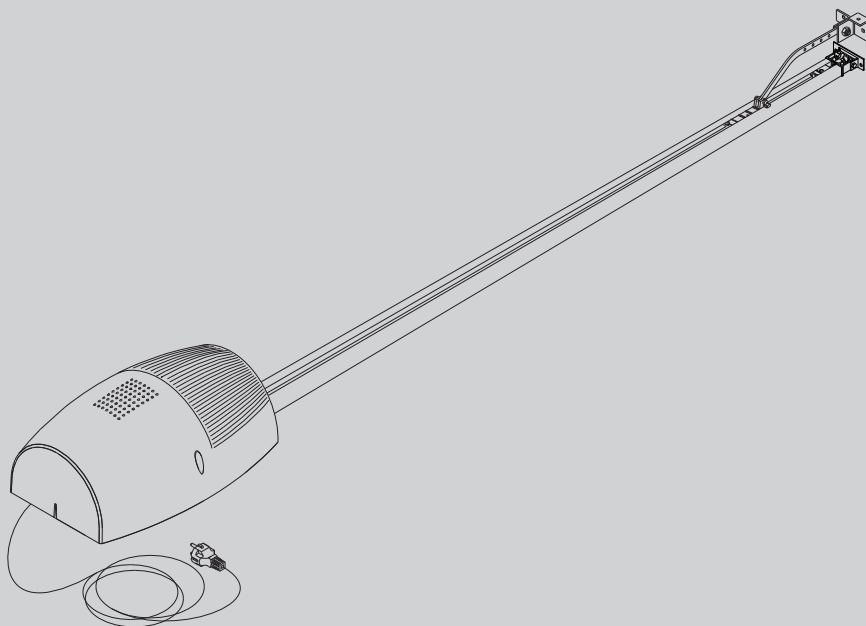




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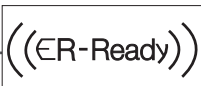
AUTOMAZIONI PER PORTE BASCULANTI E SEZIONALI
AUTOMATION FOR OVERHEAD AND SECTIONAL GARAGE DOORS
AUTOMATION POUR PORTES BASCULANTES ET SECTIONALES
GARAGENTORANTRIEB FÜR SCHWING UND SEKTIONALTORE
AUTOMATIZACIONES PARA PUERTAS BASCULANTE Y SECCIONALES
AUTOMATISERINGEN VOOR KANTEL- EN SECTIEDEUREN



EOS 1200 U

ISTRUZIONI D'USO E DI INSTALLAZIONE
INSTALLATION AND USER'S MANUAL
INSTRUCTIONS D'UTILISATION ET D'INSTALLATION
INSTALLATIONS-UND GEBRAUCHSANLEITUNG
INSTRUCCIONES DE USO Y DE INSTALACION
GEBRUIKS- EN INSTALLATIEAANWIJZINGEN

BFT



AZIENDA CON SISTEMA DI GESTIONE
INTEGRATO CERTIFICATO DA DNV
= UNI EN ISO 9001:2008 =
UNI EN ISO 14001:2004

Attenzione! Leggere attentamente le "Avvertenze" all'interno! **Caution!** Read "Warnings" inside carefully! **Attention!** Veuillez lire attentivement les Avertissements qui se trouvent à l'intérieur!
Achtung! Bitte lesen Sie aufmerksam die „Hinweise“ im Inneren! **¡Atención!** Leer atentamente las "Advertencias" en el interior! **Let op!** Lees de "Waarschuwingen" aan de binnenkant zorgvuldig!

ATTENZIONE! Importanti istruzioni di sicurezza. Leggere e seguire attentamente le Avvertenze e le Istruzioni che accompagnano il prodotto poiché un uso improprio può causare danni a persone, animali o cose. Conservare le istruzioni per consultazioni future e trasmetterle ad eventuali subentranti nell'uso dell'impianto.

Questo prodotto dovrà essere destinato solo all'uso per il quale è stato espressamente installato. Ogni altro uso è da considerarsi improprio e quindi pericoloso. Il costruttore non può essere considerato responsabile per eventuali danni causati da usi impropri, erronei e irragionevoli.

SICUREZZA GENERALE

Nel ringraziarVi per la preferenza accordata a questo prodotto, la Ditta è certa che da esso otterrete le prestazioni necessarie al Vostro uso.

Questo prodotto risponde alle norme riconosciute della tecnica e della disposizioni relative alla sicurezza se correttamente installato da personale qualificato ed esperto (installatore professionale). L'automazione, se installata ed utilizzata correttamente, soddisfa gli standard di sicurezza nell'uso. Tuttavia è opportuno osservare alcune regole di comportamento per evitare inconvenienti accidentali:

- Tenere bambini, persone e cose fuori dal raggio d'azione dell'automazione, in particolare durante il movimento.
- Non permettere a bambini di giocare o sostare nel raggio di azione dell'automazione.
- L'apparecchio può essere utilizzato da bambini di età non inferiore a 8 anni e da persone con ridotte capacità fisiche, sensoriali o mentali, o prive di esperienza o della necessaria conoscenza, purché sotto sorveglianza oppure dopo che le stesse abbiano ricevuto istruzioni relative all'uso sicuro dell'apparecchio e alla comprensione dei pericoli ad esso inerenti. I bambini non devono giocare con l'apparecchio. La pulizia e la manutenzione destinata ad essere effettuata dall'utilizzatore non deve essere effettuata da bambini senza sorveglianza.
- I bambini devono essere sorvegliati per sincerarsi che non giochino con l'apparecchio. Non permettere ai bambini di giocare con i controlli fissi. Tenere i telecomandi lontani dai bambini.
- Evitare di operare in prossimità delle cerniere o organi meccanici in movimento.
- Non contrastare il movimento dell'anta e non tentare di aprire manualmente la porta se non è stato sbloccato l'attuatore con l'apposito sblocco.
- Non entrare nel raggio di azione della porta o cancello motorizzati durante il loro movimento.
- Non lasciare radiocomandi o altri dispositivi di comando alla portata dei bambini onde evitare azionamenti involontari.
- L'attivazione dello sblocco manuale potrebbe causare movimenti incontrollati della porta se in presenza di guasti meccanici o di condizioni di squilibrio.
- In caso di apritapparelle: sorvegliare la tapparella in movimento e tenere lontano le persone finché non è completamente chiusa. Porre cura quando si aziona lo sblocco se presente, poiché una tapparella aperta potrebbe cadere rapidamente in presenza di usura o rotture.
- La rottura o l'usura di organi meccanici della porta (parte guidata), quali ad esempio cavi, molle, sup-

porti, cardini, guide.. potrebbe generare pericoli. Far controllare periodicamente l'impianto da personale qualificato ed esperto (installatore professionale) secondo quanto indicato dall'installatore o dal costruttore della porta.

- Per ogni operazione di pulizia esterna, togliere l'alimentazione di rete.
- Tenere pulite le ottiche delle fotocellule ed i dispositivi di segnalazione luminosa. Controllare che rami ed arbusti non disturbino i dispositivi di sicurezza.
- Non utilizzare l'automatismo se necessita di interventi di riparazione. In caso di guasto o di malfunzionamento dell'automazione, togliere l'alimentazione di rete sull'automazione, astenersi da qualsiasi tentativo di riparazione o intervento diretto e rivolgersi solo a personale qualificato ed esperto (installatore professionale) per la necessaria riparazione o manutenzione. Per consentire l'accesso, attivare lo sblocco di emergenza (se presente).
- Per qualsiasi intervento diretto sull'automazione o sull'impianto non previsto dal presente manuale, avvalersi di personale qualificato ed esperto (installatore professionale).
- Con frequenza almeno annuale far verificare l'integrità e il corretto funzionamento dell'automazione da personale qualificato ed esperto (installatore professionale), in particolare di tutti i dispositivi di sicurezza.
- Gli interventi d'installazione, manutenzione e riparazione devono essere documentati e la relativa documentazione tenuta a disposizione dell'utilizzatore.
- Il mancato rispetto di quanto sopra può creare situazioni di pericolo.



DEMOLIZIONE

L'eliminazione dei materiali va fatta rispettando le norme vigenti. Non gettate il vostro apparecchio scartato, le pile o le batterie usate nei rifiuti domestici. Avete la responsabilità di restituire tutti i vostri rifiuti da apparecchiature elettriche o elettroniche lasciandoli in un punto di raccolta dedicato al loro riciclo.

Tutto quello che non è espressamente previsto nel manuale d'uso, non è permesso. Il buon funzionamento dell'operatore è garantito solo se vengono rispettate le prescrizioni riportate in questo manuale. La Ditta non risponde dei danni causati dall'inosservanza delle indicazioni riportate in questo manuale.

Lasciando inalterate le caratteristiche essenziali del prodotto, la Ditta si riserva di apportare in qualunque momento le modifiche che essa ritiene convenienti per migliorare tecnicamente, costruttivamente e commercialmente il prodotto, senza impegnarsi ad aggiornare la presente pubblicazione.

USER WARNINGS (GB)

WARNING! Important safety instructions. Carefully read and comply with the Warnings and Instructions that come with the product as improper use can cause injury to people and animals and damage to property. Keep the instructions for future reference and hand them on to any new users.

This product is meant to be used only for the purpose for which it was explicitly installed.



Any other use constitutes improper use and, consequently, is hazardous. The manufacturer cannot be held liable for any damage as a result of improper, incorrect or unreasonable use.

GENERAL SAFETY

Thank you for choosing this product. The Firm is confident that its performance will meet your operating needs.

This product meets recognized technical standards and complies with safety provisions when installed correctly by qualified, expert personnel (professional installer).

If installed and used correctly, the automated system will meet operating safety standards. Nonetheless, it is advisable to observe certain rules of behaviour so that accidental problems can be avoided:

- Keep adults, children and property out of range of the automated system, especially while it is moving.
- Do not allow children to play or stand within range of the automated system.
- The unit can be used by children over 8 years old and by people with reduced physical, sensory or mental capabilities or with no experience or necessary knowledge on condition they are supervised or trained about the safe use of the equipment and understand the risks involved. Children must not play with the unit. Cleaning and maintenance must not be performed by unsupervised children.
- Children must be supervised to ensure they do not play with the device. Do not allow children to play with the fixed controls. Keep remote controls out of reach of children.
- Do not work near hinges or moving mechanical parts.
- Do not hinder the leaf's movement and do not attempt to open the door manually unless the actuator has been released with the relevant release knob.
- Keep out of range of the motorized door or gate while they are moving.
- Keep remote controls or other control devices out of reach of children in order to avoid the automated system being operated inadvertently.
- The manual release's activation could result in uncontrolled door movements if there are mechanical faults or loss of balance.
- When using roller shutter openers: keep an eye on the roller shutter while it is moving and keep people away until it has closed completely. Exercise care when activating the release, if such a device is fitted, as an open shutter could drop quickly in the event of wear or breakage.
- The breakage or wear of any mechanical parts of the door (operated part), such as cables, springs, supports, hinges, guides..., may generate a hazard. Have the system checked by qualified, expert personnel (professional installer) at regular intervals according to the instructions issued by the installer or manufacturer of the door.
- When cleaning the outside, always cut off mains power.
- Keep the photocells' optics and illuminating indicator devices clean. Check that no branches or shrubs interfere with the safety devices.
- Do not use the automated system if it is in need of repair. In the event the automated system breaks down or malfunctions, cut off mains power to the system; do not attempt to repair or perform any other work to rectify the fault yourself and instead call in qualified, expert personnel (professional installer) to perform the necessary repairs or main-

tenance. To allow access, activate the emergency release (where fitted).

- If any part of the automated system requires direct work of any kind that is not contemplated herein, employ the services of qualified, expert personnel (professional installer).
- At least once a year, have the automated system, and especially all safety devices, checked by qualified, expert personnel (professional installer) to make sure that it is undamaged and working properly.
- A record must be made of any installation, maintenance and repair work and the relevant documentation kept and made available to the user on request.
- Failure to comply with the above may result in hazardous situations.



SCRAPPING

Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling centre.

Anything that is not explicitly provided for in the user guide is not allowed. The operator's proper operation can only be guaranteed if the instructions given herein are complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein.

While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

AVERTISSEMENTS POUR L'UTILISATEUR (F)

ATTENTION ! Instructions de sécurité importantes. Veuillez lire et suivre attentivement tous les avertissements et toutes les instructions fournis avec le produit sachant qu'un usage incorrect peut provoquer des préjudices aux personnes, aux animaux ou aux biens. Veuillez conserver les instructions pour d'ultérieures consultations et pour les transmettre aux propriétaires futurs éventuels.

Cet appareil ne peut être destiné qu'à l'usage pour lequel il a été expressément installé. Tout autre usage sera considéré comme impropre et donc dangereux. Le fabricant ne sera en aucun cas considéré comme responsable des préjudices dus à un usage impropre, erroné ou déraisonné.

SECURITE GÉNÉRALE

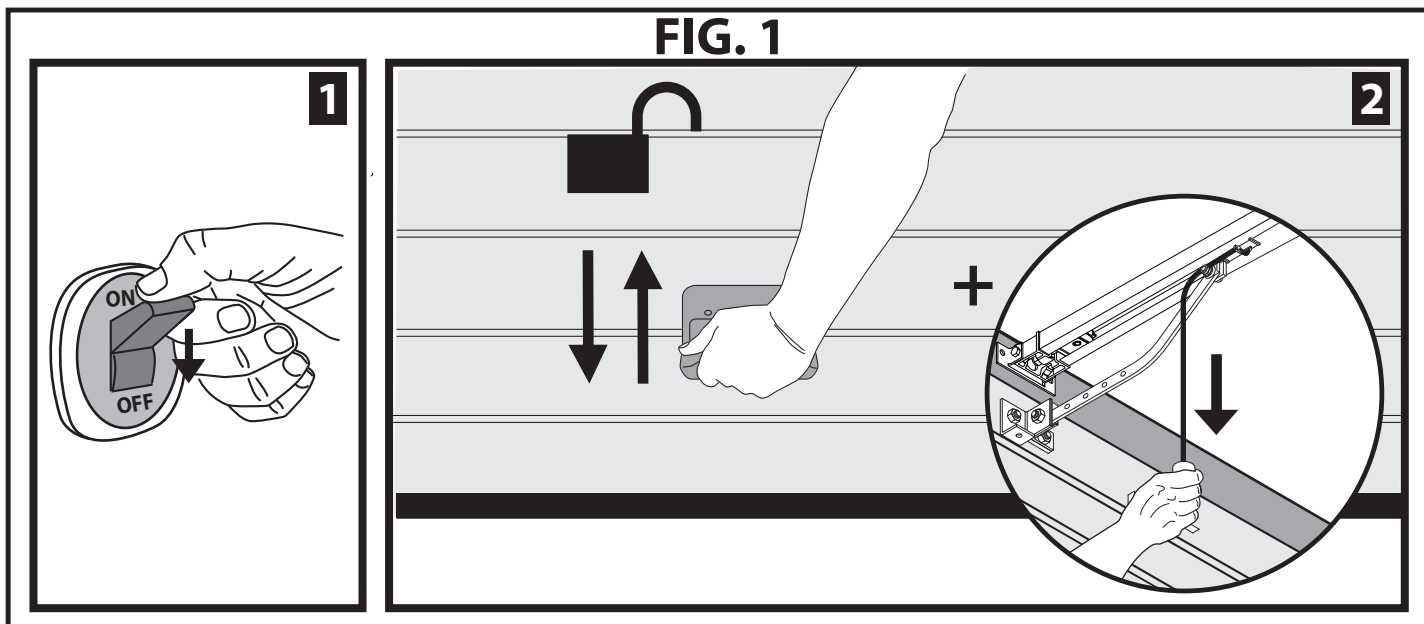
Nous vous remercions d'avoir choisi ce produit qui, nous n'en doutons pas, saura vous garantir les performances attendues.

Ce produit, correctement installé par du personnel qualifié et expérimenté (monteur professionnel) est conforme aux normes reconnues de la technique et des prescriptions de sécurité.

Si l'automatisation est montée et utilisée correctement, elle garantit la sécurité d'utilisation prescrite. Il est cependant nécessaire de respecter certaines règles de comportement pour éviter tout inconvénient accidentel.

- Tenir les enfants, les personnes et les objets à l'écart

FIG. 1



INSTALLER WARNINGS

WARNING! Important safety instructions. Carefully read and comply with all the warnings and instructions that come with the product as incorrect installation can cause injury to people and animals and damage to property. The warnings and instructions give important information regarding safety, installation, use and maintenance. Keep hold of instructions so that you can attach them to the technical file and keep them handy for future reference.

GENERAL SAFETY

This product has been designed and built solely for the purpose indicated herein. Uses other than those indicated herein might cause damage to the product and create a hazard.

- The units making up the machine and its installation must meet the requirements of the following European Directives, where applicable: 2014/30/EC, 2014/35/EC, 2006/42/EC, 2011/305/EC, 99/05/EC and later amendments. For all countries outside the EEC, it is advisable to comply with the standards mentioned, in addition to any national standards in force, to achieve a good level of safety.
- The Manufacturer of this product (hereinafter referred to as the "Firm") disclaims all responsibility resulting from improper use or any use other than that for which the product has been designed, as indicated herein, as well as for failure to apply Good Practice in the construction of entry systems (doors, gates, etc.) and for deformation that could occur during use.
- Installation must be carried out by qualified personnel (professional installer, according to EN 12635), in compliance with Good Practice and current code.
- Before installing the product, make all structural changes required to produce safety gaps and to provide protection from or isolate all crushing, shearing and dragging hazard areas and danger zones in general in accordance with the provisions of standards EN 12604 and 12453 or any local installation standards. Check that the existing structure meets the necessary strength and stability requirements.
- Before commencing installation, check the product for damage.
- The Firm is not responsible for failure to apply Good Practice in the construction and maintenance of the doors, gates, etc. to be motorized, or for deformation that might occur during use.
- Make sure the stated temperature range is compatible with the site in which the automated system is due to be installed.
- Do not install this product in an explosive atmosphere: the presence of flammable fumes or gas constitutes a serious safety hazard.
- Disconnect the electricity supply before performing any work on the system. Also disconnect buffer batteries, if any are connected.
- Before connecting the power supply, make sure the product's ratings match the mains ratings and that a suitable residual current circuit breaker and overcurrent protection device have been installed upline from the electrical system. Have the automated system's mains power supply fitted with a switch or omnipolar thermal-magnetic circuit breaker with a contact separation that provide full disconnection under overvoltage category III conditions.
- Make sure that upline from the mains power supply there is a residual current circuit breaker that trips at no more than 0.03A as well as any other equipment required by code.
- Make sure the earth system has been installed correctly: earth all the metal parts belonging to the entry system (doors, gates, etc.) and all parts of the system featuring an earth terminal.
- Installation must be carried out using safety devices and controls that meet standards EN 12978 and EN 12453.
- Impact forces can be reduced by using deformable edges.
- In the event impact forces exceed the values laid down by the relevant standards, apply electro-sensitive or pressure-sensitive devices.
- Apply all safety devices (photocells, safety edges, etc.) required to keep the area free of impact, crushing, dragging and shearing hazards. Bear in mind the standards and directives in force, Good Practice criteria, intended use, the installation environment, the operating logic of the system and forces generated by the automated system.
- Apply all signs required by current code to identify hazardous areas (residual risks). All installations must be visibly identified in compliance with the provisions of standard EN 13241-1.
- Once installation is complete, apply a nameplate featuring the door/gate's data.
- This product cannot be installed on leaves incorporating doors (unless the motor can be activated only when the door is closed).
- If the automated system is installed at a height of less than 2.5 m or is accessible, the electrical and mechanical parts must be suitably protected.
- For roller shutter automation only
 - 1) The motor's moving parts must be installed at a height greater than 2.5 m above the floor or other surface from which they may be reached.
 - 2) The gearmotor must be installed in a segregated and suitably protected space so that it cannot be reached without the aid of tools.
- Install any fixed controls in a position where they will not cause a hazard, away from moving parts. More specifically, hold-to-run controls must be positioned within direct sight of the part being controlled and, unless they are key operated, must be installed at a height of at least 1.5 m and in a place where they cannot be reached by the public.
- Apply at least one warning light (flashing light) in a visible position, and also attach a Warning sign to the structure.
- Attach a label near the operating device, in a permanent fashion, with information on how to operate the automated system's manual release.
- Make sure that, during operation, mechanical risks are avoided or relevant protective measures taken and, more specifically, that nothing can be banged, crushed, caught or cut between the part being operated and surrounding parts.
- Once installation is complete, make sure the motor automation settings are correct and that the safety and release systems are working properly.
- Only use original spare parts for any maintenance or repair work. The Firm disclaims all responsibility for the correct operation and safety of the automated system if parts from other manufacturers are used.
- Do not make any modifications to the automated system's components unless explicitly authorized by the Firm.
- Instruct the system's user on what residual risks may be encountered, on the control systems that have been applied and on how to open the system manually in an emergency. Give the user guide to the end user.

- Dispose of packaging materials (plastic, cardboard, polystyrene, etc.) in accordance with the provisions of the laws in force. Keep nylon bags and polystyrene out of reach of children.

WIRING

WARNING! For connection to the mains power supply, use: a multicore cable with a cross-sectional area of at least 5x1.5mm² or 4x1.5mm² when dealing with three-phase power supplies or 3x1.5mm² for single-phase supplies (by way of example, type H05RN-F cable can be used with a cross-sectional area of 4x1.5mm²). To connect auxiliary equipment, use wires with a cross-sectional area of at least 0.5 mm².

- Only use pushbuttons with a capacity of 10A-250V or more.
- Wires must be secured with additional fastening near the terminals (for example, using cable clamps) in order to keep live parts well separated from safety extra low voltage parts.
- During installation, the power cable must be stripped to allow the earth wire to be connected to the relevant terminal, while leaving the live wires as short as possible. The earth wire must be the last to be pulled taut in the event the cable's fastening device comes loose.

WARNING! safety extra low voltage wires must be kept physically separate from low voltage wires.

Only qualified personnel (professional installer) should be allowed to access live parts.

CHECKING THE AUTOMATED SYSTEM AND MAINTENANCE

Before the automated system is finally put into operation, and during maintenance work, perform the following checks meticulously:

- Make sure all components are fastened securely.
- Check starting and stopping operations in the case of manual control.
- Check the logic for normal or personalized operation.
- For sliding gates only: check that the rack and pinion mesh correctly with 2 mm of play along the full length of the rack; keep the track the gate slides on clean and free of debris at all times.
- For sliding gates and doors only: make sure the gate's running track is straight and horizontal and that the wheels are strong enough to take the weight of the gate.
- For cantilever sliding gates only: make sure there is no dipping or swinging during operation.
- For swing gates only: make sure the leaves' axis of rotation is perfectly vertical.
- For barriers only: before opening the door, the spring must be decompressed (vertical boom).
- Check that all safety devices (photocells, safety edges, etc.) are working properly and that the anti-crush safety device is set correctly, making sure that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.
- Impact forces can be reduced by using deformable edges.
- Make sure that the emergency operation works, where this feature is provided.
- Check opening and closing operations with the control devices applied.
- Check that electrical connections and cabling are intact, making extra sure that insulating sheaths and cable glands are undamaged.
- While performing maintenance, clean the photocells' optics.
- When the automated system is out of service for any length of time, activate the emergency release (see "EMERGENCY OPERATION" section) so that the operated part is made idle, thus allowing the gate to be opened and closed manually.
- If the power cord is damaged, it must be replaced by the manufacturer or their technical assistance department or other such qualified person to avoid any risk.
- If "D" type devices are installed (as defined by EN12453), connect in unverified mode, foresee mandatory maintenance at least every six months
- The maintenance described above must be repeated at least once yearly or at shorter intervals where site or installation conditions make this necessary.

WARNING!

Remember that the drive is designed to make the gate/door easier to use and will not solve problems as a result of defective or poorly performed installation or lack of maintenance



SCRAPPING

Materials must be disposed of in accordance with the regulations in force. Do not throw away your discarded equipment or used batteries with household waste. You are responsible for taking all your waste electrical and electronic equipment to a suitable recycling centre.

DISMANTLING

If the automated system is being dismantled in order to be reassembled at another site, you are required to:

- Cut off the power and disconnect the whole electrical system.
- Remove the actuator from the base it is mounted on.
- Remove all the installation's components.
- See to the replacement of any components that cannot be removed or happen to be damaged.

**DECLARATIONS OF CONFORMITY CAN BE FOUND AT <http://www.bft-automation.com/CE>
INSTRUCTIONS FOR USE AND ASSEMBLY CAN BE FOUND IN THE DOWN-LOAD SECTION.**

Anything that is not explicitly provided for in the installation manual is not allowed. The operator's proper operation can only be guaranteed if the information given is complied with. The Firm shall not be answerable for damage caused by failure to comply with the instructions featured herein.

While we will not alter the product's essential features, the Firm reserves the right, at any time, to make those changes deemed opportune to improve the product from a technical, design or commercial point of view, and will not be required to update this publication accordingly.

Fig. 1

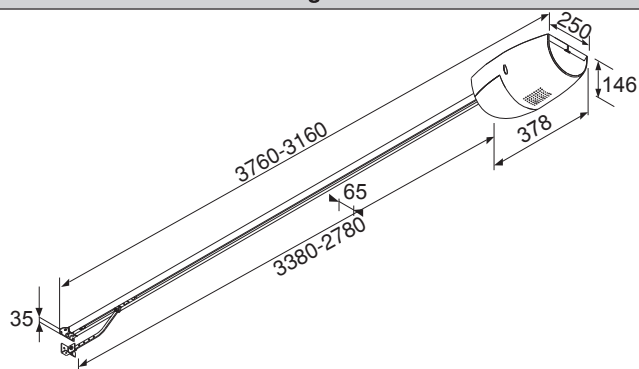


Fig. 2

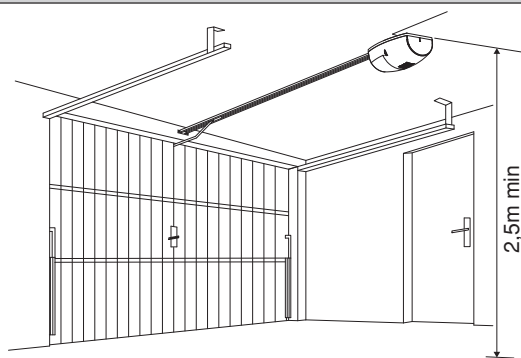


Fig. 3

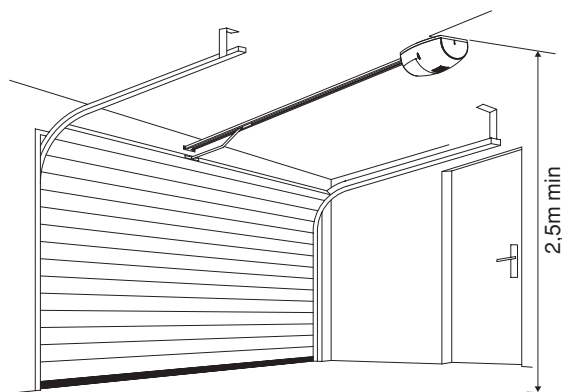


Fig. 3A

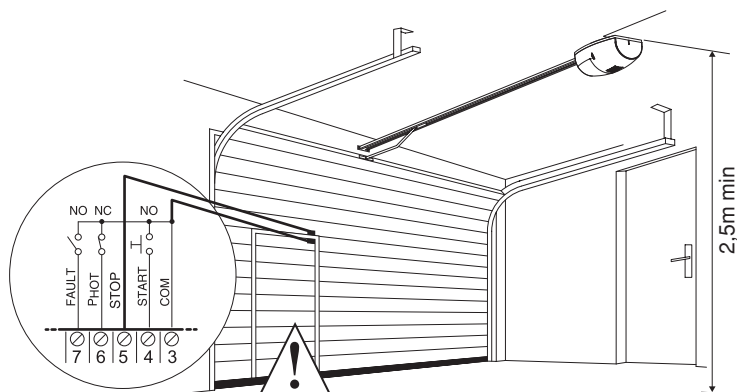


Fig. 4

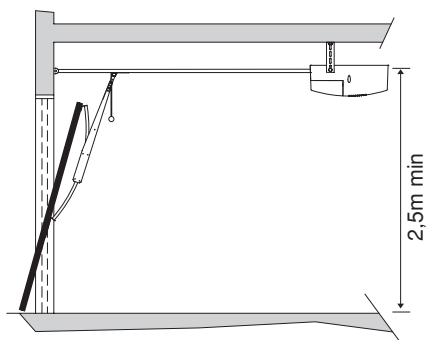


Fig. 5

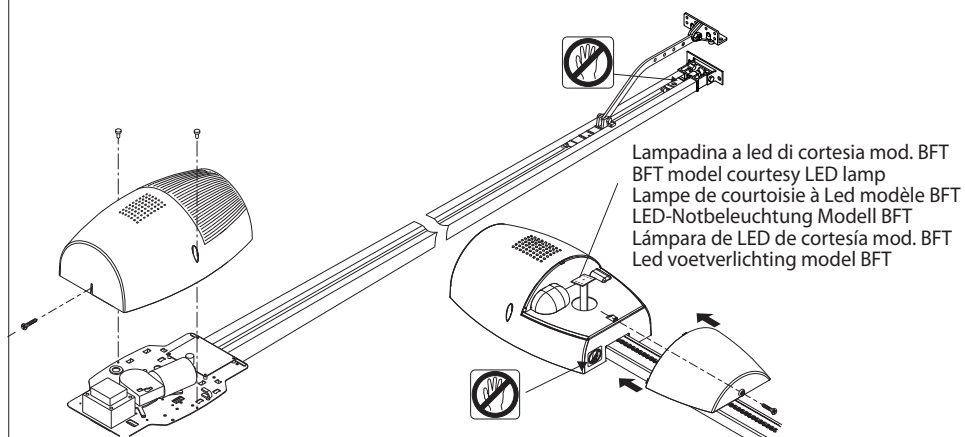


Fig. 6

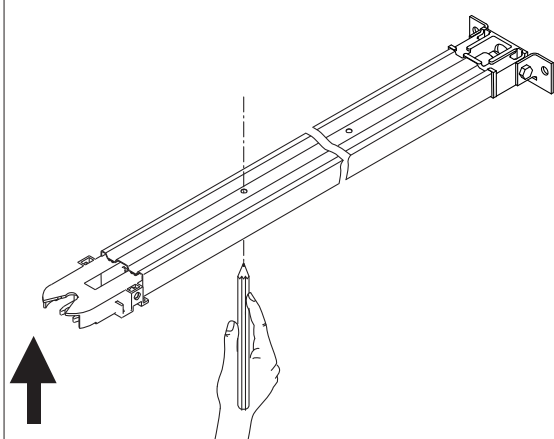
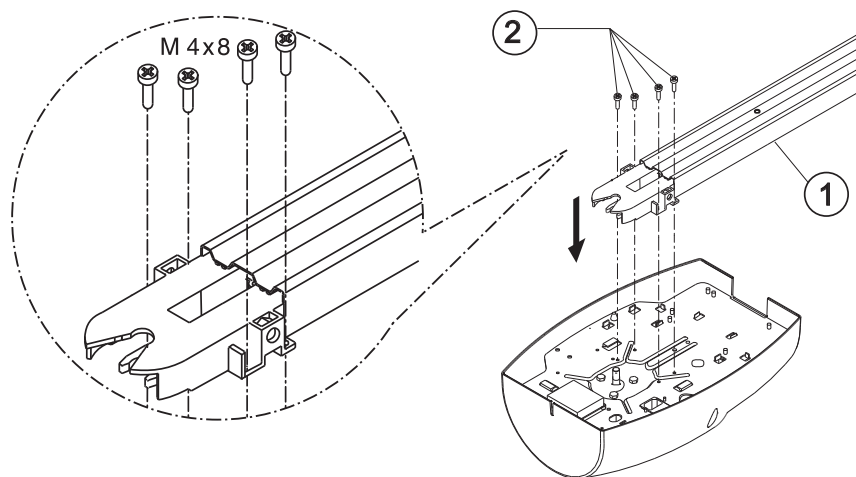


Fig. 7



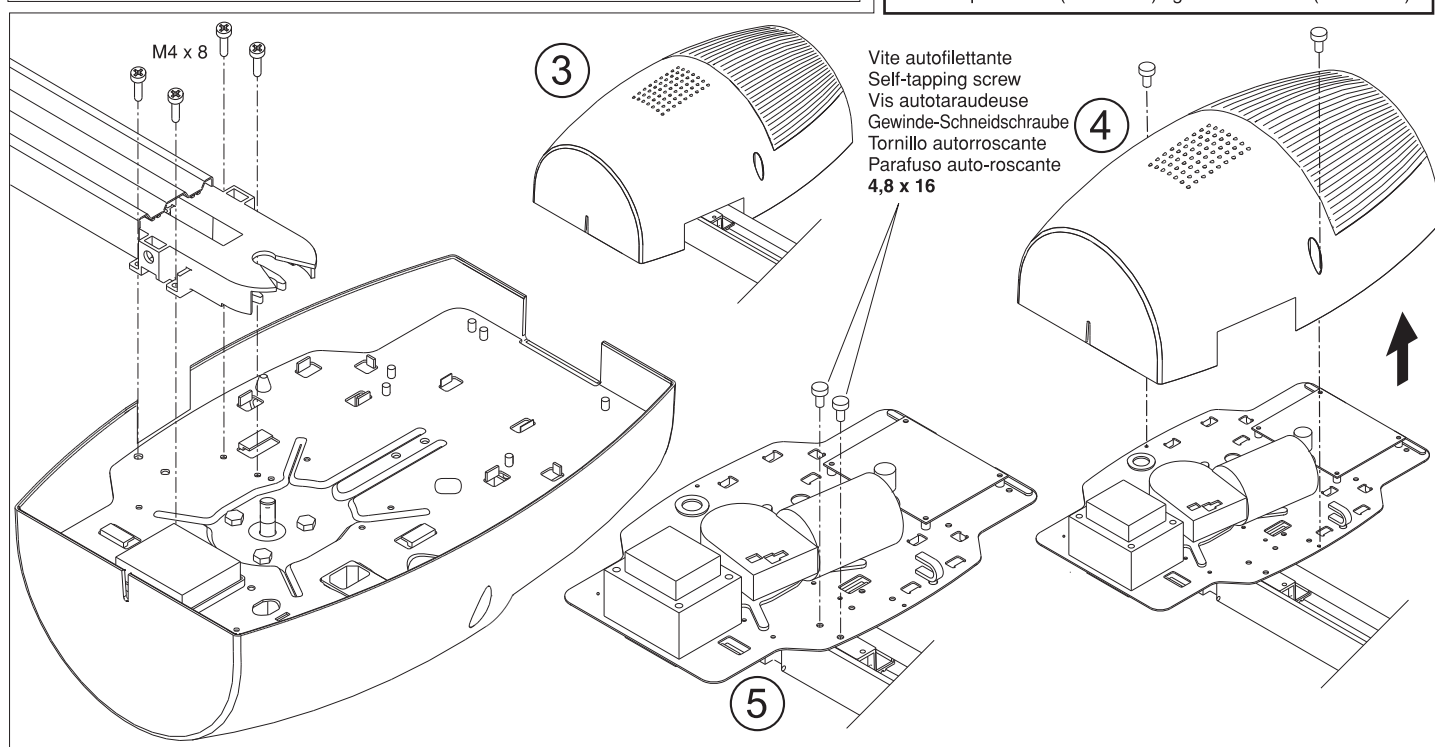
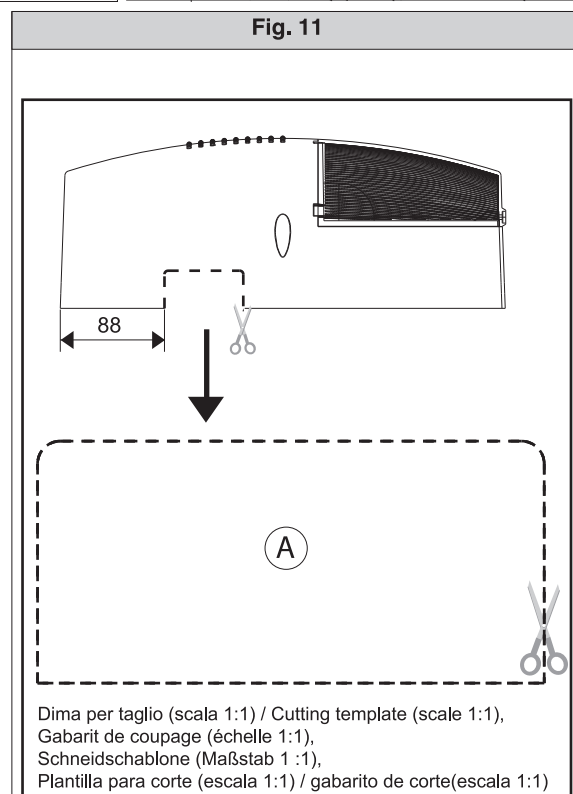
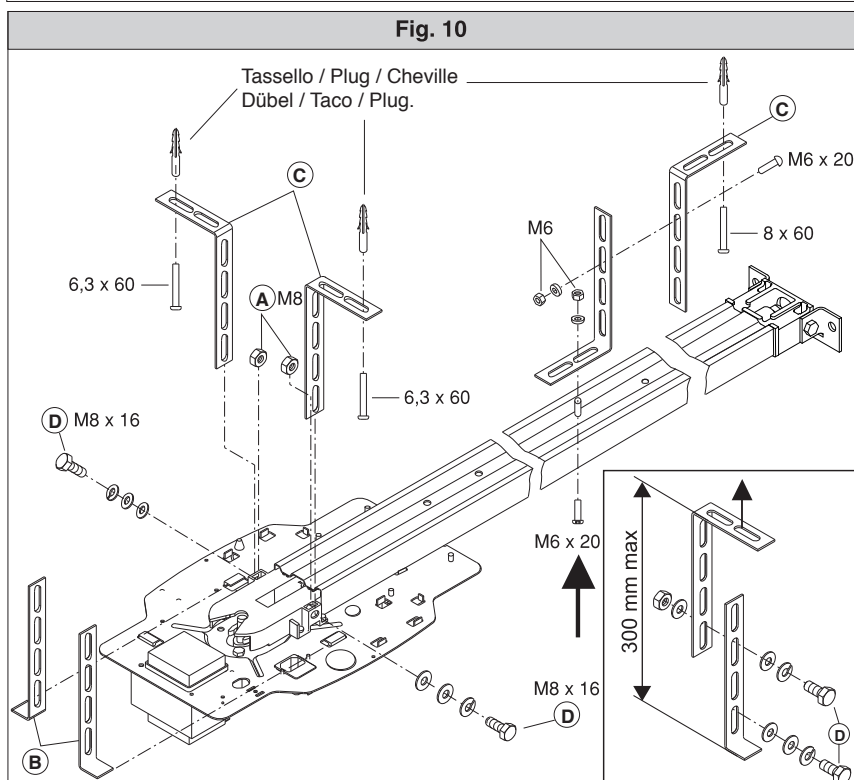
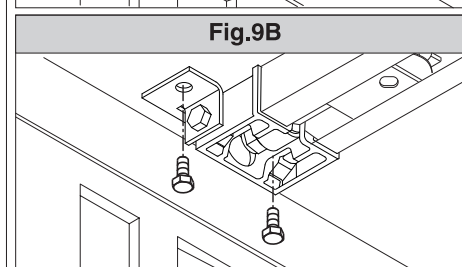
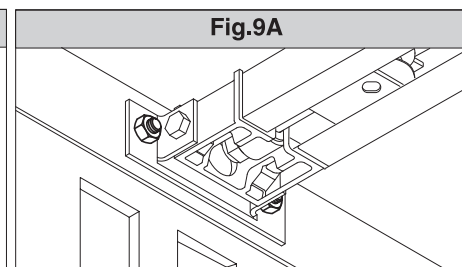


Fig.15

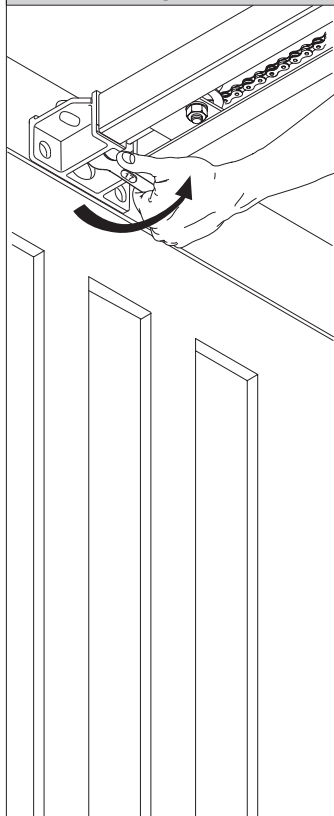


Fig.16

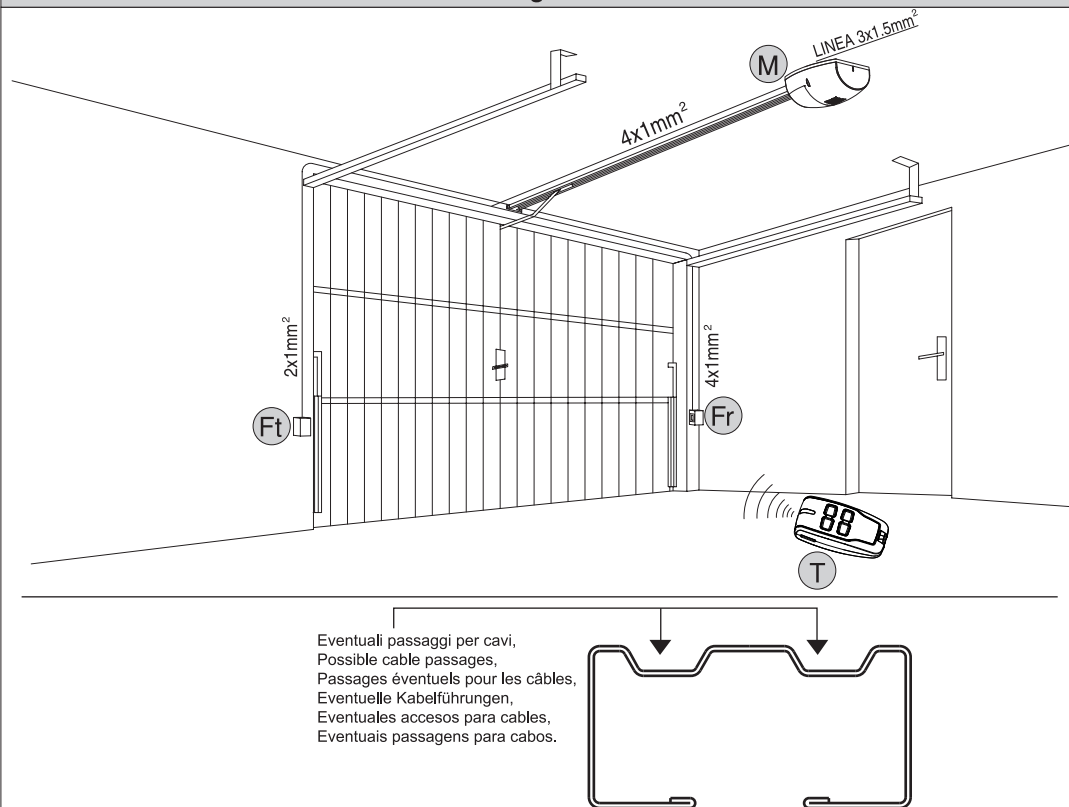
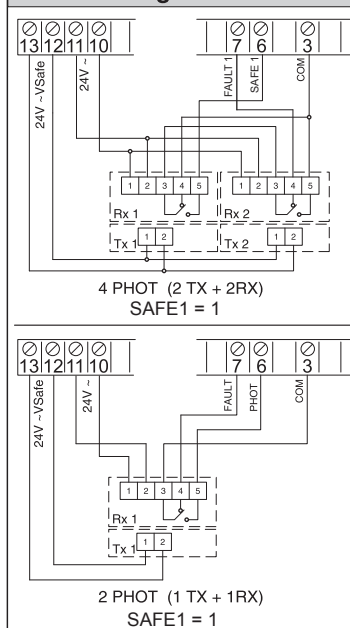


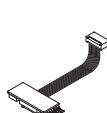
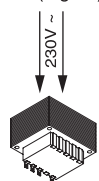
Fig.17

Fig.17A



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

Fusibile, Fuse, Fusible,
Schmelzsicherung, Fusible,
Fusivel (Fig.25):



Connettore programmatore palmare,
Palmtop programmer connector,
Connecteur programmeur de poche,
Steckverbinder Palmtop-Programmierer,
Conector del programador de bolsillo,
Conector programador palmar.

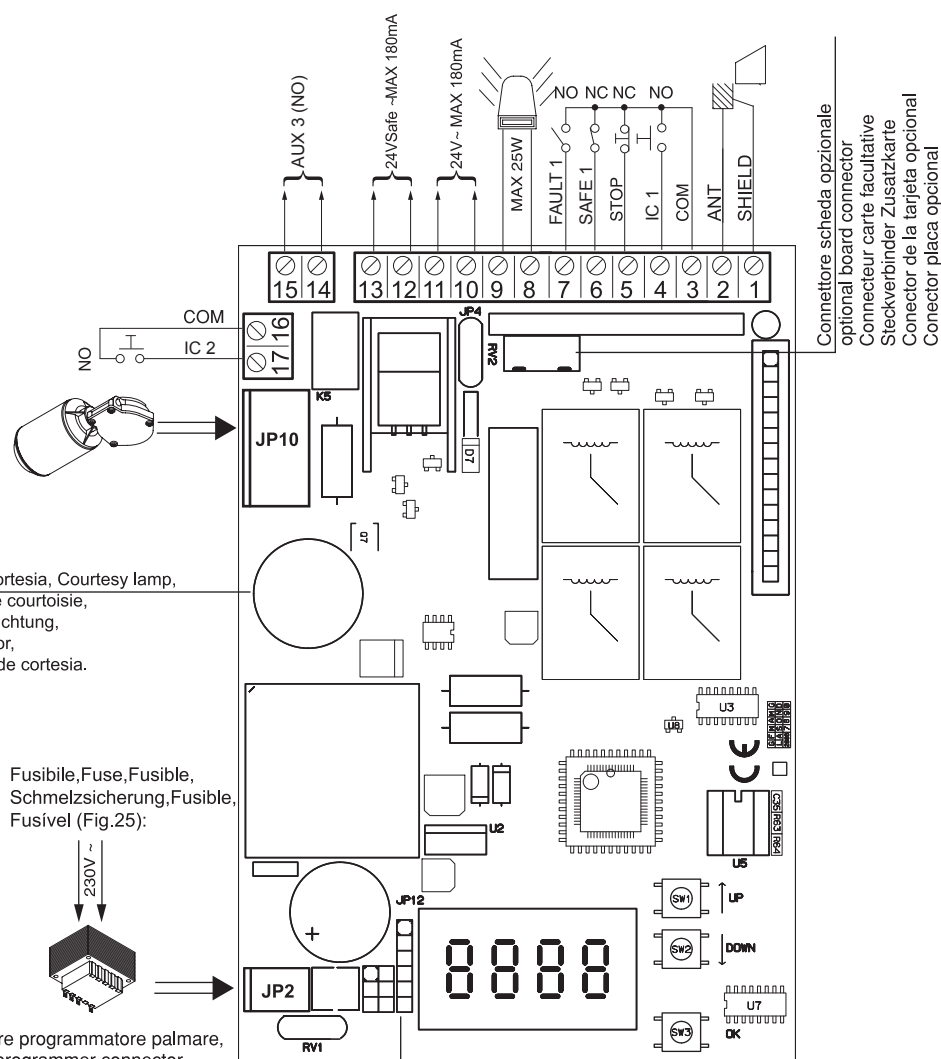


Fig. 18

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

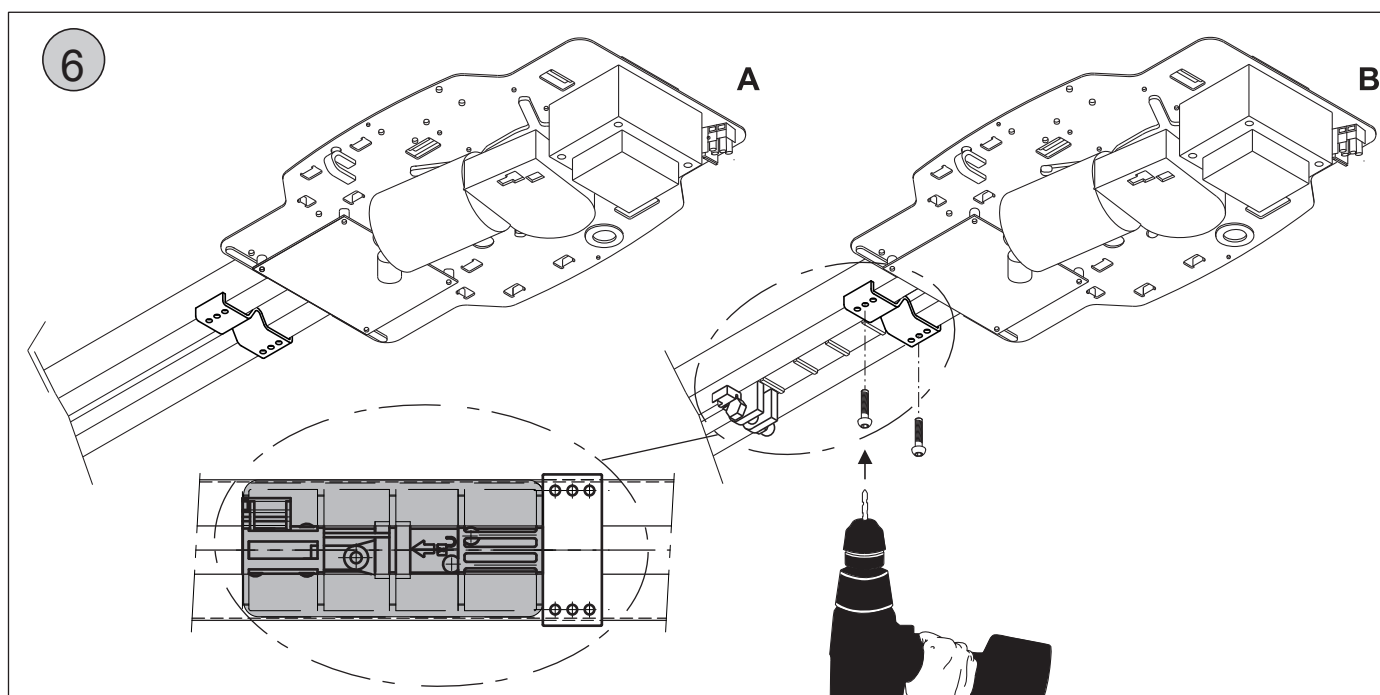
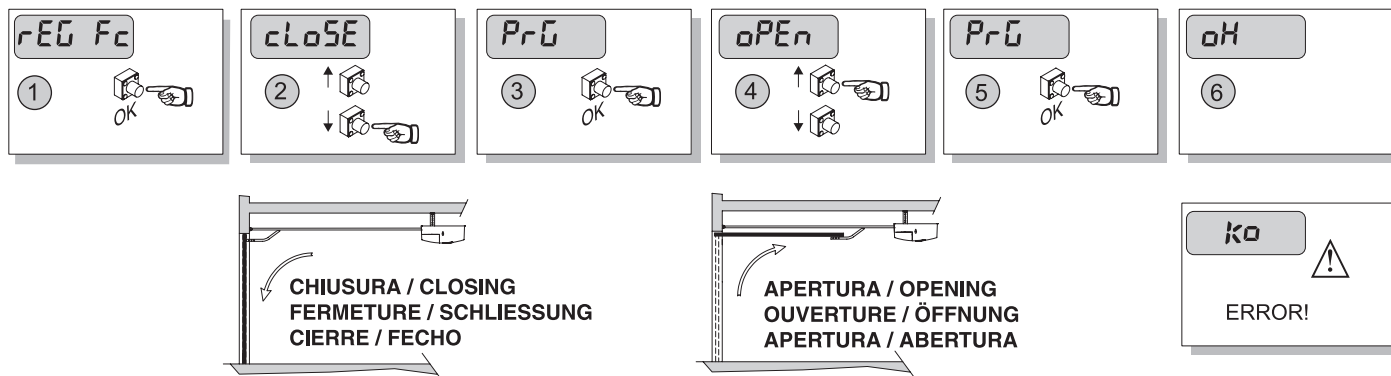


Fig. 19

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

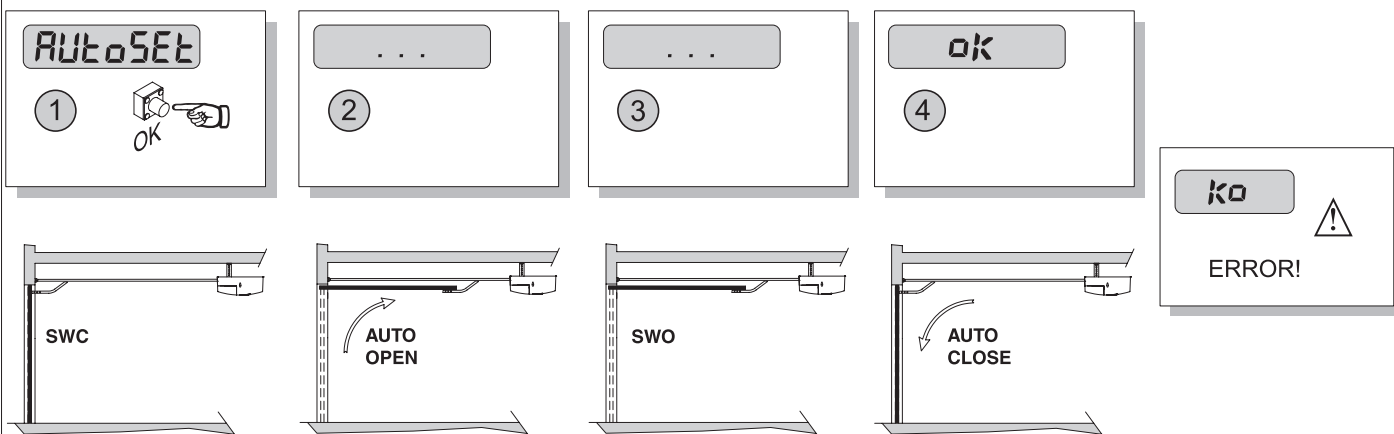


Fig. 20

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

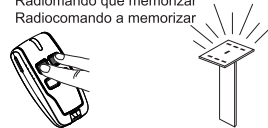
1 Radiocomando già memorizzato
Radio transmitter already memorised
Radiocommande déjà mémorisée
Bereits gespeicherte Funksteuerung
Radiomando ya memorizado
Radiocomando já memorizado



2 Radiocomando già memorizzato
Radio transmitter already memorised
Radiocommande déjà mémorisée
Bereits gespeicherte Funksteuerung
Radiomando ya memorizado
Radiocomando já memorizado



3 Radiocomando da memorizzare
Radio transmitter to memorise
Radiocommande à mémoriser
Zu speichernde Funksteuerung
Radiomando que memorizar
Radiocomando a memorizar



4 Radiocomando da memorizzare
Radio transmitter to memorise
Radiocommande à mémoriser
Zu speichernde Funksteuerung
Radiomando que memorizar
Radiocomando a memorizar



Fig. 21

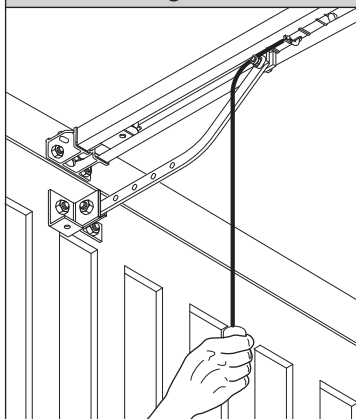


Fig. 22

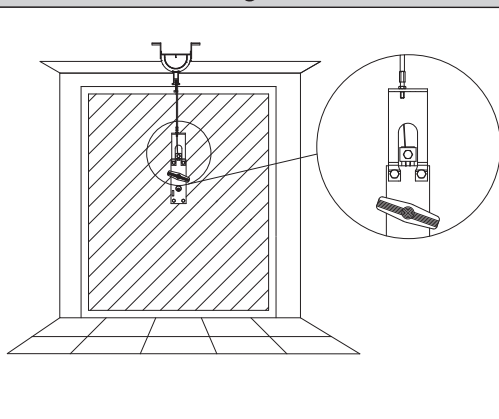


Fig. 23

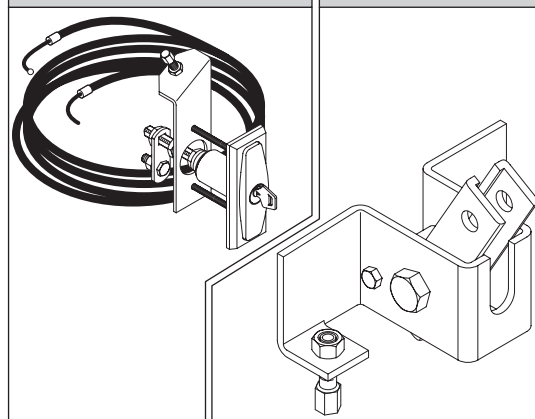
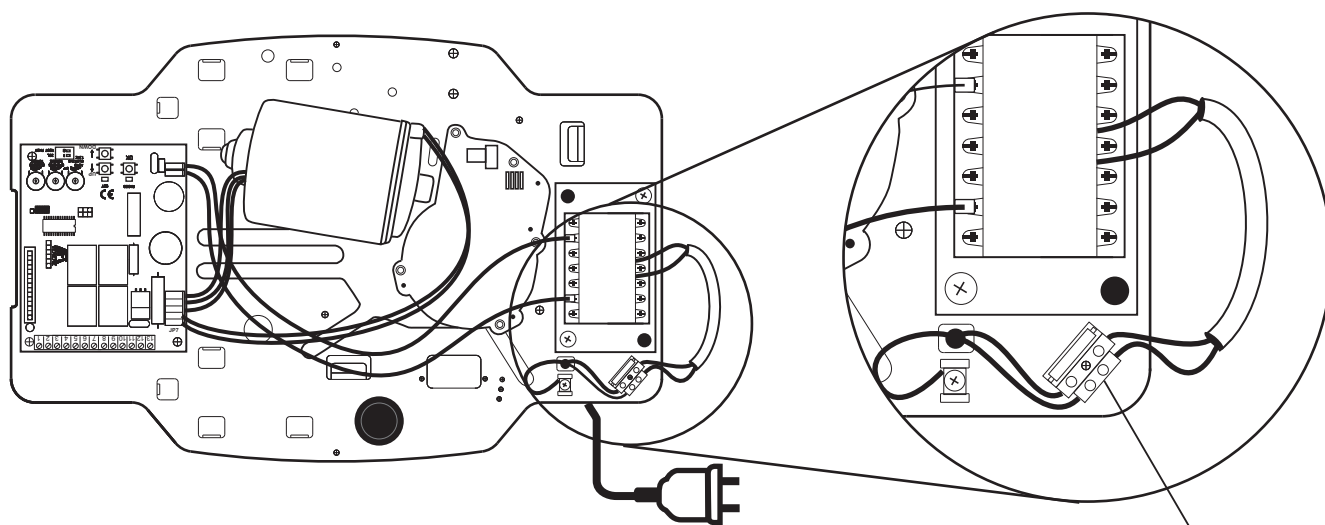


Fig. 24

Fig. 25



Fusibile, Fuse, Fusible,
Schmelzsicherung,
Fusible, Fusível:

1,25 AT

Fig. 26

Montaggio tappi per operatore EOS 1200 U - Assembly of caps for EOS 1200 U operator - Montage bouchons pour opérateur EOS 1200 U - Montage der Stopfen für Antrieb EOS 1200 U - Montaje topones para automatización EOS 1200 U - Montage doppen voor aandrijving EOS 1200 U.

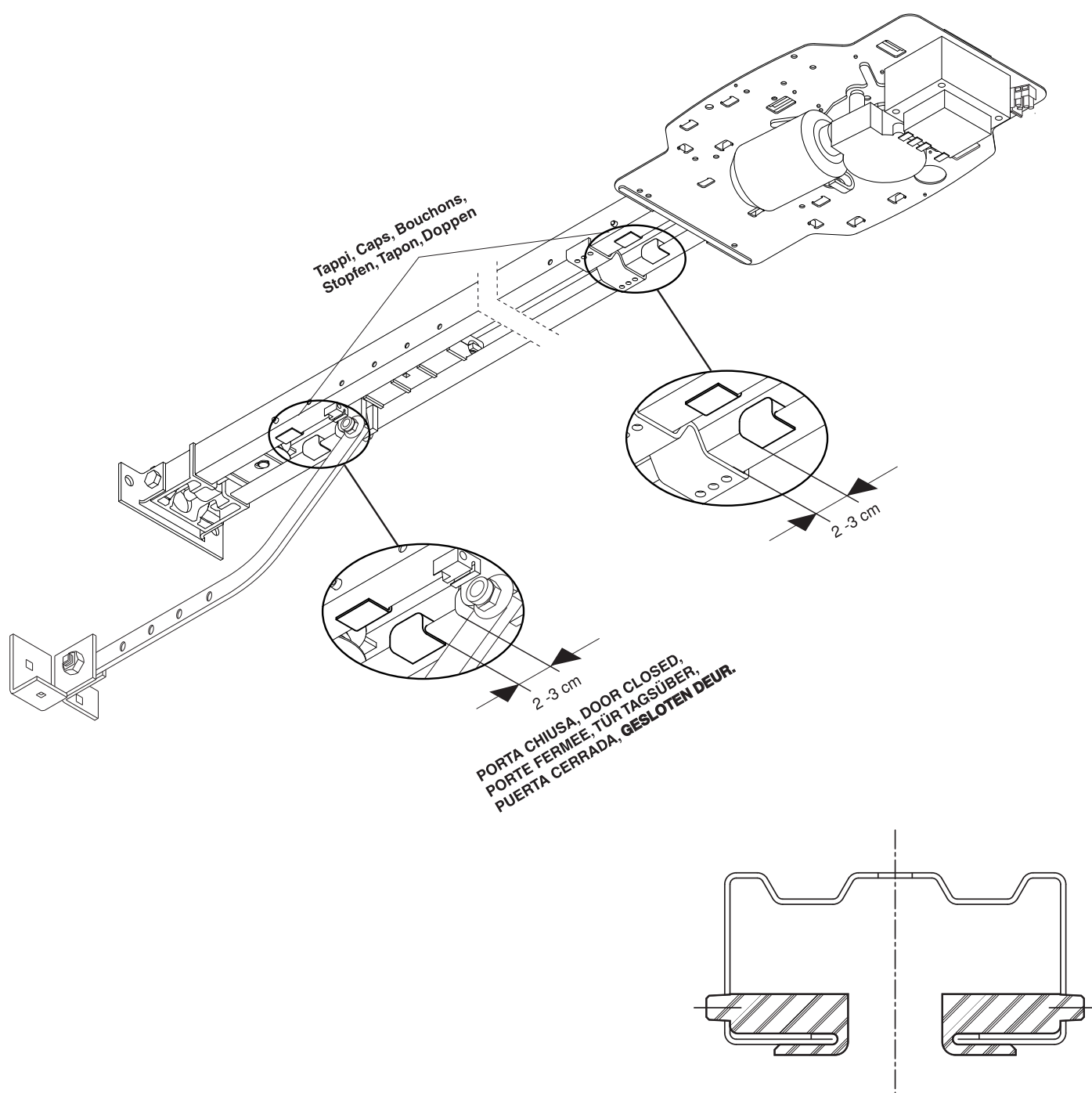
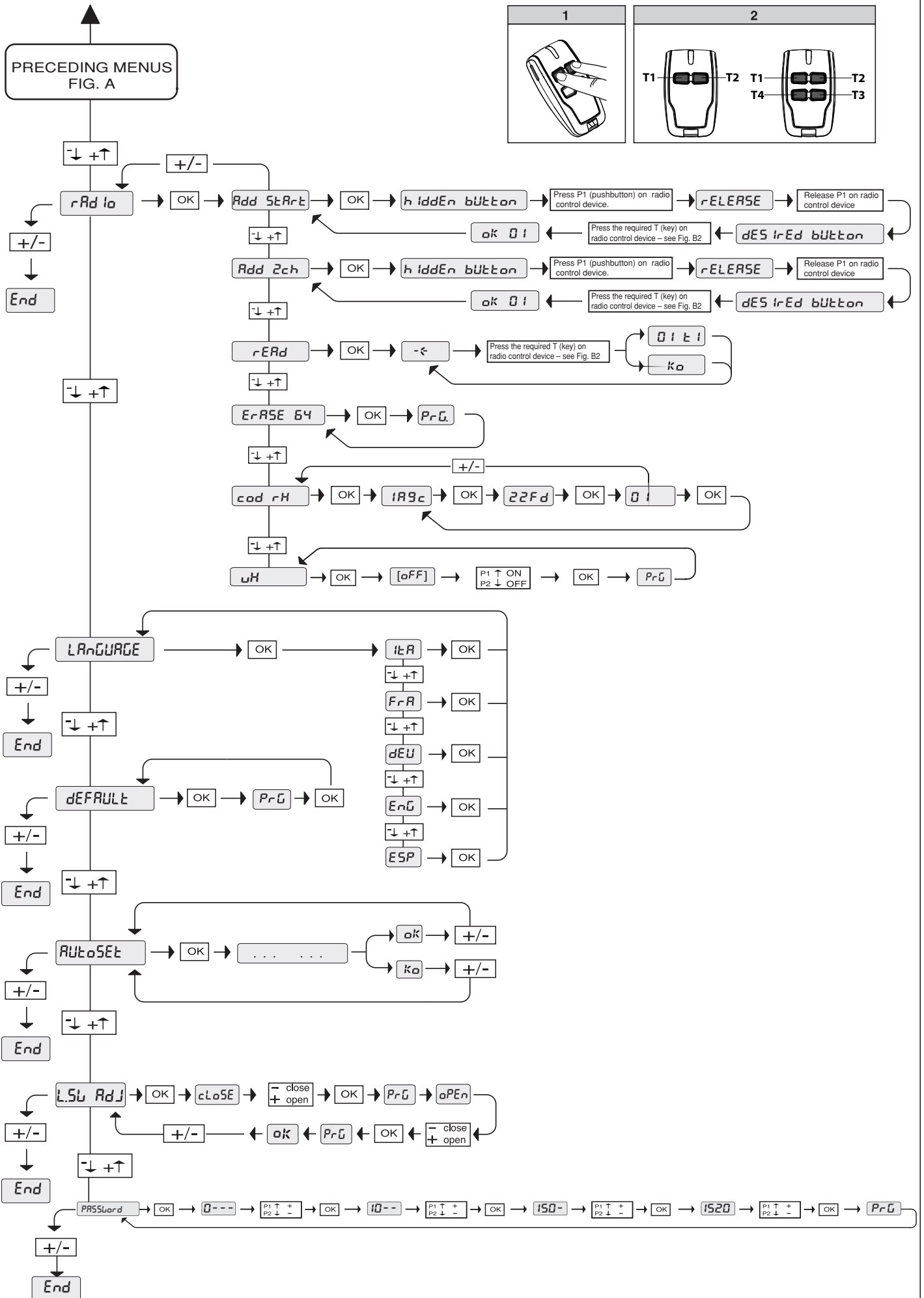




Fig. B



1) GENERAL OUTLINE

The EOS 1200 U 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.

For structures with a pedestrian door, ensure installing a safety mechanical interlock (Fig. 3A)

The supply cable provided is suitable only for indoor use.

2) TECHNICAL SPECIFICATIONS

2.1) Actuator

Power supply:.....220 - 230V~ 50/60Hz (*)
 Motor voltage:.....24V~
 Max. power absorbed from mains:.....240W
 Lubrication:.....permanent grease
 Towing and pushing force:.....1200N
 Working stroke:.....TRACK L.=2900 working stroke=2400 mm(**)
TRACK L.=3500 working stroke=3000 mm(***)
 Average speed:.....4,5 m/min
 Impact reaction:.....integrated torque limiter on control panel
 Manoeuvres in 24 hours:.....100
 Limit switch:.....Electronic with ENCODER
 Courtesy light:.....BFT model courtesy LED lamp
 Working temperature:.....-15°C / +50°C
 Degree of protection:.....IPX0
 Motor head weight:.....5 kg
 Sound pressure:.....<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.

3) ACTUATOR INSTALLATION

3.1) 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.
- The guided part must be fitted with a safety fall protection system.

3.2) 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) Fit the metal wall bracket to the track-holder bracket using the screws supplied as standard (Fig.12 Ref.E). The screws must not be tightened, so that the bracket can be rotated.
- 3) In order for the track to be correctly fixed, mark the mid-point of the door, position the BIN onto the ceiling and mark the holes (Fig.6). Make sure that the distance between the track and the door panel is comprised between 108 and 166 mm (see Fig.14). If this is not the case, use the brackets provided (Fig.10). If the distance is smaller, the towing plate must be shortened.
- 4) Drill the ceiling using a D.10 bit, with reference to the markings made previously, and insert the plugs.
- 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) Rest the motor onto the floor (taking care not to damage it) and fix the articulated bracket to the door frame or to the ceiling (Fig.9A, Fig.9B).
- 7) Lift the motor-driven head until everything rests against the ceiling and insert the fixing screws which lock the track.
- 8) In the case where the motor is not directly fixed to the ceiling, fit the brackets as shown in Fig.10 Ref.C, after marking and drilling the holes with reference to the brackets.
- 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) Check that the carriage and anchoring bracket screws provide for correct play of the towing bar.
- 12) Stick the adhesive labels supplied next to the dangerous points (Fig. 5).

4) CHAIN TIGHTENER ADJUSTMENT (EOS 1200 U)

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

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

4.1) MANUAL RELEASE (See USER GUIDE -FIG.1-).

4.2) REMPLACEMENT DE L'AMPOULE (FIG.5)

5) 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).

6) VENERE D Control panel (Fig.17)

Supply to accessories:.....24V~ (180mA max)
24V~ Vsafe VENERE D (180mA max)
 Torque limiter setting:.....on closing and opening
 Automatic closing time:.....from 1 to 180s
 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
 Fuses:.....see figure 17

6.1) 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
JP2	transformer wiring
JP10	motor wiring
1-2	Antenna input for integrated radio-receiver board (1: BRAID. 2: SIGNAL)
3-4	IC1 input (N.O.)
3-5	STOP input (N.C.) If not used, leave the jumper inserted.
3-6	SAFE1 input (N.C.) If not used, leave the jumper inserted.
3-7	FAULT 1 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.
14-15	AUX3 outupt (N.O.)/ 2nd Radio Channel
16-17	IC2 input

7) PROGRAMMING

The control panel with built-in microprocessor comes with factory settings, which are valid for standard installations. The preset parameters can only be edited using the built-in programmer with display or universal handheld programmer. If you are performing programming via a universal handheld programmer, carefully read the relevant instructions for use of the universal handheld programmer before proceeding as follows. Connect the universal handheld programmer to the control unit by means of the UNIFLAT accessory. Enter the "CONTROL UNITS" menu, then the "PARAMETERS" submenu and use the up/down arrows to run through the screens on the display, entering the numerical values of the parameters listed below.

For information on operating logics, refer to the "LOGIC" submenu.

If you are performing programming with the aid of the built-in programmer, refer to Fig. A and B and to the "setup" section.

The meaning of each parameter and the values each can be given are listed below.

7.1) Setup

Via the programmer with display, you can set all the VENERE D control panel's functions.

The programmer has three buttons for navigating between menus and setting operating parameters:

- + menu scroll/increase value key
- menu scroll/decrease value key
- OK return key (confirm).

Pressing the + and - keys at the same time allows you to exit the menu you are working inside and move to the next menu up. If the + and - keys are pressed at the same time when on the main menus (parameters-logic-radio-language-default-autoset-limit switch adjustment), you exit programming and the display switches off (the END message appears).

Changes only become operative if the OK key is pressed after they are made. The first time you press the OK key, you enter programming mode.

To start with, the display gives the following information:

- Software version of control unit
- Total number of operations carried out (the value is given in thousands, hence the display will keep showing 0000 for the first thousand operations)
- Number of operations carried out since last service (the value is given in thousands, hence the display will keep showing 0000 for the first thousand operations)
- Number of memorized remote controls.

Pressing the OK key during the initial presentation allows you to skip to the first menu (parameters-logic-radio-language-default-autoset-limit switch adjustment). The main menus are listed below along with the relevant submenus available for each. The default setting is the one inside square brackets [0]

The message that appears on the display is shown inside round brackets. Refer to Figures A and B for the control unit setup procedure.

7.2) PARAMETERS MENU (PARAMETERS TABLE "A")

7.3) LOGIC MENU (LOGIC) (LOGIC TABLE "B")

7.4) RADIO MENU (RADIO) (RADIO TABLE "C")

The Clonix built-in on-board receiver also has a number of important advanced features:

- Cloning of master transmitter (rolling code or fixed code).
- Cloning to replace transmitters already entered in receiver.
- Transmitter database management.
- Receiver community management.

To use these advanced features, refer to the universal handheld programmer's instructions and to the general receiver programming guide.

Consult sections 7/8/9 for further information on the built-in Clonix receiver's advanced features.

7.5) LANGUAGE MENU (LANGUAGE)

Used to set the programmer's language on the display.

There are 5 language options:

- ITALIAN (IT)
- FRENCH (FR)
- GERMAN (DE)
- ENGLISH (EN)
- SPANISH (ES)

7.6) DEFAULT MENU (DEFAULT)

Restores the controller's default factory settings. Following this reset, you will need to run the autoset function again.

7.7) DIAGNOSTICS AND MONITORING

The display on the **VENERE D** panel gives a certain amount of useful information both during normal operation and when faults are detected.

Diagnostics:

In the event of malfunctions, the display gives a message showing which device needs checking:

STRE	= START E input activated
STRI	= START I input activated
STOP	= STOP input activated
PHOT	= PHOT input activated
SWO	= OPENING LIMIT SWITCH input activated
SWC	= CLOSING LIMIT SWITCH input activated
PED	= PEDESTRIAN input activated
OPEN	= OPEN input activated
CLS	= CLOSE input activated

In the event the door encounters an obstacle, the **VENERE D** panel stops the door and commands it to reverse, while on the display the "AMP" message appears

Monitoring:

During opening and closing, the display shows four numbers separated by a decimal point, e.g. 35.40. The numbers are updated constantly during the door's operation and stand for the instantaneous torque reached by motor 1 (35) and torque threshold (opening, closing, slow-down) set in the parameters menu (40). Via these values, we can correct the torque setting.

If the value of the instantaneous torque reached during the door's operation gets rather close to the threshold value set in the parameters menu, malfunctioning may occur in the future due to wear or the door becoming slightly misshapen. Consequently, it is advisable to check the maximum torque reached during a number of cycles at the installation stage and, where necessary, set a value approx. 5/10 percentage points higher in the parameters menu.

7.8) ERROR DIAGNOSTICS:

ER01	Error in safety device (photocell) test
ER03	Error in safety device (photocells active only on opening) test
ER04	Error in safety device (photocells active only on closing) test
ER10	Problems detected in motor's control circuit
ER11	Problems detected in motor's current reading circuit

7.9) AUTOSSET MENU

- Move the door to the closed position
 - Launch an autoset operation by going to the relevant menu on the **VENERE D** panel (Fig.B).
 - As soon as you press the OK button, the "....." message is displayed and the control unit commands the door to perform a full cycle (opening followed by closing), during which the minimum torque value required for the door to move is set automatically.
- During this stage, it is important to avoid breaking the photocells' beams and not to use the START and STOP commands or the display.
- Once this operation is complete, the control unit will have automatically set the optimum torque values. Check them and, where necessary, edit them as described in the programming section.

WARNING: Check that the force of impact measured at the points provided for by standard EN 12445 is lower than the value laid down by standard EN 12453.

Warning!! While the autoset function is running, the obstacle detection function is not active. Consequently, the installer must

7.10) LIMIT SWITCH ADJUSTMENT MENU

The **VENERE D** control panel has an opening and closing limit switch adjustment menu, which simplifies the installation procedure. Refer to Figures 18/19 and Fig.B illustrating the control panel's programming and proceed as follows:

- Launch a limit switch adjustment operation by going to the relevant menu on the **VENERE D** panel (Fig.B).
- When the "CLOSE" message is displayed, move the door to the desired closed position using the "UP" and "DOWN" buttons on the control unit, bearing in

mind that the "DOWN" button closes the door, while the "UP" button opens the door. As soon as the door is in the desired closed position, press the "OK" button to store the closed travel limit position.

- When the "OPEN" message is displayed, move the door to the desired open position using the "UP" and "DOWN" buttons on the control unit, bearing in mind that the "DOWN" button closes the door, while the "UP" button opens the door.

As soon as the door is in the desired open position, press the "OK" button to store the open travel limit position.

- Position the "runner stop" correctly up against the runner and secure in place with the screws (fig.18 ref.6 A-B).

NOTE: These operations must be performed in "deadman" mode at reduced speed and without the safety devices operating.

7.11) STATISTICS

Connect the UNIVERSAL HANDHELD programmer to the control unit, enter the CONTROL UNIT/STATISTICS menu and run through the statistics parameters screen:

- Software version of card microprocessor.
- Number of cycles performed. If the motors are replaced, write down the number of operations performed so far.
- Number of cycles performed since last service. Automatically reset every time self-diagnosis is run or parameters are written.
- Date of last service. Must be updated manually via the relevant "Update service date" menu
- System description. Allows for 16 characters to be entered to identify the system.

7.12) PASSWORD MENU (PASSWORD)

Used to set a password for the board's wireless programming via the U-link network. With "PROTECTION LEVEL" logic set to 1,2,3,4, the password is required to access the programming menus. After 10 consecutive failed attempts to log in, you will need to wait 3 minutes before trying again. During this time, whenever an attempt is made to log in, the display will read "BLOC". The default password is 1234.

7.13) U-LINK OPTIONAL MODULES

Refer to the U-link instructions for the modules.

8) TECHNICAL DATA OF BUILT-IN RECEIVER

Receiver's output channels:

- output channel 1, if activated, commands the door to START
- output channel 2, if activated, commands the 2nd radio channel relay to energize for 1 sec..

Usable transmitter versions:

ALL ROLLING CODE transmitters compatible with  **((ER-Ready))**

8.1) INSTALLING THE ANTENNA

Use an antenna tuned to 433MHz.

Use RG58 coax cable to connect the Antenna and Receiver.

Metal bodies close to the antenna can interfere with radio reception. If the transmitter's range is limited, move the antenna to a more suitable position.

8.2) MANUAL TRANSMITTER PROGRAMMING

In the case of standard installations in which advanced features are not required, transmitters can be memorized manually, referring to Fig.B for the basic programming.

- If you want the transmitter to activate output 1 (START) with key 1 or key 2 or key 3 or key 4, enter the transmitter in the start key menu as illustrated in Fig.B.
- If you want the transmitter to activate output 2 (2nd radio channel relay) with key 1 or key 2 or key 3 or key 4, enter the transmitter in the 2ch key menu as illustrated in Fig.B.

Note: The hidden key P1 changes appearance depending on the transmitter model. For transmitters featuring a hidden key, press the hidden button P1 (Fig.B1).

For transmitters with no hidden key, simultaneously pressing the transmitter's 4 keys, or opening the battery compartment and using a screwdriver to jump the two P1 points (Fig.B2), is equivalent to pressing key P1.

IMPORTANT NOTE: THE FIRST TRANSMITTER MEMORIZED MUST BE IDENTIFIED BY ATTACHING THE KEY LABEL (MASTER).

In the event of manual programming, the first transmitter assigns the RECEIVER'S KEY CODE: this code is required to subsequently clone the radio transmitters.

8.3) REMOTE TRANSMITTER PROGRAMMING (Fig.20)

- 1) Press the hidden key (P1) of a transmitter that has already been memorized in standard mode via manual programming.
- 2) Press the normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via manual programming.
- 3) The courtesy light flashes. Press within 10 sec. the hidden key (P1) of a transmitter to be memorized.
- 4) The courtesy light remains steadily lit. Press the normal key (T1-T2-T3-T4) of a transmitter to be memorized.

The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters.

This mode does not require access to the control panel.

9) EMERGENCY MANOEUVRE

In case of electric power failure or system malfunction, the manoeuvre must be carried out manually by pulling the wire connected to the carriage, as in fig.21. For garages which are not provided with a second exit, it is compulsory to fit an external key release device like Mod. **SM1** (fig.22) or Mod. **SET/S** (fig.23).

10) AUTOMATION CHECK

 Before the automation device finally becomes operational, scrupulously check the following conditions:

- Check that all the safety devices (limit microswitches, photocells, electric edges etc) operate correctly.
- Check that the door (antisquash) thrust is comprised within the limits set out by the current standards, and anyway not too strong for the installation and operating conditions.
- Check that the chain-tightening spring element is not completely compressed

- during the manoeuvre.
- Check the manual opening control operation.
- Check the opening and closing operations using the control devices fitted.
- Check the normal and customised operation electronic logics.

11) AUTOMATION DEVICE USE

- Since the automation device can be remotely controlled by means of a radio control device or a Start button, and therefore when not in sight, all the safety devices must be frequently checked in order to ensure their perfect efficiency. In the event of any malfunction, request immediate assistance from qualified personnel. Children must be kept at a safe distance from the automation operation area.
- Partial or pedestrian opening is to be treated as an operation to be performed only occasionally and no more than 5 such operations should be performed in a row if the automated system is to work properly.

12) AUTOMATION CONTROL

The use of this control device allows the gate to be opened and closed automatically. There are different types of controls (manual, radio control, magnetic card access etc.) depending on the installation requirements and characteristics. For the various control systems, see the relevant instructions. The automation device users must be instructed on control and operation.

13) ACCESSORIES

- SM1** External release device to be applied to the cremone bolt already fitted to the overhead door (**fig.22**).
- SET/S** External release device with retracting handle for sectional doors measuring max 50mm (**fig.23**).
- ST** Automatic bolt release device for spring-operated overhead doors. Fitted to the control arm, it automatically releases the side door bolts (**fig.24**).

14) MAINTENANCE

Before carrying out any maintenance operation, disconnect the system power supply.

- Periodically check the tension of the chain/belt (twice a year).
- Occasionally clean the photocell optical elements, if installed.
- Have a qualified technician (installer) check the correct setting of the electronic clutch.
- When any operational malfunction is found, and not resolved, disconnect the system power supply and request the assistance of a qualified technician (installer). When the product is out of service, activate the manual release device to allow the door to be opened and closed manually.

 If the power supply cable is damaged, it must be replaced directly by our company or our technical service department or by a technician having similar qualification so as to avoid any risks.

14.1) FUSE REPLACEMENT (Fig.25)

WARNING! Disconnect the mains voltage.

Remove the rubber protection from the fuse-carrier. Remove the fuse (Fig.25, Ref.A) to be replaced and replace it with a new one. After completing this operation, re-fit the rubber protection.

TABLE "A" - PARAMETERS MENU - (PR-RF)

Parameter	min.	max.	Default	Personal	Definition	Description
t c R	1	180	40		Automatic closing time [s]	Waiting time before automatic closing.
c L d i s t. S l o w d	7	100	7		Slow-down distance [cm]	Motor slow-down distance during opening and closing, expressed in cm WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
P R t i R L o P E n	00,1	06,0	01,0		Partial opening [m]	Partial opening distance following activation of PED pedestrian command. Set the numerical value of partial opening in the range 10 cm (00,1) to 6 m (06,0)
a P F o r c e	1	99	75		Leaf force during opening [%]	Force exerted by leaf during opening. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function.  WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary (**).
c L S F o r c e	1	99	75		Leaf force during closing [%]	Force exerted by leaf during closing. This is the percentage of force delivered, beyond the force stored during the autoset cycle (and subsequently updated), before an obstacle alarm is generated. The parameter is set automatically by the autoset function.  WARNING: It affects impact force directly: make sure that current safety requirements are met with the set value (*). Install anti-crush safety devices where necessary (**).
a P S P E E d	40	99	99		Opening speed [%]	Percentage of maximum speed that can be reached by motor during opening. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.
c L S P E E d	40	99	99		Closing speed [%]	Percentage of maximum speed that can be reached by motor during closing. WARNING: Once the parameter has been edited, a complete uninterrupted opening-closing cycle is required. WARNING: when the display reads "SET", obstacle detection is not active.

(*) In the European Union, apply standard EN 12453 for force limitations, and standard EN 12445 for measuring method.

(**) Impact forces can be reduced by using deformable edges.

TABLE "B" - LOGIC MENU - (LoG ic)

Logic	Definition	De- fault	Cross out setting used	Optional extras	
LoG	Automatic Clo- sing Time	0	0	Logic not enabled	
			1	Switches automatic closing on	
STEP-by-STEP POUPEnt	Step-by-step movement	0	0	Inputs configured as Start E, Start I, Ped operate with 4-step logic.	
			1	Inputs configured as Start E, Start I, Ped op- erate with 3-step logic. Pulse during closing reverses movement.	
			step-by-step mov.		
				3 STEP	4 STEP
			CLOSED	OPENS	OPENS
			DURING CLOSING		STOPS
			OPEN	CLOSES	CLOSES
			DURING OPENING	STOP + TCA	STOP + TCA
AFTER STOP	OPENS	OPENS			
PRE-ALARm	Pre-alarm	0	0	The flashing light comes on at the same time as the motor(s) start.	
			1	The flashing light comes on approx. 3 seconds before the motor(s) start.	
IBL oPEnt	Block pulses during opening	0	0	Pulse from inputs configured as Start E, Start I, Ped has effect during opening.	
			1	Pulse from inputs configured as Start E, Start I, Ped has no effect during opening.	
SAFE 1	Configuration of safety input SAFE 1.	0	0	Input configured as Phot (photocell).	
			1	Input configured as Phot test (tested photocell).	
			2	Input configured as Phot op (photocell active during opening only).	
			3	Input configured as Phot op test (tested photocell active during opening only).	
			4	Input configured as Phot cl (photocell active during closing only).	
			5	Input configured as Phot cl test (tested photocell active during closing only).	
AUX 3	Configuration of AUX 3 output.	0	0	Output configured as 2nd Radio Channel.	
			1	Output configured as SCA (gate open light). In this case, the 2nd radio channel controls partial opening.	
FIXEd code	Fixed code	0	0	Receiver is configured for operation in rolling-code mode. Fixed-Code Clones are not accepted.	
			1	Receiver is configured for operation in fixed-code mode. Fixed-Code Clones are accepted.	
ProLEu	Setting the protection level	0	0	A - The password is not required to access the programming menus B - Enables wireless memorizing of transmitters. Operations in this mode are carried out near the control panel and do not require access: - Press in sequence the hidden key and normal key (T1-T2-T3-T4) of a transmitter that has already been memorized in standard mode via the radio menu. - Press within 10 sec. the hidden key and normal key (T1-T2-T3-T4) of a transmitter to be memorized. The receiver exits programming mode after 10 sec.: you can use this time to enter other new transmitters by repeating the previous step. C - Enables wireless automatic addition of clones. Enables clones generated with the universal programmer and programmed Replays to be added to the receiver's memory. D - Enables wireless automatic addition of replays. Enables programmed Replays to be added to the receiver's memory. E - The board's parameters can be edited via the U-link network	
			1	A - You are prompted to enter the password to access the programming menus The default password is 1234. No change in behaviour of functions B - C - D - E from 0 logic setting	
			2	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. No change in behaviour of functions D - E from 0 logic setting	
			3	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. D - Wireless automatic addition of Replays is disabled. No change in behaviour of functions C - E from 0 logic setting	
			4	A - You are prompted to enter the password to access the programming menus The default password is 1234. B - Wireless memorizing of transmitters is disabled. C - Wireless automatic addition of clones is disabled. D - Wireless automatic addition of Replays is disabled. E - The option of editing the board's parameters via the U-link network is disabled. Transmitters are memorized only using the relevant Radio menu. IMPORTANT: This high level of security stops unwanted clones from gaining access and also stops radio interference, if any.	

INSTALLATION MANUAL

Logic	Definition	De-fault	Cross out setting used	Optional extras
<i>SERIAL MODE</i>	Serial mode (Identifies how board is configured in a BFT network connection).	0	0	Standard SLAVE: board receives and communicates commands/diagnostics/etc.
			1	Standard MASTER: board sends activation commands (START, OPEN, CLOSE, PED, STOP) to other boards.
<i>ADDRESS</i>	Address	0	[____]	Identifies board address from 0 to 119 in a local BFT network connection. (see U-LINK OPTIONAL MODULES section)
<i>IC 1</i>	Configuration of command input IC 1.	0	0	Input configured as Start E.
			1	Input configured as Start I.
			2	Input configured as Open.
<i>IC 2</i>	Configuration of command input IC 2.	4	3	Input configured as Close.
			4	Input configured as Ped.
<i>SUBOU</i>	Movement to limit switch	1	0	Logic not enabled
			1	Enables movement reversal when it stops at the travel limit

TABLE "C" – RADIO MENU (*radio*)

Logic	Description
<i>Add Start</i>	Add Start Key associates the desired key with the Start command
<i>Add 2ch</i>	Add 2ch Key Associates the desired key with the 2nd radio channel command. If no output is configured as 2nd Radio Channel Output, the 2nd radio channel controls the pedestrian opening.
<i>ERASE 64</i>	Erase List  WARNING! Erases all memorized transmitters from the receiver's memory.
<i>read</i>	Read Checks a key of a receiver and, if memorized, returns the number of the receiver in the memory location (from 01 to 64) and number of the key (T1-T2-T3 or T4).
<i>code rH</i>	Read receiver code Displays receiver code required for cloning transmitters.
<i>Wk</i>	ON = Enables remote programming of cards via a previously memorized W LINK transmitter. It remains enabled for 3 minutes from the time the W LINK transmitter is last pressed. OFF = W LINK programming disabled.

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