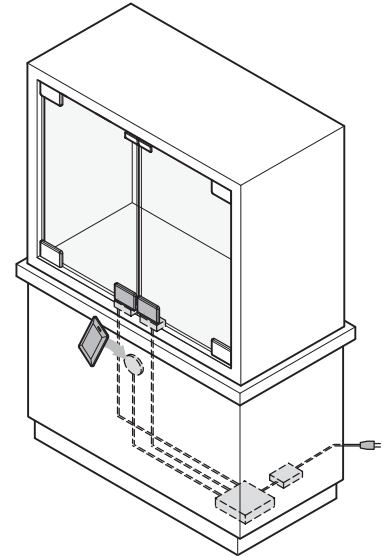


EXCELOCK TOTAL LOCK NON-CONTACT ELECTRONIC LOCK SYSTEM OPERATION MANUAL

Thank you for selecting our product. Before starting installation, please read this manual thoroughly to ensure correct installation. Please keep this manual at hand for future reference.

ABOUT THE PRODUCT


- This next-generation lock system is able to lock/unlock by just bringing a unit near antenna. When closing the door, it is automatically locked.
- It is applicable for sliding doors, and glass doors or show case. It can also be used on wooden doors or drawers.




FOR YOUR SAFE WORK AND CORRECT

Meaning of symbols



 **WARNING** If these warnings are not followed, it may result in death or serious injury.

 **CAUTION** If these cautions are not followed, it may result in injury or damage.









WARNING






- When installing this lock system, follow instructions on this manual without mistake.
- During removal, installation and cleaning of this system, please turn off power source to avoid electric shock or fire.
- Do not disassemble, modify or repair to avoid fire, shock or injury.
- When you find abnormal state, immediately turn off the power source. And, contact to sales shop or electrical work shop.
- Do not use this lock system near inflammable material such as gasoline, inflammable spray or organic solvent to prevent fire.
- Do not fix the cord with staple, by desk leg. When stress is applied to the cord, it may be broken resulting in shock or fire.
- Do not use damaged or broken cord to avoid shock or fire.
- Do not pull the cord to pull out plug. The cord may be damaged resulting in shock or fire.
- Do not use at wet place. Do not handle plug with a wet hand.

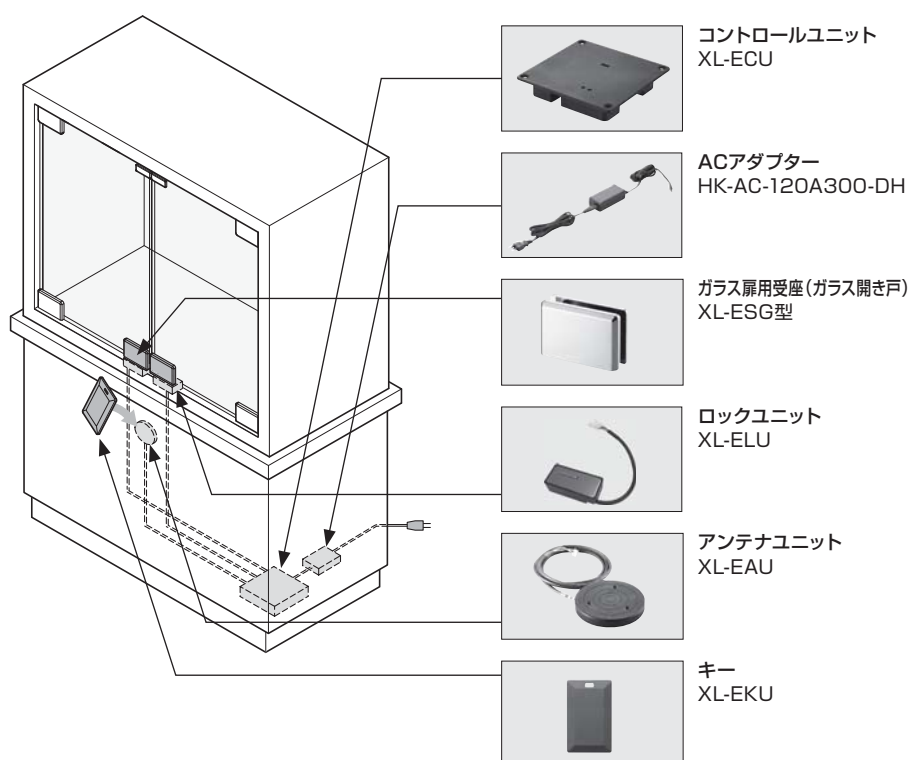
CAUTION

- This lock system is designed to use for wood cabinets. Do not use for other purpose.
- Do not apply excessive force to the lock. Do not drop or hit the lock system. Damage or injury may be resulted.
- Ambient temperature: 0 to 40°C , Ambient humidity: 10 - 90%RH
- Avoid rain and accessibly high humidity to prevent trouble. Transmission distance may be shorten under low temperature.
- Do not use the lock system with too much vibration or shock to avoid damage.
- Do not paint the lock to avoid damage.
- In case of power blackout, the system maintains the status before blackout. If it is necessary to operate during blackout, apply uninterrupted power supply.
- If there's any wireless communication device (Wi-Fi device or smartphone) is used nearby antenna, malfunction may be caused.
- Storage temperature: -20 to 60°C

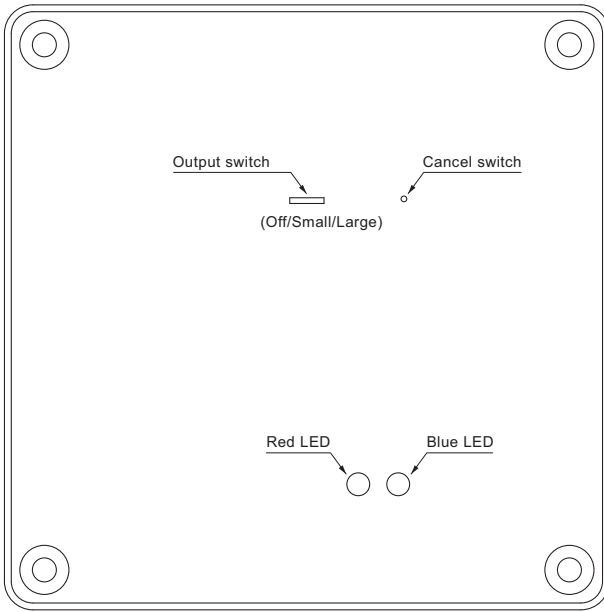
■ PARTS NAME AND SPECIFICATIONS

	Part Number	Part Name	Specifications
1	XL-ECU	Control unit 	External size:106.0(L)×106.0(W)×19.5(H) Material/Finish: ABS resin/Black Power source: DC12 V 3A Current consumption: Standby less than 20 mA/Working less than 1.9 A Accessory: 4 spacer pipe Countersunk head tapping screws 4×12 (4) Countersunk head tapping screws 4×30 (4)
2	XL-EAU	Antenna unit 	External size: 100.0 dia. × 12.5(H) Material/finish: ABS resin/Black Communication method: RF-ID(416kHz) Transmission intensity: Faint Transmission distance: 0-30 mm Accessory: Antenna cable 1.5 m (1) Countersunk head tapping screw 4×20(3) It may vary according to ambient temperature.
3	HK-AC-120A300-DH	AC adaptor 	External size: 110.0(L)×52.0(W)×31.5(H) *excluding cable Input: 100-240V AC 50-60Hz 105 Output: 12V DC 3A
4	XL-EEU	Extension unit 	External size:106.0(L)×106.0(W)×19.5(H) Material/Finish: ABS resin/Black Power source: DC12V 3A Current consumption: Standby less than 20 mA/Working less than 1.9 A Accessory: Cable for the unit 2m (1) spacer pipe (4) Countersunk head tapping screws 4×12 (4) Countersunk head tapping screws 4×30 (4)
5	XL-EKU	Key 	External size: 70.0 (L) × 43.3(W) × 5.4 (H) Material/finish: ABS resin/Black ID Q'ty: 10,000
6	XL-ELU	Lock unit 	External size:60.0(L)×26.0(W)×20.0(H) Material/Finish: Zinc alloy/Nickel plate Cord length: 200 mm, connecting cord :1000 mm Accessory: Rim bracket (1) Cover plate (1) Pan head tapping screw 3.5 ×12 (4) Pan head tapping screws 3.5×30 (3)
7	XL-ESG-R(right-open) XL-ESG-L (left-open)	Strike plate for glass door  XL-ESG-R is shown	External size:65.0(L)×26.0(W)×40.0(H) Material/Finish: Zinc alloy/Chrome plating Applicable glass thickness: 5, 6 and 8 Accessory: Adjusting spacer (4)
8	XL-ESW-R(right-open) XL-ESW-L (left-open)	Strike plate for wood door  XL-ESW-R is shown	External size:65.0(L)×28.0(W)×20.0(H) Material/Finish: Stainless steel/Natural Accessory: Pan head tapping screw 4×16 (3)

	Part Number	Part Name	Specifications
9	XL-EBSG	Strike plate glass mount bracket 	External size:66.0(L)×28.0(W)×20.0(H) Material/Finish: Zinc alloy/Chrome plating Applicable glass thickness: 5, 6 and 8 Accessory: Pan head screw M4×14 (2) Adjusting spacer (4) (XL-EBSG Used in combination with Strike plate for wood door)
10	XL-ESD	Drawer strike plate 	External size:64.0(L)×15.6(W)×46.0(H) Material/Finish: Stainless steel/Natural Accessory: Pan head tapping screw 4×16 (3)
11	XL-ESG-SD	Strike plate for glass sliding door 	External size:65.0(L)×26.0(W)×40.0(H) Material/Finish: Zinc alloy/Chrome plating Applicable glass thickness: 8
12	XL-ELU-SDR(right-open) XL-ELU-SDL(left-open)	Lock unit for glass sliding door  XL-ELU-SDR(right-open) is shown	Glass slide door strike plate External size: 60.0(L)×26.0(W)×20.0(H) Material/Finish: Zinc alloy/Chrome plating accessory: Rim bracket (1) Cover plate (1) Pan head tapping screw 3.5 ×12 (4) Pan head tapping screws 3.5×30 (3)
13	XL-ELU-EC2000 XL-ELU-EC4000	Extension core for lock unit 	Length: 2000 mm, 4000 mm



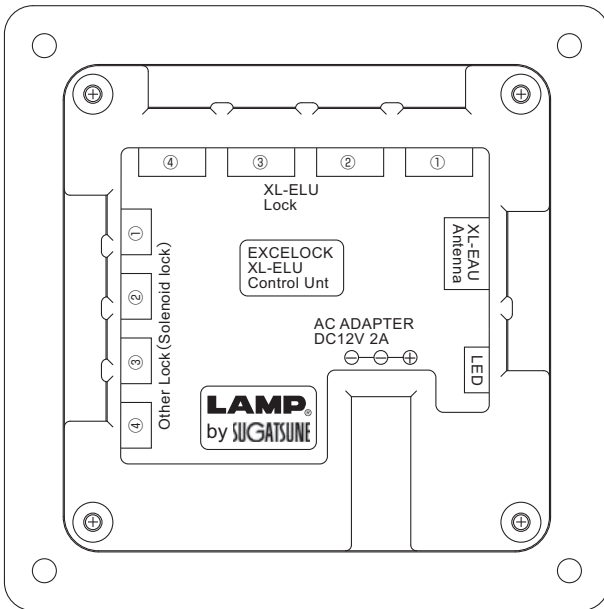
1 Name and Specifications of Control Unit



- Output changeover switch hanging buzzer output
『11 Other functions』
- Erase switch
(Push with ϕ 1wire.)
Erasing control key and function key
『4 Deleting Operation key』
『5 Deleting Control key』
- Red LED and Blue LED

Indications

『12 Indications and buzzer output』



Rating	
Power source	DC 12V AC adaptor used
Current consumption	Standby: less than 20mA / Working: less than 1.9A
Max. No. of registration	Control key: 2 / Operation key: 30
No. of rewriting	More than 100,000 times
Communication method	RF-ID (416 kHz)
Transmission intensity	Weak

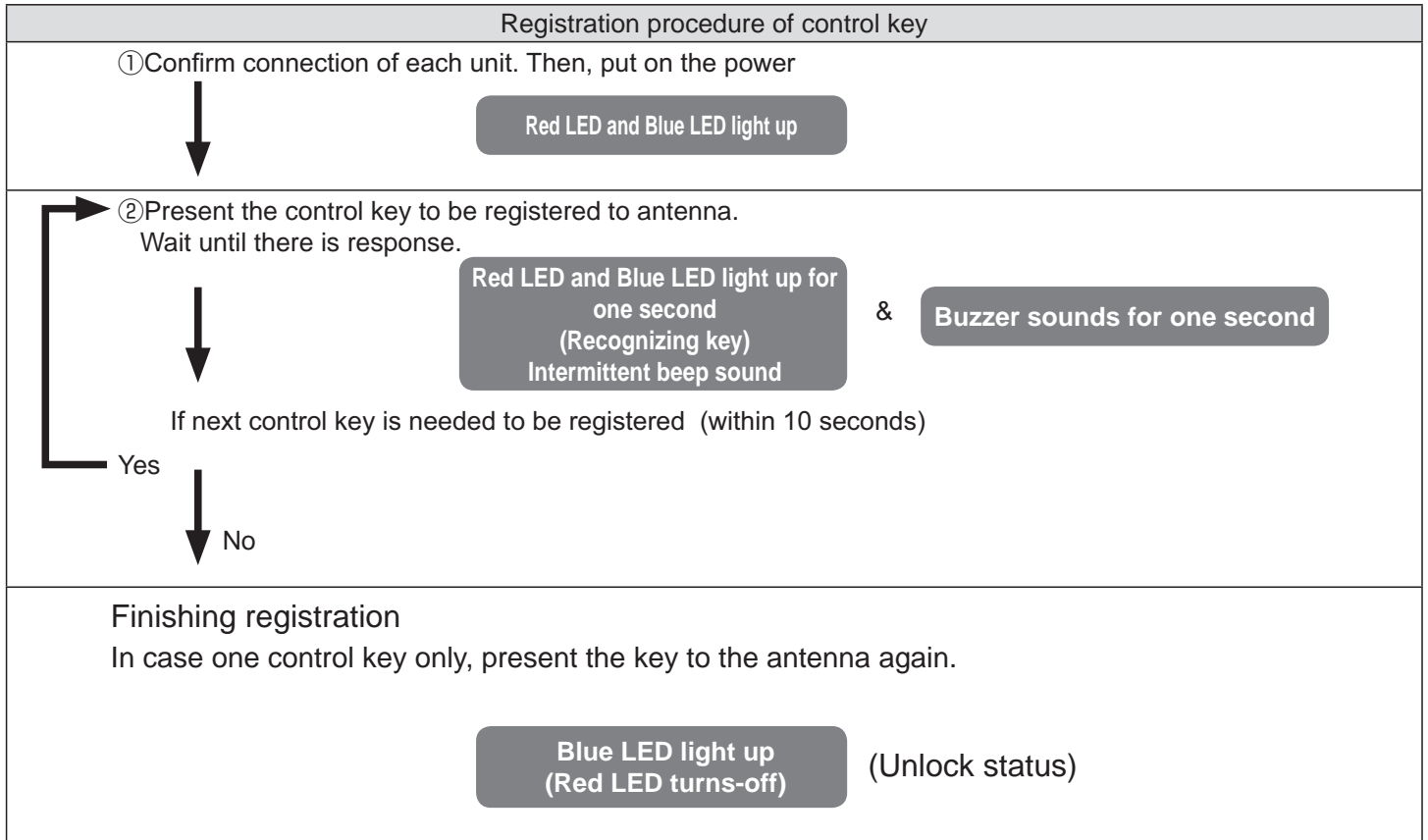
2 Registration of control key [Maximum numbers of registration: 2]

- Control key is not registered at the time of shipment.
- After set up on the site, control key registration is necessary.
- When putting on the power after connecting each unit, the system becomes default status, allowing control key registration. (* 1)
- Two control keys can be registered in maximum.

For indication (LED. etc.), refer to 「**12**Indications and buzzer output」

■Method of registration (at initial setting) *Prepare one or two control key.

It is recommended to work with half an eye on the LED of control unit.



*Locking/Unlocking is not possible by control key. (Function key is necessary.)

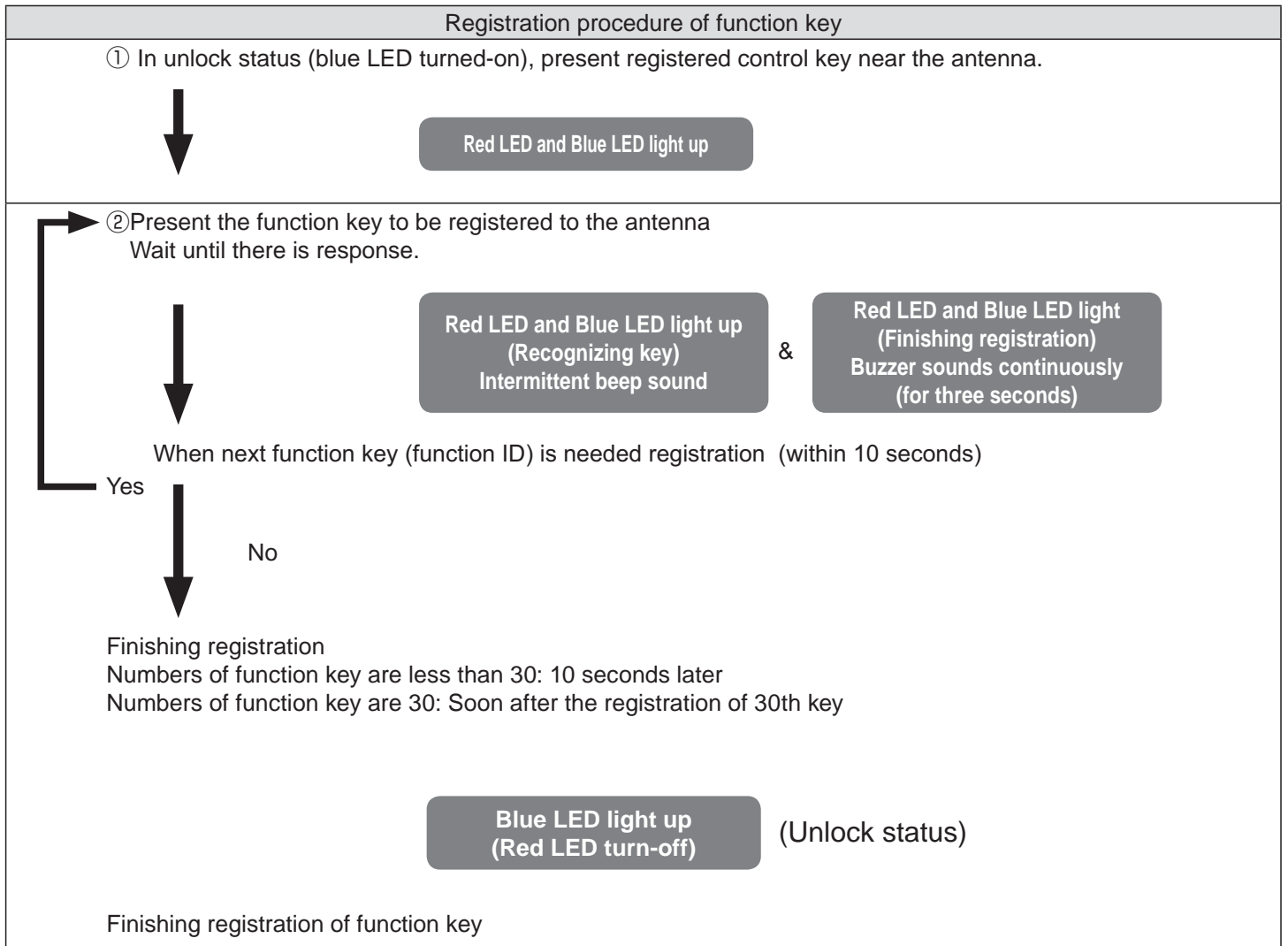
* When registering second control key on the control unit which was registered by first control key, it is necessary

to cancel control key and function key (refer to procedure **6**). Then, repeat necessary key registrations.

3 Registration of function key [Maximum numbers of registration: 30]

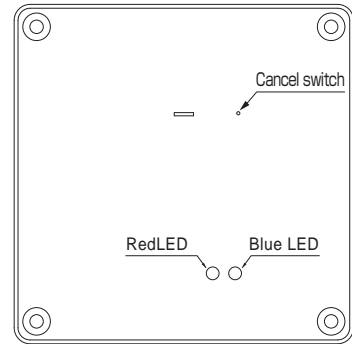
- Function key is not registered at the time of shipment.
- Function key registration is necessary, after registration of control key.
- Thirty function keys can be registered in maximum. For indication (LED. Etc.), refer to [12 Indications and buzzer output] .

- Method of registration Prepare all control keys and function keys to be registered.
It is recommended to work with half an eye on the LED of control unit.



4 Cancelling function key

- When function key is lost, it is recommended to cancel function key registration for security. Then, make new registration of function key.
- Required items
 - Function key
 - φ1 wire or similar to push cancel switch



Method of cancellation

Deleting procedure of function key

- ① In unlock status (blue LED-on), push cancel switch until buzzer sounds (more than three seconds).



Blue LED and Red LED flash
(3 seconds)

&

Buzzer sounds continuously
(3 seconds)

Canceling procedure of function key

5 Cancelling control key

Method of cancellation

- Required items
 - Control key
 - φ1 wire or similar to push cancel switch.

Cancel procedure of control key

- ① In unlock status (blue LED-lighting), present registered control key near antenna.



Red LED and Blue LED light up

- ② Push cancel switch until buzzer sounds (more than three seconds).



Red LED and Blue LED blink.
(for five seconds)

Buzzer sounds continuously
(for five seconds)

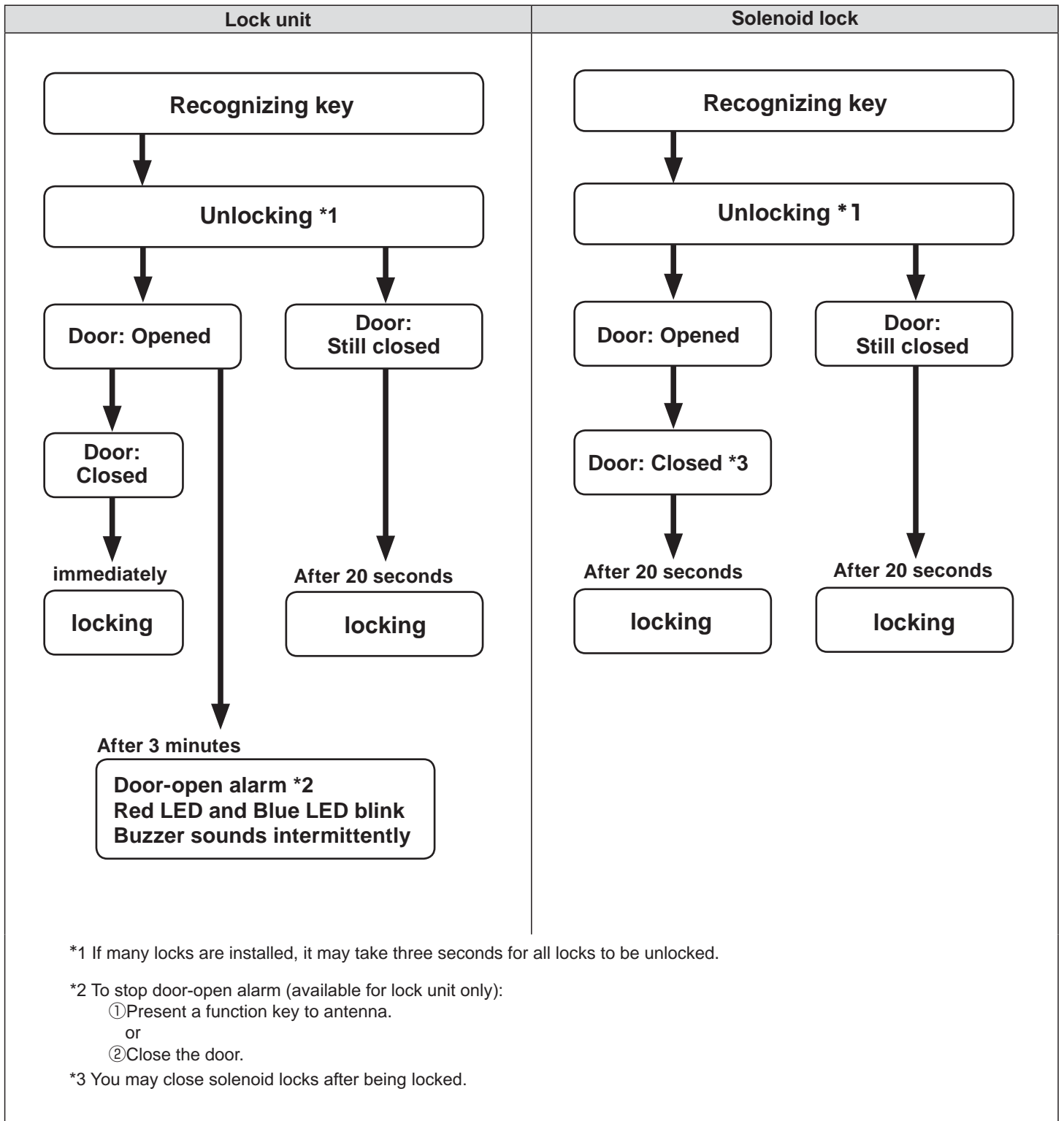
Control key cancelled ⇒ Back to initial status

CAUTION

When cancelling control key, function keys are also deleted.

6 Unlock - Operation and Behavior

- To unlock, present a registered function key near the antenna.



7 Typical errors and solutions

For the detail of error behavior, refer to "12 Indications and buzzer output".

■ When a lock unit failed to lock:

⇒there will be an error behavior.

To stop the alarm sound, present a function key to the antenna.
then close the door completely.

■ When wiring of lock unit has a problem (breaking or disconnection):

⇒there will be an error behavior.

Power off the system. Correct the wiring, then power on.

■ When wiring of antenna has a problem (breaking or disconnection):

⇒there will be an error behavior of antenna.

Power off the system. Correct the wiring, then power on.

■ Long term door-open

⇒When a door with lock unit is opened more than three minutes,
there will be a door-open alarm from the connected lock unit or extension unit.
To stop the alarm, close the door or present a function key to the antenna.

8 Other functions

■ Output for external LED

Signal is sent together with blue LED signal at the time of door open warning,
error report, antenna error report.

Output: 4V DC

Exclusive connector is required.

■ Buzzer output change-over function

Buzzer volume can be changed with output change-over switch (OFF/low/loud).

When OFF is selected, there will be no sound for door-open alarm,
but small sound for the other buzzer.

■ Additional extension unit

It is possible to increase lock units and solenoid output by connecting additional extension units.

Maximum numbers of unit:

Extension unit: 4 pcs

Lock unit: 20 pcs

Solenoid locks: 16 pcs

9 Indications and buzzer output

		Red LED	Blue LED	Buzzer output	External LED	Lock unit
Control key registration	Default mode	○	○	—	—	Unlock
	At registration	△	○	Beep (3 sec.)		
Function key registration	Resist-mode	○	○	—	—	Unlock
	At registration	△	○	Beep (3 sec.)	—	
Cancelling control key	Standby mode	○	○	—	—	Unlock
	At cancel	△	△ (5 sec.)	Beep (5 sec.)		
Cancelling function key	Standby mode	—	○	—	—	Unlock
	At cancel	△	△ (3 sec.)	Beep (3 sec.)		
Locking (automatic)	Standby mode	—	○	—	—	Unlock ↓ 《Lock》
	Sensor detection	○(0.2 sec.)	—	Short beep (1 time)		
Locking	Standby mode	—	—	—	—	Unlock ↓ 《Lock》
	Key detection (unlock)	○ (0.4 sec.)	○	Short beep (2 times)		
Error report	Error	—	△	Beep (2 times) Beep (2 times)	△	—
Antenna error report	Error	—	△	Beep (3 times) Beep (3 times)	△	—
Door-open warning	Error	—	△	Short beep (2 times)	△	—

○ : Light up △ : Blink — : No output

■TROUBLESHOOTING

TROUBLE	CHECK	SOLUTION
① No function	(A) Check power plug and connectors.	Confirm and correct poor connection.
	(B) Check breakage or damage of cable.	If defective cable is found, stop use immediately. Contact our sales shop or an electrician.
	(C) Check external view of unit.	If defective cable is found, stop use immediately. Contact our sales shop or an electrician.
② Door is not locked, even when closed.	(A) Check positions of lock unit and strike plate when closing the door.	Check if the deadbolt gets in the slot on the strike plate smoothly.
	(B) Check if door stopper stops the door at correct position.	Lock unit fails to lock if the strike plate does not come to a correct position when the door closed.
	(C) The deadbolt does not come out even through the motor sounds.	Stop use immediately. Contact our sales shop or an electrician.
③ Error warning sounds.	(A) Check if door is kept open.	<ul style="list-style-type: none"> • Close the door. • When door is kept open for more than 3 minutes, door-open warning is sent to sound. • The alarm stops when closing the door (door is locked).
	(B) When door is closed, check if relative position of lock unit and strike plate is correct.	<ul style="list-style-type: none"> • Place key near antenna to lock. Sound stops when door is closed. • If sound continues, relative position of lock unit and strike plate may be incorrect. • Correct the positions referring Trouble ② above.
	(C) Is there any disconnection between control unit and locks or antenna?.	Power off the system. Correct the wiring, then power on.
④ Door would not open. (Key cannot unlock.)	(A) Check condition of cable connection.	Correct cable connections referring Trouble ① above.
	(B) Check if excessive load is applied on the door or lock unit, preventing correct function.	<p>The following may be affected:</p> <ul style="list-style-type: none"> • Deformation, warp or damage of door or furniture. • Furniture is inclined or not horizontal. • Object stored in the furniture pushes the door from inside. <p>After removing the load from lock unit or its strike plate, open the door.</p>
	(C) The status of lock unit might be improper when power was switched on.	Malfunction is caused if a lock unit is switched on at locked status without strike plate coupled. To solve the problem, power off the system. Couple a strike plate with the lock, then power on.
⑤ Recovery from blackout	(A) Blackout under locked status.	The system maintains the locked status. No special action is required after the recovery.
	(B) Blackout under unlocked status.	Lock unit keeps unlocked, but solenoid lock gets locked when power is lost. You may close any opened door regardless the power status.

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