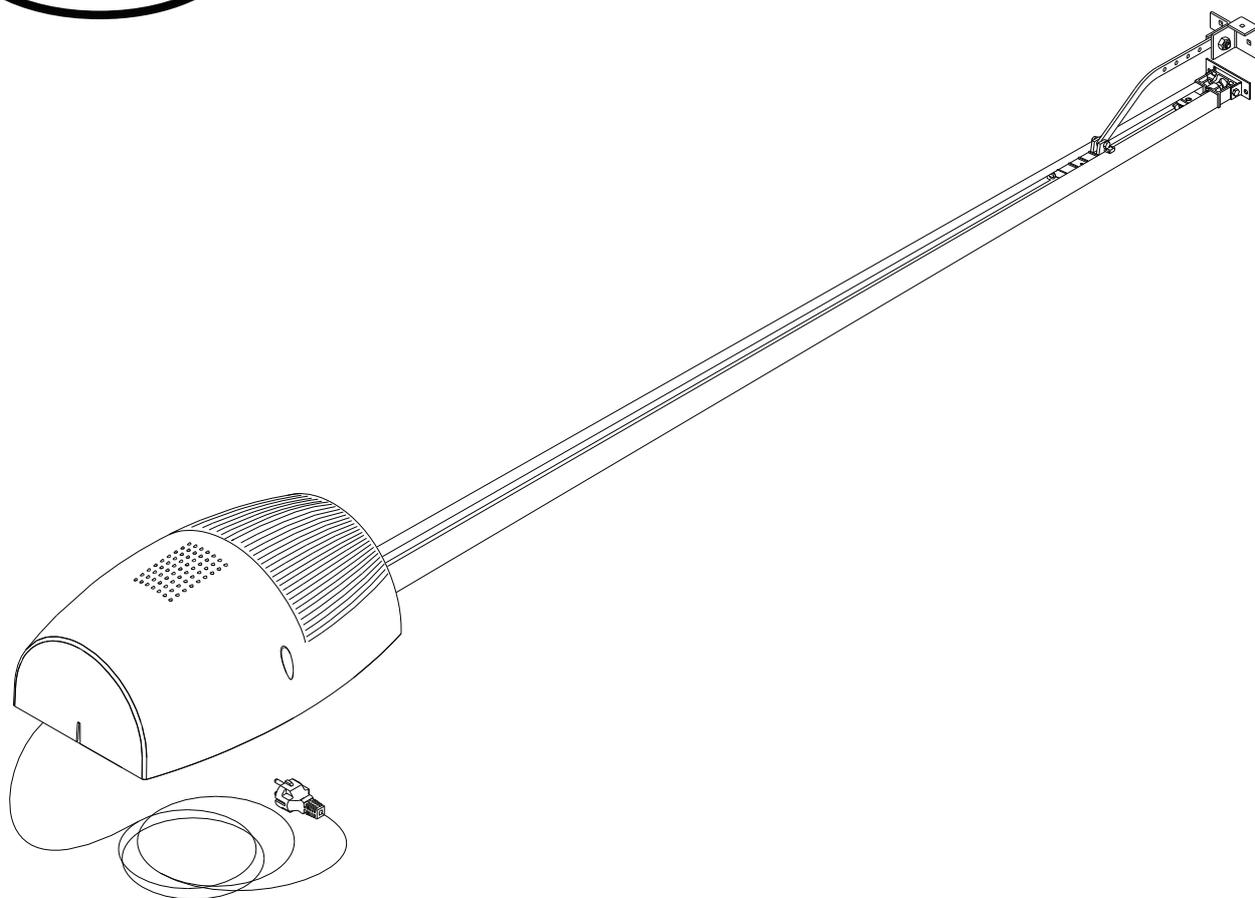




- I** AUTOMAZIONI PER PORTE BASCULANTI E SEZIONALI
- GB** AUTOMATION FOR OVERHEAD AND SECTIONAL GARAGE DOORS
- F** AUTOMATION POUR PORTES BASCULANTES ET SECTIONALES
- D** GARAGENTORANTRIEB FÜR SCHWING UND SEKTIONALTORE
- E** AUTOMATIZACIONES PARA PUERTAS BASCULANTE Y SECCIONALES
- P** AUTOMATIZAÇÕES PARA PORTAS BASCULANTES DE MOLAS E SECCIONAIS



BOTTICELLI VENERE

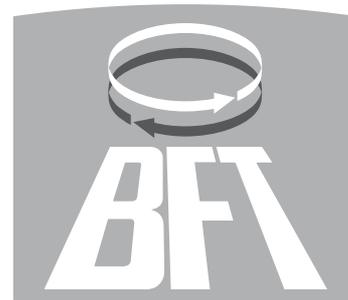


ISTRUZIONI D'USO E DI INSTALLAZIONE
INSTALLATION AND USER'S MANUAL
INSTRUCTIONS D'UTILISATION ET D'INSTALLATION
MONTAGE- und BEDIENUNGSANLEITUNG
INSTRUCCIONES DE USO Y DE INSTALACION
INSTRUÇÕES DE USO E DE INSTALAÇÃO



**AZIENDA CON SISTEMA
 DI GESTIONE INTEGRATO
 CERTIFICATO DA DNV
 = UNI EN ISO 9001:2000 =
 UNI EN ISO 14001:1996**

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Thank you for buying this product, our company is sure that you will be more than satisfied with the product's performance. The product is supplied with a "Warnings" leaflet and an "Instruction booklet". These should both be read carefully as they provide important information about safety, installation, operation and maintenance. This product complies with the recognised technical standards and safety regulations. We declare that this product is in conformity with the following European Directives: 89/336/EEC, 73/23/EEC, 98/37/EEC, 99/05/EEC (and subsequent amendments).

1) GENERAL SAFETY

WARNING! An incorrect installation or improper use of the product can cause damage to persons, animals or things.

- The "Warnings" leaflet and "Instruction booklet" supplied with this product should be read carefully as they provide important information about safety, installation, use and maintenance.
- Scrap packing materials (plastic, cardboard, polystyrene etc) according to the provisions set out by current standards. Keep nylon or polystyrene bags out of children's reach.
- Keep the instructions together with the technical brochure for future reference.
- This product was exclusively designed and manufactured for the use specified in the present documentation. Any other use not specified in this documentation could damage the product and be dangerous.
- The Company declines all responsibility for any consequences resulting from improper use of the product, or use which is different from that expected and specified in the present documentation.
- Do not install the product in explosive atmosphere.
- The construction components of this product must comply with the following European Directives: 89/336/CEE, 73/23/EEC, 98/37/EEC and subsequent amendments. As for all non EEC countries, the abovementioned standards as well as the current national standards should be respected in order to achieve a good safety level.
- The Company declines all responsibility for any consequences resulting from failure to observe Good Technical Practice when constructing closing structures (door, gates etc.), as well as from any deformation which might occur during use.
- The installation must comply with the provisions set out by the following European Directives: 89/336/CEE, 73/23/EEC, 98/37/EEC and subsequent amendments.
- Disconnect the electrical power supply before carrying out any work on the installation. Also disconnect any buffer batteries, if fitted.
- Fit an omnipolar or magnetothermal switch on the mains power supply, having a contact opening distance equal to or greater than 3,5 mm.
- Check that a differential switch with a 0.03A threshold is fitted just before the power supply mains.
- Check that earthing is carried out correctly: connect all metal parts for closure (doors, gates etc.) and all system components provided with an earth terminal.
- Fit all the safety devices (photocells, electric edges etc.) which are needed to protect the area from any danger caused by squashing, conveying and shearing.
- Position at least one luminous signal indication device (blinker) where it can be easily seen, and fix a Warning sign to the structure.
- The Company declines all responsibility with respect to the automation safety and correct operation when other manufacturers' components are used.
- Only use original parts for any maintenance or repair operation.
- Do not modify the automation components, unless explicitly authorised by the company.
- Instruct the product user about the control systems provided and the manual opening operation in case of emergency.
- Do not allow persons or children to remain in the automation operation area.
- Keep radio control or other control devices out of children's reach, in order to avoid unintentional automation activation.
- The user must avoid any attempt to carry out work or repair on the automation system, and always request the assistance of qualified personnel.
- Anything which is not expressly provided for in the present instructions, is not allowed.
- Installation must be carried out using the safety devices and controls prescribed by the EN 12978 Standard.
- Fit any fixed control within sight of the door but away from moving parts, higher than 1.5 m.
- Add a label bearing the following notices:
"Keep children away from the moving door".
"WARNING: risk of squashing".
Regularly check that the door reverses its movement when colliding with an obstacle 50 mm away from the floor and, if necessary, set it correctly.

2) GENERAL OUTLINE

The BOTTICELLI system is suitable for motorising sectional doors (fig. 3), protruding fully retracting spring-operated overhead doors (fig. 2) and counterweight overhead doors provided with an appropriate towing arm (fig. 4). The overhead door must not be higher than 3 metres. Its easy installation allows fast fitting without needing the door to be modified. The irreversible gearmotor keeps the door locked in the closing position.

3) TECHNICAL SPECIFICATIONS

3.1) Actuator

Power supply:	.....230V~±10%, 50/60Hz single-phase (*)
Motor voltage:	.....24V
Max. power absorbed from mains:	.....236W
Lubrication:	.....permanent grease
Towing and pushing force:	.....600N
Working stroke:	.....TRACK L.=2900 working stroke=2400 mm(**) .....TRACK L.=3500 working stroke=3000 mm(***)
Average speed:	.....5 m/min
Impact reaction:	.....integrated torque limiter on control panel
Manoeuvres in 24 hours:	.....20
Limit switch:	.....Electronic with ENCODER
Courtesy light:	.....24V~ 25W max, E14 bulb
Working temperature:	.....-15°C / +60°C
Degree of protection:	.....IPX0
Motor head weight:	.....5kg
Noise level:	.....<70dB(A)
Dimensions:	.....see fig.1

(*) Available in all mains voltages.

(**) By turning the motor head by 90° (Fig.11) the useful stroke will be 2580 mm.

(***) By turning the motor head by 90° (Fig.11) the useful stroke will be 3180 mm.

4) ACTUATOR INSTALLATION

4.1) Preliminary checks

- Check that the door is balanced.
- Check that the door slides smoothly along its entire travel.
- If the door has not been newly installed, check the wear condition of all its components.
- Repair or replace faulty or worn parts.
- The automation reliability and safety are directly influenced by the state of the door structure.
- Before fitting the motor, remove any superfluous ropes or chains and disable any unnecessary appliances.

4.2) FITTING

After unpacking, dispose of the parts which make up the package properly, by separating the different type of materials (cardboard, polystyrene, PVC, etc.) according to the national rules in force.

- 1) Remove the existing locking bolt from the cremone bolt of the door.
- 2) In order to fix the track correctly, mark the mid-point of the door, position the BIN on the ceiling and mark the holes (Fig. 6).
- 3) Drill the ceiling with a 10-dia. drill bit following the previously made marks, and insert the Fischer plugs.
- 4) Secure the track at the base, fig.7 (ref.1-2) and fig.8 (ref.3-4-5).
- 5) With the help of an adequate support, lift the entire motor, screw the screws onto the track-holding bracket without fixing them to the door frame (Fig.9A) or, if the height allows it, fit the bracket to the masonry lintel by means of plugs (Fig.9B).
- 6) Lift the motor-driven head until everything rests against the ceiling, and insert the fixing screws which lock the track (including the anchoring bracket screws).
- 7) If the motor head and the track are not fixed directly to the ceiling, see Fig.10 (always check that the track is level and perpendicular to the ceiling).
- 8) In the case where the track is turned by 90° with respect to the motor head, use the reference template in Fig. 11A to cut out the guard, keeping to the measurements indicated. For fixing the BIN to the ceiling, see Fig.6 and in case the track is not fixed directly to the ceiling, see Fig.12.
- 9) In the case where the track is made in two halves, see Fig.13; for the different types of fixing methods, see the previous figures.
- 10) Release the carriage and fix the anchoring brackets to the door panel (Fig.14). The distance allowed between track and sectional door is 108 to 166 mm. In case of greater distance, it is necessary to use the brackets and lower the motor; in case of shorter distance, it is necessary to shorten the towing plate.
- 11) Stick the adhesive labels supplied next to the dangerous points (Fig. 5).

5) CHAIN TIGHTENER ADJUSTMENT (BOTTICELLI)

The operator supplied is already calibrated and inspected. Should the chain tension need to be adjusted, proceed as shown in fig. 15.

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WARNING: the anti-tear rubber element must never be completely compressed. Scrupulously check that the rubber does not become totally compressed during operation.

6) ELECTRICAL INSTALLATION SET-UP (Fig.16)

- M) Actuator
- Ft) Transmitter photocell
- Fr) Receiver photocells
- T) 1-2-4 channel transmitter.

Arrange for the connections of accessories and safety and control devices to reach the motor unit, keeping the mains voltage connections clearly separate from the extra low safety voltage connections (24V) by means of the appropriate cable holder (fig. 8 ref. 5P1).

Proceed to connection following the indications given in the wiring diagram. The cables for connecting the accessories must be protected by a raceway (fig. 8 ref. 5C1).

7) VENERE Control panel (Fig.17)

- Supply to accessories:24V~ (180mA max)
-24V~ Vsafe VENERE (180mA max)
- Torque limiter setting:.....on closing and opening
- Automatic closing time:.....from 3 to 120s
- Blinker connection:.....24V~ max 25W
- Service light switching-on time:.....90s
- Incorporated rolling-code radio receiver:.....frequency 433.92 MHz
- Coding:.....rolling-code algorithm
- No. combinations:.....4 milliard
- Antenna impedance:.....50Ohm (RG58)
- Max no. radio controls to be memorised:.....10
- Slow-down distance:.....closing: ~24 cm opening: ~24 cm
- Fuses:.....see figure 17

7.1) Terminal board connections (Fig.17)

WARNINGS - For wiring and installation operations, refer to the current standards and good technical principles.

The wires supplied with extra low safety voltage (24V) must be kept physically separate from the low voltage wires, or else they must be provided with adequate additional insulation of at least 1mm.

The wires must be clamped by an extra fastener near the terminals, for example by bands.

TERMINAL	DESCRIPTION
JP6	transformer wiring
JP7	motor wiring
1-2	Antenna input for integrated radio-receiver board (1: BRAID, 2: SIGNAL)
3-4	START input (N.O.)
3-5	STOP input (N.C.) If not used, leave the jumper inserted.
3-6	PHOTOCELL input (N.C.) If not used, leave the jumper inserted.
3-7	FAULT input (N.O.) Input for photocells provided with checking N.O. contact
8-9	24 V~ output for blinking light (25 W max)
10-11	24V~ 180mA max output – power supply for photocells or other devices
12-13	24V~ Vsafe 180mA max output – power supply for checking photocell transmitters.

7.2) LED (Fig.17)

The led functions are as follows:

“RADIO”: Incorporated radio-receiver led.

“SET”: Limit device setting led - power ON.

7.3) DIP-SWITCH SELECTION (Fig.17)

DIP1) IBL – Locks impulses.

ON: During the opening phase, does not accept START commands.

OFF: During the opening phase, accepts START commands.

DIP2) TEST PHOT

ON: Enables photocell checking (5-connector photocells must be used - see Fig.17A-).

OFF: Disables photocell checking.

7.4) TRIMMER SETTING (Fig.17)

TCA

Sets the automatic closing time, after which the gate closes automatically (can be set from 3 to 120 sec). If the trimmer is turned all the way, the TCA is disabled.

OPENING TORQUE

Sets the ampere-stop sensitivity on opening.

CLOSING TORQUE

Sets the ampere-stop sensitivity on closing.

NOTE: In case of obstacle detection, the Ampere-stop function halts the leaf movement, reverses the motion for 1 sec. and stays in the STOP state.

⚠ WARNING: check that the impact force value measured at the points established by the EN 12445 standard is lower than that specified in the EN 12453 standard.

⚠ Incorrect sensitivity setting can cause injuries to persons or animals, or damage to things.

7.5) BUTTONS

“UP”: limit device setting and opening command. An autosest operation of the torque will be performed by keeping this button pressed for 5 seconds (Fig.19).

“DOWN”: limit device setting and closing command.

“OK”: radio programming.

8) LIMIT DEVICE SETTING (Fig.18)

- 1) Simultaneously press the “UP” and “DOWN” keys for 5 seconds. The “SET” led blinks to indicate that the limit device setting is activated.
- 2) Bring the leaf to the required closing position, using the “UP” and “DOWN” buttons on the control unit, and keeping in mind that the “DOWN” button closes the leaf, while the “UP” button opens the leaf.
- 3) As soon as the leaf reaches the required closing position, press the “OK” button in order to memorise the limit device closing position. The “SET” led confirms data storage by blinking for 1 second.
- 4) Bring the leaf to the required opening position, using the “UP” and “DOWN” buttons on the control unit, and keeping in mind that the “DOWN” button closes the leaf, while the “UP” button opens the leaf.
- 5) As soon as the leaf reaches the required opening position, press the “OK” button in order to memorise the limit device opening position. The “SET” led confirms data storage by blinking for 1 second and then lites up again.
- 6) Correctly position the “carriage lock” against the carriage (fig.18 ref.6 A-B).

NOTE 1: These manoeuvres are carried out in “hold-to-run” mode at reduced speed and with no safety devices activated.

NOTE 2: In case of errors, the “SET” led remains off on for 5 seconds.

9) OPENING / CLOSING TORQUE AUTOSETTING (Fig.19)

- 1) After reaching the closing end-of-stroke position, press the “UP” button for 5 seconds.
- 2) The “SET” led blinks rapidly and the leaf starts to open until it reaches the opening end-of-stroke.
- 3) 3 second down time.
- 4) The “SET” led blinks rapidly and the leaf starts to close until it reaches the closing end-of-stroke
- 5) After completing the autosest adjust the opening/closing torque trimmers so as to obtain the desired sensitivity to the obstacle.

Any input activation (START, RADIOTRANSMITTER, STOP, PHOTOCELL) during autosesting will annul the autosest in progress.

10) INTEGRATED RECEIVER

Transmitter versions which can be used:



all Rolling Code transmitters compatible with

10.1) ANTENNA INSTALLATION

Use an antenna tuned to 433MHz.

For Antenna-Receiver connection, use RG8 coaxial cable.

The presence of metallic masses next to the antenna can interfere with radio reception. In case of insufficient transmitter range, move the antenna to a more suitable position.

10.2) MANUAL TRANSMITTER PROGRAMMING (Fig.20)

- 1) Press the “OK” button on the control unit.
- 2) When the “RADIO” LED blinks, press the transmitter P1 hidden key, and the “RADIO” LED will stay on permanently.
- 3) Press the key to be memorised on the transmitter, LED “RADIO” will start blinking again.
- 4) To memorise another transmitter, repeat steps 2) and 3).
- 5) To exit the storage mode, wait until the LED is switched off completely.

Fig. 1

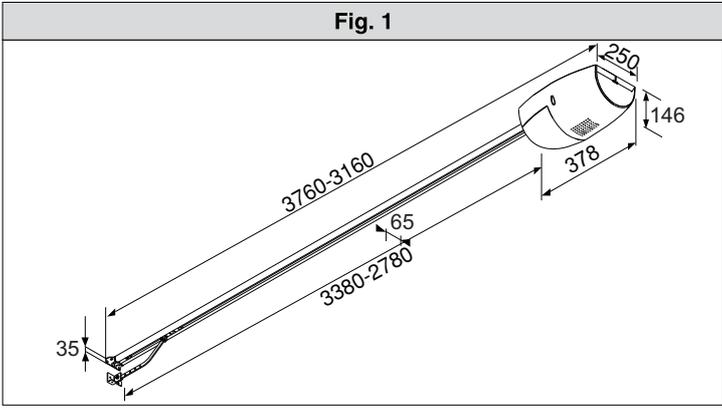


Fig. 2

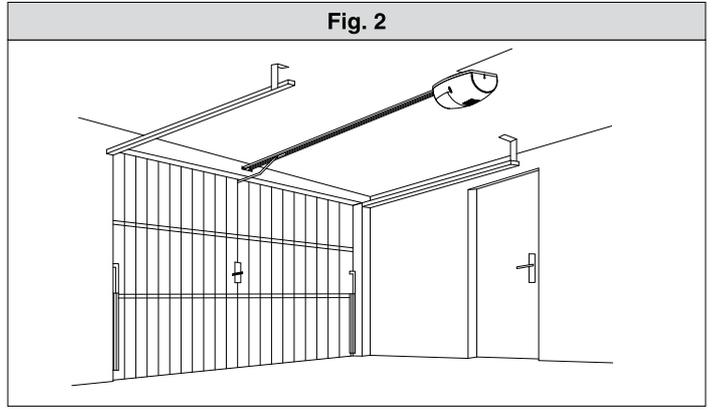


Fig. 3

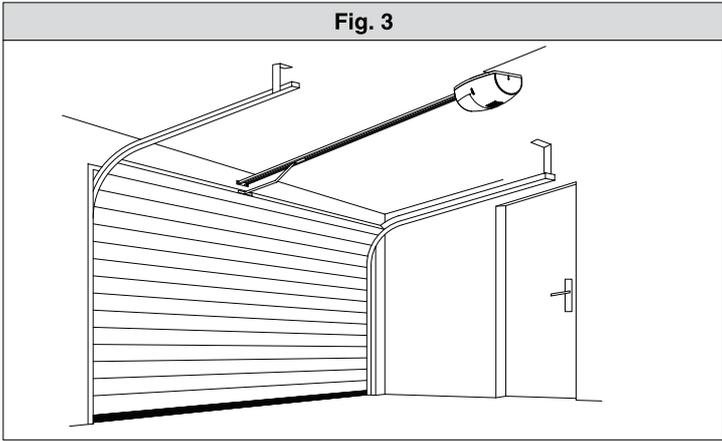


Fig. 4

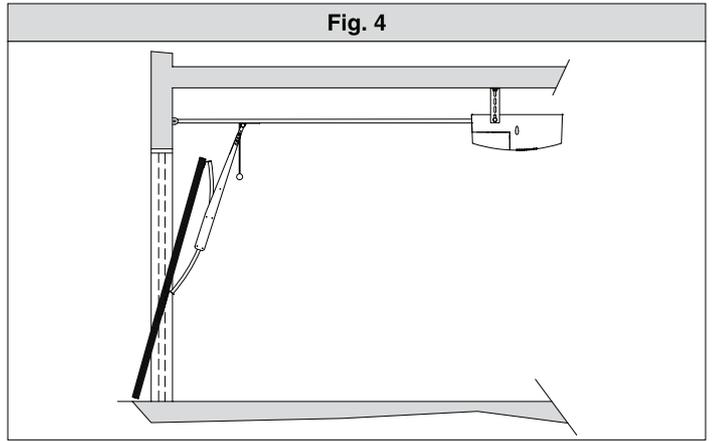


Fig. 5

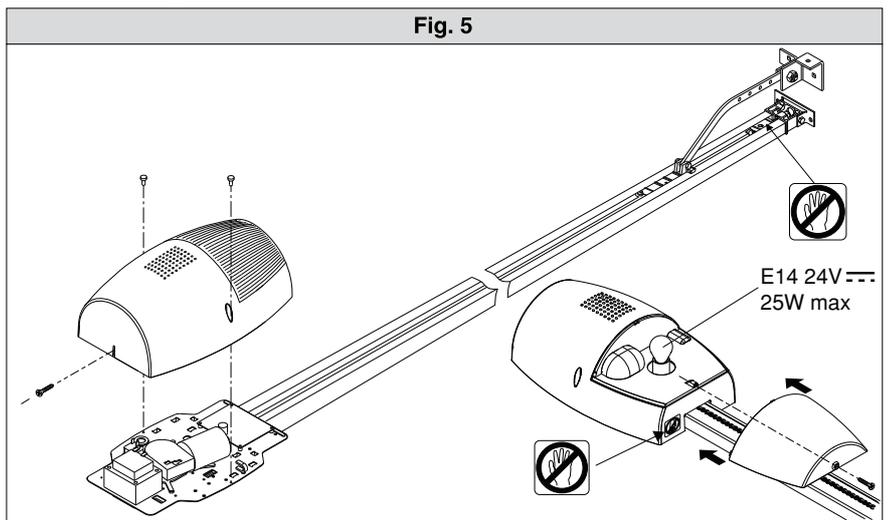


Fig. 7

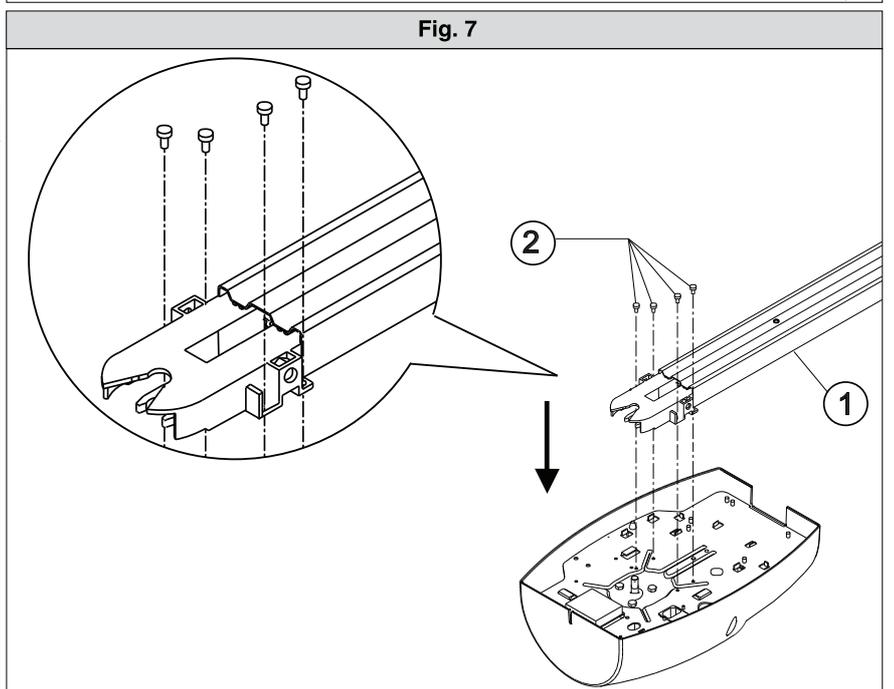


Fig. 6

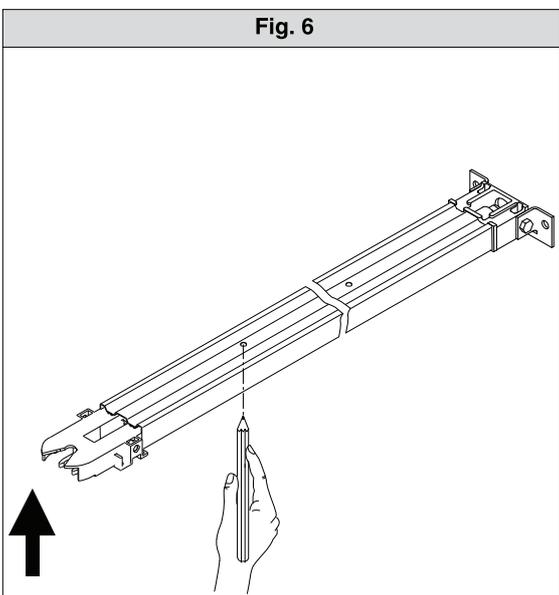


Fig. 8

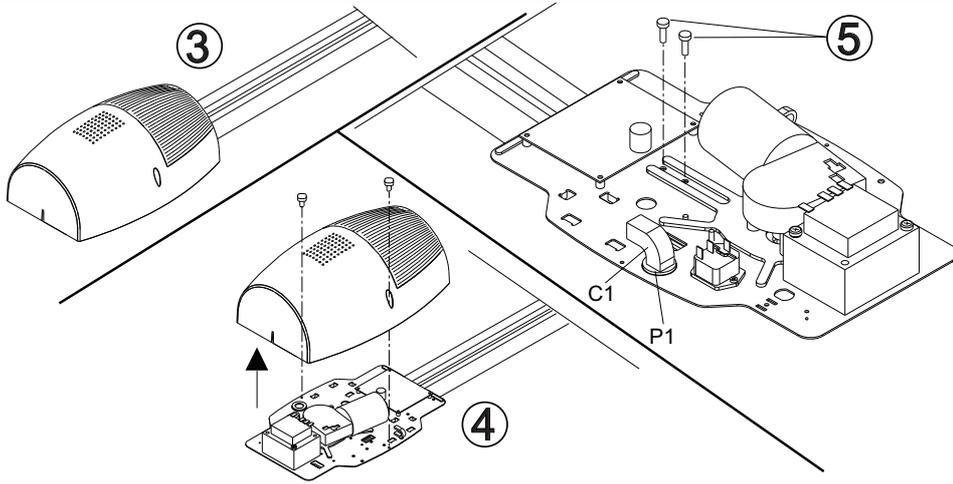


Fig.9A

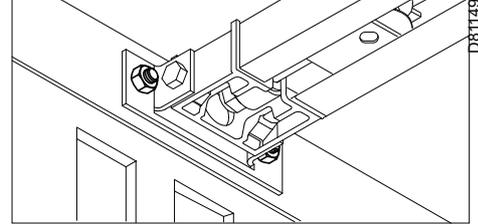


Fig.9B

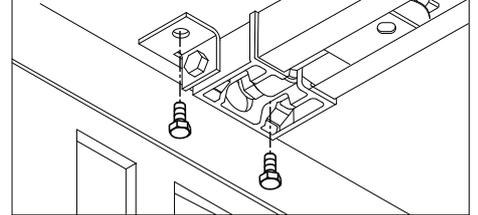


Fig. 10

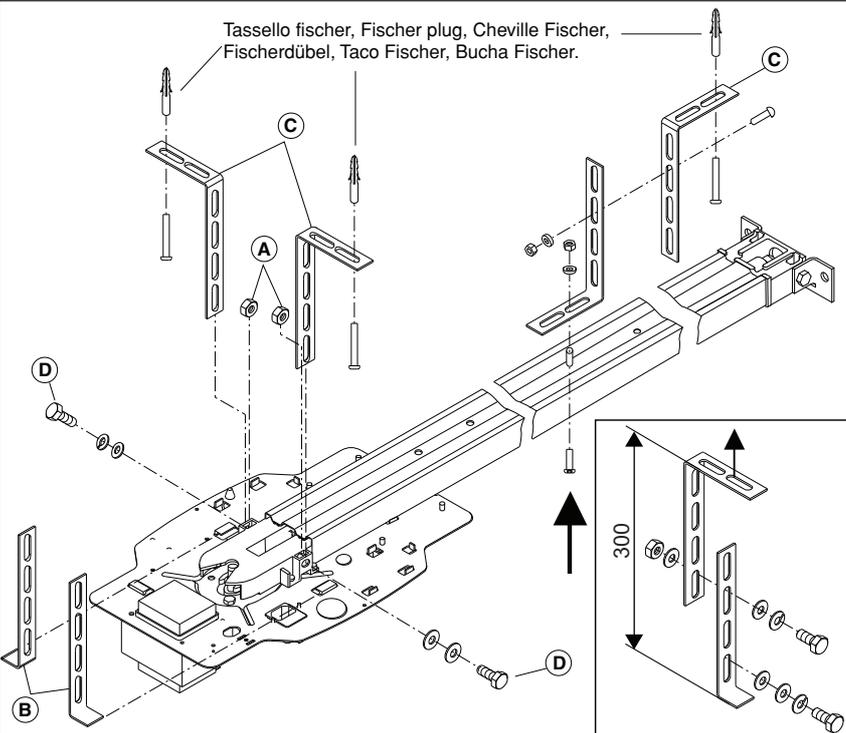


Fig. 11

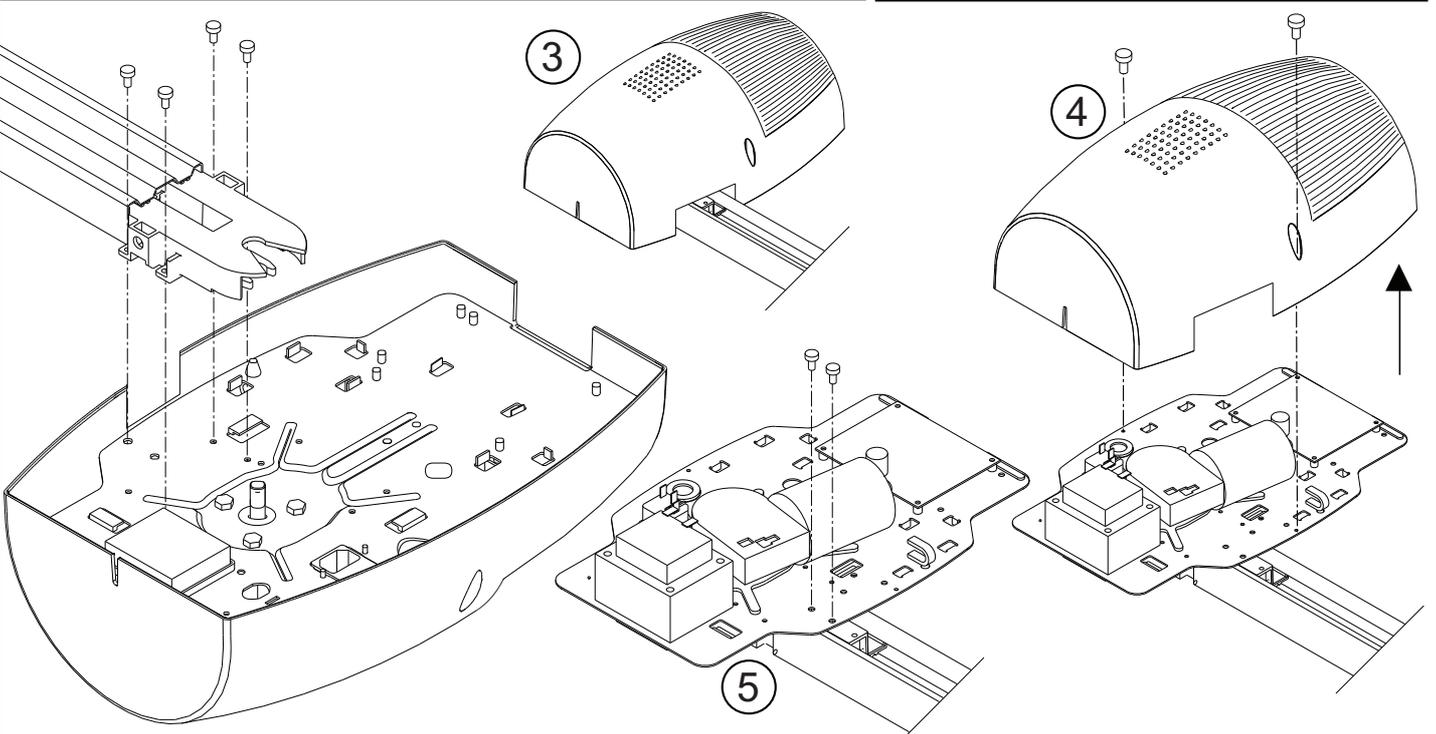
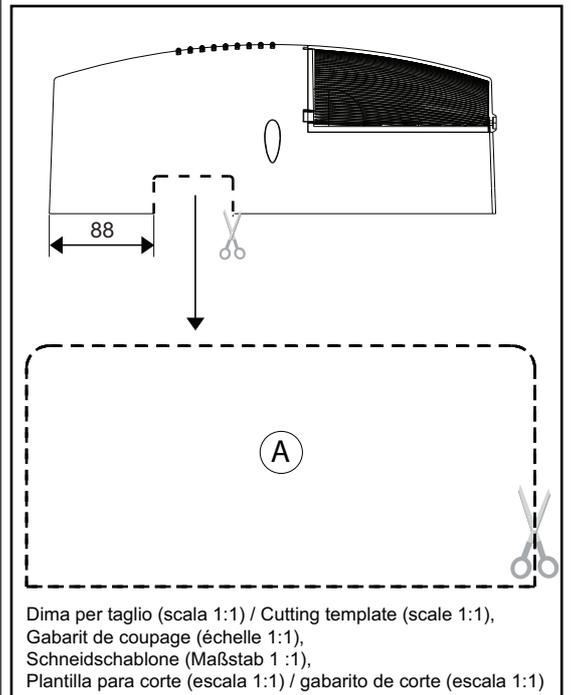


Fig.12

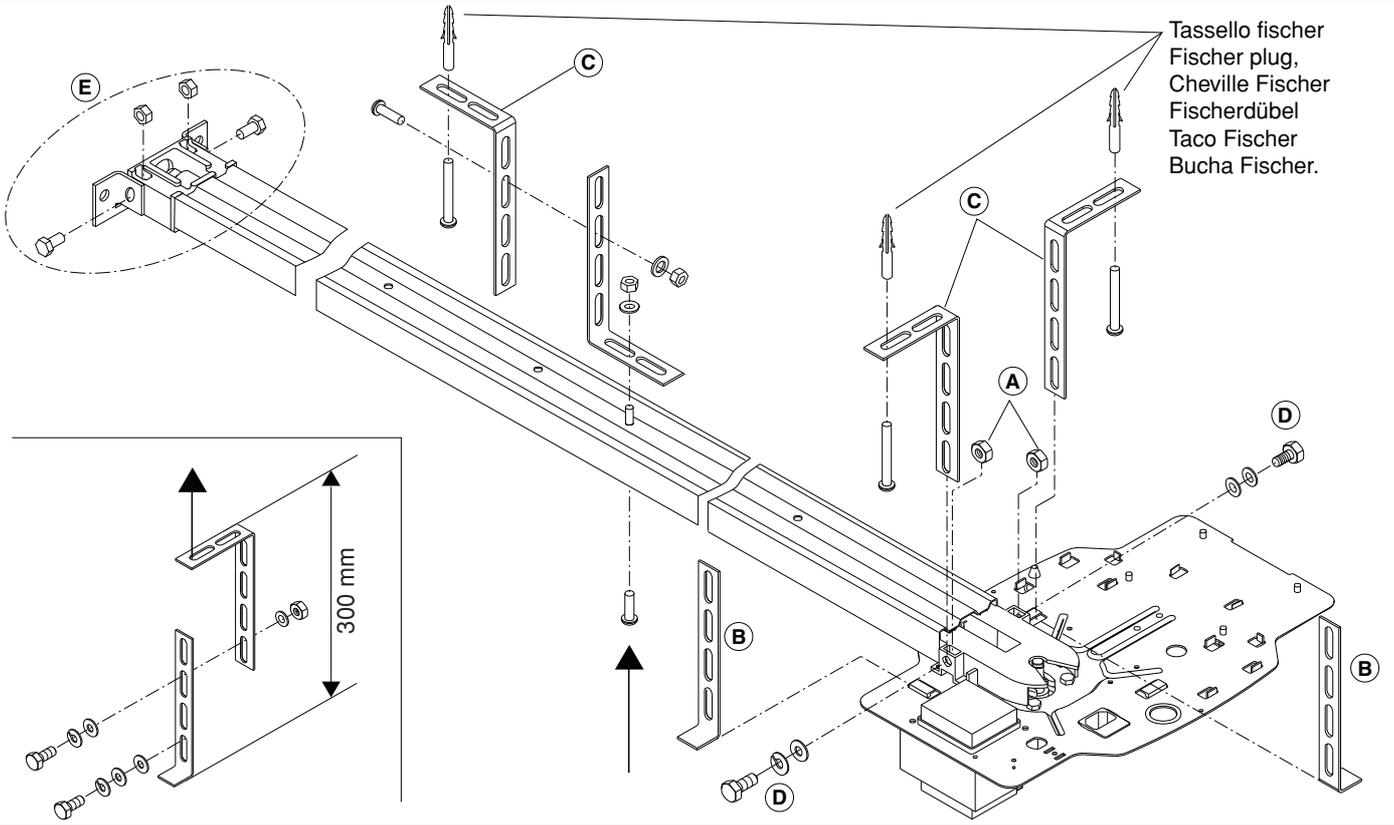


Fig.13

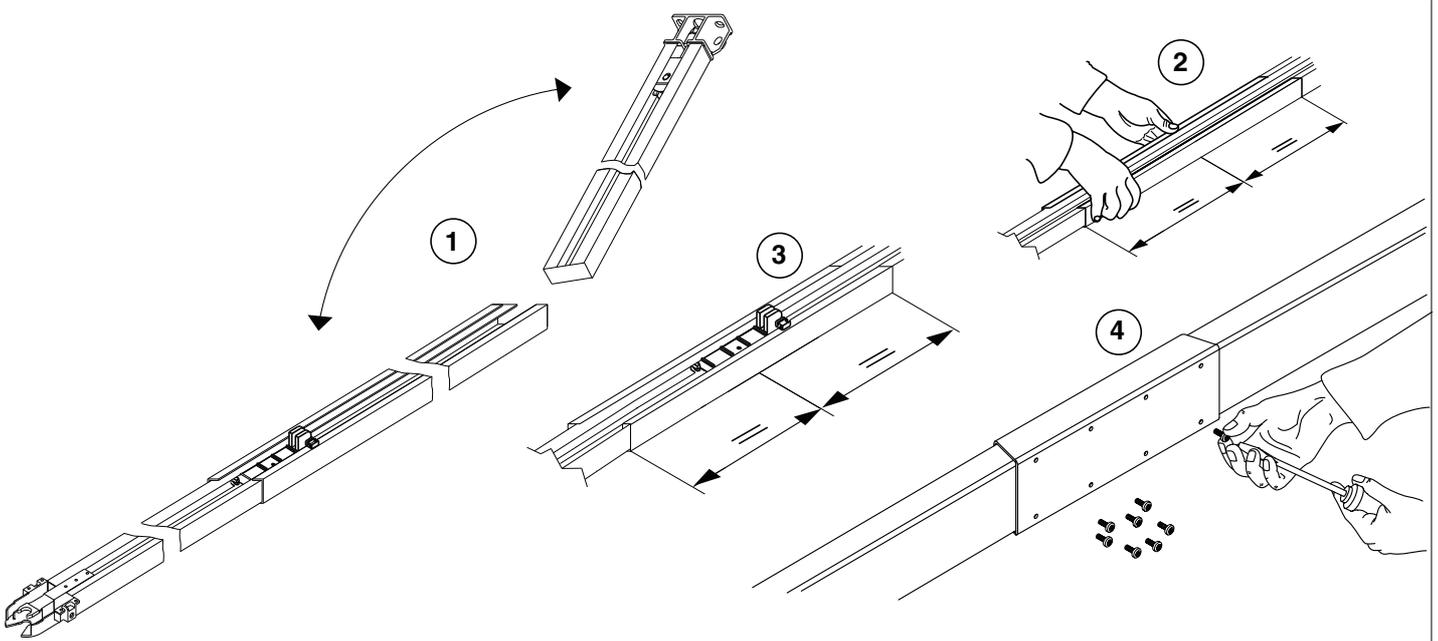
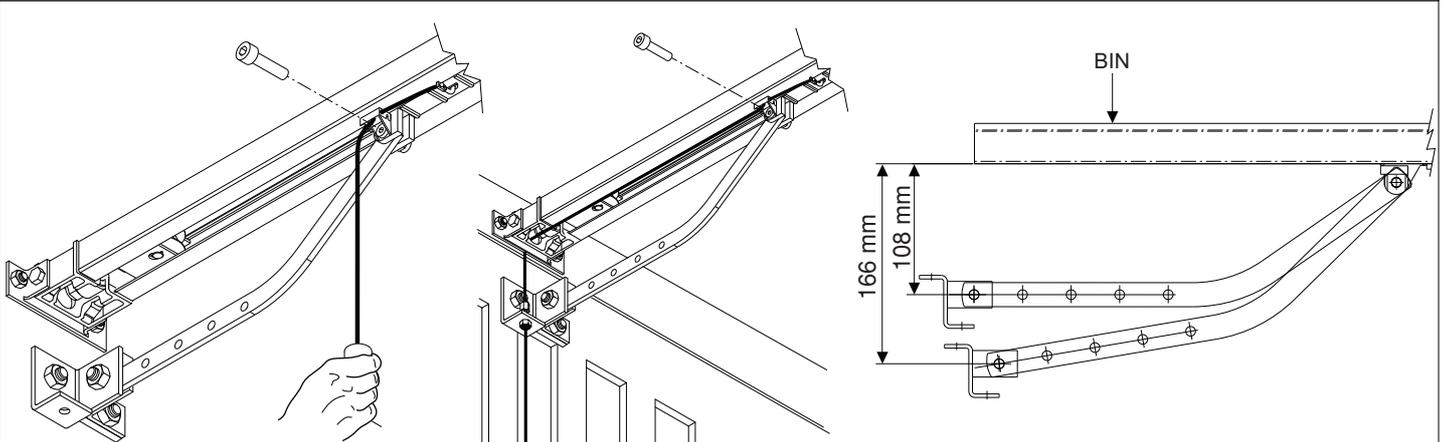


Fig.14



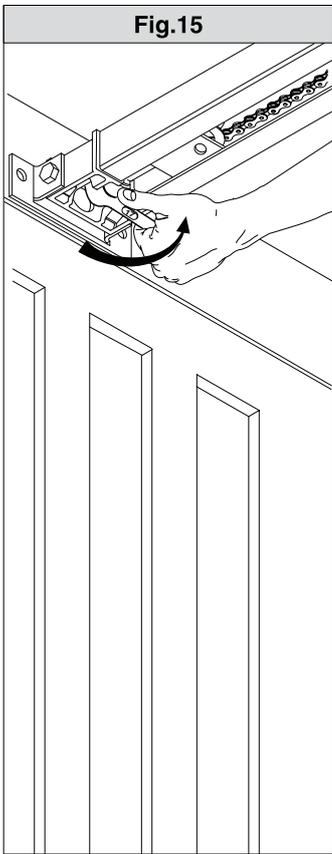


Fig.15

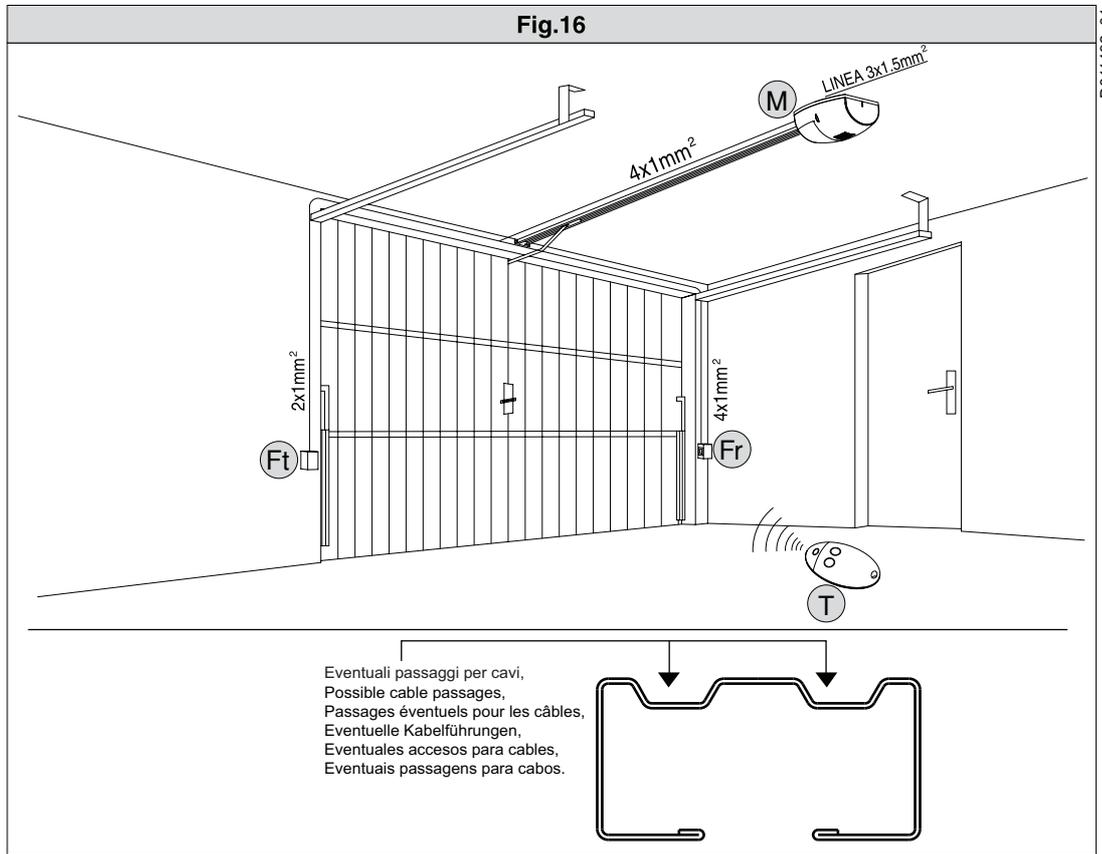
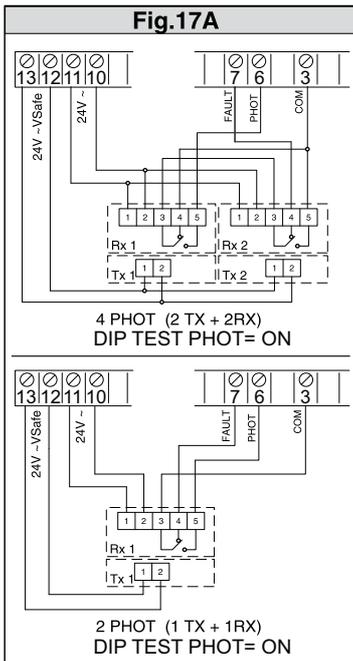


Fig.16

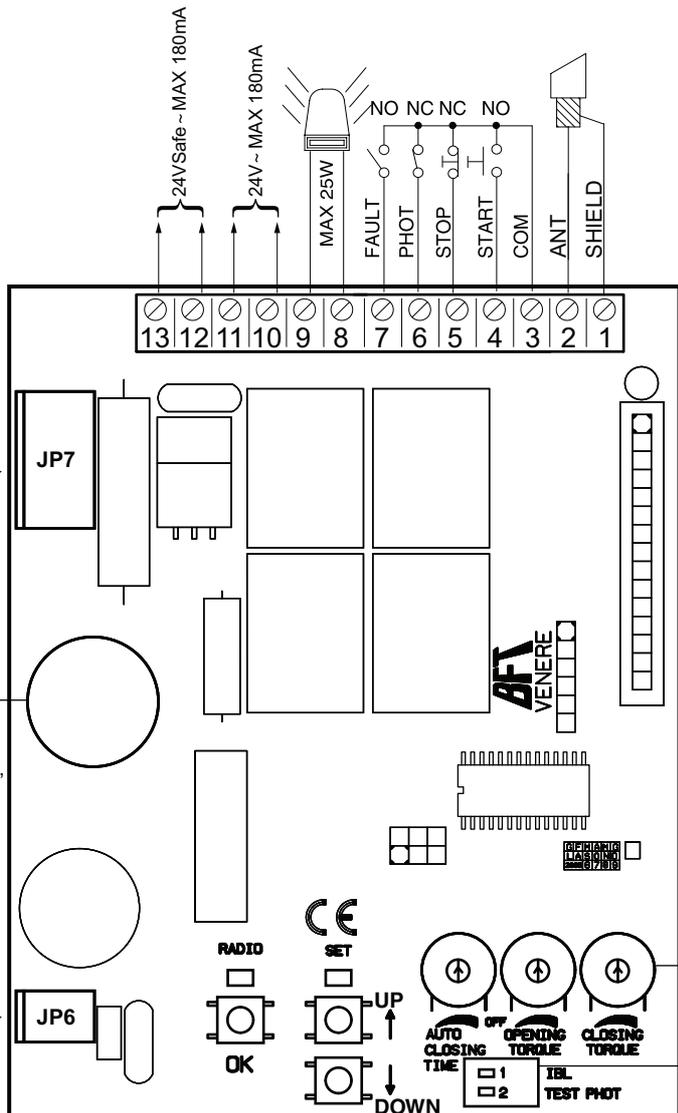
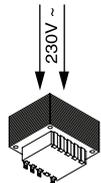
Fig.17



Luce di cortesia, Courtesy lamp,
Lampe de courtoisie, Hilfsbeleuchtung,
Luz interior, lâmpada de cortesia.

Fusibile, Fuse, Fusible,
Schmelzsicherung, Fusible,
Fusível (Fig.26):

1,25 AT



Trimmer regolazioni, Adjustment trimmer, Trimmer réglages,
Einstelltrimmer, Trimmers para las regulaciones, trimmer regulações.

DIP SWITCH

Fig. 18

REGOLAZIONE FINECORSO, LIMIT DEVICE SETTING, ÉGLAGE FIN DE COURSE, EINSTELLUNG DER ENDSCHALTER, REGULACION DEL GRUPO DE FIN DE CARRERA, REGULAÇÃO DO FIM-DE-CURSO.

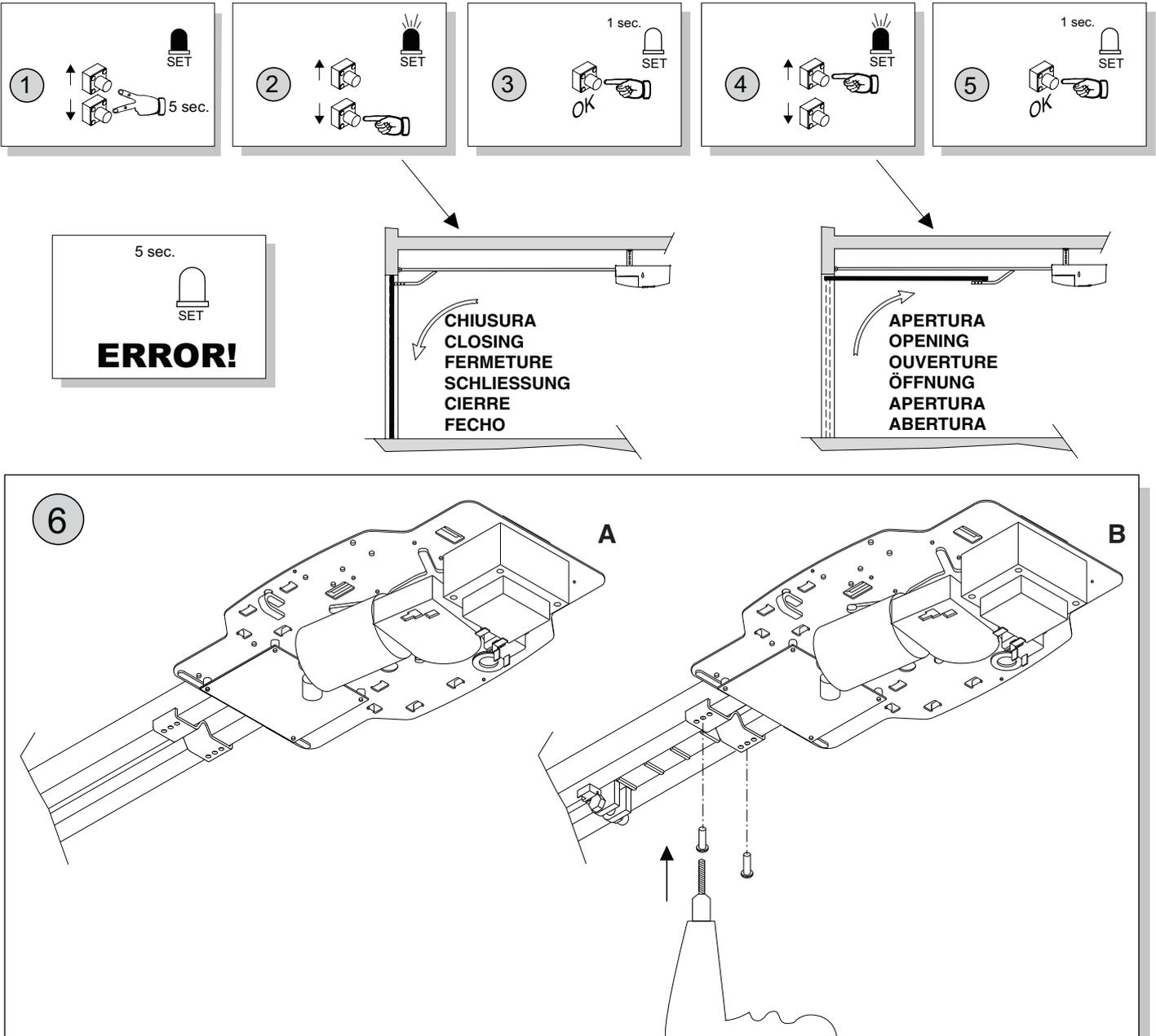


Fig. 19

AUTOSET COPPIA APERTURA / CHIUSURA, OPENING / CLOSING TORQUE AUTOSETTING, RÉGLAGE AUTOMATIQUE COUPLE OUVERTURE / FERMETURE, AUTOSET DREHMOMENT ÖFFNUNG / SCHLIESSUNG, AJUSTE AUTOMATICO DEL PAR EN FASE DE APERTURA / CIERRE, AUTOSET BINÁRIO DE ABERTURA / FECHO.

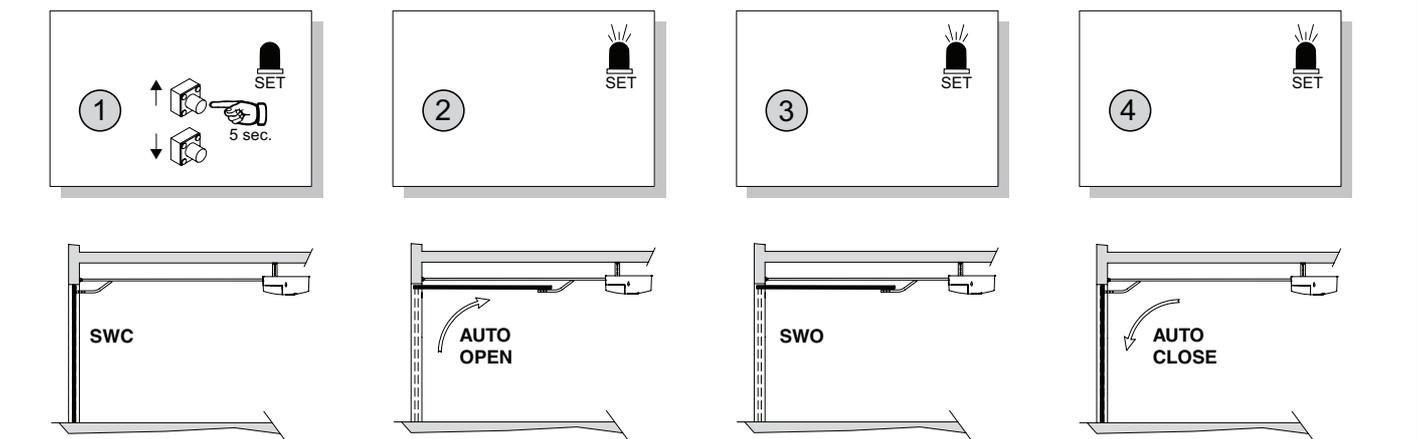
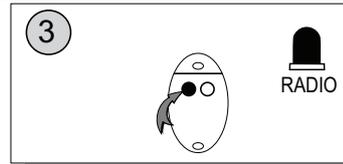
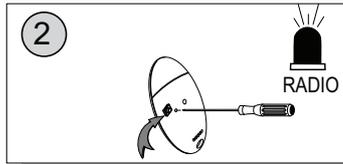
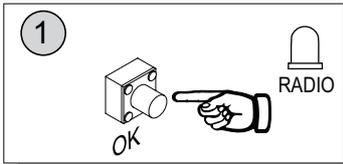


Fig. 20

PROGRAMMAZIONE TRASMETTITORI MANUALE, MANUAL TRANSMITTER PROGRAMMING, PROGRAMMATION ÉMETTEURS MANUELLE, MANUELLE SENDERPROGRAMMIERUNG, PROGRAMACION DE TRANSMISORES MANUAL, PROGRAMAÇÃO MANUAL DOS TRANSMISORES.



PROGRAMMAZIONE TRASMETTITORI REMOTA, REMOTE TRANSMITTER PROGRAMMING, PROGRAMMATION ÉMETTEURS A DISTANCE, FERNPROGRAMMIERUNG DER SENDER, PROGRAMACION DE TRANSMISORES REMOTA, PROGRAMAÇÃO REMOTA DOS TRANSMISORES.



CANCELLAZIONE TRASMETTITORI, TRANSMITTER CANCELLATION, TION ÉMETTEURS, LÖSCHEN VON SENDERN, CANCELACION DE TRANSMISORES.

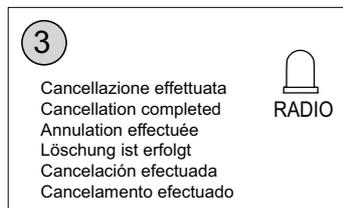
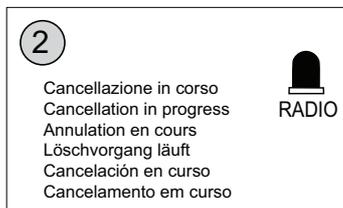
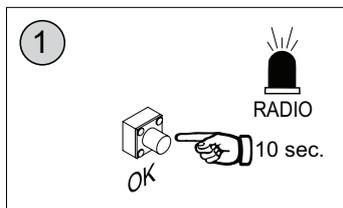


Fig. 21

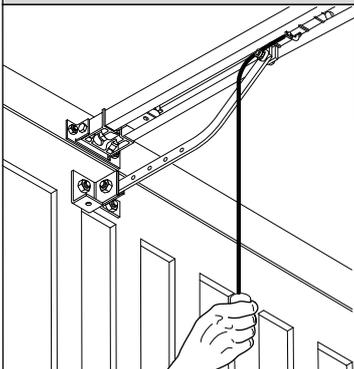


Fig. 22

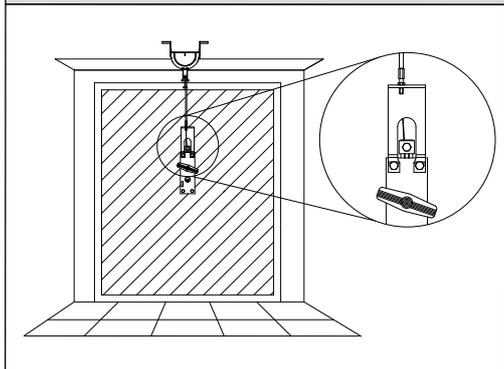


Fig. 23

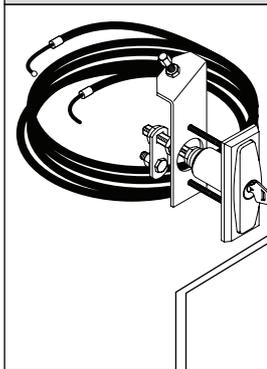


Fig. 24

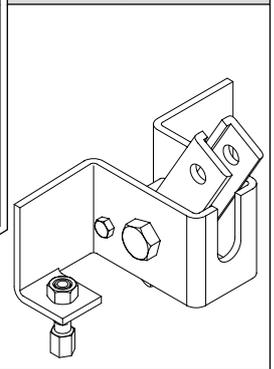
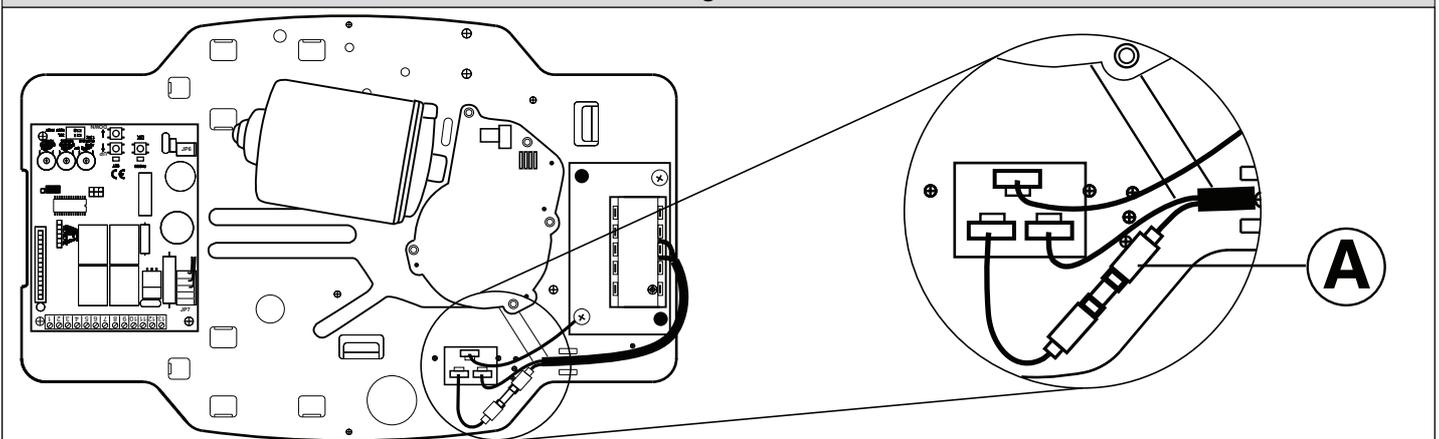


Fig. 25



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