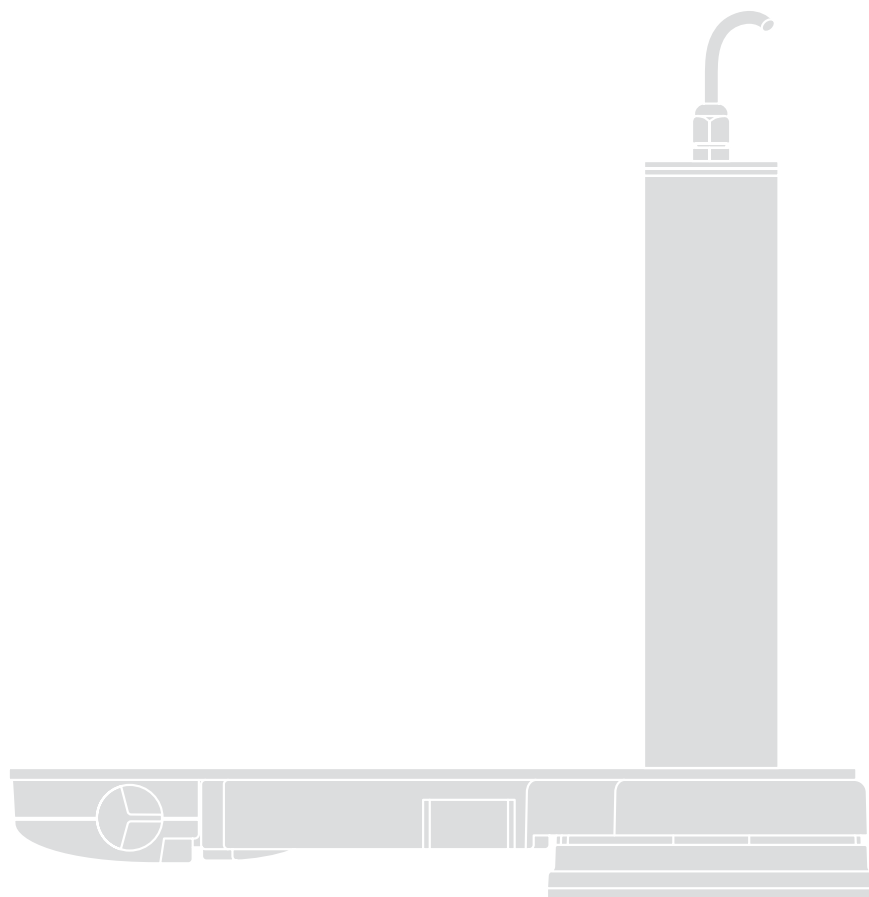


Nice

CE

OLTRE1824



Integrated motor for swing gate

EN - Instructions and warnings for installation and use

IT - Istruzioni ed avvertenze per l'installazione e l'uso

FR - Instructions et avertissements pour l'installation et l'utilisation

ES - Instrucciones y advertencias para la instalación y el uso

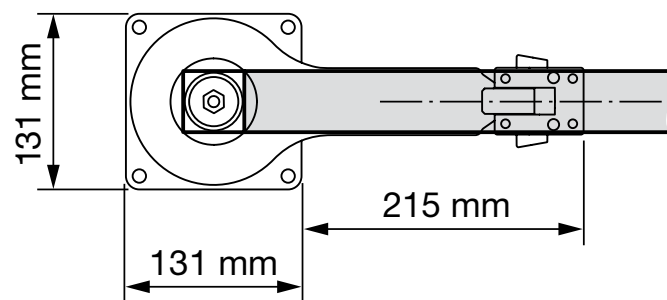
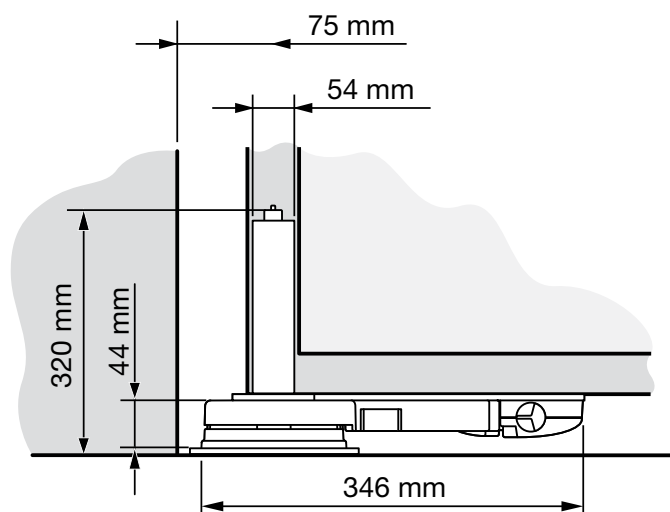
DE - Installierungs-und Gebrauchsanleitungen und Hinweise

PL - Instrukcje i ostrzeżenia do instalacji i użytkowania

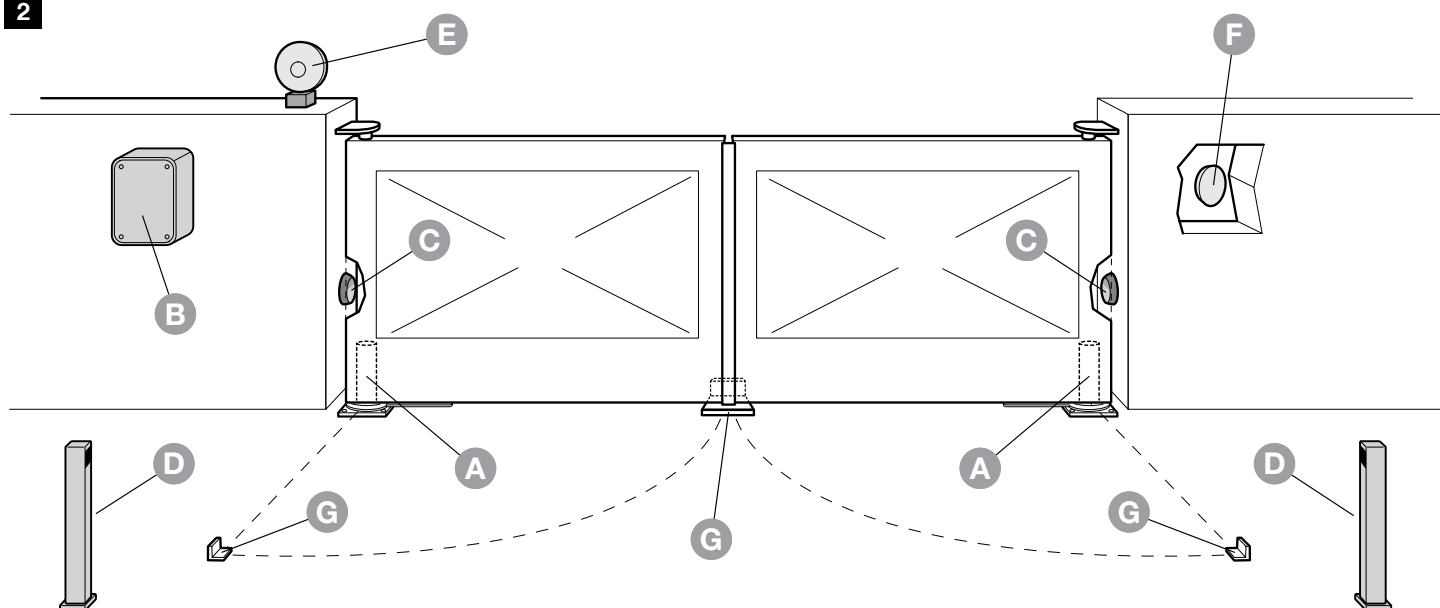
NL - Aanwijzingen en aanbevelingen voor installatie en gebruik

Nice

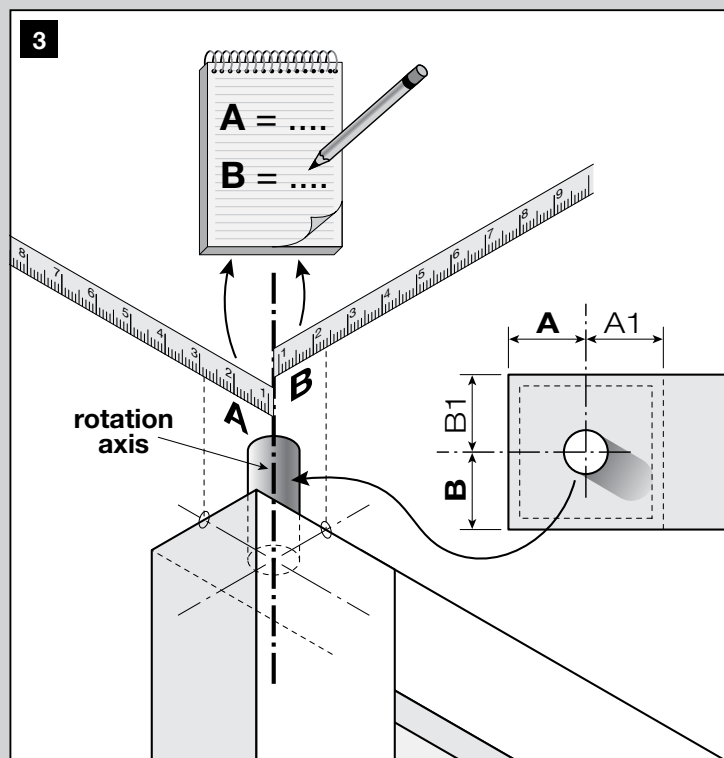
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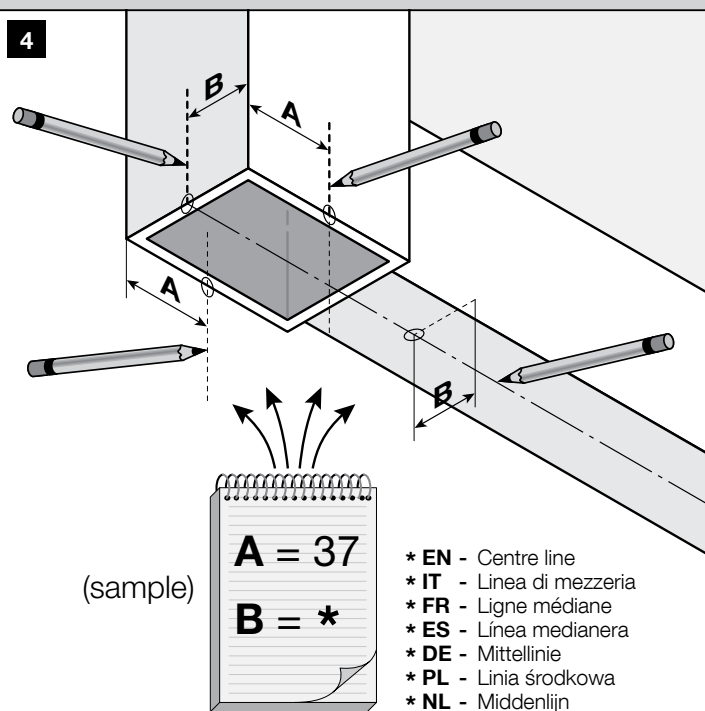
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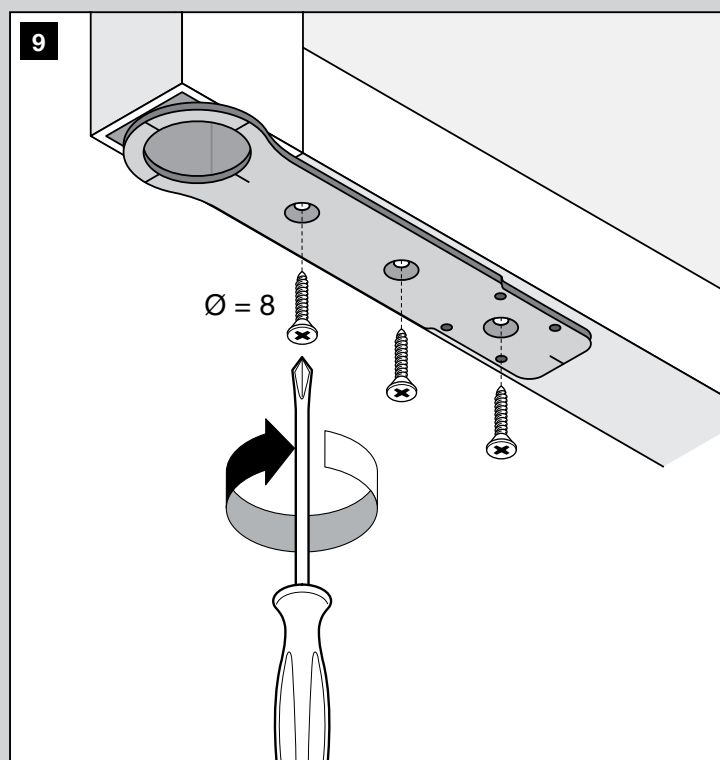
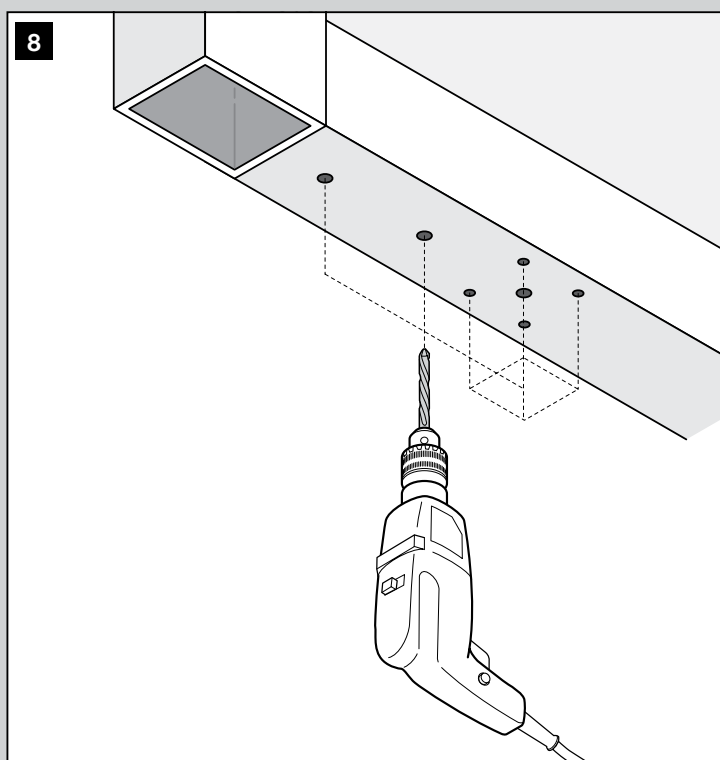
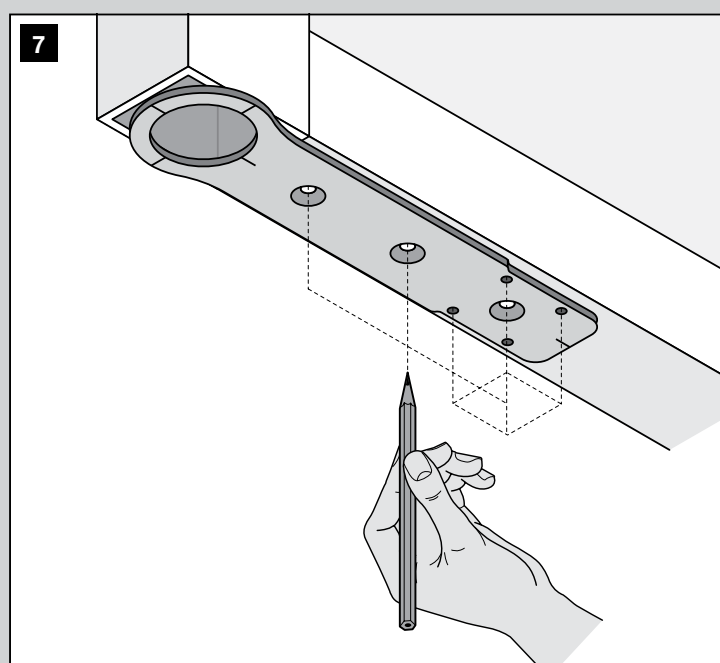
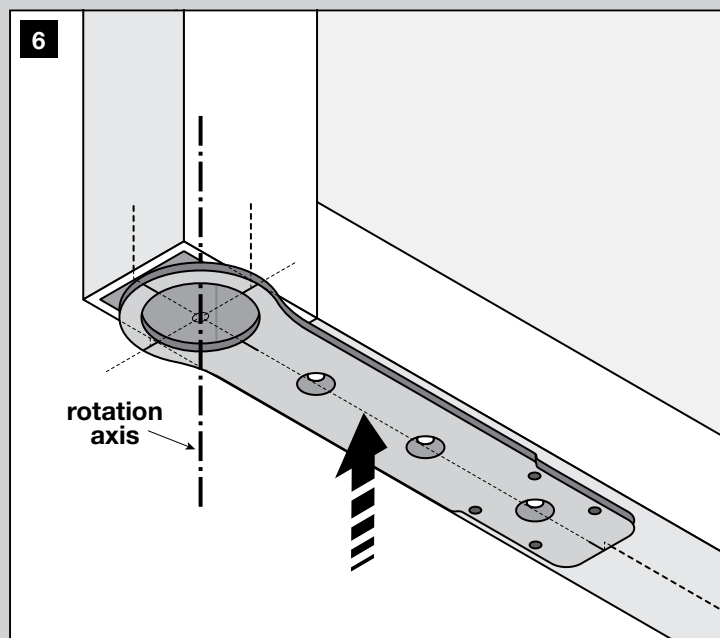
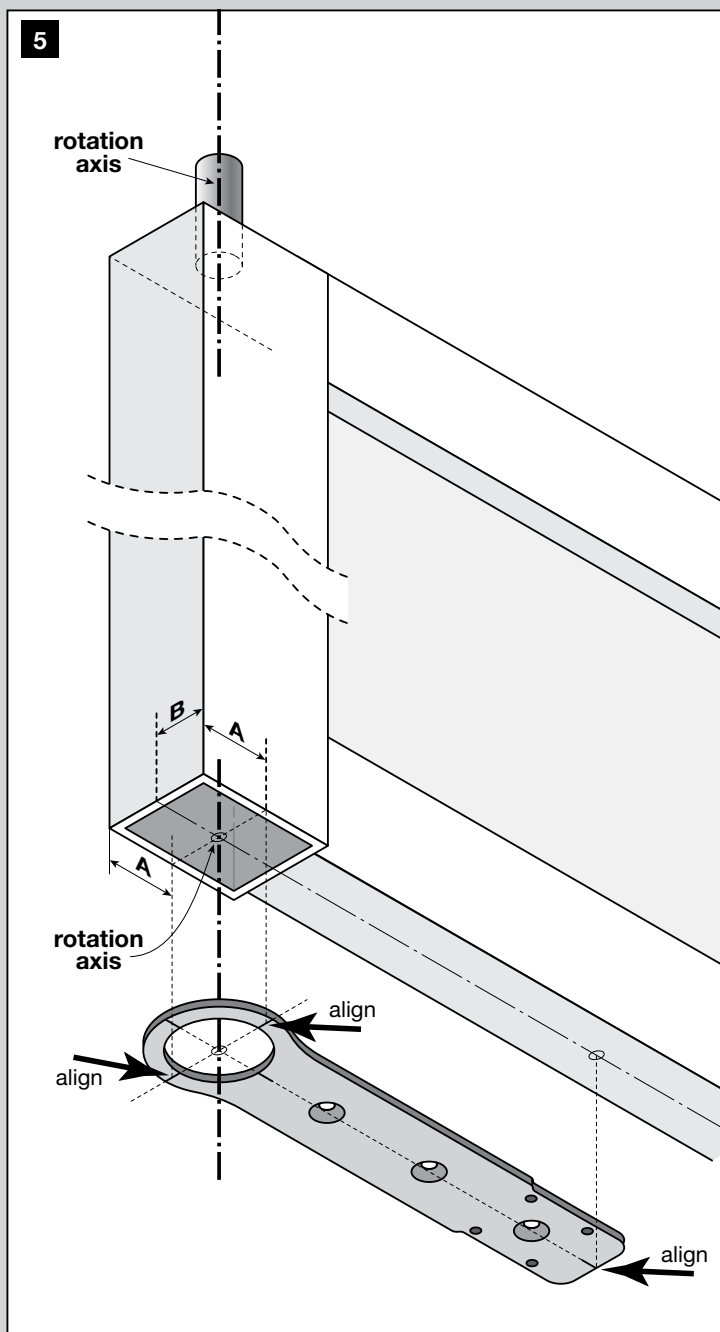


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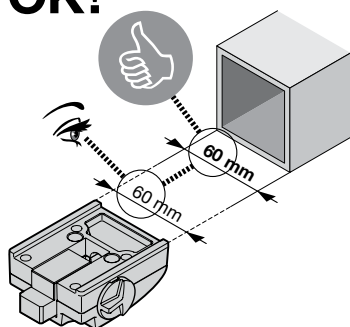
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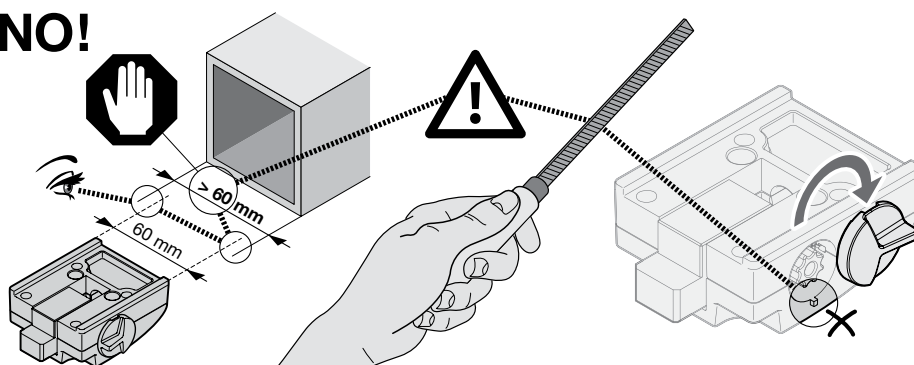
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10

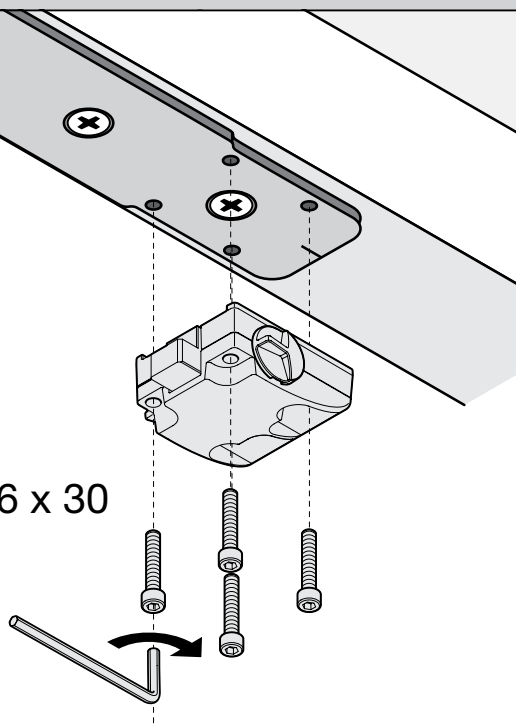
optional

NO!



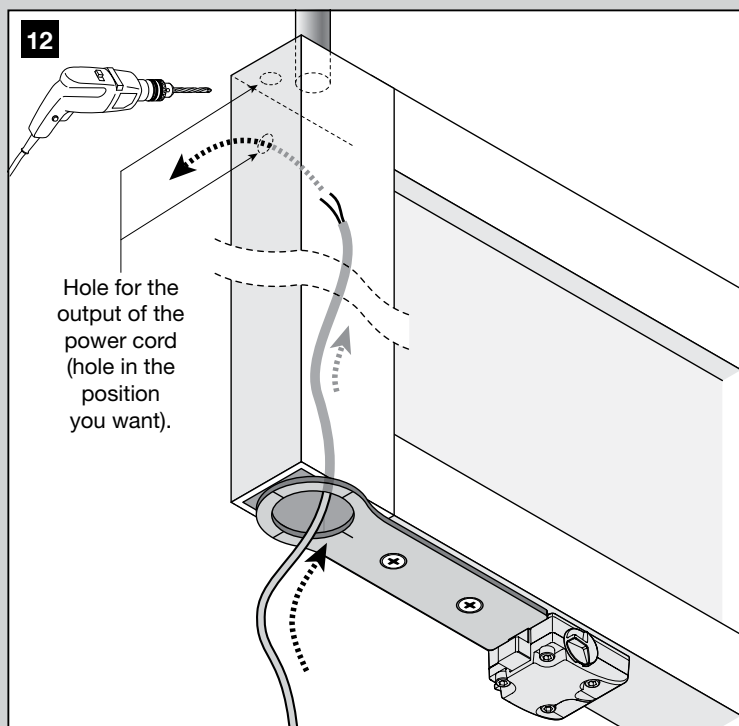
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M6 x 30

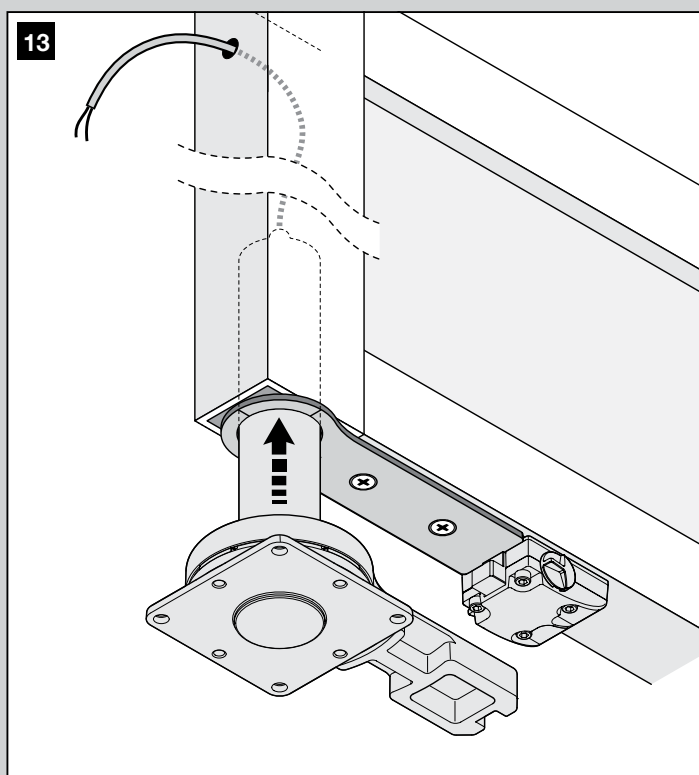


12

Hole for the
output of the
power cord
(hole in the
position
you want).

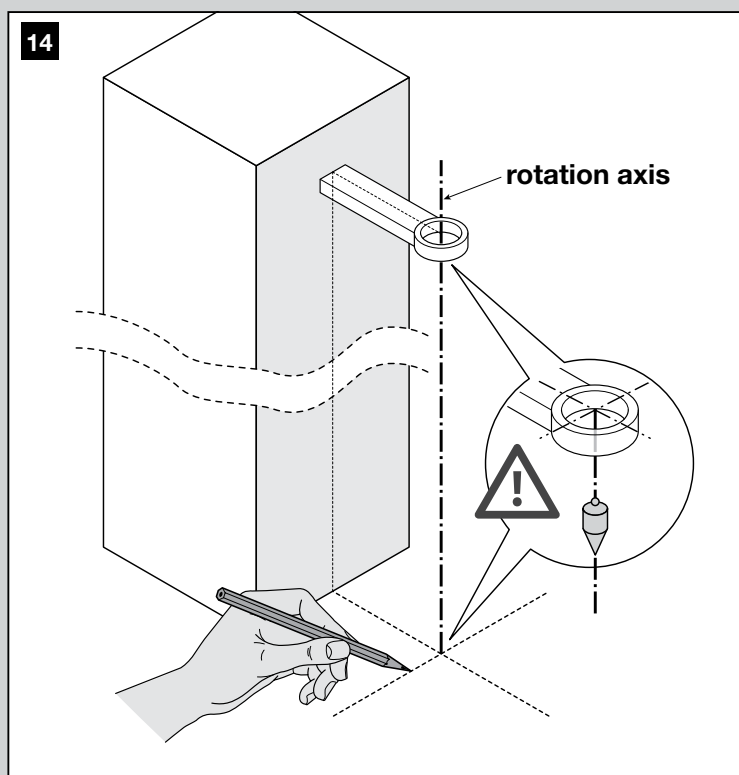


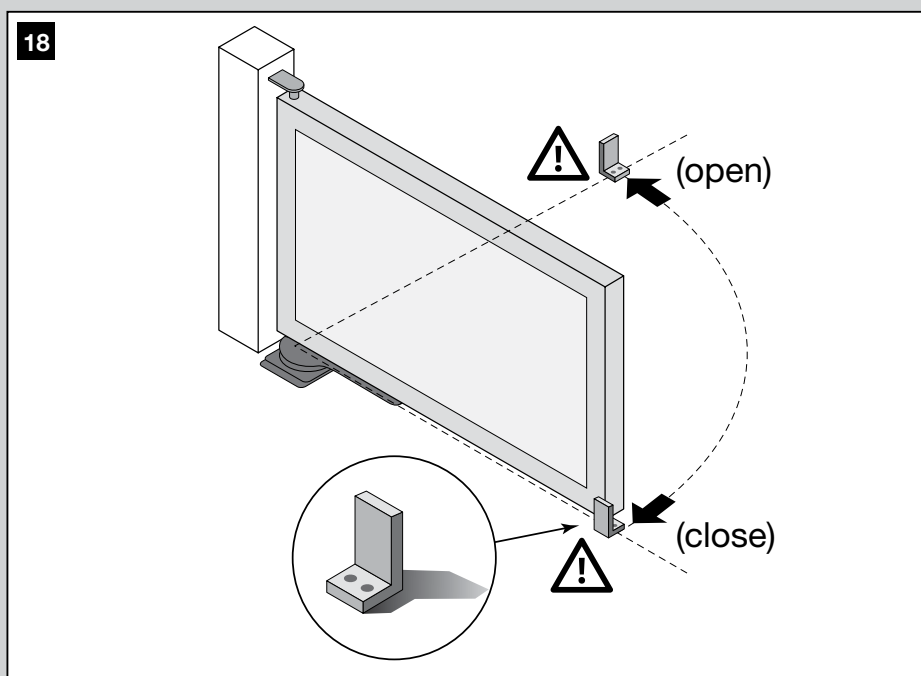
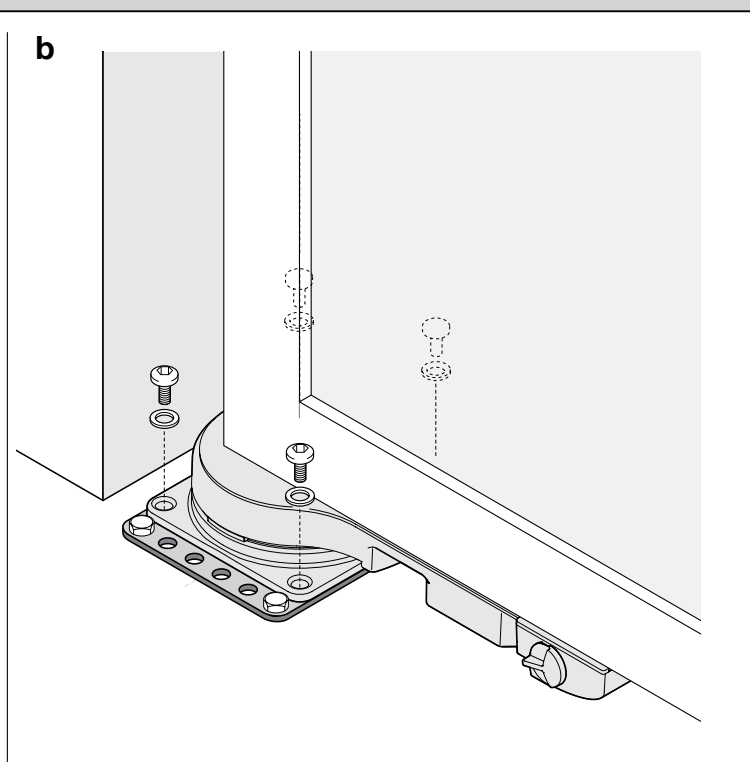
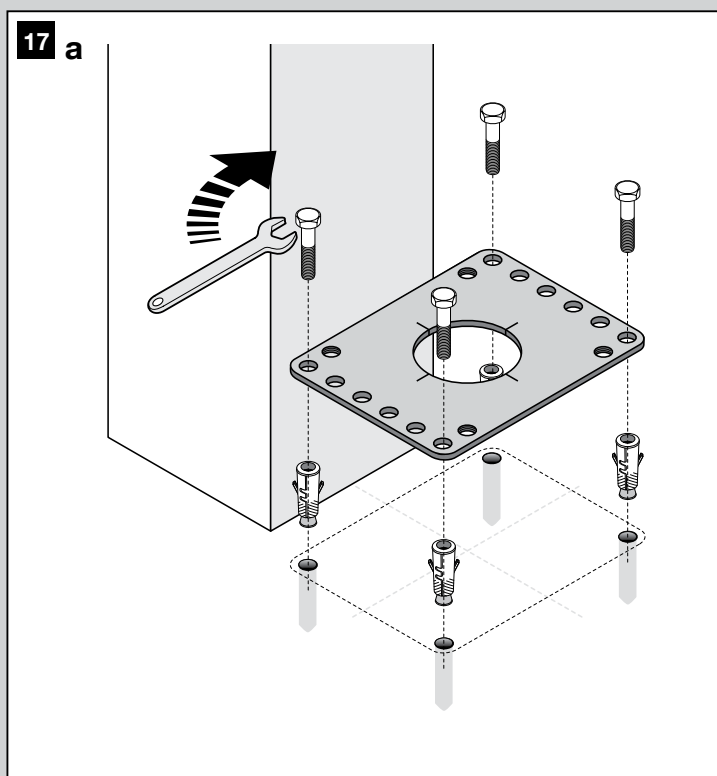
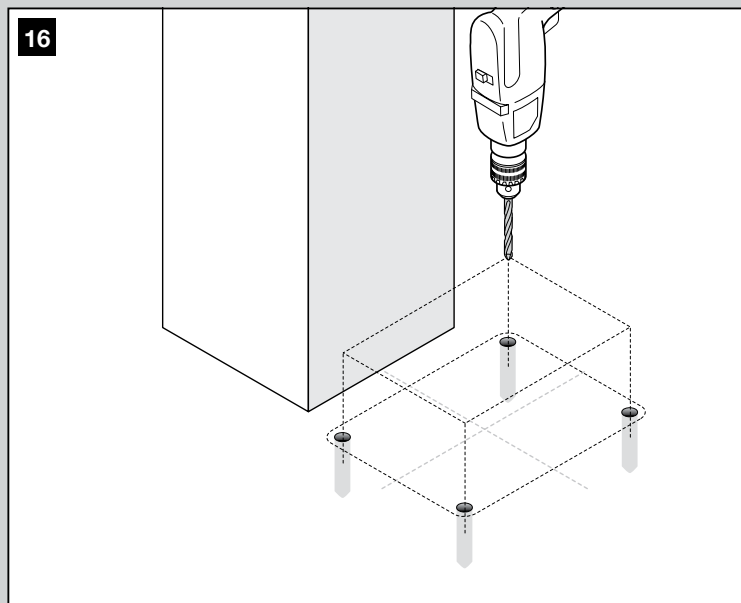
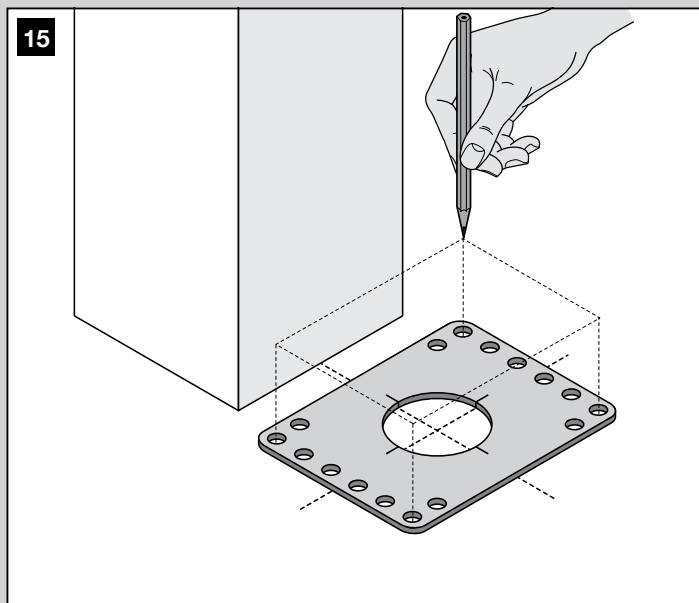
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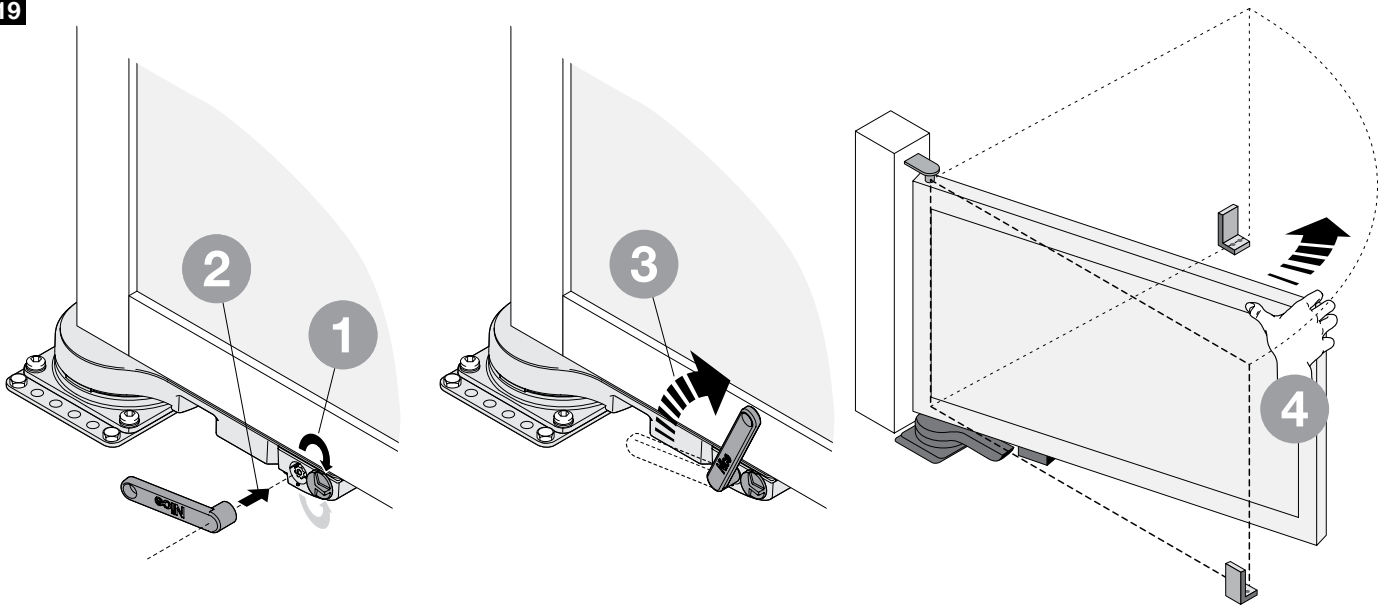
14

rotation axis

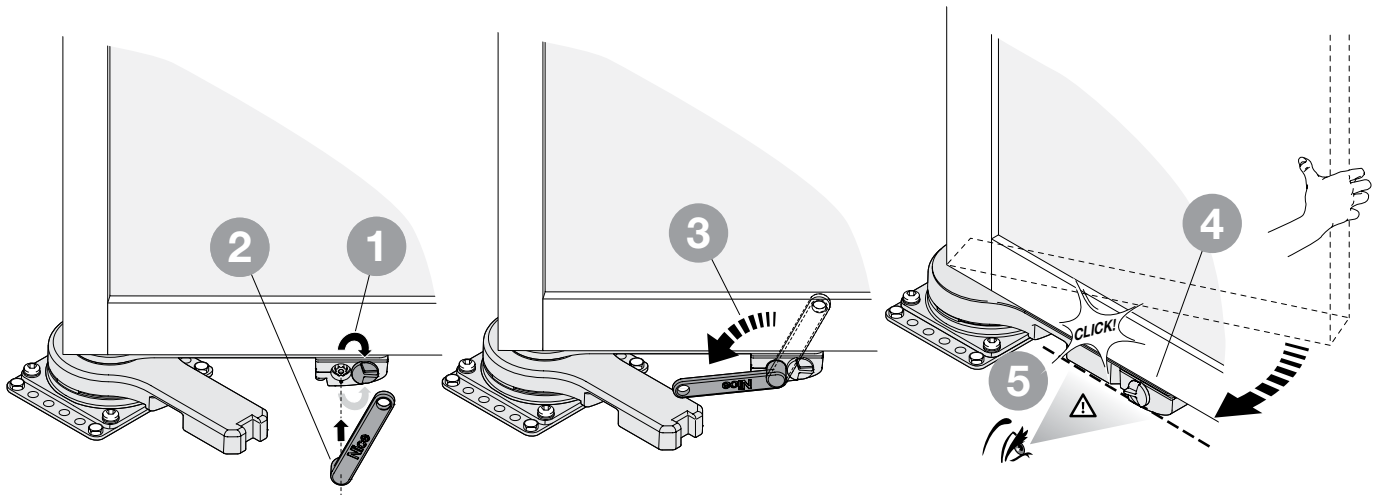




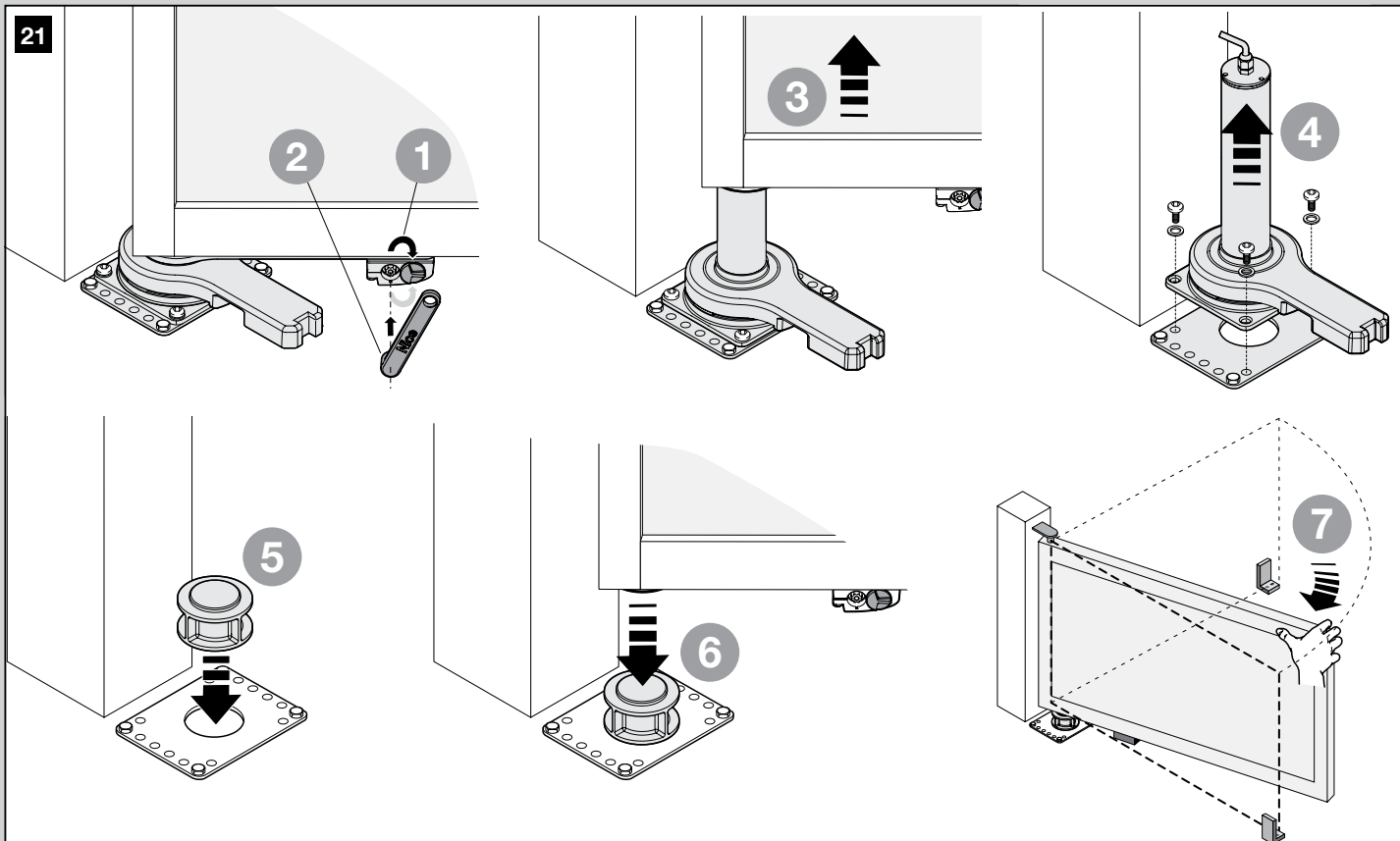
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20



21



1 GENERAL SAFETY WARNINGS AND PRECAUTIONS

GENERAL WARNINGS

CAUTION - Important safety instructions. Observe all the instructions as improper installation may cause serious damage

CAUTION - Important safety instructions. It is important to comply with these instructions to ensure personal safety. Store these instructions

- Before commencing the installation, check the "Product technical specifications", in particular whether this product is suitable for automating your guided part. Should it be unsuitable, DO NOT proceed with the installation
- The product cannot be used before it has been commissioned as specified in the "Testing and commissioning" chapter

CAUTION - According to the most recent European legislation, the implementation of an automation system must comply with the harmonised standards set forth in the Machinery Directive in force, which allow for declaring the presumed conformity of the automation. On account of this, all operations regarding connection to the mains electricity, as well as product testing, commissioning and maintenance, must be performed exclusively by a qualified and skilled technician!

- Before proceeding with the product's installation, check that all materials are in good working order and are suitable for the intended applications
- The product is not intended for use by persons (including children) with reduced physical, sensory or mental capacities, nor by anyone lacking sufficient experience or familiarity with the product
- Children must not play with the appliance
- Do not allow children to play with the control devices of the product. Keep the remote controls out of reach of children

CAUTION - In order to avoid any danger from inadvertent resetting of the thermal cut-off device, this appliance must not be powered through an external switching device, such as a timer, or connected to a supply that is regularly powered or switched off by the circuit

- Provide a disconnection device (not supplied) in the plant's mains power supply, with a contact opening distance that ensures complete disconnection under the conditions envisaged by Overvoltage Category III
- Handle the product with care during installation, taking care to avoid crushing, knocks, falls or contact with liquids of any kind. Keep the product away from sources of heat and open flames. Failure to observe the above can damage the product and increase the risk of danger or malfunctions. If this should happen, stop installation immediately and contact the Customer Service
- The manufacturer assumes no liability for damage to property, items or persons resulting from non-compliance with the assembly instructions. In such cases the warranty does not cover material defects
- The weighted sound pressure level of the emission A is lower than 70 dB(A)
- Cleaning and maintenance to be carried out by the user must not be effected by unsupervised children
- Before intervening on the system (maintenance, cleaning), always disconnect the product from the mains power supply
- Check the system periodically, in particular all cables, springs and supports to detect possible imbalances, signs of wear or damage. Do not use if repairs or adjustments are necessary, because a failure with the installation or an incorrectly balanced automated system may lead to injury
- The packaging materials of the product must be disposed of in compliance with local regulations
- Keep persons away from the gate when it is moved through the control elements
- When performing a manoeuvre, keep an eye on the automated mechanism and keep all bystanders at a safe distance until the movement has been completed
- Do not operate the automation if anyone is working on it; disconnect the power supply before permitting any work to be carried out

INSTALLATION WARNINGS

- Prior to installing the drive motor, check that all mechanical components are in good working order and properly balanced, and that the automation moves correctly
- If the gate being automated has a pedestrian door, the system must include a control device inhibiting the operation of the motor when the pedestrian door is open
- Make sure that the controls are kept at a safe distance from moving parts, while allowing a good view of these.

Unless a selector is used, the controls should be installed at least 1.5 m from the ground and must not be accessible

- If the opening movement is controlled by a fire-prevention system, make sure that any windows larger than 200 mm are closed by the control elements
- Prevent and avoid any form of trapping between the moving and fixed parts during manoeuvres
- Permanently affix the manual operation label next to the element enabling the manoeuvre itself
- After installing the drive motor, make sure that the mechanism, protective system and all manual manoeuvres operate properly

2 DESCRIPTION OF THE PRODUCT AND DESTINATION OF USE

This product is intended to automate gates and doors with hinged leaves, exclusively for residential use.

ATTENTION! – Any use different to that described and in environmental conditions different to those stated in this manual must be considered improper and prohibited!

The product is an electromechanical device that is placed inside the hollow structure of the gate leaf; the part that protrudes from the lower part of the gate leaf must be fixed to the ground. It is supplied with a 24 V DC motor that is powered by the external control unit to which it must be connected. In the event of a power outage (black-out), the gate can be moved manually by releasing the gearmotor from the gate using the key provided. For information on how to release the gate and move it manually, see **paragraph 3.6**.

3 INSTALLATION

3.1 - Preliminary checks on installation

Before performing installation, check the integrity of the product components, the adequacy of the model chosen and the suitability of the environment destined for installation.

IMPORTANT – The gearmotor cannot be used to power a gate that does not have an efficient and safe mechanical structure. Moreover, it cannot solve defects caused by incorrect installation or bad maintenance of the gate itself.

3.2 - Suitability of the gate to automate and the surrounding environment

- Check that the gate mechanical structure is suitable to be automated and complies with the Standards in force on the territory (if necessary, refer to the data given on the gate label).
- Move the gate leaf by hand to its maximum opening and closing position; during movement make sure there is minimum friction and that constant force is used throughout the travel: there must be no points where the friction is greater than elsewhere.
- Move the gate leaf by hand and leave it still at various points along its travel; then make sure that the gate leaf remains in balance, i.e. it does not move.
- Check that the space around the gear motor allows to manually release the gate panels easily and safely.
- Envision end run retainers on the ground both for opening and closure of the gate.
- Check that the gear motor fixing area is compatible with the clearance of the latter (**fig. 1**).

3.3 - Limits of use for the product

- The gate leaf on which the device is to be installed, must not weigh more than 100 kg or exceed 1.80 m in length.
- The gearmotor must only be connected to the **MC824L** control unit.
- Since the gearmotor must be installed inside the gate leaf, the leaf upright (in which the rotation fulcrum is located) must be a hollow profile with a housing space equal to or greater than a diameter of 56 mm.
- It is imperative to install mechanical stops at the preset points for the opening and closing limit switches (these accessories are not included).

3.4 - Set-up for installation

In **Fig. 2** there is an example of a complete installation, built with Nice components. These parts are positioned according to a typical standard layout. Refer to **Fig. 2** to establish the approximate location where each specified component is to be installed, and to decide on the layout of the electrical connections between the components.

Components useful for realising a complete plant (fig. 2):

A - Electro-mechanical gear motors

- B** - Control unit
- C** - Pair of photocells
- D** - Columns for pairs of photocells (C)
- E** - Flashing signal with antenna incorporated
- F** - Digital keyboard / Key selector switch
- G** - Pair of mechanical stops in opening and closure

3.5 - Installation

To install the gearmotor, perform all the steps shown in the figures, starting from **Fig. 1** to **Fig. 18**. You must strictly follow the order as shown.

3.6 - Manual release and block of the gear motor

To release or block the gearmotor, use the lever provided in the following way:

• To release a gate leaf (reference to Fig. 19):

- 01.** Choose the side of the leaf you want to work on.
- 02.** Gain access to the lock by turning its cover 180° (test it to see which way you need to turn it).
- 03.** Insert the lever in the lock and turn it 180° in a clockwise direction.
- 04.** Remove the lever from the lock and put the cover back on the lock.
- 05.** Lastly, move the leaf by hand to its desired position.

• To lock a gate leaf (reference to Fig. 20):

- 01.** Choose the side of the leaf you want to work on.
- 02.** Gain access to the lock by turning its cover 180° (test it to see which way you need to turn it).
- 03.** Insert the lever in the lock and turn it 180° in an anti-clockwise direction.
- 04.** Remove the lever from the lock and put the cover back on the lock.
- 05.** Move the leaf by hand to a position by the lock; finally release it only after hearing the click of the lock (= door locked onto the gearmotor).

4 ELECTRIC CONNECTIONS

Recommendations:

- The gearmotor must only be connected to the **MC824L** control unit.
- The gear motor is supplied with an electric power input cable measuring 3 m. So if you need to cover a greater distance in order to connect it to the MC824L control unit, **it is essential to use a junction box (not supplied) to adequately protect the added sections of electrical cable.**
- **Make the electric connections with the mains power input disconnected.**

To connect the power input cable to the control unit, see the manual regarding the latter and the following indications:

WIRE	CONNECTION
Blu wire	24 V motor power input
Brown wire	24 V motor power input

5 INSPECTION AND COMMISSIONING

These are the most important stage in the automation system installation procedure in order to ensure the maximum safety levels. Testing can also be adopted as a method of periodically checking that all the various devices in the system are functioning correctly.

⚠ CAUTION! – The system must be tested by skilled and qualified personnel, who is responsible for defining the tests adopted in relation to the risks present, and for ensuring observance of all legal provisions, standards and regulations, with particular reference to all requirements of the EN 13241-1, EN 12445 and EN 12453 standards which defines the test methods for testing gate automations.

5.1 - Inspection

Each individual component of the automation, e.g. sensitive edges, photocells, emergency stop etc requires a specific inspection phase. For these devices the procedures given in the respective instruction manuals must be performed. When conducting tests on the gearmotor, proceed as follows:

- 1** Check that everything envisioned in Chapter 1 - General safety warnings and precautions, is rigorously respected.
- 2** Close the gate.
- 3** **Remove any electric power input source to the control unit.**
- 4** Release the gear motor using the relative wrench (see **paragraph 3.6**).
- 5** Move the gate leaf by hand to its maximum opening position; during movement make sure there is minimum friction and that constant force is used throughout the travel: there must be no points where the friction is greater

than elsewhere.

- 6** Move the gate leaf by hand and leave it still at various points along its travel; then make sure that the gate leaf remains in balance, i.e. it does not move.
- 7** Make sure that the safety systems and mechanical stops are in good condition.
- 8** Make sure that the screw terminals used for the electrical connections are tight.
- 9** Block the gear motor using the relative wrench (see **paragraph 3.6**).
- 10** Apply the electric power input to the control unit.
- 11** Measure the force of impact according to that envisioned by the EN 12445 Standard. If the control of the “driving force” is used by the control unit as an auxiliary to the system for the reduction of the force of impact, try and adjust the functions that offer better parameters.
- 12** Place the label showing how to manually release and relock the gearmotor in a position close to the automated unit.

5.2 - Commissioning

Commissioning can only be performed after all of the inspection phases of the gear motor and other devices present have been performed with positive results. For commissioning refer to the control unit instruction manual.

IMPORTANT – Partial commissioning or in “temporary” situations is prohibited.

6 PRODUCT MAINTENANCE

Maintenance must be performed in strict observance of the safety provisions in this manual and according to current legislation and standards.

The automation devices do not require special maintenance. However a check should be performed at least every six months to ensure complete efficiency of all devices.

For this purpose, the tests and checks envisaged in paragraph 5.1 “Testing” should all be performed, as well as all procedure in the paragraph “Maintenance operations permitted for the user”.

If other devices are present, follow the instructions in the relative maintenance schedule.

If the motor is replaced, it is possible to use the replacement pin and move the gate manually: to insert the pin see **Fig. 21**.

DISPOSAL OF THE PRODUCT

This product is an integral part of the automation and therefore must be demolished with it.

As for installation, the plant must also be demolished by qualified staff at the end of its life span.

This product is made up of various types of materials: some can be re-cycled, others must be disposed of. Obtain information regarding recycling or disposal systems envisioned by the Standards in force on your territory for this category of product.

Attention! – some parts of the product can contain pollutant or dangerous substances which, if dispersed into the environment, could have damaging effects on the same and human health.

As indicated by the symbol at the side, it is prohibited to throw this product into domestic waste. "Separate collection" must be performed for disposal, according to the methods envisioned by the Regulations in force on your territory or take the product back to your dealer on the purchase of a new equivalent product.



Attention! – local regulations in force may envision heavy sanctions if this product is disposed of abusively.

PRODUCT TECHNICAL FEATURES

RECOMMENDATIONS • All technical features stated make reference at a room temperature of 20°C (± 5°C). • Nice S.p.A. reserves the right to modify the product at any time it deems necessary, however maintaining the same functionality and destination of use.

- **Type:** Electro-mechanical dear motors for gates and doors with hinged panels
- **Power input:** 24 V ---
- **Nominal absorption:** 1 A
- **Maximum absorption:** 2.9 A
- **Nominal power:** 25 W
- **Maximum power:** 70 W
- **Protection rating:** IP 67
- **Run:** 0°...120° (±10°)
- **Nominal speed:** 1.5 rpm
- **Nominal torque:** 60 Nm
- **Maximum torque:** 150 Nm
- **Functioning temperature:** -20°C...+50°C
- **Cycles/hour at the nominal torque:** 60
- **Dimensions:** 305 x 145 x 346
- **Weight (kg):** 5.5

CE declaration of conformity and declaration of incorporation of "partly-completed machinery"

Declaration in accordance with Directives: 2014/30/UE (EMC); 2006/42/EC (MD) annex II, part B.

Note - The content of this declaration corresponds to the declaration made in the official document filed in the offices of Nice S.p.A., and particularly the latest version thereof available prior to the printing of this manual. The text contained here has been adapted to meet editorial requirements. A copy of the original declaration may be requested from Nice S.p.A. (TV) Italy.

Declaration number: **589/OLTRE**

Revision: **0**

Language: **EN**

Name of manufacturer: NICE S.p.A.

Address: Via Pezza Alta N°13, 31046 Rustignè di Oderzo (TV) Italy.

Person authorized to provide technical documentation: NICE S.p.A. – Via Pezza Alta N°13, 31046 Rustignè di Oderzo (TV) Italy.

Product type: 24Vd.c. electro-mechanical gear motor for swing gates.

Model / Type: OLTRE1824

Accessories:

The undersigned Roberto Griffa, as Chief Executive Officer, hereby declares under his own responsibility that the products identified above comply with the provisions of the following directives:

- **DIRECTIVE 2014/30/UE OF THE EUROPEAN PARLIAMENT AND COUNCIL** of February 26 2014 concerning alignment of Member States' legislation regarding electromagnetic compatibility (consolidated text), according to the following harmonized standards: EN 61000-6-2:2005; EN 61000-6-3:2007 + A1:2011.

The product also complies with the following directive in accordance with the requirements for "quasi-machines":

- **Directive 2006/42/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL** of May 17 2006 regarding machines and amending directive 95/16/EC (consolidated text).
- I declare that the pertinent technical documentation has been prepared in accordance with Annex VII B to Directive 2006/42/EC and that the following essential requirements have been met:
1.1.1 - 1.1.2 - 1.1.3 - 1.2.1 - 1.2.6 - 1.5.1 - 1.5.2 - 1.5.5 - 1.5.6 - 1.5.7 - 1.5.8 - 1.5.10 - 1.5.11.
- The manufacturer agrees to send the national authorities pertinent information on the "quasi-machine" in response to a motivated request without affecting its intellectual property rights.
- If the "quasi-machine" is operated in a European country with an official language other than the language used in this declaration, the importer must associate a translation with this declaration.
- The "quasi-machine" must not be operated until the final machine in which it is to be incorporated is declared to conform to the provisions of Directive 2006/42/EC, if applicable to it.

The product also complies with the following standards:

EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008 + A14:2010 + A15:2011; EN 60335-2-103:2003 + A11:2009.

The parts of the product which are subject to the following standards comply with them: EN 13241-1:2003 + A1:2011; EN 12445:2000; EN 12453:2000; EN 12978:2003 + A1:2009.

Oderzo, April 21 2016

Ing. **Roberto Griffa**
(Chief Executive Officer)

⚠ This user guide should be stored and handed to all users of the automation.

11.1 – WARNINGS

- Keep at a safe distance from the moving gate until it is completely open or closed; do not transit through the gate until it is completely open and has come to a standstill.
- Do not let children play near the gate or with its commands.
- Keep the transmitters away from children.
- Suspend the use of the automation immediately as soon as you notice something abnormal in the operation (noises or jolting movements); failure to follow this warning may cause serious danger and accidents.
- Do not touch moving parts.
- Regular maintenance checks must be carried out by qualified personnel according to the maintenance plan.
- Maintenance or repairs must only be carried out by qualified technical personnel.
- Send a command with the safety devices disabled:

If the safety devices do not work properly or are out of order, the gate can still be operated.

01. Command the gate with the transmitter. If the safety devices give the enable signal, the gate opens normally; otherwise, reattempt within 3 seconds and keep the control activated.
02. After approximately 2 seconds the gate will start moving in the “man present” mode, that is, so long as the control is kept activated the gate will keep moving; as soon as the control is released the gate will stop.

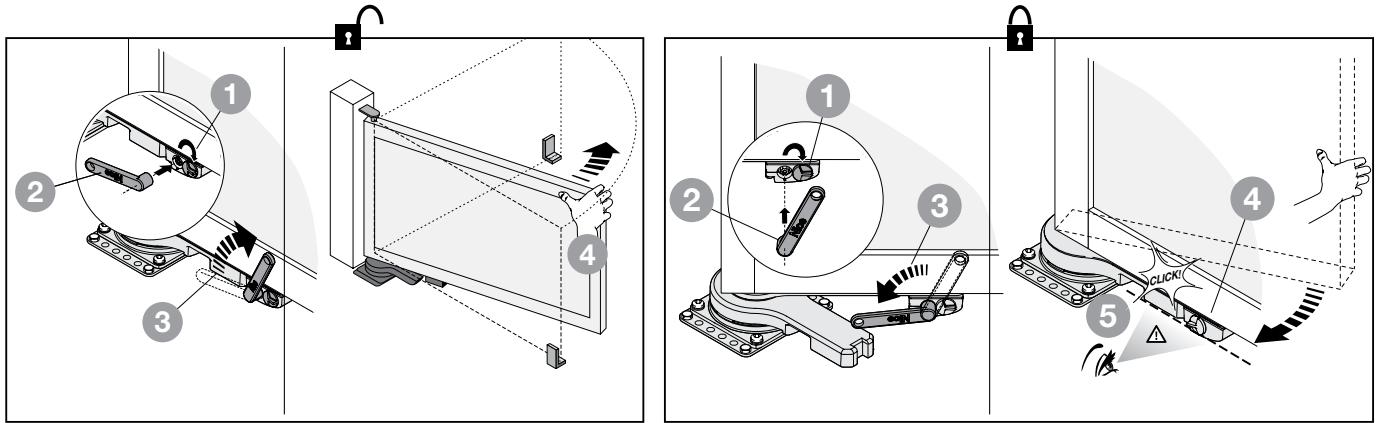
If the safety devices are out of order, arrange to repair the automation as soon as possible.

11.2 – Manually releasing and locking the gearmotor

The OLTRE1824 gearmotor is equipped with a mechanical system that allows for opening and closing the gate manually.

Manual operation must be performed in the case of a power outage or in the event of anomalies affecting the system.

In the event of a gearmotor fault, it is still possible to try release the motor to check whether the fault lies in the release mechanism.



11.3 – User-admissible maintenance operations

The operations that the user must carry out periodically are listed below:

- **Cleaning of the surfaces of the devices:** use a slightly damp (not wet) cloth. Do not use substances containing alcohol, benzene, thinners or other flammable substances; the use of these substances may damage the devices and cause fires or electric shocks.
- **Removal of leaves and stones:** disconnect the power supply before proceeding, so as to prevent anyone from moving the gate. If a back-up battery is fitted, disconnect it.

