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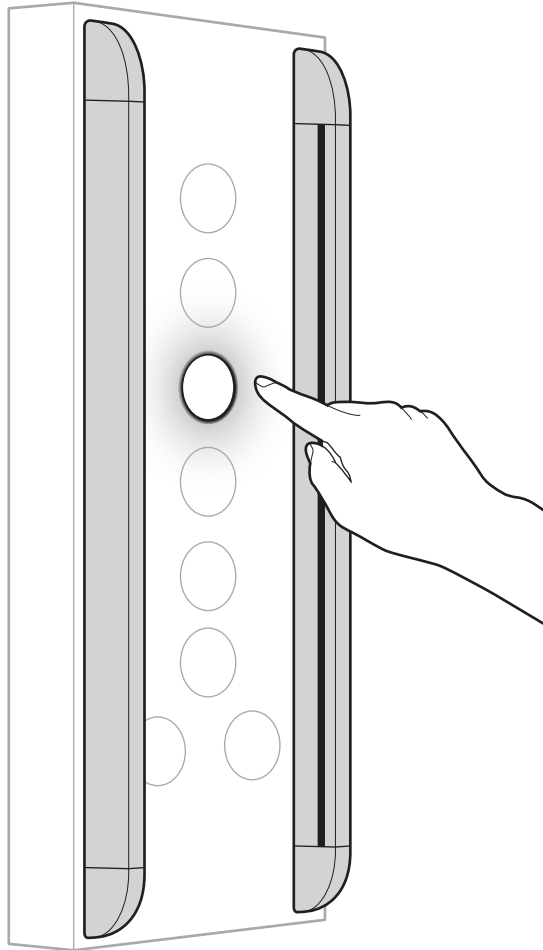
Contact Information

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Gyeonggi-do 10442, Republic of Korea

Certifications





Airtact

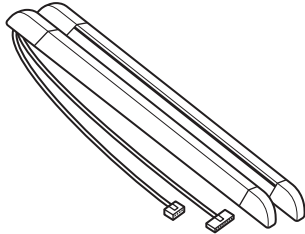
Installation Manual

Table of Contents

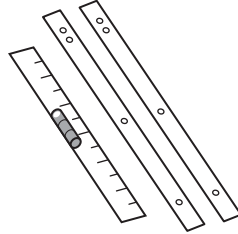
Product	3
Components	3
Specification	4
Information Before Installation	5
COP (Control Operation Panel)	6
Cable	7
Installation Guide	8
Required Tools	8
Airtact Jig Installation	9
Drilling	10
Sensor Mounting	10
Y Cable Connection	11
Power Connection	12

Product

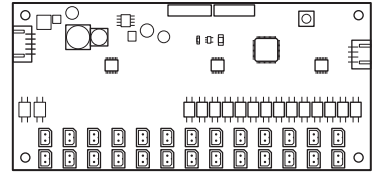
Components



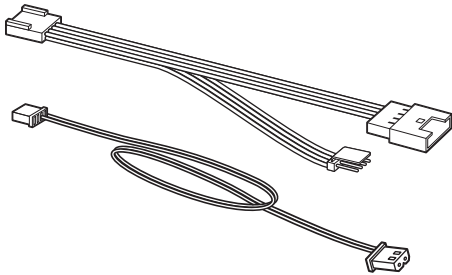
Airtact Sensors x 2



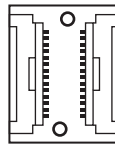
Jig set



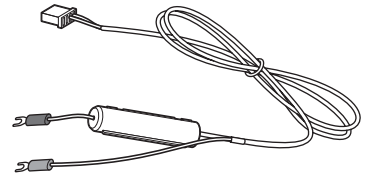
Relay Board



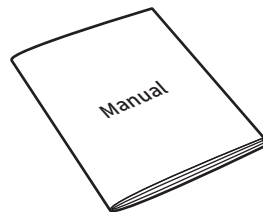
Y Cables + DIY Cables



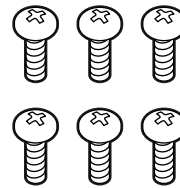
Gender Board



Power Cable



Installation Manual



Screws x 6



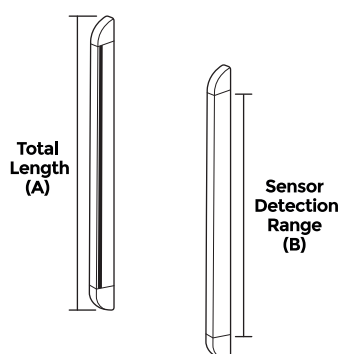
WARNING

When using this unit, you must follow the instructions.
Please read this manual before operating installation in order to ensure the safety and prevent malfunction.

Product

Specification

LIST	DESCRIPTION
Sensor Technology	AirTact Infrared technology
Object Detection Method	10mm Resolution Finger, gloved hand or Any other pointer
Operation Voltage	DC 8V~32V
Power Consumption	Max 2.4W
Interface Specification	Elevator key Panel controller interface specification CAN Version - Hyundai Model (ST5, ST7, WB) Others - Key panel map configuration mapping interface with relay board
Temperature	Operating 0 °C to 55 °C / Storage -25 °C to 85 °C
Humidity	Operating 10 ~ 90 % (non-condensing) / Storage 10 ~ 90 % (non-condensing)
Relative Humidity	Operating 40 °C at 90% RH (non-condensing)
Light Test	Incandescent lamp (220V, 150W) / Operating distance 350mm over
ESD	EN61000-4-2:1995+A:1998+A2:2000(Test method) Air discharge $\pm 8\text{kV}$, Contact discharge $\pm 4\text{kV}$
Detection Method	Pulsed Infrared rays / Software based ambient light filter



Model	Total Length(A)	Sensor Detection Range(B)
ATSO-436	436.00 mm	316.0 mm
ATSO-611	611.6 mm	491.6 mm
ATSO-744	744.4 mm	624.4 mm
ATSO-818	818.2 mm	698.2 mm
ATSO-889	889.0 mm	769.0 mm



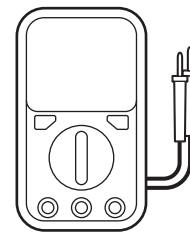
Caution

Check the button panel and Detection Range Before your installation.

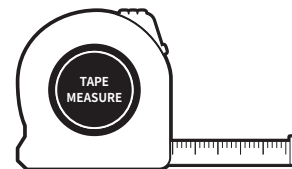
Information Before Installation



Open the COP panel.



Electric meter



Ruler



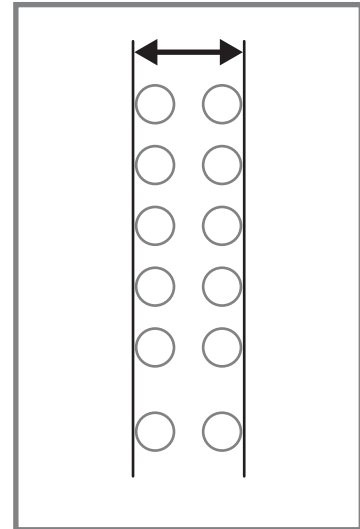
Caution

- The sensors width should not exceed 300mm.
- Make sure to install sensors horizontally and symmetrically to each other.
- If possible, place the buttons in the middle of the sensors.
- All the buttons should be inside of the Sensor detection range (Blind spot upper/lower -30mm recognized below).
- Turn off the power of the OPB while installation.
- Choose the right Airtact size for the elevator button layout.
- Direct sunlight may cause malfunctions. Make sure the sensor is not directly exposed to sunlight.

Information Before Installation (COP)

Step 1. Left-Right (Width)

Check the left-right installation width.

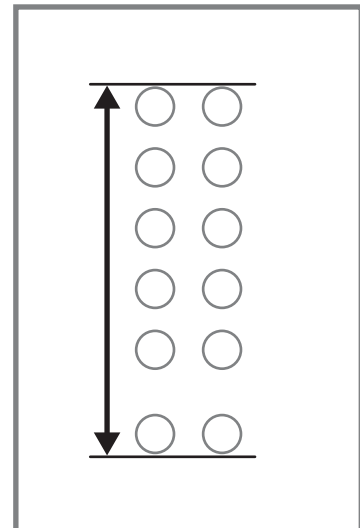


Step 2. Top – Bottom (Length)

Check the total length and choose sensor size.
ATSO(436,611,744,818,889)

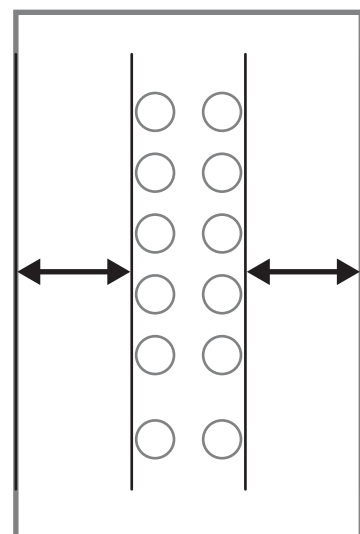


Check the AirTact sensor size and detection range.(Refer to the page 3)



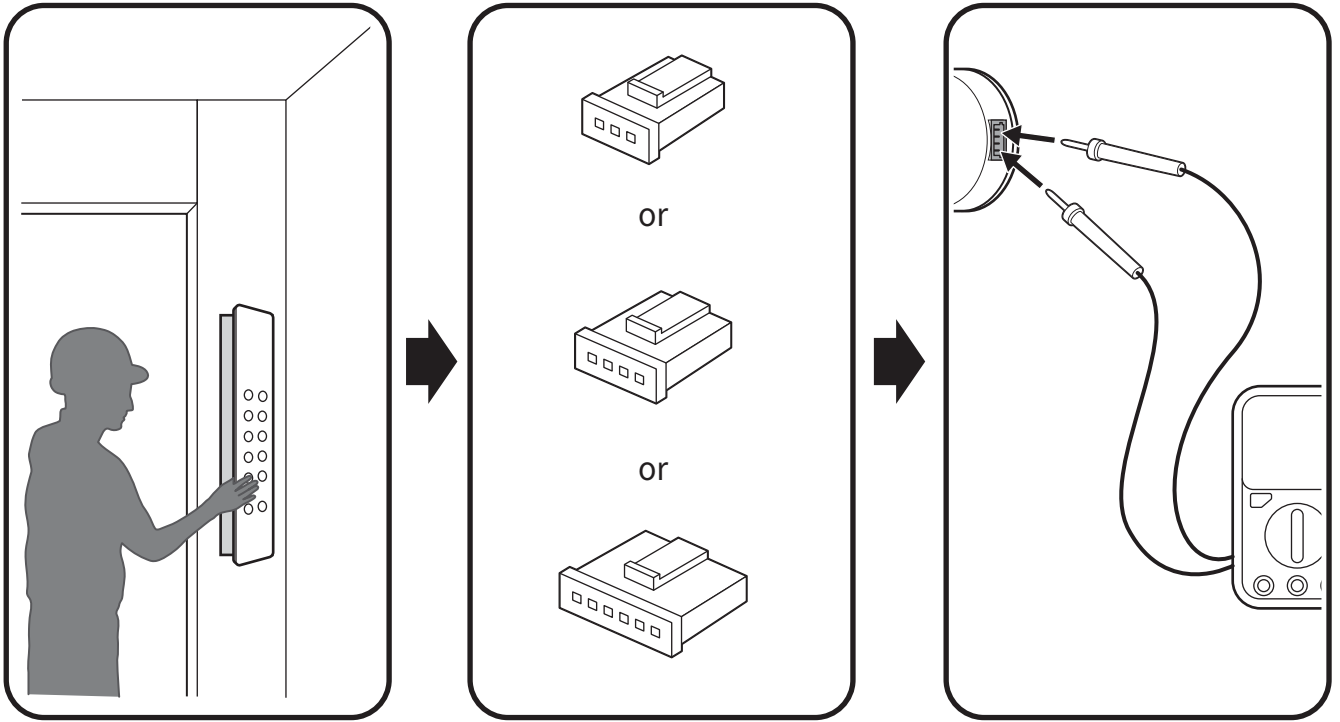
Step 3. Button Outer to COP

Check the COP whether it has enough space for installation.
(Each side should have the same gap)

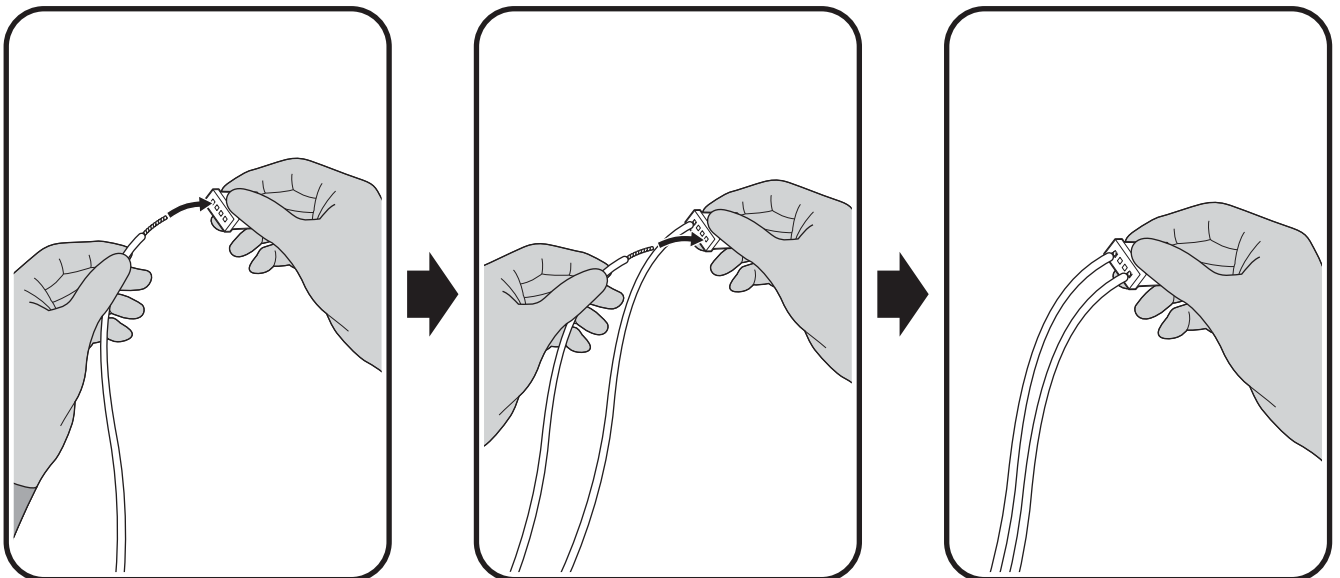


Information Before Installation (Cable)

Step 4. Check Connector Type / Wiring Diagram



DIY CABLE Assembling

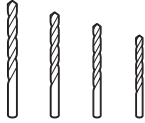
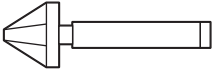
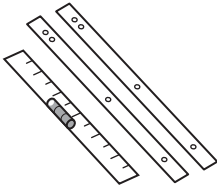
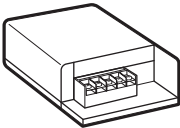


Caution

Each button can have different Pin Map.

Installation Guide

Required Tools

No.	Items	Image	Recommend	Info.
1	Drill		Any Maker	Need to adjust drill torque when drilling holes 3, 5-1200 RPM or less/ 9 600 RPM or less
2	Drill bit		- YG1 Cobalt Drill bit - HSS-C08	Use SUS blade (3, 5, 9)
3	Countersink blade		SMATO 3 blades	Use over 15 for SUS. For removing burrs around holes after drilling.
4	Sensor Installation Guide JIG		SMARTSTORE	Provided by the sensor model (SMARTSTORE)
5	Automatic center punch		Any Maker	Automatic
6	SMPS		Any Maker	24V output
6	Tape		Any Maker	

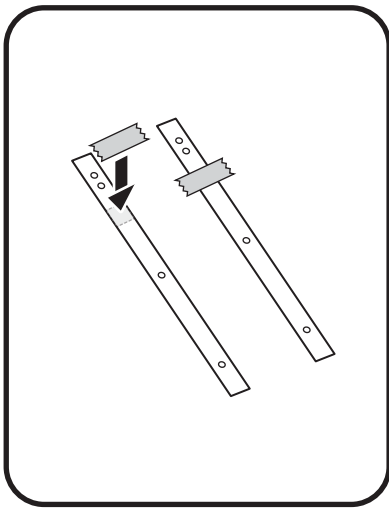


WARNING

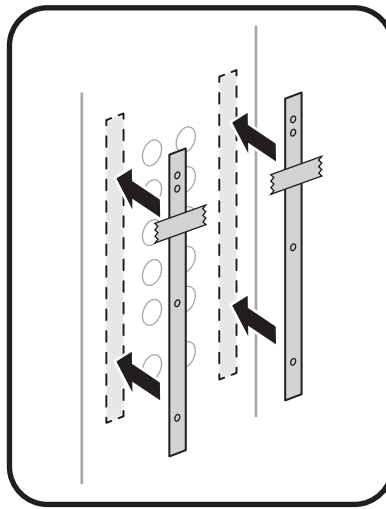
Failure to obey installation manual will result in serious problems to the elevator. Always follow the instructions to reduce the risk.

Installation Guide

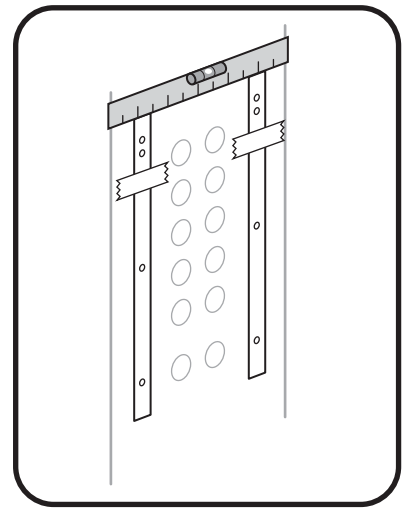
Airtact Jig Installation



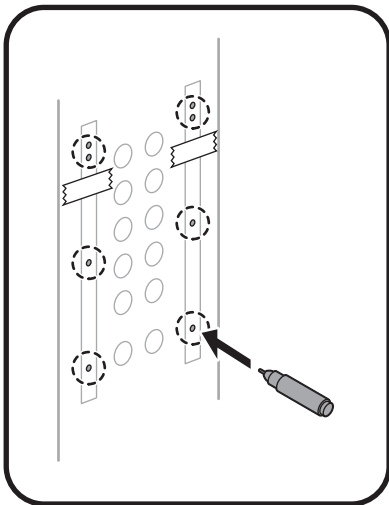
1. Use your own Tapes to attach jig.



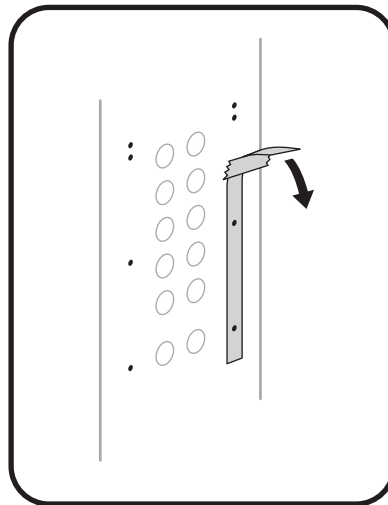
2. Attach the guide Jigs on the COP.



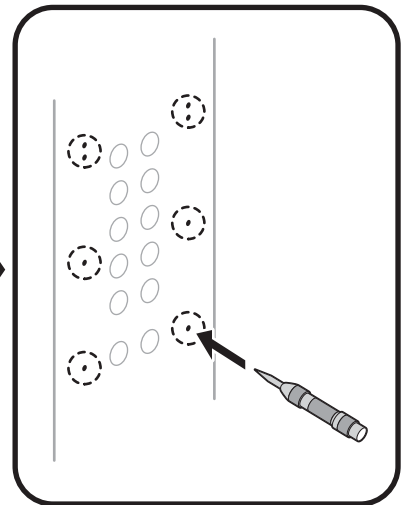
3. Check the bubble leveler enclosed.



4. Mark 8 holes with a permanent pen.



5. Detach the guide Jigs.



6. Use Center punch if it is required.

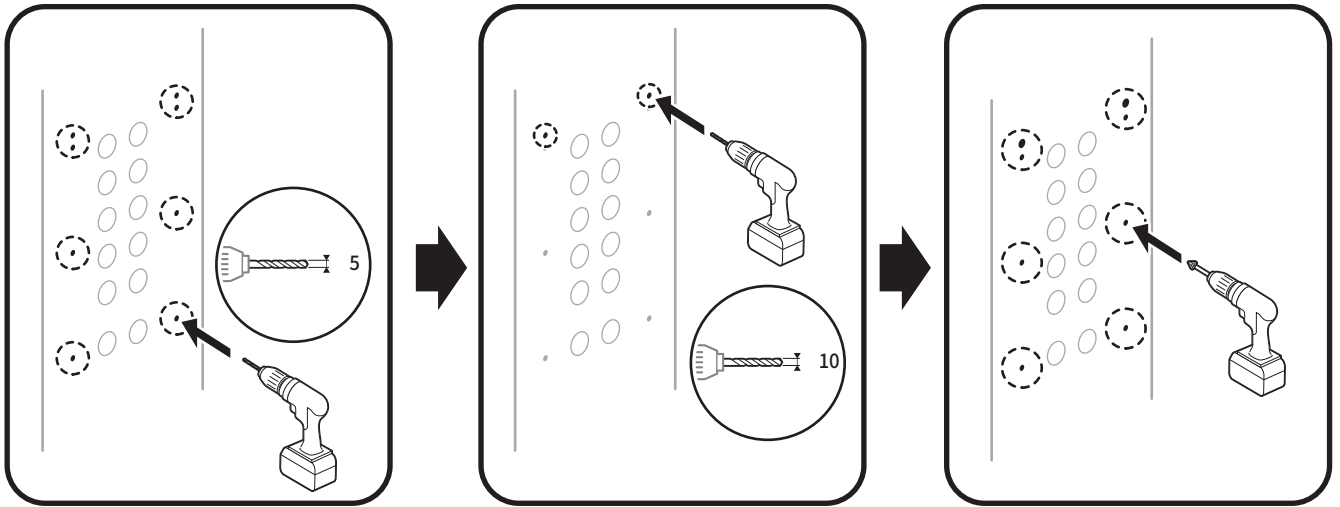


Caution

- When drilling, check for obstructions (OPB cable, board, etc.)
- Careful with OPB door hinge interference, when drilling.
- Turn off the power of the OPB while installation.

Installation Guide

Drilling



1. Drill all holes with 5 bit first.

2. Drill cable holes with 9~ 10 bit.

3. After Drilling, use counter sink blade to prevent cable damages.



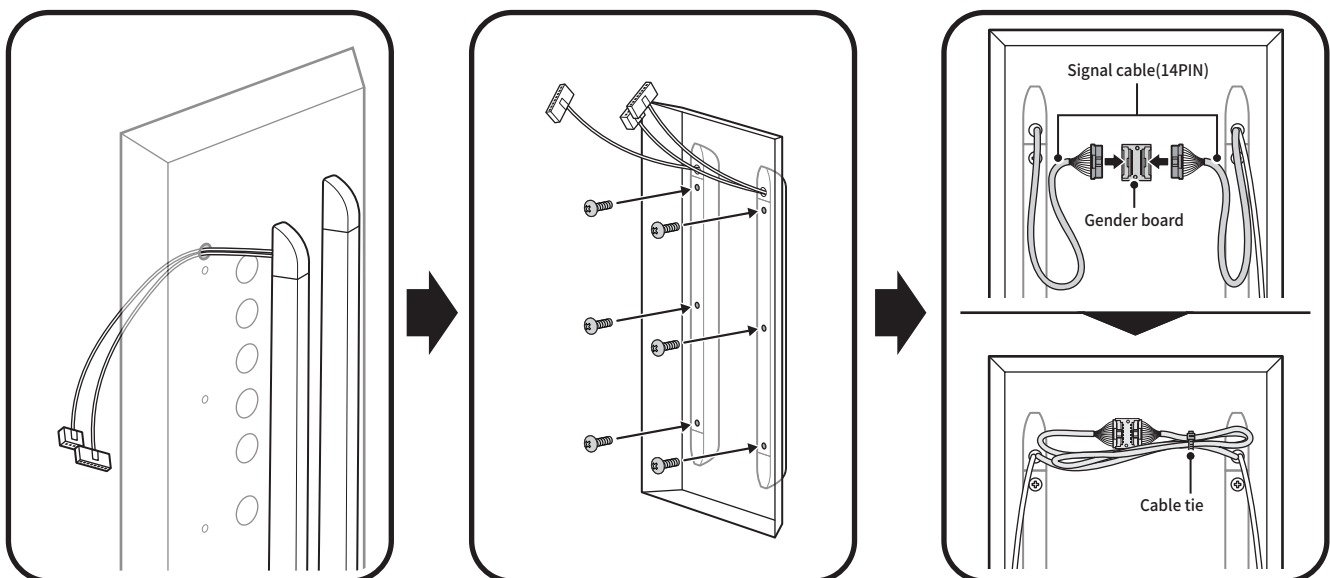
Caution

Proper rpm of drilling process.

Ø 5 : 500rpm ~ 1000rpm

Ø 10 : 600rpm

Sensor Mounting



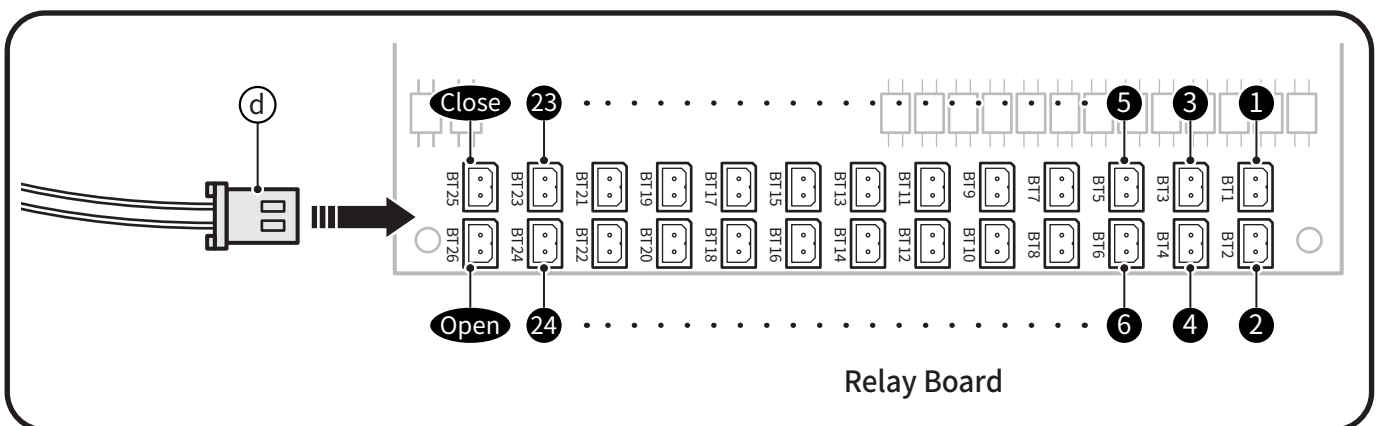
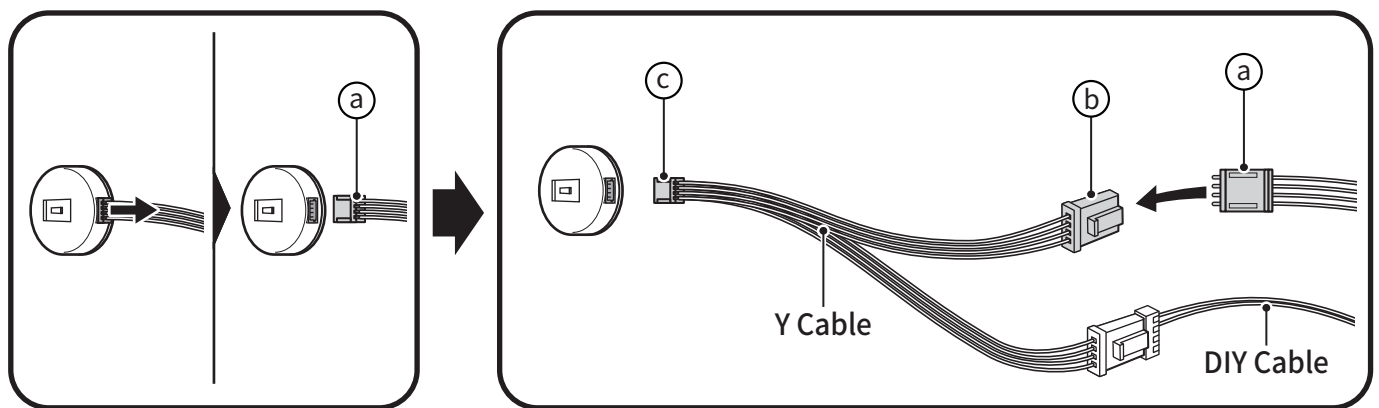
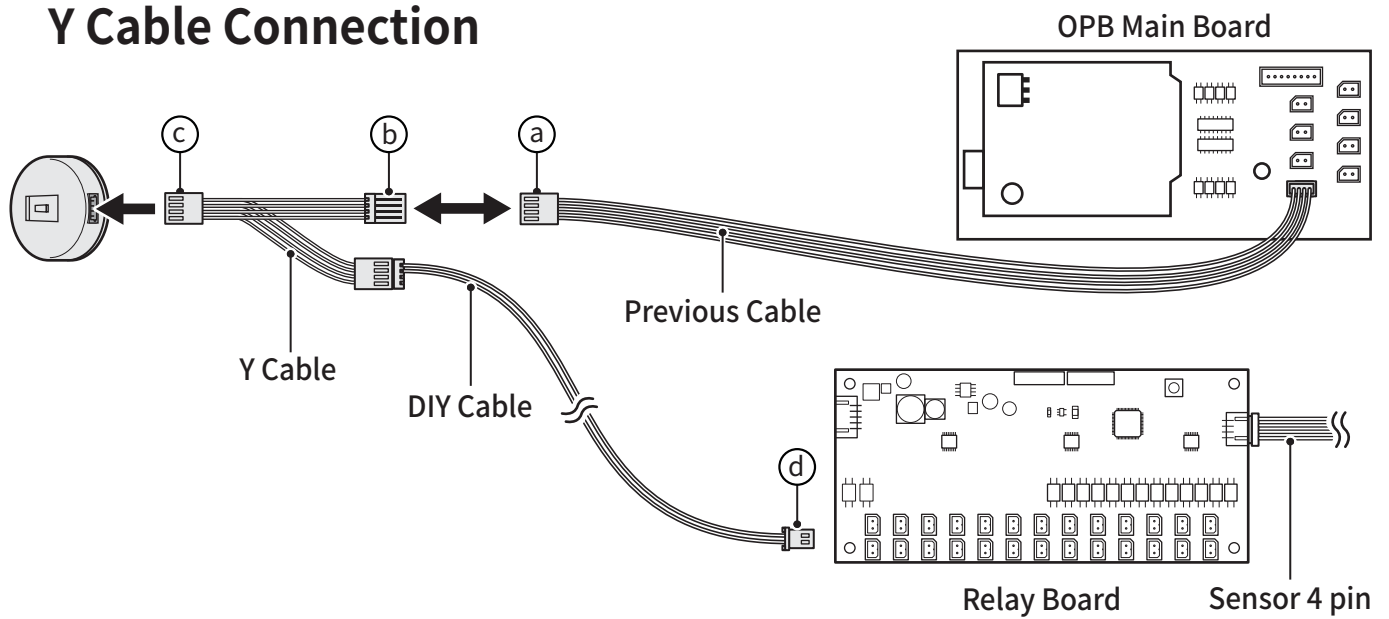
1. Insert Cables into the Left/right top holes of the COP.

2. Screw 6 drilled points
(Choose proper screw length).

3. Connect 2 Signal cables
(14PIN) to the Gender Board.

Installation Guide

Y Cable Connection

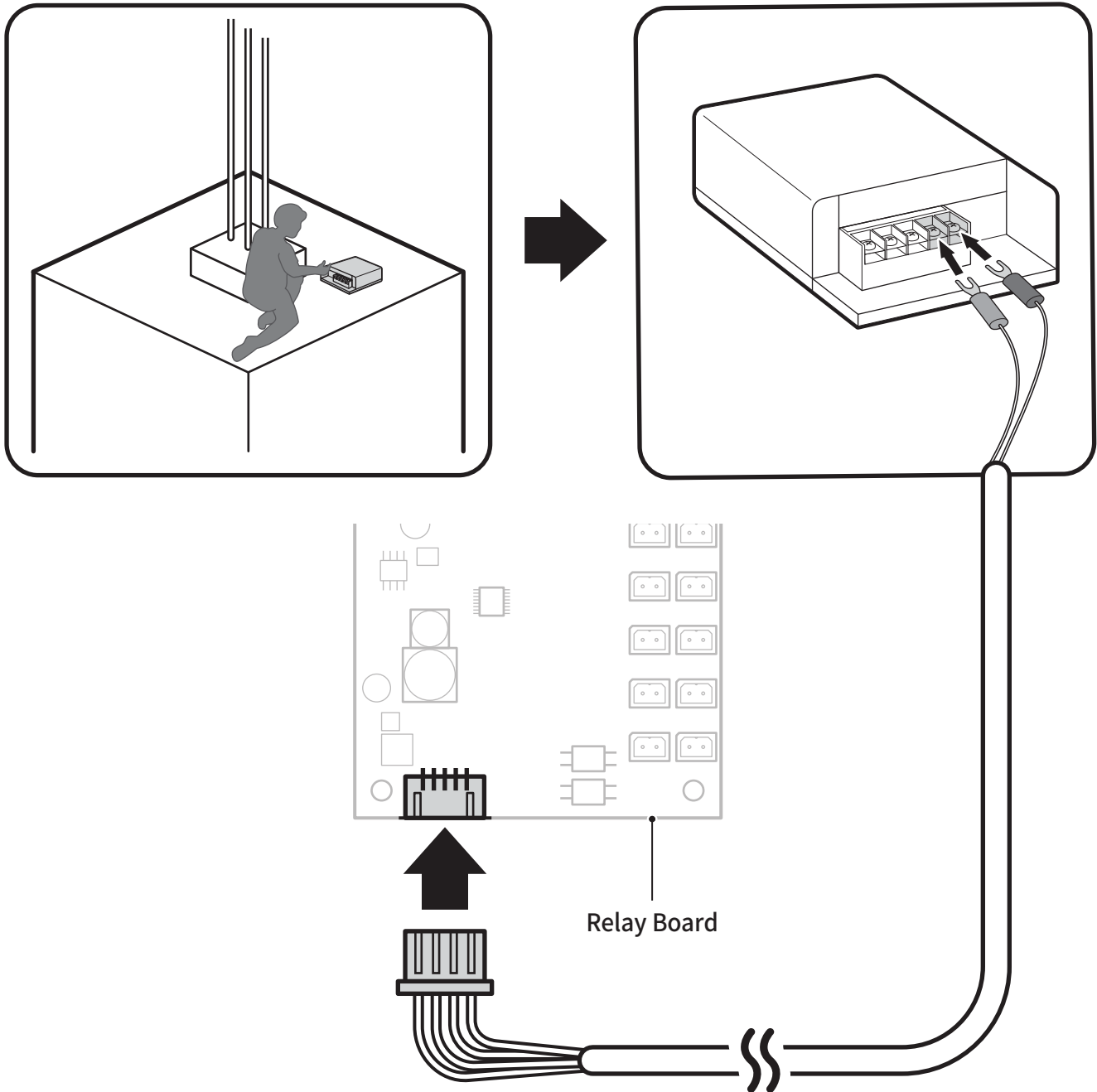


Caution

- If the Y-cable connectors do not fit properly, use a dry connection as an alternative.
- Hyundai Elevators reverse the order of A and B.
- When connecting cables, pay attention to the direction and type of cables.

Installation Guide

Power Connection



Caution

For the relay board to function properly, a steady 24v current must be provided.

MEMO
