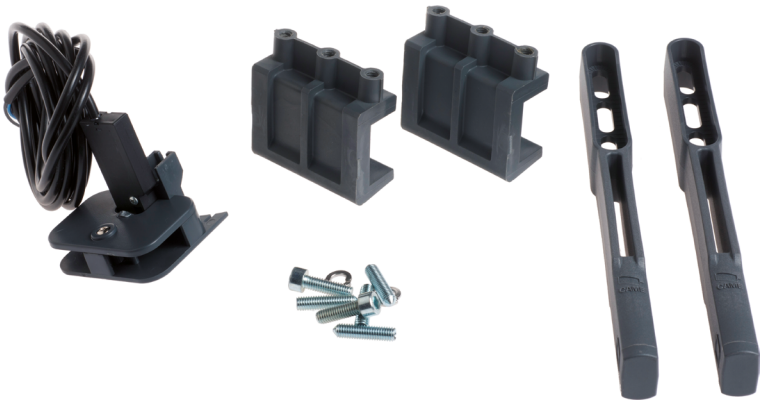
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FA01273-EN

Magnetic limit-switch system for BXV and BKV operators



RSDN002

INSTALLATION MANUAL

EN English

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GENERAL PRECAUTIONS

Read the instructions carefully before beginning the installation and carry out the procedures as specified by the manufacturer. • Installation, programming, commissioning and maintenance must only be carried out by qualified, expert technicians and in full compliance with the applicable law. • Wear anti-static clothing and footwear if performing work on the circuit board. • Only use this product for its intended purpose. Any other use is hazardous. • The manufacturer cannot be held liable for any damage caused by improper, unreasonable or erroneous use. • Also check the warnings in the installation and use manuals for the operator the product is associated with. • Make sure the mains power supply is disconnected during all installation procedures. • This product complies with the applicable standards in force at the time of manufacturing.

Dismantling and disposal

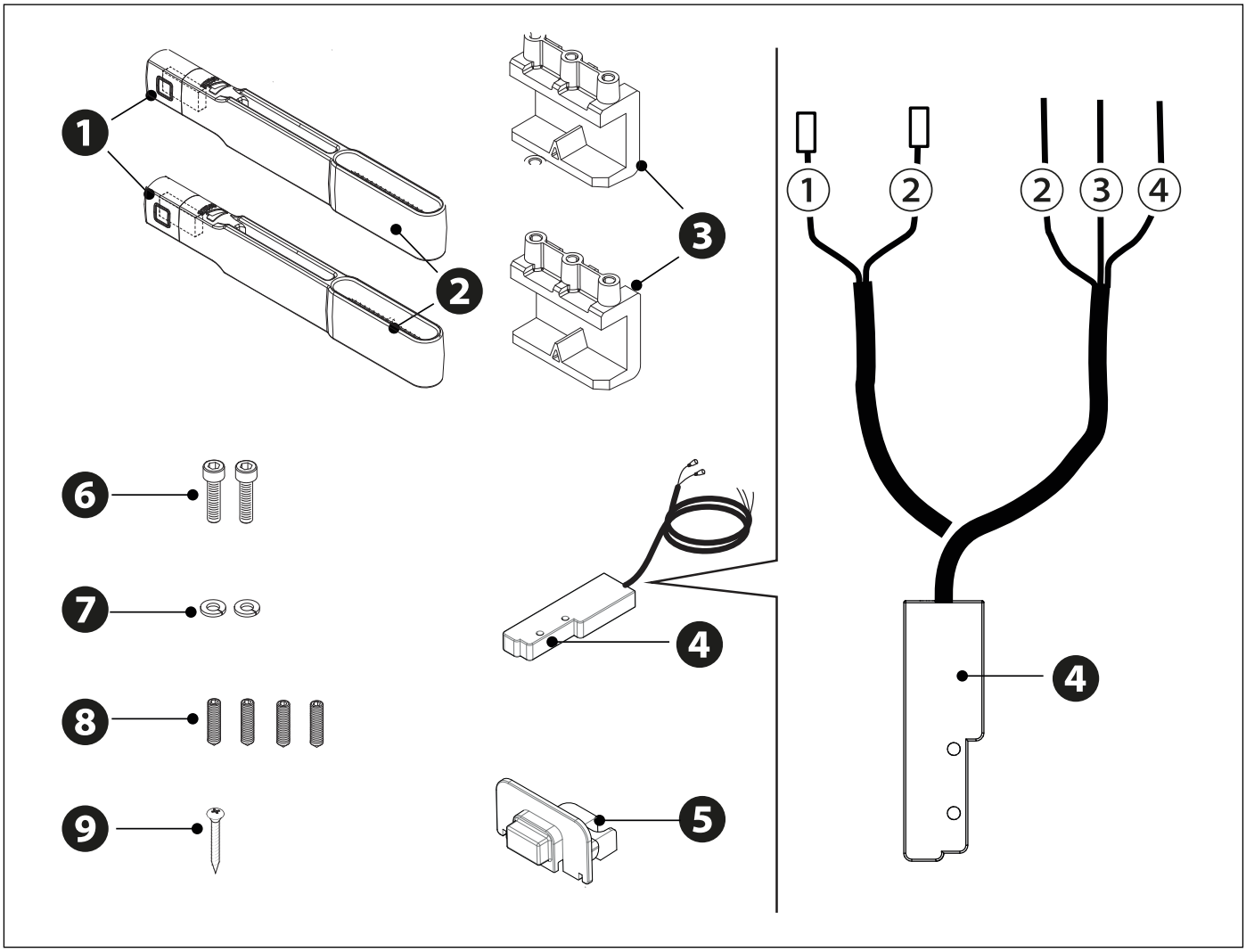
Dispose of the packaging and the device responsibly at the end of its life cycle, in compliance with the laws in force in the country where the product is used. The recyclable components are marked with the material symbol and ID.
THE DATA AND INFORMATION IN THIS MANUAL MAY BE CHANGED AT ANY TIME AND WITHOUT NOTICE.
MEASUREMENTS ARE IN MILLIMETRES, UNLESS STATED OTHERWISE.

Description

Magnetic limit-switch system for operators used in critical weather conditions.

Description of parts

❶ Magnets
❷ Tabs
❸ Supports
❹ Magnetic sensor
❺ Magnetic-sensor support
❻ Fastening screws M6X20
❼ Washers Ø 6
❽ Grub screws M6X25
❾ Self-tapping screw 2.9X16
① Blue wire
② Red wire
③ Brown wire
④ Black wire

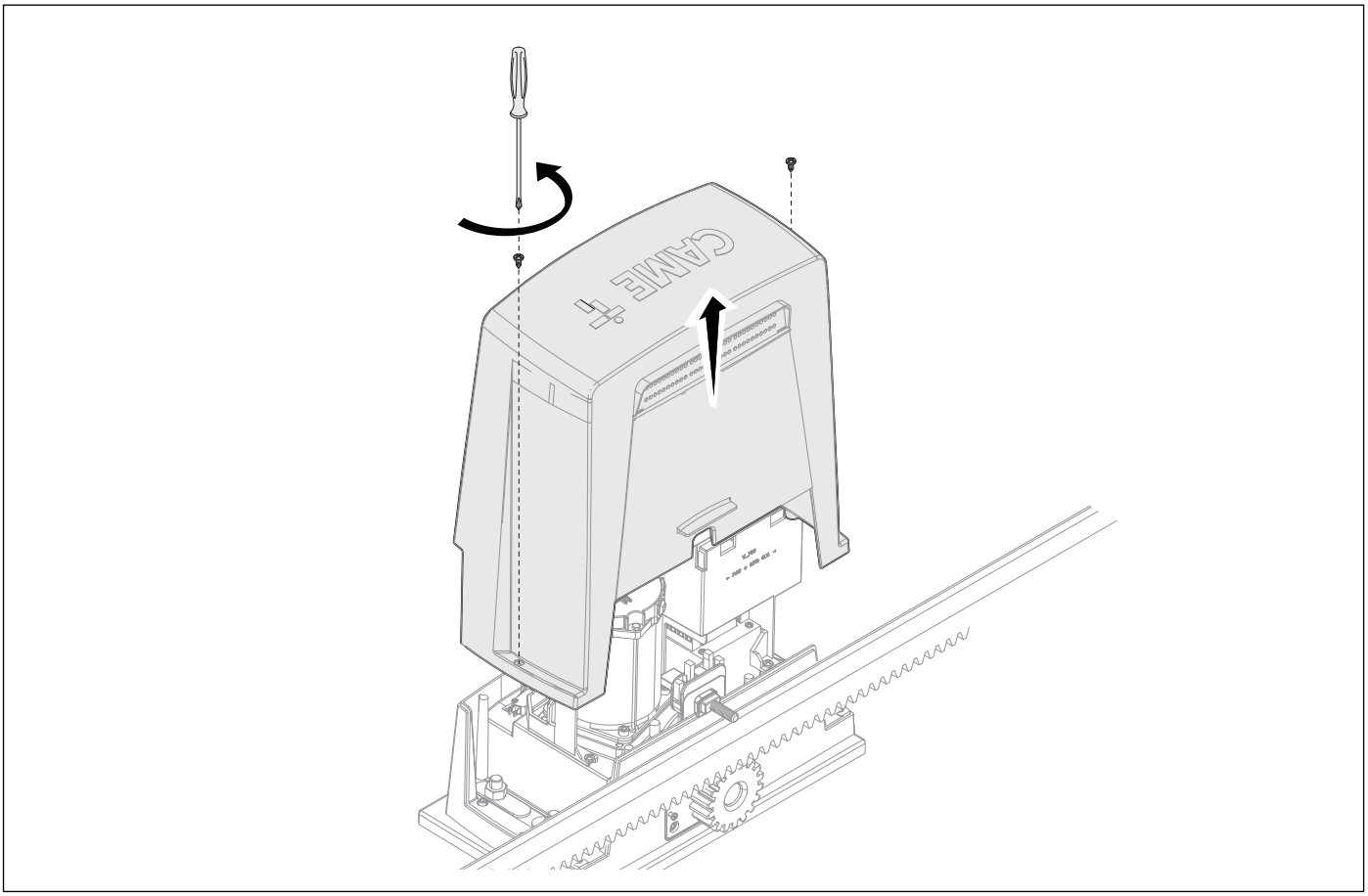


Technical data

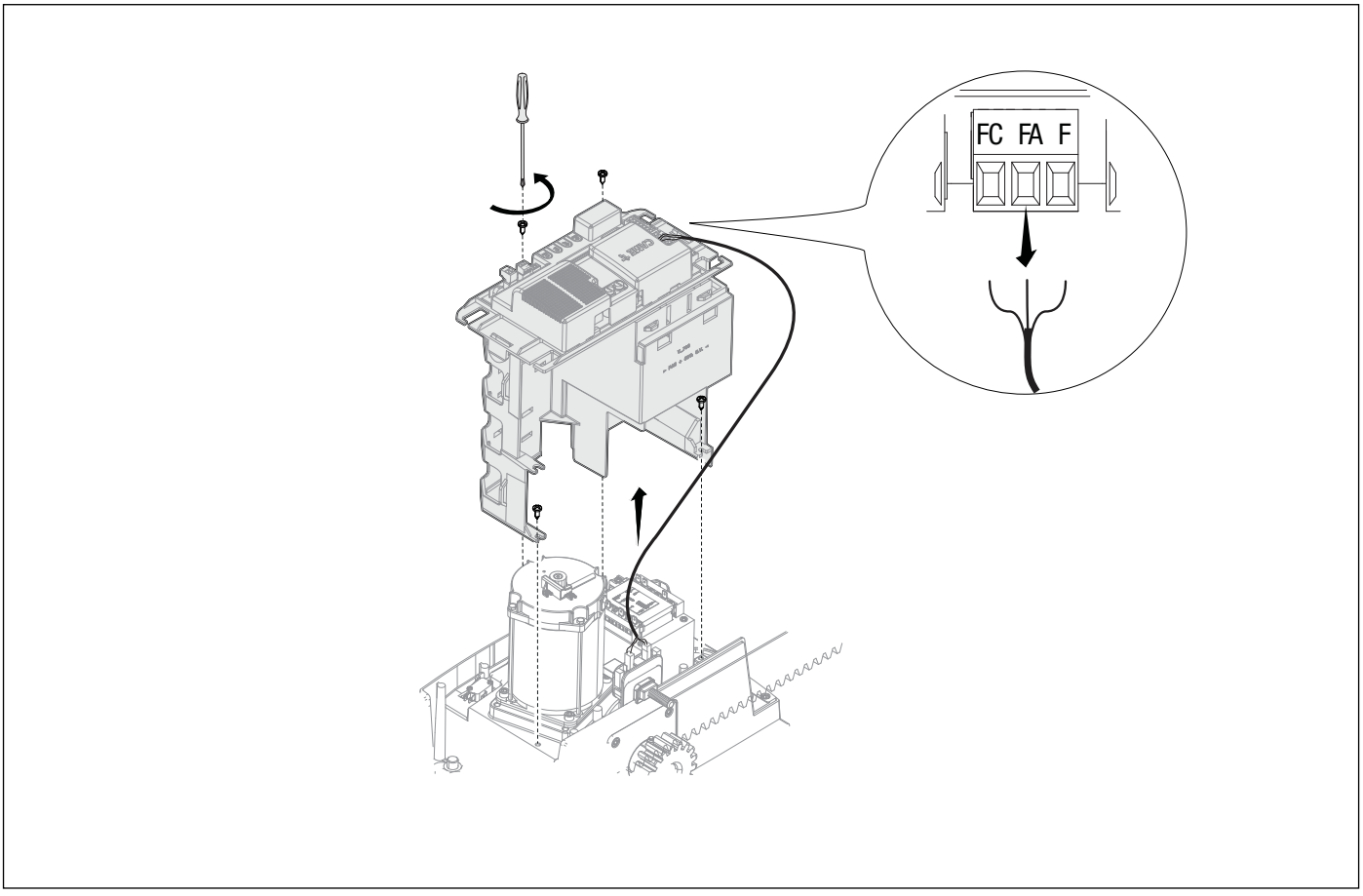
MODELS	RSDN002
Current draw (A)	0.5
Operating temperature (°C)	-20 ÷ +55
Duty cycle (%)	HEAVY-DUTY SERVICE
Protection rating (IP)	54

Installation

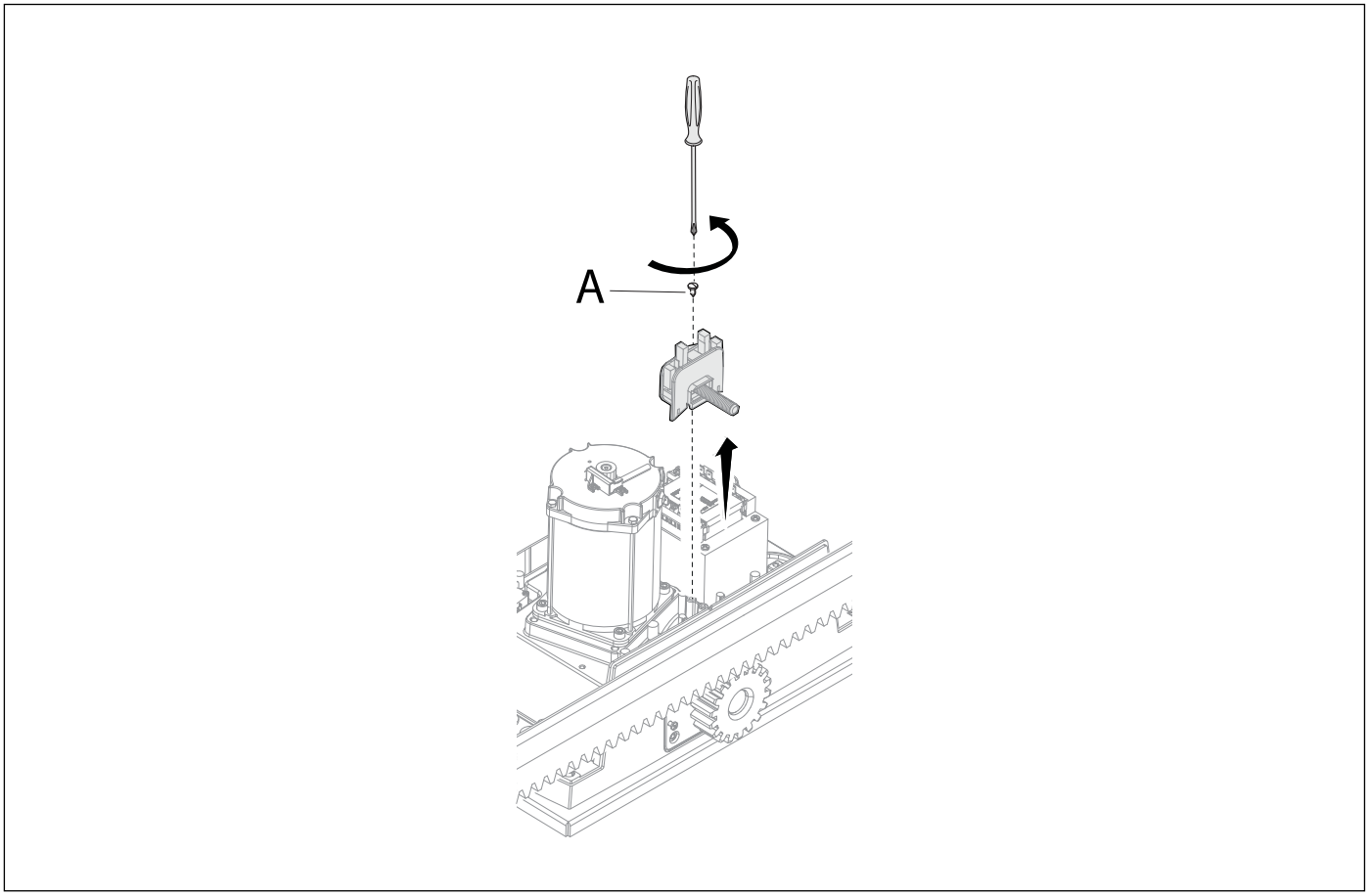
Remove the operator cover, unscrewing the screws as shown.



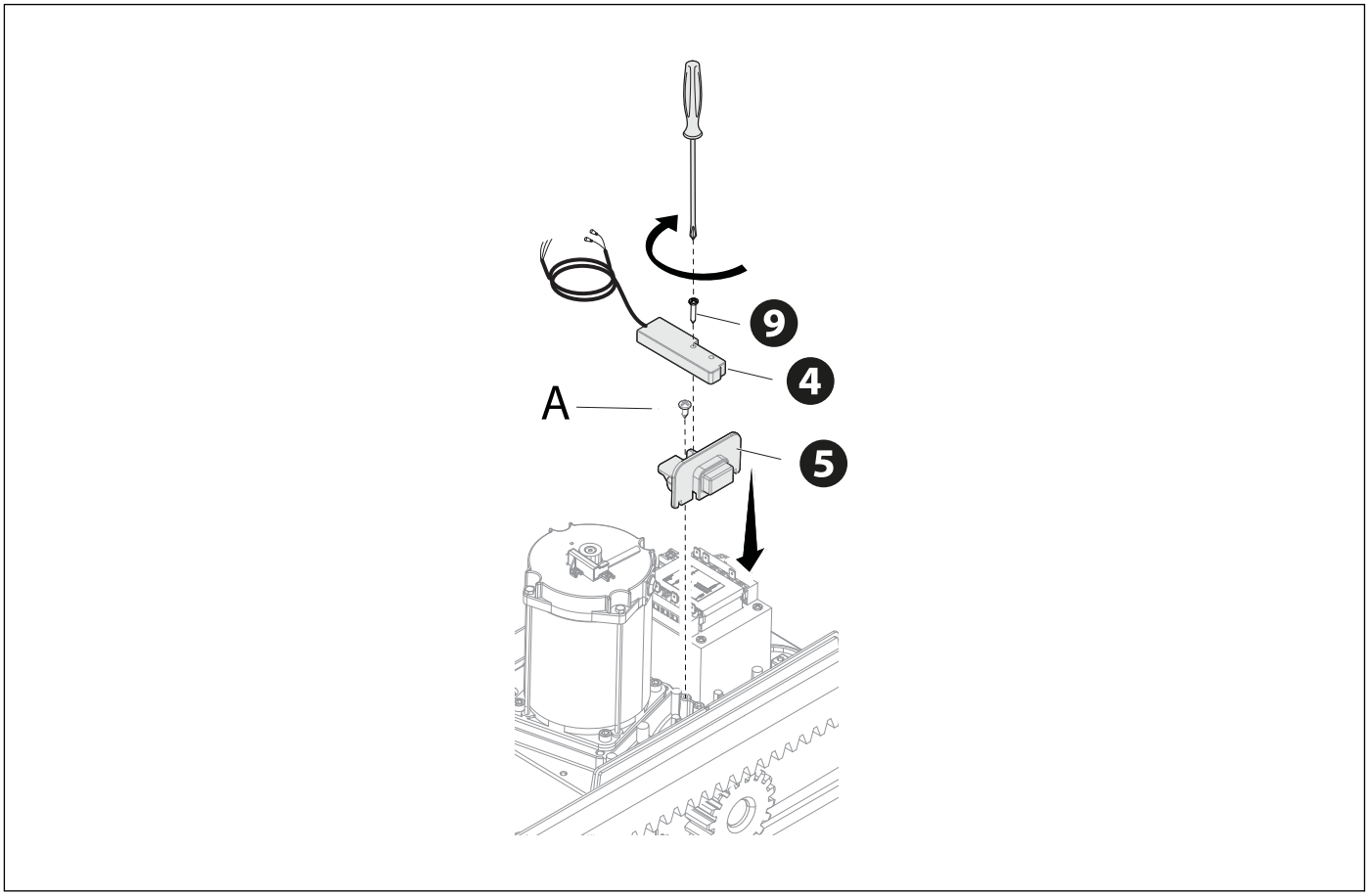
Disconnect the microswitch on the spring-loaded mechanical limit switch from the electronic board, then remove the accessory support by unscrewing the four fastening screws.



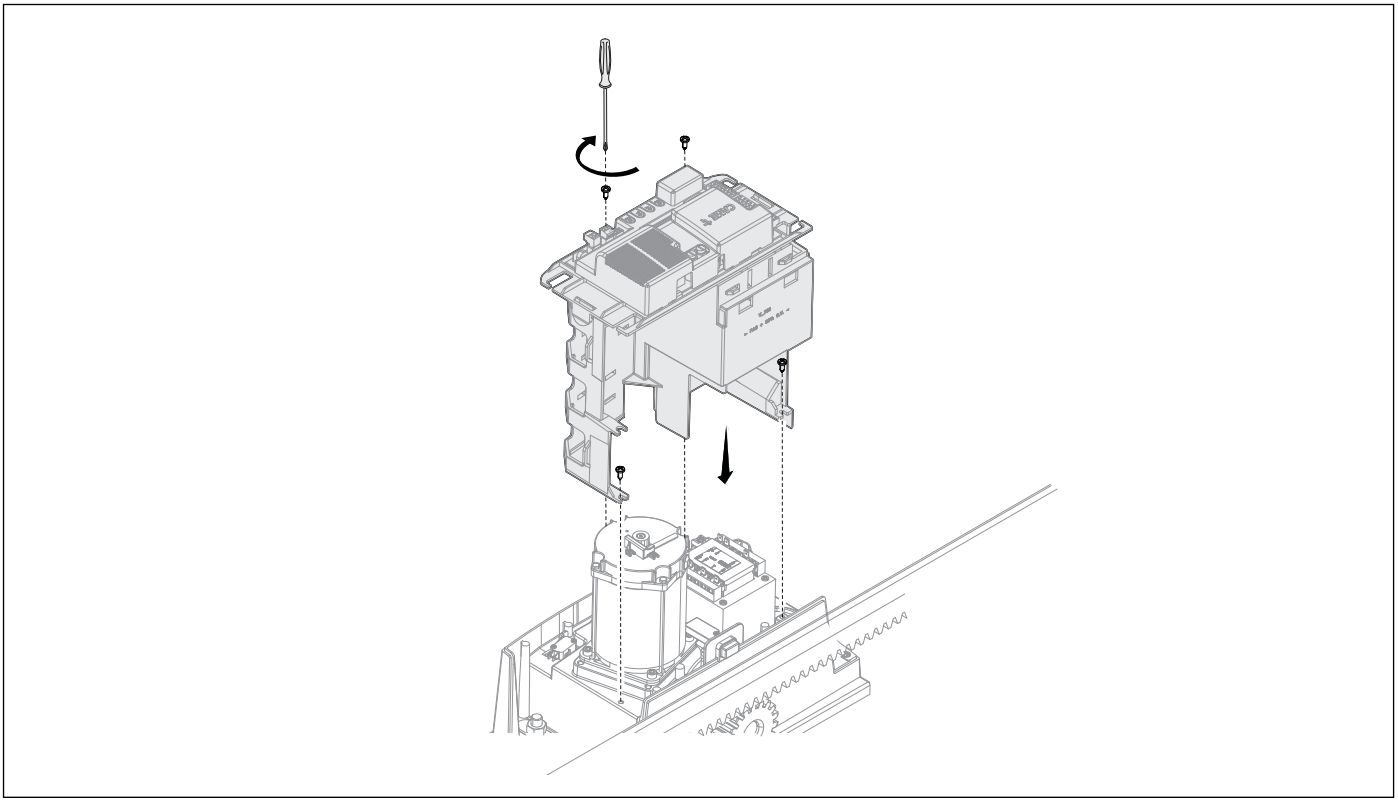
Remove the mechanical limit switch from the casing by unscrewing the fastening screw marked (A).



Install the magnetic-sensor support using the screw marked (A), which previously fastened the mechanical limit switch in place.
Fasten the magnetic sensor in place using the self-tapping screw 2.9 × 16.

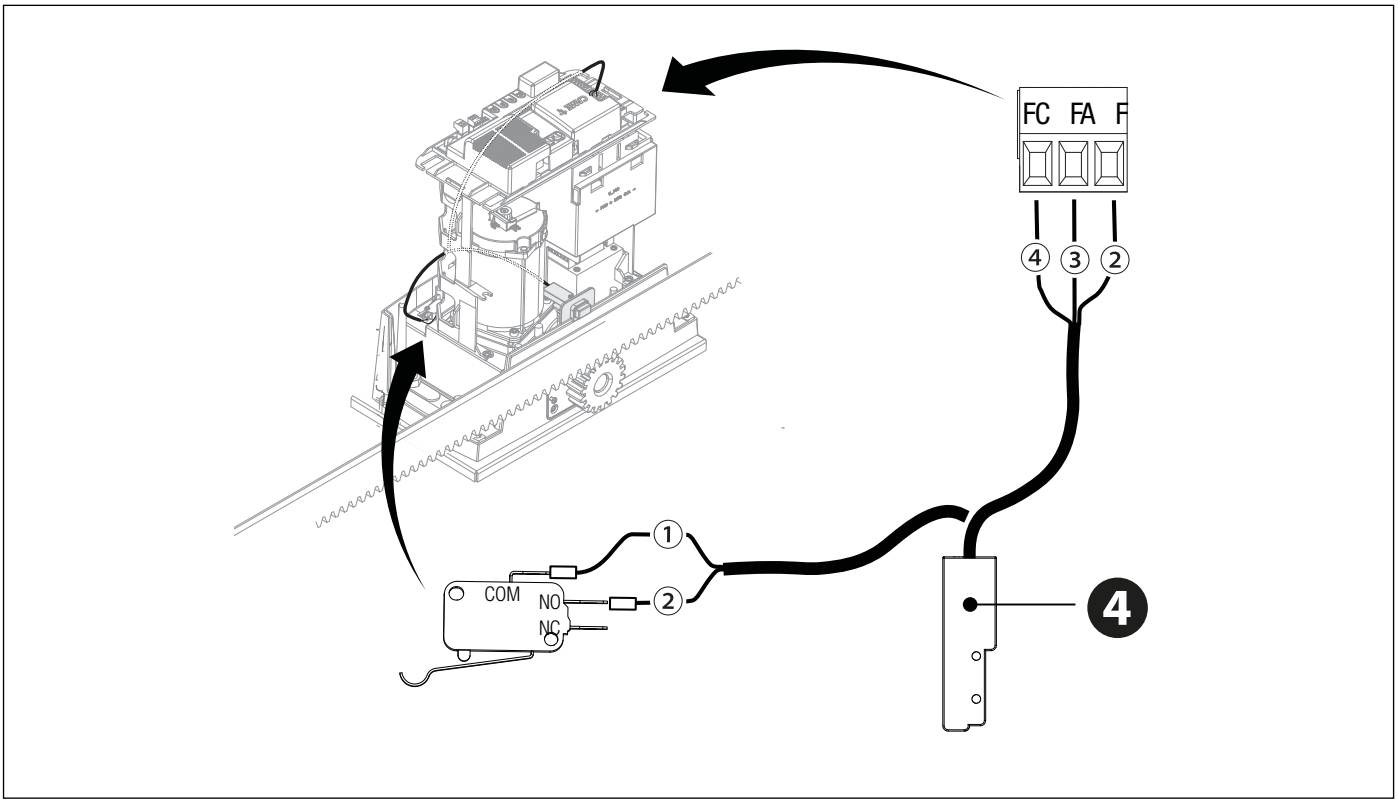


Fasten the accessory support.



Make the electrical connections between the magnetic sensor and the electronic board as follows:
- red wire > F terminal;
- brown wire > FA terminal;
- black wire > FC terminal.

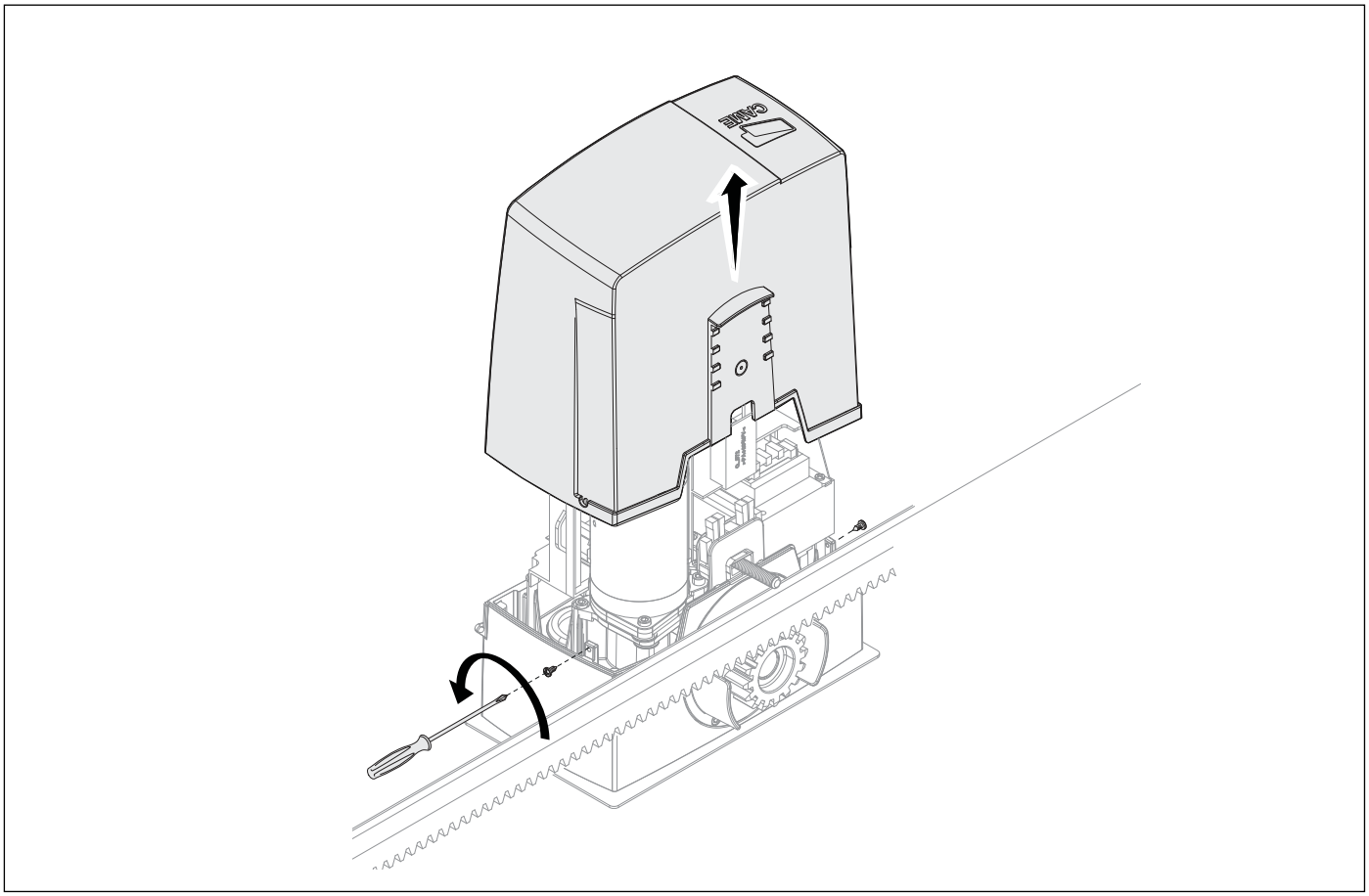
Connect the two wires fitted with connectors to the microswitch on the hatch, according to the configuration below:
- blue wire > COM connector;
- red wire > NO connector.



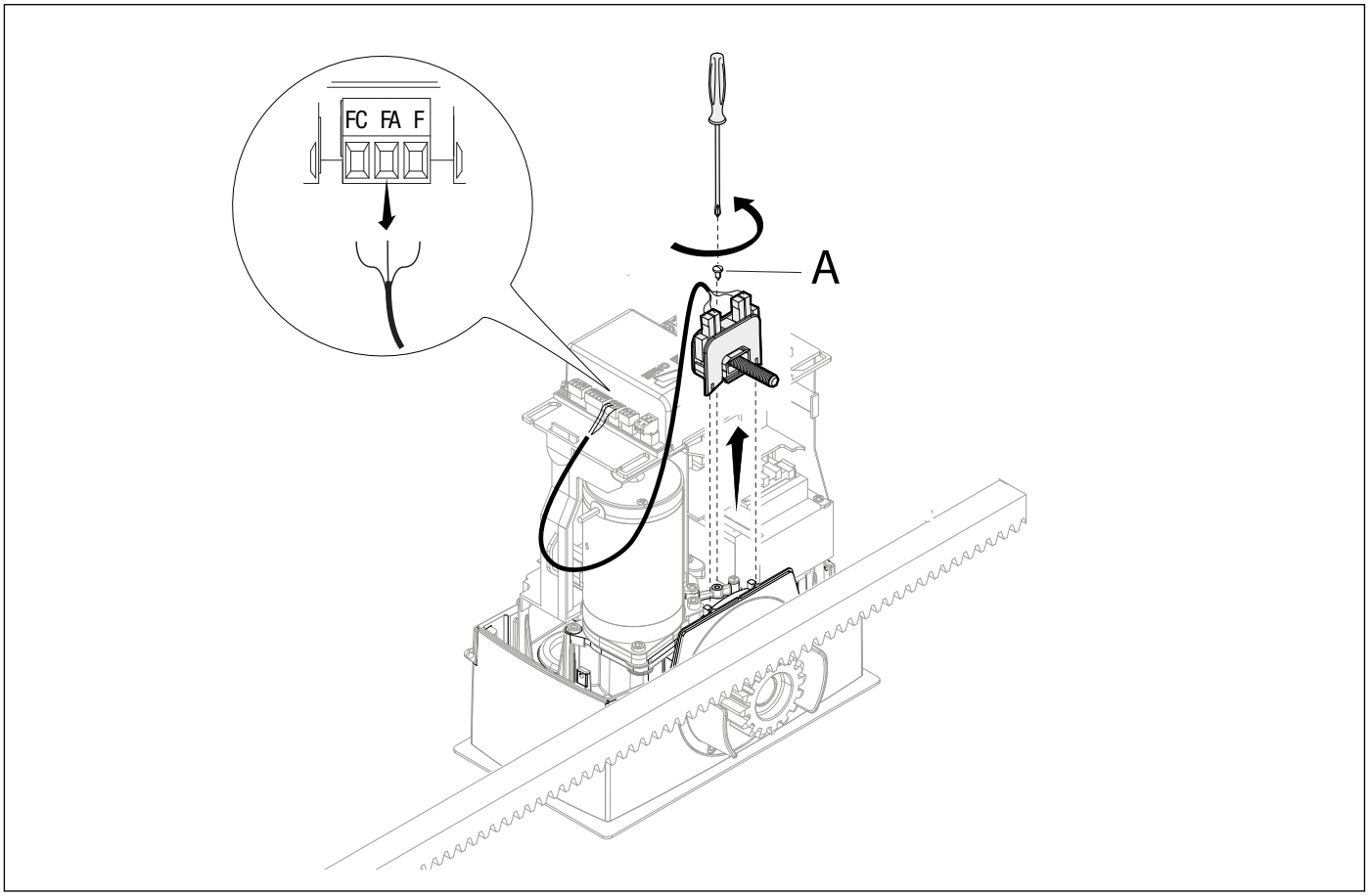
📖 Once installation is complete and the magnetic sensor connected, install the tabs. See the section SETTING THE TRAVEL END POINTS.

Installation

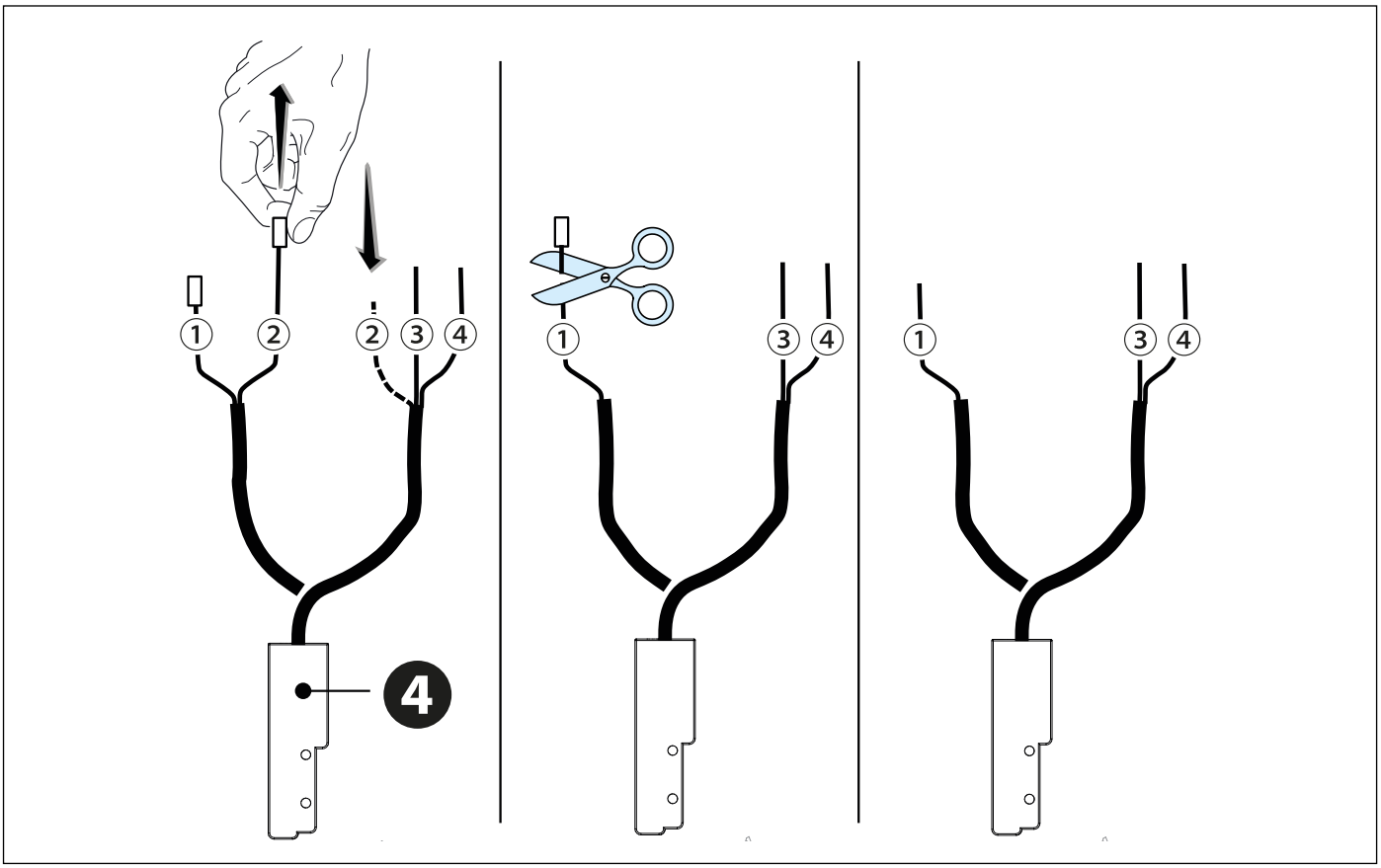
Remove the operator cover, unscrewing the fastening screws as shown in the figure.



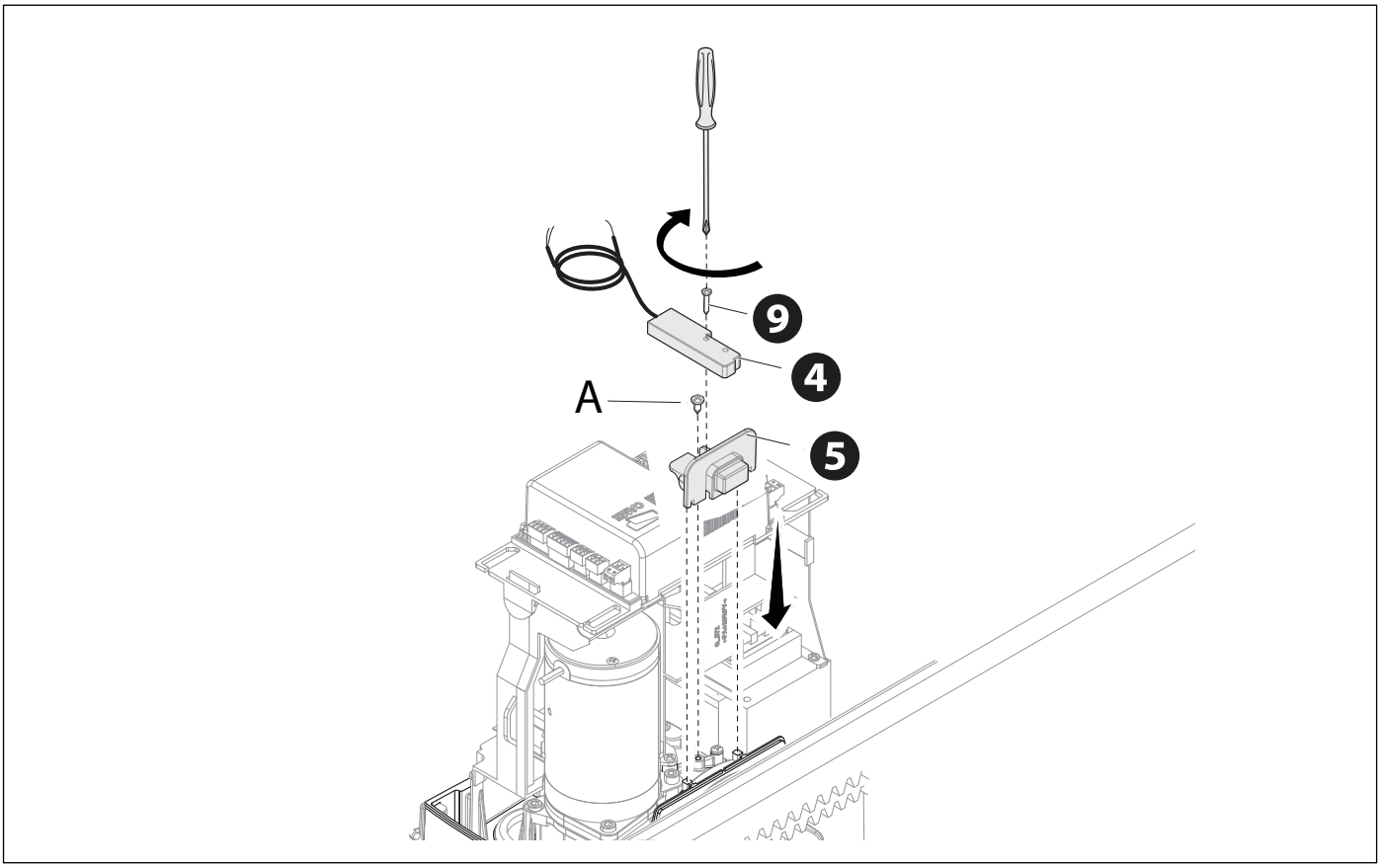
Disconnect the microswitch on the spring-loaded mechanical limit switch from the electronic board and remove it from the casing by unscrewing the screw marked (A).



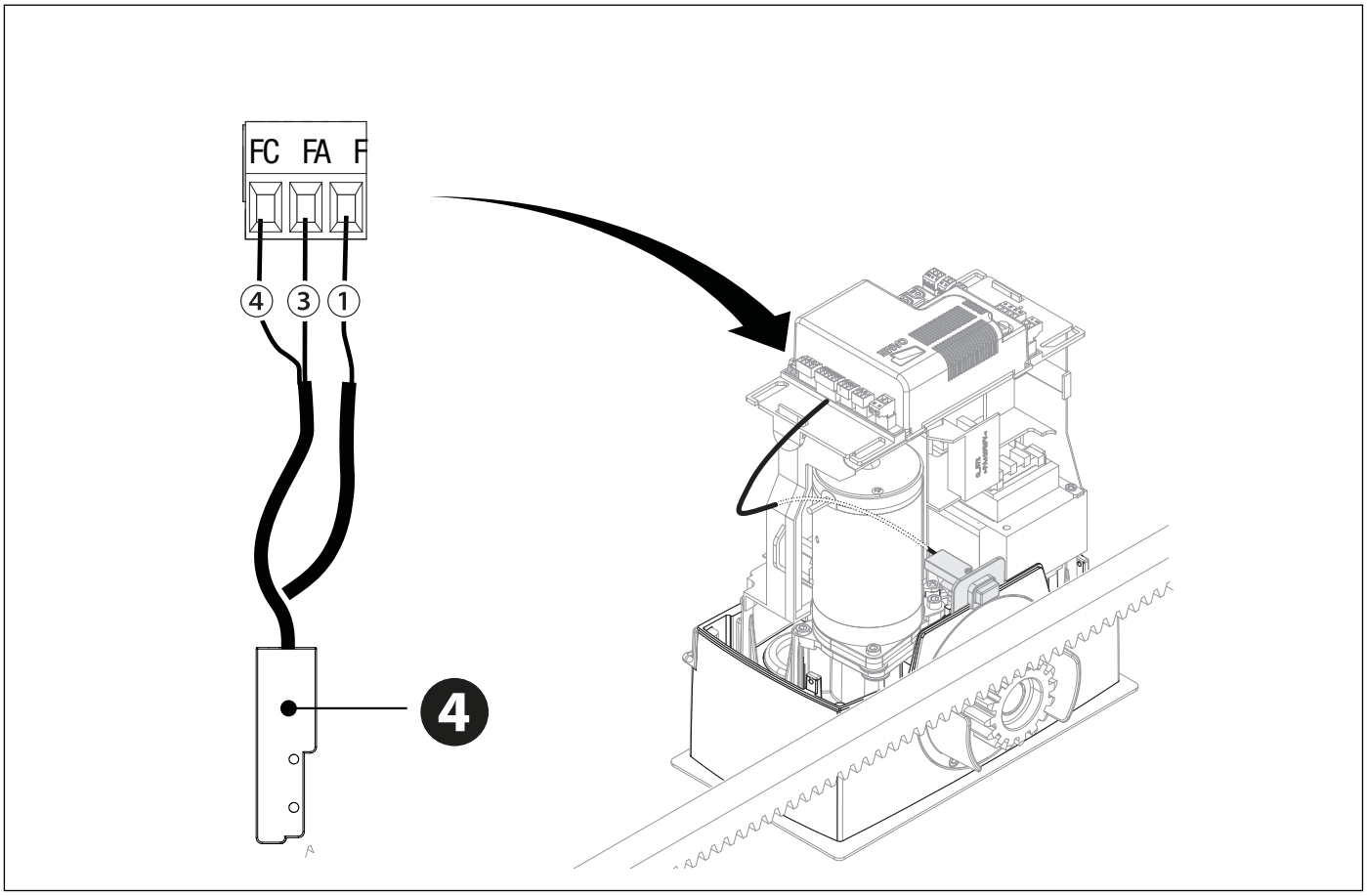
Prepare the magnetic limit switch as follows:
- remove the red cable;
- cut the connector on the blue cable.



Install the magnetic-sensor support using the screw marked (A), which previously fastened the mechanical limit switch in place.
Fasten the magnetic sensor in place using the self-tapping screw 2.9 × 16.



Make the electrical connections between the magnetic sensor and the electronic board as follows:
- blue wire > F terminal;
- brown wire > FA terminal;
- black wire > FC terminal.



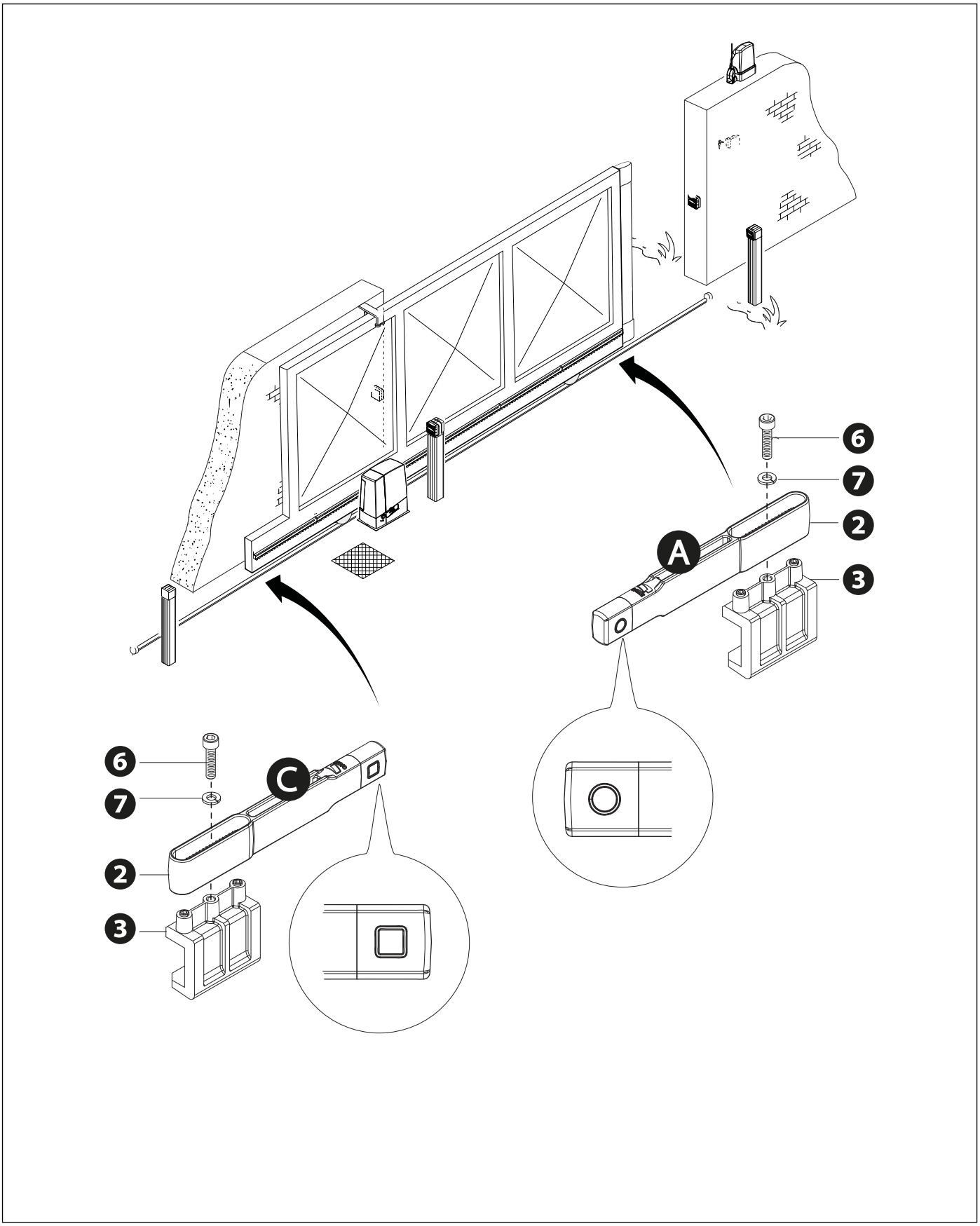
📖 Once installation is complete and the magnetic sensor connected, install the tabs. See the section SETTING THE TRAVEL END POINTS.

ESTABLISHING THE LIMIT-SWITCH POINTS

Assemble the limit-switch tabs as shown in the figure.

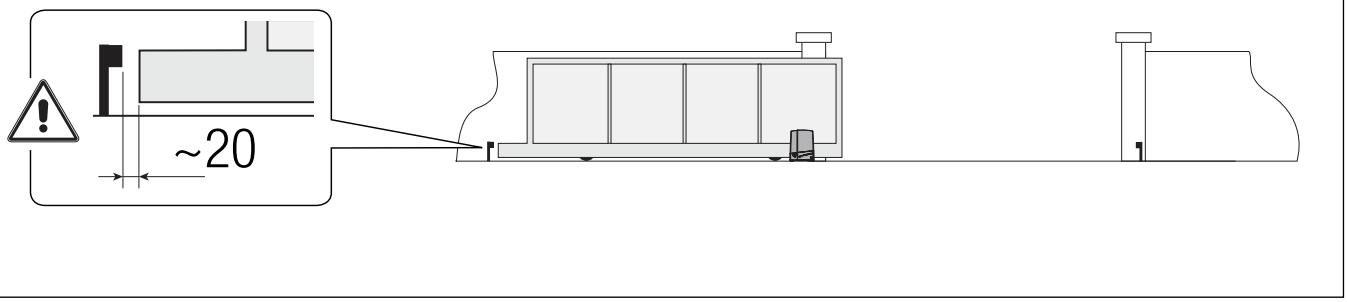
A Opening limit switch

C Closing limit switch

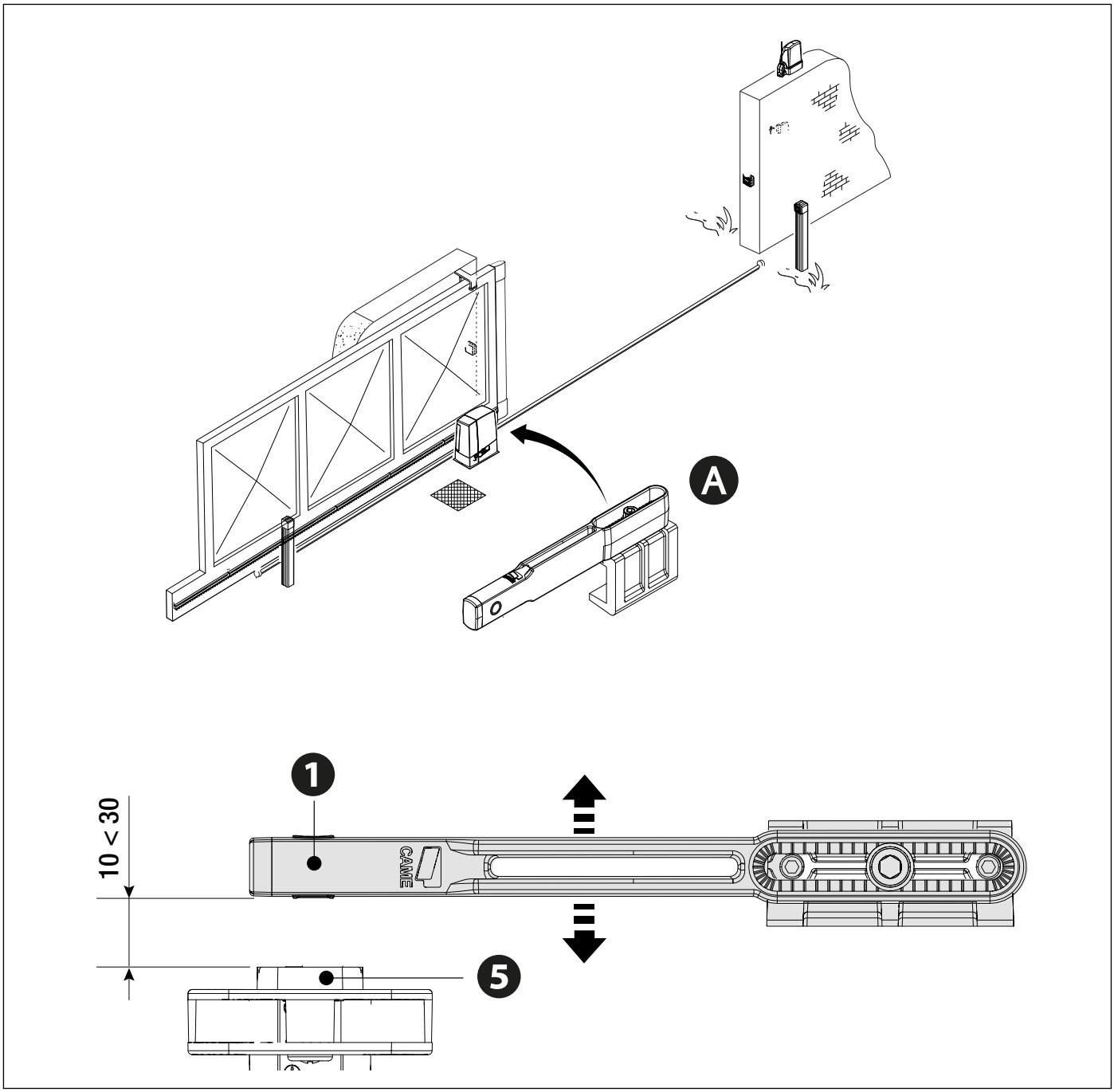


Setting the opening travel end point

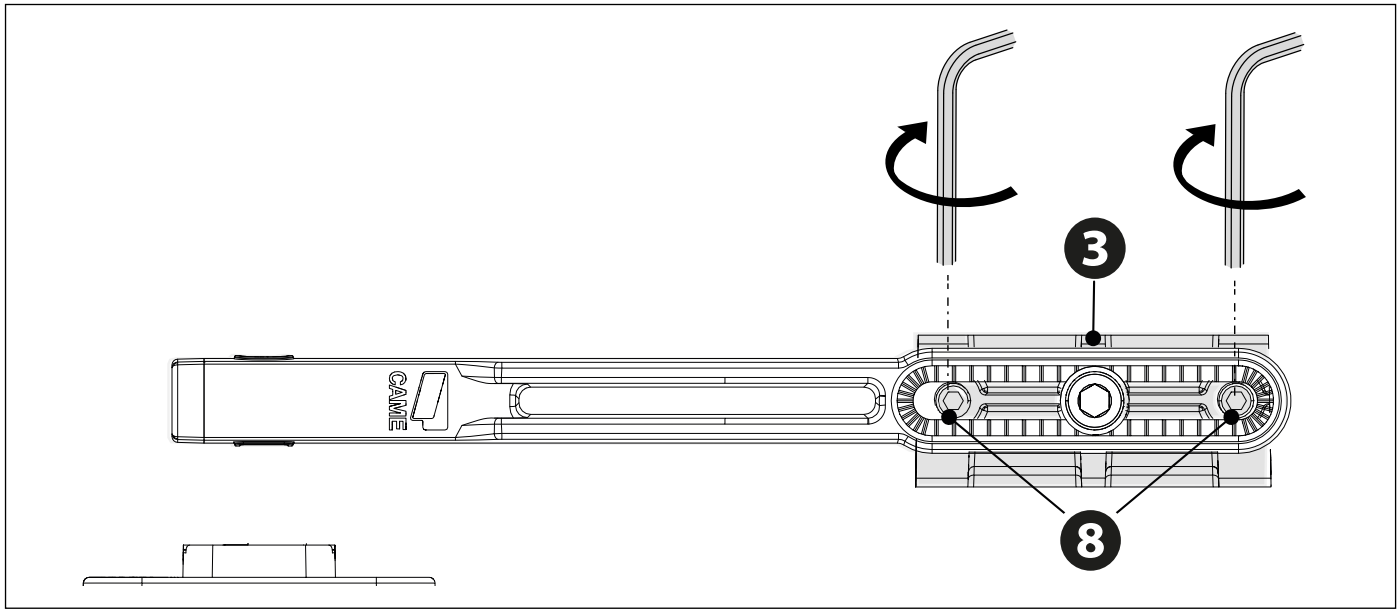
With the gearmotor released, move the gate manually to the fully open position, keeping a distance of approximately 20 mm from the mechanical stop position.



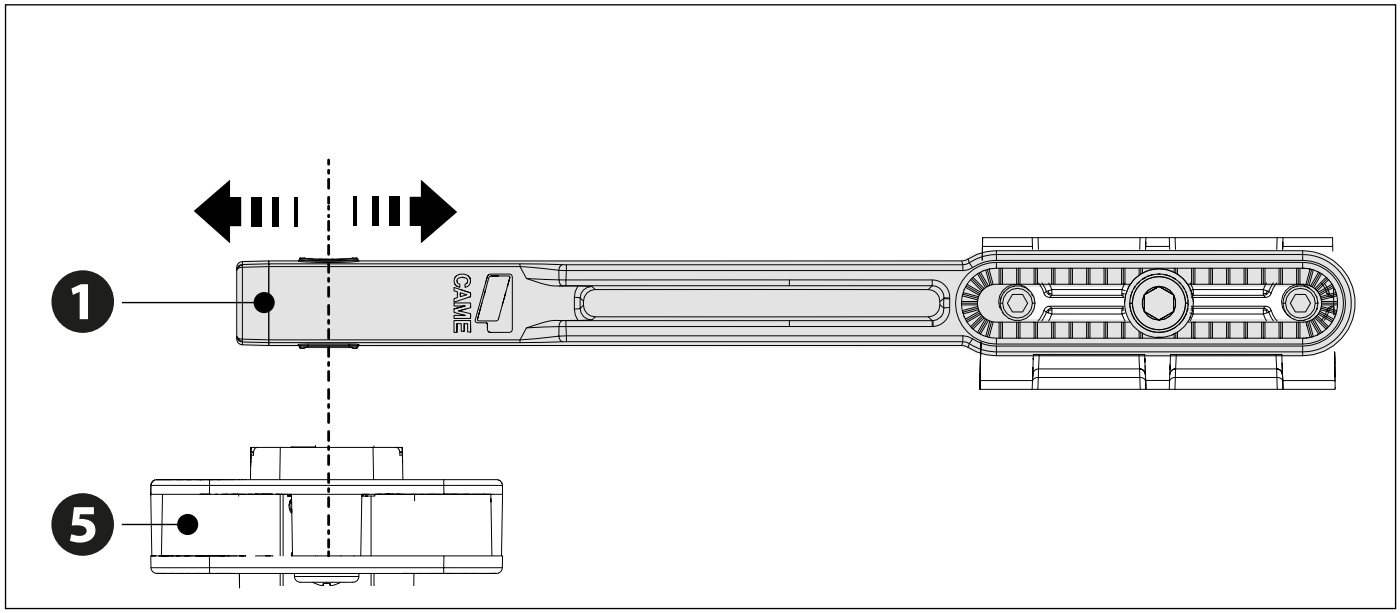
Position the opening limit-switch magnetic tab on the rack, making sure the magnet is between 10 and 30 mm away from the magnetic sensor.



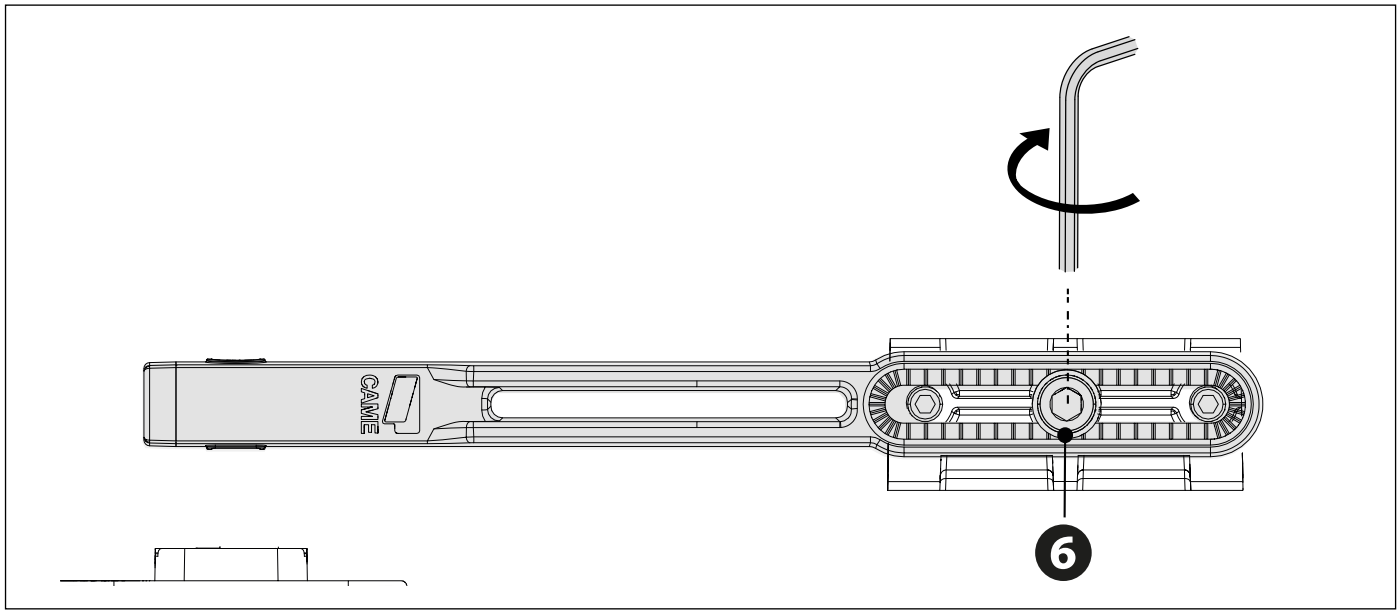
Fasten the tab support to the rack using the grub screws M6x25.



Align the magnet with the magnetic sensor on the same axis.

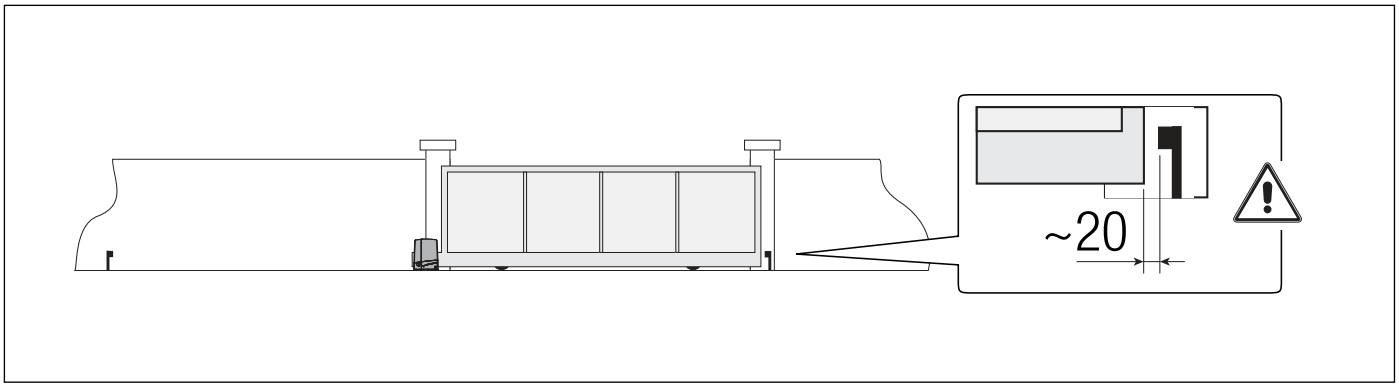


Fasten the tab using the screw M6X20.

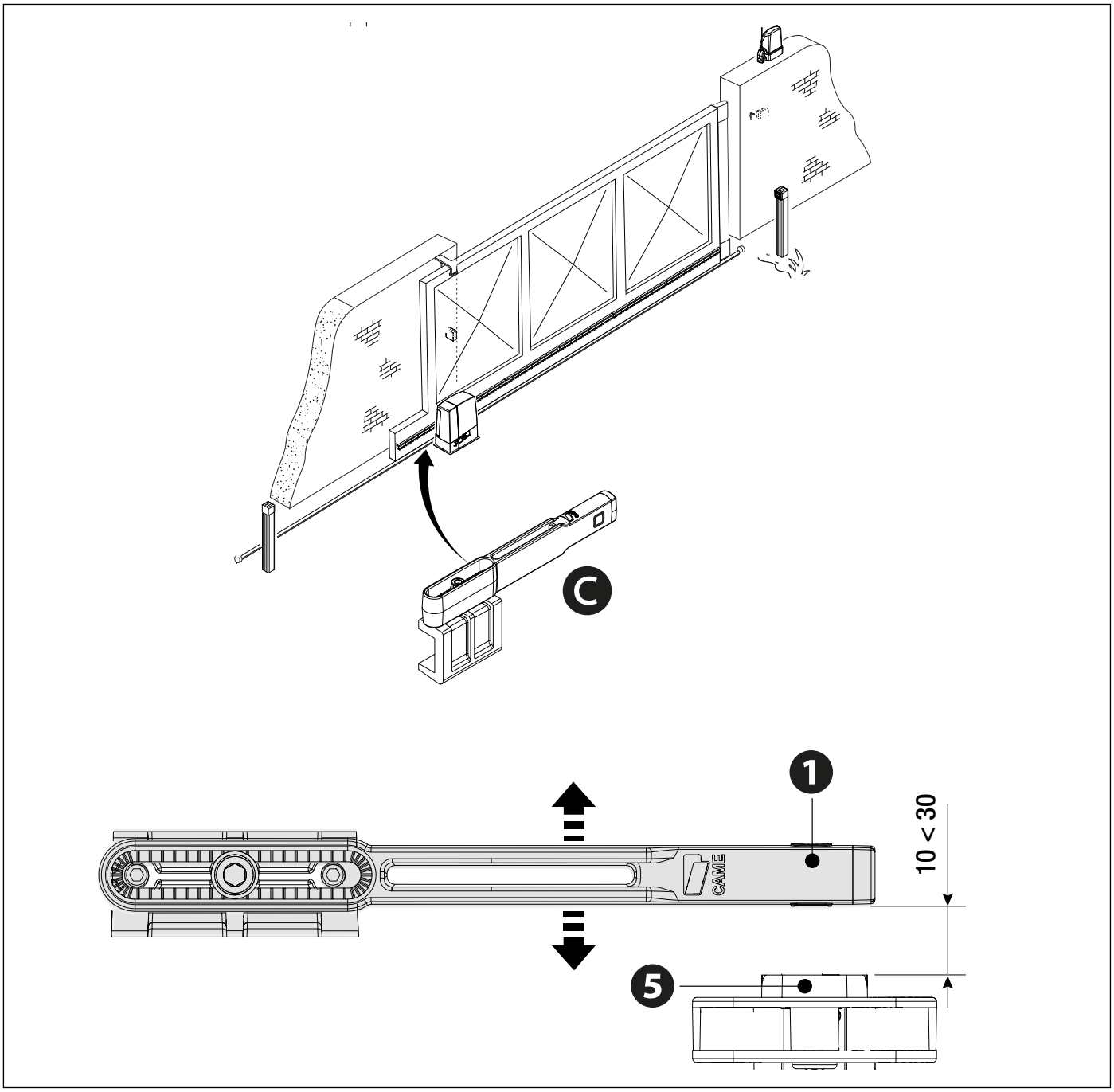


Setting the closing travel end point

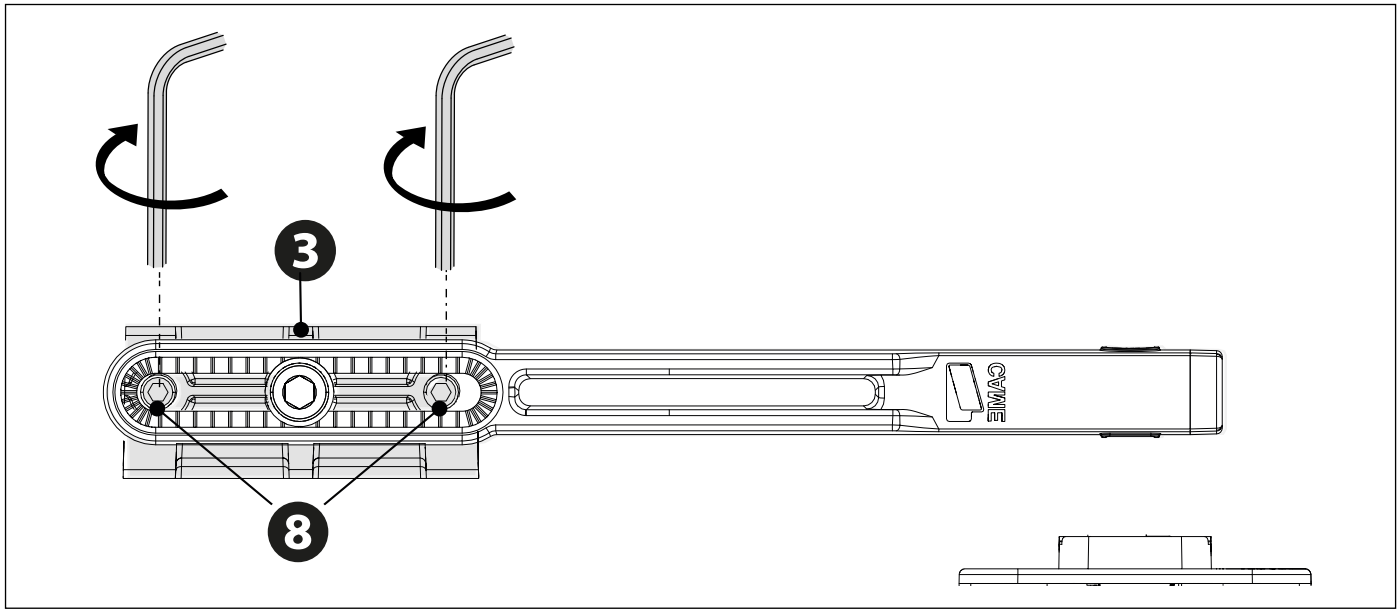
With the gearmotor released, move the gate manually to the fully closed position, keeping a distance of approximately 20 mm from the mechanical stop position.



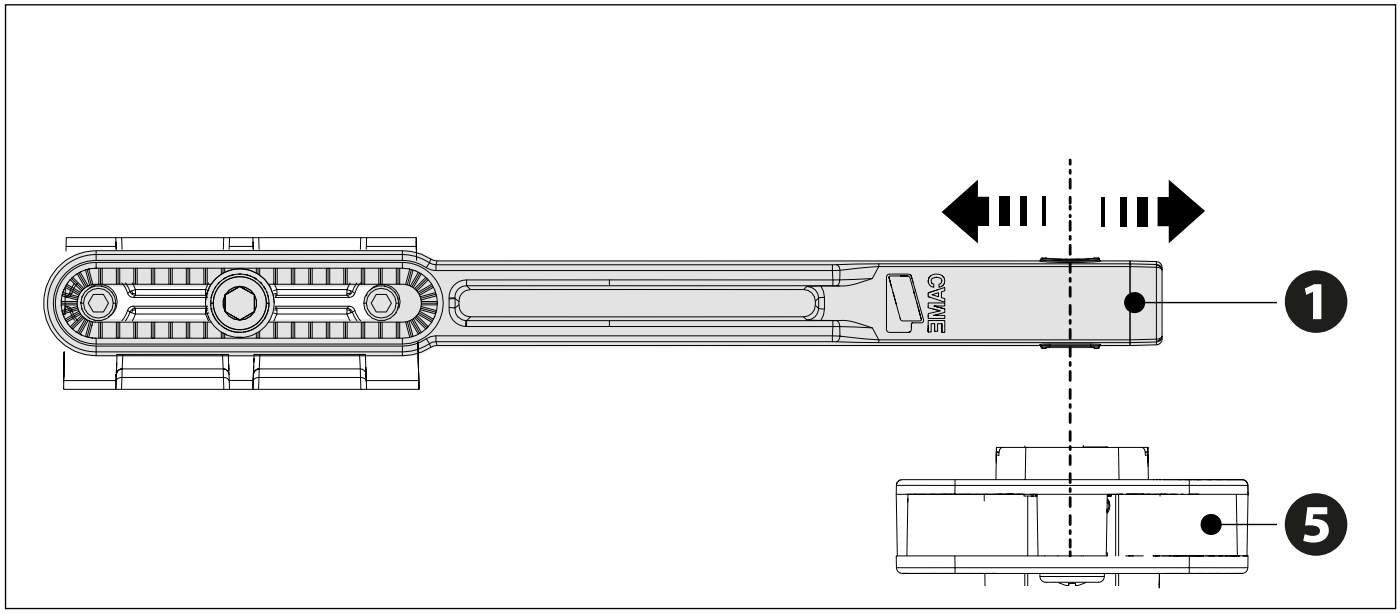
Position the closing limit-switch magnetic tab on the rack, making sure the magnet is between 10 and 30 mm away from the magnetic sensor.



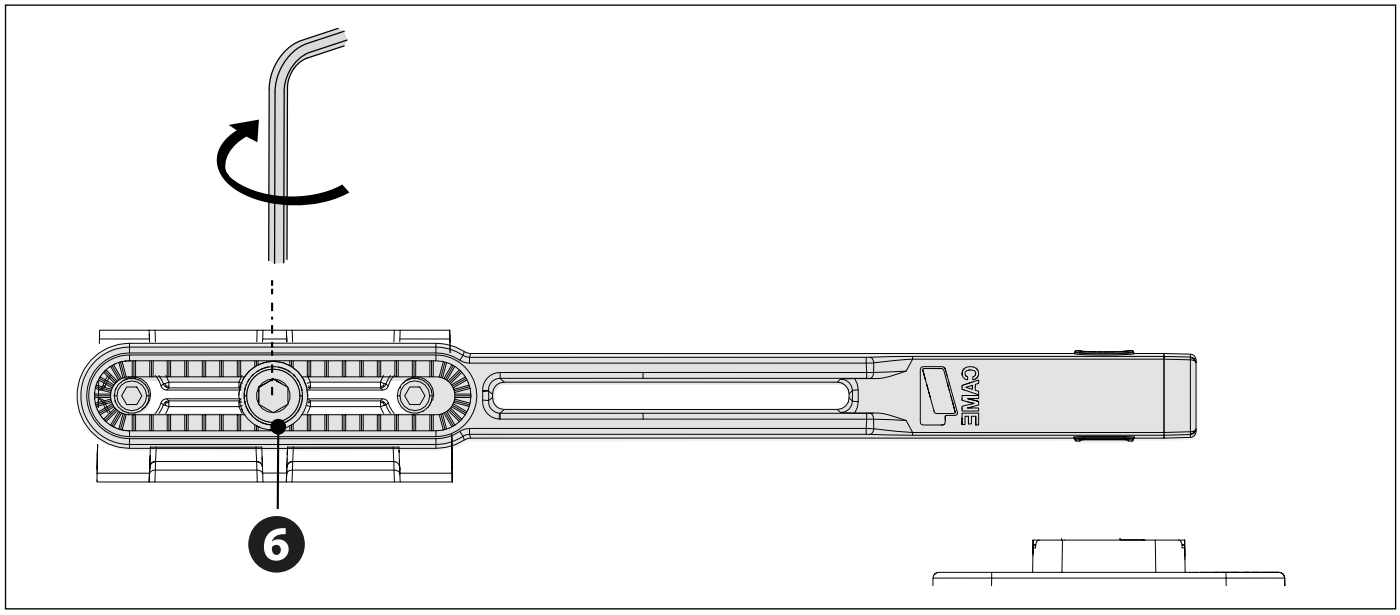
Fasten the tab support to the rack using the grub screws M6x25.



Align the magnet with the magnetic sensor on the same axis.



Fasten the tab using the screw M6X20.



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