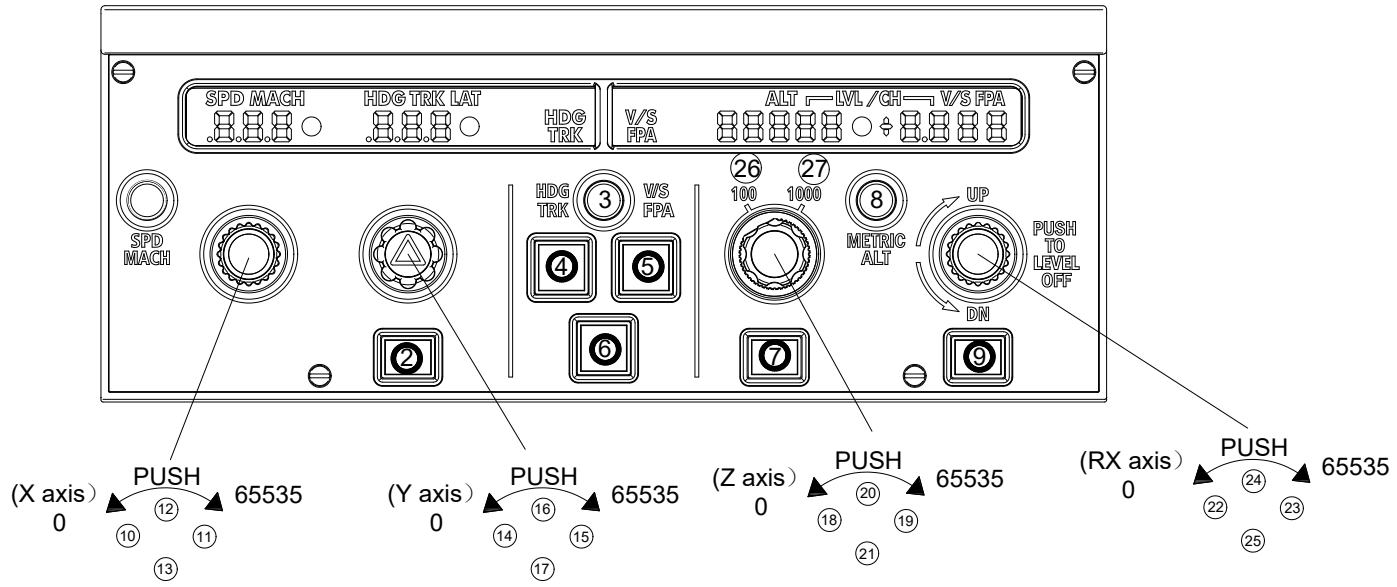
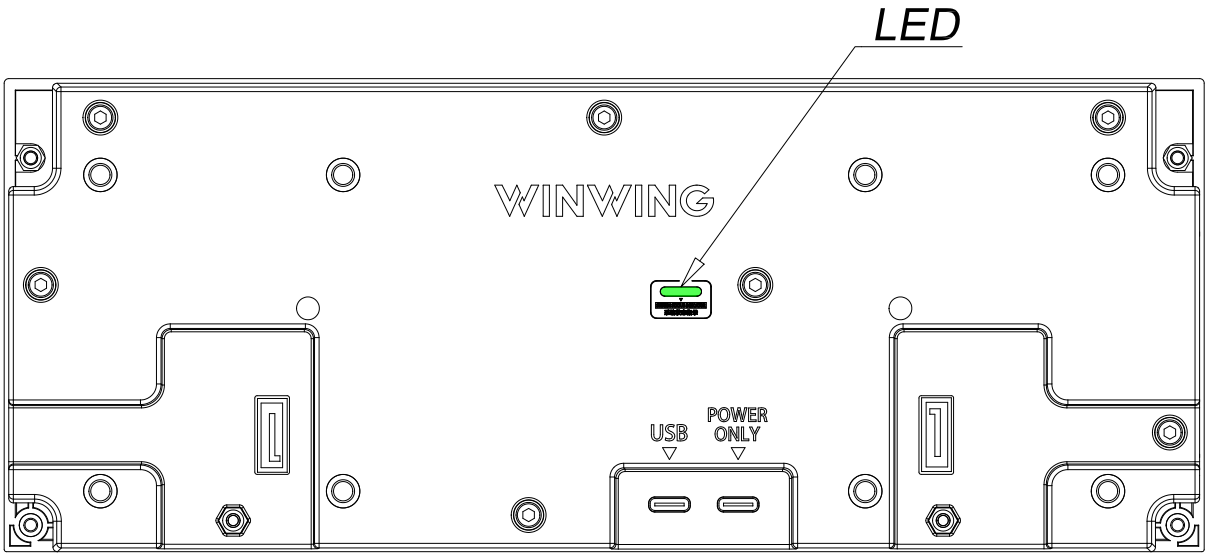
2.2 Buttons



*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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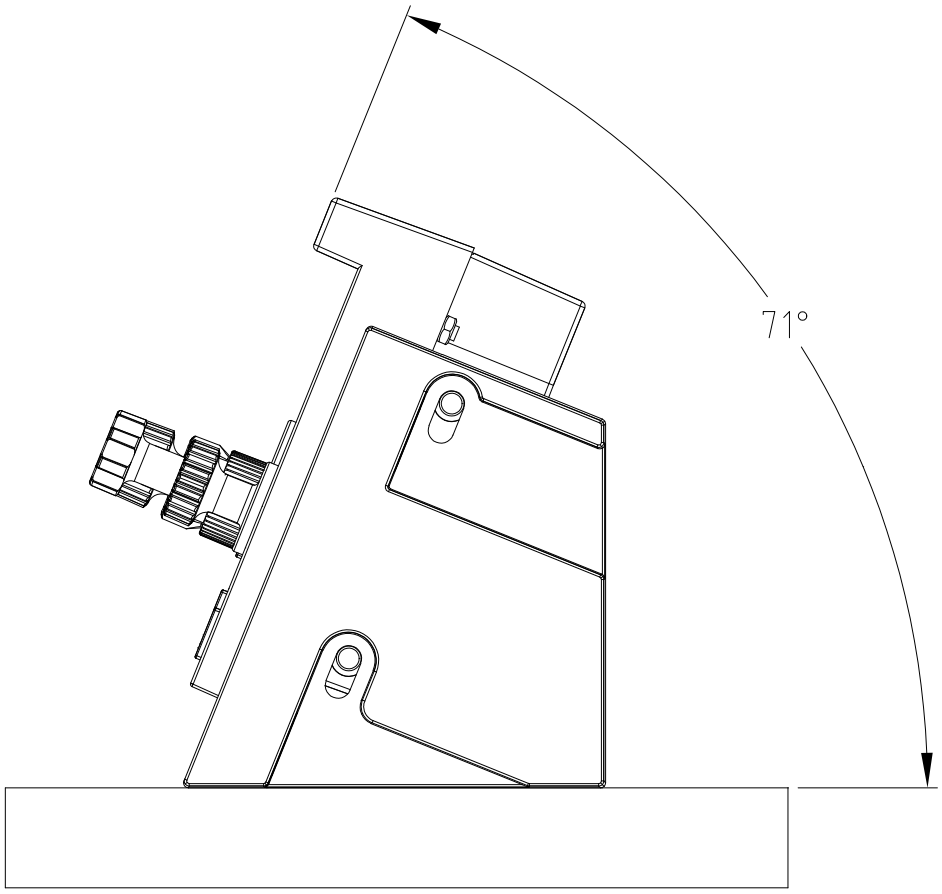
4Installation Methods

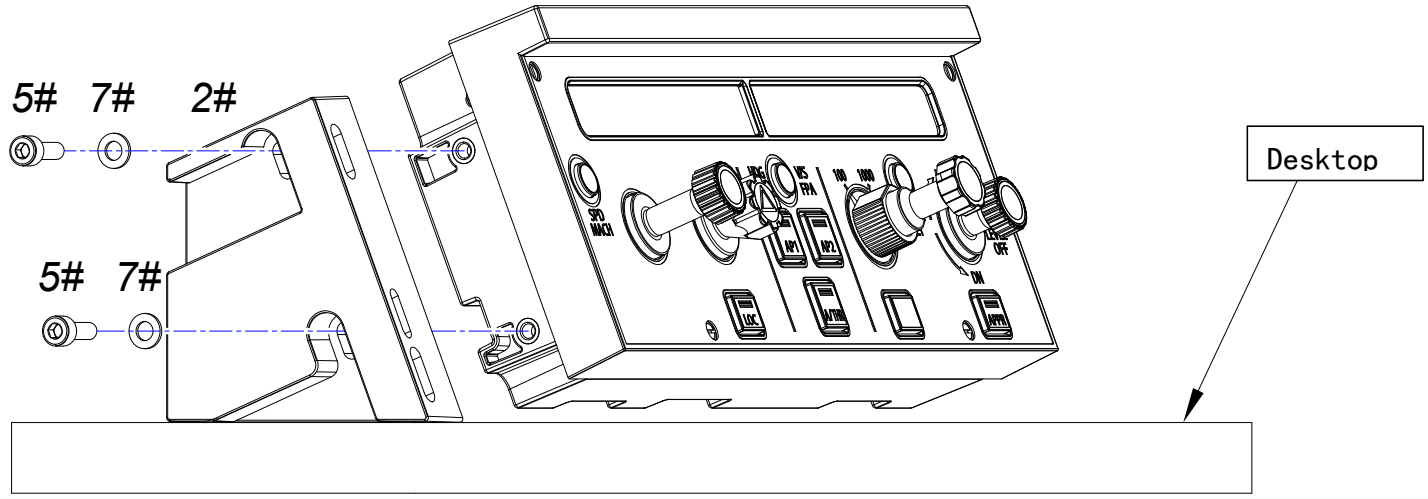
4.1 Bracket Installation

1. Desktop Installation Method 1 (Recommended)

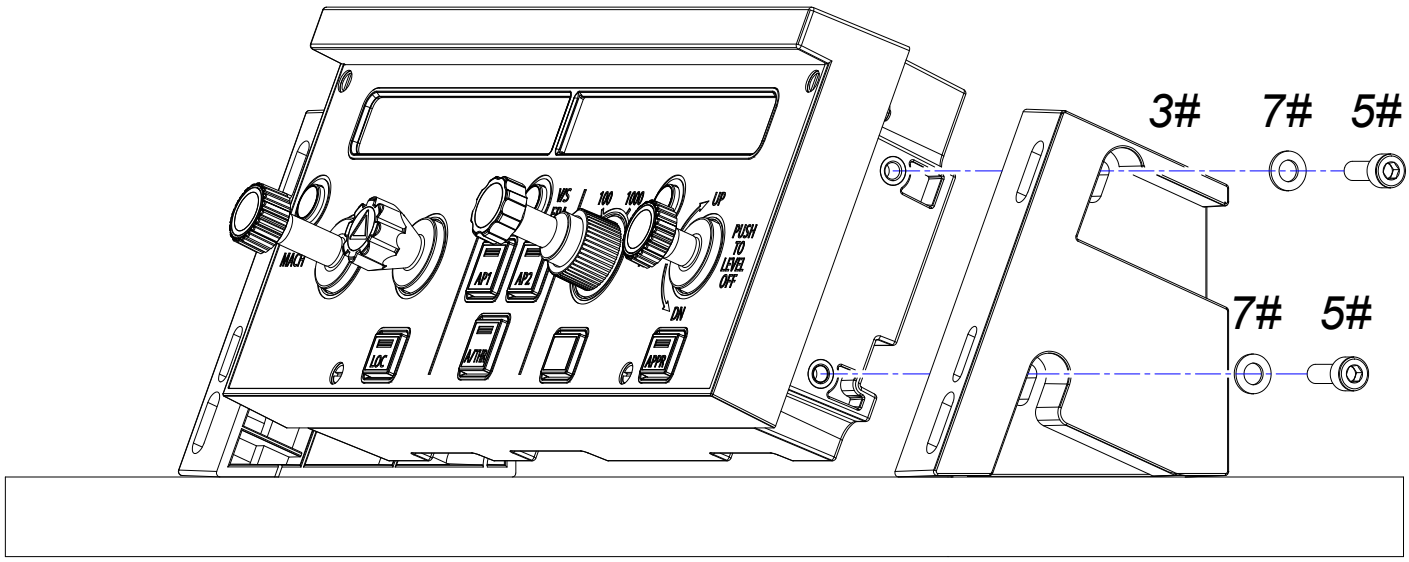
① Bracket Installation Method: Install at a 71-degree angle with the desktop (actual Aircraft perspective is 71 degrees).



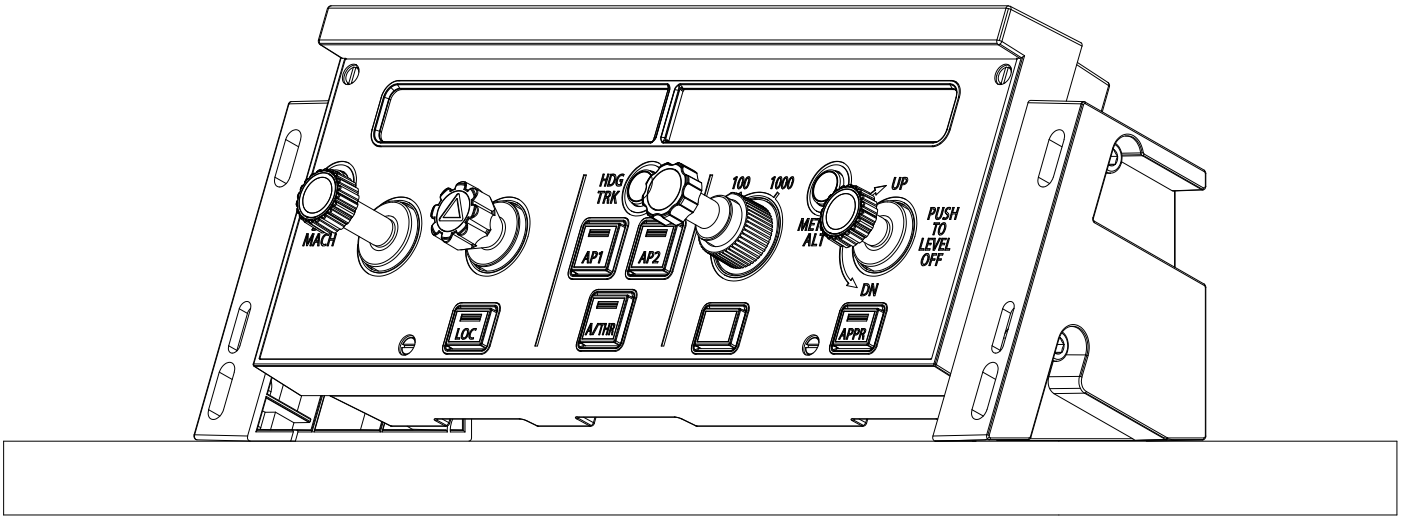
② Left and right bracket installation methods.



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



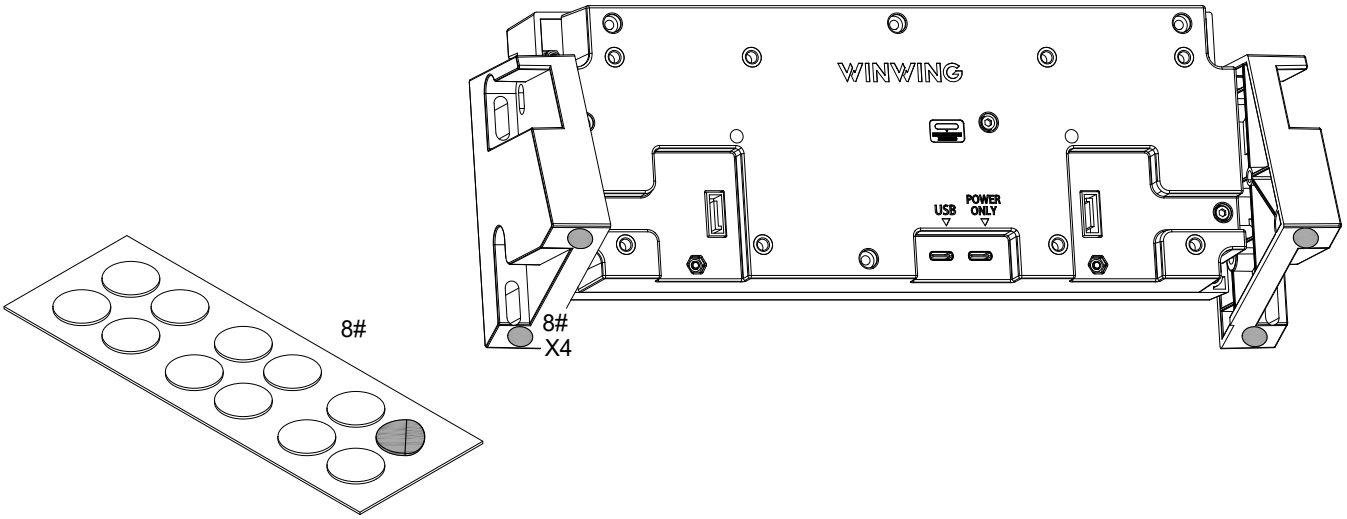
*Turn the screw in place, but do not tighten it yet.



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

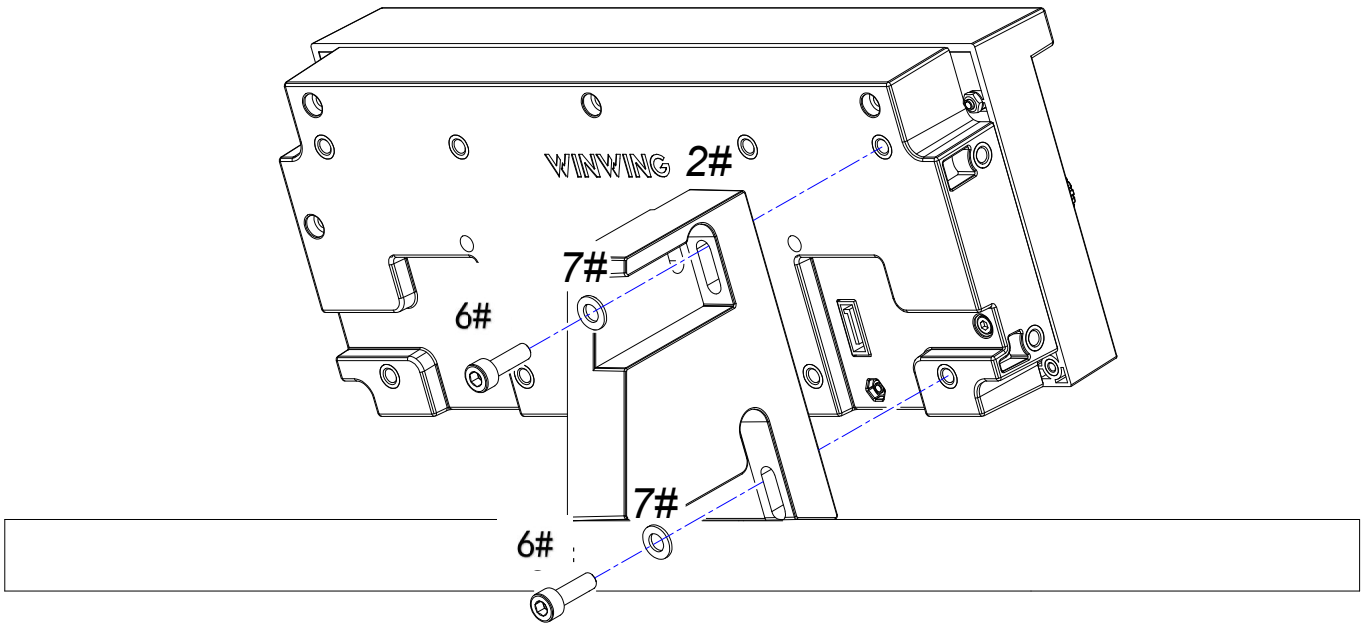
*Tighten the screws until there is no wobbling; over-tightening may cause damage.

③ Apply Nanometer Double Sided Adhesive Dots. (8#)

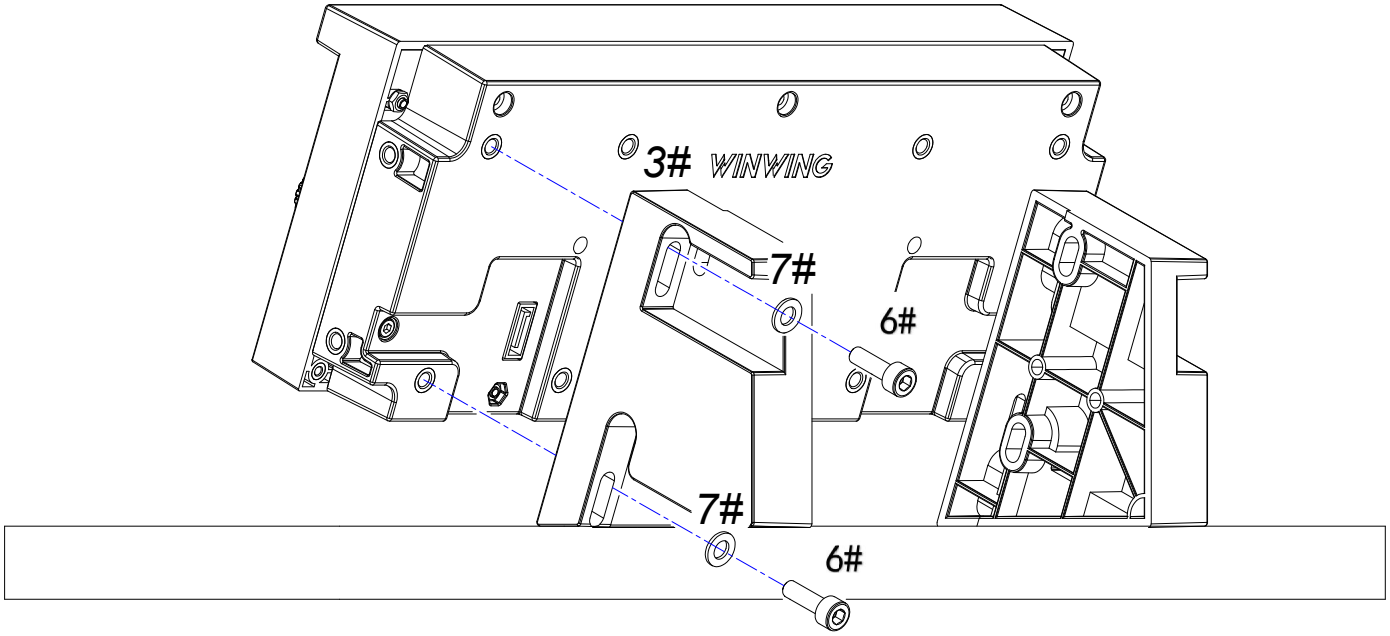


*Clean the dust off the bracket surface before installation.

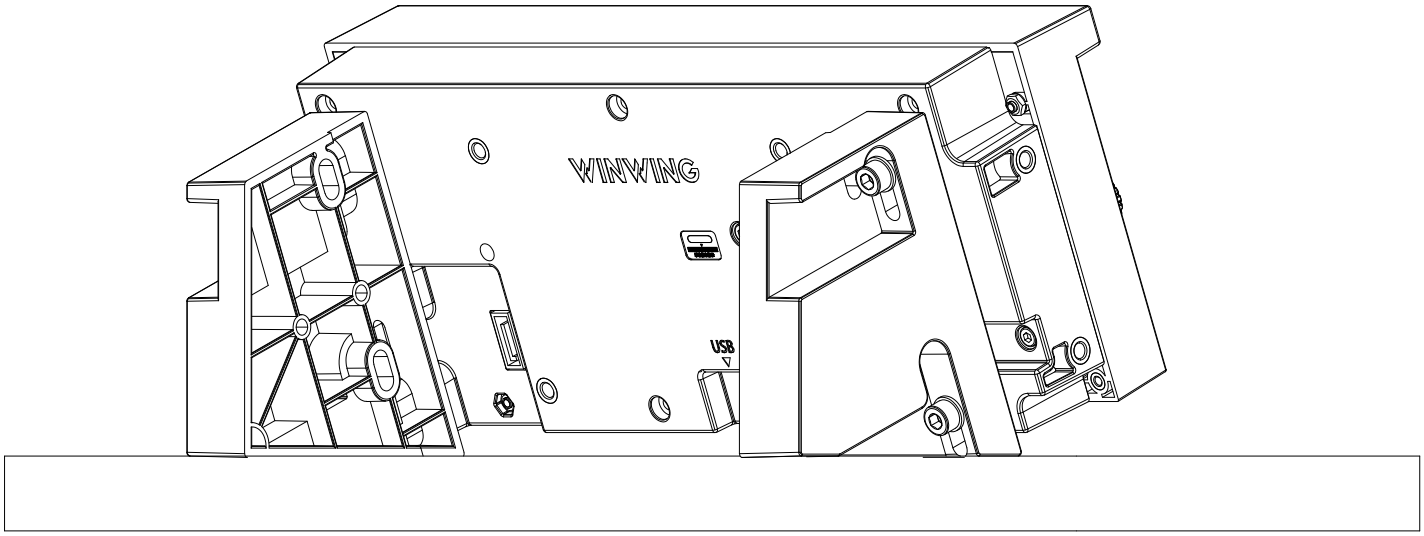
2. Desktop Installation Method 2



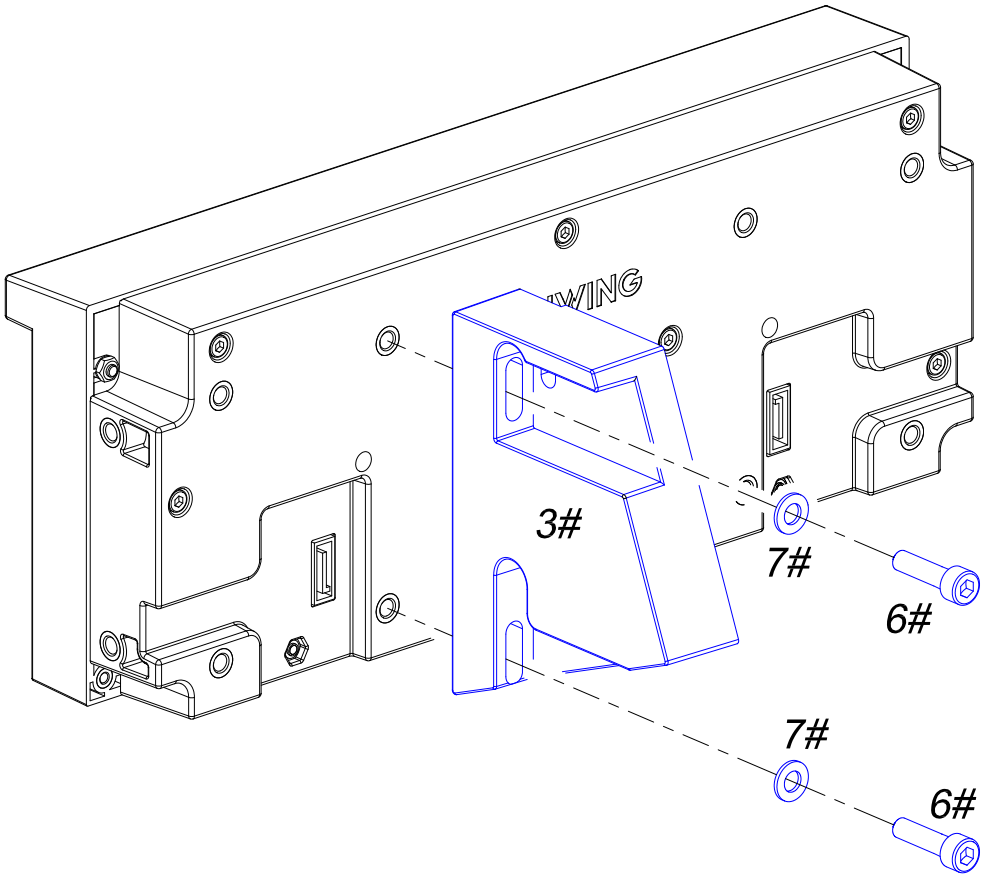
*Turn the screw in place, but do not tighten it yet.

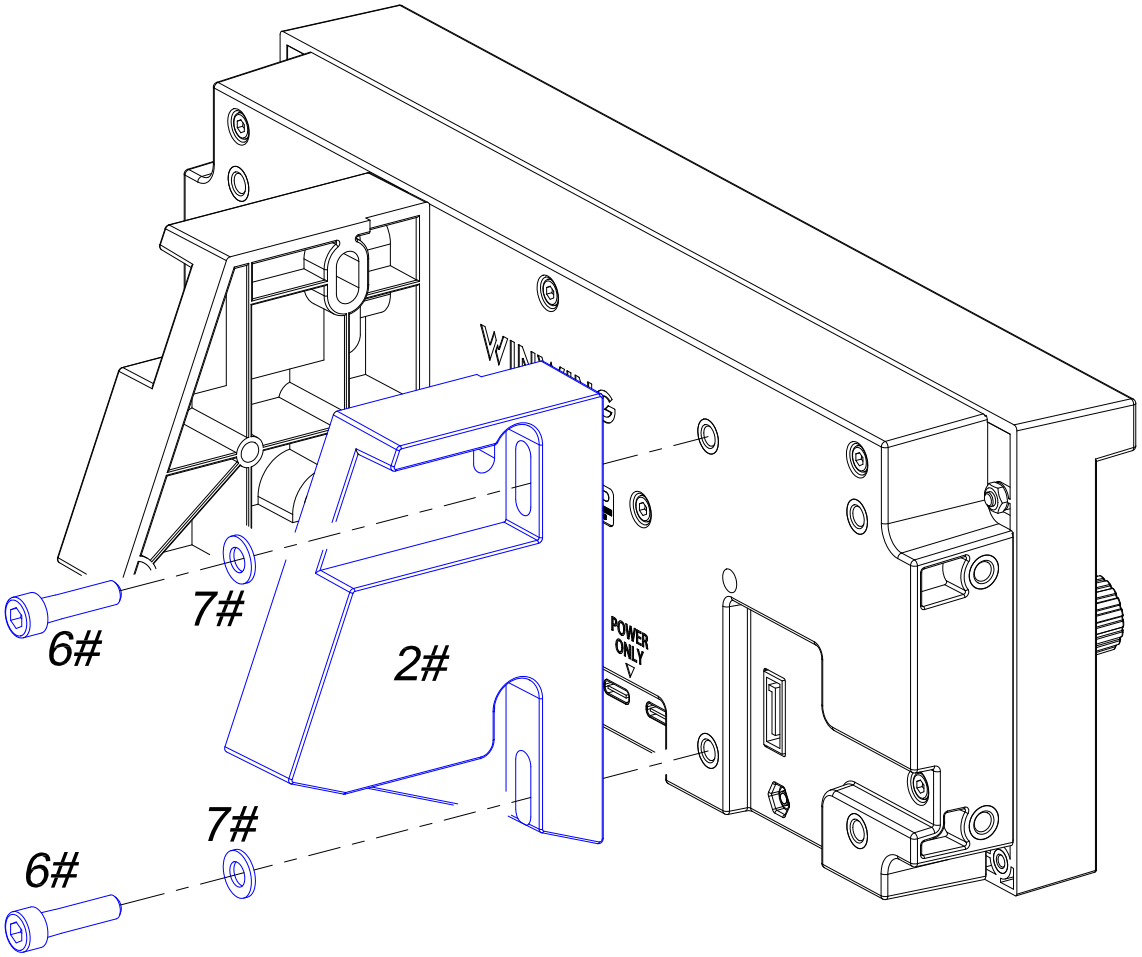


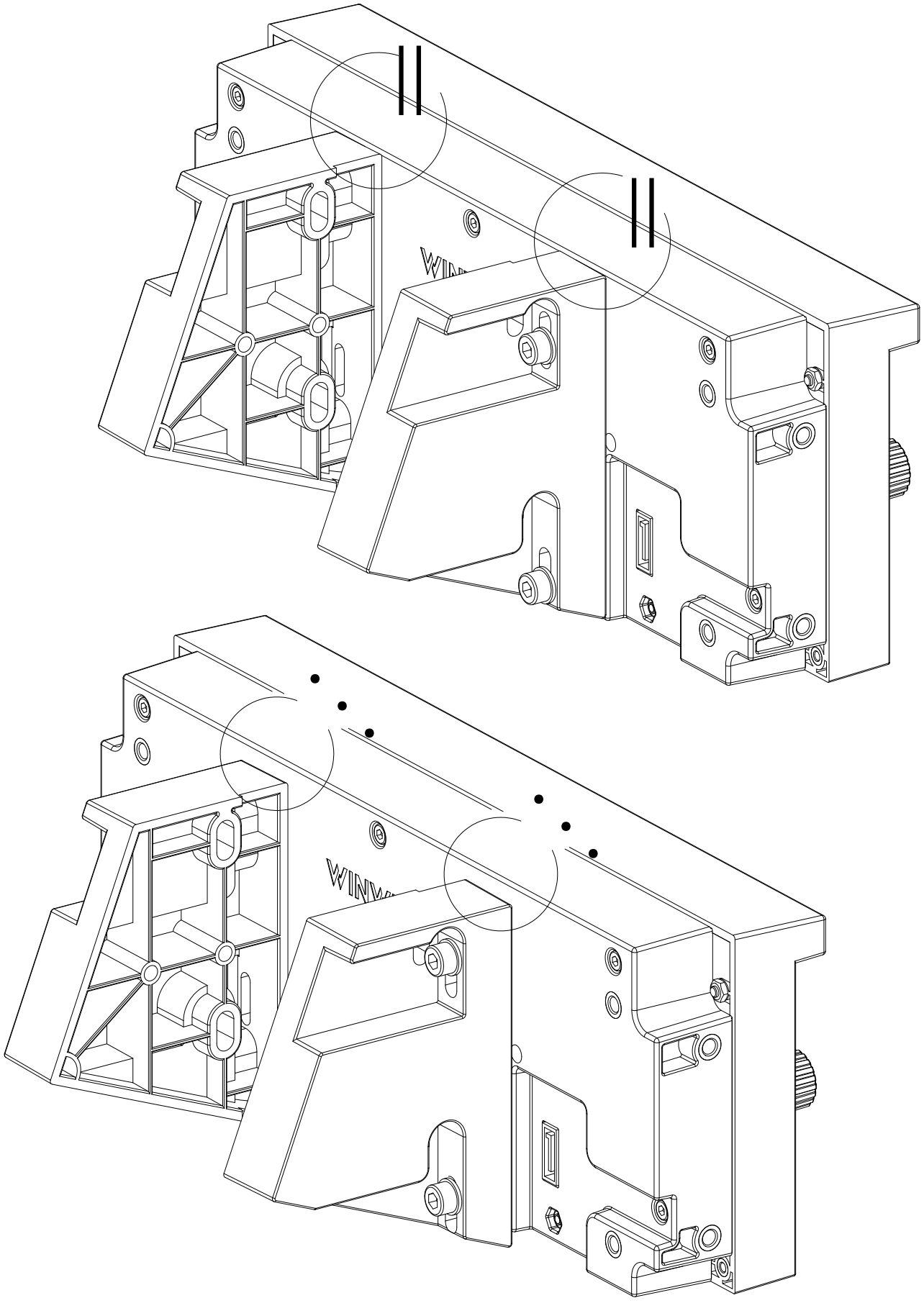
*Turn the screw in place, but do not tighten it yet.



*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.
3. Profiles Installation Method (*profiles and related accessories need to be prepared by yourself)



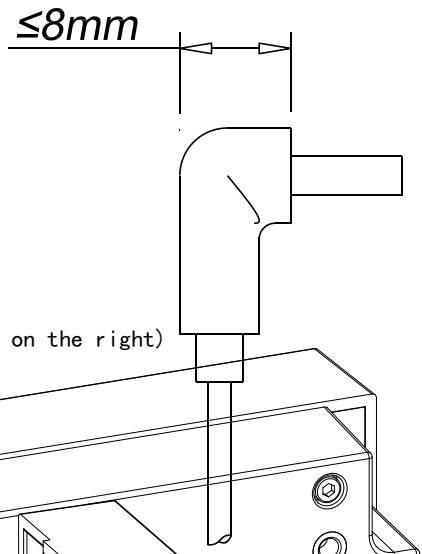

6#
7#
2#
7#
6#
POWER
ONLY

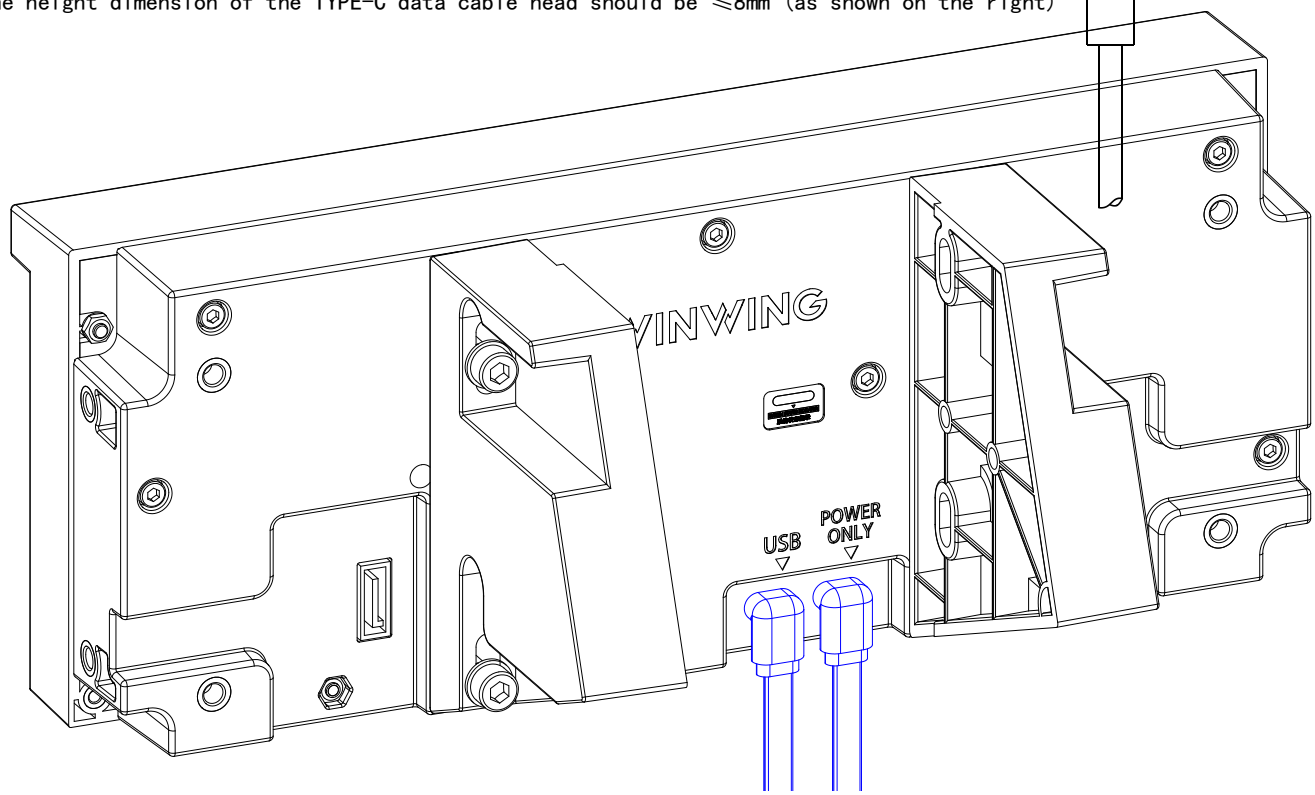


Specifications of Accessories (Recommended)

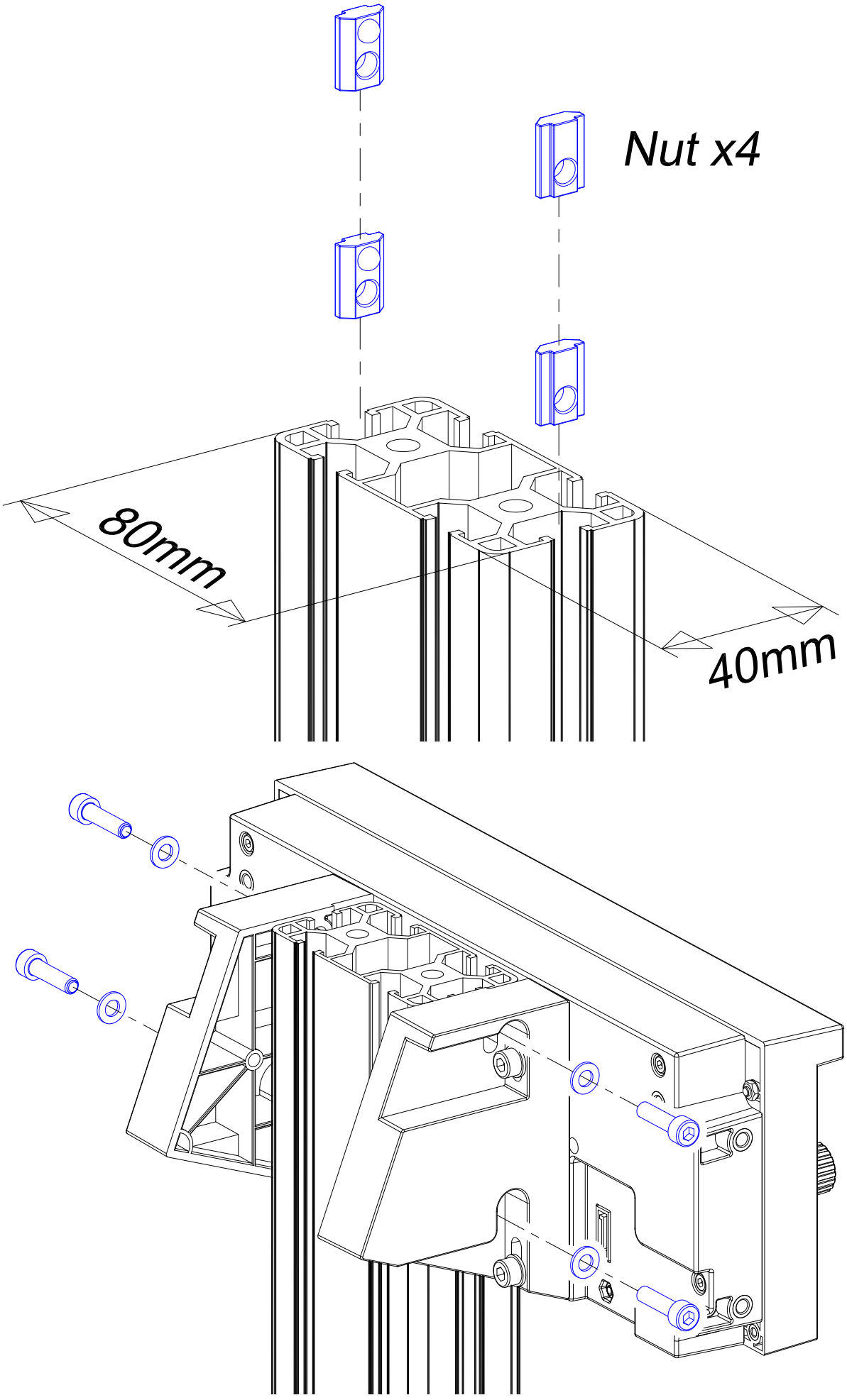
Item	Specifications	Quantity (at least)
Profile	EU Standard 4080	1
Profile Nut	40 type - M5	4
Hexagon socket round screw	M5*20	4
Flat Washer	ϕ5	4
Data Cable	TYPE-C USB	1

*The height dimension of the TYPE-C data cable head should be ≤8mm (as shown on the right)





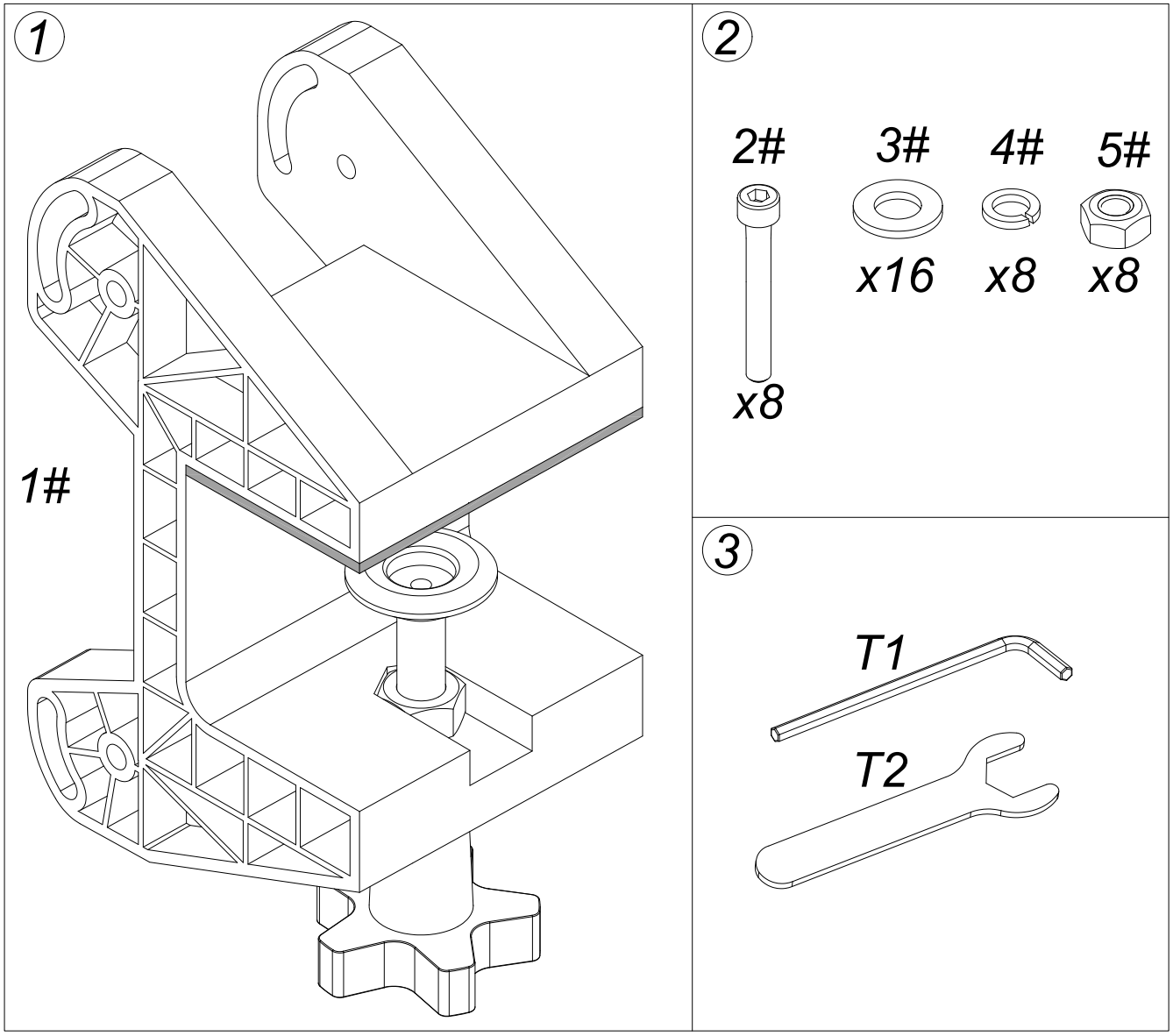
Insert the data cable



4. Panel Mount(MP1) Installation (*MP1 needs to be purchased additionally)

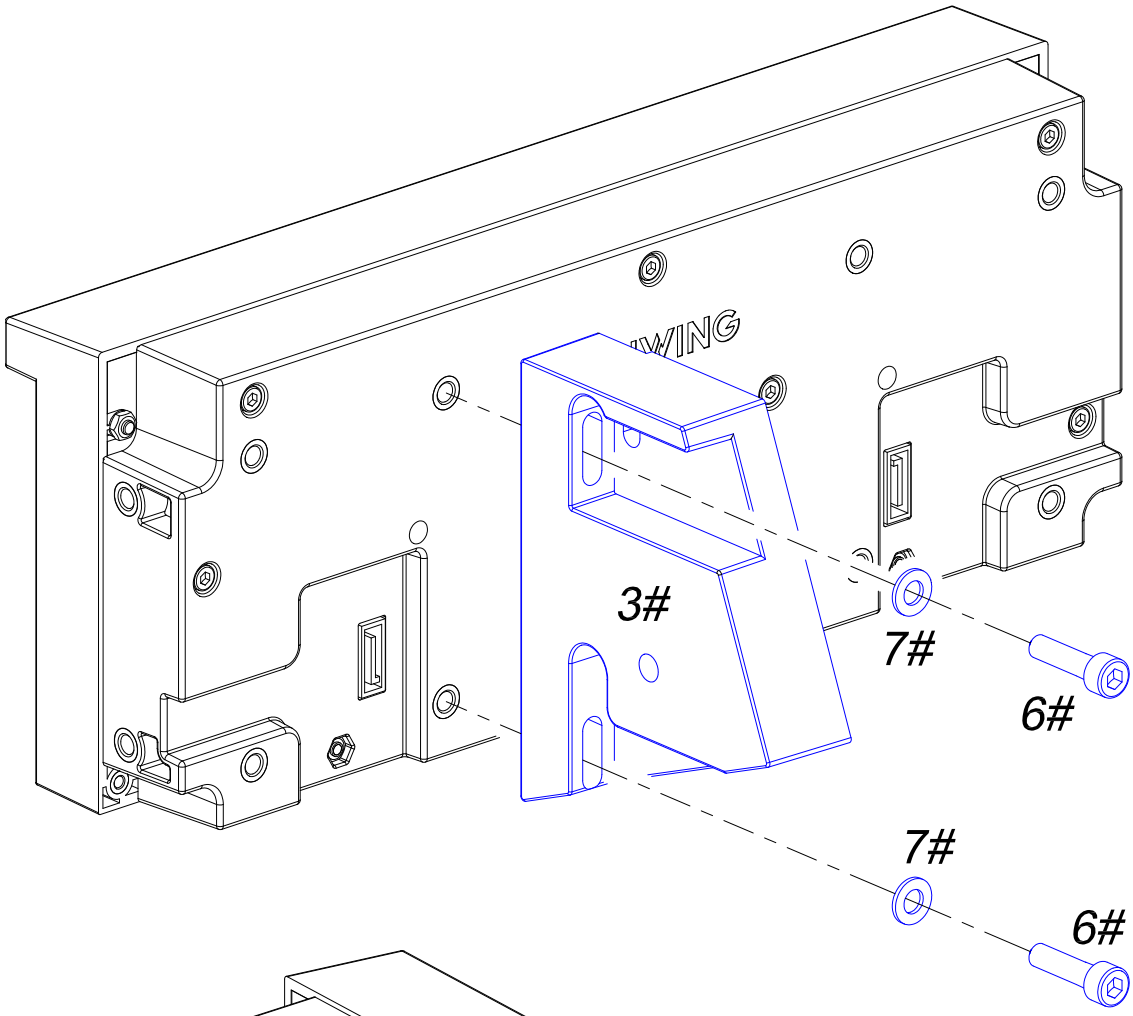
Packing List of MP1

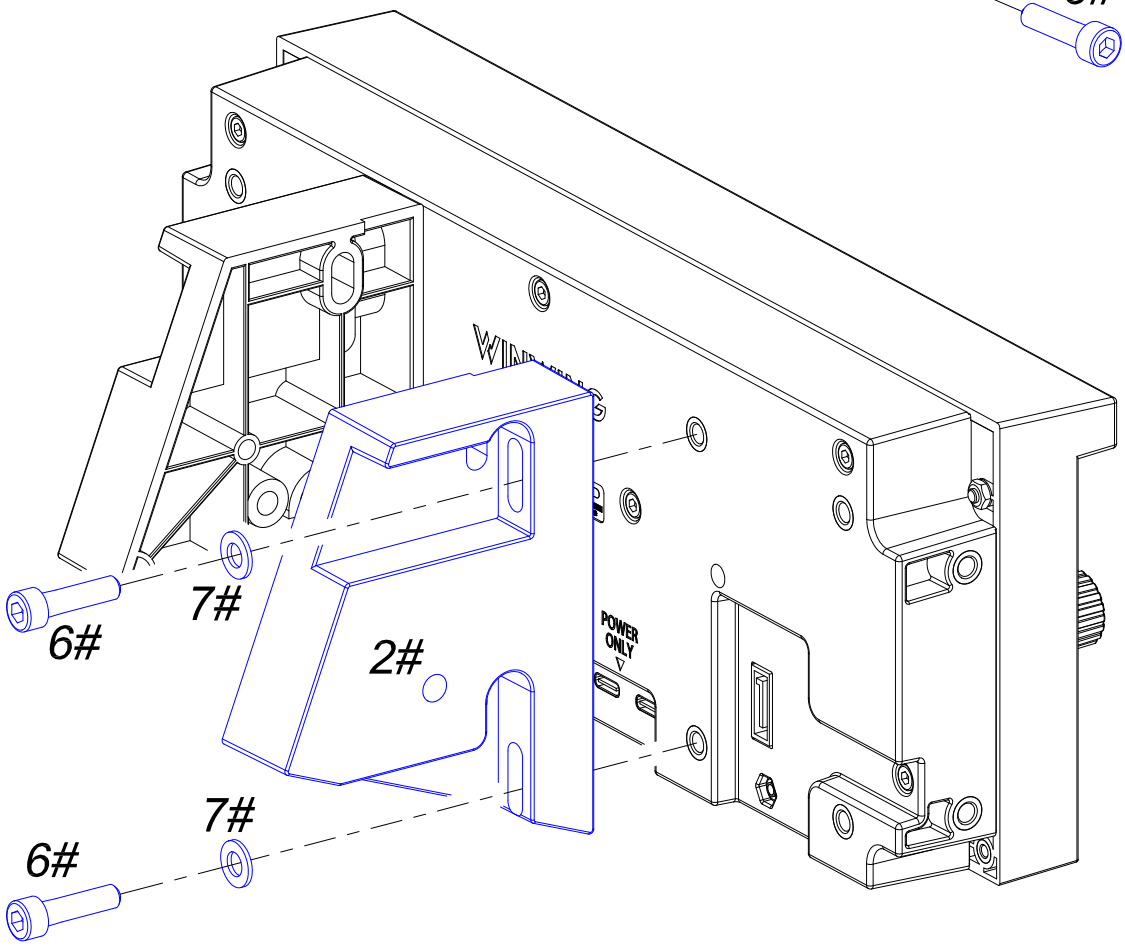
Note: MP1 needs to be purchased additionally, please see MP1 User Manual for details.



In this section, the materials shown in the figure will be described respectively as "MP1+NUMBER" (such as MP1 1#, MP1 2#, MP1 3#……)

Installation Method:





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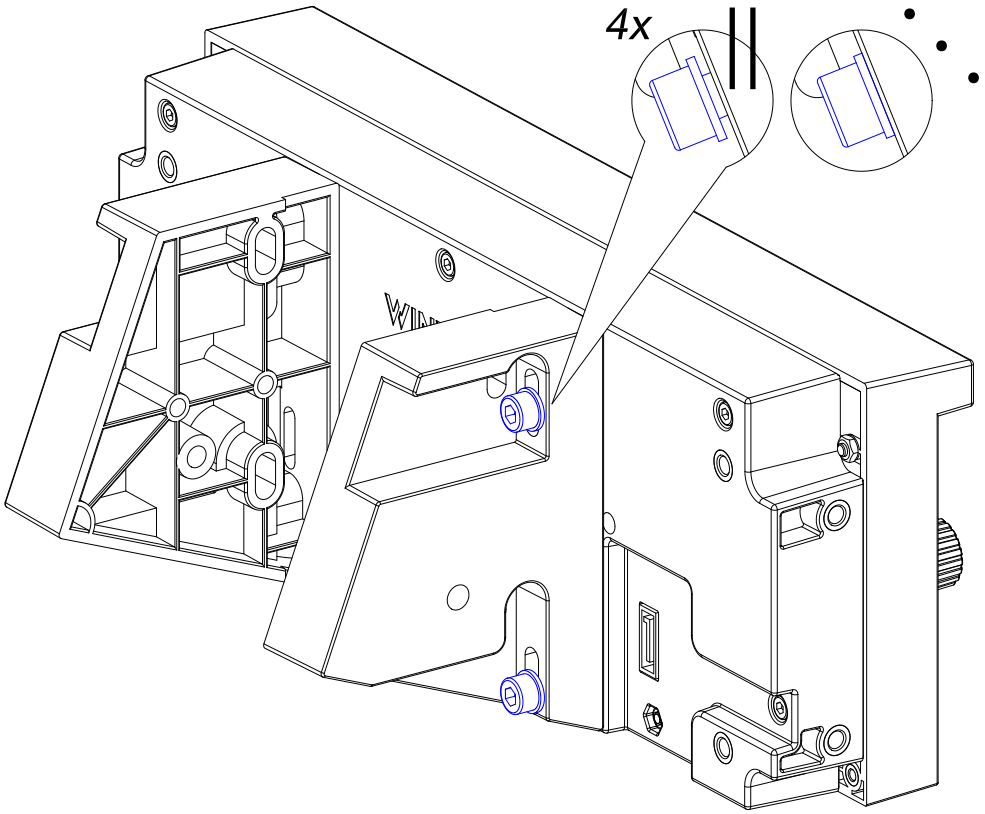

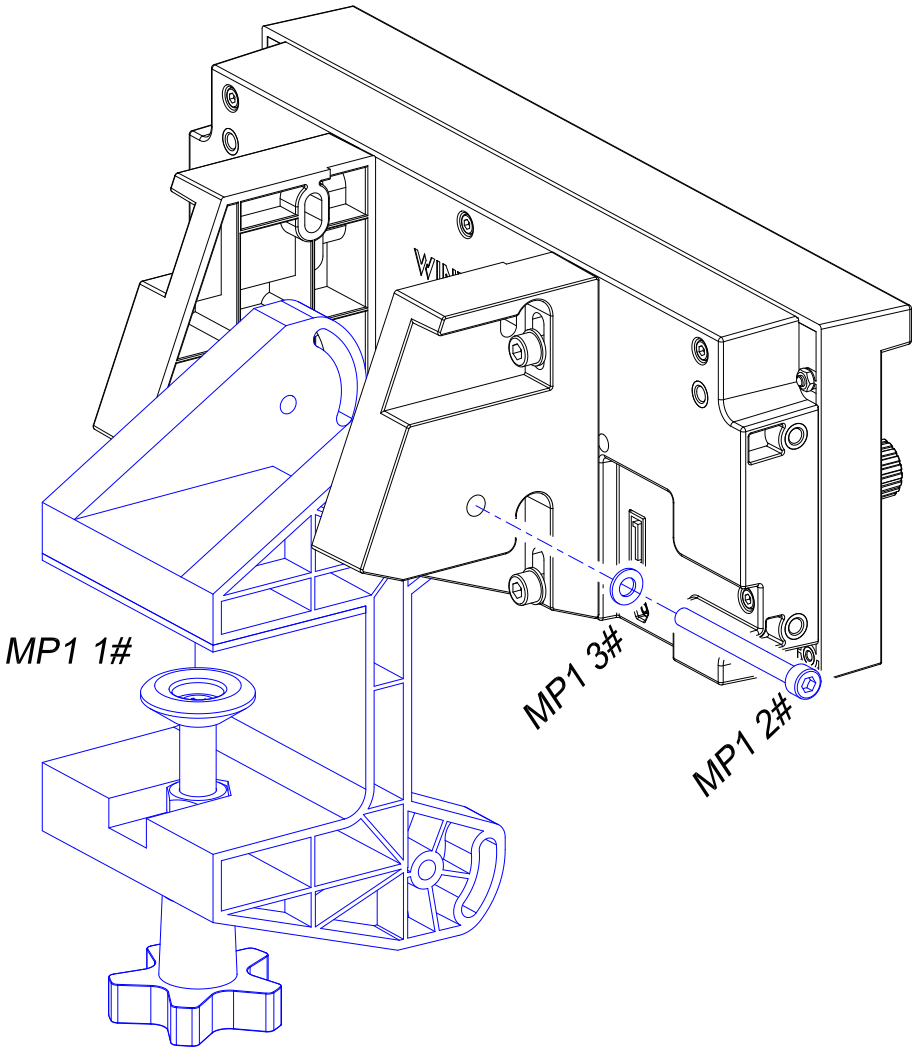

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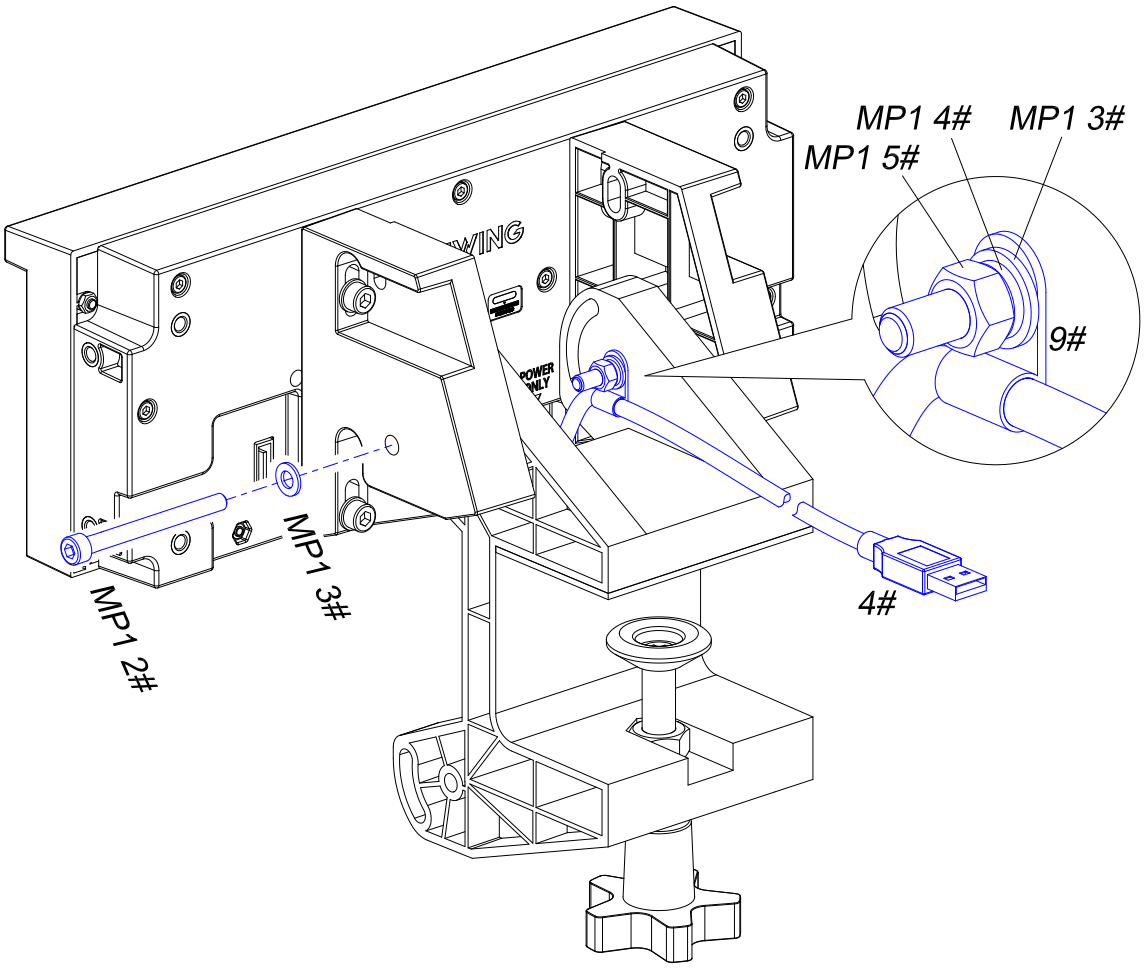

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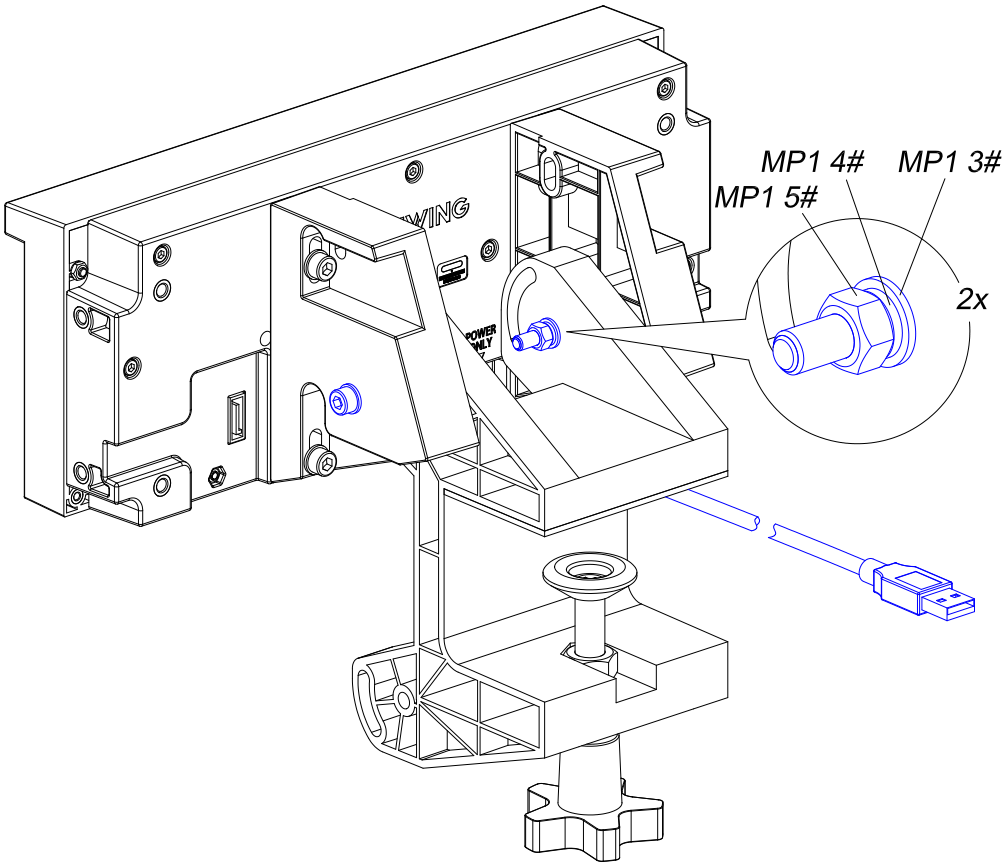

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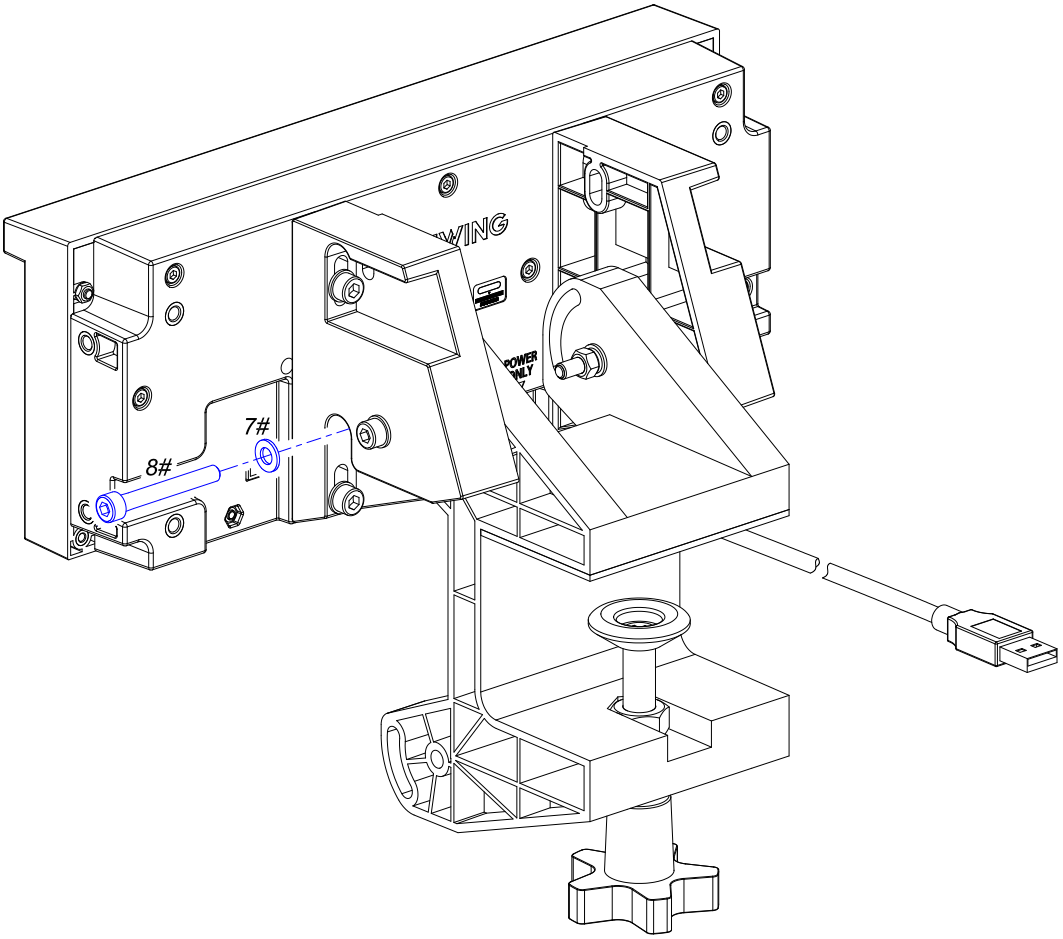
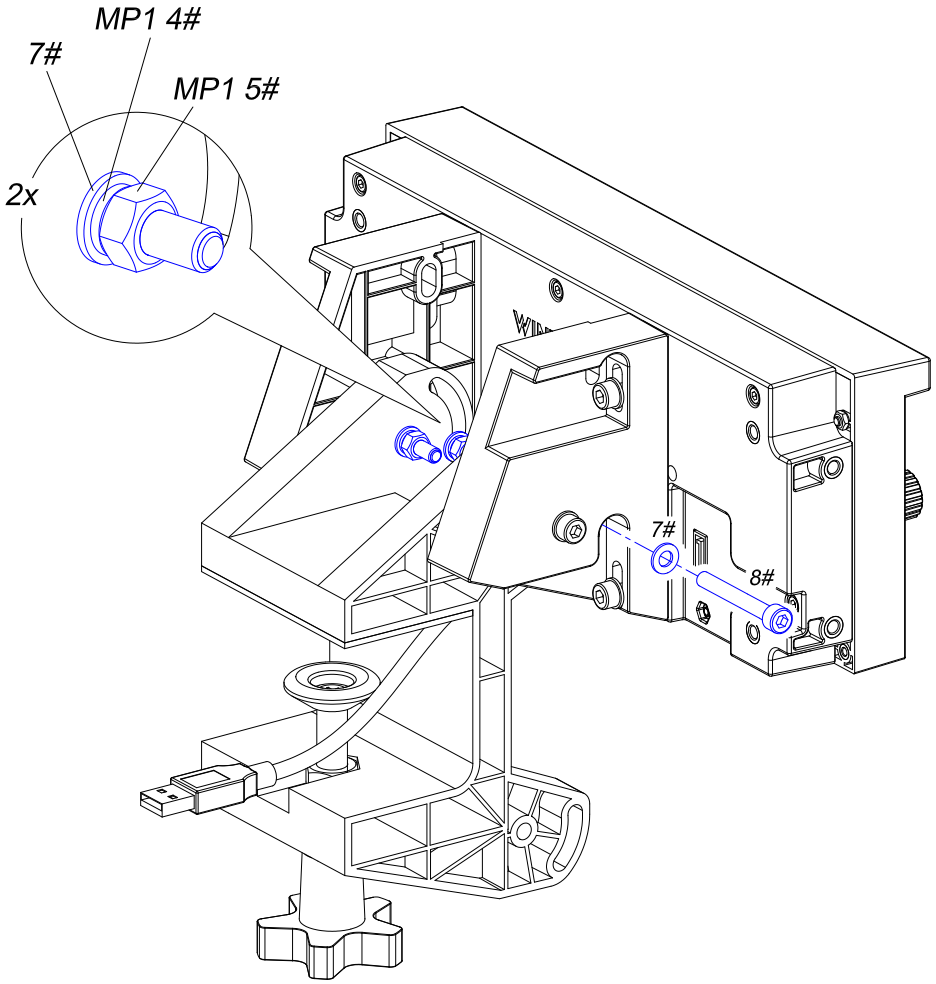
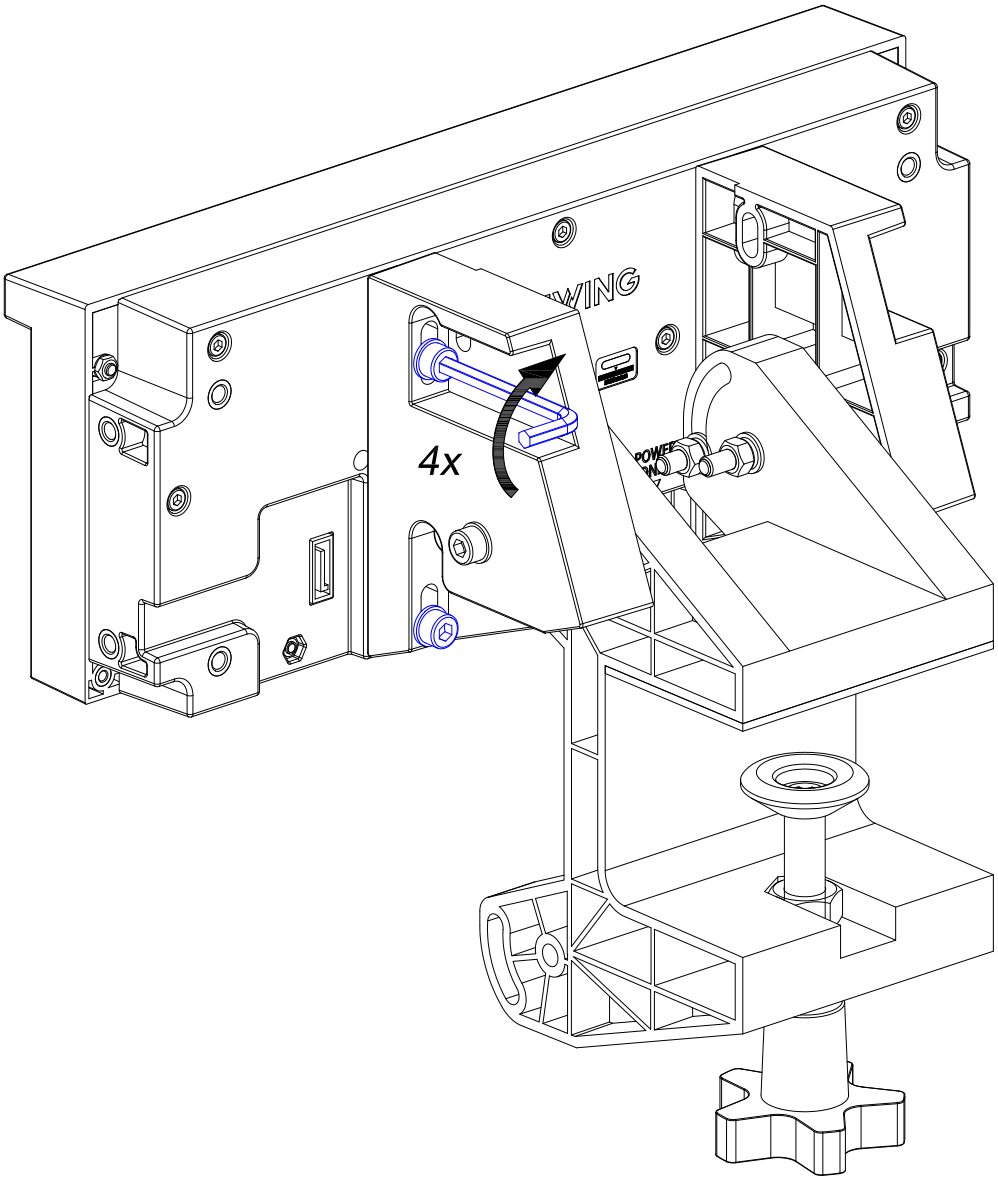
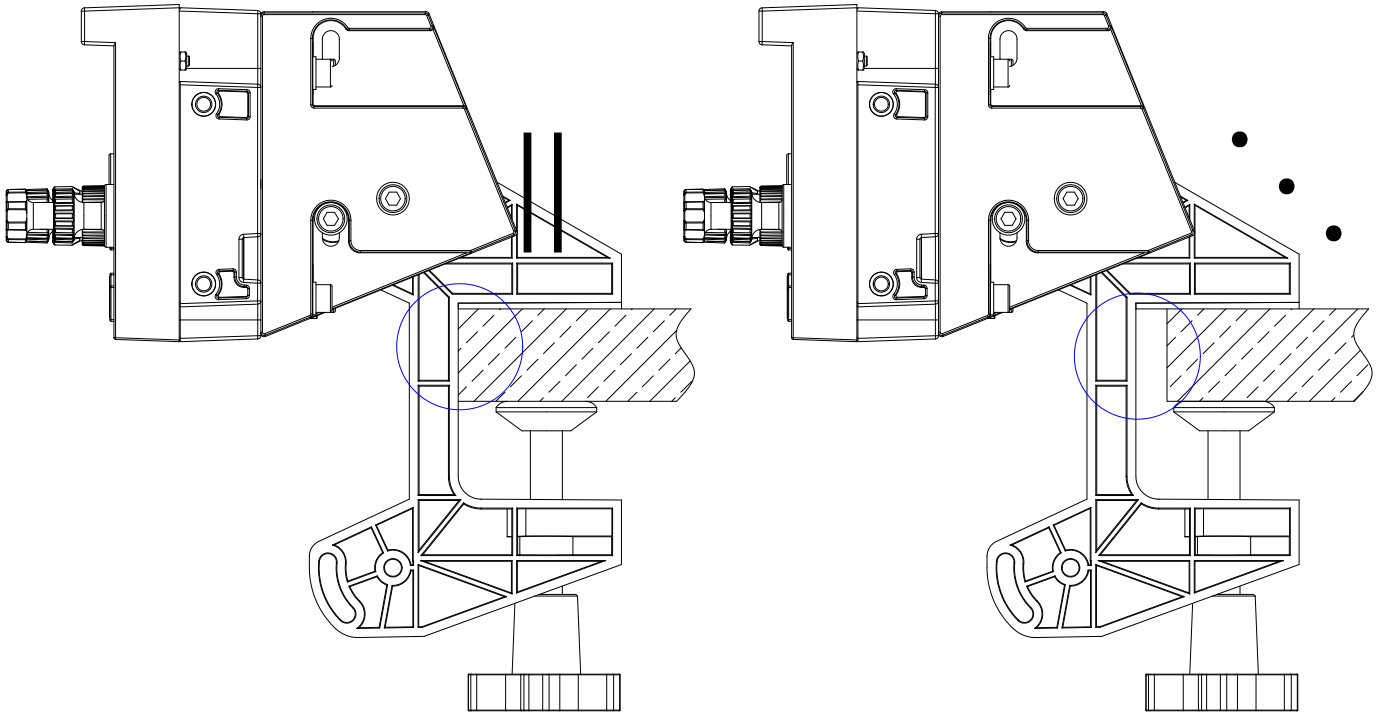

7#
8#


MP1 4#
7#
MP1 5#
2x
7#
8#


4x



4.2 Gaming Seat Mounting

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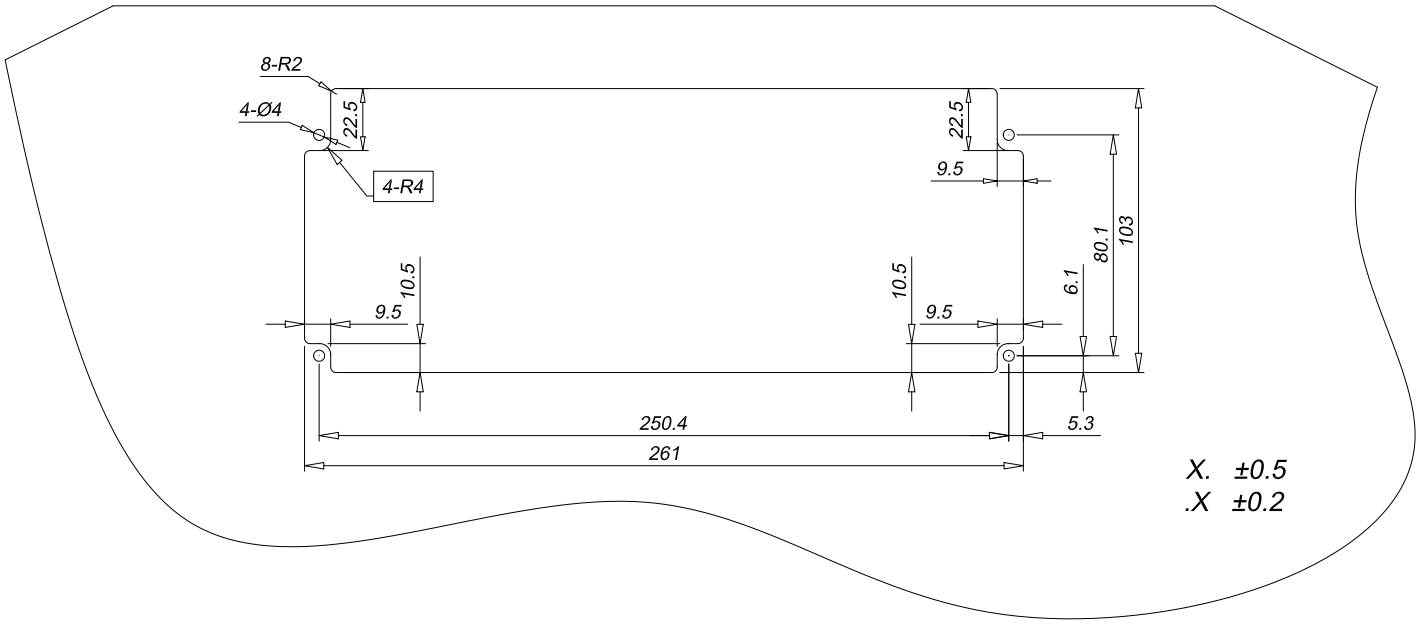
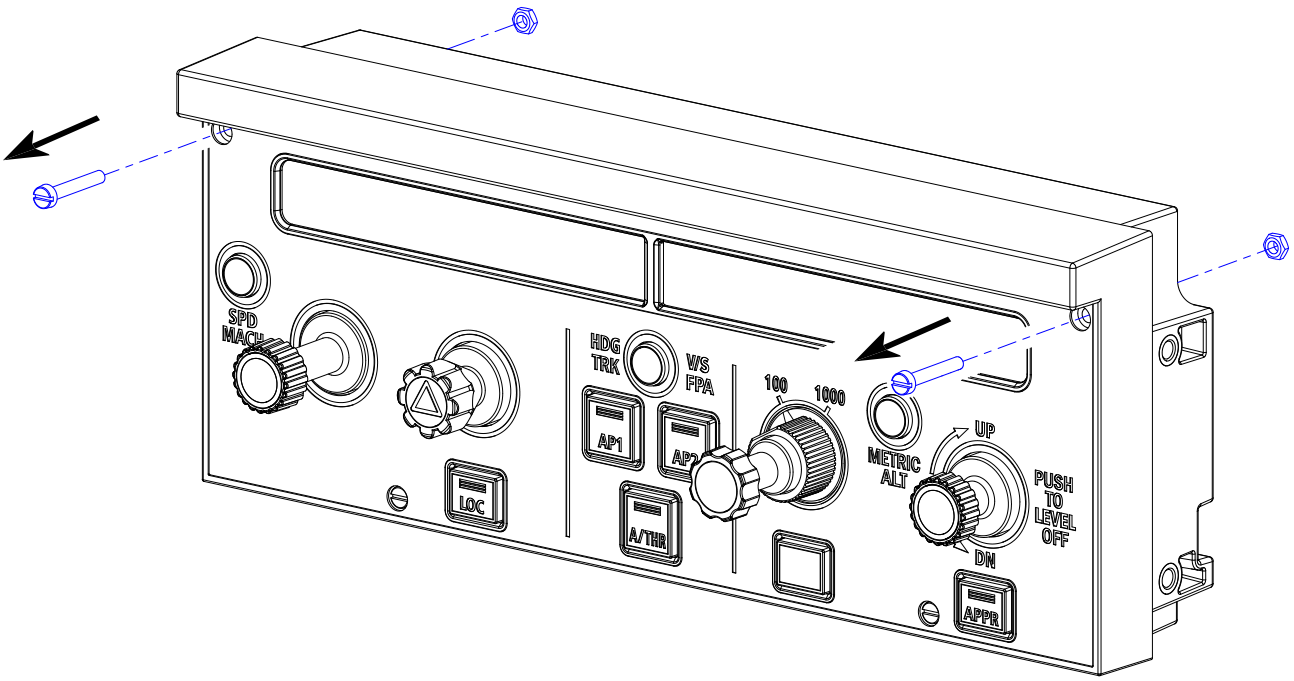
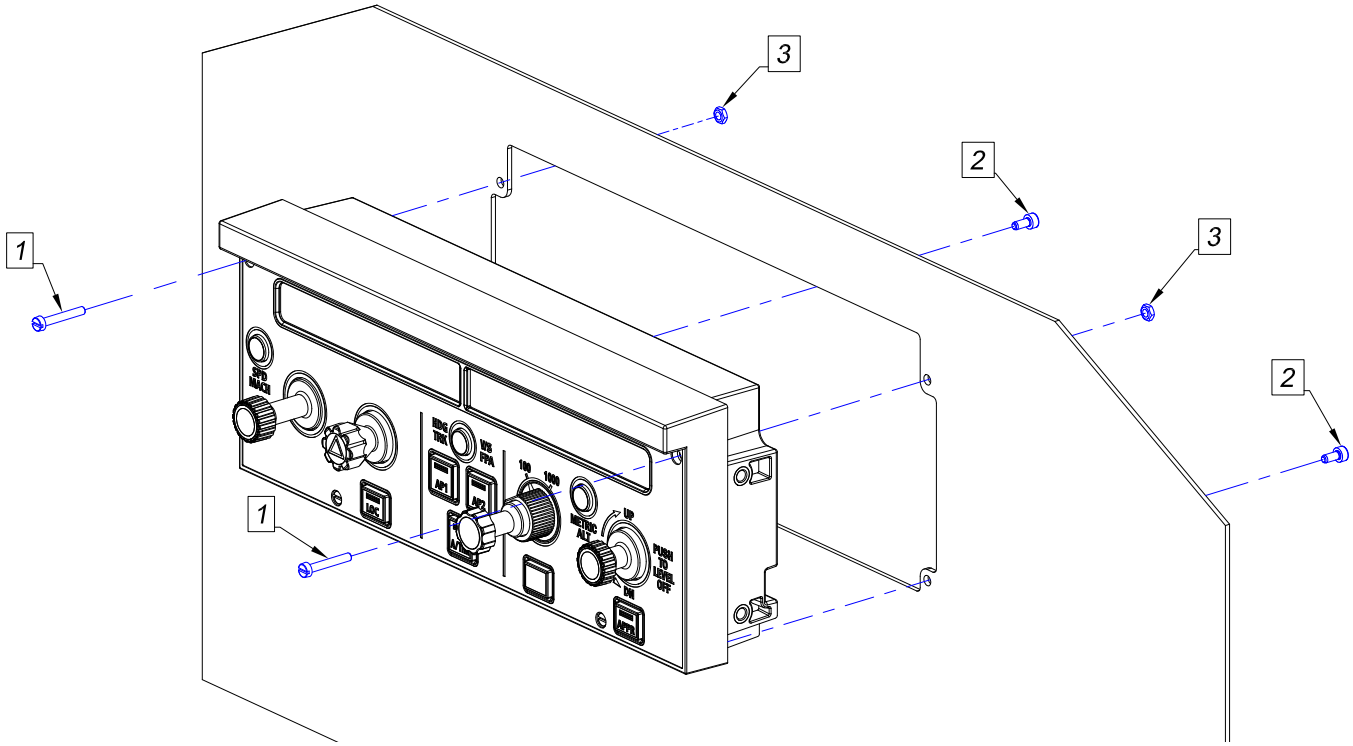
4.3 Cockpit Mounting*

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 screw M3, length = (5~8) + cockpit panel thickness.
3	M3 Hexagon nut M3

4.4Cascading

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

*Contents are subject to updating without notice.

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