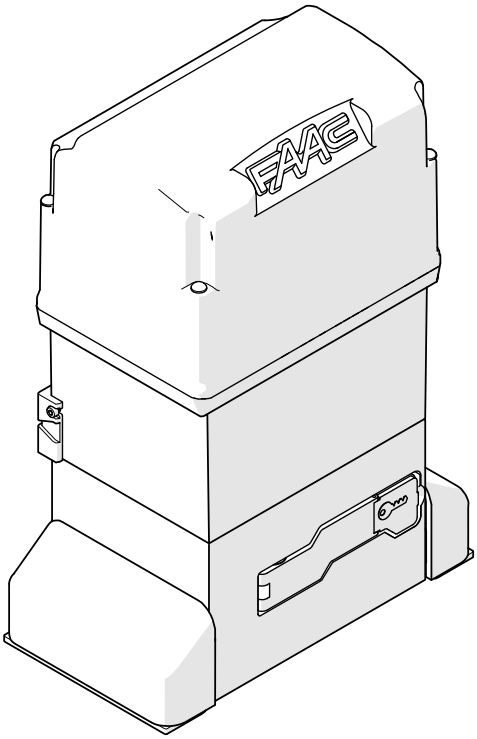
844
844 REV Z12

EN



FAAC

EN

Translation of the original instructions

This manual was published in 2024.

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CONTENTS

TABLES

ADDENDUM

1. INTRODUCTION TO THE INSTRUCTION MANUAL

This manual provides the correct procedures and requirements for installing 844/844 REV Z12 and maintaining it in a safe condition.
In Europe, the automation of a gate falls under the Machinery Directive 2006/42/EC and the corresponding harmonised standards. Anyone automating a gate (new or existing) is classified as the Manufacturer of the Machine. They are therefore required by law, among other things, to carry out a risk analysis of the machine (automatic gate in its entirety) and take protective measures to fulfil the essential safety requirements specified in Annex I of the Machinery Directive.
FAAC S.p.A. recommends that you always comply with the EN 12453 standard and in particular that you adopt the safety criteria and devices indicated, without exception, including the dead-man function.
This manual contains references to European standards. The automation of a gate must fully comply with any laws, standards and regulations applicable in the country where installation will take place.

Unless otherwise specified, the measurements provided in the instructions are in mm.

SAFETY WARNINGS FOR THE INSTALLER

Before starting the installation, read and comply with the "Safety warnings for the installer" booklet supplied with the product, and these installation instructions.

MEANING OF THE SYMBOLS USED

NOTES AND WARNINGS ON THE INSTRUCTIONS

WARNING - Details and specifications which must be respected in order to ensure that the system operates correctly.

RECYCLING AND DISPOSAL - The materials used in manufacturing, the batteries and any electronic components must not be sent to landfill. They must be taken to authorised recycling and disposal centres.

FIGURE E.g.: **1**-3 see Figure 1 - item 3.

TABLE E.g.: **1** see Table 1.

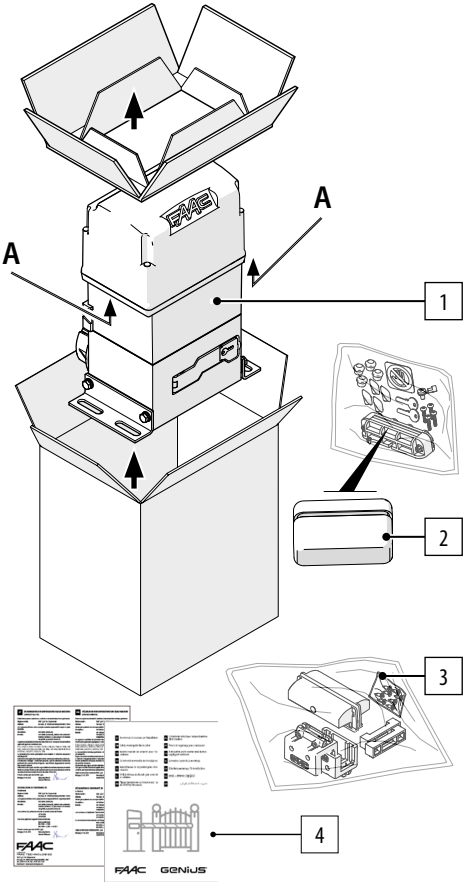
§ CHAPTER/SECTION E.g. § 1.1 see section 1.1.

2. 844 - 844 REV Z12

2.1 UNPACKING AND HANDLING

1. Open the package and remove the contents.
   - Do not lift the gearmotor by the cover. Grip the body of the gearmotor using the handholds **A**.
2. Check that all components are present and intact (See § Component identification).

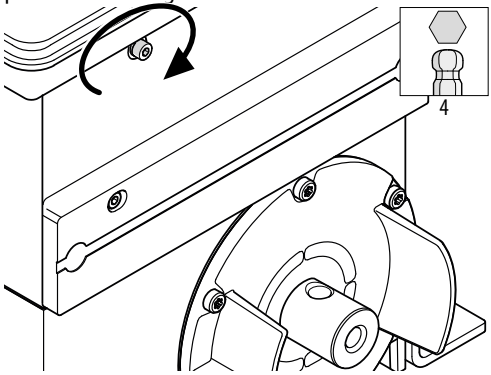
1	Gearmotor
2	Gearmotor bracket guards and Hardware/accessories
3	Limit switches
4	Supplied documentation



VENT CLOSURE

The gearmotor is supplied with the vent hole closed with a screw and washer.

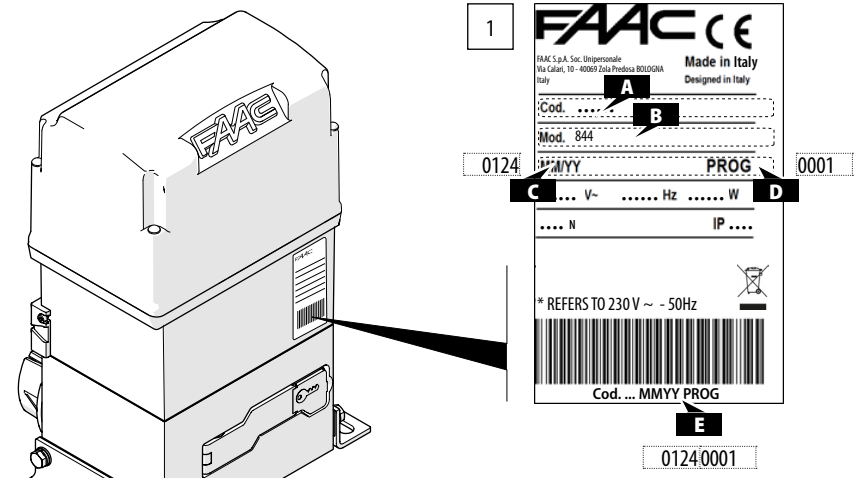
Whenever it is handled, the vent must be closed to prevent oil leaking out.



2.2 PRODUCT IDENTIFICATION

The product can be identified by label (1) that shows the gearmotor rating and identification plate information:

A	Sale code
B	Product name
C	Month and year of production Example: 0124 (January 2024)
D	Progressive number of the month of production Example: 0001
E	Identification number (C+D)



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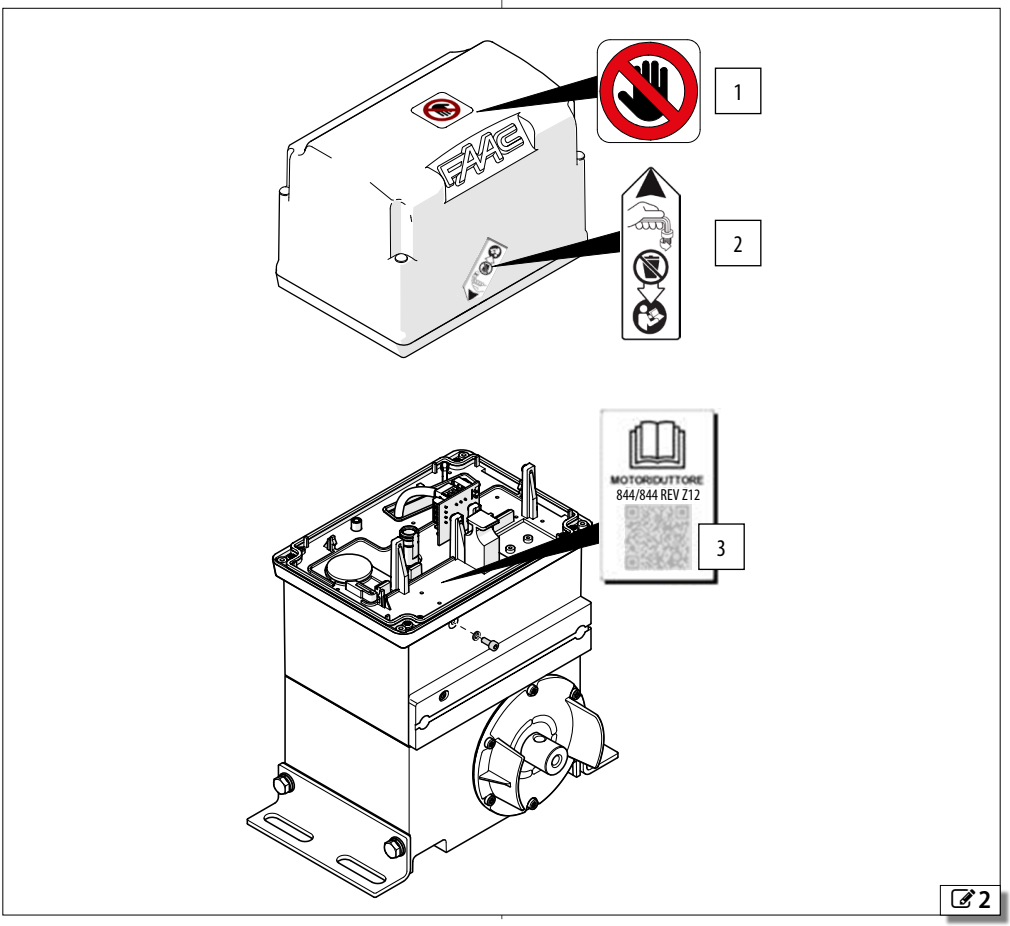
MARKINGS ON THE PRODUCT

1. Adhesive sign on the casing. It indicates the breather screw that must be removed before start-up.
2. The sticker must be placed on the casing by the installer. It indicates the risk of trapping fingers / hands due to the rotation of the pinion.
3. Sticker on the inside of the casing. Provides the QR code for direct access to the online manual.



2.3 INTENDED USE

FAAC series **844/844 REV Z12** gearmotors have been designed to control motorized horizontal movement sliding gates intended for installation in areas that are accessible to people, the main purpose of which is to provide safe access for goods, vehicles and people to industrial, commercial or residential buildings.

Only one gearmotor must be installed for each leaf. The system requires a special foundation plate (supplied separately) to be embedded in a plinth.

The gate must be moved via a drive pinion and a rack (supplied separately).

The gearmotor must be connected to a compatible remote electronic board (see the FAAC catalogue).

844 REV Z12 allows the gate to be moved manually when the motor is not in operation and requires an electric lock to ensure locking during closing.

To move the gate manually, follow the instructions in section § Manual operation.

Any other use that is not expressly specified in these instructions is prohibited and could affect the integrity of the product and/or represent a source of danger.

2.4 LIMITATIONS OF USE

The maximum force required to move the leaf by hand over its entire length of travel must be 225 N for residential areas and 260 N for industrial or commercial areas.

The maximum force required to start the movement must be less than the maximum torque at initial thrust of the operator indicated in the technical data.

The leaf must fall within the dimensional and weight limits indicated in the technical data.

The presence of weather conditions such as snow, ice and strong wind, even occasional, could affect the correct operation of the automation, the integrity of the components and be a potential source of danger (see § Emergency use).

844/844 REV Z12 is not designed to be a security (break-in protection) system.

If there is a pedestrian access gate integrated in the leaf of the gate, the motorised movement must be disabled when the pedestrian gate is not in a safe position.

The installation must be visible during the day and at night. If it is not, appropriate solutions must be provided to make the fixed and moving parts visible.

The 844/844 REV Z12 must be connected to a FAAC electronic board as indicated in this manual (Technical characteristics).

Implementing the automation requires the installation of the necessary safety devices, identified by the installer through an appropriate risk assessment of the installation site.

2.5 UNAUTHORISED USE

- Uses other than the intended use are prohibited.
- It is prohibited to install the automation system outside of the limits specified in the Technical Data and in the Mechanical and Electrical Installation Requirements.
- It is forbidden to use 844/844 REV Z12 in a constructional configuration other than the one provided by the manufacturer.
- No component part of the product may be modified.
- It is prohibited to install the automation system on escape routes.
- It is prohibited to install the automation system to create fire doors.
- It is prohibited to install the automation system in environments in which there is a risk of explosion and/or fire: the presence of flammable gases or fumes is a serious safety hazard (the product is not ATEX certified).
- It is prohibited to power the system with energy sources other than those specified.
- It is prohibited to integrate commercial systems and/or equipment other than those specified, or use them for purposes not intended and authorised by their respective manufacturers.
- Do not allow water jets of any type or size to come into direct contact with the gear motor.
- Do not expose the gear motor to corrosive chemicals or atmospheric agents.
- It is prohibited to use and/or install accessories which have not been specifically approved by FAAC S.p.A.
- It is prohibited to use the automation system before performing commissioning.
- It is prohibited to use the automation system in the presence of faults which could compromise safety.
- It is prohibited to use the automation system with the fixed and/or mobile guards removed or altered.
- Do not use the automation system unless the area of operation is free of persons, animals or objects.
- Do not enter/remain in the area of operation of the automation system while it is moving.
- Do not try to prevent the movement of the automation system.
- Do not climb on, hold onto or let yourself be pulled by the leaf. Do not climb onto the gear motor.
- Do not allow children to approach or play in the area of operation of the automation system.
- Do not allow the control devices to be used by anyone who is not specifically authorised and trained to do so.
- Do not allow the control devices to be used by children or persons with mental and physical deficiencies unless they are supervised by an adult who is responsible for their safety.
- During manual operation, gently guide the leaf the whole way, do not push it and let it slide freely.

2.6 EMERGENCY USE

In emergencies or if there is a fault, turn off the power supply to the automation. If the leaf can be moved safely by hand, use the MANUAL OPERATION mode; otherwise place the automation out of service until it has been reset/repaired.
In the case of a breakdown, the automation must be reset/repaired exclusively by the installer/maintenance technician.

2.7 MANUAL OPERATION

■ **844**

In order to operate the leaf manually, the gearmotor has to be released using the lever with key.

■ **844 REV Z12**

844 REV Z12 requires the electric lock to be released before the leaf can be moved manually. The gearmotor can also be disengaged to make it easier to move the leaf.

RELEASING THE GEARMOTOR

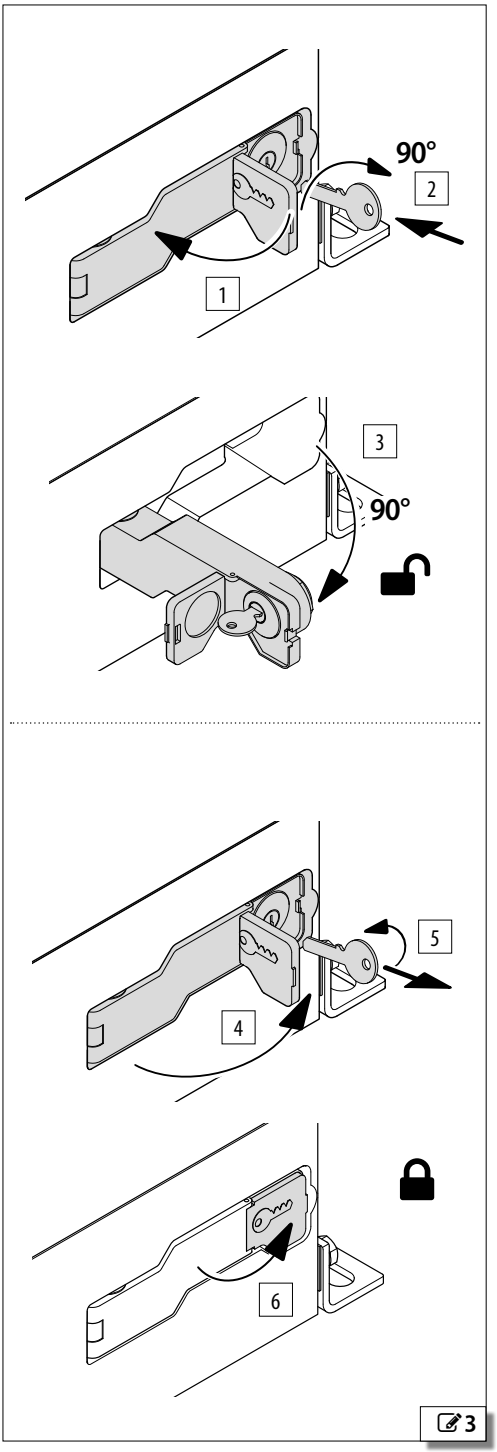
1. Open the lock cover.
2. Insert the key and turn it clockwise by 90°.
3. Open the release lever by 90°.

RESTORING OPERATION

Make sure that the gate is closed with the relative limit switch engaged before turning the power back on and operating the automation.

4. Close the release lever.
5. Turn the key so that it is vertical and remove it.
6. Close the lock cover.

Move the leaf manually to make sure that the mechanical system meshes correctly.



2.8 TECHNICAL SPECIFICATIONS

The product is an electromechanical gearmotor without a built-in electronic board and supplied with an 844 INTERFACE interface board to connect a compatible FAAC remote electronic board (see FAAC) catalogue.

VERSIONS

Versions 844/ 844 REV Z12 differ according to the reversibility of the pinion.

■ 844	■ 844 REV Z12
IRREVERSIBLE SYSTEM In order to be operated manually, the gearmotor has to be released using the lever with key.	**REVERSIBLE SYSTEM (electric lock supplied separately)** An electric lock, not supplied, is required to lock the leaf in the closed position (and open position, if the electronic board can handle this option). For manual operation, simply release the electric lock. The gearmotor can also be disengaged to make it easier to move the leaf.
PINION SUPPLIED SEPARATELY Requires a pinion (Z16 or Z20, Module 4 see FAAC catalogue) compatible with the weight and speed characteristics of the leaf to be installed, see table ▦ Technical Data.	**PINION Z12** The gearmotor is supplied with a Z12 Module 4 pinion.

OIL-BATH LUBRICATION

Oil bath lubrication ensures very silent operation, high heat dissipation and reduced wear and high frequency of use.

MAGNETIC OPENING/CLOSING LIMIT SWITCHES

Magnetic limit switches are highly reliable, due to the absence of moving mechanical parts and micro switches.

1 Technical data (refer to 230 V~ @50 Hz) and electronic board 578D/E145S

■ **844**

Power supply voltage	220 - 240 V~ @50/60 Hz
Max power	660 W
Pinion supplied separately	choice of Z16, Z20 - Module 4
Max torque at initial thrust	606 N (Z16) 485 N (Z20)
Max thrust force	1300 N (Z16) 1040 N (Z20)
Max leaf weight	1800 kg (Z16) 1000 kg (Z20)
Max leaf speed	9.6 m/min (Z16) 12 m/min (Z20)
Max leaf length	40 m (Z16) 50 m (Z20)
Stopping space	45 millimeters
Type of use	Industrial/Commercial/Residential
Use frequency	55 cycles/hour (Z16) 65 cycles/hour (Z20)
Protection rating	IP44
Ambient operating temperature	-20°C - +55°C
Thrust capacitor	18 µF
Thermal protection	120°C automatic rearming
Gearmotor weight	15.4 kg
Sound pressure LpA	≤ 70 dB(A)
Oil	supplied by FAAC

■ **844 REV Z12**

Power supply voltage	220 - 240 V~ @50/60 Hz
Max power	550 W
Pinion	Z12 Module 4
Max torque at initial thrust	500 N
Max thrust force	710 N
Max leaf weight	1000 kg
Max leaf speed	11.3 m/min
Max leaf length	45 m
Stopping space	90 mm (with SAFE input and 578D board)
Type of use	Industrial/Commercial/Residential
Use frequency	55 cycles/h
Protection rating	IP44
Ambient operating temperature	-20°C - +55°C
Thrust capacitor	25 µF
Thermal protection	120°C automatic rearming
Gearmotor weight	15.5 kg
Sound pressure LpA	≤ 70 dB(A)
Oil	supplied by FAAC

2.9 COMPONENT IDENTIFICATION

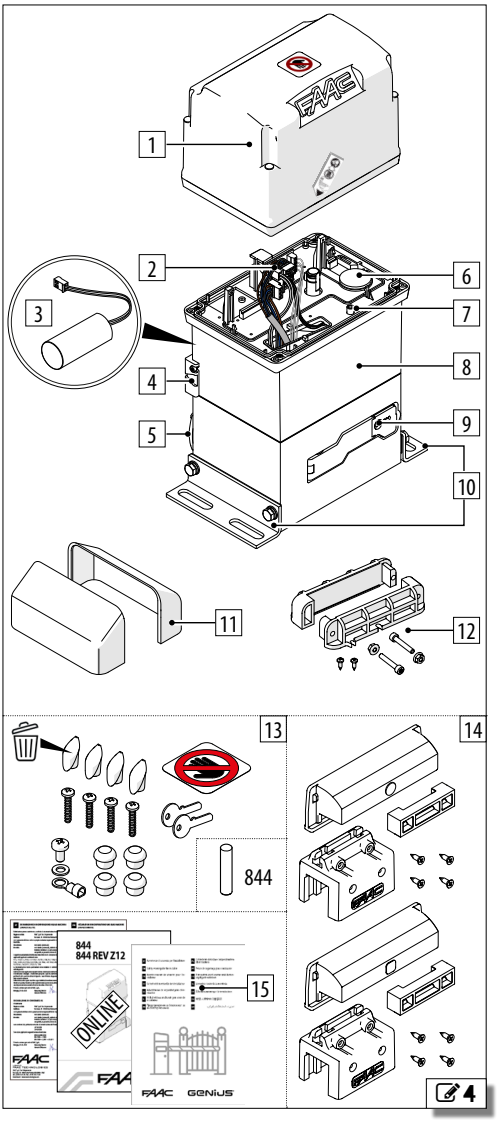
COMPONENTS SUPPLIED

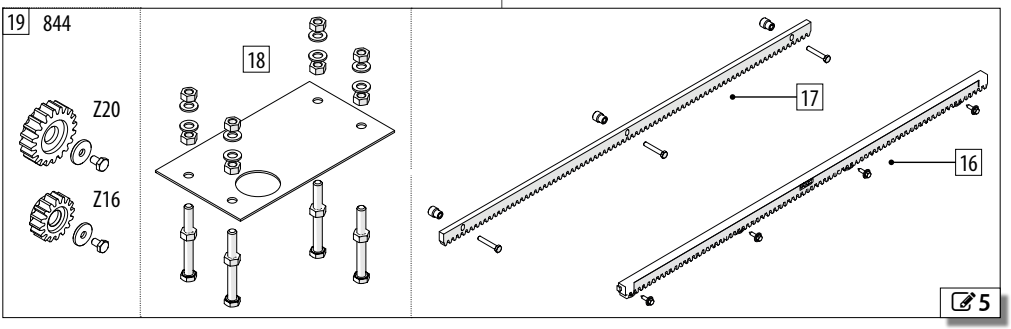
Gearmotor	
1	Casing
2	Board 844 INTERFACE
3	Thrust capacitor (inside the body)
4	Limit switch sensor
5	Pinion Z12 if 844 REV Z12 (supplied separately if 844)
6	Oil filler plug
7	Earth connector
8	Gearmotor body
9	Release lever with key
10	Mounting brackets
Hardware/accessories	
11	Mounting bracket guards
12	Cable glands to install in the cable compartment
13	Pack: pinion fixing pin (for 844), screws and screw covers for the cover, cable lug for earth cable and adhesive hazard warning sticker, release key
14	Closing and opening magnetic limit switches
15	Supplied documentation (hard copy and online)

COMPONENTS SUPPLIED SEPARATELY

The installation requires the following FAAC components.

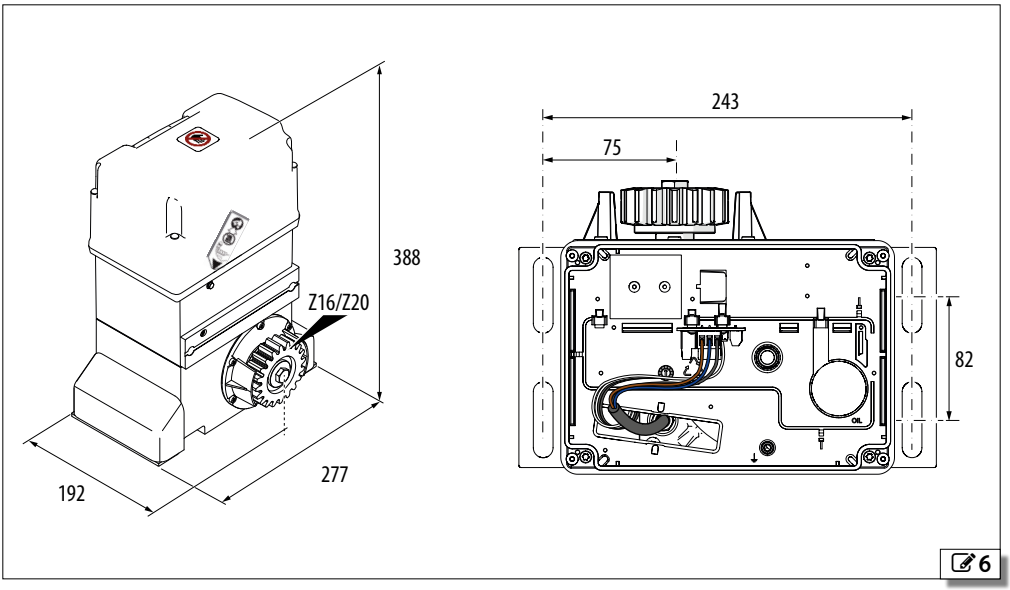
16 **17**	Nylon rack with mounting hardware (for leaves weighing up to 400 kg max) and Self-tapping screw kit/Steel rack with spacers (for leaves weighing more than 400 kg)
18	Foundation plate with mounting hardware
19	Pinion (for 844) Module 4, Z20/Z16 (fixing pin supplied with the hardware)
Electric lock with coupling plate (for 844 REV Z12)	
Remote electronic board (see FAAC catalogue)	
DANGER, AUTOMATIC MOVEMENT warning sign	





2.10 DIMENSIONS

■ **844**



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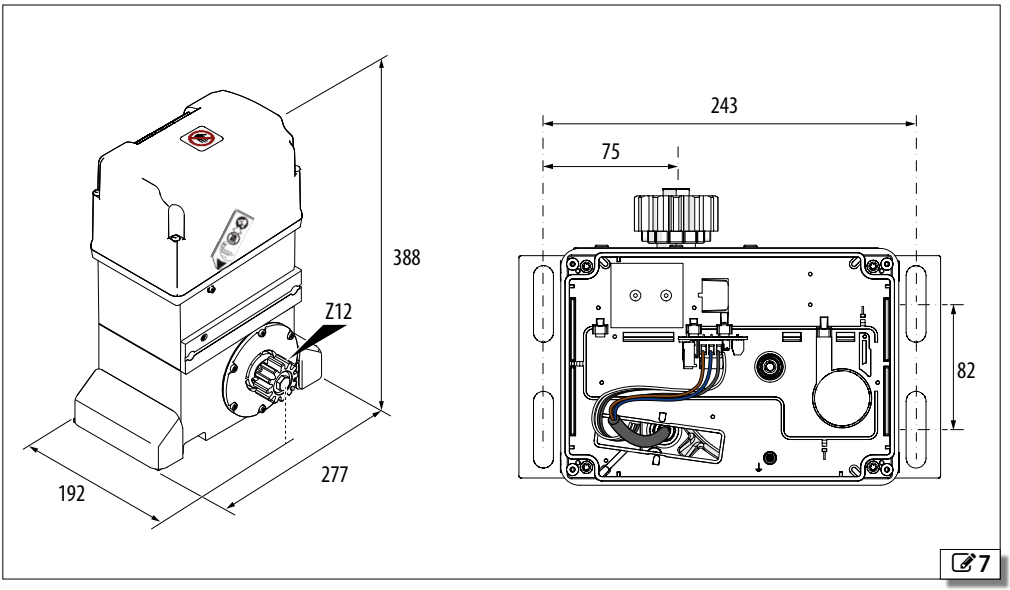
■ **844 REV Z12**



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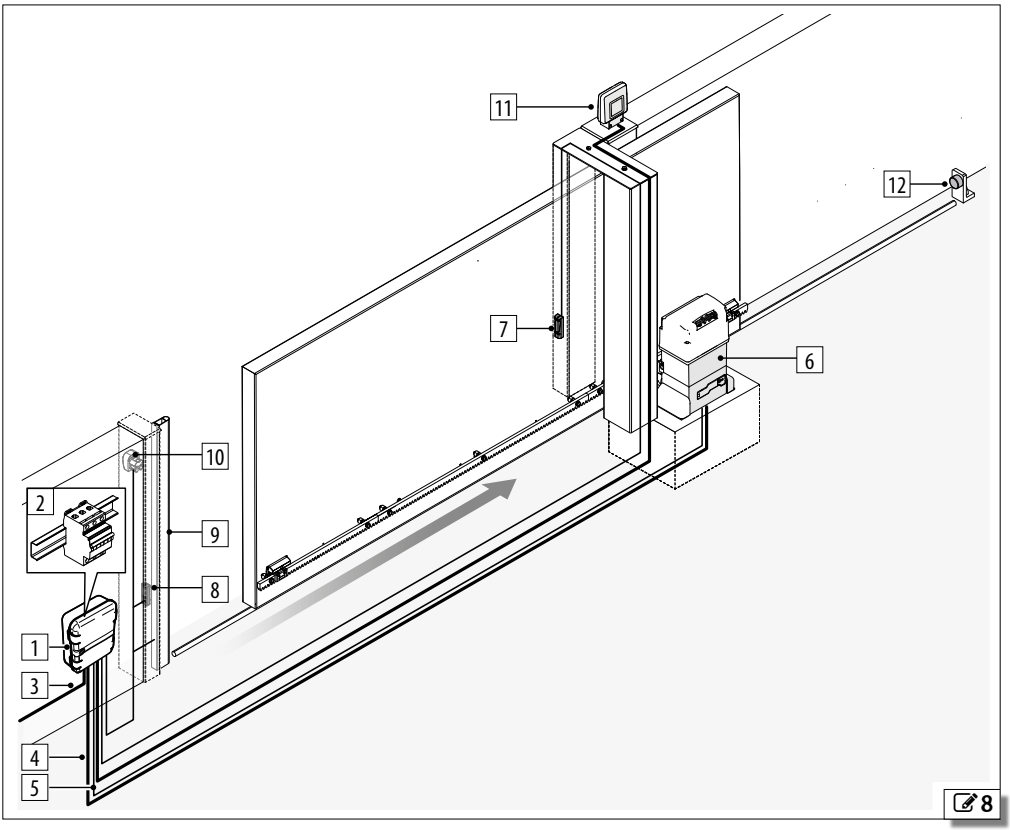
2.11 EXAMPLE SYSTEM

The example is an illustration only and is just one of the possible applications.

1	Enclosure with electronic board	
2	Circuit breaker and differential switch	
3	Mains power supply	3G 1.5 mm² (max 2.5 mm²)
4	Gearmotor power supply	3x1.5 mm² (grey or blue, black, brown)
5	Limit switch cables	3x0.5 mm²
6	Gearmotor	
7	Photocell TX	
8	Photocell RX	
9	Sensitive edges	
10	Key button	
11	Flashing light	
12	Mechanical stop	

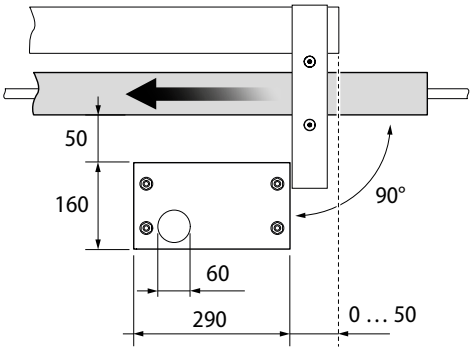
Also, for 844 REV Z12, connect the electric lock to the electronic board.



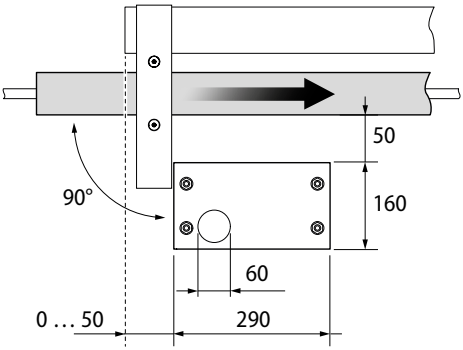
2.12 INSTALLATION DIMENSIONS

■ **FOUNDATION PLATE**

Opening to the left

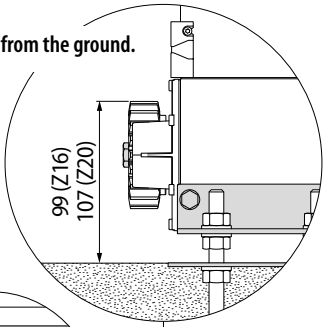


Opening to the right

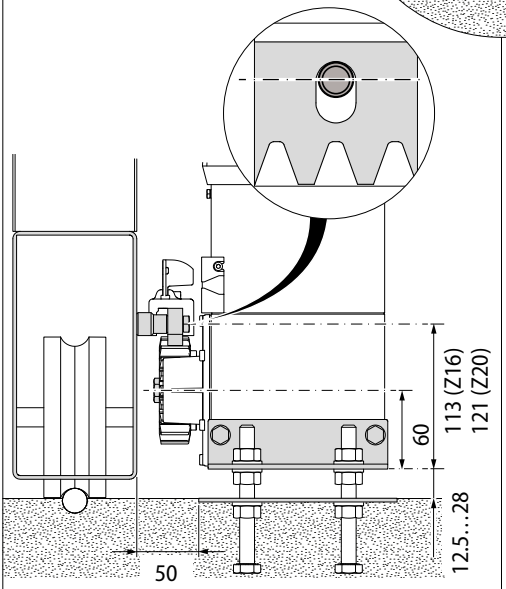


844

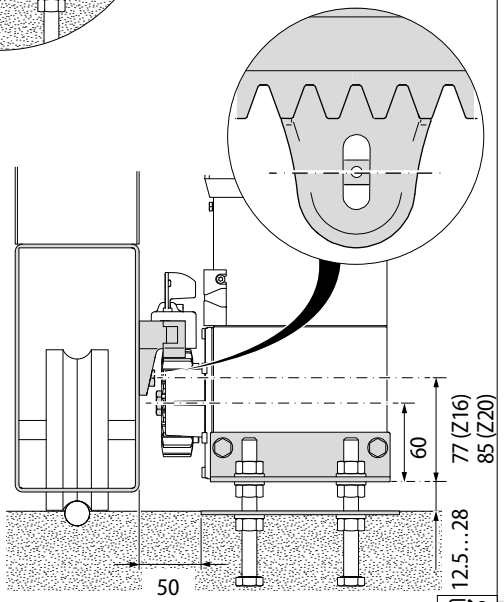
Height of the upper edge of the pinion from the ground.



■ **Steel rack**



■ **Nylon rack**



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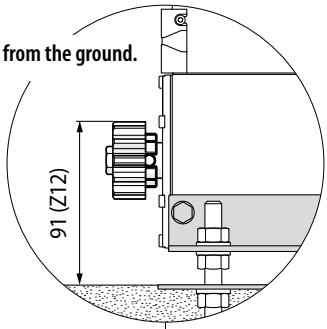
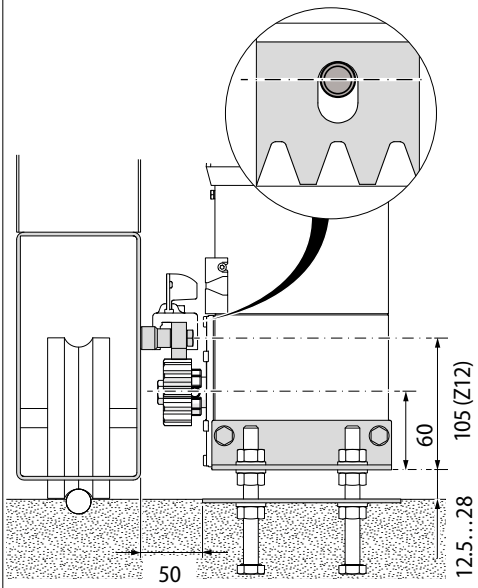
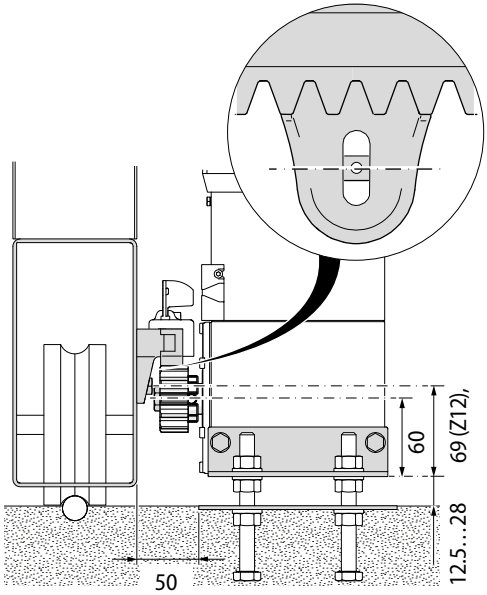
Height of the upper edge of the pinion from the ground.



■ **Steel rack**



■ **Nylon rack**



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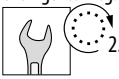
3. MECHANICAL INSTALLATION

TOOLS REQUIRED

Spanner 7-19	Allen key 3
Level	Angle grinder
Screw clamp	Welder (for steel rack to be welded on)
Drill bit for metal 5, 6.5	Thread cutter (for screw-on steel rack) M8
	Phillips screwdrivers 3, 8

TORQUE ADJUSTMENT -comply with fastening torque indicated in the figure. E.g.: Spanner 7 set at 2.5 Nm



3.1 INSTALLING THE FOUNDATION PLATE

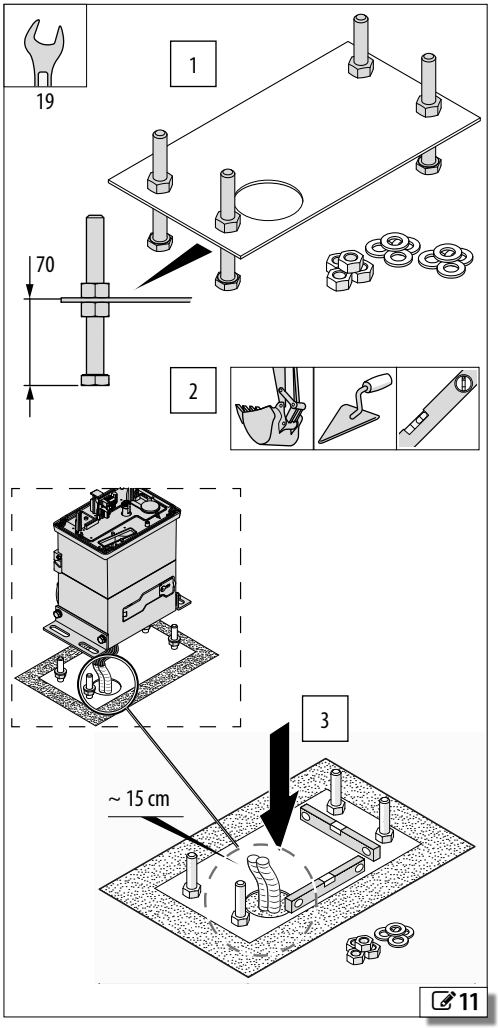
The product must be installed with the foundation plate.

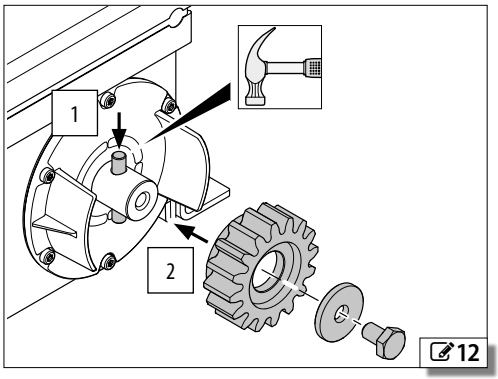
Before proceeding, the cable conduits must be laid.

1. Assemble the foundation plate.
2. Make the hole in the ground. Make sure that the cable conduits protrude by approximately 15 cm, in the correct position with respect to the gearmotor and fill will concrete.
3. Place the plate at the centre of the foundation, leaving its surface uncovered.
   - Clean any concrete from the surface of the plate and the nuts with washers so that they can be subsequently adjusted.
   - Check the plate is horizontal using a spirit level.
4. Wait for the concrete to set.

3.2 INSTALLING THE PINION ON 844

1. Insert the pin into the drive shaft.
2. Insert the pinion and secure it using the washer provided.





3.3 INSTALLING THE GEARMOTOR

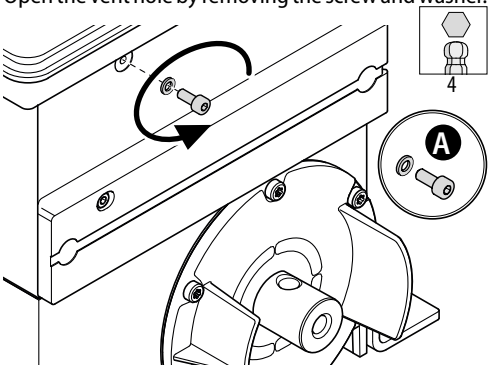
1. Make sure that the concrete of the plinth has set completely, then adjust all the support nuts to the height indicated in figure (**H**).
2. Place the washers on the nuts. Remove the casing from the gearmotor. Position the gearmotor in correspondence with the 4 fasteners.
   - Pass the electric cables through the hole on the base so that they protrude by approximately 70 cm.

Be careful not to damage the electrical cable tubes.

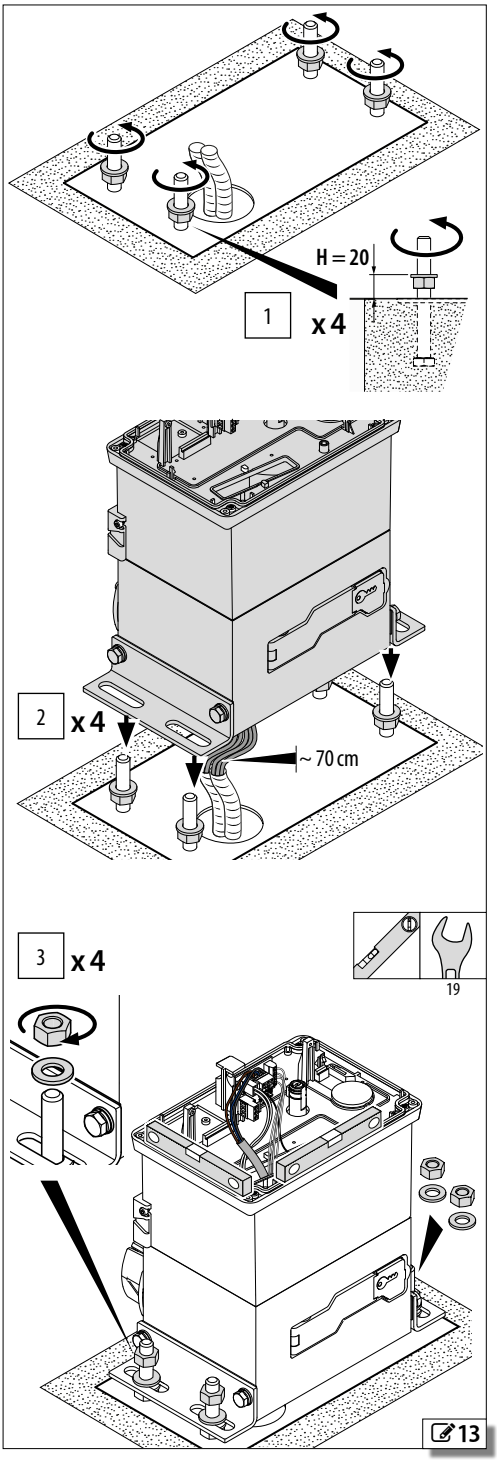
3. Make sure that the gearmotor is level. Insert the washers and nuts.
   - Do not tighten the nuts so that the height can be adjusted when the rack is being installed.

OPEN THE VENT HOLE

Open the vent hole by removing the screw and washer.



A few drops of oil may leak out after the vent hole has been opened, even due to the initial movements.
Keep the screw and washer (**A**) as they will have to be reinstalled before removing the gearmotor, if necessary.



3.4 INSTALLING THE RACK

- DO NOT weld the spacers onto the racks.
- DO NOT weld the elements of the rack together.
- DO NOT apply grease or other lubricants to the racks.

STEEL RACK - WELD-ON FASTENINGS

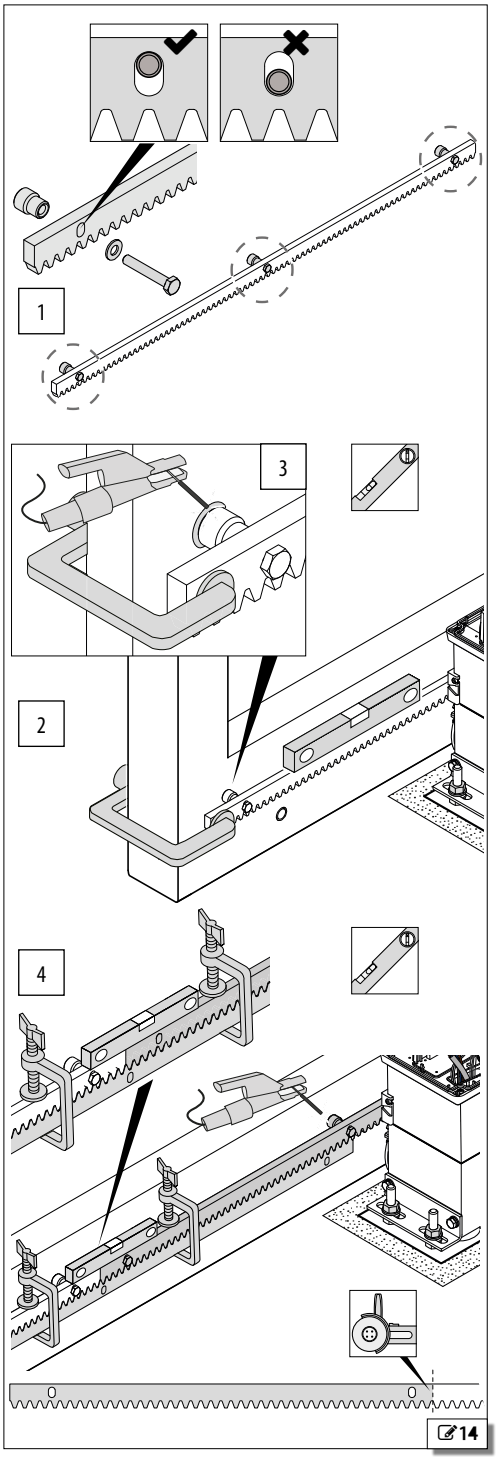
Rack thickness: 8 mm for leaves weighing up to 400 kg max 12 mm for leaves weighing more than 400 kg.

1. Screw 3 spacers onto each element of the rack, positioned so that they touch the top of the slots. Open the leaf manually.
2. Rest an element on the pinion. Check that it is horizontal and secure it to the leaf using a screw clamp.
3. Weld the first spacer to the leaf and then move the leaf with the rack resting on the pinion. Make sure that it is horizontal and weld on the other spacers.

Protect the gearmotor from weld spatter. DO NOT connect the earth of the welder to the gearmotor.

4. Move the leaf. Connect the next element (use screw clamps and a support). Rest it on the pinion, make sure that it is horizontal, and weld the spacers. Remove the screw clamps and repeat the procedure to complete the rack.

If an element of the rack has to be shortened, cut it with an angle grinder so that you leave two fastening points.



STEEL RACK - SCREW-ON FASTENINGS

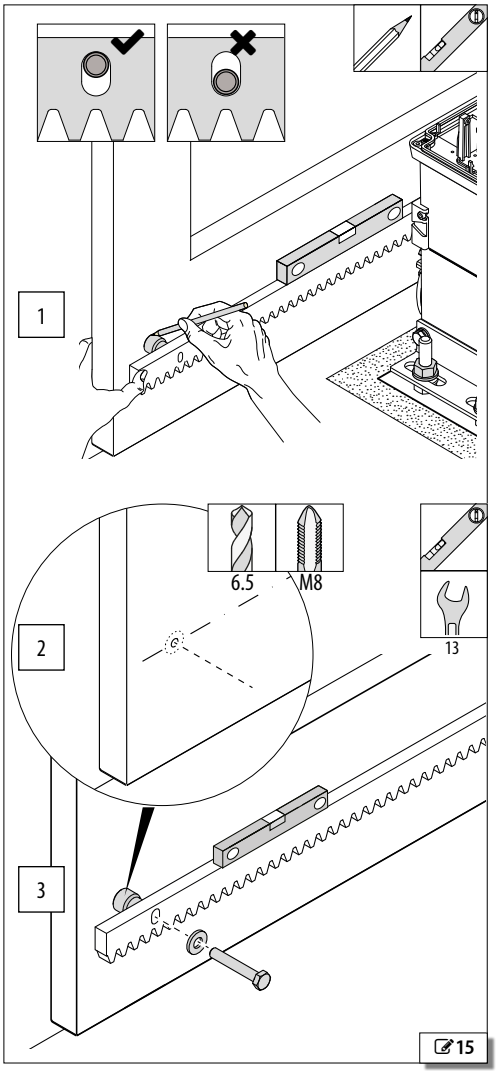
Rack thickness: 8 mm for leaves weighing up to 400 kg max 12 mm for leaves weighing more than 400 kg.

The rack installation accessories contain screws for aluminium or steel leaves. Use specific screws for other materials.

1. Open the leaf manually. Rest an element on the pinion. Place a spacer between the rack and the leaf so that it touches the top of the slot. Check that it is horizontal. Mark the position of the hole to be drilled on the leaf.
2. Drill the hole and make a thread in it.
3. Fasten using the screw and washer. Move the leaf with the rack resting on the pinion. Make sure that it is horizontal and fasten the other spacers.
4. Move the leaf manually. Connect the next element (use screw clamps and a support).
5. Rest it on the pinion, make sure that it is horizontal, and fasten the spacers.

Remove the screw clamps and repeat the procedure to complete the rack.

If an element of the rack has to be shortened, cut it with an angle grinder so that you leave two fastening points.



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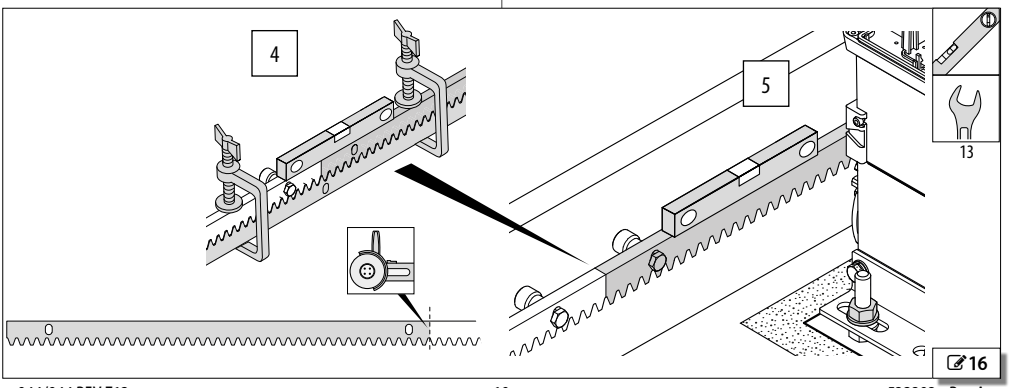


16

NYLON RACK

Rack thickness: 20 mm for leaves weighing up to 400 kg max.

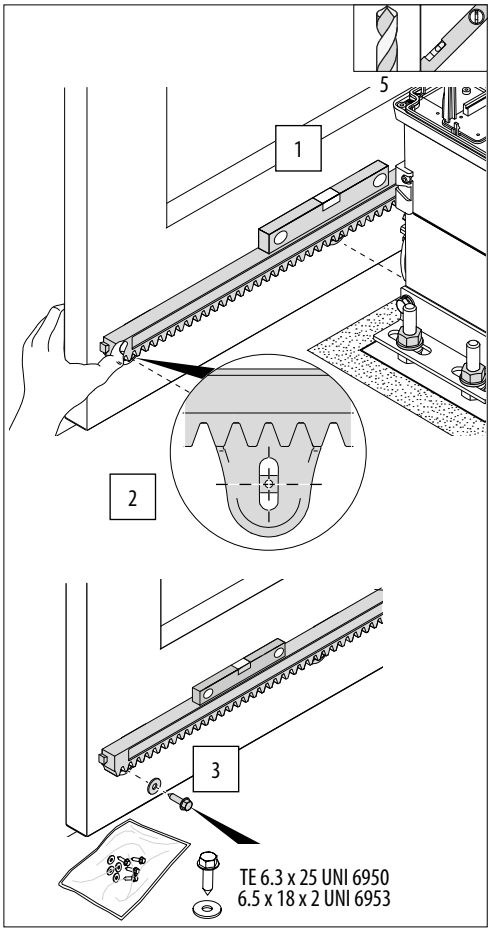
1. Close the leaf manually. Rest an element of the rack on the pinion. Make sure that it is horizontal using a spirit level.
2. Drill holes at the centre of the slots.
3. Fasten using suitable screws and washers.

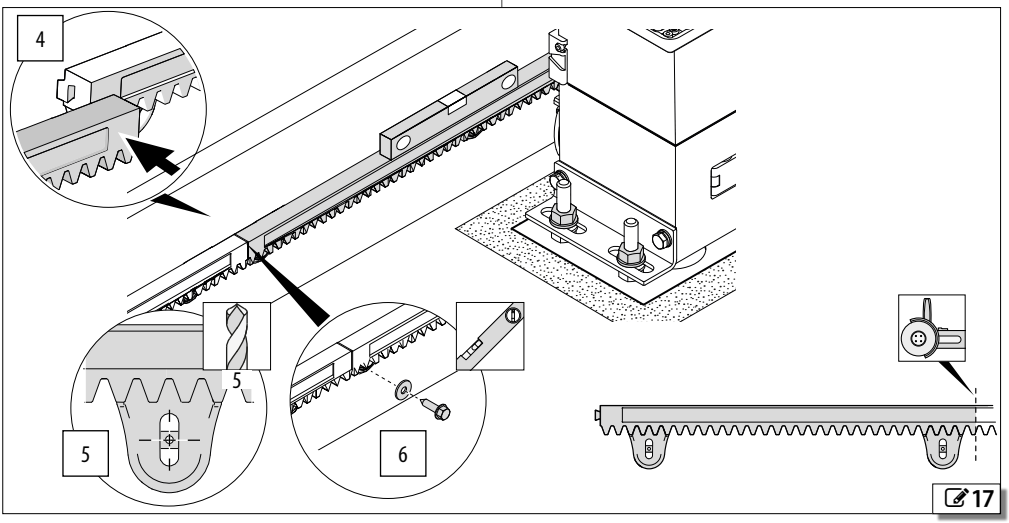
Self-tapping screws and washers are available for aluminium or steel and should be ordered separately.

4. Move the leaf manually. Install the next interlocking section at the end of the previous one and rest it on the pinion. Make sure that it is horizontal using a spirit level.
5. Drill holes at the centre of the slots.
6. Fasten using suitable screws and washers.

Repeat the procedure to complete the rack.

If an element has to be shortened, cut it with an angle grinder so that you leave two fastening points.





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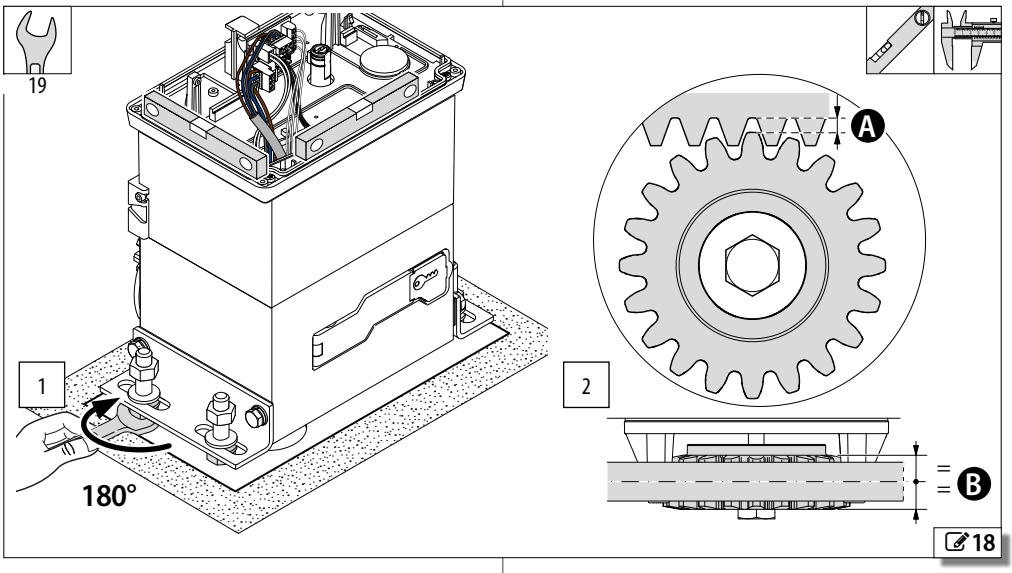
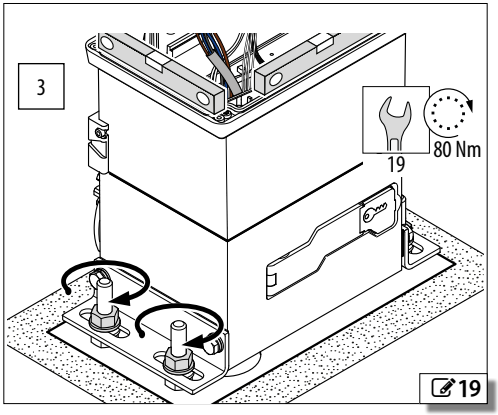
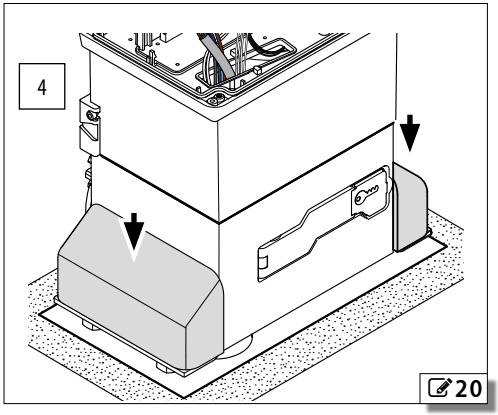
3.5 ADJUSTING AND FASTENING PERMANENTLY

In order for it to work correctly, the rack must never rest on the pinion.

1. Lower the gearmotor: turn the 4 support nuts clockwise by half a turn (a constant distance (**A**) between pinion and rack is obtained for the entire length of travel.
2. Carry out the following checks (move the leaf manually to check the entire length of travel and all the elements of the rack).
   - Distance (**A**): with the gearmotor locked, it must be possible to rock the leaf manually to the left and right by a few millimetres.
   - Gearmotor levelling: use a spirit level.
   - Centring (**B**) the rack and pinion.
3. Tighten the upper nuts to the fastening torques indicated in the figure.
4. Press the guards onto the brackets.





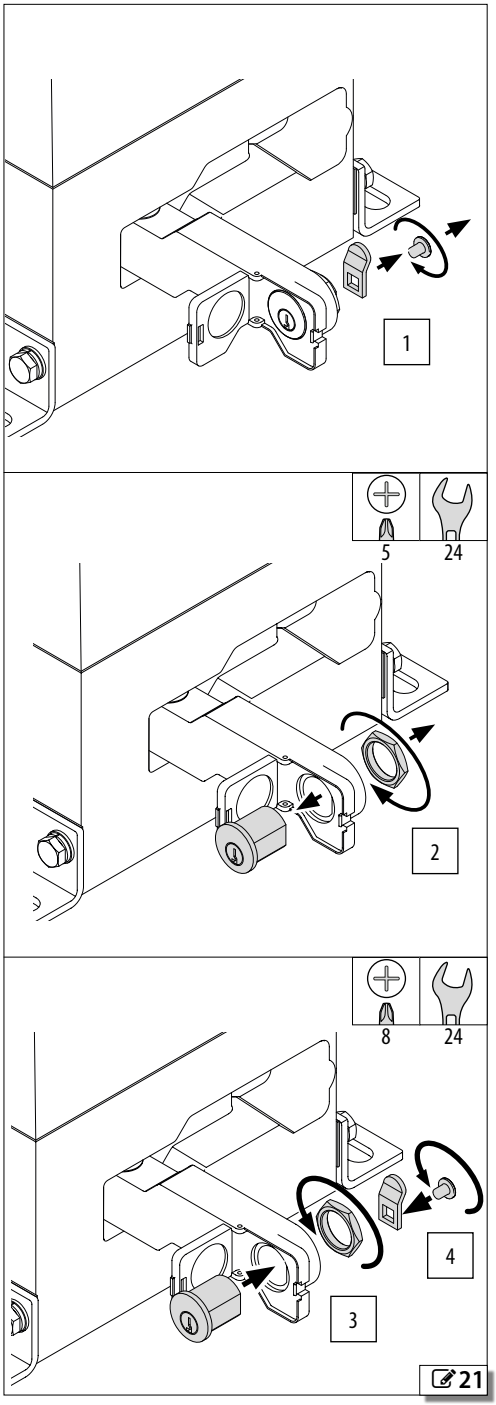


4. OPTIONAL EQUIPMENT

4.1 LOCK WITH PERSONALISED KEY

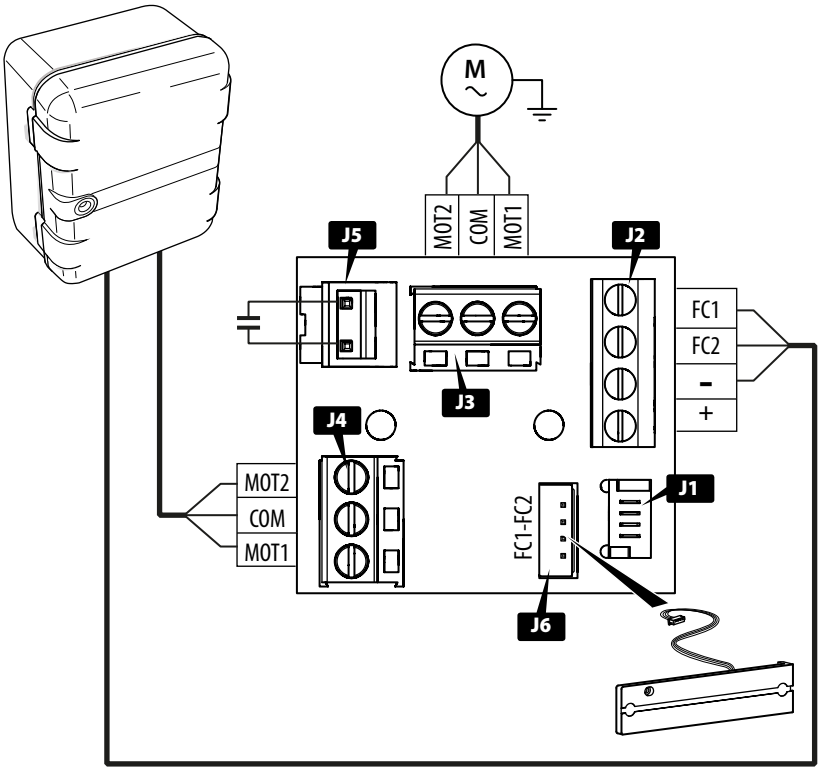
1. Remove the existing lock: open the release lever using the key and then remove the screw and the locking lever.
2. Remove the nut and the existing lock.
3. Install the new lock and fasten it using the nut.
4. Insert the locking lever vertically and fasten it using the screw.

Use the new key to make sure that the release lever works.



5. ELECTRONIC INSTALLATION

5.1 844 INTERFACE



J1	Connector for inductive limit switch - NOT USED		
J2	Terminal board for connecting the limit switch to the electronic board		
J3	Terminal board for connecting the motor (connected at the factory)		
J4	Terminal board for connecting the motor to the electronic board		
	COM	Common	(grey or blue)
	MOT1	Phase	(black)
	MOT2	Phase	(brown)
J5	Connector for thrust capacitor (connected at the factory)		
J6	Connector for magnetic limit switch (connected at the factory)		

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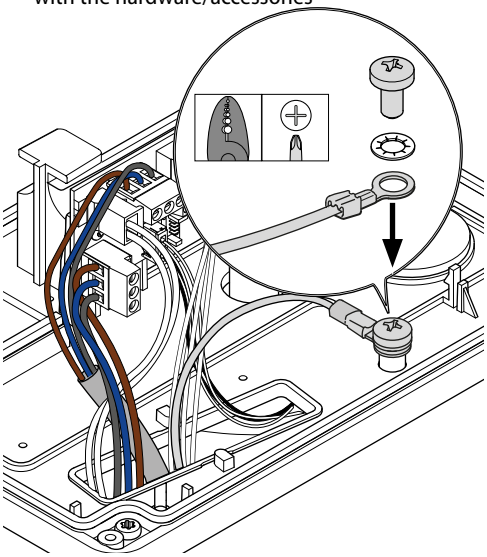
5.2 CONNECTIONS

844 INTERFACE is connected at the factory to the motor, thrust capacitor and the magnetic limit switch sensor.

With the power supply disconnected:

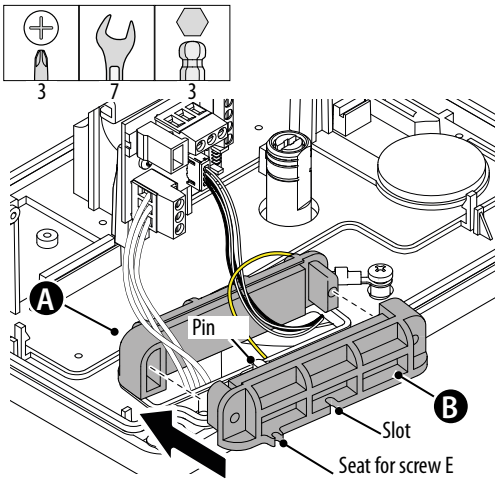
1. Connect the wiring between the 844 INTERFACE and the remote electronic board (see relative instructions).
2. Connect the earth to the gearmotor:
   - crimp the system earthing conductor cable (G minimum 1.5 mm²), approximately 20 cm long, to the cable lug (provided with the hardware/accessories)
   - connect to terminal **PE**
   - fasten the cable lug to the earth connection of the gearmotor using the screw and washer provided with the hardware/accessories



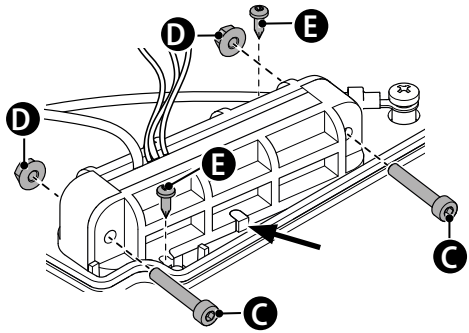
3. Connect the accessory devices to the electronic board.
4. Connect the mains power supply to the electronic board.

5.3 INSTALLING THE CABLE GLANDS

1. Arrange the individual electrical cables on the rubber strip of elements **A** and **B**. Join the elements and position them on the surface, each with the slot inserted in the pin.



2. Tighten them using the screws **C** and nuts **D**, and then secure it to the surface using the screws **E**.



5.4 INSTALLING THE LIMIT SWITCHES

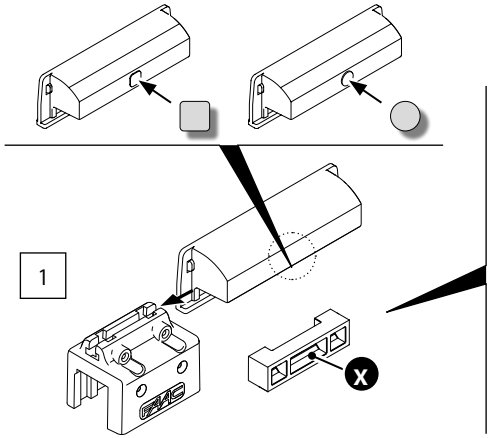
The two limit switches are marked with different symbols, SQUARE / CIRCLE.

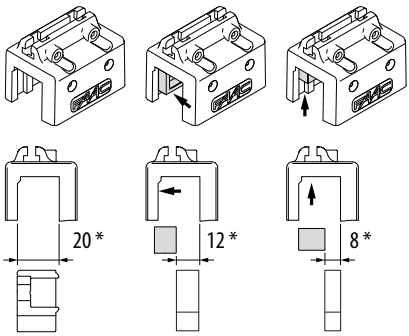
Mount the limit switches after connecting the power supply, following the instructions supplied with the electronic board used in figure **23**.

1. Assemble the limit switches. Insert the spacer (**x**) (if necessary) as indicated according to the thickness of the rack.
2. Release the gearmotor and open the leaf manually in order to install the opening limit switch. Position the opening limit switch (**2-A**) at the end of the rack as indicated, according to the opening direction of the leaf. Slide the limit switch along the rack in the opening direction until the corresponding LED on the electronic board turns off. Slide the limit switch along the rack for another 4 cm.
3. Fasten using the 4 screws provided (**C**, then **D**).

Carry out the same procedure to install the closing limit switch. Close the leaf manually and position the closing limit switch (**2-B**) at the end of the rack as indicated in the figure, according to the opening direction of the leaf. Slide the limit switch along the rack in the closing direction until the corresponding LED on the electronic board turns off. Slide the limit switch along the rack for another 4 cm. Fasten using the 4 screws provided (**C**, then **D**).

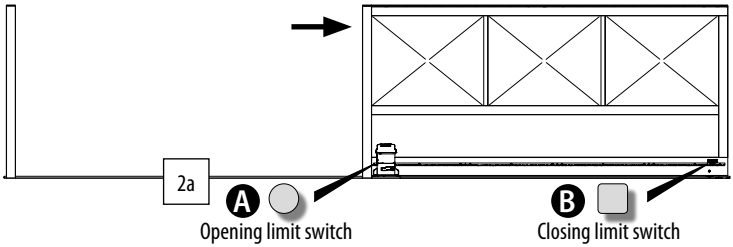
At the end of the procedure, restore gearmotor operation.



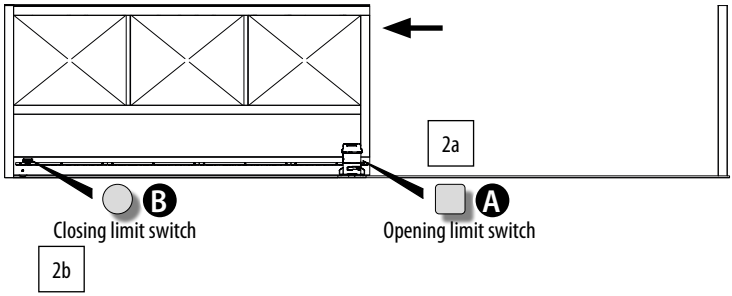


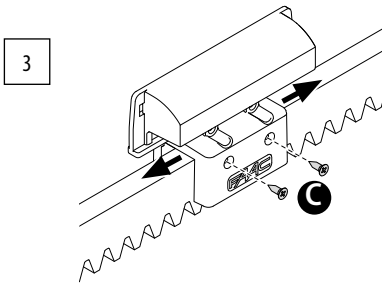
* Rack thickness

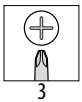
Opening to the right



Opening to the left







3
2.9 x 9.5 UNI 6955

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6. PUTTING INTO SERVICE

6.1 FINAL OPERATIONS

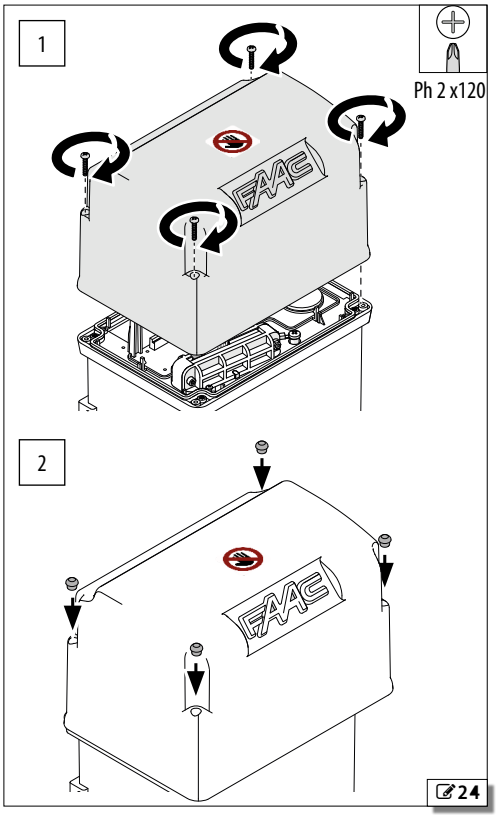
1. Carry out the start-up procedure following the instructions of the electronic board used.
2. Carry out a complete functional test of the automation and all the installed devices.
3. Make sure that the forces generated by the leaf are within the limits permitted by the current regulations. Use an impact force tester in accordance with standard EN 12453. For non-EU countries, if there are no specific local regulations, the static force must be less than 150 N. If necessary, adjust the anti-crushing system and make any other adjustments that may be necessary.
4. Make sure that the maximum force required to move the leaf manually is less than 225 N in residential areas and 260 N in industrial or commercial areas.
5. Highlight all areas with adequate warning signs in which there are still residual risks, even if all possible safety measures having been adopted.
6. Place a "DANGER, AUTOMATIC MOVEMENT" sign (not supplied) in a prominent position on the gate.
7. Attach the CE marking to the gate.
8. Fill out the EC declaration of conformity and the system register.
9. Give the EC Declaration, the system register with the maintenance plan and the instructions for use of the automation to the system owner/operator.

6.2 INSTALLING THE COVER

Install the cover once the gearmotor has been start-up.

Apply the adhesive sign to the cover: risk of fingers and hands being trapped due to the rotation of the pinion and the movement of the rack.

1. Install and fasten the casing.
2. Press the screw caps on.



7. MAINTENANCE

7.1 SCHEDULED MAINTENANCE

It is mandatory to carry out the operations indicated in table ⊞ Maintenance of 844/844 REV Z12, in order to keep the operator working reliably and safely.

The installer/machine manufacturer is responsible for drawing up the maintenance plan for the machine, supplementing this list or shortening maintenance intervals according to the machine characteristics and current local regulations.

⊞ **2** Scheduled maintenance

Maintenance 844/844 REV Z12	**Frequency(months)**
Check that the cover/casing and all the movable guards are integral and that they are fastened correctly. Tighten screws and bolts where necessary.	12
Check that the body of the operator is undamaged.	12
Check the fastening torque of the brackets and screws that secure the gearmotor to the foundation plate.	12
Check the wear of the pinion (replace if necessary).	12
Check that the pinion and rack engage correctly and that the distance between them is correct.	12
Check that it is irreversible (NOT applicable to 844 REV Z12).	12
Make sure that there is no oil leaking from the seals.	12
Check that the limit switches are intact and their correct operation and adjustment.	12
Check that the cable glands in the cable compartment are intact and that they work correctly.	12
Make sure that the manual release is working correctly.	12
Check that the hand-hazard warning sticker is present and intact.	12
Generally clean the gearmotor with a clean cloth, moistened with a neutral detergent.	12
Check that the connectors and wiring are intact. Check that there are no signs of overheating, burning etc. of electronic components.	12
Check that the earth connections are intact and that the circuit breaker and differential switch are working correctly.	12
Maintenance of other components	**Frequency in months**
STRUCTURES	
Check the plinth, the structures and components of the building/fence adjacent to the automation, ensuring there is no damage, cracking or subsidence.	See manufacturer's instructions
Check the gate's area of movement, ensuring it is free from obstacles, objects or deposits which would reduce the effectiveness of the safety measures.	See manufacturer's instructions
Check that there are no gaps in the perimeter fence and that any protective grilles in the area where it overlaps with the mobile leaf are intact.	See manufacturer's instructions
Ensure that there are no sharp protrusions which could represent a perforation or hooking hazard.	See manufacturer's instructions
Check the leaf guide and the anti-tipping column, ensuring they are correctly fastened and intact.	See manufacturer's instructions
Perform a general clean of the area of movement of the gate.	See manufacturer's instructions
Check that the sliding guide is straight and not excessively worn.	See manufacturer's instructions
Check that the mechanical stops are fastened solidly and in good condition. This check must be performed on both sides, simulating any knocks which could occur during use.	See manufacturer's instructions

GATE	
Check the frame: make sure that it is fixed correctly, that it is intact and that there is no deformation or damage. Tighten screws and bolts where necessary.	See manufacturer's instructions
Check the leaf: make sure that it is intact and that there is no deformation or damage.	See manufacturer's instructions
Check that the pedestrian gate integrated in the leaf is intact (if present).	See manufacturer's instructions
Check that the bearings are in good condition and there is no friction. Check the wheels, ensuring that they are intact, correctly fastened and free of deformation, wear and rust.	See manufacturer's instructions
Check the rack, ensure it is straight, not worn, that it is the correct distance from the pinion along its entire length and correctly fastened to the gate.	12
Cantilever gate, check the solidity of the guide system for the suspended leaf and the counterweight, if present.	See manufacturer's instructions
Perform a general clean of the area of movement of the gate.	12
Make sure that the pictograms are present and intact. If they are missing or damaged, replace them.	12
PROTECTIVE DEVICES AND CONTROL DEVICES	
Check that the protective devices are intact and that they operate correctly.	See manufacturer's instructions
Check that the control devices are intact and that they operate correctly.	See manufacturer's instructions
Check that each pair of photocells is working correctly and that there is no optical/light interference between the pairs of photocells.	6
Check that indicator lights are intact that they are working correctly, if present.	See manufacturer's instructions
Check the integrity, fixing and correct operation of the electric lock (only 844 REV Z12).	See manufacturer's instructions
GATE COMPLETE WITH GEARMOTOR	
Check that the gate operates properly in both directions with all the devices installed.	6
Check that the gate moves correctly - smooth, regular and without making abnormal l noises.	6
Check that both the opening and closing speed are correct and that the expected stop and slowdown positions are correct.	6
Check that the safety devices (e.g. sensitive edges) are working correctly, if present.	6
Repeat the operations in the "Final checks" section.	6
Check that the gate's CE marking and the DANGER, AUTOMATIC MOVEMENT warning sign is present, intact and legible.	12

8. INSTRUCTIONS FOR USE

It is the installer's responsibility to provide the operator of the automation system with the instructions for use, maintenance and disposal, incorporating the following information and following the instructions supplied with the electronic board used.

8.1 EMERGENCY USE

In emergencies or if there is a fault, turn off the power supply to the automation. If the leaf can be moved safely by hand, use the MANUAL OPERATION mode; otherwise place the automation out of service until it has been reset/repaired.
In the case of a breakdown, the automation must be reset/repaired exclusively by the installer/maintenance technician.

8.2 MANUAL OPERATION

In order to operate the leaf manually, the gearmotor has to be released using the lever with key.

RELEASING THE GEARMOTOR

1. Open the lock cover.
2. Insert the key and turn it clockwise by 90°.
3. Open the release lever by 90°.

During manual operation, gently guide the leaf the whole way. Do not push it and let it slide freely.
Do not leave the gearmotor in the released mode: restore automatic operation after moving it manually.

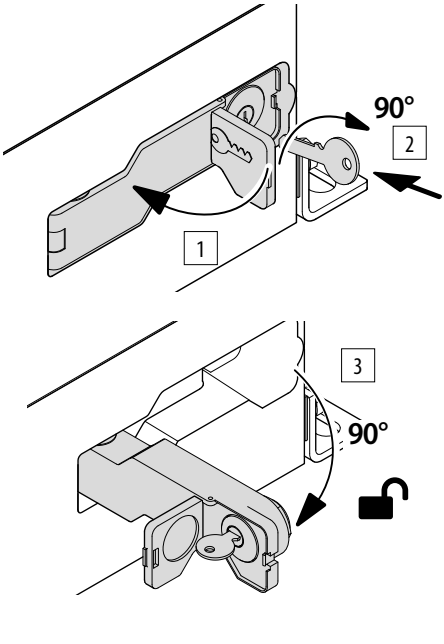
RESTORING OPERATION

Make sure that the gate is closed with the relative limit switch engaged before turning the power back on and operating the automation.

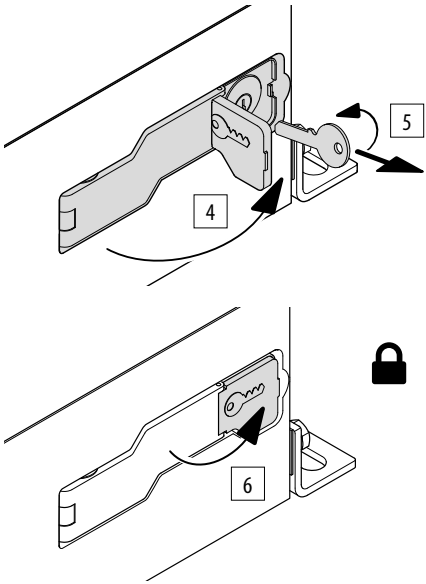
4. Close the release lever.
5. Turn the key so that it is vertical and remove it.
6. Close the lock cover.

Move the leaf manually to make sure that the mechanical system meshes correctly.

Releasing the gearmotor



Restoring operation



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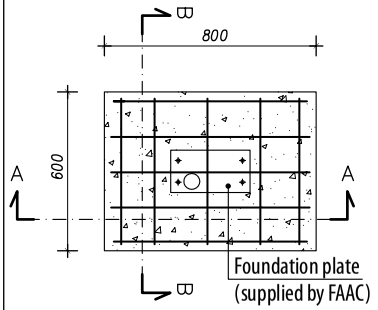
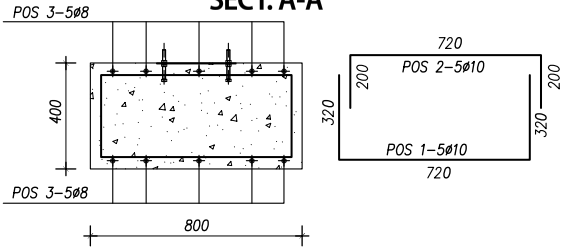
PLAN VIEW

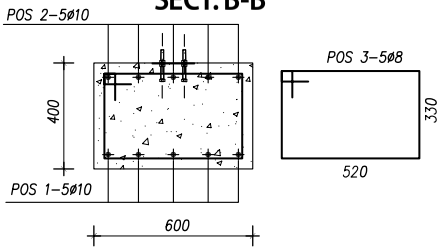


REINFORCEMENTS

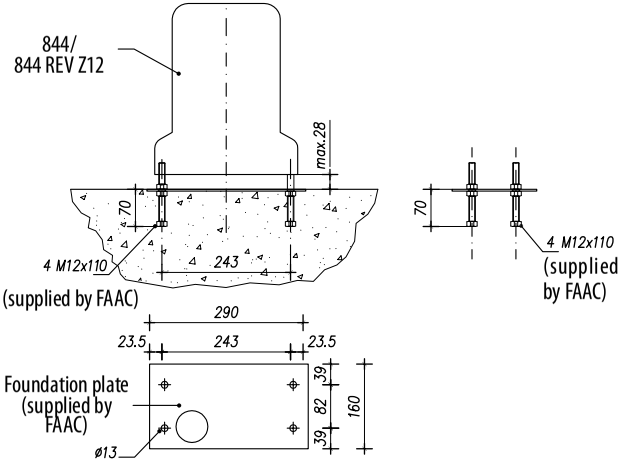
SECT. A-A



SECT. B-B

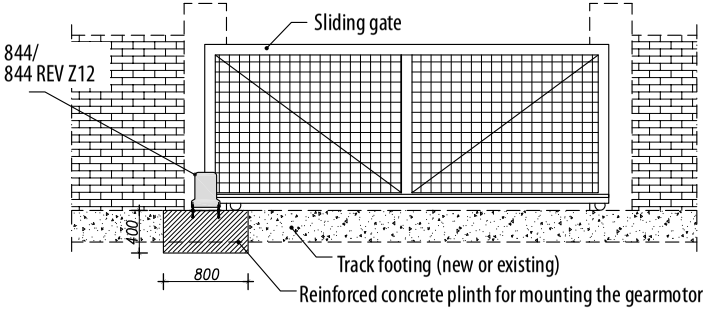


FOUNDATION PLATE ANCHORING

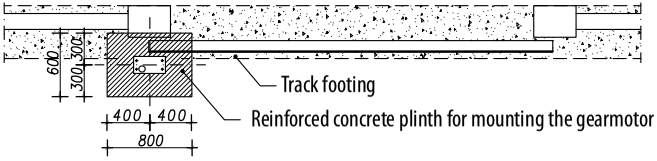


PLINTH POSITIONING DIAGRAM

FRONT VIEW



PLAN VIEW



MATERIALS

CONCRETE	RESISTANCE CLASS	EXPOSURE CLASS
	C 25/30	XC2
REINFORCED CONCRETE STEEL	B 450C	

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