Nice

CE

RONDO

Balanced rolling door opener

EN - Instructions and warnings for installation and use

Nice

ENGLISH

Translation of the original instructions in full

CONTENTS

1 GENERAL SAFETY WARNINGS AND PRECAUTIONS

1.1 GENERAL WARNINGS

Prior to installing the appliance, carefully read and observe these instructions, since incorrect installation can cause serious harm to people and damage to the appliance. Store them with care.

According to the latest European legislation, an automated device must be constructed in conformity to the harmonised rules specified in the current Machinery Directive, which allow for declaring the presumed conformity of the automation. Consequently, all the operations for connecting the product to the mains electricity, its commissioning and maintenance must be carried out exclusively by a qualified and expert technician.

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.

WARNING! Please abide by the following warnings:

- Before commencing the installation, check the “Product technical specifications”, in particular whether this product is suitable for automating your guided part. Should it not be suitable, do NOT proceed with the installation.
- The product cannot be used before it has been commissioned as specified in the “Testing and commissioning” chapter.
- Before proceeding with the product’s installation, check that all the materials are in good working order and suited to 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 product’s control devices. Keep the remote controls out of reach of children.
- The system’s power supply network must include a disconnection device (not supplied) with a contact opening gap permitting complete disconnection under the conditions envisaged by Overvoltage Category III.
- Handle the product with care during installation, taking care to avoid crushing, denting or dropping it, or allowing contact with liquids of any kind. Keep the product away from sources of heat and naked flames. Failure to observe the above can damage the product, and increase the risk of danger or malfunction. Should this happen, stop installation immediately and contact Customer Service.
- The manufacturer declines all liability for damages to property, objects or people resulting from failure to observe the assembly instructions. In such cases, the warranty for material defects shall not apply.
- The weighted sound pressure level of the emission A is lower than 70 dB(A).
- Cleaning and maintenance reserved for the user must not be carried out by unsupervised children.
- Before intervening on the system (maintenance, cleaning), always disconnect the product from the mains power supply and from any batteries.
- Inspect the system frequently, in particular the cables, springs and supports to detect any imbalances and signs of wear or damage. Do not use the product if it needs to be repaired or adjusted, because defective installation or incorrect balancing of the automation can lead to injuries.
- The packing materials of the product must be disposed of in compliance with local regulations.
- The product must not be installed outdoors.
- Keep an eye on moving doors and do not let anyone go near them until they have opened or closed fully.
- Be careful when activating the manual unlocking device (manual manoeuvre), as an open door may fall suddenly due to weak or broken springs, or if it is unbalanced.
- Every month, check that the drive motor reverses when the door encounters a 50 mm-high object placed on the ground. If necessary, readjust the door and check it again, as incorrect adjustment is potentially dangerous (for drive motors incorporating a trapping safety system that intervenes when the door's lower edge encounters an obstacle).
- Motor with **fixed** power cable: the power cable **cannot be replaced**. If the cable is damaged, the appliance must be scrapped.
- Motor with **removable** power supply cable with dedicated connector: if the power supply cable is damaged, it **must be replaced** by the manufacturer or by the latter’s technical assistance service, or nonetheless by a similarly qualified person, so as to prevent any risk.

1.2 INSTALLATION WARNINGS

- Prior to installing the drive motor, check that the door is in good working order, correctly balanced and that it opens and closes properly.
- Before installing the drive motor, remove all unnecessary ropes or chains and deactivate any equipment not required for motorised operation, such as locking devices.
- Install the manoeuvre device for manual unlocking at less than 1.8 m above the ground. NOTE - If removable, the manoeuvre device must be kept next to the door when removed.
- Make sure that the control elements are kept far from moving parts but nonetheless directly within sight. Unless a selector is used, the control elements must be installed at least 1.5 m above the ground and must not be accessible.
- Permanently attach the trapping hazard warning labels in a highly visible location or near the fixed control devices (if present).
- Permanently attach the manual unlock (manual manoeuvre) label close to the manoeuvring element.
- After installation, make sure that the motor prevents or stops opening of the door when the latter is loaded with a 20-kg weight secured to the centre of its bottom edge (for drive motors that can be used with doors having opening widths exceeding 50 mm).
- WARNING! After installation, make sure that the mechanism is properly adjusted and that the motor reverses when the door collides with a 50 mm-tall object placed on the ground (for drive motors incorporating a trapping safety system that intervenes when the bottom edge of the door encounters an obstacle). Following installation, check and ensure that no door parts obstruct public roadways or pavements.

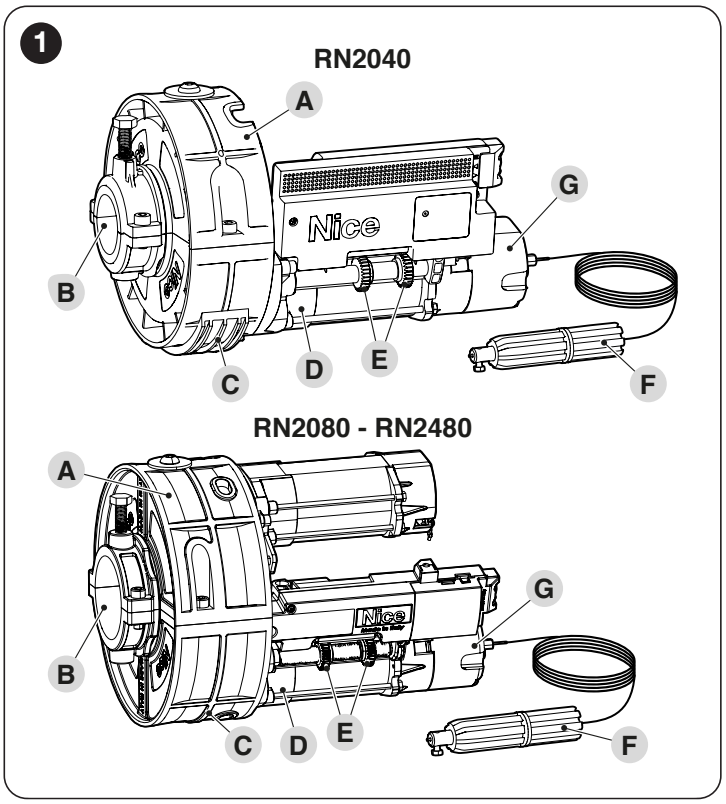
2 PRODUCT DESCRIPTION AND INTENDED USE

RONDO is a complete range of gearmotors for spring-balanced rolling shutters.
The three models available can be used to automate shutters up to 6 metres high and weighing 360 Kg. Depending on the model, the devices can be installed on shutters with spring support shaft with a diameter equal to 42, 48, 60 or 76 mm. Moreover, the models can be applied on shutters with spring support box having a diameter equal to 200, 220 or 240 mm.
The two collars are made of die-cast aluminium.
They have a limit switch with micrometer screw and mechanical position memory.
The unlocking device, operated from the ground, disengages the motor from the gearmotor body and is only available for models with electric brake.

CAUTION! – Any use other than that specified herein or in environmental conditions other than those stated in this manual is to be considered improper and is strictly forbidden!

2.1 LIST OF CONSTITUENT PARTS

"***Figure 1***" shows the main parts making up the **RONDO**.



A Half-collar
B Transmission shaft housing
C Adaptor for collar
D Gearmotor body
E Limit switch position regulators
F Locking/unlocking system (where configured)
G Electric brake (where configured)

3 INSTALLATION

3.1 PRE-INSTALLATION CHECKS

The installation must be carried out by qualified personnel in compliance with the current legislation, standards and regulations, and with the instructions provided in this manual.

Before proceeding with the product's installation, it is necessary to:
- check the integrity of the supply
- check that all the materials are in good working order and suited to the intended use
- check that the shutter is properly balanced, in other words, it must not start moving again when stopped in any position
- verify that there are no points of greater friction during the opening and closing movements along the entire shutter path
- verify that the shutter moves silently and smoothly along its path
- verify that the fixing zone is compatible with the product's size (see paragraph "***Product identification and overall dimensions***").
- verify that the mounting positions of the various devices are protected against impacts and that the mounting surfaces are sufficiently sturdy
- prevent any parts of the automation from being immersed in water or other liquids
- keep the product away from heat sources and open flames and acid, saline or potentially explosive atmospheres; these may damage the product and cause malfunctions or dangerous situations
- connect the control unit to an electricity supply line equipped with a safety earthing system

– include a device on the electric power line ensuring complete disconnection of the automation from the grid. The disconnection device must have contacts with a sufficient gap to ensure complete disconnection, under the Category III overvoltage conditions, in accordance with the installation instructions. Should it be necessary, this device guarantees fast and safe disconnection from the power supply; it must therefore be positioned in view of the automation. If placed in a non-visible location, it must have a system that blocks any accidental on unauthorised reconnection of the power supply, in order to prevent dangerous situations. The disconnection device is not supplied with the product.

3.2 PRODUCT USAGE LIMITS

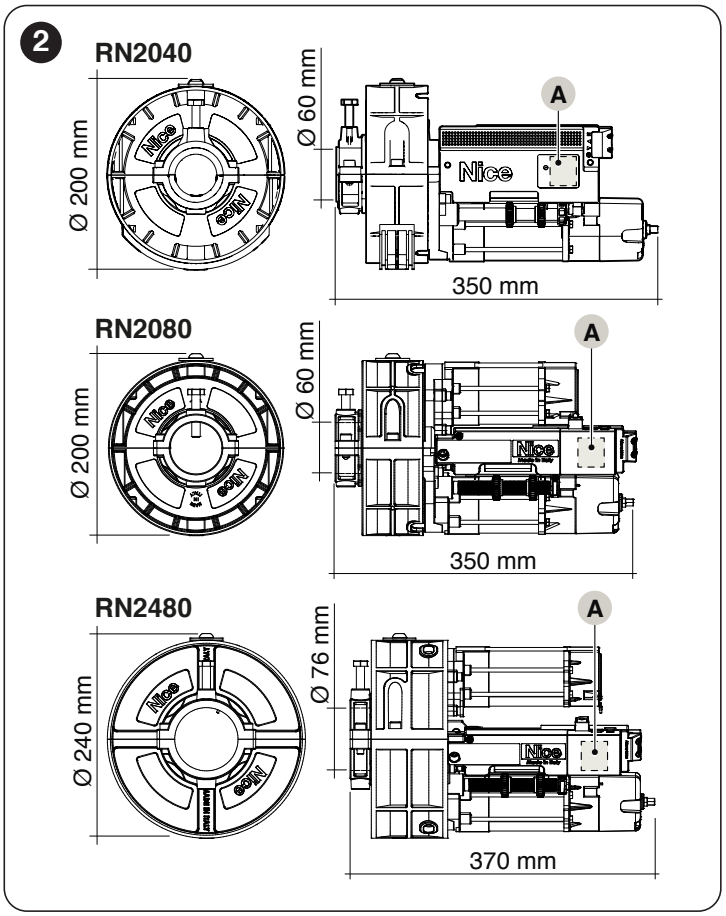
The data relative to the product's performances is included in the "***TECHNICAL SPECIFICATIONS***" chapter (page 12) and is the only data that allows for properly assessing whether the product is suitable for its intended use.
Check the application limits of the **RONDO** gearmotor range and of the accessories to be installed, assessing whether their characteristics are capable of meeting the requirements of the environment and the limitations specified below:
– verify that the weight of the shutter does not exceed the value stated in the "***TECHNICAL SPECIFICATIONS***" chapter
– the drive shaft must be compatible with the output shaft of the **RONDO** gearmotor range and the relative keys supplied with the package.

The gearmotor is equipped with a thermal cut-off which, in case of overheating caused by overuse of the automation (beyond the specified limits), automatically cuts off the electricity supply, restoring it as soon as the temperature returns to its normal value.

The control unit is equipped with a manoeuvre limiting device that prevents possible overheating; it is based on the motor load and duration of the cycles, and intervenes when the maximum limit is exceeded.

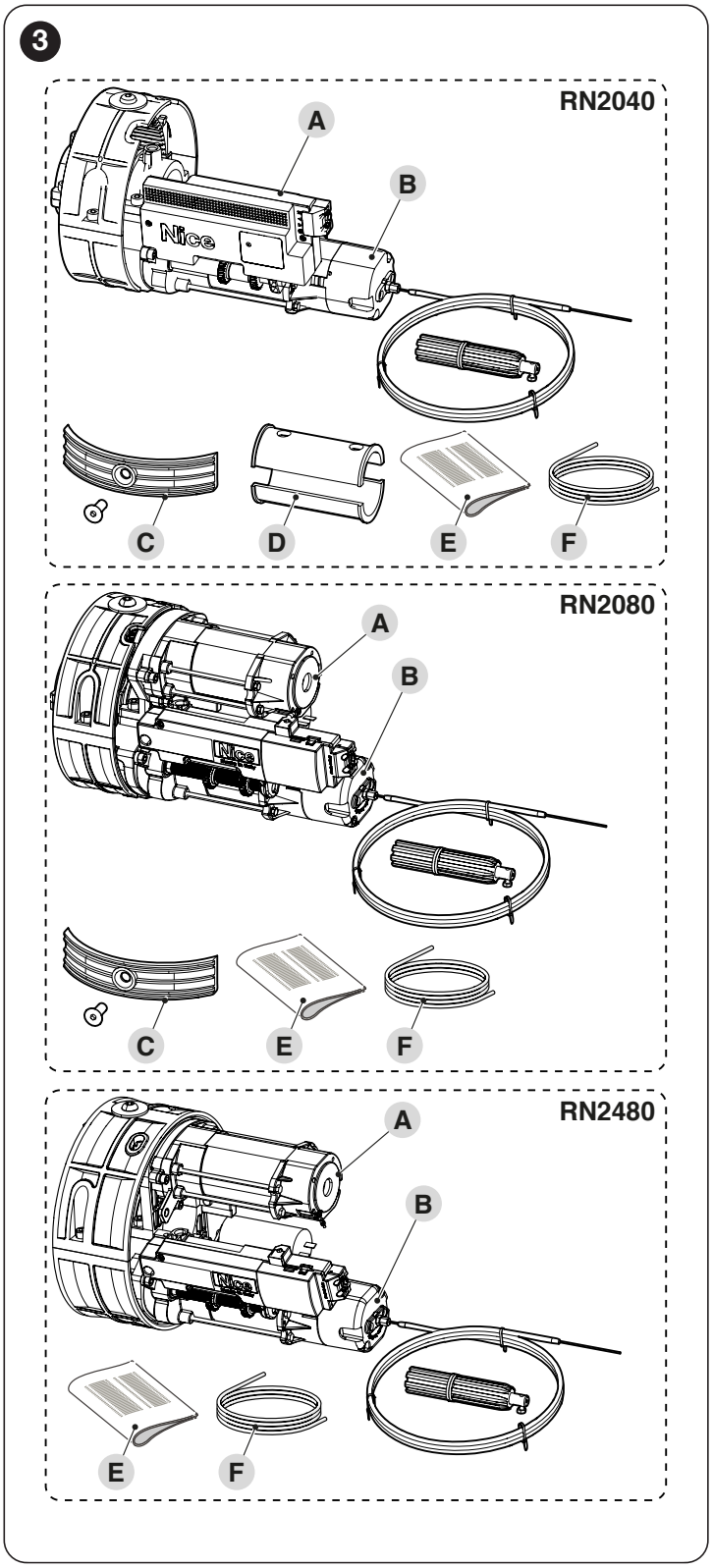
3.3 PRODUCT IDENTIFICATION AND OVERALL DIMENSIONS

The overall dimensions and the label (**A**), which allows for identifying the product, are shown in "***Figure 2***".



3.4 RECEIPT OF THE PRODUCT

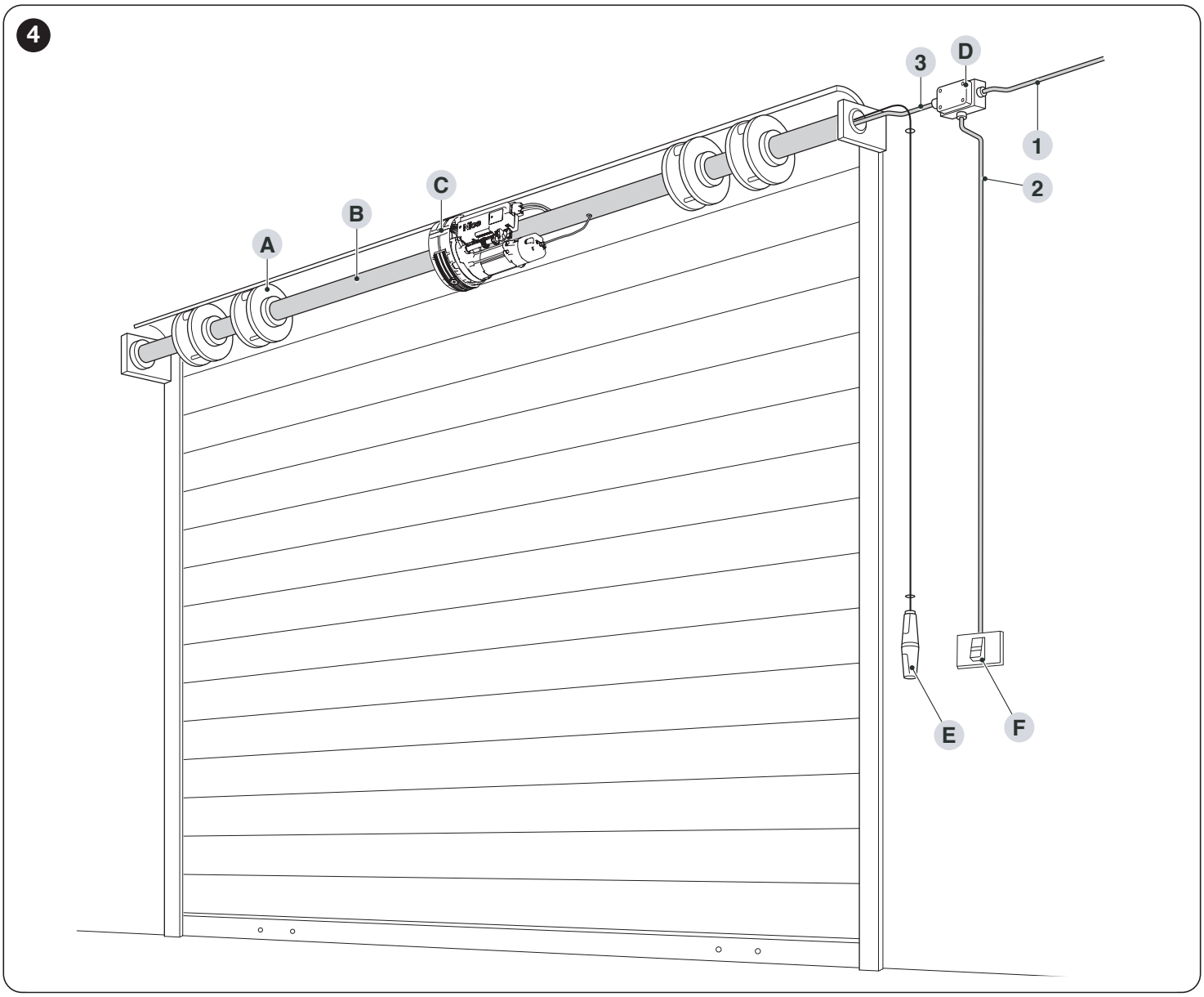
All the components contained in the product's packaging are illustrated and listed below.



A Gearmotor
B Electric brake (where configured)
C Adaptor for collar
D Adaptor for spring support shaft size 48 mm
E User manual
F Power cable

3.5 PRE-INSTALLATION WORKS

The figure shows an example of an automation system, constructed using **Nice** components.



A Spring support box
B Spring support shaft
C Gearmotor
D Junction box
E Locking/unlocking knob
F Command inverter

The above-mentioned components are positioned according to a typical standard layout. Using the layout shown in "***Figure 4***" for reference, define the approximate position in which each component of the system will be installed.

Table 1

TECHNICAL SPECIFICATIONS OF ELECTRICAL CABLES	
Identification no.	**Cable characteristics**
1	GEARMOTOR POWER SUPPLY cable 1 cable 4 x 0.75 mm^2 for RN2040 1 cable 4 x 1 mm^2 for RN2080 and RN2480 Maximum length 30 m [**note 1**]
2	PUSHBUTTON PANEL cable 1 cable 3 x 0.75 mm^2 minimum

Note 1 If the power supply cable is longer than 30 m, a cable with larger cross-sectional area (3 x 2.5 mm^2) must be used and a safety earthing system must be installed near the automation.

The cables used must be suited to the type of environment of the installation site.

3.6 INSTALLING THE GEARMOTOR

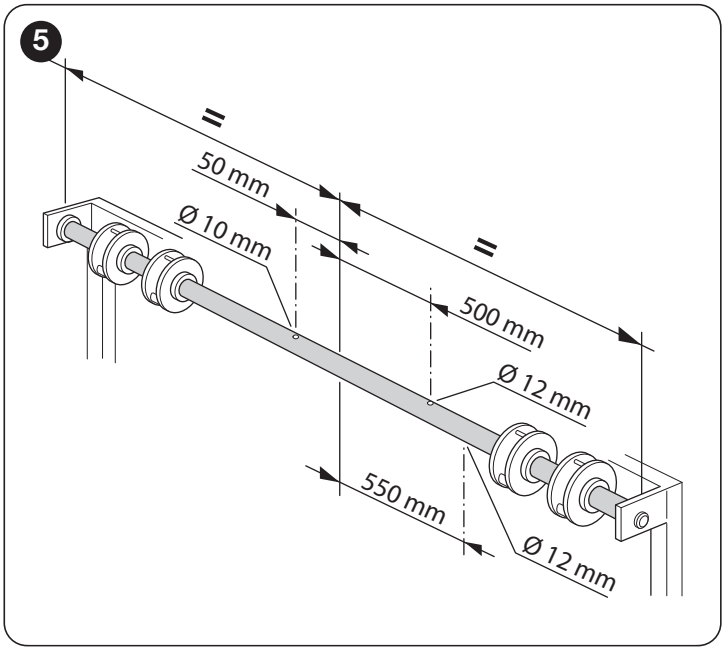
Incorrect installation may cause serious physical injury to the person working on the system or to its future users.

Before starting to assemble the automation, complete the preliminary checks described in the "*Pre-installation checks*" paragraph (page 3) and the " *Product usage limits*" paragraph (page 4).

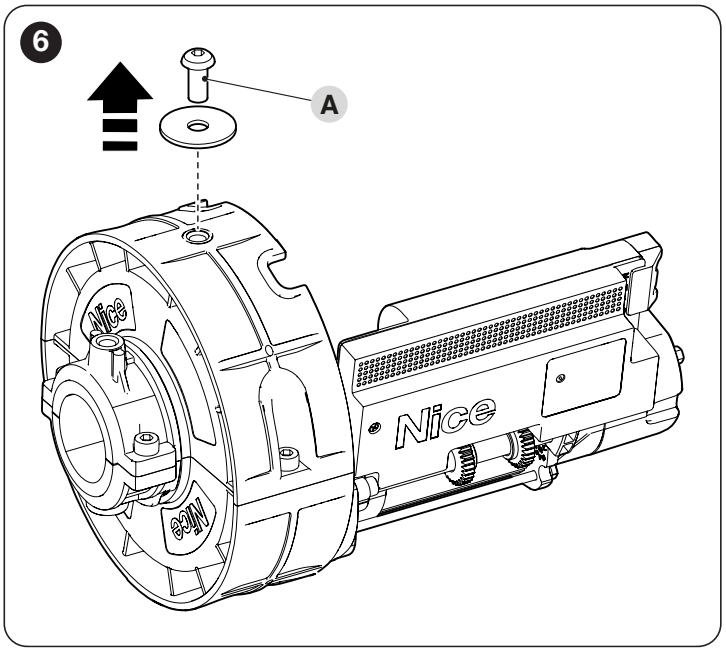
To install models of the **RONDO** range:

1. close the shutter completely

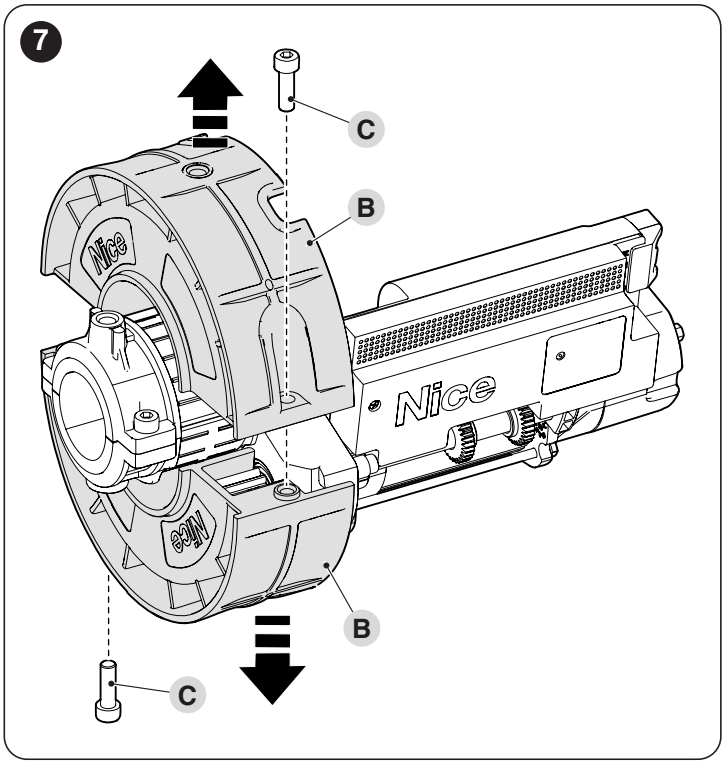
2. cut the three holes specified in the image on the spring support shaft



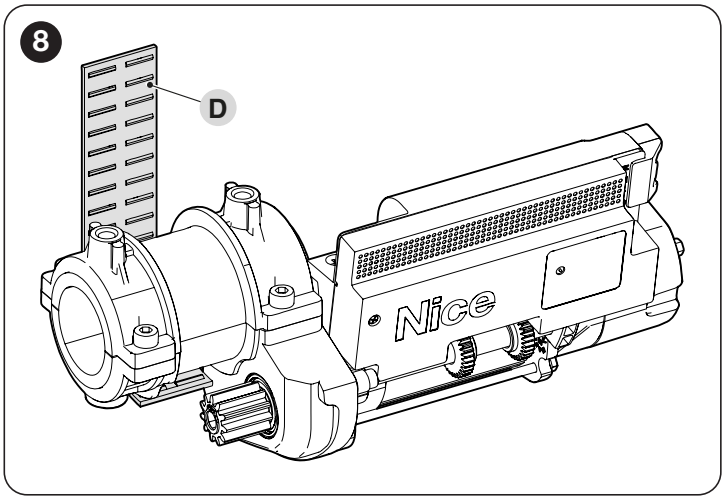
3. loosen the screw (**A**) and remove the washer



4. dismantle the two half-collars (**B**) by loosening the screws (**C**)

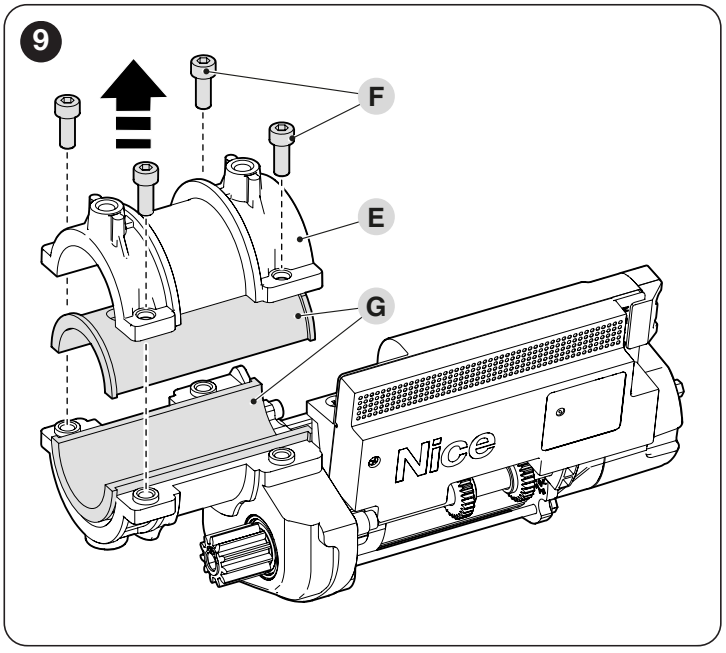


5. gently remove the roller band (**D**) without bending it, as the rollers could fall off



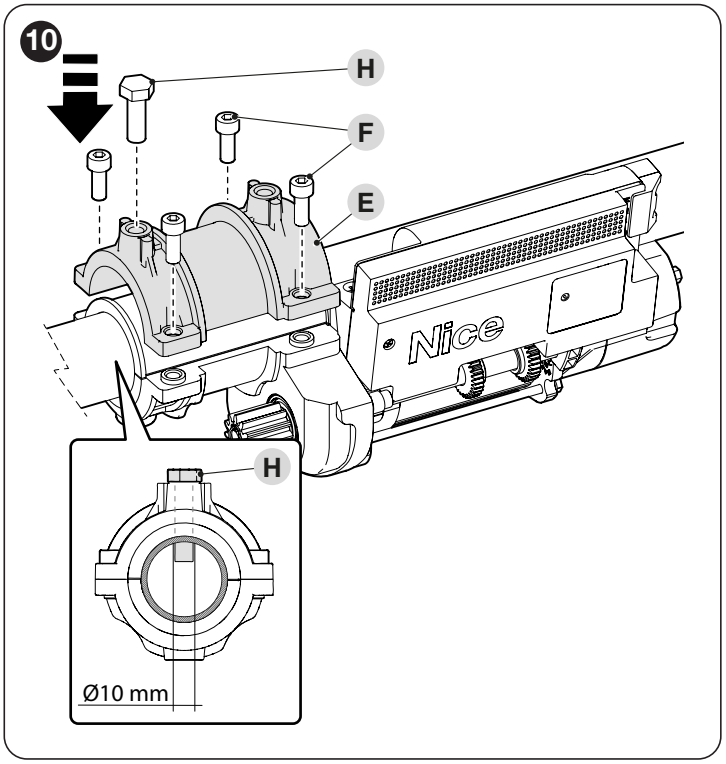
6. separate the item (**E**) by loosening the four screws (**F**)

The sleeves (G) on the gearmotor are suitable for a spring support shaft with 48 mm diameter. If the shutter shaft has a smaller diameter, replace the sleeves with other sleeves having a 33 or 42 mm diameter (not supplied) and place them against the 10 mm hole cut previously (see "*Figure 5*").

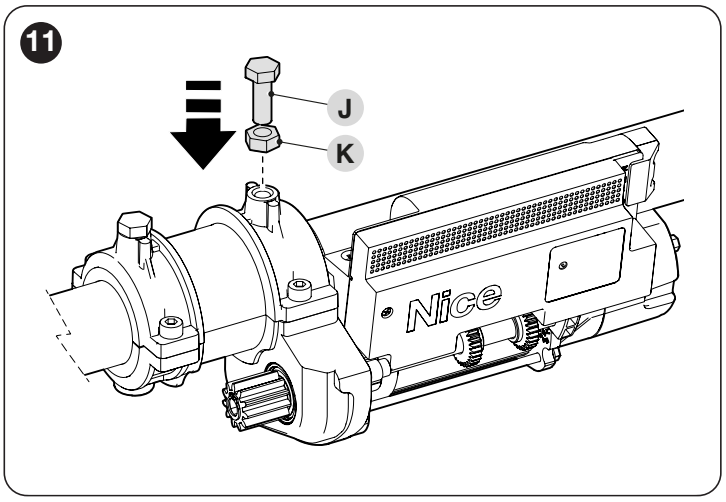


7. draw the gearmotor against the spring support shaft and couple it with item (**E**) using the four screws (**F**) removed previously

8. completely tighten the M10 screw supplied (**H**) without the hexagonal nut, until it penetrates into the spring support shaft through the 10 mm hole



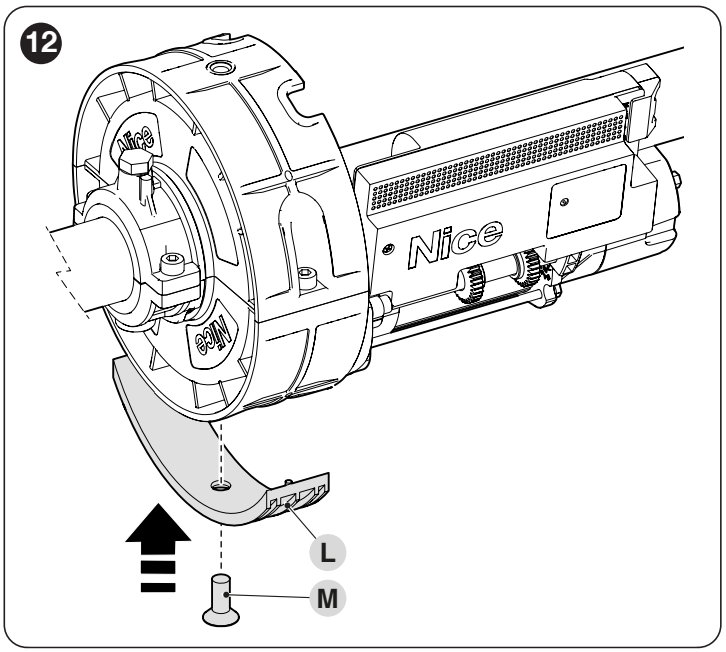
9. tighten the M10 screw (**J**) with the nut supplied (**K**) to lock the gearmotor on the spring support shaft; tighten the nut to lock the screw in position



10. mount the roller band back on without bending it, as the rollers could fall off

11. mount the two half-collars back on with the appropriate screws

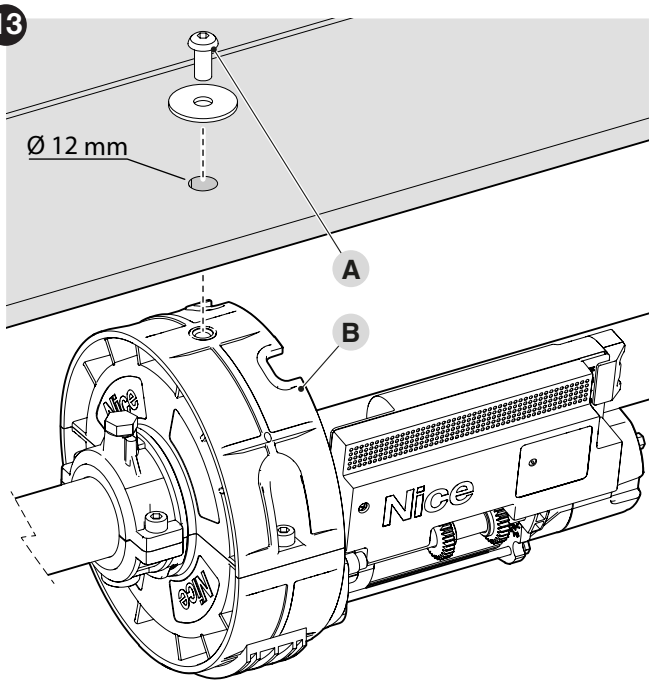
12. if there are any spring support boxes with a 220 mm diameter, mount the adaptor supplied (**L**) using the appropriate flat-head screw (**M**)



13. cut a 12 mm hole on the last item of the shutter near the hole on the half-collar (**B**)

14. fasten the last item of the shutter to the gearmotor using screw (**A**) and the appropriate washer

13



4 ELECTRICAL CONNECTIONS

4.1 PRELIMINARY CHECKS

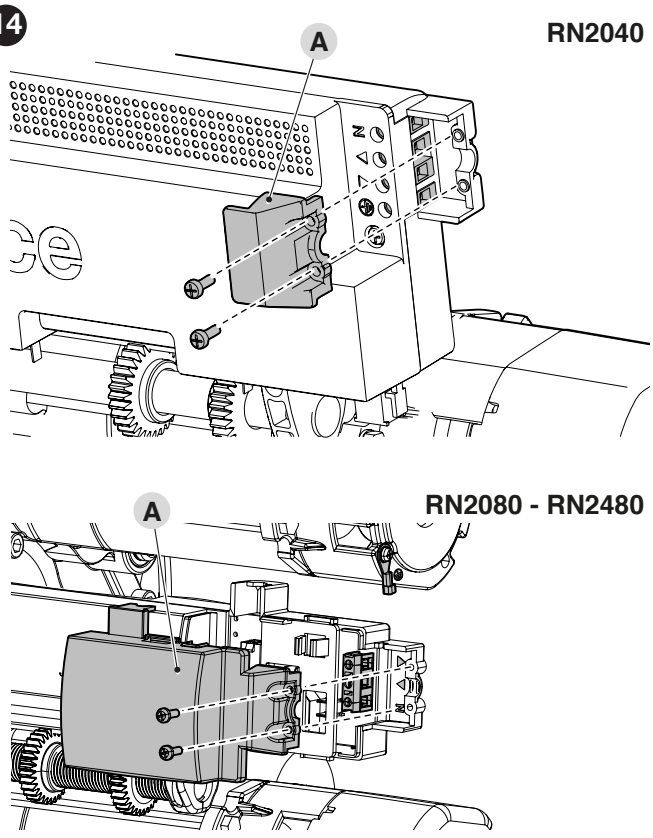
All electrical connections must be made with the system disconnected from the mains electricity and with the back-up battery (if present) disconnected.

The connection operations must only be carried out by qualified personnel.

To make the electrical connections:

1. remove the screws and the protective cover (**A**)

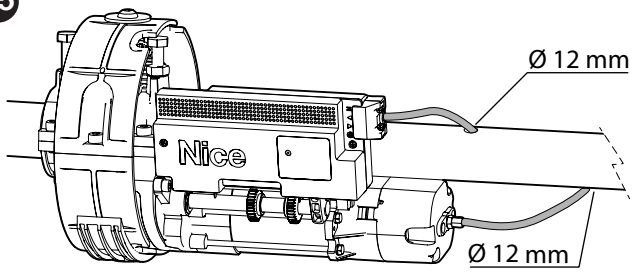
14



2. pass the power cable through the hole cut previously on the spring support shaft

3. if the gearmotor is equipped with an electric brake, fit the brake sheath through the second hole on the spring support shaft

15

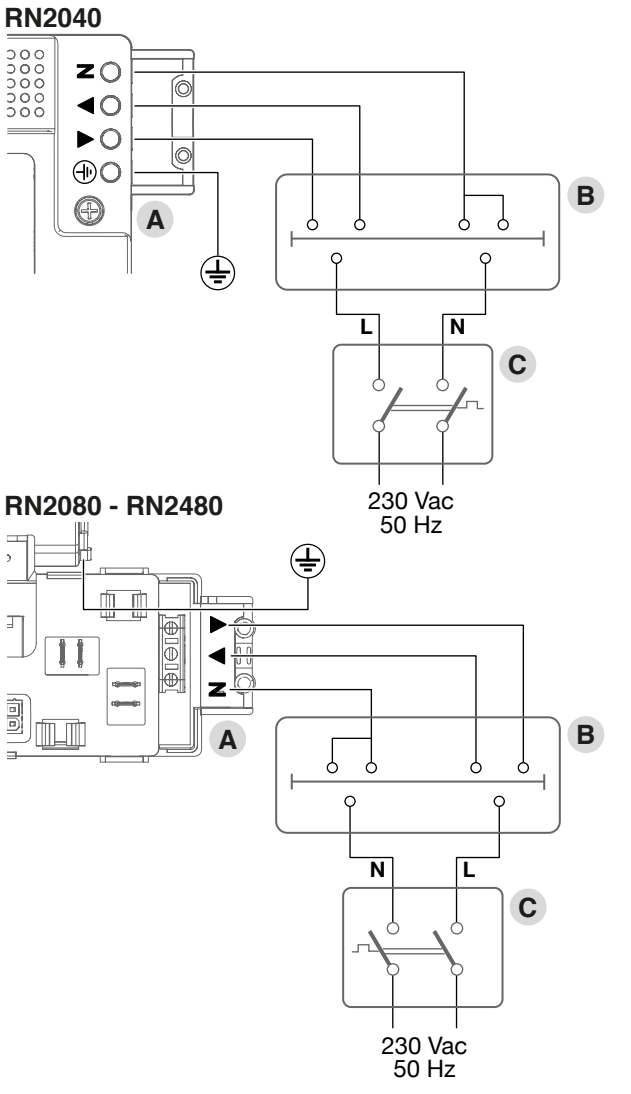


4. make the connections by following the scheme shown in "***Figure 16***"

5. after making the connections, lock the power cable by screwing the protective cover (**A**) in place.

4.2 WIRING DIAGRAM AND DESCRIPTION OF CONNECTIONS

16



A Mains power inputs terminal
B Manual command buttons
C Omnipolar device

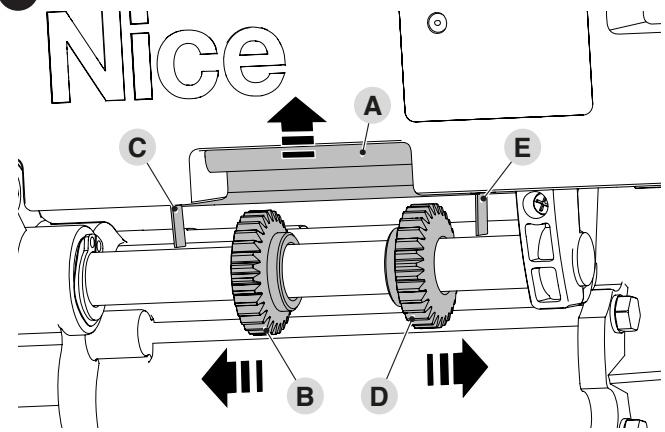
5 FINAL CHECKS AND START-UP

5.1 ADJUSTING THE MECHANICAL LIMIT SWITCHES

To adjust the limit switches, proceed as follows:

1. close the shutter completely
2. press and hold the presser (**A**) upwards so as to allow the limit switch adjusters to move freely
3. turn the adjuster (**B**) until the lowering switch (**C**) clicks (lowering limit switch adjustment completed)
4. turn the adjuster (**D**) by moving it towards the lifting switch (**E**)
5. release the presser (**A**)

17



6. power the gearmotor
7. control the lowering of the shutter through the key selector or button
8. verify whether the shutter stops in the desired position
9. to change the point where the shutter stops during the opening manoeuvre, modify the position of the adjuster (**D**) as shown previously (for particularly high shutters and for prolonging the shutter's path, the adjuster (**D**) must be moved away from the ascent switch (**E**)).

If the gearmotor is installed in the opposite direction, switch (C) will allow the shutter to stop while it is lifted, while switch (E) will allow it to stop while it is lowered. Adjust the cursors accordingly.

5.2 MANUALLY UNLOCKING AND LOCKING THE GEARMOTOR

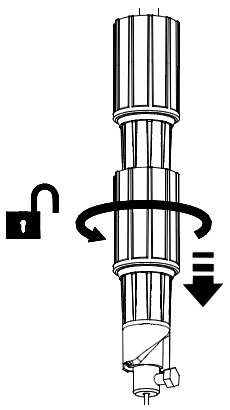
If the shutter is lifted before the limit switches are adjusted, the gearmotor could get seriously damaged. Carry out the procedure set forth in the "*Adjusting the mechanical limit switches*" paragraph.

Gearmotors equipped with an electric brake have a mechanical unlocking system that allows for opening and closing the shutter manually.
These manual operations should only be performed in case of a power outage, malfunctions or during the installation phases.
To unlock the device:

1. loosen the lower part of the knob anti-clockwise until you can
2. at this point, the shutter can be moved manually to the desired position.

To lock the device, turn the knob clockwise all the way.

18



6 TESTING AND COMMISSIONING

These are the most important phases of the automation's construction, as they ensure maximum safety of the system. The test can also be used to periodically verify the devices making up the automation.

Testing and commissioning of the automation must be performed by skilled and qualified personnel, who are responsible for the tests required to verify the solutions adopted according to the risks present, and for ensuring that all legal provisions, standards and regulations are met, in particular all the requirements of the EN 12453 standard, which defines the test methods for checking door automations.

The additional devices must undergo specific testing, both in terms of their functions and their proper interaction with the control unit. Refer to the instruction manuals of the individual devices.

6.1 TESTING

To run the test:

1. verify that all the instructions stated in the "***GENERAL SAFETY WARNINGS AND PRECAUTIONS***" chapter (page 2) have been strictly observed
2. check that the die-cast items are in good condition and are not broken
3. check that the gearmotor is properly secured to the spring support shaft
4. check that the electrical contacts are in good condition
5. check that the collar does not have any excessive axial clearance
6. verify the adjustment of the limit switches by performing a complete manoeuvre (up-down)
7. check that the gearmotor – when locked in any position – does not move
8. check that the unlocking manoeuvre easily disengages the gearmotor from the shutter (only for versions with brake).

6.2 COMMISSIONING

Commissioning can only be performed after all testing phases have been successfully completed.

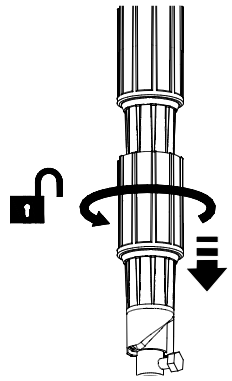
Before commissioning the automation, ensure that the owner is properly informed of all residual risks and hazards.

The gate cannot be commissioned partially or under "temporary" conditions.

To commission the automation:

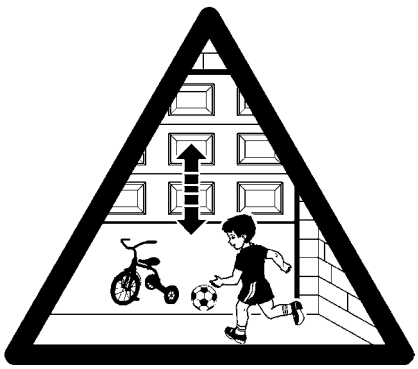
1. compile the automation's technical file, which must include the following documents: overall drawing of the automation, wiring diagram, risk assessment and relative solutions adopted, the manufacturer's declaration of conformity for all devices used and the declaration of conformity compiled by the installer
2. permanently affix a label or plate near the manual manoeuvre knob, indicating the operations for unlocking the shutter "***Figure 19***"

19



3. permanently affix a label or sign to the door with the following image (minimum height 60 mm) "***Figure 20***"

20



4. affix a label to the door containing at least the following data: type of automation, name and address of manufacturer (person responsible for commissioning), serial number, year of manufacture and the CE mark
5. compile the declaration of conformity of the automation and hand it to the owner of the automation
6. compile the User Manual of the automation and hand it to the owner of the automation
7. compile and provide the owner with the automation's "Maintenance schedule", containing the maintenance instructions for all the automation's devices.

For all the above-mentioned documentation, Nice – through its technical assistance service – provides the following: pre-completed forms.

7 TROUBLESHOOTING... (troubleshooting guide)

7.1 TROUBLESHOOTING

The table below contains useful instructions to resolve any malfunctions or errors that may occur during installation or in case of a fault.

Table 2

TROUBLESHOOTING	
Problems	**Recommended checks**
The motor does not start	Verify that the connections shown in the electrical diagram are correct. If the motor is equipped with an electric brake, verify that it is properly connected to the limit switch casing. On the version without brake, a jumper must be connected between the two terminals.
The shutter does not stop in the pre-defined positions	Verify that the limit switch is properly adjusted as set forth in the "***Adjusting the mechanical limit switches***" paragraph.
The manual manoeuvre knob is unlocked, but the shutter cannot be lifted	Verify that the cord of the electric brake was suitably tensioned during the installation phase. Verify that the spring support boxes are not damaged.
The thermal cut-off was activated	The motor has overheated: wait until its normal temperature is restored.
The motor struggles to lift the shutter	Verify that the size and weight of the shutter are compatible with the gearmotor's installation. Verify the correct operation of the spring support boxes.

8 PRODUCT MAINTENANCE

Maintenance must be carried out strictly in compliance with the safety provisions provided in this manual and in accordance with the laws and regulations in force.

To service the gearmotor, repeat the testing procedure from beginning to end.

9 PRODUCT DISPOSAL

This product is an integral part of the operator and must therefore be disposed of with it.

As with the installation, only qualified personnel must dismantle the product at the end of its life.
This product is composed of different types of materials. Some of these materials can be recycled; others must be disposed of. Please enquire about the recycling or disposal systems in place in your local area for this type of product.

WARNING

Some parts of the product may contain polluting or dangerous substances. If not disposed of correctly, these substances may have a damaging effect on the environment and human health.

As indicated by the symbol shown here, this product must not been disposed of with household waste. Separate the waste for disposal and recycling, following the methods stipulated by local regulations, or return the product to the seller when purchasing a new product.

WARNING

Local regulations may impose heavy penalties if this product is not disposed of in compliance with the law.

10 TECHNICAL SPECIFICATIONS

All technical specifications stated in this section refer to an ambient temperature of 20°C (± 5°C). Nice S.p.A. reserves the right to apply modifications to the product at any time when deemed necessary, without altering its functions and intended use.

Table 3

TECHNICAL SPECIFICATIONS				
Description	**Technical specification**			
	RN2040	**RN2040/V1**	**RN2080**	**RN2480**
Product type	Gearmotor for spring-balanced rolling shutters			
Power supply	230V~ (+10% -15%) 50 Hz	120V~ (+10% -15%) 60 Hz	230V~ (+10% -15%) 50 Hz	230V~ (+10% -15%) 50 Hz
Maximum current draw (A)	2,7	5,2	5,4	5,4
Maximum torque (Nm)	170	170	280	400
Maximum power consumption (W)	630	610	1260	1260
Maximum speed (rpm)	10	10	10	9
Protection rating (IP)	20	20	20	20
Operating temperature (min/max °C)	-20°C ÷ 55°C	-20°C ÷ 55°C	-20°C ÷ 55°C	-20°C ÷ 55°C
Maximum shutter height (m)	7	7	7	7
Lifting capacity (kg)	170	170	280	360
Cycles per hour at the rated torque – for shutters with 3 m height (cycles/hour)	1	1	1	1
Dimensions (mm)	Ø200 x 350	Ø200 x 370	Ø200 x 350	Ø240 x 370
Weight (kg)	7	8	14	17
Emergency power supply	No	No	No	No
Use in highly acid, saline or potentially explosive atmosphere	No	No	No	No

11 CONFORMITY

EU Declaration of Conformity

and declaration of incorporation of "partly completed machinery"

Note - The contents of this declaration correspond to declarations in the official document deposited at the registered offices of Nice S.p.a. and in particular to the last revision available before printing this manual. The text herein has been re-edited for editorial purposes. A copy of the original declaration can be requested from Nice S.p.a. (TV) I.

Number: 168/RN **Rev:** 10 **Language:** EN

Manufacturer's Name: Nice s.p.a.
Address: Via Callalta 1, 31046 Oderzo (TV) Italy
Authorized Person to constitute technical documentation: Nice s.p.a.
Type of product: "RONDO" electromechanical gearmotor for balanced shutters
Model/Type: RN2040; RN2080; RN2480
Accessories: Refer to the catalog

The undersigned Roberto Griffa, in the role of Chief Executive Officer, declares under his sole responsibility that the product described above complies with the provisions laid down in the following directives:

- Directive 2014/30/EU (EMC), according to the following harmonized standards: EN 55014-1:2017+A11:2020, EN 55014-2:2015, EN 61000-3-2:2014, EN 61000-3-3:2013+A1:2019
- Directive 2011/65/UE (RoHS II)

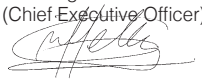
The product also complies with the following directives according to the requirements envisaged for "partly completed machinery" (Annex II, part 1, section B):

- Directive 2006/42/EC of the EUROPEAN PARLIAMENT AND COUNCIL of 17 May 2006 related to machinery and amending the Directive 95/16/EC (recast).

It is hereby stated that the relevant technical documentation has been compiled in accordance with annex VII B of Directive 2006/42/EC and that the following essential requirements have been fulfilled: 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 undertakes to transmit to the national authorities, in response to a reasoned request, the relevant information on the " partly completed machinery ", while maintaining full rights to the related intellectual property.
Should the " partly completed machinery" be put into service in a European country with an official language other than that used in this declaration, the importer is obliged to arrange for the relative translation to accompany this declaration.
The "partly completed machinery" must not be used until the final machine in which it is incorporated is in turn declared as compliant, if applicable, with the provisions of directive 2006/42/EC.

The product also complies with the following standards:
EN 60335-1:2012 + A11:2014 + A13:2017 + A1 + A2 + A14:2019; EN 60335-2-103:2015

Ing. Roberto Griffa
(Chief Executive Officer)



Oderzo, 01/03/2021

NOTES

Before using the automation system for the first time, ask the installer to explain the origin of residual risks and take a few minutes and read this instructions manual and related warnings handed to you by the installer. Keep the manual for consultation when in doubt and ensure supply to new owners of the automation.

WARNING!

Your automation is a machine that faithfully executes commands imparted by the user. Negligence and improper use may lead to dangerous situations:

- do not manoeuvre the gate if there are people, animals or objects within its range of operation
- it is strictly forbidden to touch parts of the automation while it is moving.

IT IS STRICTLY FORBIDDEN to transit while the automation is closing! Transit is allowed only if the automation is fully open and stationary.

CHILDREN

An automation system guarantees a high degree of safety. With its detection systems, it can control and guarantee the gate's movement in the presence of people or objects. It is nonetheless advisable to forbid children from playing near the automation and not to leave remote controls near them to prevent any unwanted activation of the system. The automation is not a toy!

The product is not intended for use by persons, including children, with limited physical, sensory or mental capacities, or who lack experience or knowledge, unless supervised or trained in the use of the product by a person responsible for their safety.

Anomalies: if the automation shows any signs of anomalous behaviour, disconnect the power supply to the system and manually unlock the motor (see instructions at the end of the chapter) to manoeuvre the automation manually. Do not attempt any repairs personally, but contact your trusted installer.

Failure or lack of power supply: while waiting for the installer to intervene or the electricity to be restored, if the system is not equipped with back-up batteries, the automation can nonetheless be used by manually unlocking the motor (see the instructions at the end of the chapter) and moving the automation manually.

Do not modify the system: the responsibility lies on your installer.

Testing, periodic maintenance and any repairs must be documented by the person performing the operations and the relative documents must be kept by the owner of the installation.

Before carrying out any maintenance operations, the user of the automation must manually unlock the motor to prevent anyone from accidentally triggering the automation's movement (see the instructions at the end of the chapter).

Maintenance: in order to ensure constant levels of safety and the longest useful life for the automation, routine maintenance must be carried out (at least every 6 months).

Only qualified personnel is authorised to carry out checks, maintenance operations and repairs.

Disposal: at the end of its useful life, the automation must be dismantled by qualified personnel and the materials must be recycled or disposed of in compliance with the local regulations in force.

Unlocking and manual movement

The device can only be unlocked once the automation is stationary.

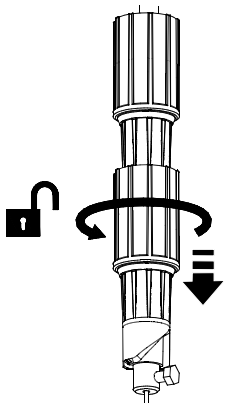
Gearmotors equipped with an electric brake have a mechanical unlocking system that allows for opening and closing the shutter manually.

These manual operations should only be performed in case of a power outage, malfunctions or during the installation phases.

To unlock the device:

1. loosen the lower part of the knob anti-clockwise until you can
2. at this point, the shutter can be moved manually to the desired position.

21



To lock the device, turn the knob clockwise all the way.

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