

**ABLOY® EL460, EL461, EL462, EL463,  
EL560, EL561, EL562, EL563**

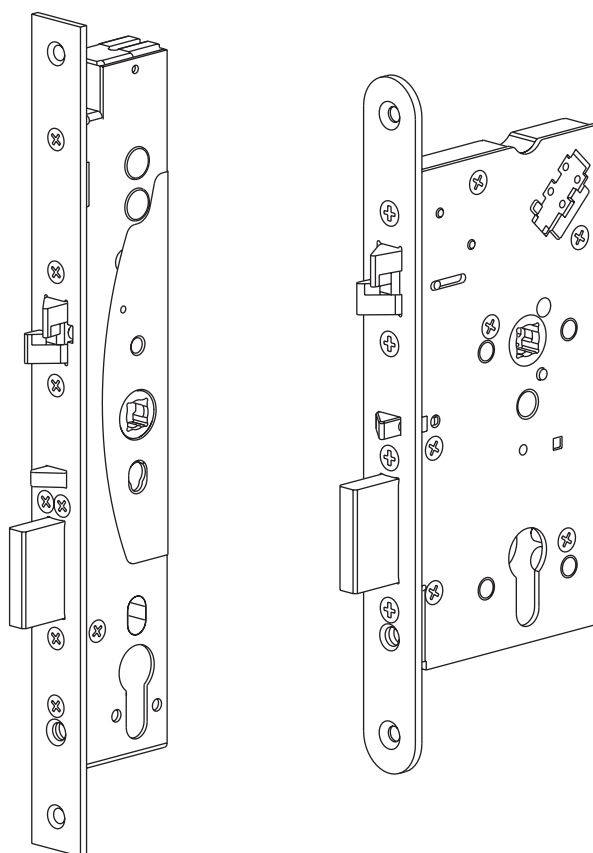
*-Solenoid Lock, Türdrückersteuerungen, Cerradura  
Electromecánica de Solenoide, Serrature a solenoide,  
Соленоидный замок*

**ABLOY® EL260, EL262, EL360, EL362**

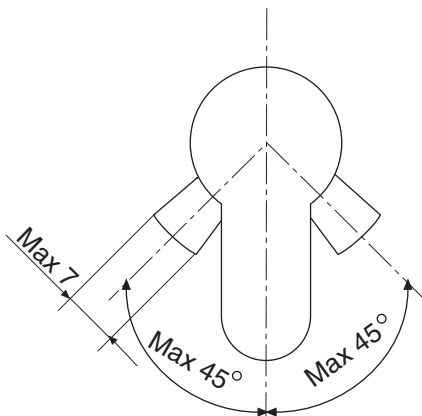
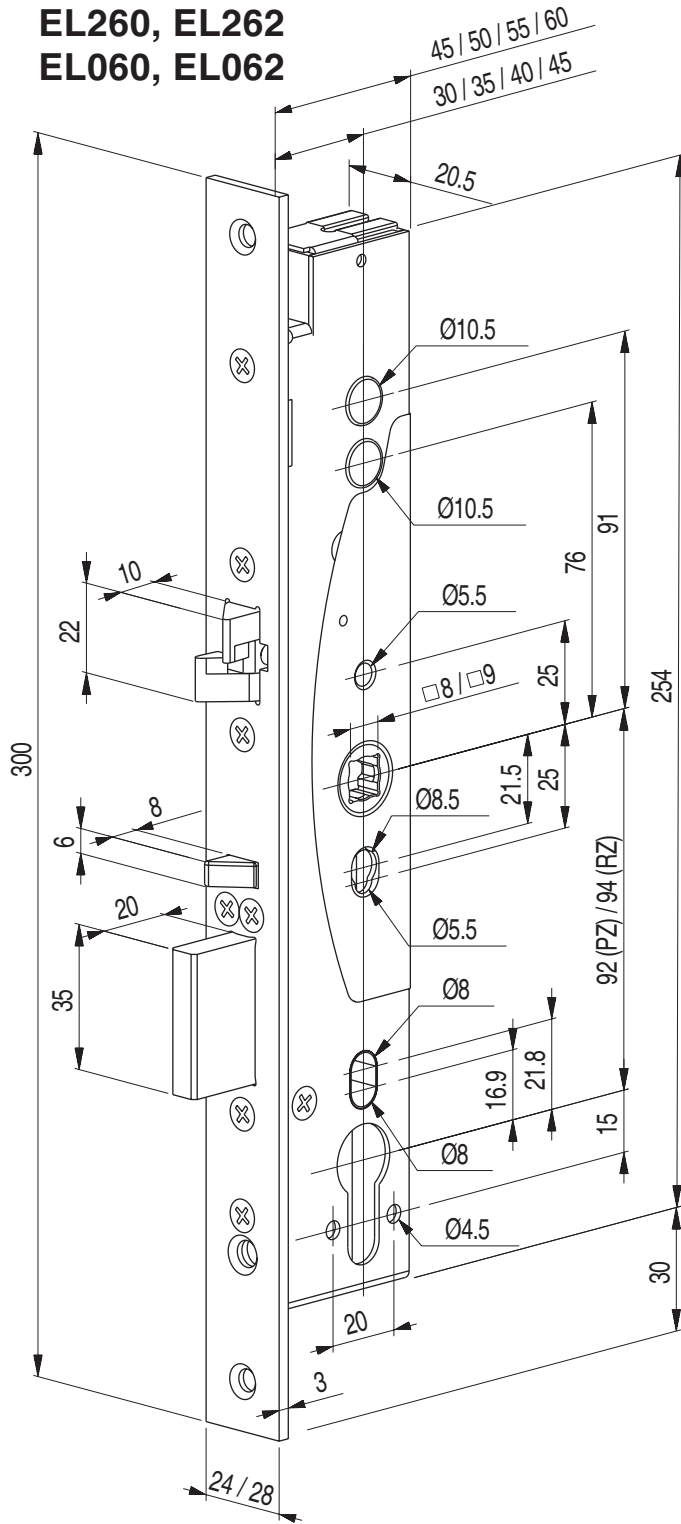
*-Micro Switch Lock, Schlösser mit elektronischer Überwachung,  
Cerradura de Micro, Serrature meccaniche con microswitch,  
Замок с микропереключателем,*

**ABLOY® EL060, EL062, EL160, EL162**

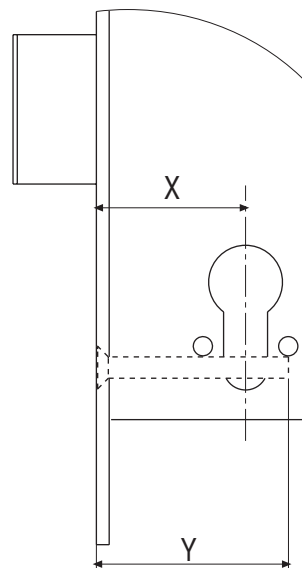
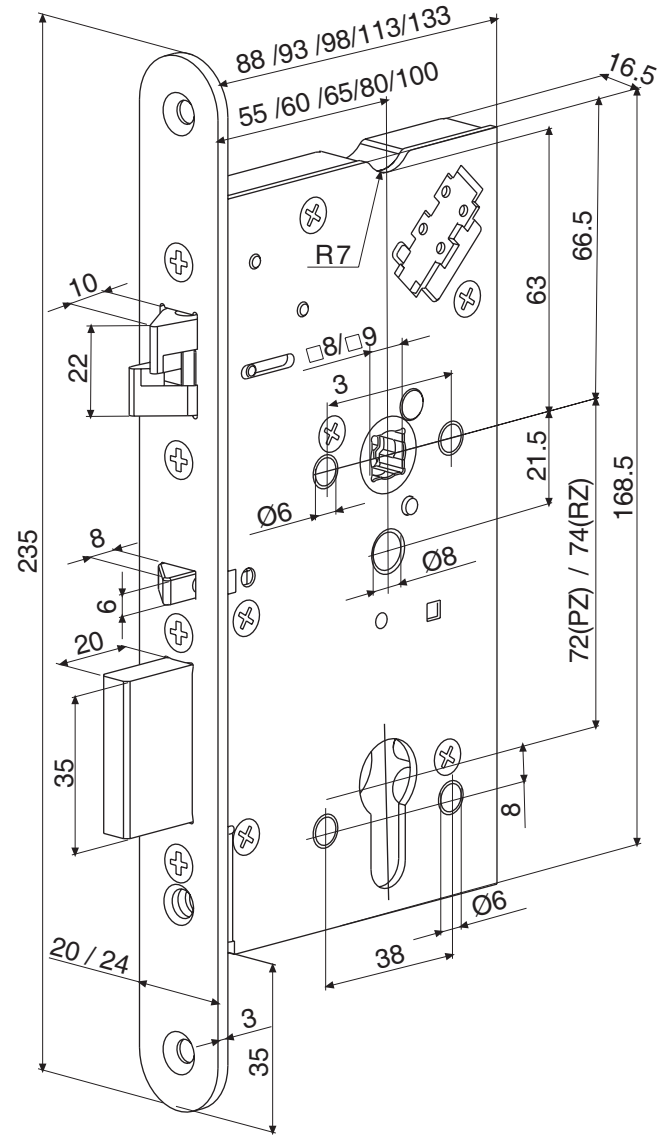
*-Mechanical Lock, Rein mechanische Schlösser, Cerradura  
de Mecanicas, Serrature meccaniche, Механический замок*



**EL460 - EL463**  
**EL260, EL262**  
**EL060, EL062**



**EL560 - EL563**  
**EL360, EL362**  
**EL160, EL162**



| X   | Y max. |
|-----|--------|
| 30  | 40     |
| 35  | 45     |
| 40  | 50     |
| 45  | 55     |
| 50  | 70     |
| 55  | 75     |
| 60  | 80     |
| 65  | 85     |
| 80  | 90     |
| 100 | 110    |

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**TECHNICAL DETAILS**

|                           |   |
|---------------------------|---|
| Operating voltage *) **): | 12 – 24 V DC STAB (-10%, +15%)  |
| Current **):              | Max. 0.35 A<br>Idle 0.13 A (12 V DC)<br>0.065 A (24 V DC)   |
| Micro switches **):       | Max. 0.5 A 30 V AC/DC resist.10 W   |
| Operating temperature:    | -20°C - +60°C   |
| Bolt throw:               | 20 mm (deadbolt), 10 mm (double action bolt)  |
| Backset:                  | 55, 60, 65, 80, 100 mm (EL560 - EL563)<br>30, 35, 40, 45 mm (EL460 -EL463)  |
| Forend:                   | 20, 24 mm (EL560 - EL563)<br>24, 28 mm (EL460 - EL463)  |
| Spindle:                  | 9 mm (8 mm with snap spindle adapter) (Table N/40)  |
| Connection cable:         | EA218 (6 m) / EA219 (10 m) 18 x 0.14 mm <sup>2</sup>  |
| Door clearance:           | 2 - 5.5 mm (between forend and strike plate)  |
| Settable functions:       | Mechanical functions:<br>- Opening direction of trigger bolt<br>- Exit handle side (EL560, EL562, EL460, EL462)<br>Electrical function: *) **)<br>- Fail locked / Fail unlocked |
| Monitoring outputs **):   | Bolt deadlocked<br>Lock open<br>Trigger bolt in<br>Handle down<br>Cylinder used<br>Sabotage   |
| Strike plate:             | EA321, EA322, EA323, EA324  |

\*) Not micro switch locks

\*\*) Not mechanical locks

**TIP!**

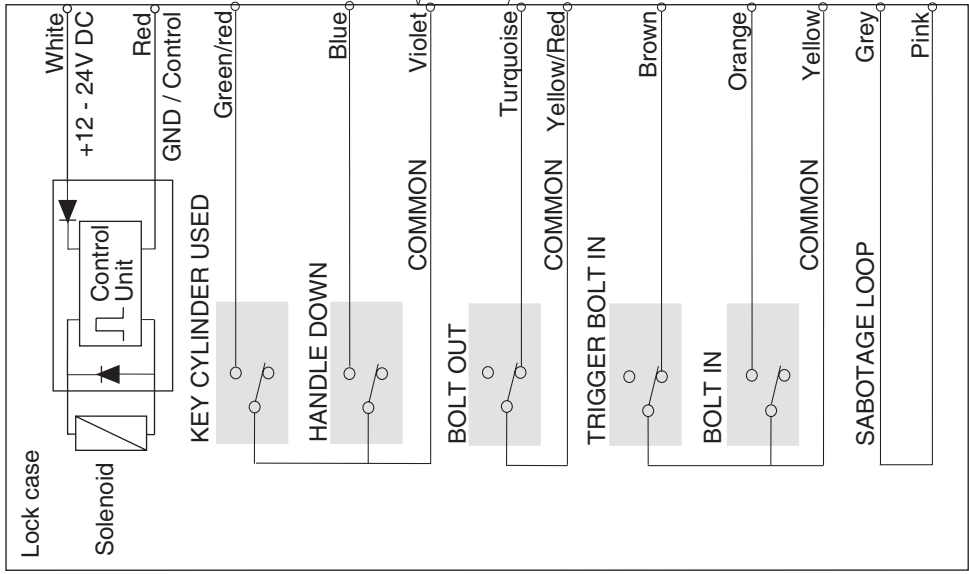
Remove exit handle Allen screw of split spindle lock case to enable electrical controlling of both handles (through spindle lock function). In this case, remove or cover also the CE mark label.

**TESTED ACCORDING TO THE STANDARDS**

| EN STANDARDS      |                     |            |
|-------------------|---------------------|------------|
| EN 179            | 3 7 6 1 1 3 4 2 A   | Exit       |
| EN 1125           | 3 7 6 0 1 3 2 1/2 A | Panic exit |
| EN 1634-1         |                     | Fire       |
| EN 61000-6-1:2001 |                     | EMC        |
| EN 61000-6-3:2001 |                     | EMC        |

# WIRING DIAGRAM

**EL460, EL461, EL462, EL463,  
EL560, EL561, EL562, EL563  
EL260, EL262, EL360, EL362**

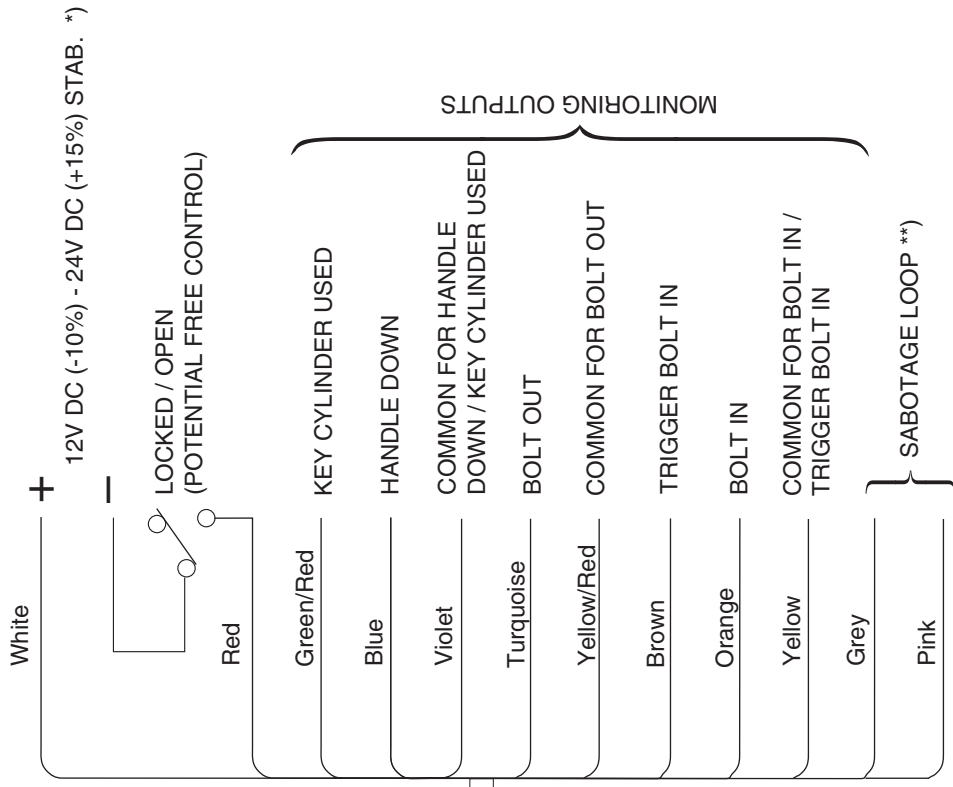


Micro switches of lock case when:  
 - Key cylinder not used  
 - Handle not used  
 - Bolt out  
 - Trigger bolt in  
 - Bolt not in

## WARNING!

Do not use handle down indication to lock's control. It is made for access control and prevention of the burglary alarm.

\*) not micro switch locks



Connection cable EA218 / EA219  
 Length 6m / 10m 18 x 0.14 mm<sup>2</sup>

\*\*.) Potential free loop is closed when connection cable is connected to lockcase.



## EMERGENCY EXIT DEVICES INSTALLATION ACCORDING TO EN 179

ENGLISH

The following lock cases and handles are approved to be installed together in an emergency exit door. Strike plate EA321/EA322/EA323/EA324 must be used in the installation.

| Profile door locks                 | IKON<br>DO 20.15.02 | FSB<br>DO 20.03.01, DO 20.03.02  | HEWI<br>DO 20.13.01, DO 20.13.02  |
|------------------------------------|---------------------|--|---|
| EL460, EL462                       | S6B3, S6B6          | 1016, 1023, 1056, 1070,<br>1080, 1088, 1090, 1117,<br>1118, 1119, 1137, 1146,<br>1155, 1160, 1161, 1162,<br>1177, 1178, 1191, 0612,<br>0616, 0617, 0619, 0625,<br>0627, 0628, 0646, 0662,<br>0665, 0680, 0681, 0682,<br>0688 | 111, 111.23,<br>114.23GK, 131, 132,<br>111X, 113X, 114X,<br>161X, 163X, 171X,<br>112X, 165X, 166X |
| EL260, EL262,<br>EL060, EL062      | S6B8                |  |   |
| <b>Wooden and metal door locks</b> | IKON<br>DO 20.15.01 | 1016, 1023, 1056, 1070,<br>1080, 1088, 1090, 1117,<br>1118, 1119, 1137, 1146,<br>1155, 1160, 1161, 1162,<br>1177, 1178, 1191, 0612,<br>0616, 0617, 0619, 0625,<br>0627, 0628, 0646, 0662,<br>0665, 0680, 0681, 0682,<br>0688 | 111, 111.23,<br>114.23GK, 131, 132,<br>111X, 113X, 114X,<br>161X, 163X, 171X,<br>112X, 165X, 166X |
| EL560, EL562                       | S326, S426, S4K3    |  |   |
| EL360, EL362<br>EL160, EL162       | S4K6                |  |   |

### Functional check after installation:

Emergency exit (active) side and functional sensitivity tests:

- Use the handle of exit side. Exit side is correctly set if the bolt goes inside the lock case irrespective of the electrical control.
- **In the profile door locks** the force of handle is about 15 N (approximately 1.5 kg weight at a 100 mm distance from the pivot of the handle opens the lock).
- **In the wooden door locks** the force of handle is about 25 N (approximately 2.5 kg weight at a 100 mm distance from the pivot of the handle opens the lock). According to EN 179 the force of handle must be less than 70 N.
- Close the door slowly and check that the lock deadlocks.
- Check that the bolts slide freely into the strike plate.

⚠ **The safety features of this product are essential to its compliance with EN 179. No modification of any kind, other than those described in these instructions, are permitted.**

## PANIC EXIT DEVICES INSTALLATION ACCORDING TO EN 1125

The following lock cases and push bars are approved to be installed together in a panic exit door. Strike plate EA321/EA322/EA323/EA324 must be used in the installation.

| Profile door locks                         | effeff<br>DO 30.04   | JPM<br>DO 30.05  | TESA<br>DO 30.06             |
|--|--|--|------------------------------|
| EL460, EL260, EL060<br>EL462, EL262, EL062 | 8000-00-1100 (-), 8000-10-1100 (PZ)<br>8000-00-1100 (-), 8000-11-1100 (RZ) | NORMA<br>990000-XX-0A, 990100-XX-0A,<br>990001-XX-0A, 990101-XX-0A,<br>991000-XX-0A, 991100-XX-0A,<br>991001-XX-0A, 991101-XX-0A | UNIVERSAL SERIE<br>19709G9xx |
| <b>Wooden and metal door locks</b>         | effeff<br>DO 30.04   | (870000-30-0A, 870000-31-0A,<br>870000-32-0A, 870000-33-0A)  |                              |
| EL560, EL360, EL160<br>EL562, EL362, EL162 | 8000-00-1100 (-), 8000-20-1100 (PZ)<br>8000-00-1100 (-), 8000-21-1100 (RZ) |  |                              |

### Functional check after installation:

Panic exit (active) side and functional sensitivity tests:

- Push the push bar towards the door on the exit side. Exit side is correctly set if the bolt goes inside the lock case irrespective of the electrical control.
- Force to open the lock by pushing the push bar is about 60 N (approximately 6kg). According to EN 1125 it must be less than 80 N.
- Close the door slowly and check that the lock deadlocks.
- Check that the bolts slide freely into the strike plate.

Note! The length of the push bar must be at least 60 % of the width of the door.

⚠ **The safety features of this product are essential to its compliance with EN 1125. No modification of any kind, other than those described in these instructions, are permitted.**

**Recommended distance from a floor to a handle or to a push bar is between 900mm - 1100mm.**

**Lubricate the bolts of the lock case at least once a year. Use vaseline type lubrication (e.g. ISOFLEX TOPAS NB52).**

**Note! Abloy Oy will not be liable for products in case these instructions are not followed.**

## SETTABLE FUNCTIONS OF EL460, EL461

ENGLISH

### CHANGING THE FOREND Fig. A

1. Set the lock case forend up on the table.
2. Unscrew the fixing screws and remove the forend. Please note that the double action bolt and its two bushings do not fall off.
3. Set another forend and screw in the screws. Use LOCTITE 243 on each fixing screw.

### REMOVING THE MANIPULATION PROTECTION COVER Fig. B

### SETTING THE ELECTRICAL FUNCTION: FAIL LOCKED -> FAIL UNLOCKED Fig. C (Needed tool: 1.5 mm Allen key)

The lock case is delivered in Fail locked mode:  
Power off -> Handle does not open the lock.  
Power on -> Handle opens the lock.

The lock case can be changed in Fail unlocked mode. Then the lock works electrically in the following way:

Power off -> Handle opens the lock.  
Power on -> Handle does not open the lock.

The electrical function is changed from Fail locked into Fail unlocked mode in the following way:

1. Remove the Allen screw from the right-hand hole (**Fig. C1**).
2. Screw in the Allen screw in the left-hand hole (**Fig. C2**). The Allen screw should settle a little under the plastic edge, but please note not to use strength.

When the Allen screw is fixed in the right-hand hole, the electrical function is Fail locked.  
When the Allen screw is fixed in the left-hand hole, the electrical function is Fail unlocked.

### SETTING THE EXIT HANDLE SIDE (EL460) Fig. D (Needed tool: 2.5 mm Allen key)

Exit side of the lock case is set with an Allen screw. The handle, of which side the Allen screw is fixed, always opens the lock, while the handle of the other side is controlled electrically.

The lock case is delivered so, that the Allen screw is fixed on the caser side of the lock case.

Exit handle side can be changed in the following way:

1. Remove the Allen screw from the caser side of the lock case (**Fig. D1**).
2. Screw in the Allen screw in the corresponding hole on the other side of the lock case (**Fig. D2**).

### CHANGING THE HANDING OF THE TRIGGER BOLT Fig. E (Needed tool: 2.5 mm Allen key)

1. Locate the Allen key between the two springs in the back of the lock case in the Allen screw-head of the trigger bolt (**Fig. E1**).
2. Loosen the Allen screw, so that the trigger bolt moves forward and can be turned around (**Fig. E2**). Please note not to unscrew the Allen screw.
3. When the handing of the trigger bolt is set, tighten the Allen screw (**Fig. E3**).

When the needed settings have been done, attach the manipulation protection cover.

### ATTACHING THE CABLE Fig. F

1. Unscrew the fixing screw and remove the cable clamp.
2. Connect the cable into the connector. Fix the cable clamp.

### SETTING 8/9 SNAP SPINDLE ADAPTERS Fig. M

8/9 snap spindle adapters are set if the lock case is installed with 8mm spindle. The adapters must be set on the both sides of the lock case.

There are two flat sides and two sides with a cup in a adapter. The round markings on the handle follower of a lock case denote the direction, in which the adapter is set. With EL260 and EL060 the direction of the adapter has to be noticed. With EL460/EL461 the direction has no significance.



**CHANGING THE FOREND Fig. G**

1. Unscrew the fixing screws and remove the forend.
2. Set another forend and screw in the fixing screws. Please note that a screw below the dead bolt is longer than the other screws. Use LOCTITE 243 on each fixing screw.

**SETTING THE ELECTRICAL FUNCTION: FAIL LOCKED FAIL UNLOCKED Fig. H**

The lock case is delivered in Fail locked mode:  
Power off -> Handle does not open the lock.  
Power on -> Handle opens the lock.

The lock case can be changed in Fail unlocked mode. Then the lock works electrically in the following way:

- Power off -> Handle opens the lock.  
Power on -> Handle does not open the lock.

The electrical function is changed from Fail locked into Fail unlocked mode by turning the changer, which is located on the case side of the lock case, in the following way:

1. Unscrew the fixing screw and pull out the changer.
2. Turn the changer around.
3. Put the changer back and screw in the fixing screw. Please make sure that the changer is straight and it fits tightly in the lock case.

When the arrows on the changer and the lock case are positioned as shown in the figure, the electrical function is Fail locked (**Fig. H1**).

When the arrows on the changer and the lock case are positioned as shown in the figure, the electrical function is Fail unlocked (**Fig. H2**).

**SETTING THE EXIT HANDLE SIDE (EL560) Fig. I (Needed tool: 2.5 mm Allen key)**

Exit side of the lock case is set with an Allen screw. The handle, of which side the Allen screw is fixed, always opens the lock, while the handle of the other side is controlled electrically.

The lock case is delivered so, that the Allen screw is fixed on the case side of the lock case. Exit handle side can be changed in the following way:

1. Remove the Allen screw from the case side of the lock case (**Fig. I1**).
2. Fix the Allen screw in the corresponding hole on the other side of the lock case (**Fig. I2**).

**CHANGING THE HANDING OF THE TRIGGER BOLT Fig. J (Needed tool: 2 mm Allen key)**

1. Press the trigger bolt inside the lock case until the Allen screw of the trigger bolt is shown on the cover side of the lock case.
2. Unscrew the Allen screw.
3. Pull out the trigger bolt and turn it around.
4. Put the trigger bolt back in its place and press it inside the lock case.
5. Screw in the Allen screw.

**SETTING MANIPULATION PROTECTION PLUG Fig. K**

Set the brass plug on the outside of the lock case as shown in the figure.

**ATTACHING THE CABLE Fig. L**

1. Connect the cable into the connector.
2. Use a cable tie to fix the cable to the lock case. Cut the cable tie short.

**SETTING 8/9 SNAP SPINDLE ADAPTERS Fig. M**

8/9 snap spindle adapters are set if the lock case is installed with 8mm spindle. The adapters must be set on the both sides of the lock case.

There are two flat sides and two sides with a cup in the adapter. The round markings on the handle follower of a lock case denote the direction, in which the adapter is set. With EL360 and EL160 the direction of the adapter has to be noticed. With EL560/EL561 the direction has no significance.



**DATOS TÉCNICOS**

|                            |  |
|----------------------------|--|
| Voltaje *) **):            | 12 - 24 V DC estabilizada (-10%, +15%)   |
| Intensidad *):             | Max. 0.35 A<br>Estacionario 0.13 A (12 Vcc)<br>0.065 A (24 Vcc)  |
| Temperatura de Operación:  | -20°C – 60°C   |
| Salida de Palanca:         | 20 mm (palanca), 10 mm (picaporte de doble acción)   |
| Entrada:                   | 55, 60, 65, 80, 100 mm (EL560 - EL563)<br>30, 35, 40, 45 mm (EL460 - EL453)  |
| Frente:                    | 20, 24 mm (EL560 - EL563)<br>24, 28 mm (EL460 - EL453)   |
| Nueca:                     | 9 mm (8 mm con adaptador) (Tabla N/40)   |
| Cable de Conexión:         | EA218 (6 m) / EA219 (10 m) 18 x 0.14 mm <sup>2</sup>   |
| Holgura de Puerta:         | 2 – 5.5 mm   |
| Funciones Ajustables:      | Mecánicas:<br>- Dirección de Apertura (disparador)<br>- Lado Controlado Eléctricamente (EL560, EL562, EL460, EL462)<br>Eléctricas: *) **)<br>- Seguridad Positiva / Seguridad Negativa |
| Señales Monitorizadas **): | Palanca Fuera<br>Cerradura Abierta<br>Disparador dentro<br>Manilla abajo<br>Apertura con Llave<br>Sabotaje   |
| Cerradero:                 | EA321, EA322, EA323, EA324   |

\*) No valido para cerraduras con micro

\*\*\*) No valido para cerraduras mecanicas

¡SUGERENCIA! Retire el tornillo allen que determina el lado activo (próximo a la nueca) si desea conseguir control eléctrico de ambas manillas. En este caso, elimine la etiqueta de certificación CE.

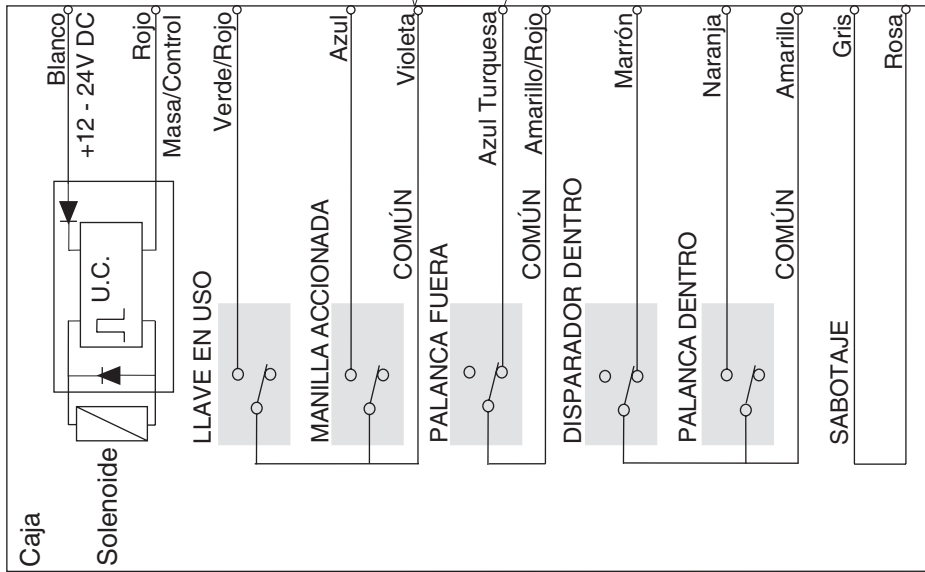
**NORMATIVA**

## EN STANDARDS

|                   |                     |                                 |
|-------------------|---------------------|---------------------------------|
| EN 179            | 3 7 6 1 1 3 4 2 A   | Dispositivos                    |
| EN 1125           | 3 7 6 0 1 3 2 1/2 A | Dispositivos Antipánico         |
| EN 1634-1         |                     | Fuego                           |
| EN 61000-6-1:2001 |                     | Compatibilidad Electromagnética |
| EN 61000-6-3:2001 |                     | Compatibilidad Electromagnética |

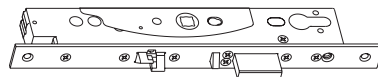
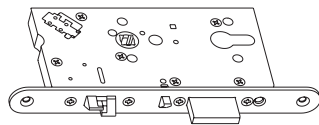
## ESQUEMA DE CABLEADO

**EL460, EL461, EL462, EL463,  
EL560, EL561, EL562, EL563  
EL260, EL262, EL360, EL362**



Microinterruptores inactivos cuando:

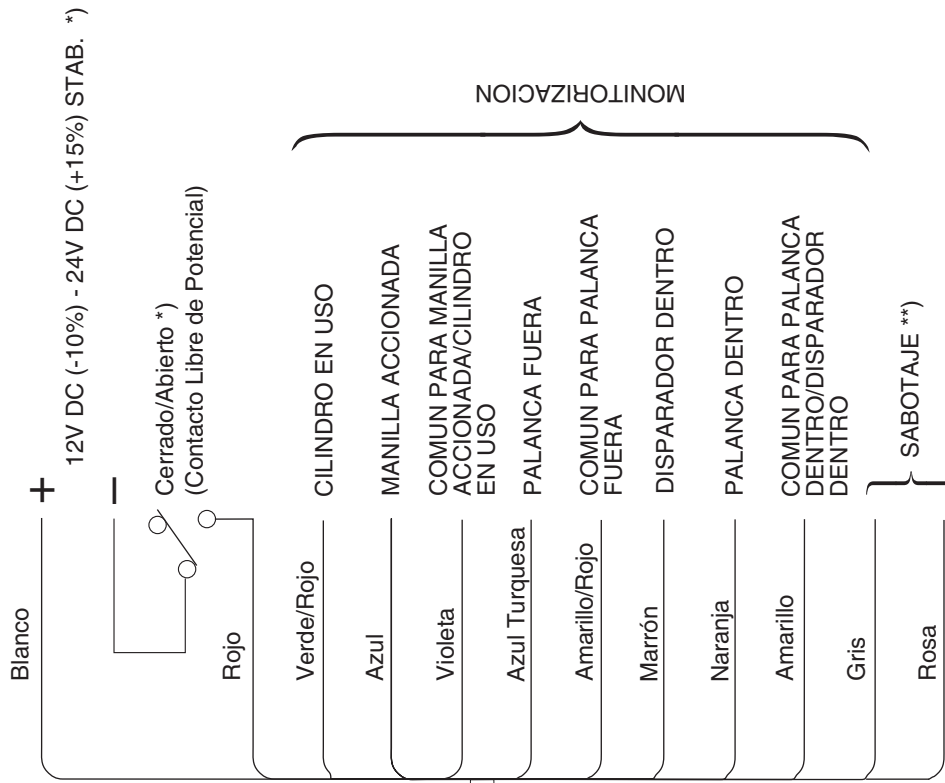
- Cilindro no en uso
- Manilla no accionada
- Palanca fuera
- Disparador dentro
- Palanca dentro



### ¡ATENCIÓN!

No utilice la señal de Manilla en Uso para el control de la cerradura. Su finalidad es exclusivamente la de Control de Accesos y Prevención de la Alarma Antirrobo.

\*) No valido para cerraduras con micro



\*\*) El circuito libre de potencial se cierra cuando se conecta el cable a la cerradura.



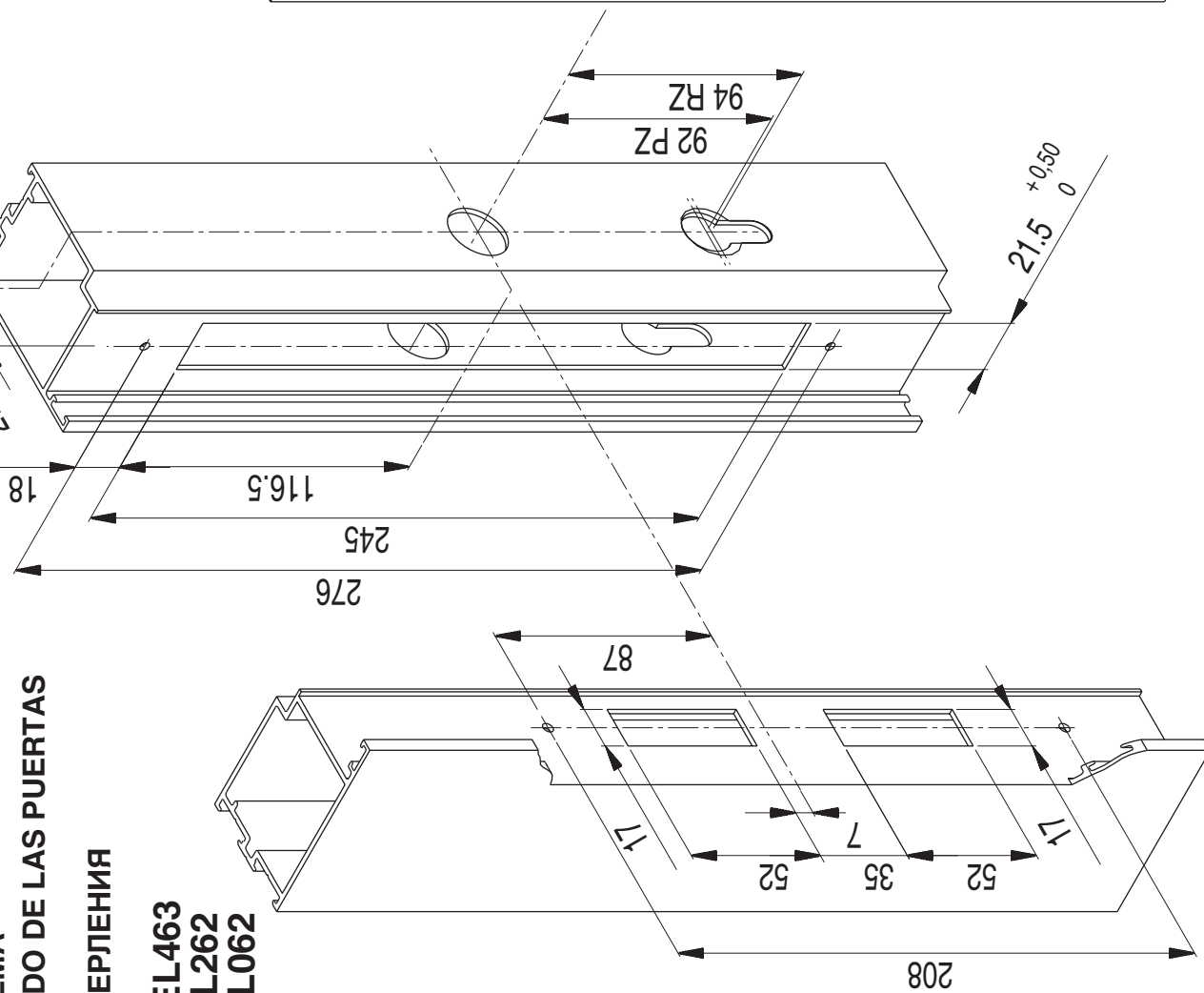
**DRILLING SCHEME  
BOHRSCHEMA**

**MECANIZADO DE LAS PUERTAS  
SCHEMA**

**СХЕМА СВЕРЛЕНИЯ**

**EL460 - EL463  
EL260, EL262  
EL060, EL062**

27 | 32 | 37 | 42



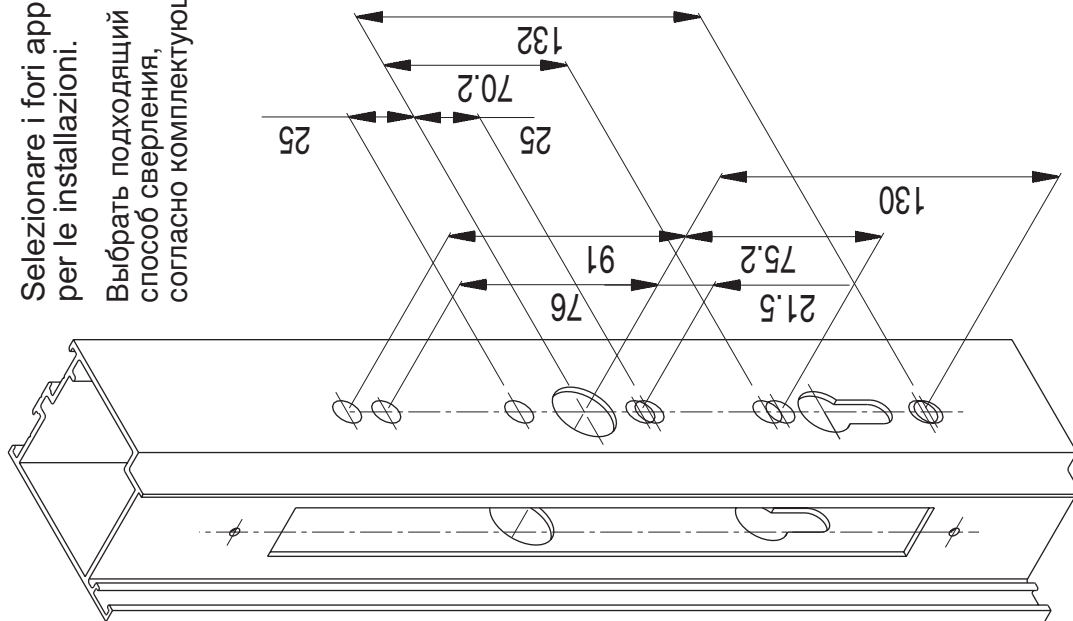
Select suitable drillings according to fittings.

Wählen Sie die passenden Bohrungen für die Montage

Seleccione los agujeros adecuados en función de la manilla elegida.

Selezionare i fori appropriati per le installazioni.

Выбрать подходящий способ сверления, согласно комплектующих.





**DRILLING SCHEME**  
**BOHRSCHEMA**  
**MECANIZADO DE LAS PUERTAS**  
**SCHEMA**  
**СХЕМА СВЕРЛЕНИЯ**

**EL560 - EL563**  
**EL360, EL362**  
**EL160, EL162**

Select suitable drillings according to fittings.

Wählen Sie die passenden Bohrungen für die Montage  
 Perçage approprié selon les installations

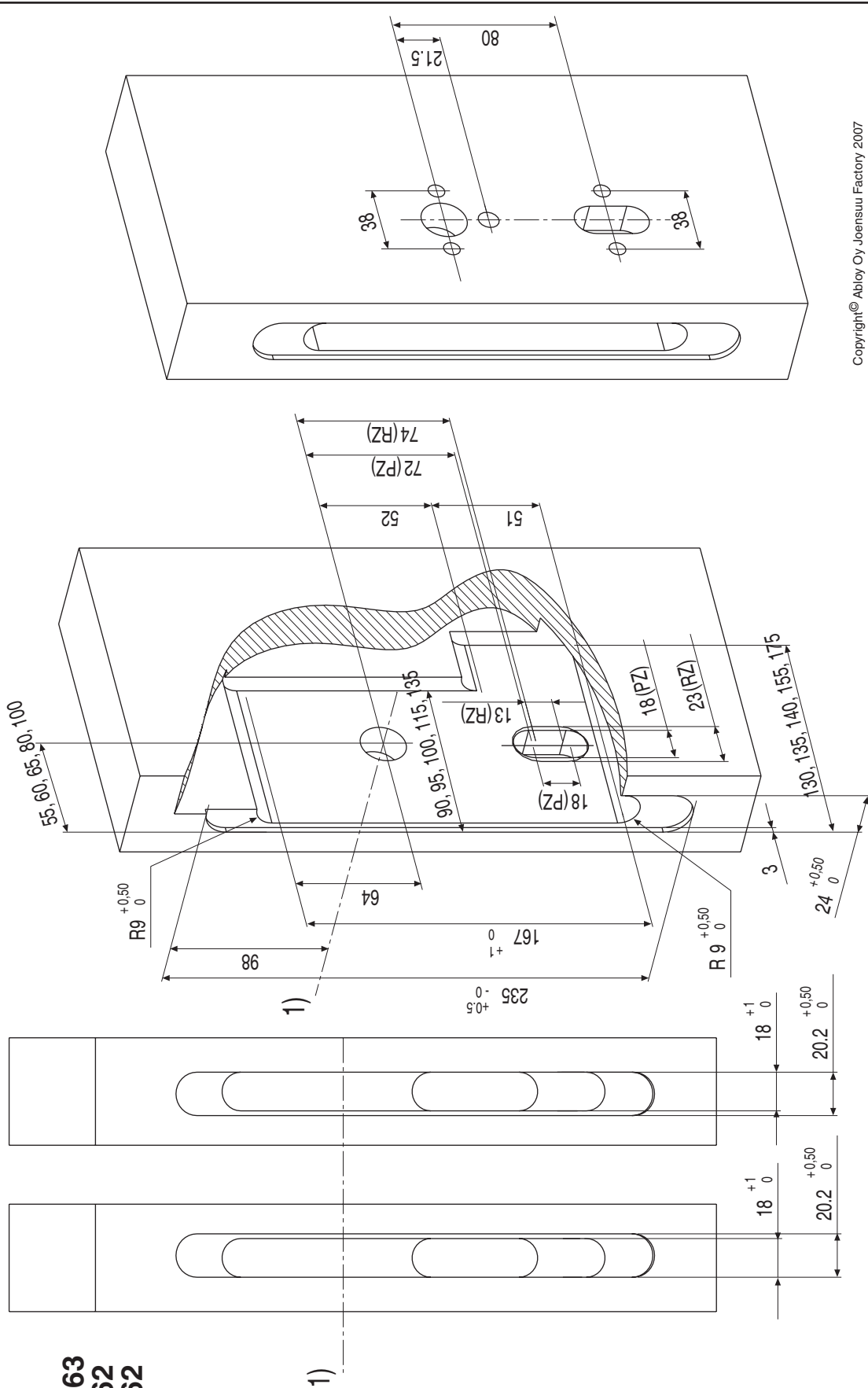
Forend 24mm

Forend 20mm right

Forend 20mm left

Selezionare i fori appropriati per le installazioni.

Выбрать подходящий способ сверления, согласно комплекующих.

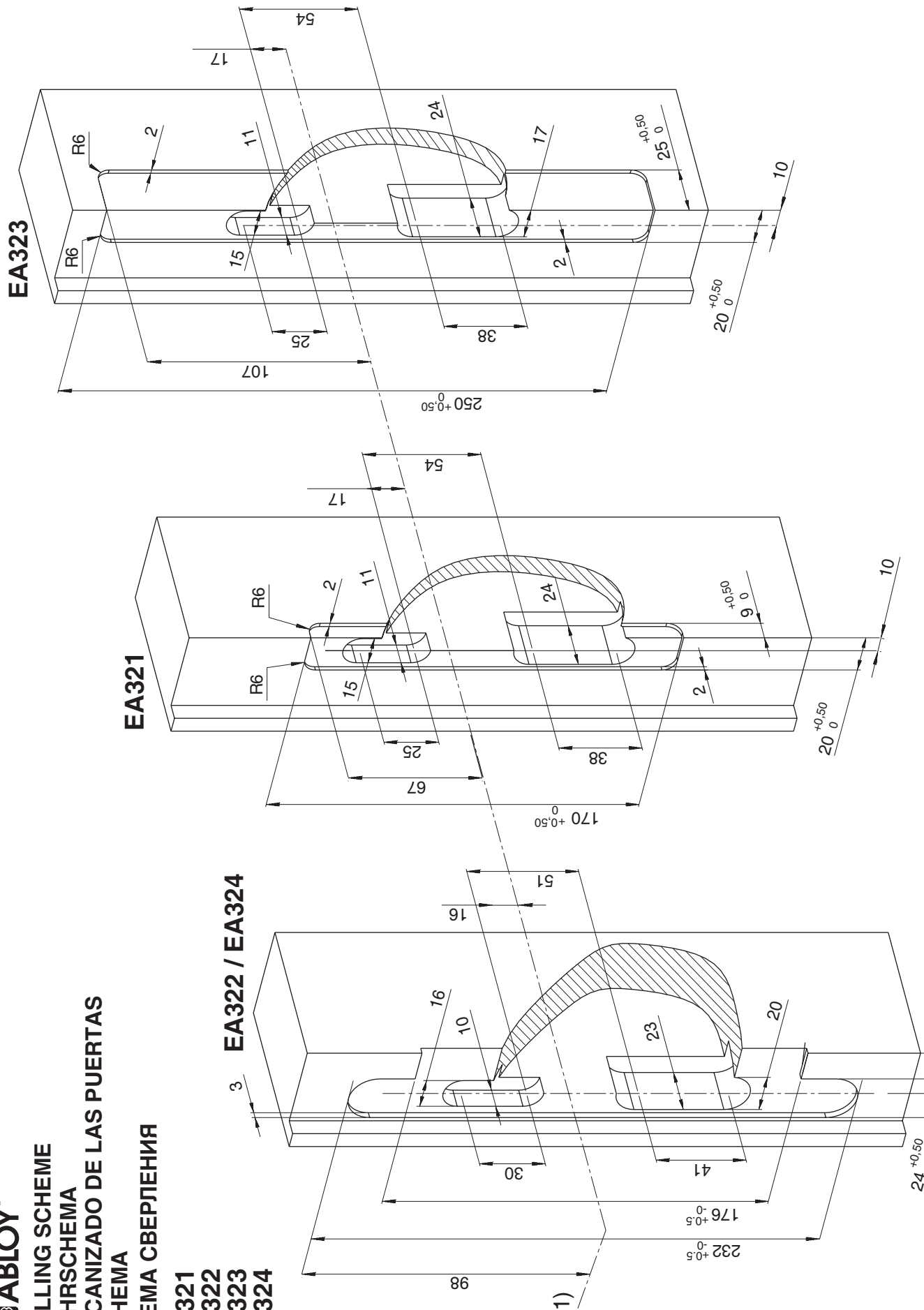




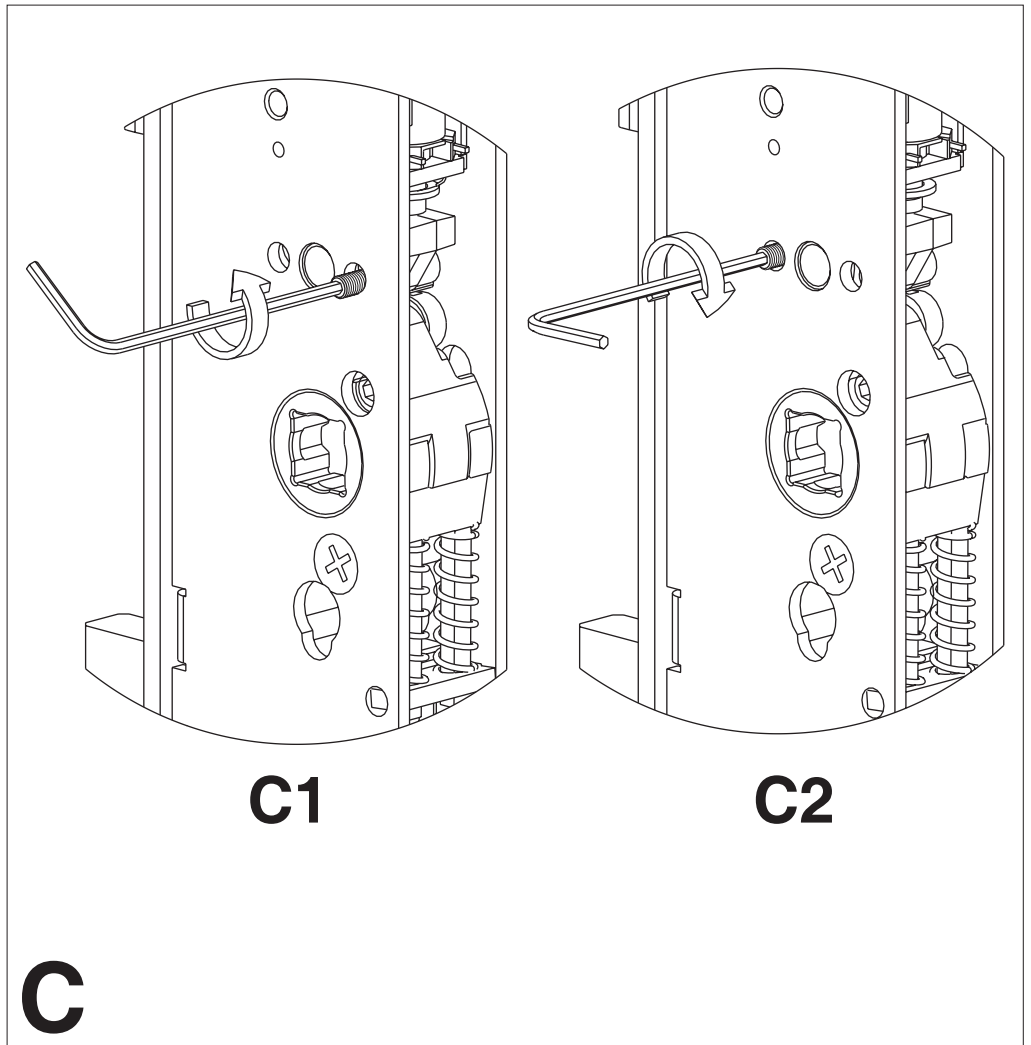
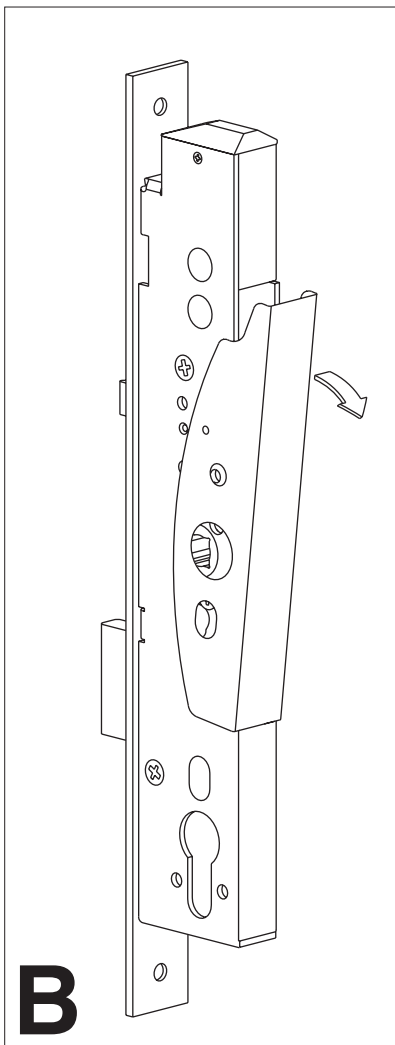
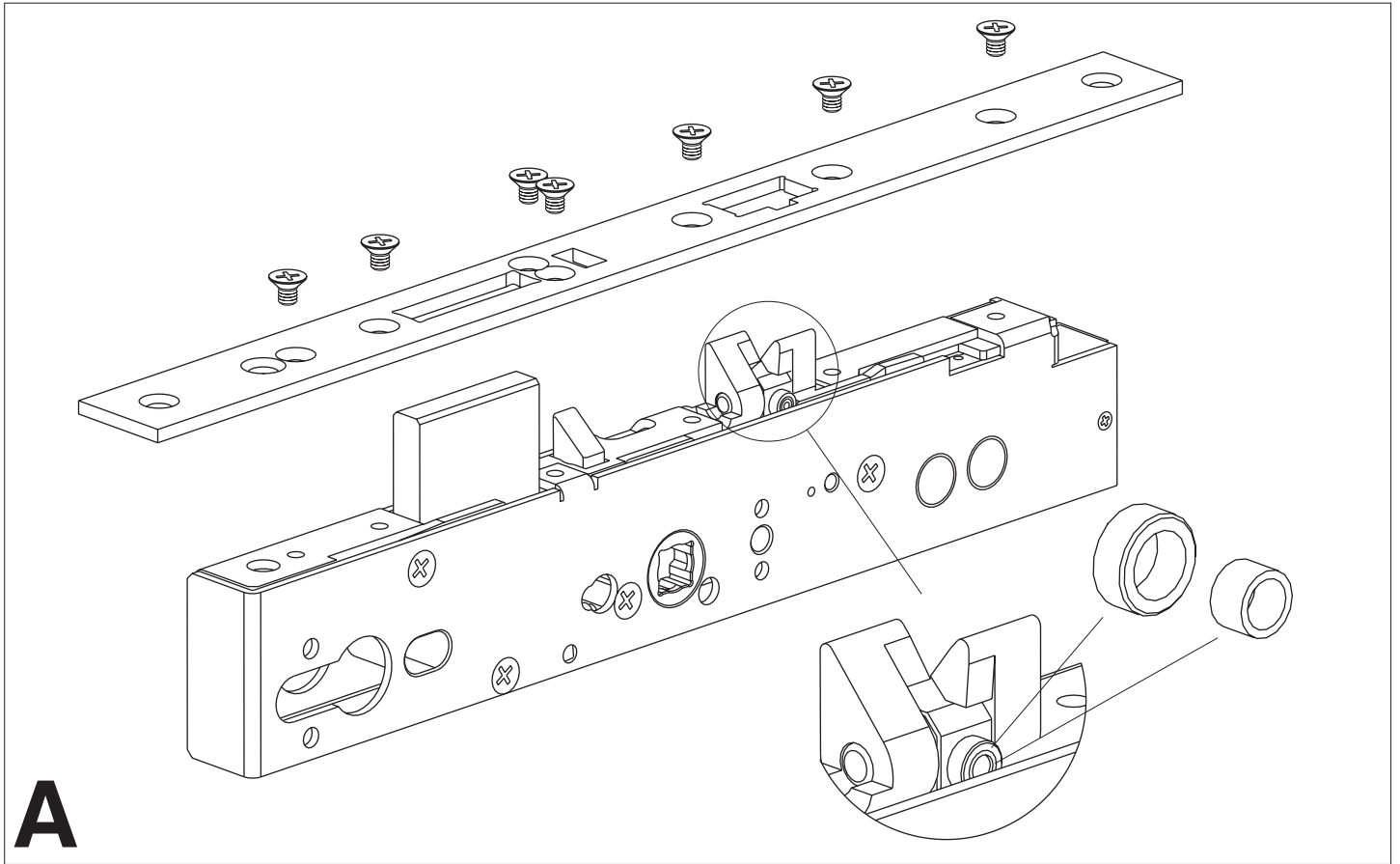
**DRILLING SCHEME**  
**BOHRSCHEMA**  
**MECANIZADO DE LAS PUERTAS**  
**SCHEMA**  
**СХЕМА СВЕРЛЕНИЯ**

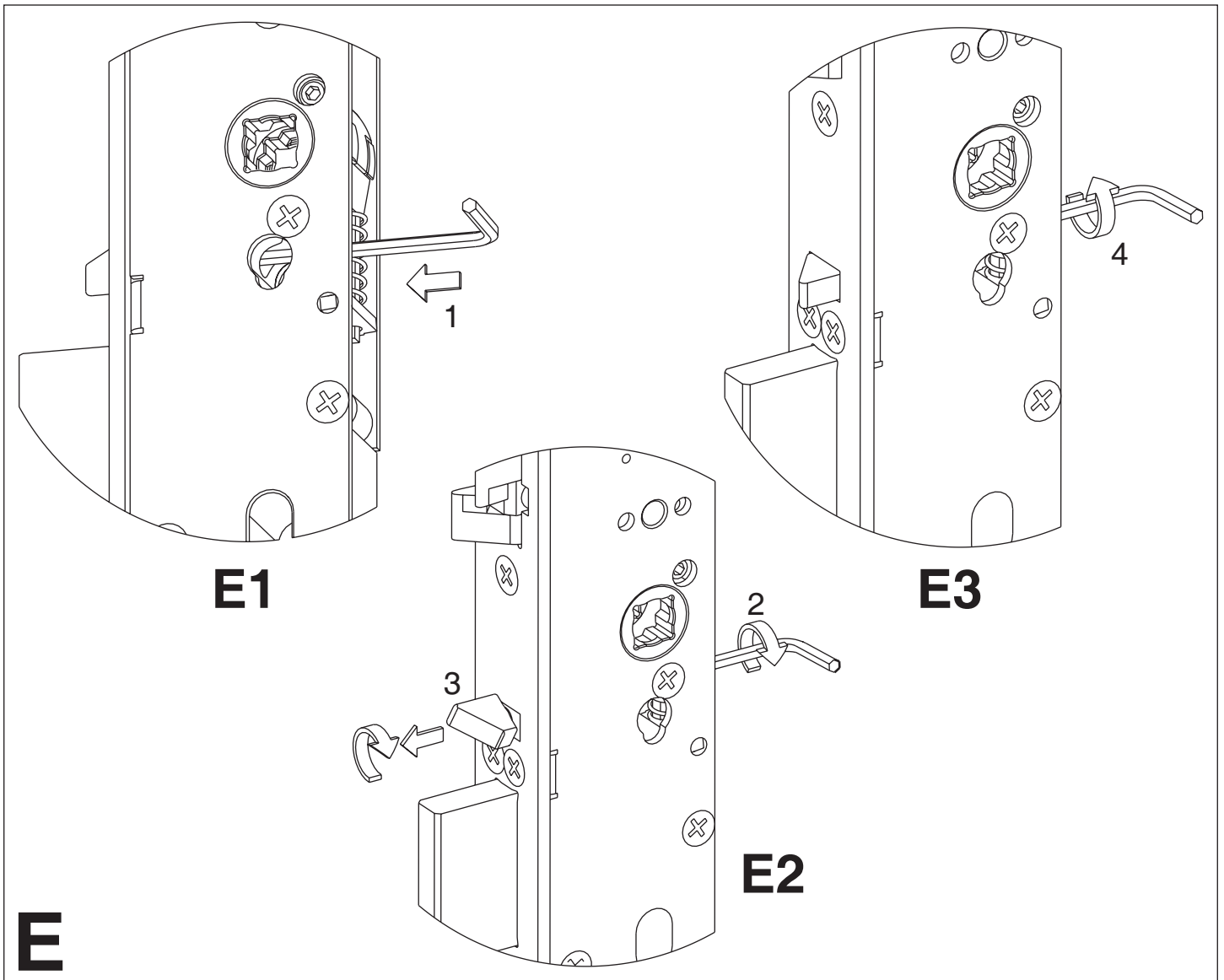
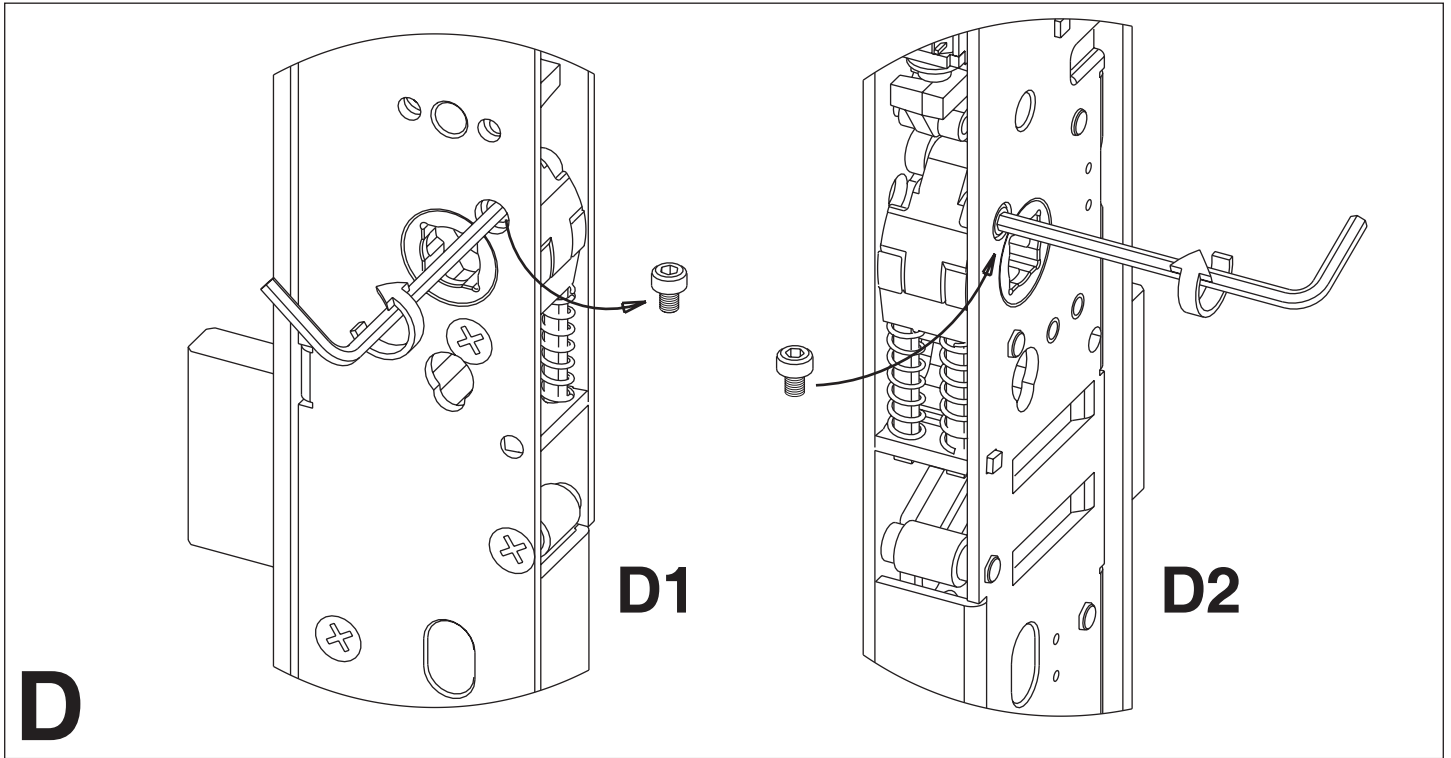
**EA321**  
**EA322**  
**EA323**  
**EA324**

**EA322 / EA324**

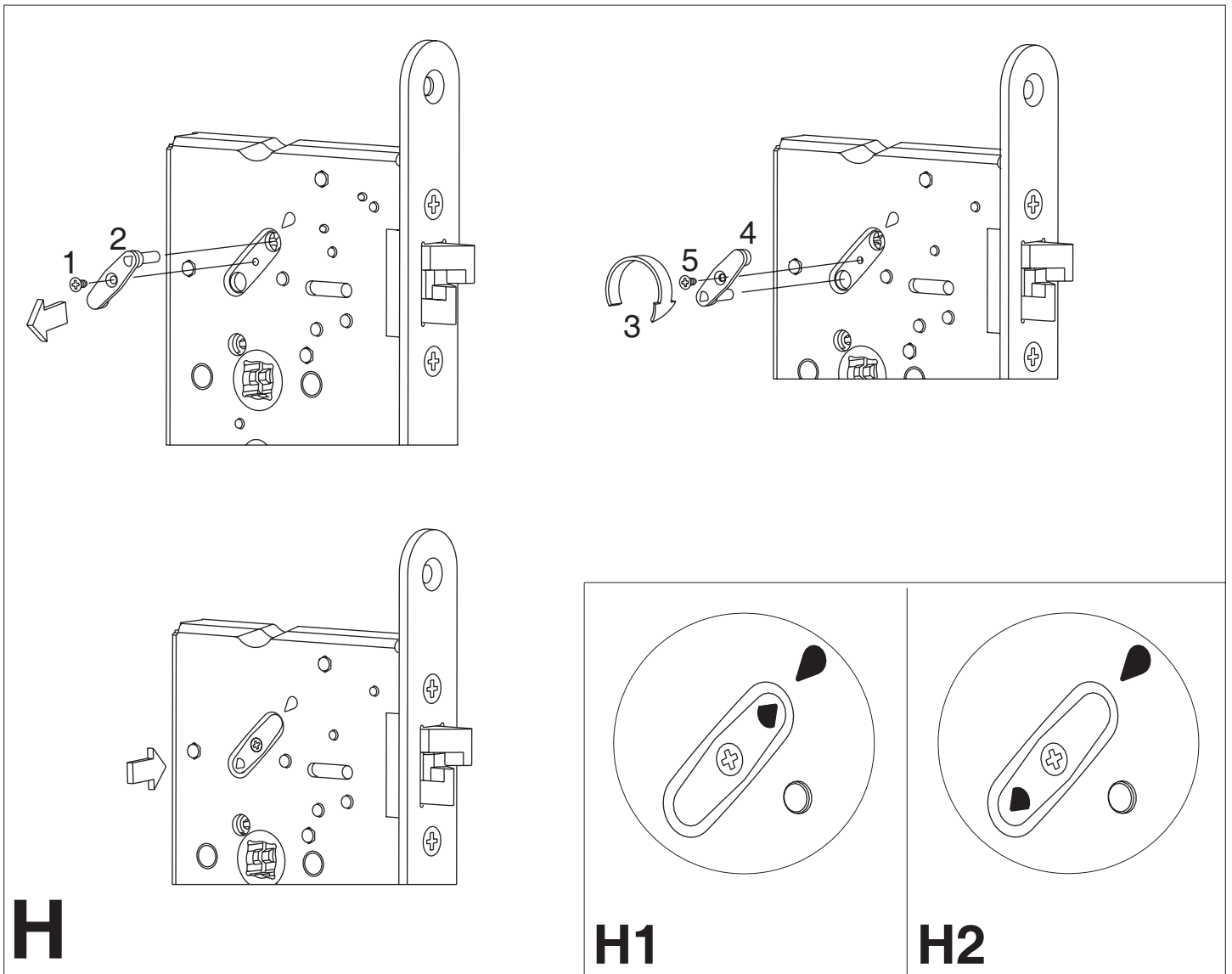
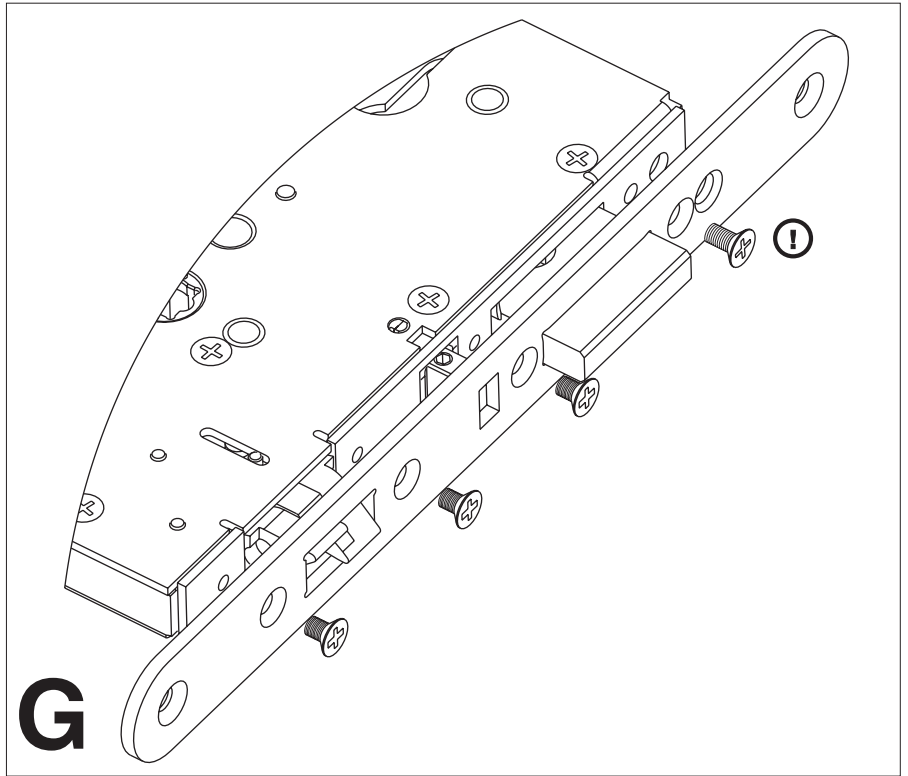
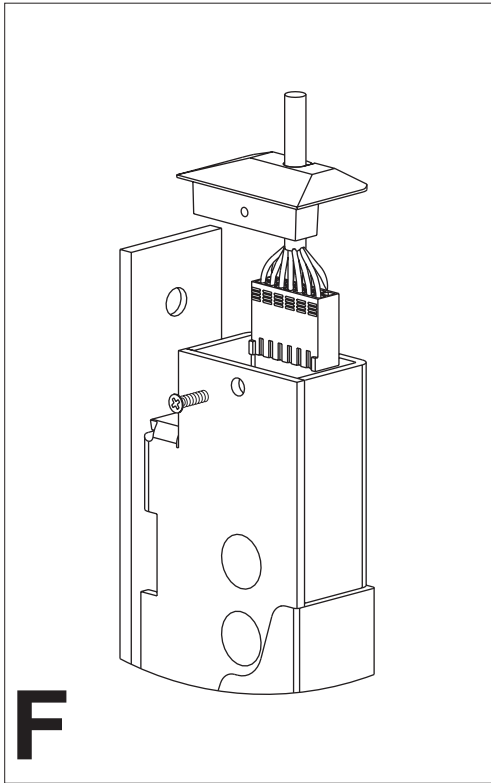


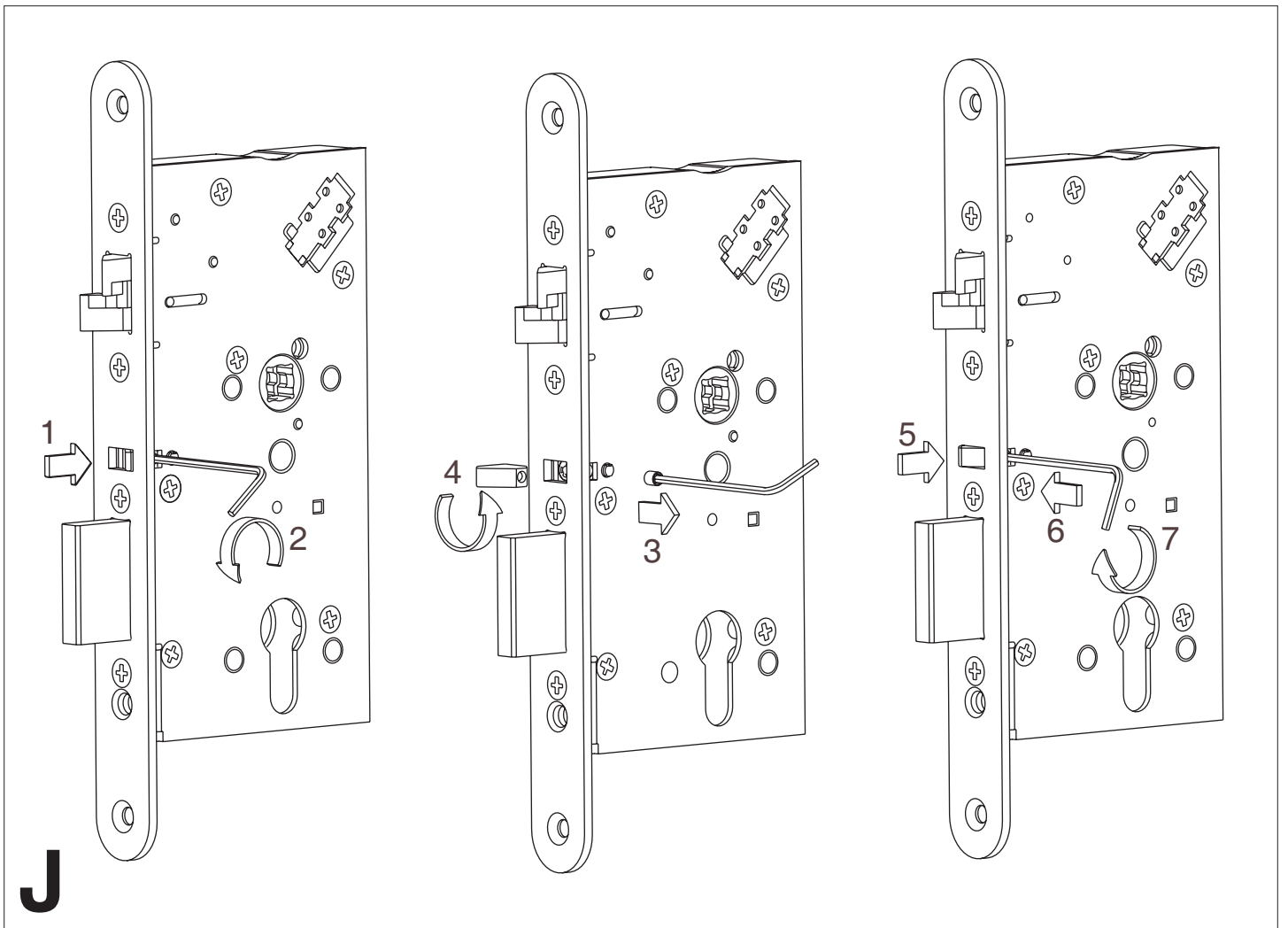
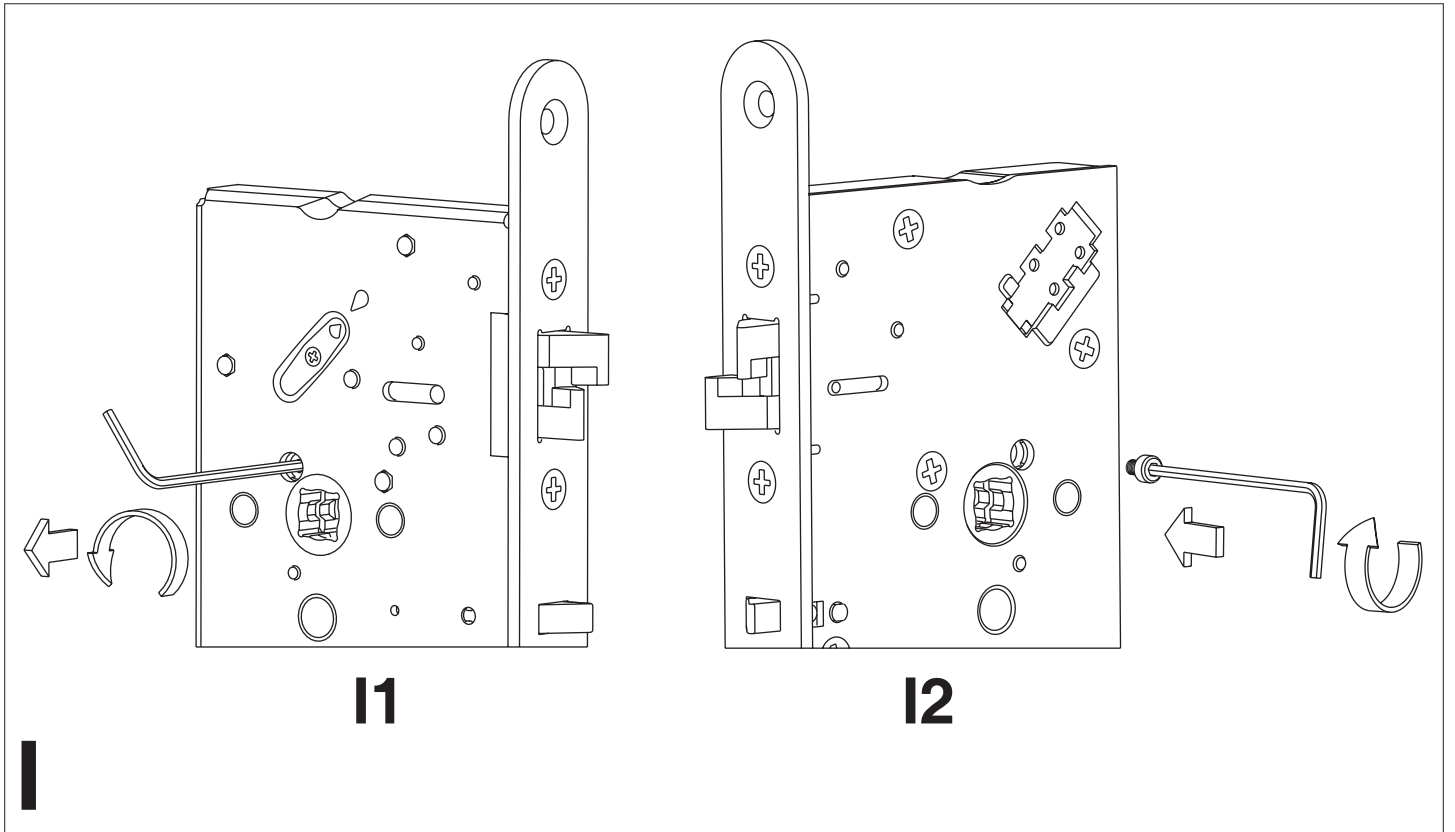
\*) EA324











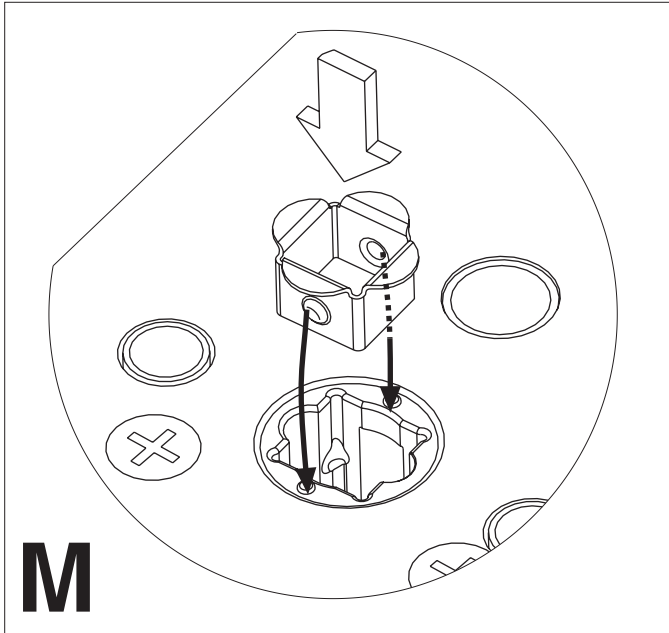
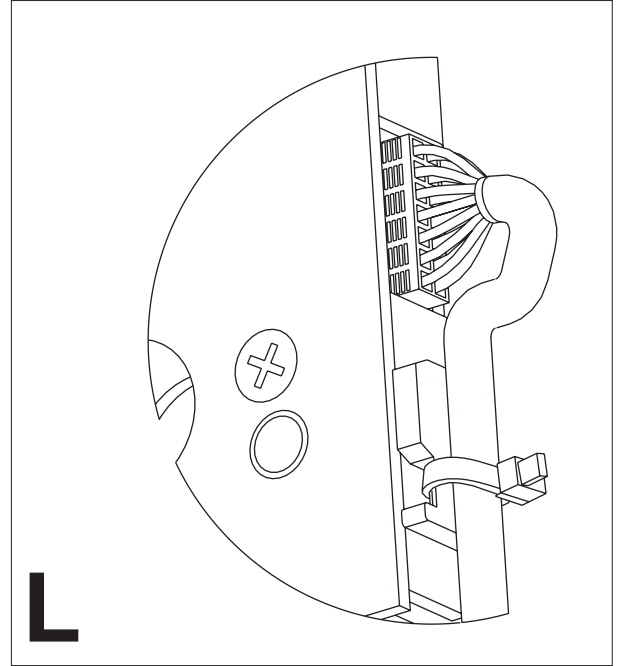
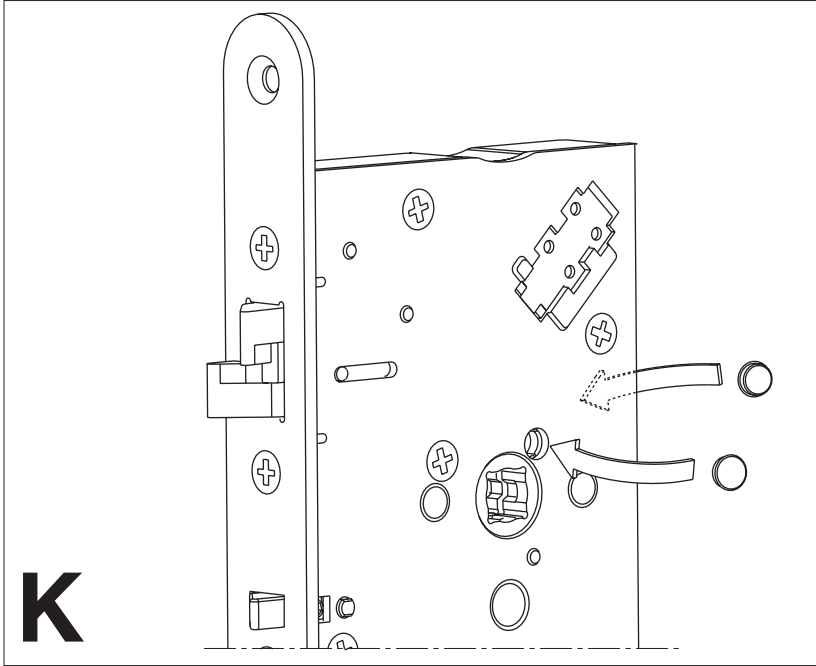
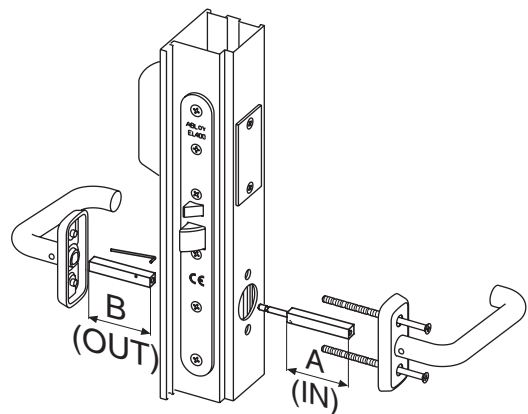


Table N

| A(IN) | B(OUT) | Ø    |              |
|-------|--------|------|--------------|
| 47 mm | 50 mm  | 8 mm | EA288 001000 |
| 57 mm | 50 mm  | 8 mm | EA288 002000 |
| 67 mm | 60 mm  | 8 mm | EA288 003000 |
| 77 mm | 50 mm  | 8 mm | EA288 004000 |

| A(IN) | B(OUT) | Ø    |              |
|-------|--------|------|--------------|
| 47 mm | 50 mm  | 9 mm | EA289 001000 |
| 57 mm | 50 mm  | 9 mm | EA289 002000 |
| 67 mm | 60 mm  | 9 mm | EA289 003000 |
| 77 mm | 50 mm  | 9 mm | EA289 004000 |



**N**

