



SEA®
Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 904888

CORONA S/RP

FITTING AND CONNECTION INSTRUCTIONS

CE

ENGLISH

Corona S is a non quick grafting operator with aluminium guide.
Corona RP is a quick grafting operator with steel guide.
Corona S/RP is a ceiling actuator **easy to install** and noiseless thanks to the **slowdown** in the last phases of opening and closing. It is provided with an electronic speed control which allows the mechanical parts subjected to stress to be saved.

The anticrushing safety is assured by an electronic system which, set during installation, stops the door in opening and reverses during closing phase.

Corona S/RP **irreversibility** avoids the use of electro-locks while guaranteeing maximum security during forcing attempts.

A **Manual Release** ensures door operation also in case of power failure.

OPERATORS FOR SECTIONAL GARAGE DOORS

MAX DOOR
DIMENSIONS

up to 2,4 H x 3,5 L m

CORONA 60

up to 2,4 H x 5 L m

CORONA 110

OPERATORS FOR BALANCED OVERHEAD DOORS WITH SPRINGS

MAX DOOR
DIMENSIONS

up to 2,3 H x 3 L m

CORONA 60

up to 2,3 H x 4 L m

CORONA 110

OPERATORS FOR COUNTERBALANCED OVERHEAD DOORS

MAX DOOR
DIMENSIONS

up to 2,7 H x 3 L m

CORONA 60

up to 2,7 H x 4 L m

CORONA 110

DIMENSIONS (mm)

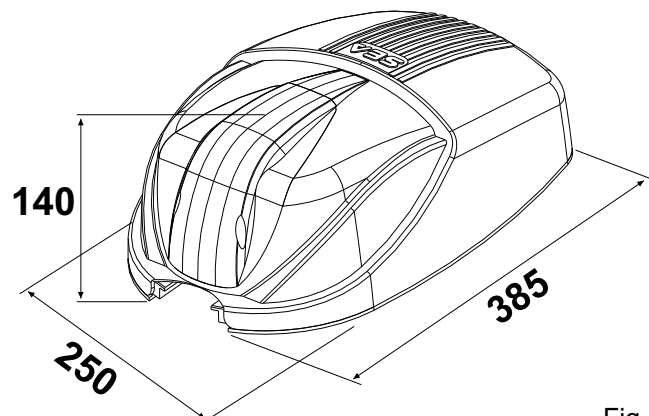


Fig. 1

TECHNICAL DATA	CORONA 60	CORONA 110	CORONA 60 110V	CORONA 110 110V
Power Supply	230 V (±5%) 50/60 H		110 V (±5%) 50/60 H	
Motor Supply	24 V ---			
Power	140 W	370W	140 W	370W
Opening Speed	adjustable			
Frequency of use	60%	40%	60%	40%
Operating temperature	-20°C↕ + 60°C↕			
Weight	13 kg	14 kg	13 kg	14 kg
Max Pushing (N)	600	1100	600	1100
Max Traction (N)	600	1100	600	1100
Protection degree	IP 20			
Anticrushing clutch	electronic			
Limit switch	Micro switch			

Note: The frequency of use is valid only for the first hour at an outside temperature of 20°C.

MAIN PARTS OF THE CORONA S OPERATOR

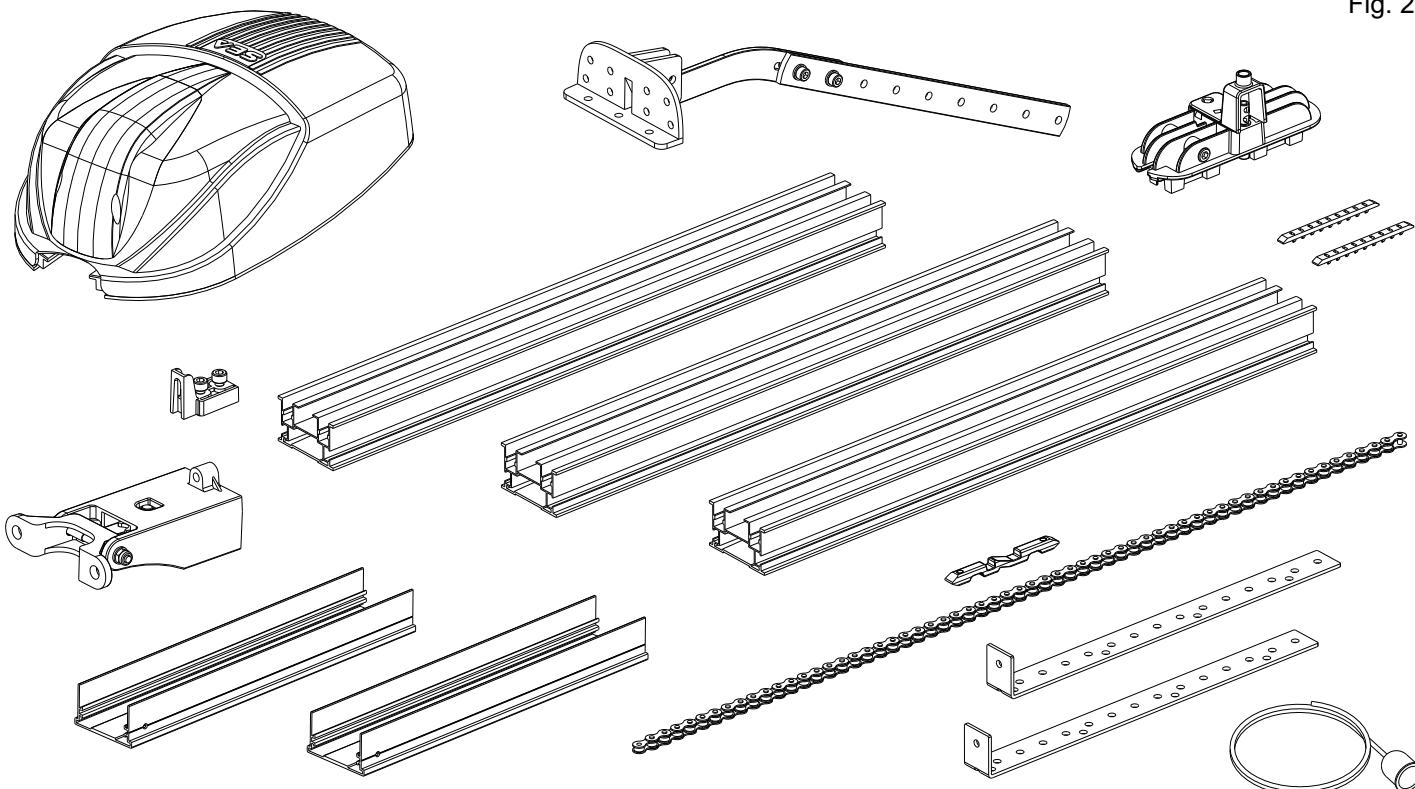
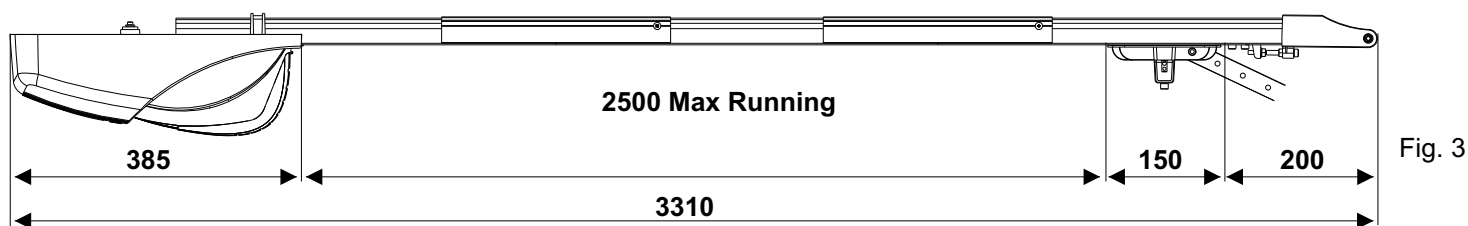


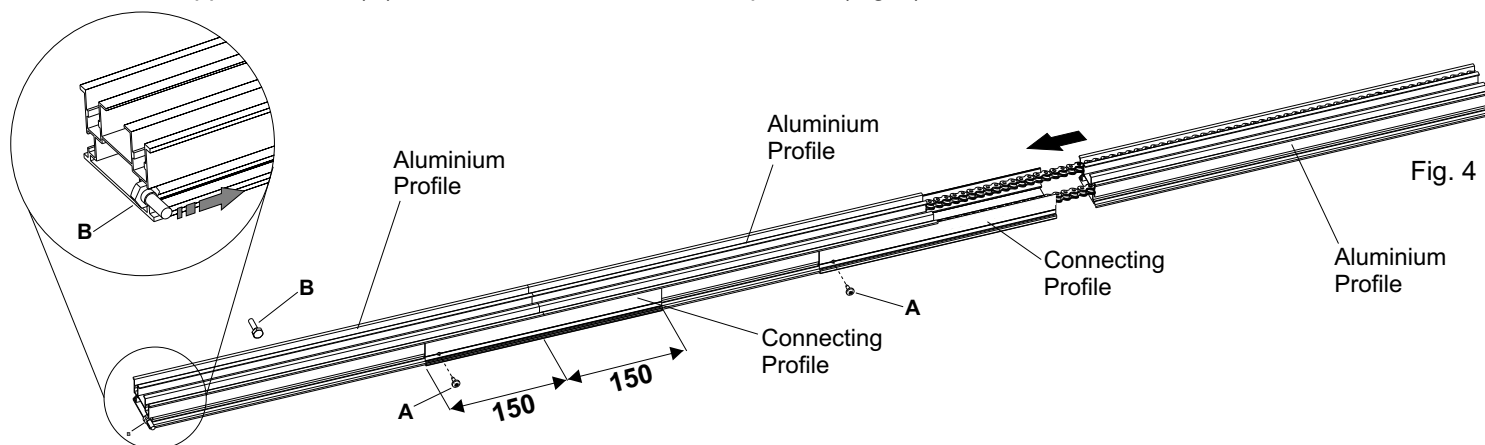
Fig. 2



Before installing, make sure that the door is perfectly working and that the guide is free of obstacles.

1. CORONA S INSTALLATION

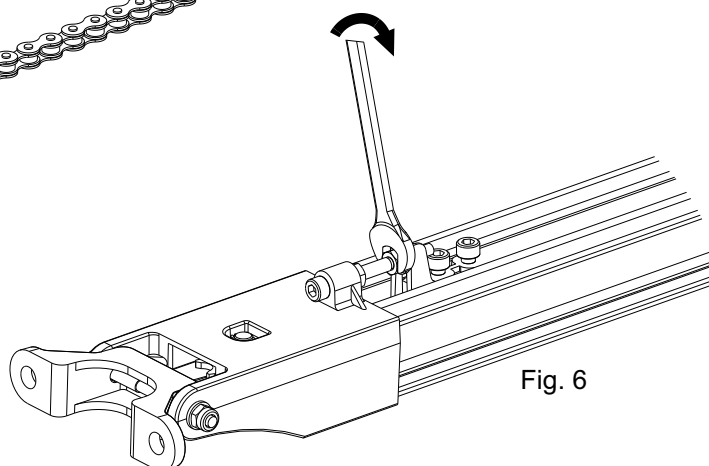
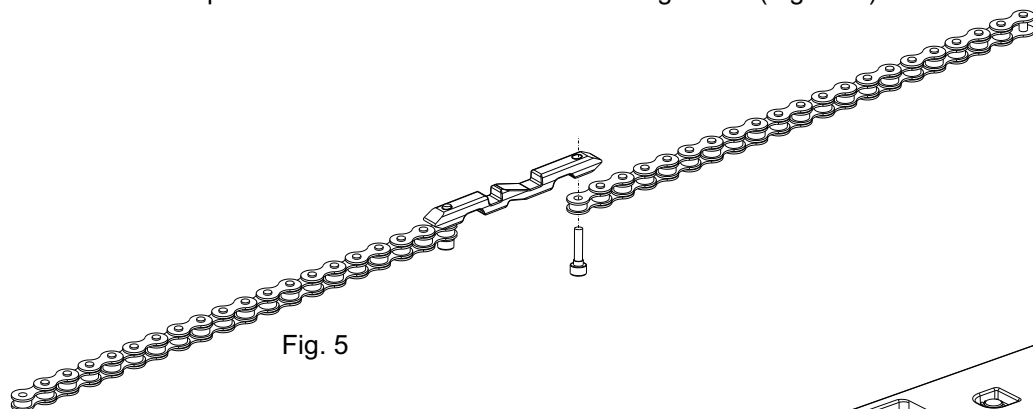
- Connect the aluminium profiles using the two connecting profiles.
- Insert the connecting profile into the aluminium profile for half its length (150 mm) and fix it with the **A** screw. (Fig. 4)
- Repeat for the other two aluminium profiles.
- Insert the two supplied screws (**B**) into the holes of the aluminium profiles (Fig. 4)



Note: In Fig.4 a pair of screws are inserted into the loopholes which will be used for fixing the Corona S operator to the ceiling with the special brackets (See also Fig. 7).

- Connect the two ends of the chain using the connecting link and the two provided screws (Fig. 5).
- Make sure that the chain has been correctly mounted on the pinion of the Corona S body (Fig. 7 - A).
- Place the guide on the stop of the Corona S body and fix it with the special bracket (Fig. 7 - B).
- Mount the front fixation support on the other end of the guide (Fig. 7 - C)
- Slightly tighten the chain with a 10 key (Fig.6)

IMPORTANT: Keep well lubricated the chain and the sliding device (Fig. 7 - D).



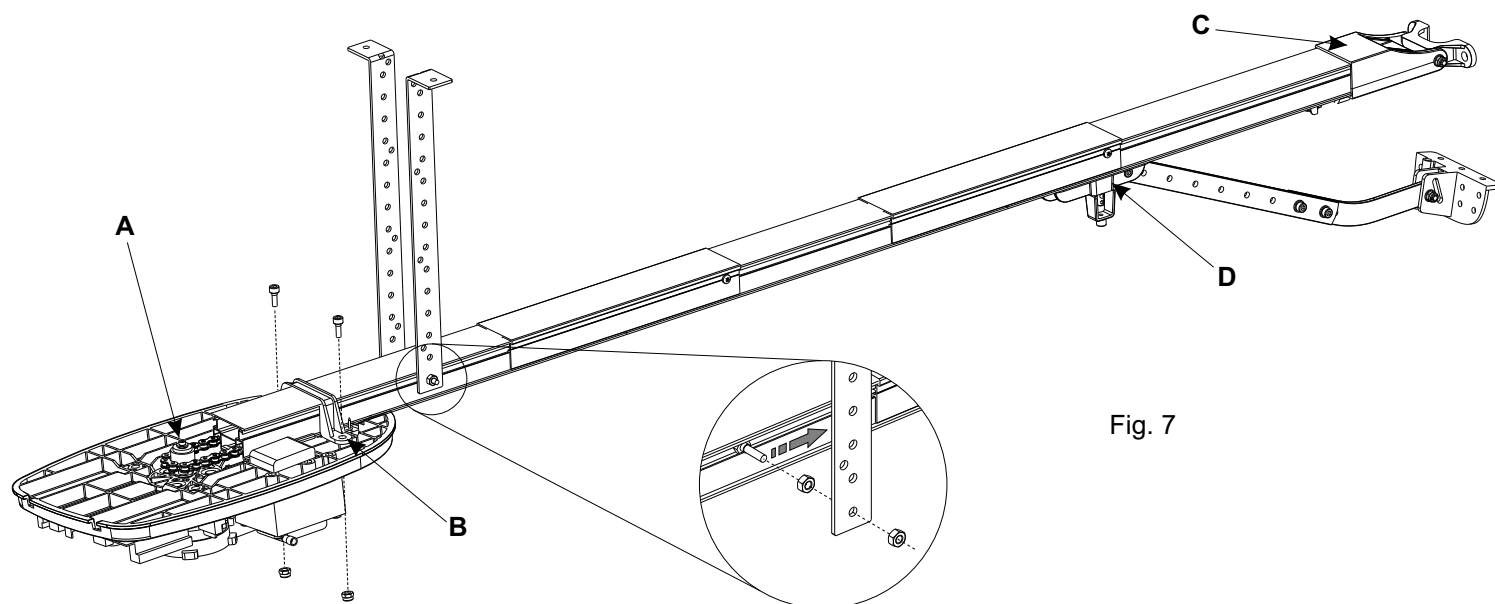


Fig. 7

2. CORONA S FIXING

- First of all fix the front part of the Corona S making sure that it's placed at the centre of the door;

- Fix the anchor bracket to the door frame or if necessary on the wall using rivets or bolts (Fig. 8);

- Lift the Corona S and fix it to the ceiling with the special brackets keeping a maximum distance of 400 mm from the ceiling and making sure that the operator is in a perfectly horizontal position (Fig. 9);

- Release the Corona S operator and drag the drawing rod towards the door, then fix it to the door.

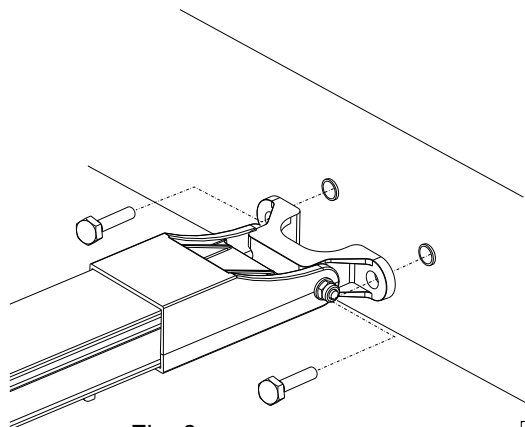


Fig. 8

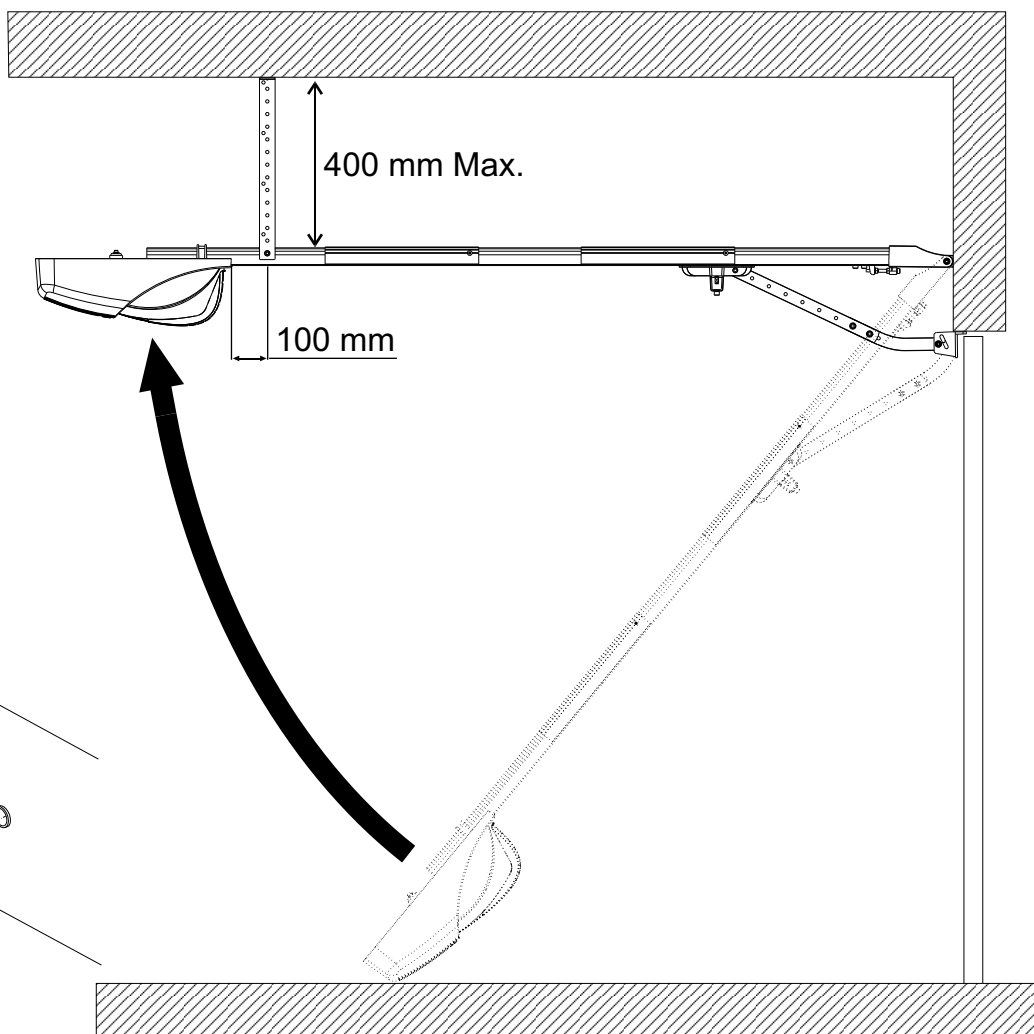


Fig. 9



3. INSTALLATION KIT FOR GARAGE DOORS

OPERATORS FOR BALANCED OVERHEAD DOORS WITH SPRINGS

MAX DOOR
DIMENSIONS

up to 2,3 H x 3 L m

CORONA 60

up to 2,3 H x 4 L m

CORONA 110

OPERATORS FOR COUNTERBALANCED OVERHEAD DOORS

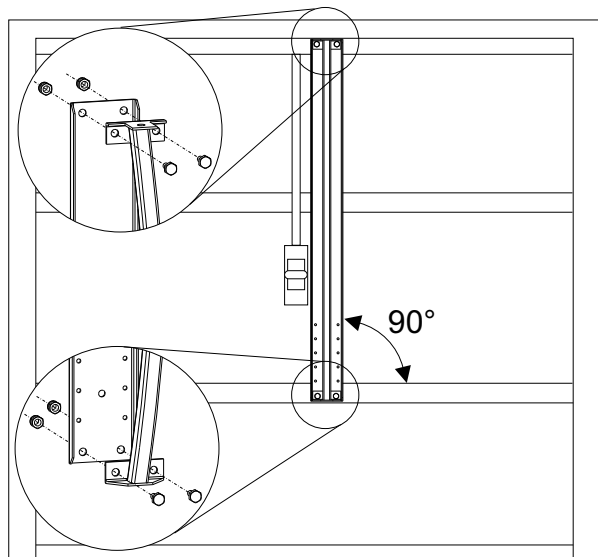
MAX DOOR
DIMENSIONS

up to 2,7 H x 3 L m

CORONA 60

up to 2,7 H x 4 L m

CORONA 110



We recommend to use additional brackets (optional)

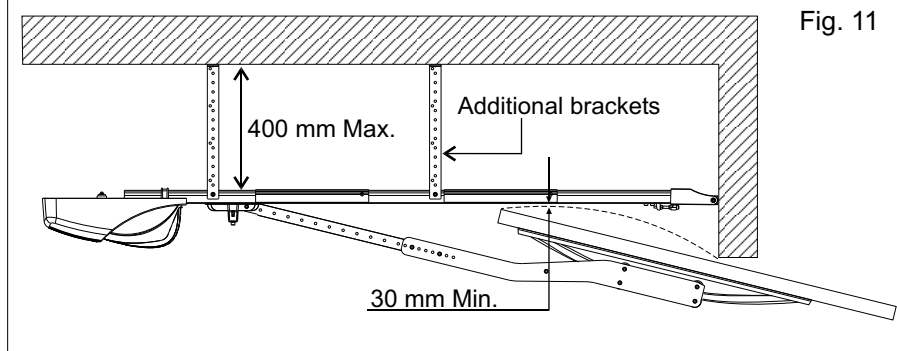


Fig. 10

Fig. 11

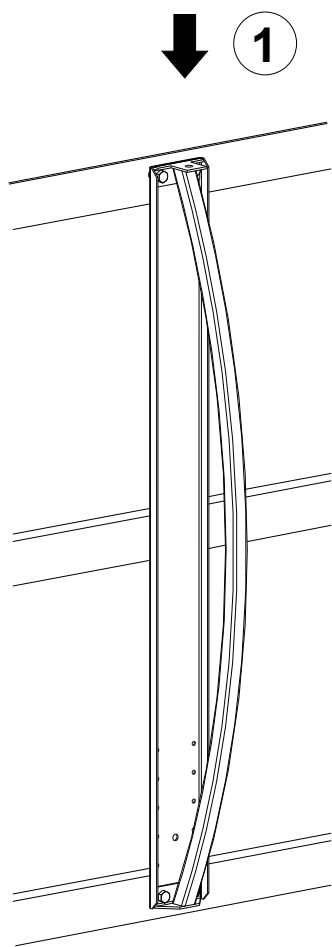


Fig. 12

2

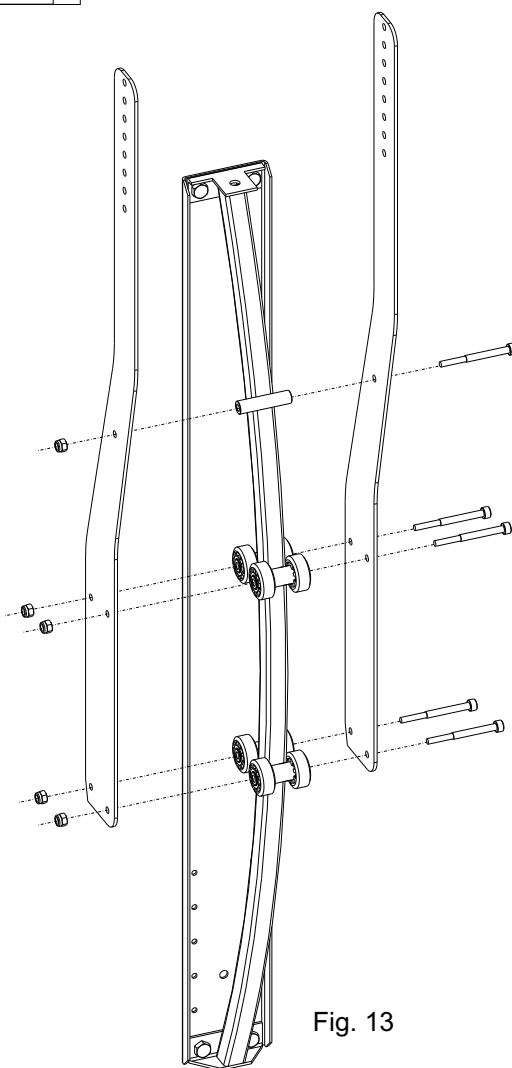


Fig. 13

3

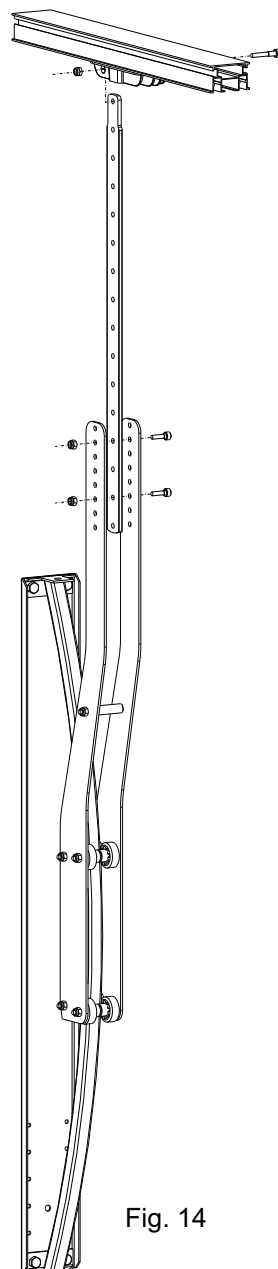


Fig. 14



To adjust the door closing as precise as possible, release the bolts on the curved rod and adjust the run on the two holes (Fig. 15)

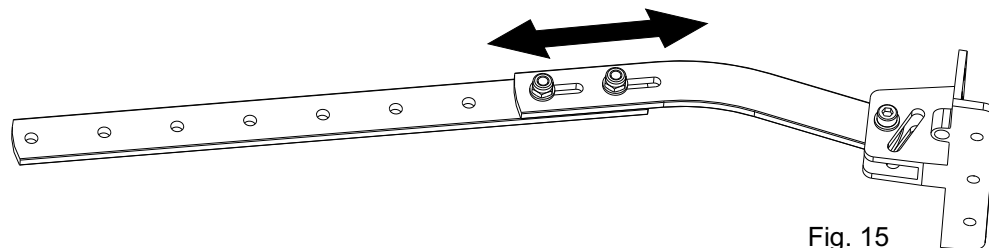
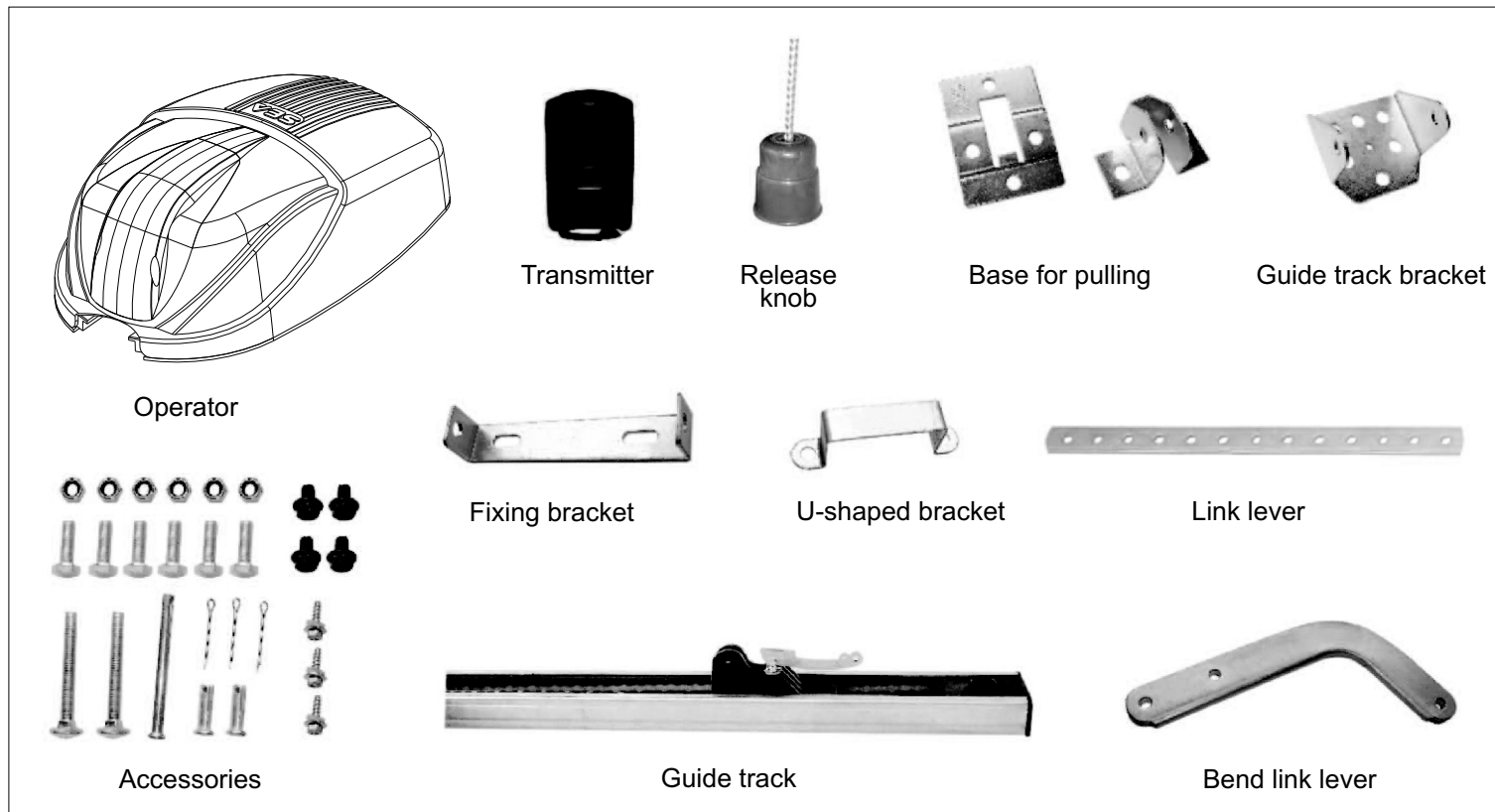


Fig. 15

MAIN PARTS OF THE AUTOMATION CORONA RP



On request one 4m piece guide

CONNECTION OF THE OPERATOR CORONA RP WITH THE GUIDE TRACK

Before installing the operator remove all unnecessary ropes or chain and disable any equipment, such as locks, not needed for powdered operation.

Before installing the operator, check that the door is in good mechanical condition correctly balanced and opens and closes properly.

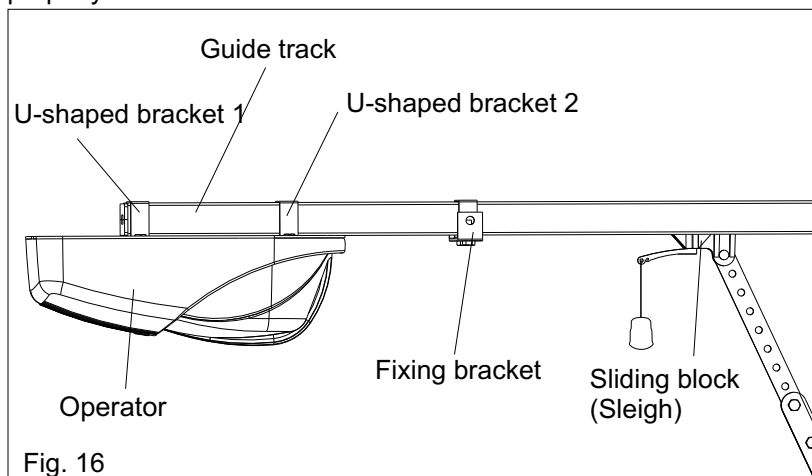


Fig. 16

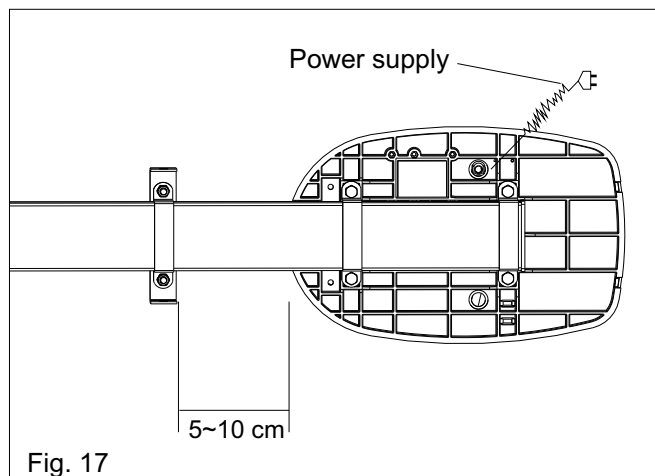


Fig. 17

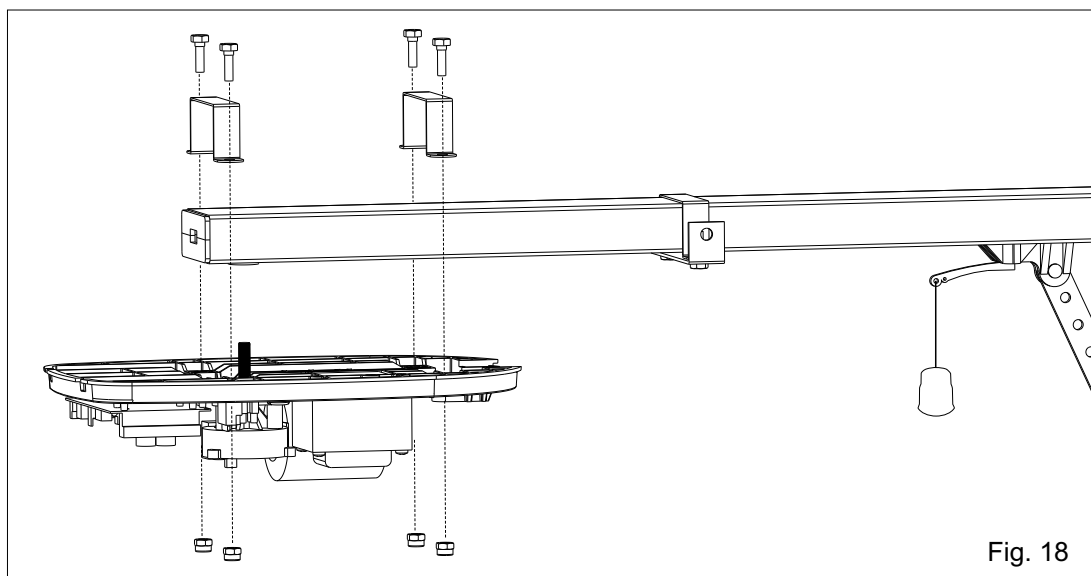


Fig. 18

5. INSTALLATION OF THE GUIDE ON THE WALL AND ON THE CEILING FOR CORONA RP

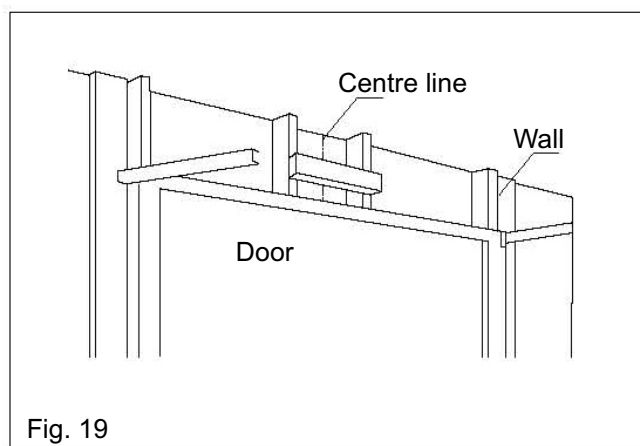


Fig. 19

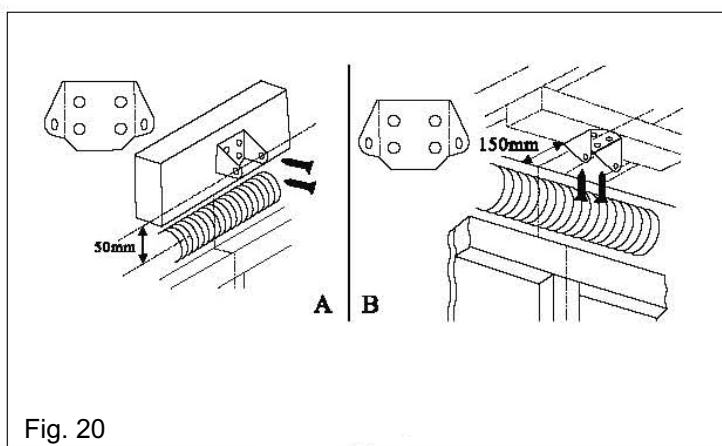


Fig. 20

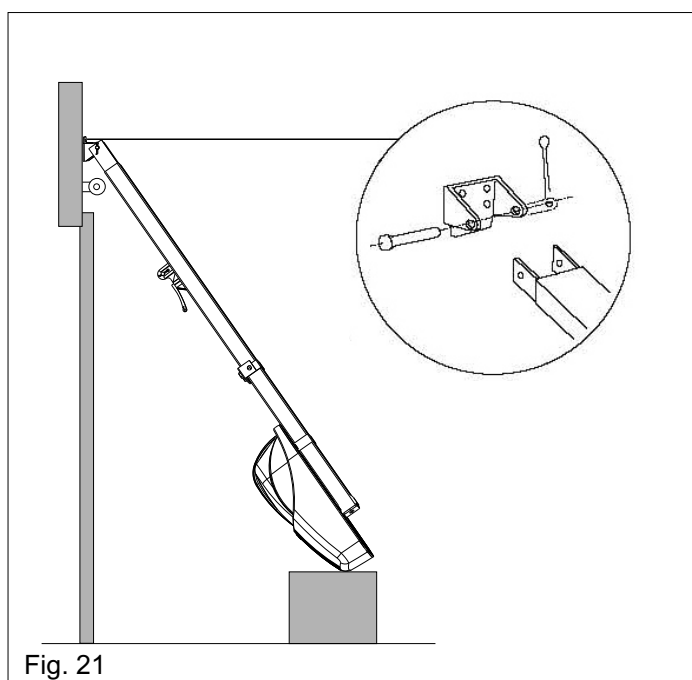


Fig. 21

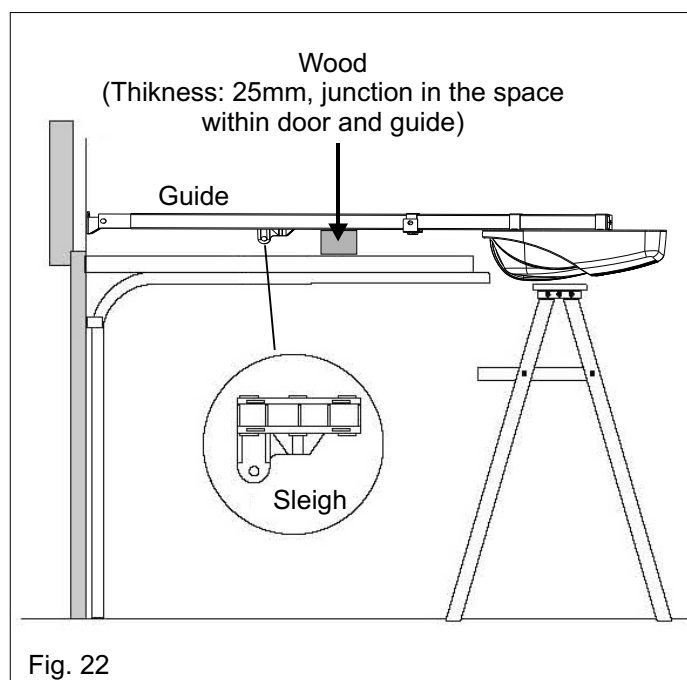
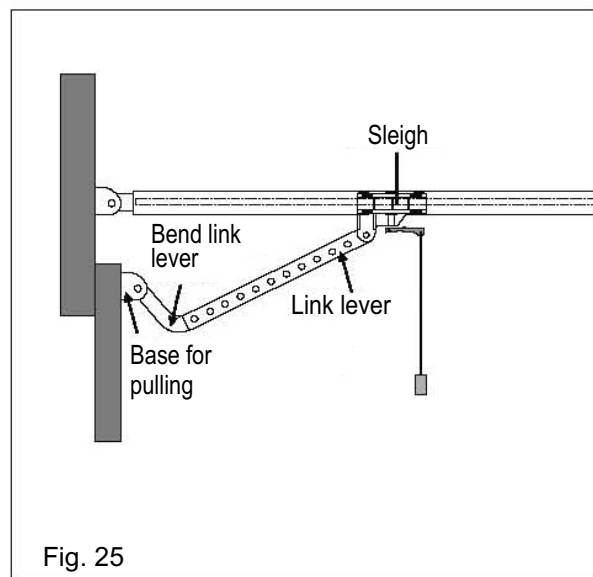
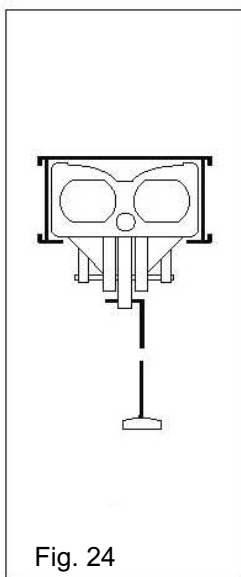
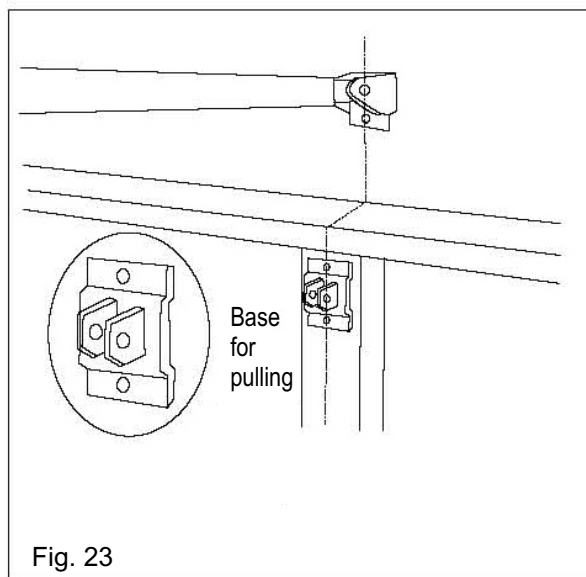


Fig. 22

After having fixed the operator to the hanging firmware, remove the wood.



6. CONNECTION OF THE DOOR WITH THE SLIDING BLOCK (SLEIGH) FOR CORONA RP



1. Close the door and fix the base for pulling at the center on the top of the door (Fig. 23).

2. Release the sleigh (Fig. 24).

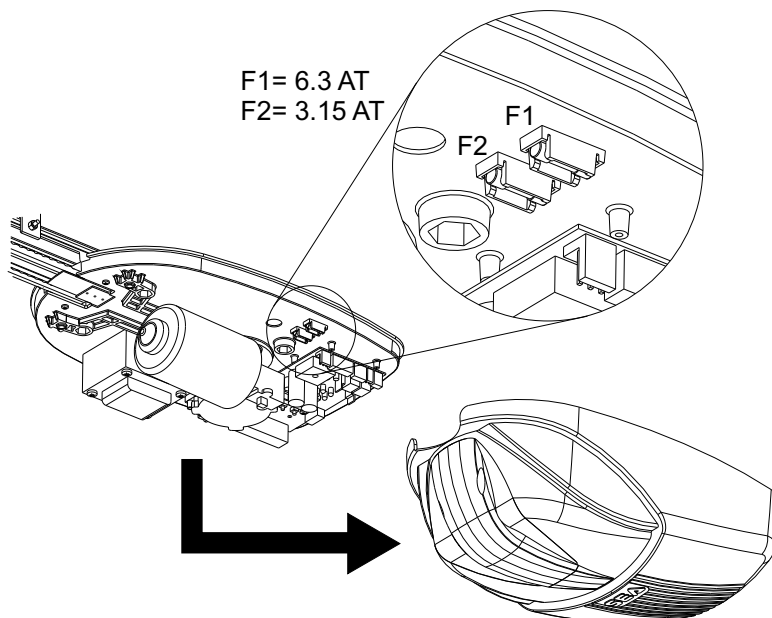
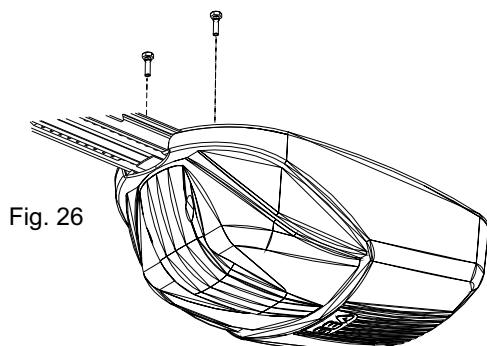
Place the sliding block (sleigh) near the door. Connect the base for pulling, the bend link lever, the link lever and the sleigh (Fig. 25).

- Install the manual release at a height of max. 1.8m
- The warning boards against entrapment should be permanently fixed in a known place or near any fixed control.
- The notice concerning the manual release should be permanently fixed next to said release.

After installation, make sure that the mechanism is properly adjusted and that the drive reverses when the door touches a 50 mm high object placed on the floor.

7. ELECTRONIC CONTROL UNIT

For accessing the electronic unit and execute all desired settings, unscrew the two fixing screws (Fig. 26) and open the case as shown in Fig. 27.





8. TYPICAL INSTALLATION

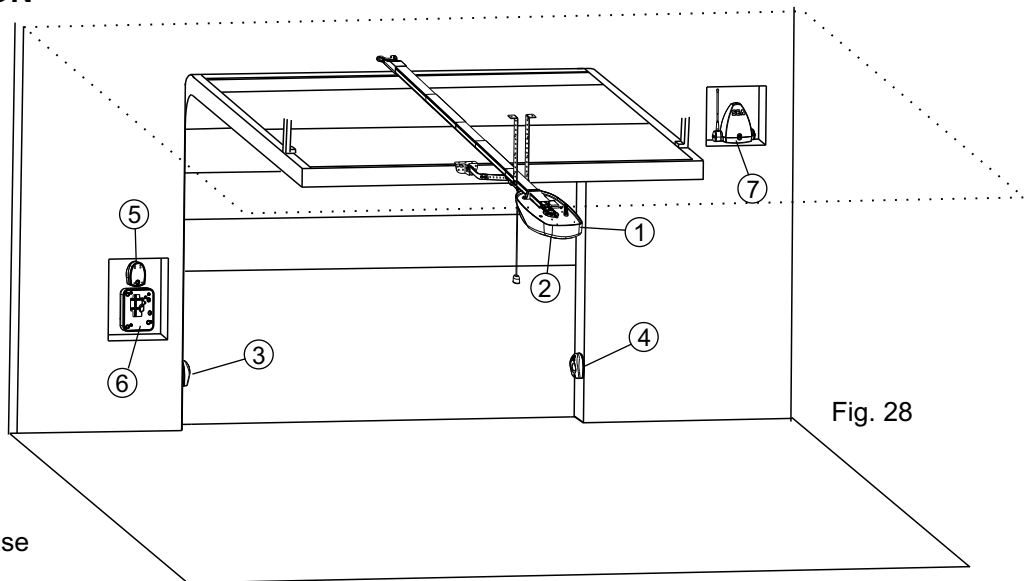


Fig. 28

- 1) CORONA S/RP operator
- 2) On board receiver
- 3) Left photocell
- 4) Right photocell
- 5) Start-Stop button
- 6) Safety box for external release
- 7) Warning lamp

9. PERIODICAL MAINTENANCE

Verify the smooth sliding of the chain	Semestral
Verify the tightening of the chain	Semestral
Verify the stability of the ceiling and door junctions	Semestral
Verify the door is in a good state and that the slides are not dirty	Annual
Verify the tension of the steel cable of the external release	Annual
Verify the general condition of the operator (transformer, motor, electronic control unit)	Annual
Keep the chain and the sliding support lubricated	Semestral

NOTICE

SEA s.r.l. can not be deemed responsible for any damage or accident caused by product breaking, being damages or accidents due to a failure to comply with the instructions herein. The guarantee will be void and the manufacturer responsibility (according to Machine Law) will be nullified if SEA Srl original spare parts are not being used.

The electrical installation shall be carried out by a professional technician who will release documentation as requested by the laws in force. This is a quotation from the GENERAL NOTICE that the installer must read carefully before installing.

Packaging materials such as plastic bags, foam polystyrene, nails etc must be kept out of children's reach as dangers may arise.

All the above described operations must be made exclusively by an authorized installer.

SAFETY PRECAUTIONS:

All electrical work should conform to current regulations. A 16 A 0,030 A differential switch must be incorporated into the source of the operators main electrical supply and the entire system properly earth bonded. Always run mains carrying cables in separate ducts to low voltage control cables to prevent mains interference.

INTENDED USE:

The CORONA S/RP operator has been designed to be solely used for the automation of sectional doors and balancing doors.

SPARE PARTS:

To obtain spare parts contact: **SEA s.r.l. - Zona Ind.le, 64020 S. ATTO Teramo Italia**

SAFETY AND ENVIRONMENTAL COMPATIBILITY:

Don't waste product packing materials and/or circuits.

When being transported this product must be properly packaged and handled with care.

CORRECT DISPOSAL OF THIS PRODUCT (WASTE ELECTRICAL & ELECTRONIC EQUIPMENT) - EUROPE ONLY



(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

LIMIT OF GUARANTEE

For the guarantee see the sales conditions on the official SEA price list.

MAINTENANCE AND OUT OF SERVICE:

The decommission and maintenance of this unit must only be carried out by specialised and authorised personnel.

NOTE: THE MANUFACTURER CAN NOT BE DEEMED RESPONSIBLE FOR ANY DAMAGE OR INJURY CAUSED BY IMPROPER USE OF THIS PRODUCT.

SEA reserves the right to do changes or variations that may be necessary to its products with no obligation to notice.

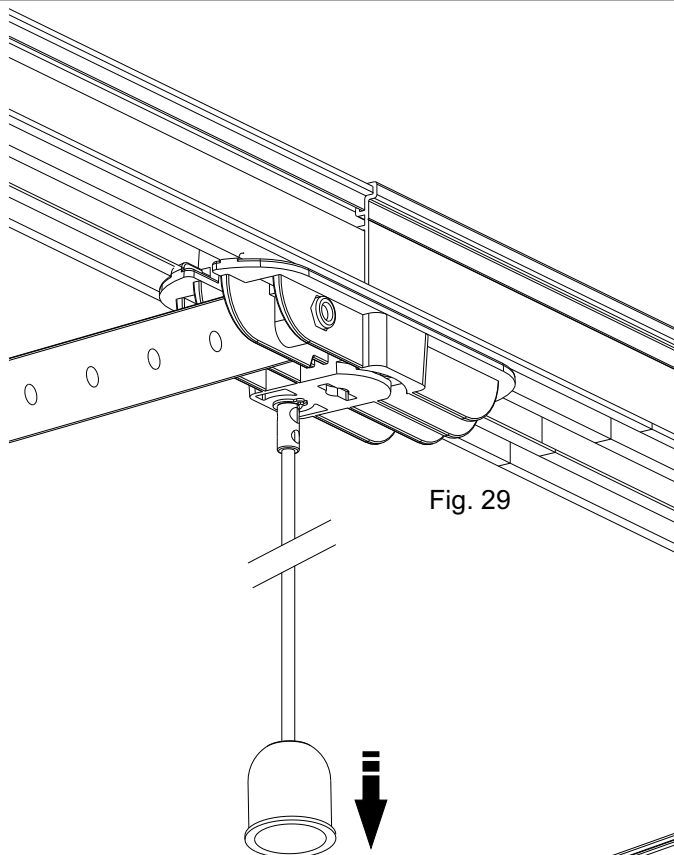


To the attention of users and technicians

10. STRING RELEASE SYSTEM FOR CORONA S AND CORONA RP

To release the operator, work as follows:

- Pull the release knob and open the door manually (Fig. 29).



11. HANDLE RELEASE SYSTEM FOR CORONA S

To release the operator, work as follows:

- Turn the knob and open the door manually (Fig. 30)

Notice: This release system allows the external releasing of the door

