

Model: Belluna Super fan
www.belluna.eu/shop/superfan

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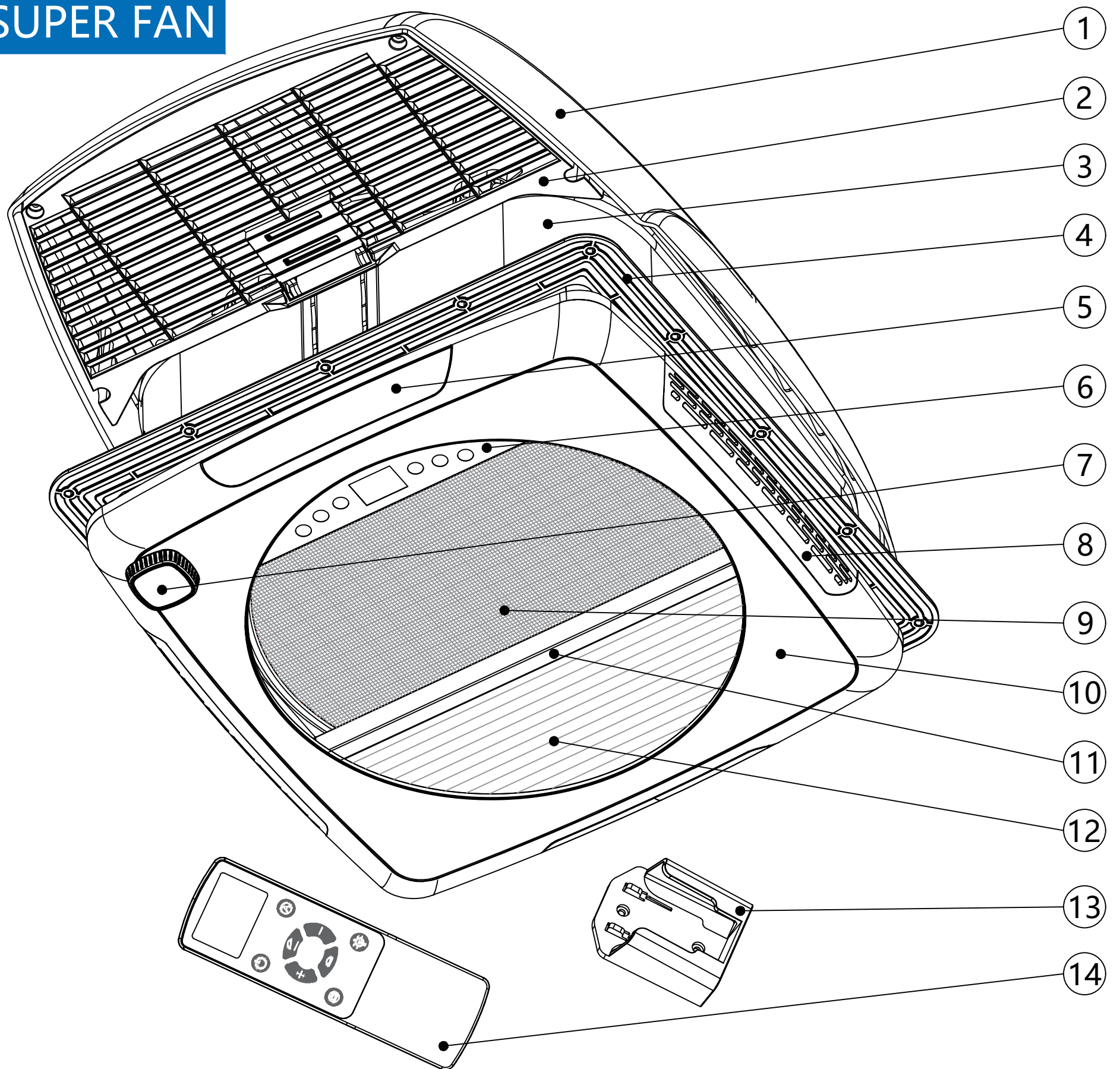
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● Thank you for choosing our product! Please read through this Manual before mounting and keep it properly for further reference.

Main Components

SUPER FAN



- | | | |
|---------------------|--|-----------------------|
| ① Top cover | ⑥ Control panel | ⑪ Push rod |
| ② Outer grid | ⑦ Hand knob | ⑫ Pleated shade cloth |
| ③ Mounting frame | ⑧ Interior trim frame | ⑬ Remote control base |
| ④ Body fixing plate | ⑨ Inner strainer | ⑭ Remote control |
| ⑤ Lampshade | ⑩ Decorative sticker for interior trim frame | |

Descriptions of Functions and Parameters

Safety Protection Function	
Fan blade anti-pinch function	In case of any abnormal resistance when the the fan blade of SUPER FAN is rotating, the fan blade will stop after being blocked, and cannot work normally until its rotation is confirmed normal;
Top cover anti-pinch function	In case of any abnormal resistance during the lifting and lowering of the top cover of SUPER FAN, the top cover will stop immediately and cannot work normally until problem is removed.
Voltage protection	When the input voltage of the SUPER FAN ventilating fan is smaller than 9V or higher than 16V, the SUPER FAN ventilating fan does not work and is under voltage protection to prevent the vehicle battery from draining or the SUPER FAN ventilating fan from being damaged.

Performance Parameters	
Opening size	400mm×400mm
Thickness of mounting wall	27-80mm
Power	Full load power: 20W+4W (max. wind speed and full lighting)
Voltage	Normal voltage: 12V, working voltage: 9-16V respectively 32 V when used in a 24V system
Current	Gear 4 by default: ≤0.23A, full-load maximum current ≤1.6A, locked-rotor maximum current ≤2.0A
Working noise	Air outlet noise of Gear 4 by default of Super FAN ≤ 29dB, air inlet noise ≤32dB;
	Air outlet noise of Gear 10 ≤47dB, air inlet noise ≤52dB;
Max. ventilation	Max. ventilation: 3,000 m³/h
IP rating	IP rating: IPX4
Temperature adjustment in AUTO mode	Default temperature of control panel: 26°C (non-adjustable); range of adjustable temperature in remote control: -2°C~40°C








Precautions

Please read through this Manual before mounting, and install the casement window in strict accordance with the provisions contained in this Manual. In addition, keep this Manual properly for further reference.

To avoid any personal injury or property loss of users and third parties, please observe the safety warnings and precautions contained herein strictly.

• Marks and meanings

	Warning! Failure to abide by the requirements may lead to serious injury or damage.
	Caution! Failure to abide by the requirements may lead to damage.
	Operation is prohibited.
	Relevant information shall be noted.

 **Warning!**


1.Please ask a professional to install the casement window;

2.The manufacturer is not held liable for any damage of the casement window by external force or arbitrary without the explicit permission of the manufacturer;

3.Open the top cover of the SUPER FAN when driving. Please pay attention to the driving height; otherwise the top cover may be damaged when driving;

4.The SUPER FAN must be connected to a power supply of “DC12V, max. 5A” . Do not connect it with other power supplies

5. When connecting power supply with SUPER FAN, please confirm “+” (anode) and “-” (cathode) correctly. The red wire is “+” while the black wire is “-” .

 **Caution!**

1.In case of failure, power off and restart the ventilating fan and reset the fan's parameters. If fault still exists after the measures above, please consult the dealer immediately;







2.Please pay attention to the height limit on road when the top cover is opened during driving, so as to avoid damaging the top cover after collision;

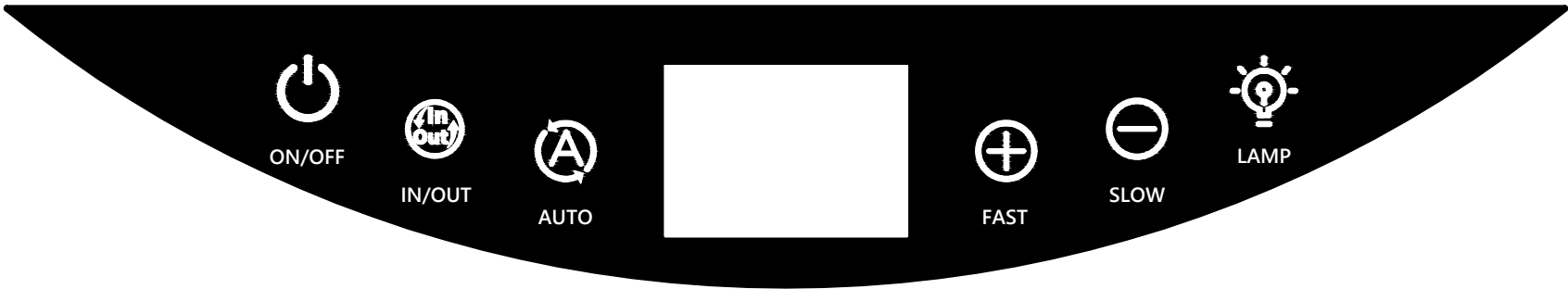
3.Please pay attention to the weather conditions when opening the top cover of the ventilating fan while driving. Do not open the top cover in strong wind or heavy rain;

4. When manually closing/opening the top cover, please turn the handle to completely close/open the top cover. Do not turn the handle again after completely closing/opening, so as to avoid damaging the manual function of the ventilation fan.










How to Use SUPER FAN

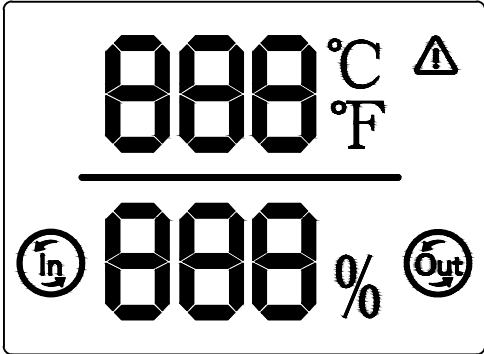
Control panel

Touch icons	 ON/OFF	 IN/OUT	 AUTO	 FAST	 SLOW	 LAMP
Corresponding	Power	In or Out	AUTO	FAST	SLOW	LAMP



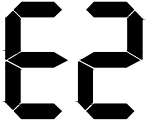


Control Panel

Display icons					
Function	Current indoor temperature	IN/OUT	FAST	SLOW	Fault Display
Icon	<div> FAST</div> <div> SLOW</div> <div>Press and hold to switch temperature units</div>	<div> IN/OUT</div>	<div> FAST</div>	<div> SLOW</div>	Fault Display



LCD Display Content in Control Panel

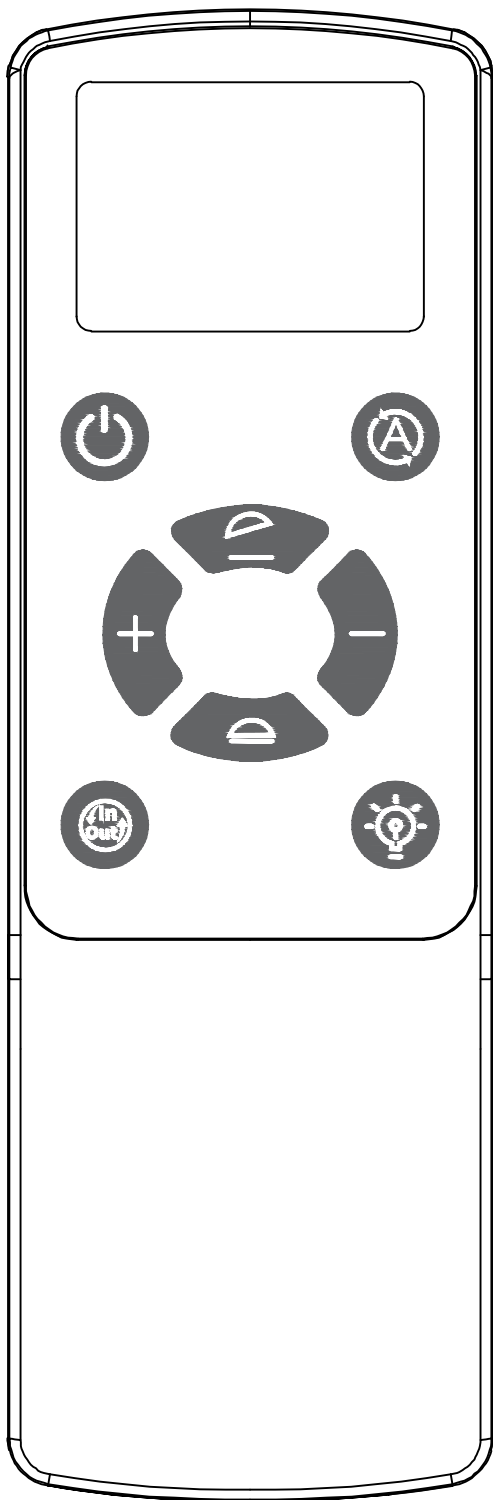
Fault code 	
	Voltage < 9V
	Voltage > 16V



Startup temperature of the control panel under automatic mode by default: 26°C/79°F!

How to Use SUPER FAN

Remote control



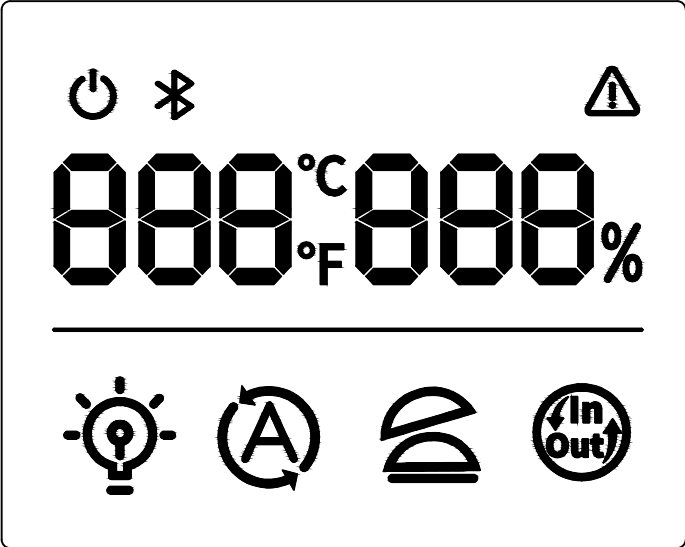
Button icon in remote control	Corresponding functions	Remarks
	Power switch	Press it to turn on or press and hold it turn off
	AUTO mode	Adjust the temperature and turn on and off automatically
	Forward and backward rotation of fan	Low noise and comfort during air inlet and out
	LAMP	Remote control of warm white light
	Fan acceleration	Stable acceleration from Gear 0 to 10
	Fan deceleration	Fast deceleration from Gear 10 to 0
	Top cover on	Light transmission during ventilation can prevent mosquitoes
	Top cover off	Sealed design for reducing effect stylish interior
















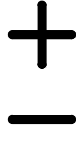

Please turn off the power when leaving the vehicle for a long time!

How to Use SUPER FAN

Remote control LCD screen



Fault code 	
E1	Voltage < 9V
E2	Voltage > 16V





Remote control LCD icons	Corresponding functions	Button icons of remote control
	Power switch	
	AUTO	
	IN/OUT	
	LAMP	
888%	FAST	+
888%	SLOW	-
	Top cover on	
	Top cover off	
888°C 888°F	Switch temperature unit	 Press and hold to switch temperature nits
	Fault code	Fault code



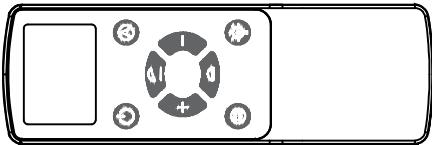


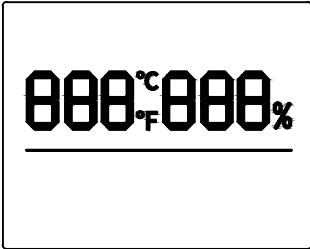
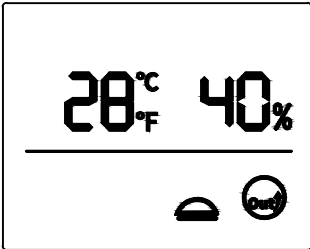
Short press, unless otherwise specified.

How to Use SUPER FAN

Descriptions of special functions: AUTO mode

	Remote control		Control panel
	Short press to enter AUTO mode		Short press to enter AUTO mode
Set the temperature to: Adjustable temperature When the indoor temperature is 2 °C higher, the ventilating fan will automatically open the top cover and fan to exhaust air		The default setting temperature is: 26°C/79°F When the indoor temperature is 2°C higher than the default temperature, the ventilating fan will automatically open the top cover and fan to exhaust air outwards	
Set the temperature to: Adjustable temperature When the indoor temperature is 2 °C, lower than the set temperature, the ventilating fan will automatically close the top cover and fan		The default setting temperature is: 26°C/79°F When the indoor temperature is 2°C lower than the default temperature, the ventilating fan will automatically close the top cover and the fan	
Temperature adjustment methods for remote control setting: Press " + - " in remote control to adjust temperature in AUTO mode		The default setting temperature does not need adjustment	

Descriptions of special functions: Pair code in remote control

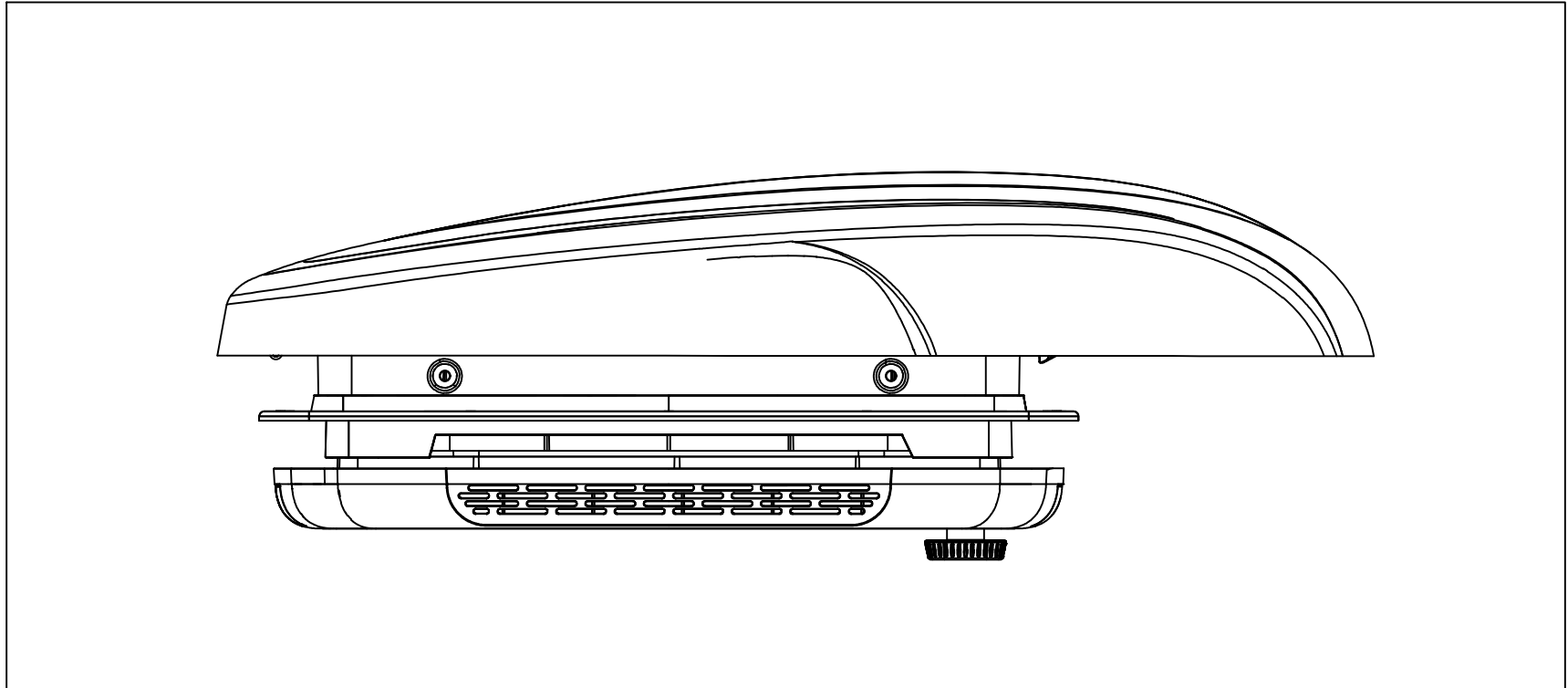
	Code matching in remote control		
Press   button in remote control for 3s within 20s after SUPER FAN is powered on	Enter the code matching state		
After successful code matching, the host buzzer will give out a long sound of "di....."	Success status of matching code		



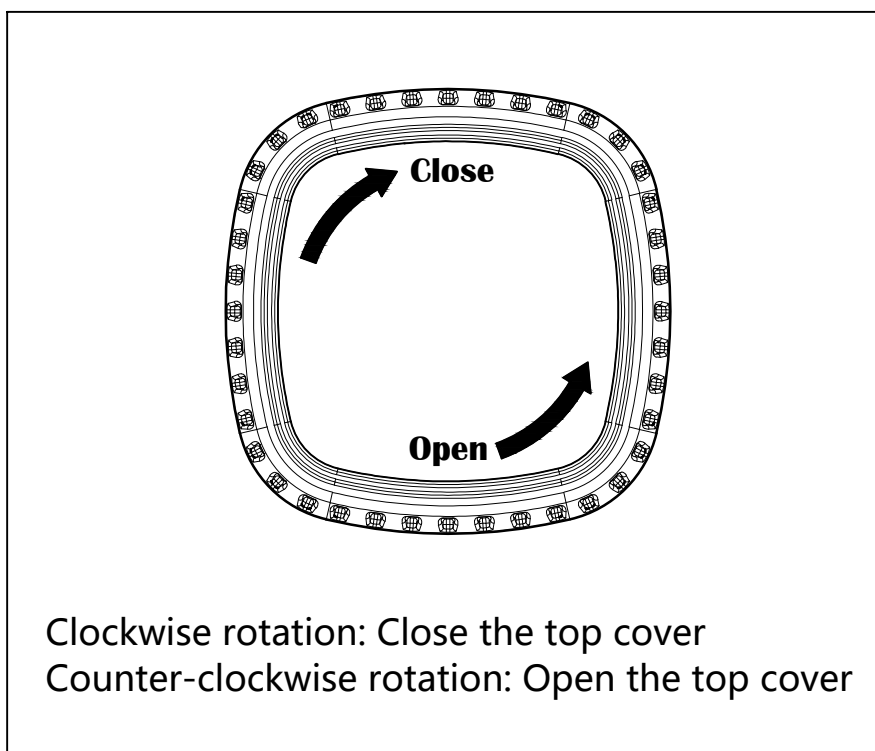
The code matching must be completed within 20 s after the ventilating fan unit is powered on (if the matching is not completed, power off and then power on again for matching once again).

How to Use SUPER FAN

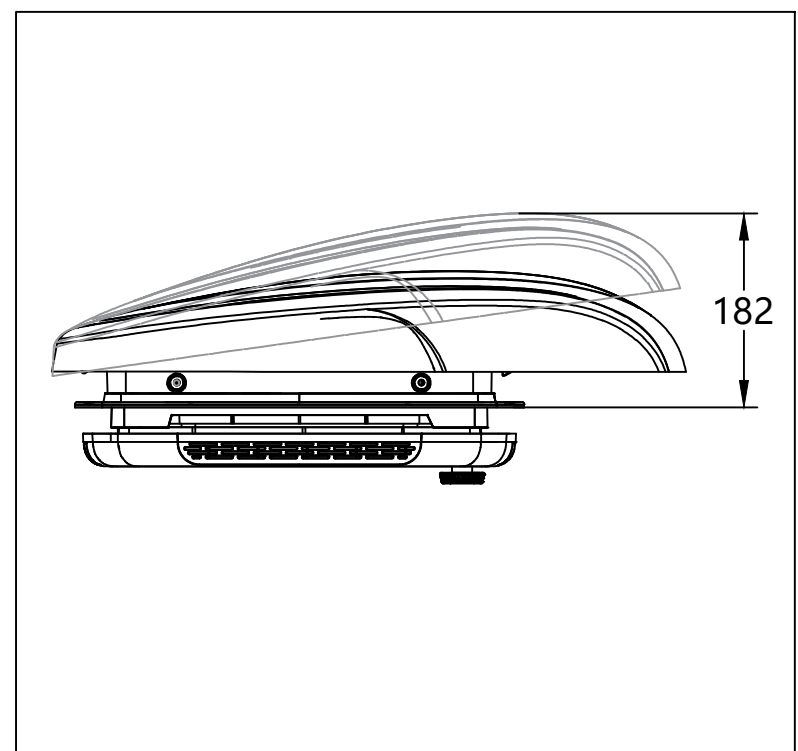
Manually open/close the top cover



Manually turn the handle to manually open/close the top cover of the ventilating fan



Hand knob



Open max. height



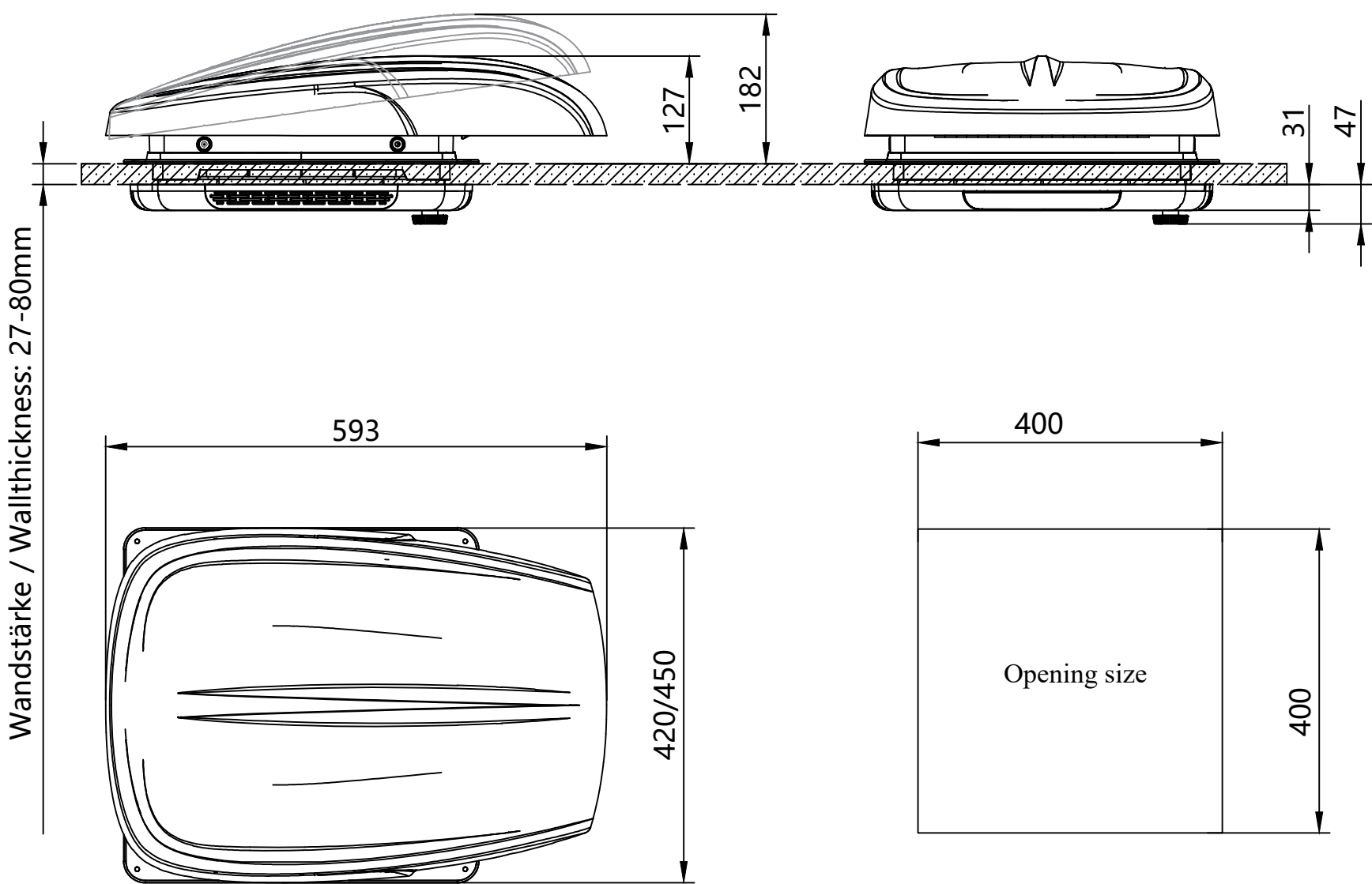
When manually opening the top cover, it is recommended to manually open it after powering off the ventilating fan.



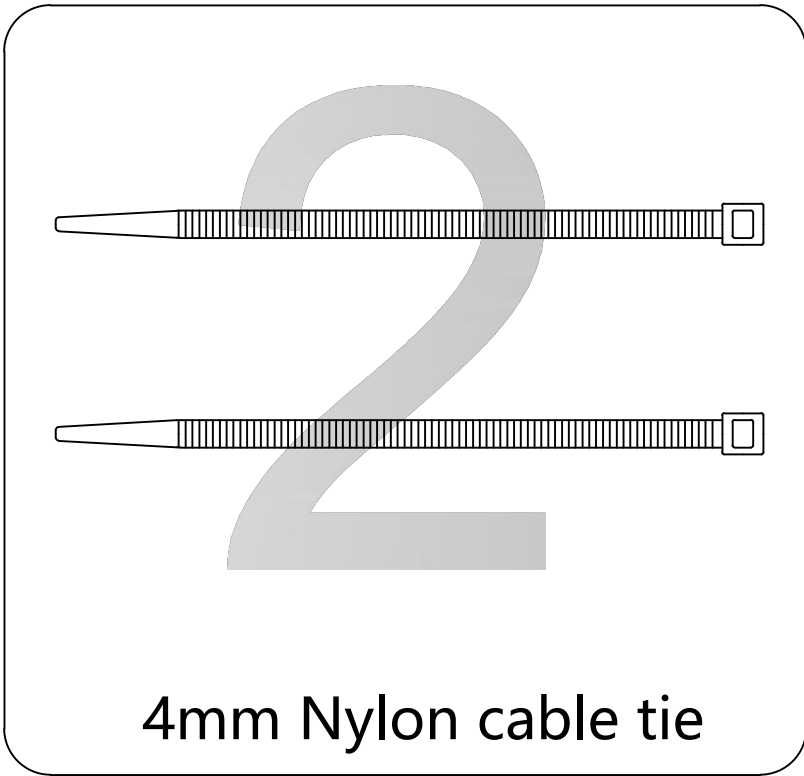
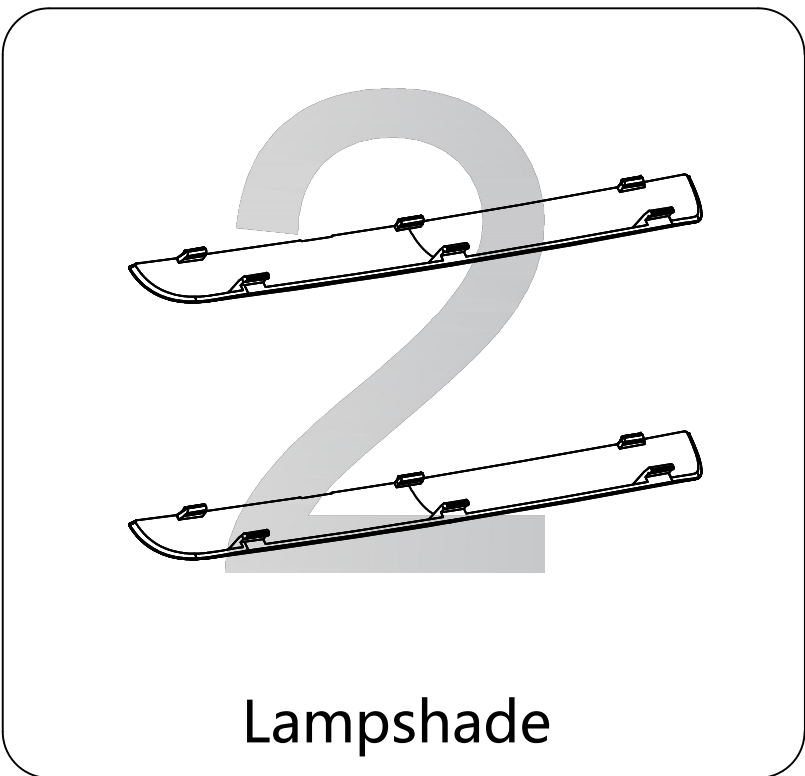
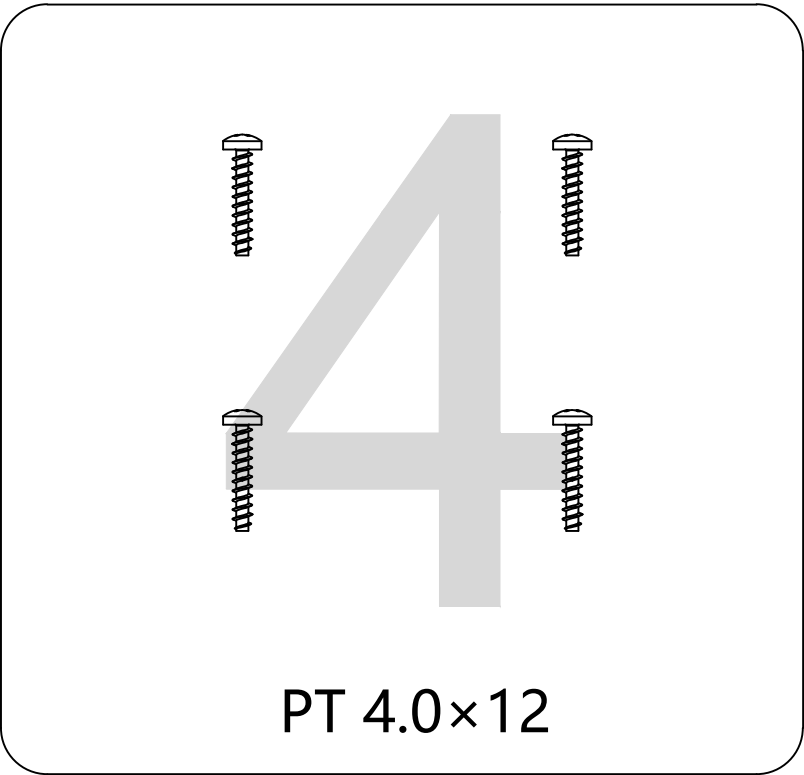
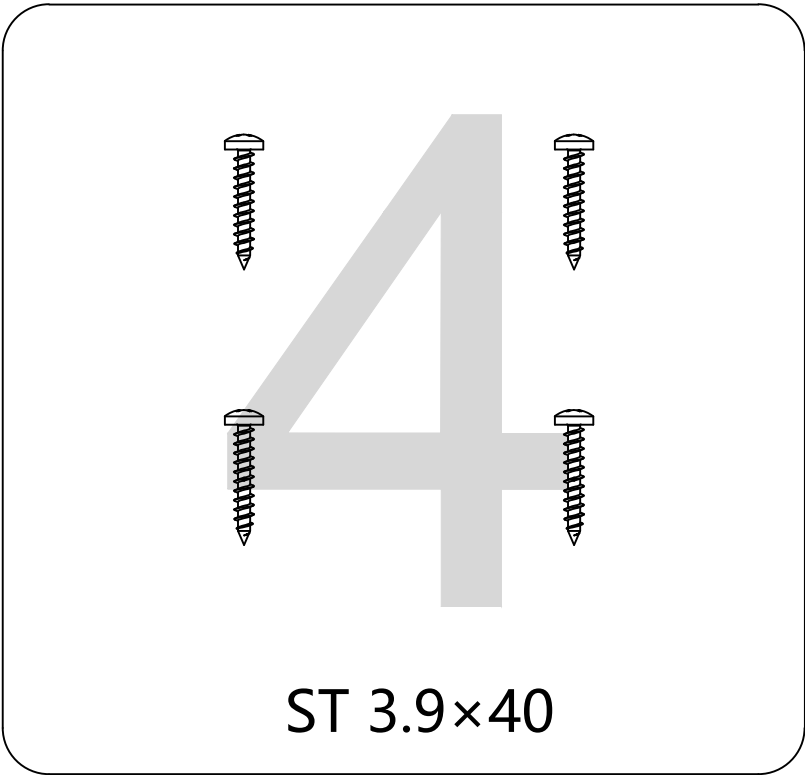
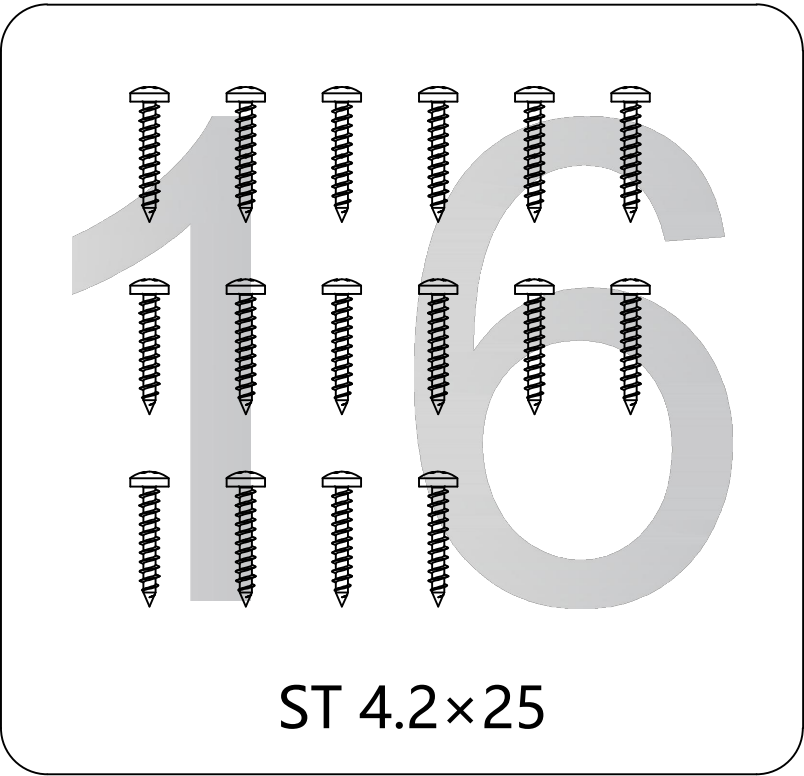
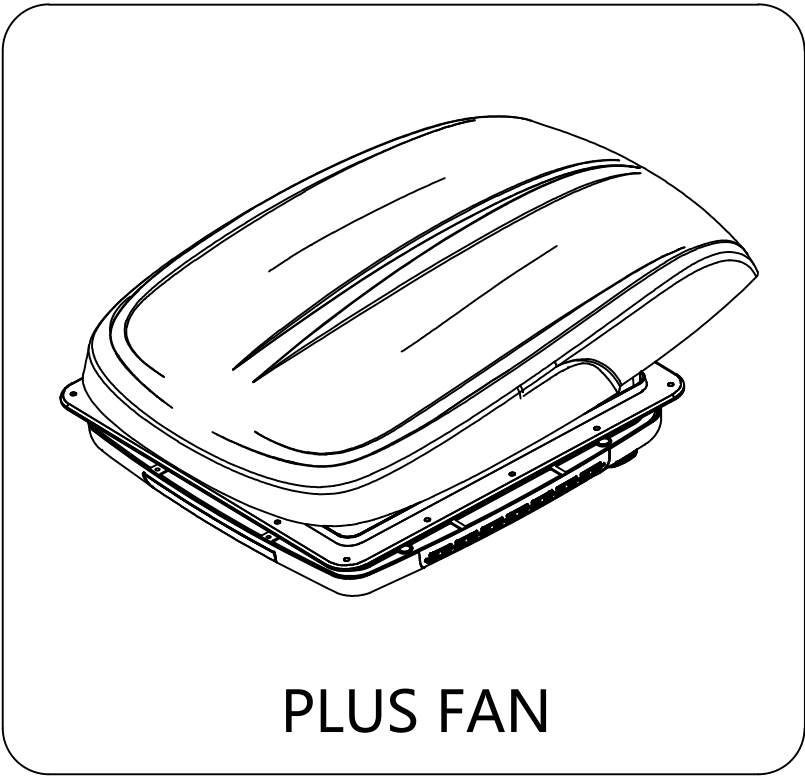
When the top cover is opened or closed manually, the top cover can be opened to the upper limit or closed to stop rotating the handle to prevent internal damage.

Overall Dimensions

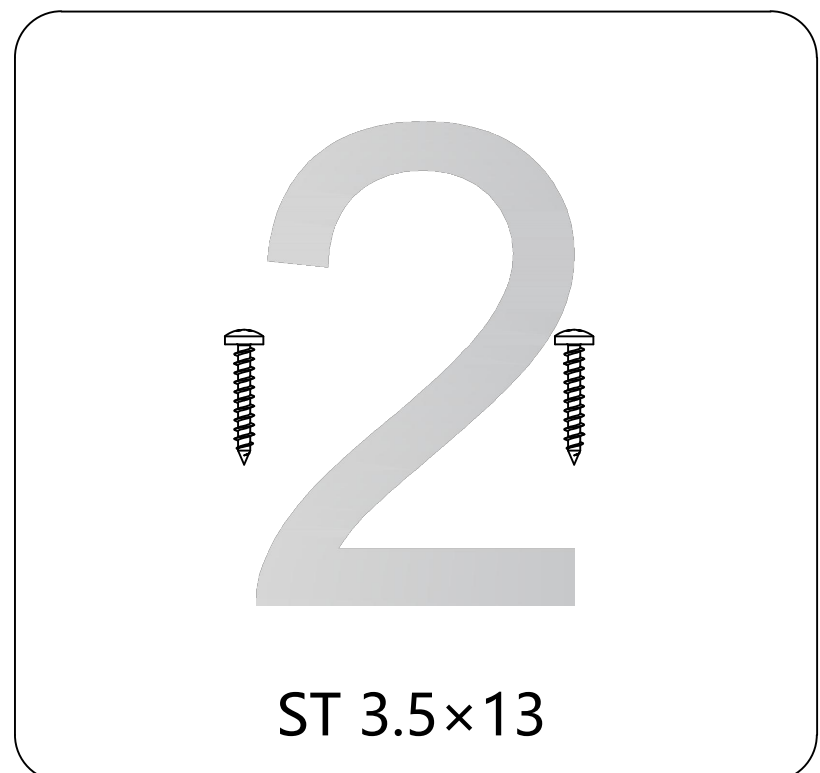
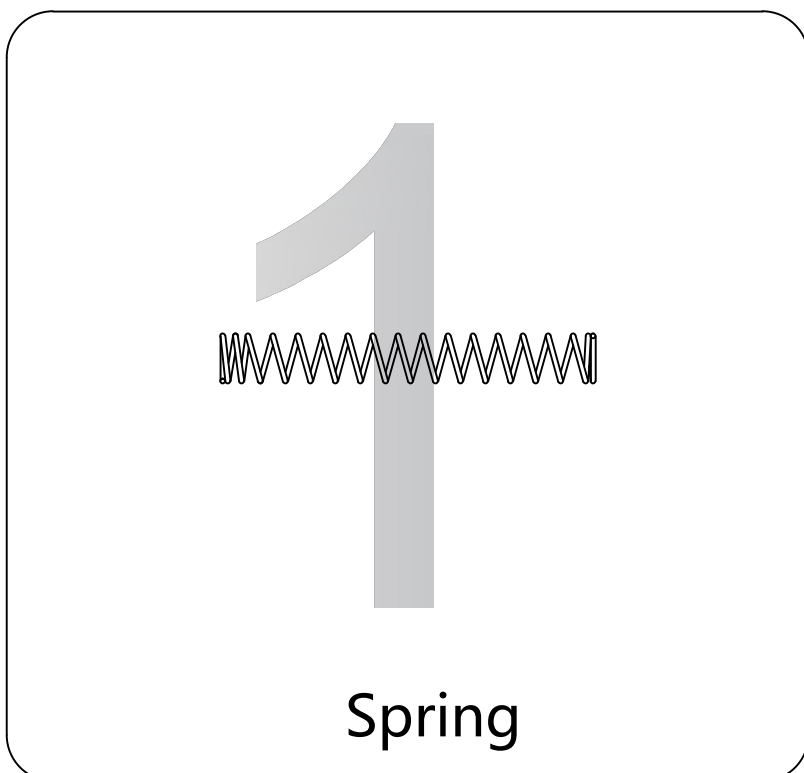
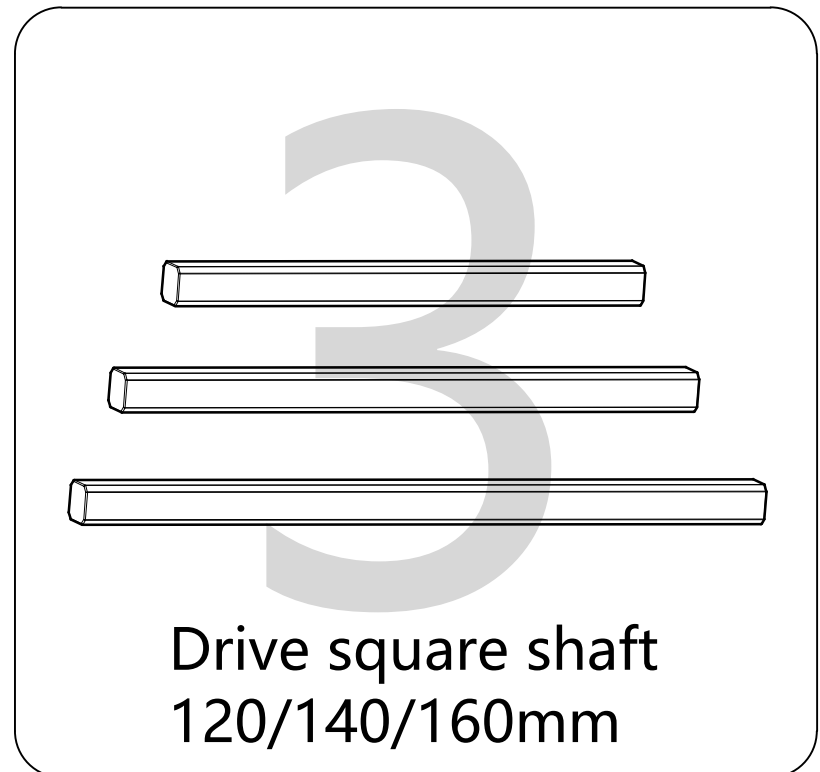
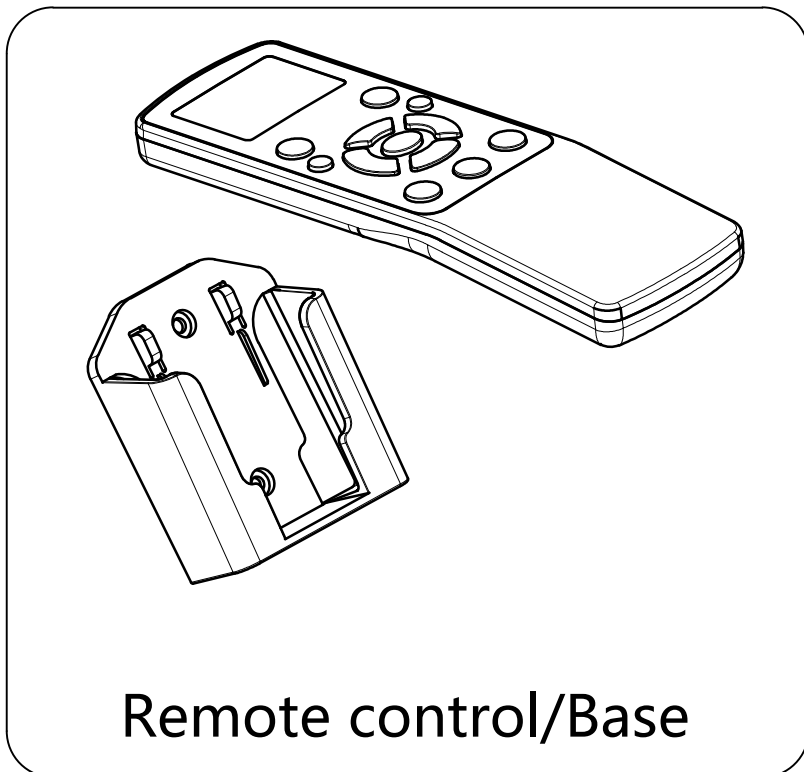
Unit: mm



Packing List



Packing List



ST 4.2×25 (for fixing the vehicle body fixing plate and the vehicle body)

ST 3.9×40 (for fixing the lower assembly of the interior trim frame to the vehicle body)

PT 4.0×12 (for fixing the upper assembly of the top cover and the fixing plate of the vehicle body)

ST 3.5×13 (for fixing the base of remote controller to the vehicle body)

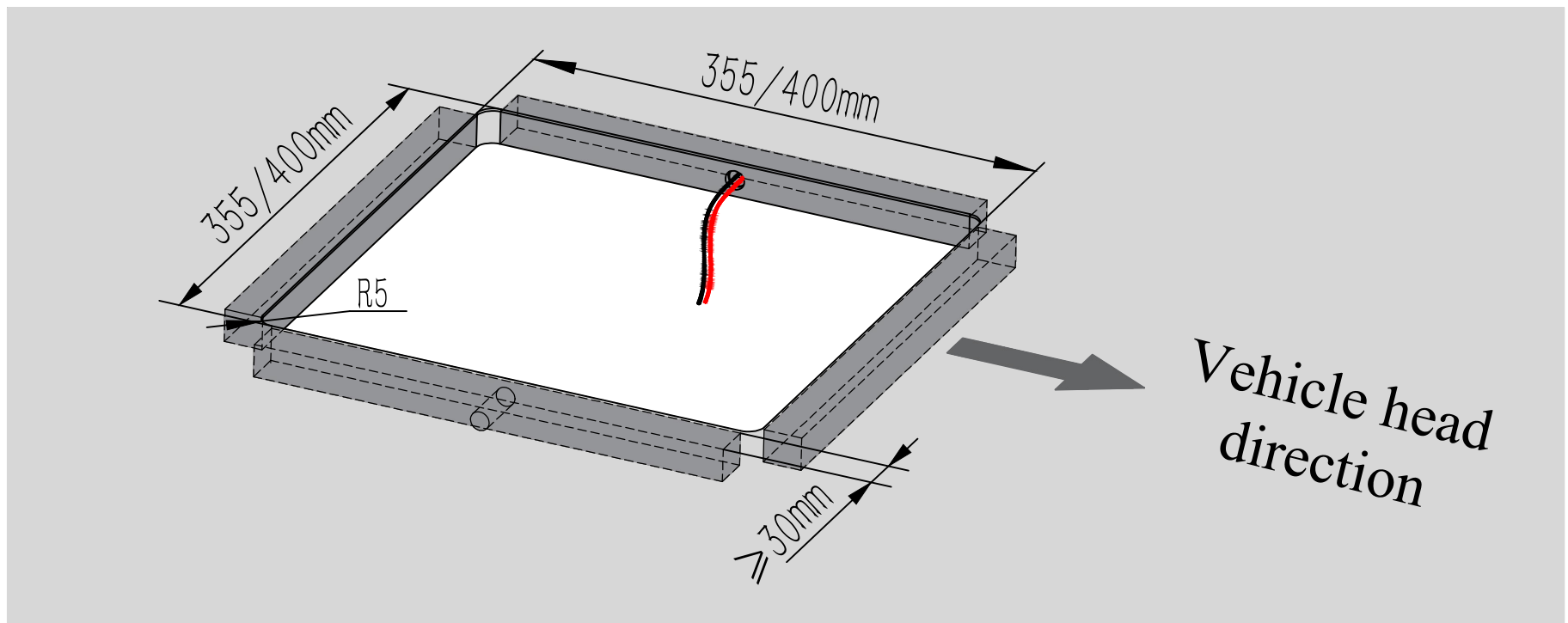
Drive square shaft: 120mm suitable wall thickness: 27-47mm

Drive square shaft: 140mm suitable wall thickness: 48-67mm

Drive square shaft: 160mm suitable wall thickness: 68-80mm

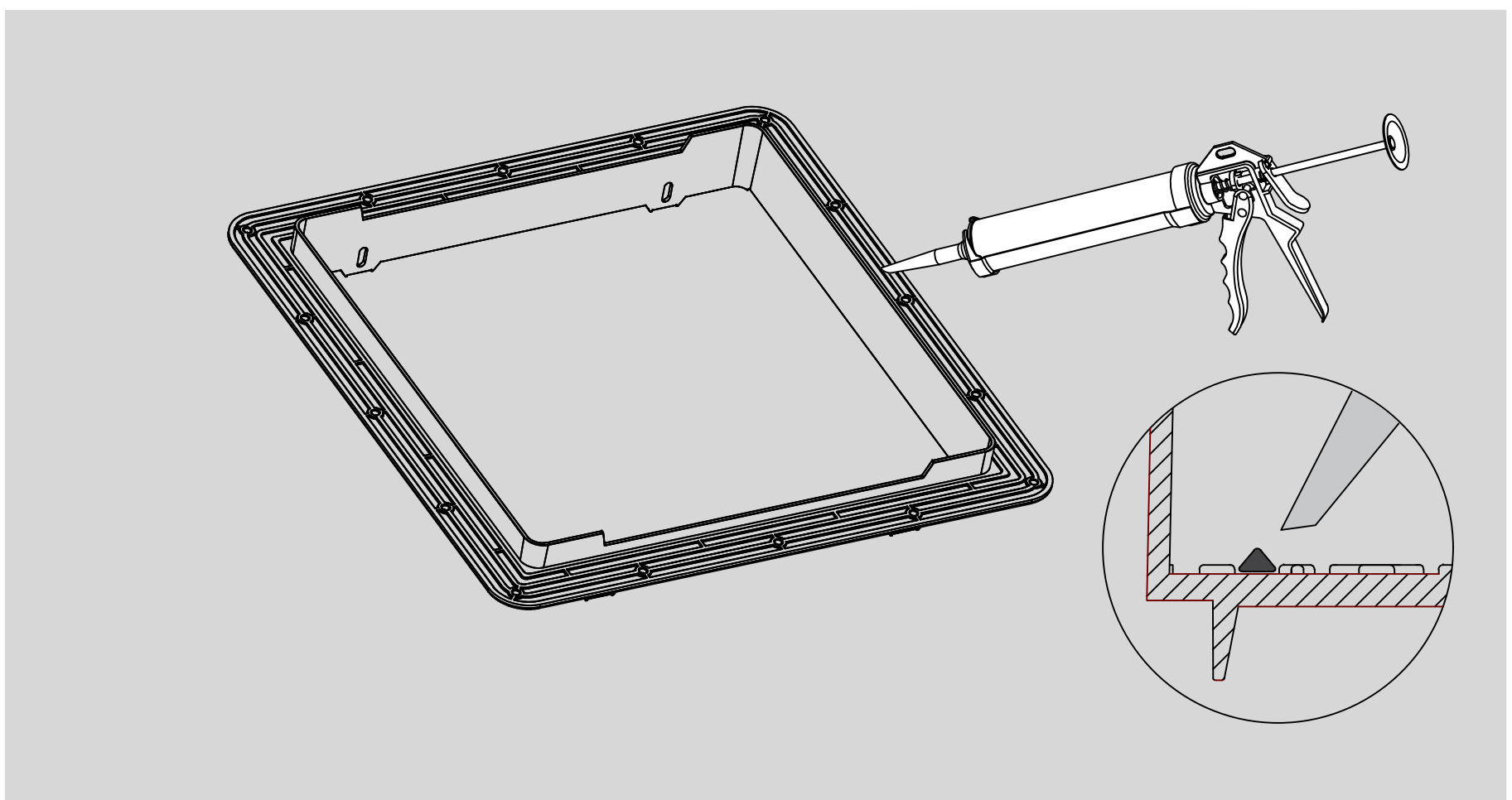
Mounting of PLUS FAN

1. Open mounting holes for the PLUS FAN on the roof (strong wall with a width $\geq 30\text{mm}$ is required around the hole to ensure that the self-tap screw can be firmly nailed into that wall) according to the hole size drawing on the [Mounting Dimensions] page. Power cord $\geq 50\text{mm}$ can be optionally reserved in the opening on the left or right side of the body.



The outlet on the left side of the vehicle body is taken as an example in this manual.

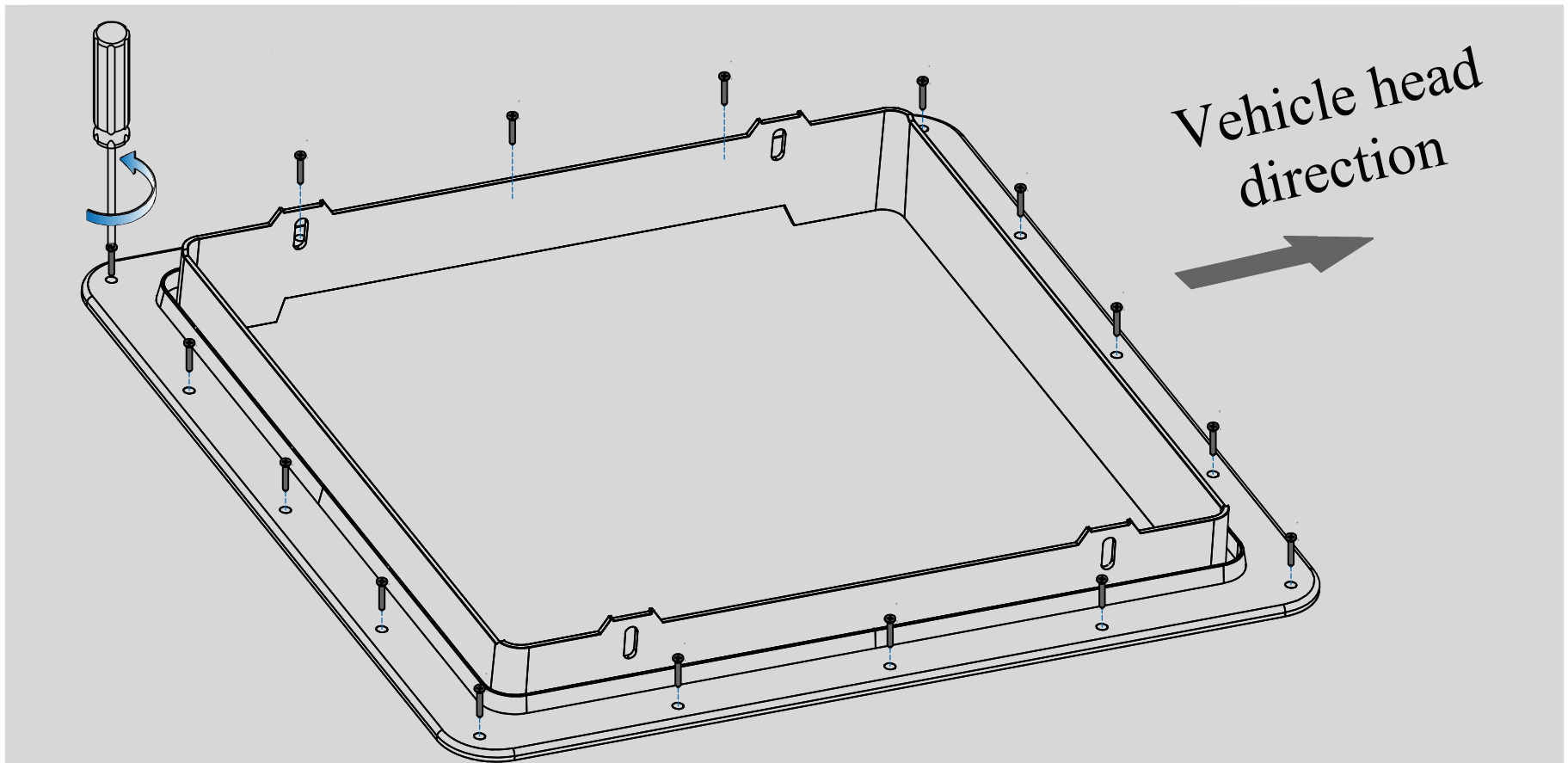
2. Take out the vehicle body fixing plate from the package, and inject sealant (MS type sealant recommended) into the rubber groove of the outer ring of the vehicle body fixing plate frame. The sealant should not be too much, and any excessive glue should be cleaned up with a soft scraper.



The amount of glue should be even. Do not apply too much glue.

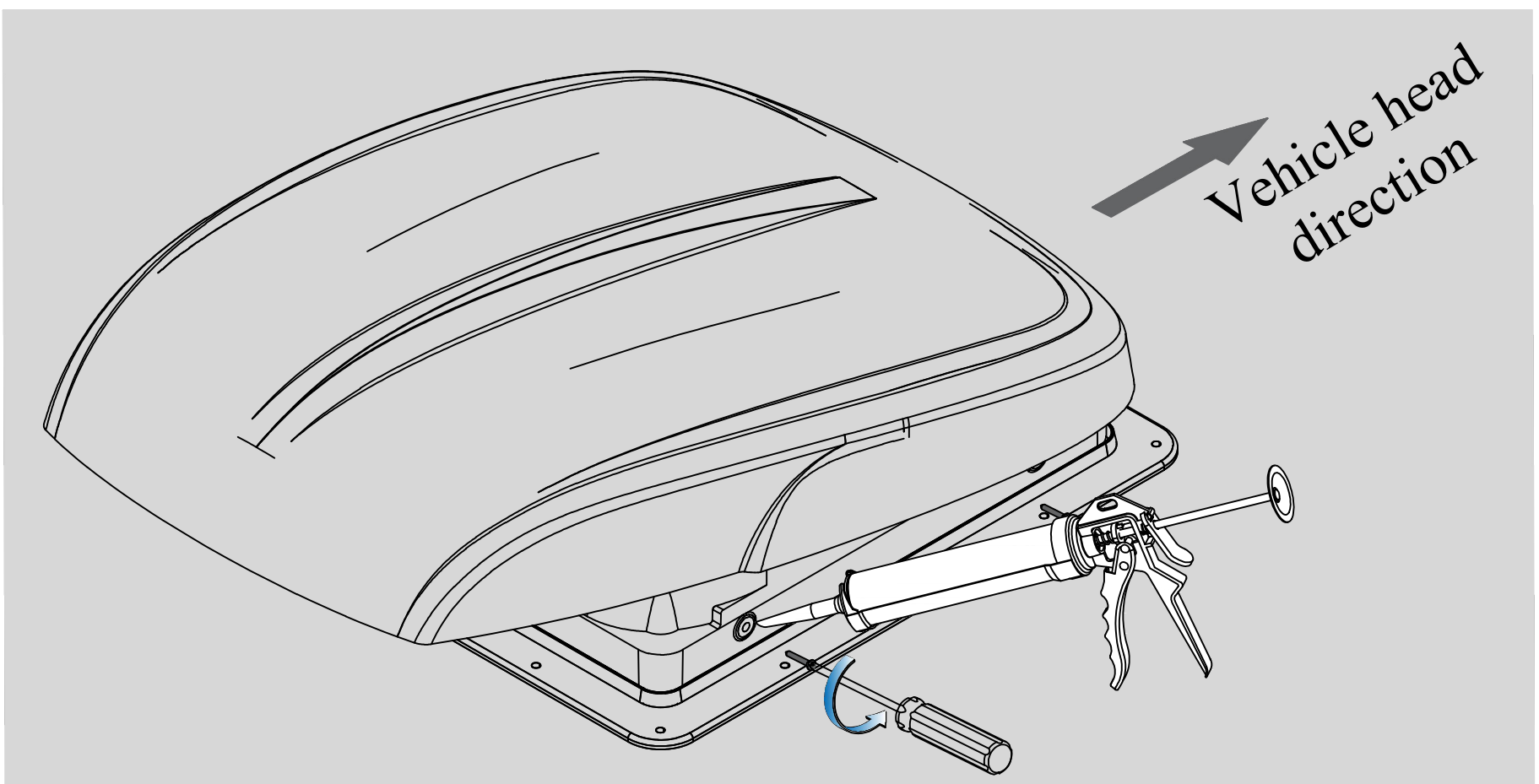
Mounting of PLUS FAN

3. Fix the body fixing plate on the wall of the motor home with ST4.2×25 cross pan-head screws (16 pcs) outside the body. After fixing the screws, remove excessive glue around the body fixing plate, if any.



The fixing screw must be fixed firmly.

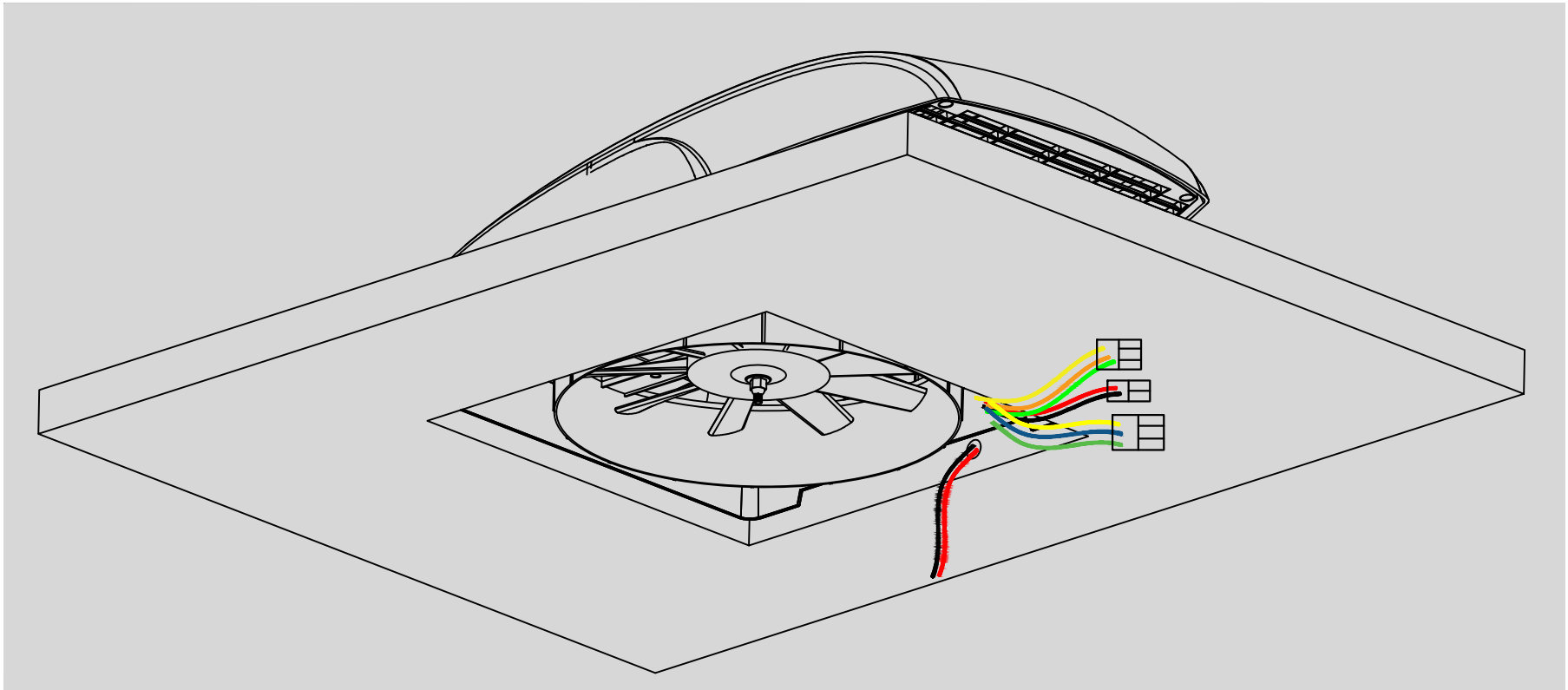
4. Remove the upper part of the PLUS FAN top cover, align it with the body fixing plate frame, and insert the upper part into the frame. After pressing, apply an appropriate amount of sealant (recommended to use MS type sealant) to (PT4.0 × 12 (4)), and then use screws to fix the upper part of the body fixing plate.



The side fixing screws must be fixed after tightening; otherwise there will be a gap between the adhesive tape between the upper assembly and the body fixing plate, probably causing water leakage. (Recommended screw torque: 0.7 N.m)

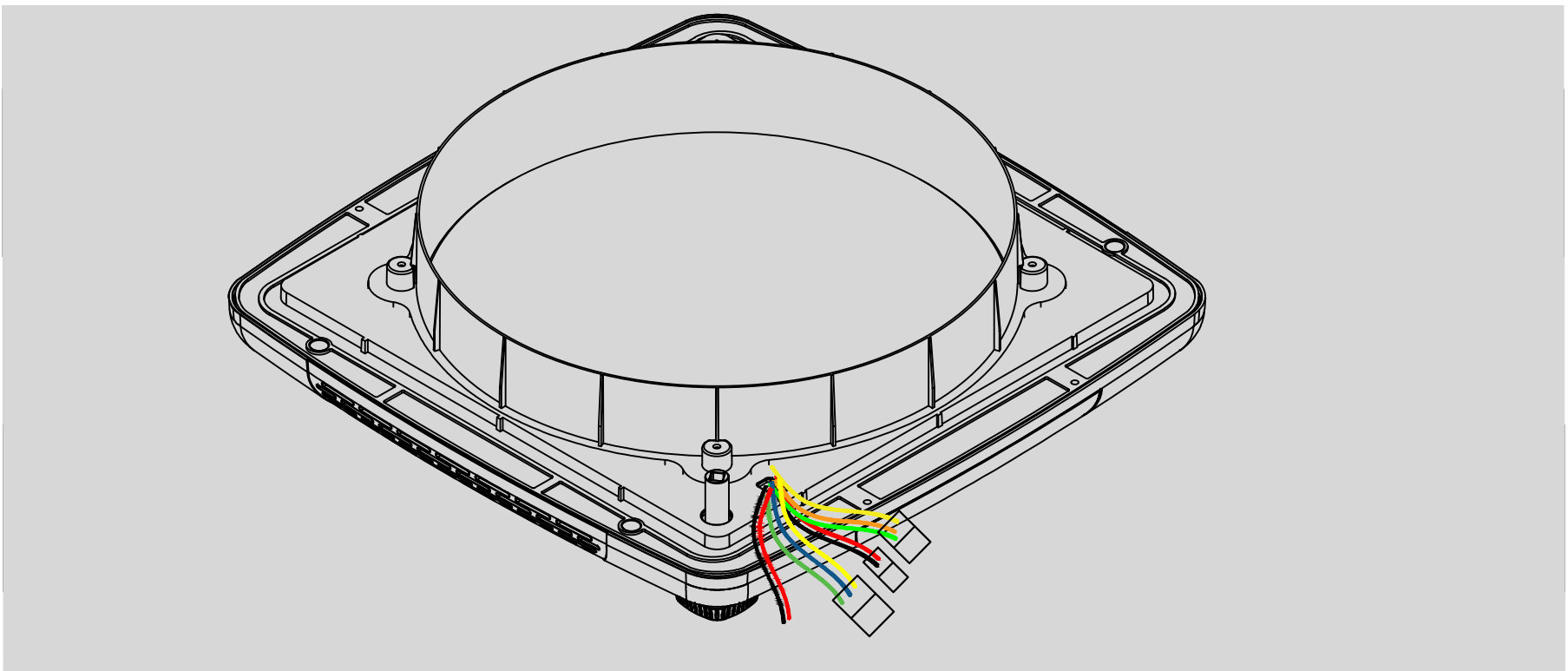
Mounting of PLUS Fan

5. Arrange the outgoing wires of the upper assembly of the top cover of PLUS FAN . There are altogether 3 kinds of wiring terminals (1#/2#/3#female ends).



Fan motor wire: (Green, blue and yellow) 3P male end 1#;
Lifting motor wire: (Red and black) 2P male terminal 2 #,
(green, orange and yellow) 3P male terminal 3 #;
Vehicle power cord: (Red and black) bare wire;

6. Arrange the outgoing wires of the lower assembly of the interior trim frame of PLUS FAN , and respectively use 3 kinds of wiring terminals (1#/2#/3#male ends).



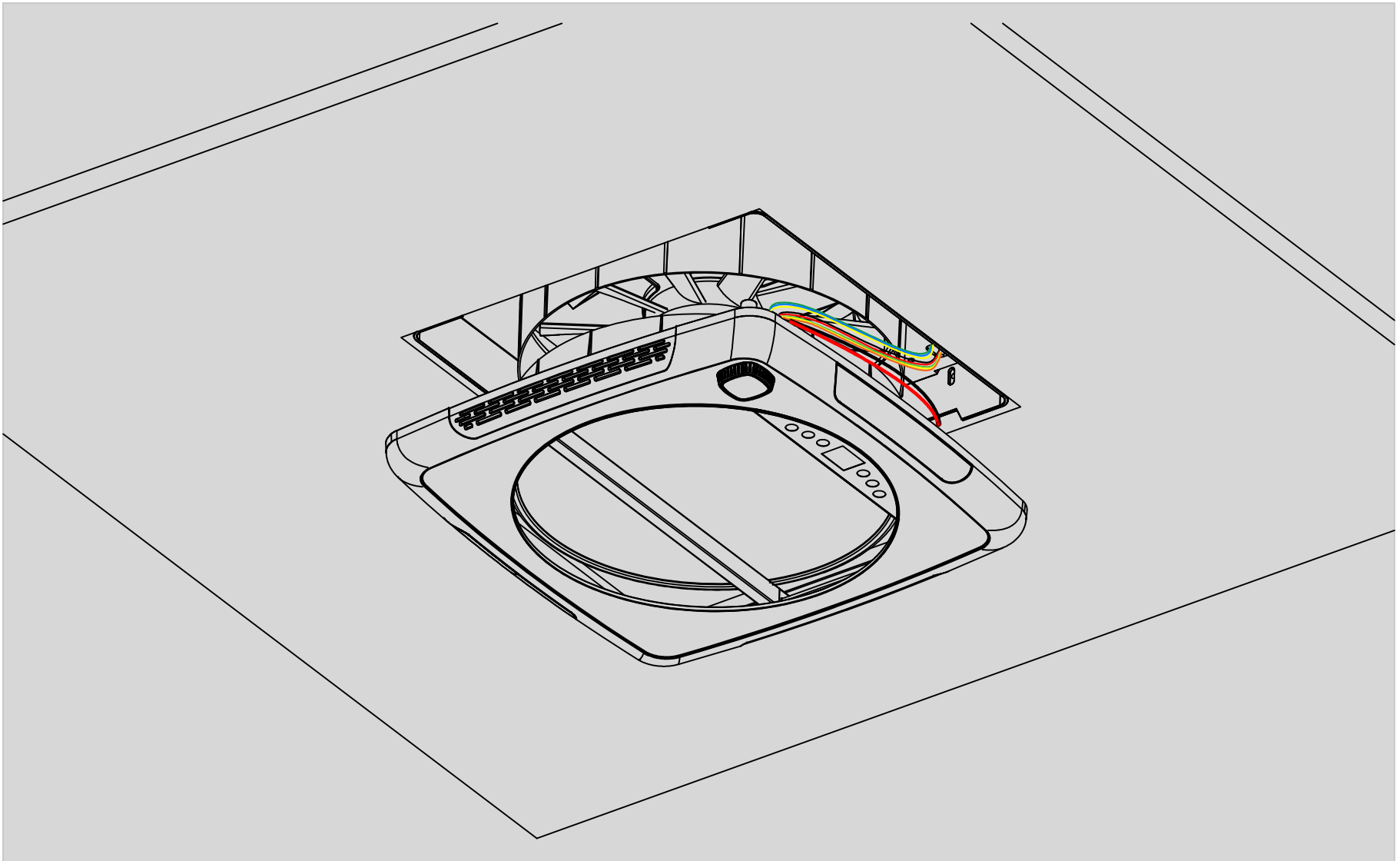
Fan motor wire: (Green, blue and yellow) 3P female end 1#;
Lifting motor wire: (Red and black) 2P female terminal 2#,
(green, orange and yellow) 3P female terminal 3#;
Input power wire of ventilating fan: (Red and black) bare wire;



The harness shall be clean, and free from damage and winding. The terminals shall be firmly connected and the pins shall be free from any damage.

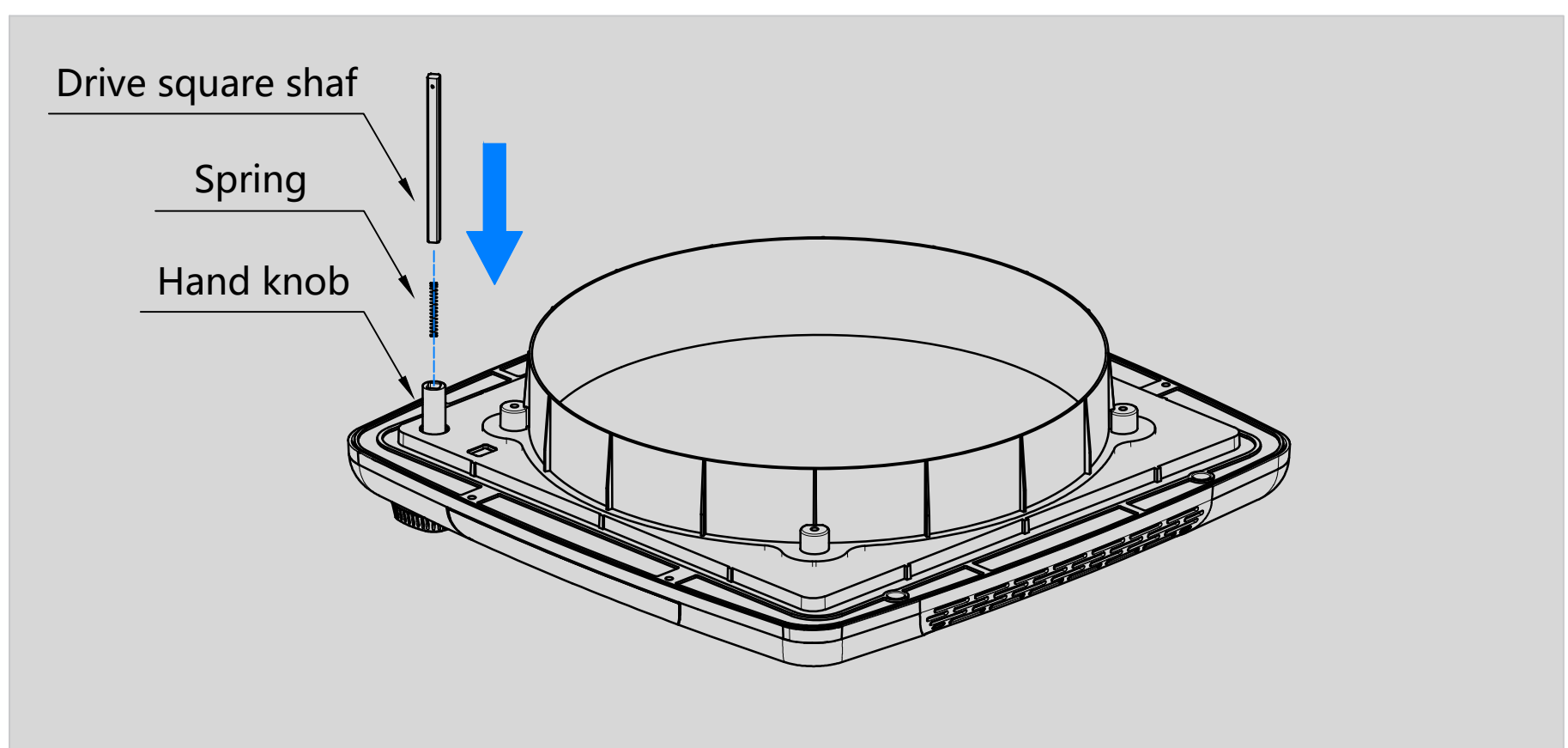
Mounting of PLUS FAN

7. Connect the harness terminals (3 types) of the upper and lower assemblies of PLUS FAN respectively, and connect the anode and cathode of the power cord.



The wiring harness shall be neat, and all terminals shall be connected firmly without any insufficient or omitted connection. The wiring harness shall be aligned in color, and fixed with cable ties after wiring harness arrangement.

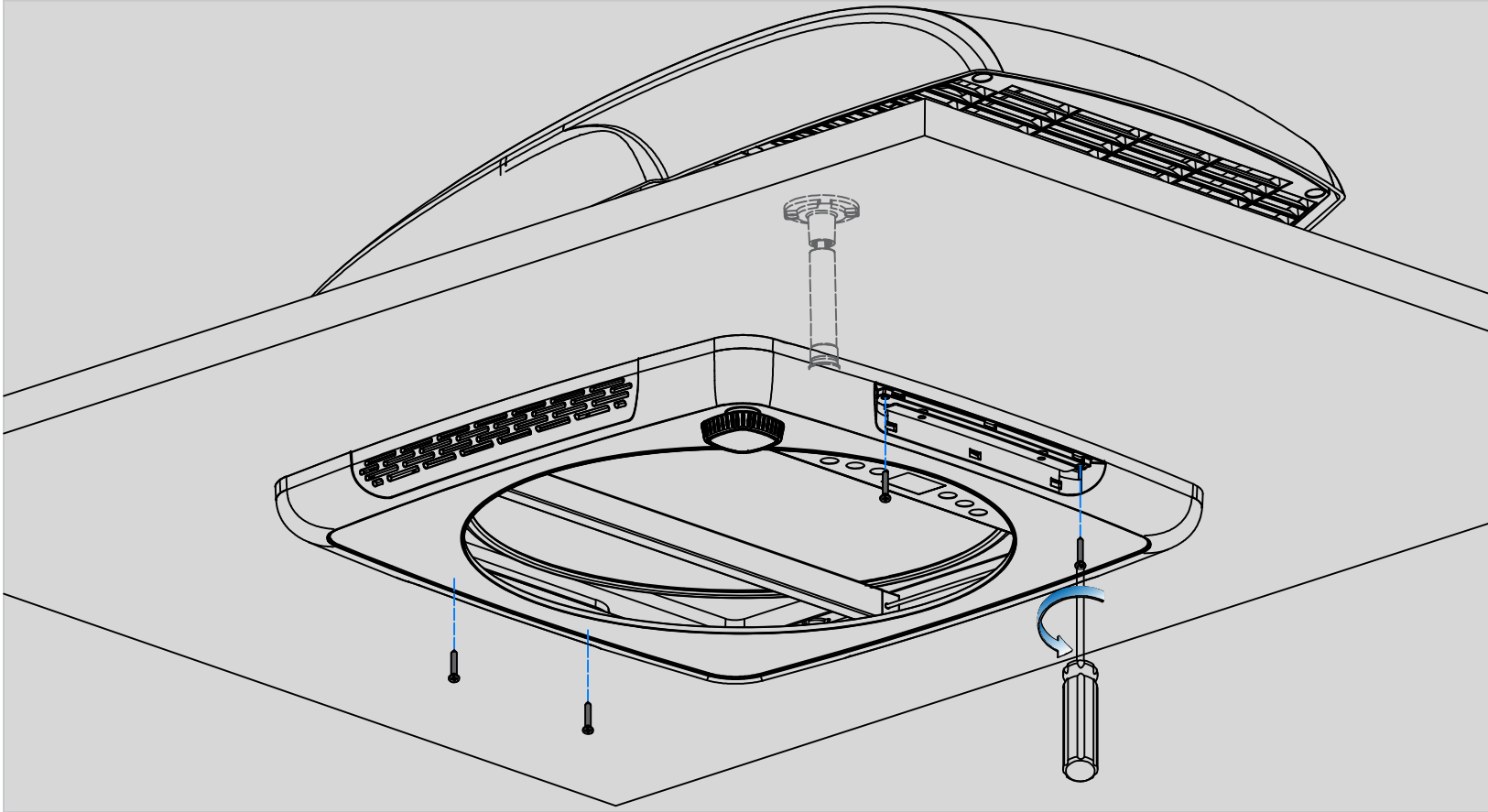
8. Place the spring and the transmission square shaft into the manual knob groove of the PLUS FAN in turn.



The spring shall be free from damage, the handle shall rotate flexibly without stagnation, and the square shaft shall be clean and free from oil stain and other sundries.

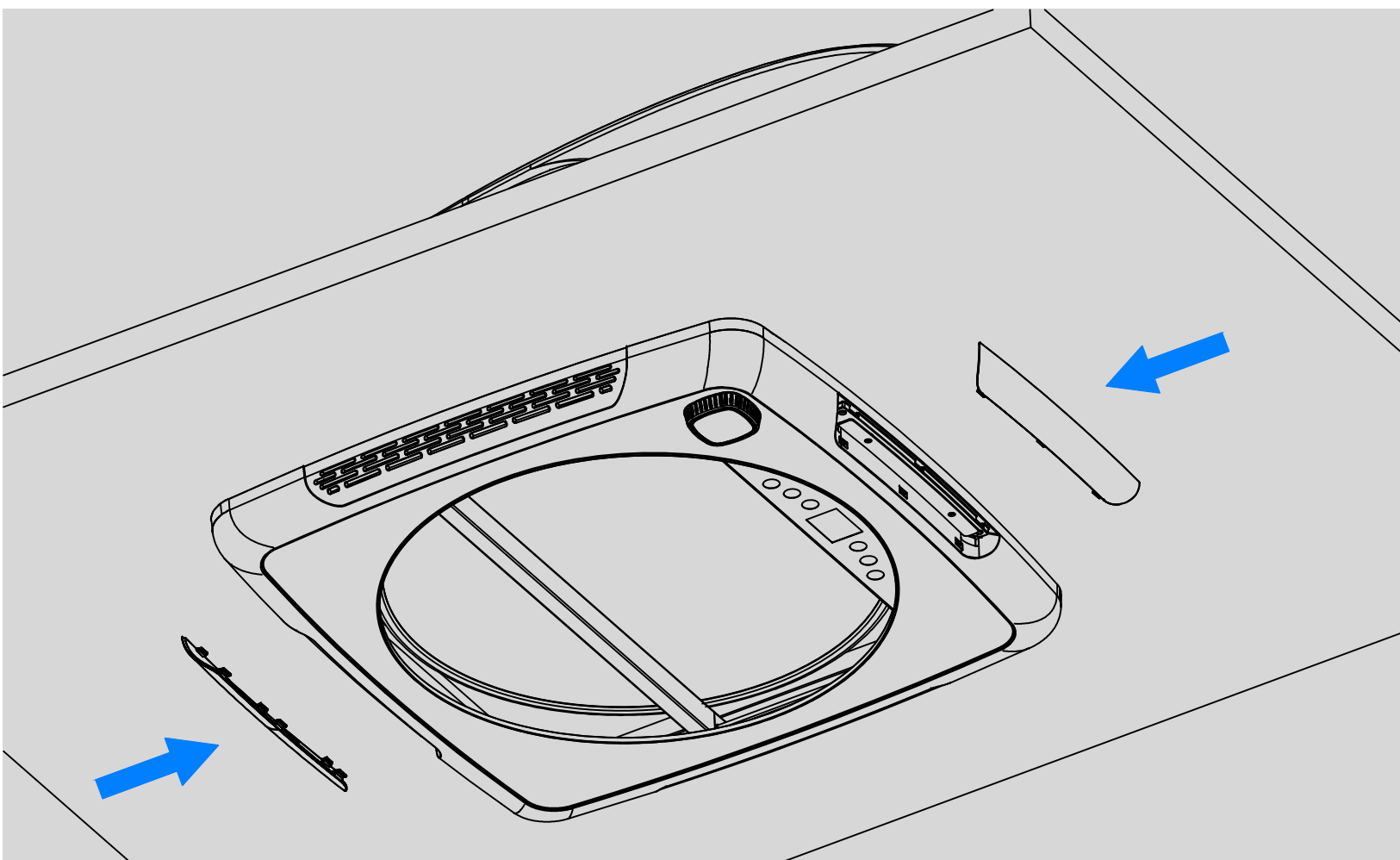
Mounting of PLUS FAN

9. After arranging the wire harness, align the square shaft with the corresponding position of the upper assembly of the top cover, insert the lower assembly of the interior trim frame of the PLUS FAN, and screw the ST3.9×40 cross pan-head screws (4 pcs) into the corresponding holes in turn.



Harness shall be neat and all terminals shall be connected firmly without insufficient or omitted connection. Screws shall be fixed firmly.

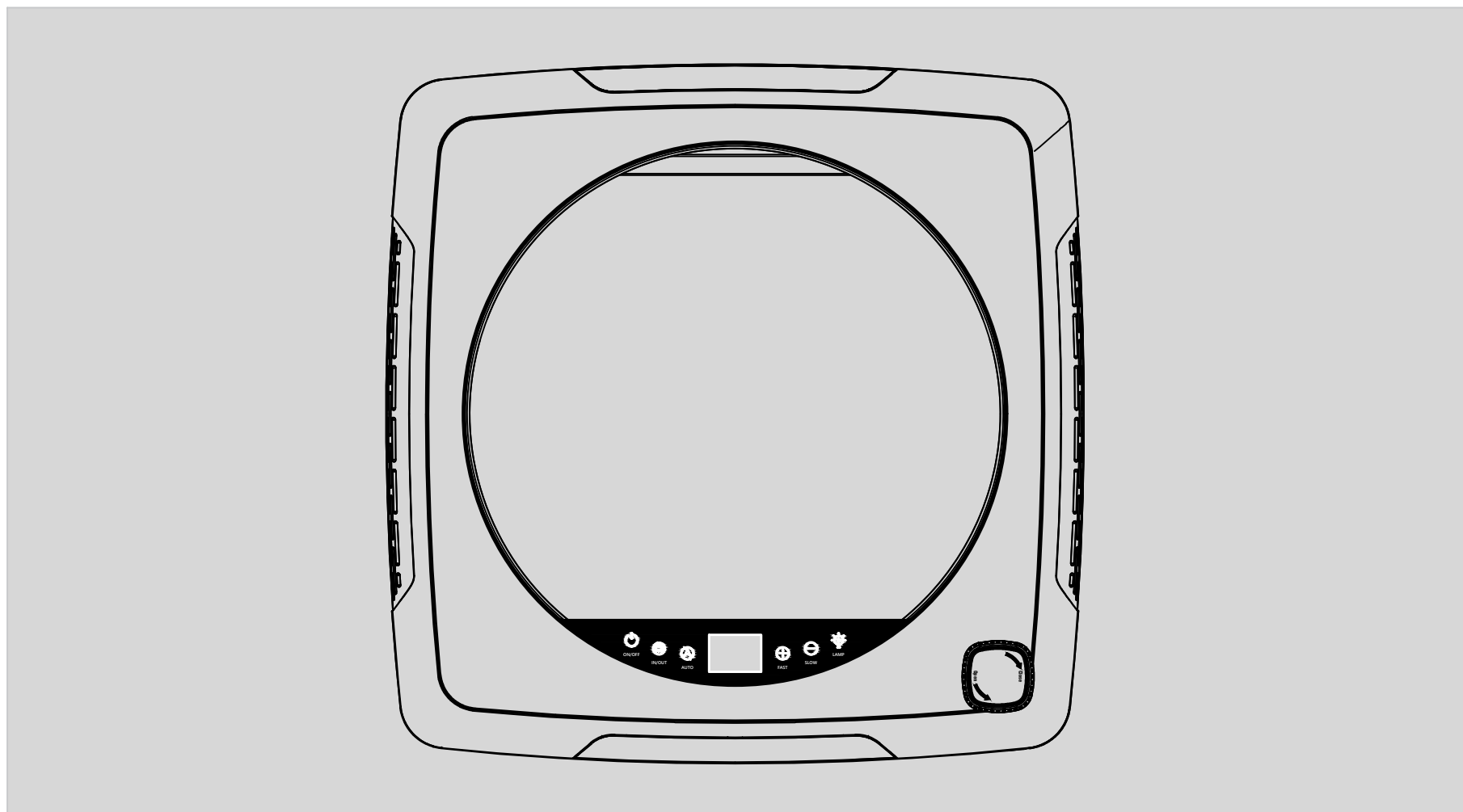
10. Insert the lamp covers laterally into the corresponding slots in the lower assembly of the PLUS FAN trim frame.



Upon inserting, the lampshade will emit three clicks, indicating that the lampshade has been clamped in place.

Mounting of PLUS FAN

11. After completing the above steps, clean the debris and dust on the PLUS FAN casing. Press the power button on the control panel to start using the device.

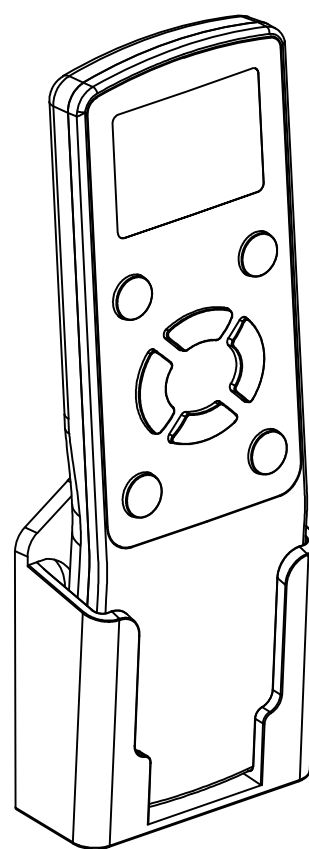
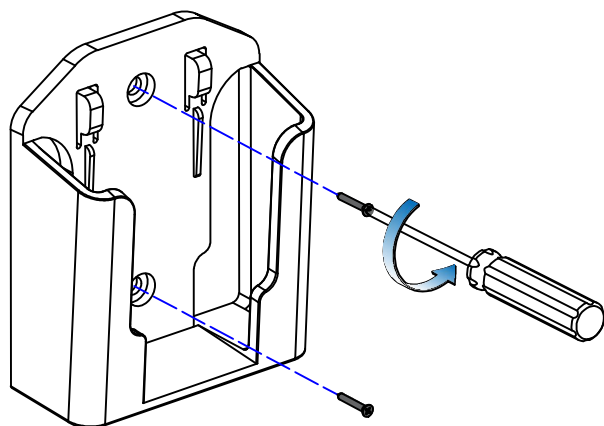


12. After powering on the device for the very first time, try each button on the control panel three times to check the functions of button backlight, lighting lamp, fan acceleration, fan deceleration, open top cover, close top cover, etc.

13. Take the remote control base and 2 ST3.5×13 cross pan-head screws, tear off the double-sided adhesive tape on the back of the remote control base, stick it in the predetermined position and fix it with screws.

Mount a total of 2 AA batteries in the remote control, which can be used after the code is successfully matched.

Please insert the remote control into the base of the remote control when it is not used.



The code matching must be completed within 20 s after the ventilation fan is powered on (otherwise, cut off the power supply and re-match).