



SEA[®]

Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 804888

CE

English

STORM 24V



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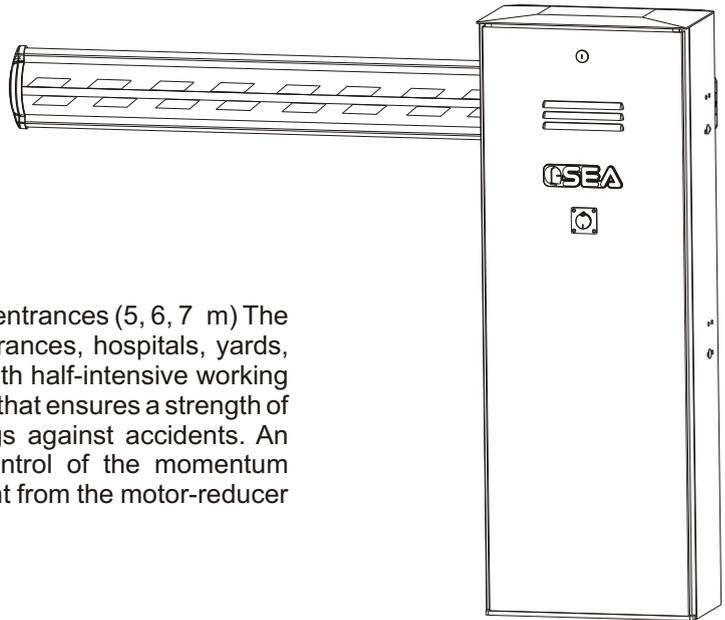
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SEA s.r.l. is glad to congratulate and thank you for choosing our product. Your choice will allow you to understand how our factory, according to studies, research and above all the needs of our customers, wants to gather technology, reliability and safety together keeping in mind use and installation easiness.



General characteristics

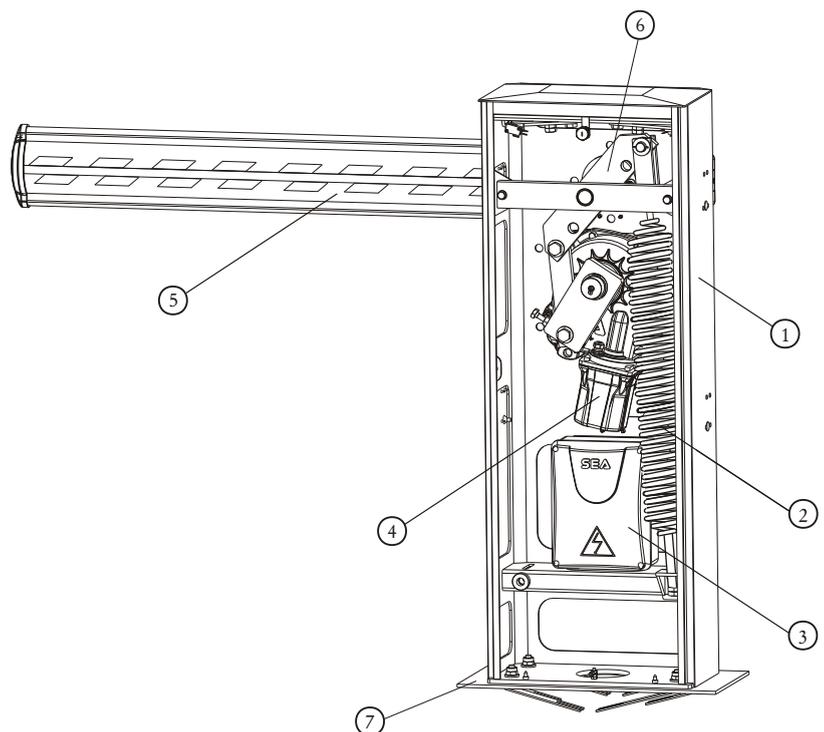
Storm is an electro-mechanical automation for big carriage entrances (5, 6, 7 m) The places for fitting are multiple; Storm is ideal for camp entrances, hospitals, yards, private roads, port and airport entrances, public parking with half-intensive working cycles. It is provided with an anti-crush device (230 version) that ensures a strength of max. 15 kg on the beam so to ensure people and things against accidents. An accurate slowing down system guarantees the total control of the momentum strength. The manual release makes the beam independent from the motor-reducer so to allow the manual closing and opening.

The automation consists of :

- 1 The cataphoresis and epoxy treated dust painted steel sheet casing protects all mechanical and electric devices from atmospheric agents. On request it is also possible to receive the casing in stainless steel.
- 2 The balancing spring is delivered according to the beam length, inside the beam kit (See spring tab.)
- 3 GATE 1 electronic control unit for 230 version and USER 1 24V for 24V version, advanced devices which allow the programming and control of all working and safety systems.
- 4 Motor-reducer with manual release for the manual opening of the beam in case of damages.
- 5 Beam in extruded aluminium, available sizes: from 5 to 7,5 m.
- 6 Mounting plate out of steel sheet coated with zinc.
- 7 Balancing wheel in galvanized steel.

List of the main parts:

1. Storm Series casing
2. Balancing spring
3. Electronic Control Unit
4. Storm operator
5. Aluminium beam
6. Balancing lever
7. Storm/Vela Ind. mounting plate





Technical data	24V Version	24V Version
Voltage supply	230 V~ ± 5% - 50/60 Hz	115 V~ ± 5% - 50/60 Hz
Motor tension	24V	
Power absorption	150W	
Opening time	7-9 s	
Max. Beam length	7,5 m with fork / 7 m side fixation	
Protection degree	IP55	
Motor revolutions	2800 RPM	
Operating temperature	-20° K + 55°C	
Weight	83 Kg	
Manual release	yes	
Use frequency	70%	

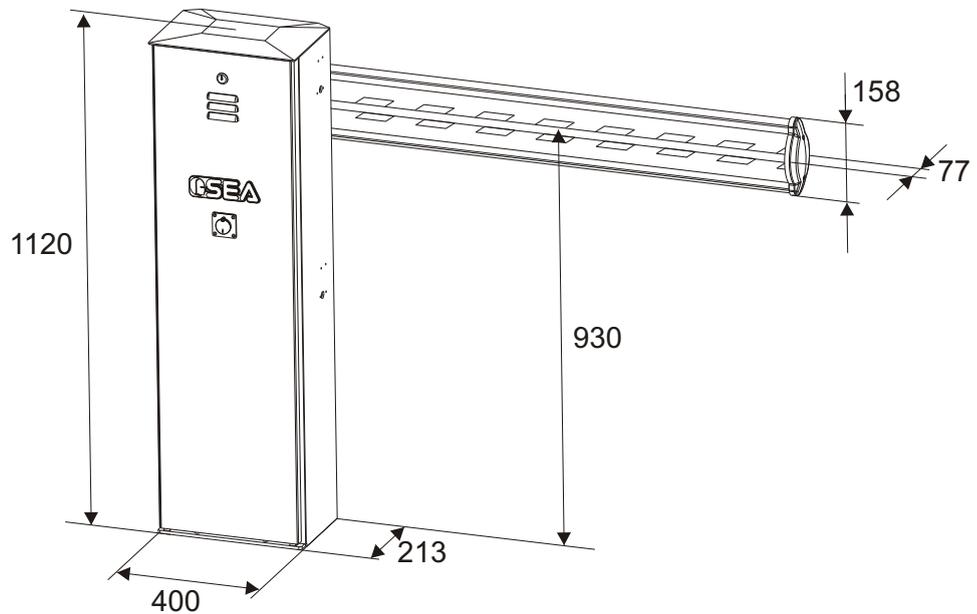
Rectangular beam		
Barrier Length	D. Spring	Flexibile support
5 m	10,5 mm	yes
6 m	11 mm	yes
7 m	11,5 mm	yes
7,5 m	12,5 mm	yes

Linear beam		
Barrier Length	D. Spring	Flexibile support
5 m	10,5 mm	yes
6 m	11 mm	yes
7 m	11,5 mm	yes

Side beam with skirt		
Barrier Length	D. Spring	Type of skirt
5 m	11 mm	4,5 m
6 m	11,5 mm	5,5 m
7 m	12,5 mm	6,5 m

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

Dimensions (mm):



FITTING INSTRUCTIONS

1) Position of spring



Right hand closing barrier

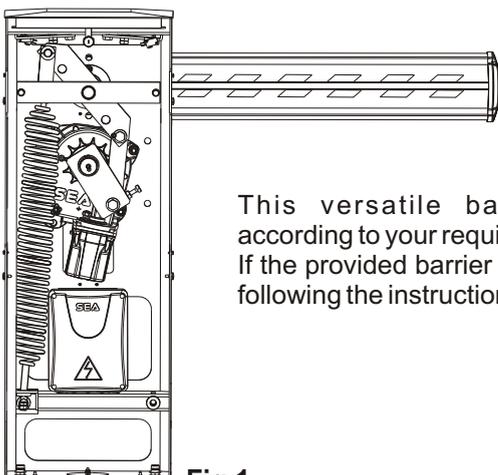


Fig.1

Left hand closing barrier

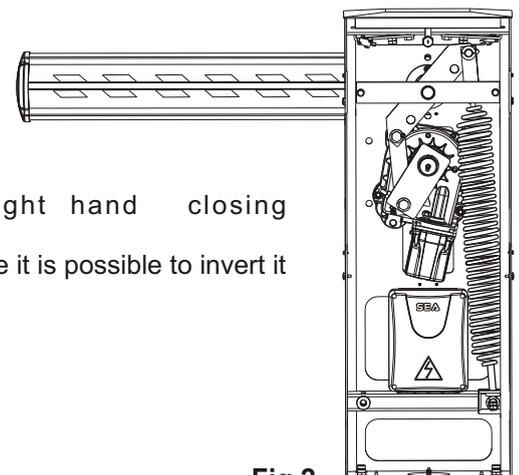


Fig.2

This versatile barrier allows the left or right hand closing according to your requirements. If the provided barrier does not close on the desired side it is possible to invert it following the instructions.



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N.B.: The operator comes as shown in Fig.1 (Closing on the right hand side).

Example:

Barrier with right hand closing (Fig.1)

Barrier with left hand closing (Fig.2)

Before installing the spring check the choice of the barrier, if right or left hand side.

If the barrier is with closing on the left hand side move the connecting rod from the right to the left hand side as shown in Fig.4 and 5.

N.B.: Before executing this operation release the motor-reducer as shown in Fig.19.

Once exchanged the connecting rod tighten its fixation screw and lubricate with grease (Use DIN 51502 KP 2 N-20 - K 2 K-20 grease).

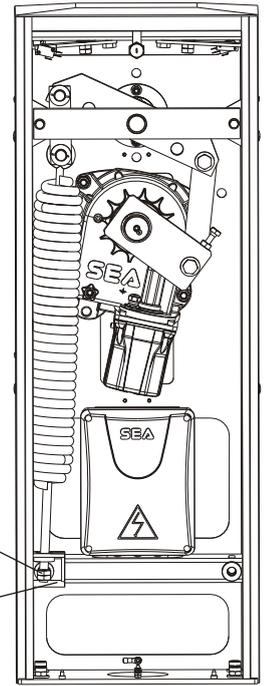


Fig. 3

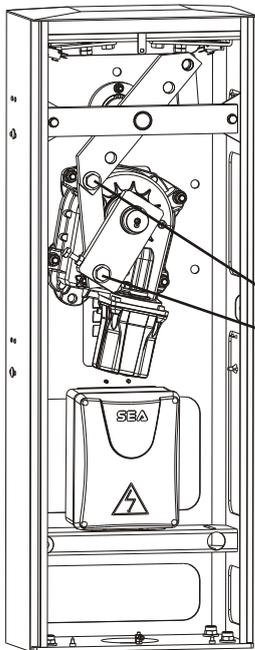


Fig. 4

Tighten
at Max.50 Nm

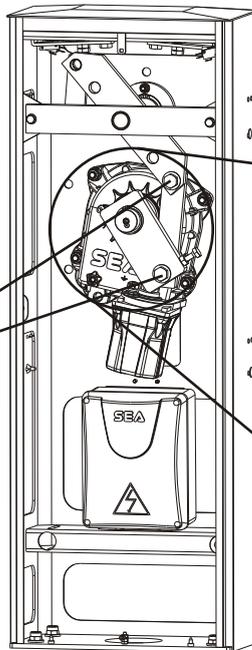


Fig. 5

Spring tensioning
bolt

Spring support

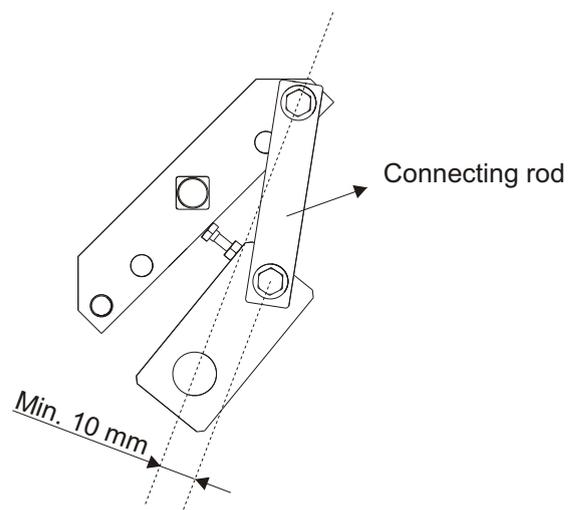
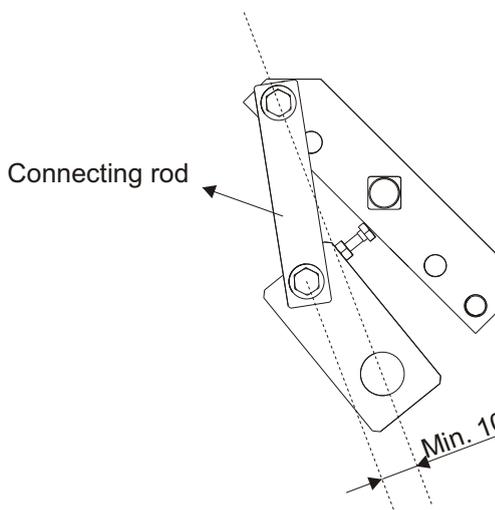
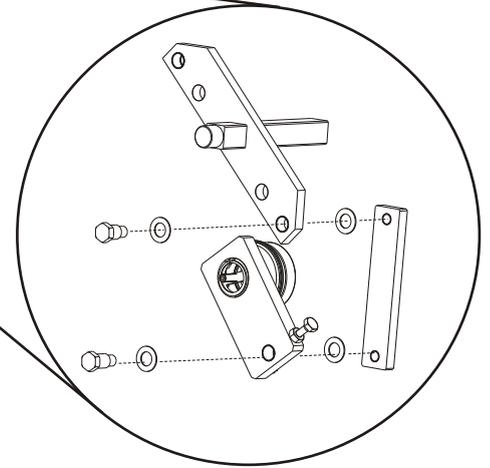


Fig. 6



2) Mounting of the spring

Insert the spring in to the carter as shown in Fig.7.

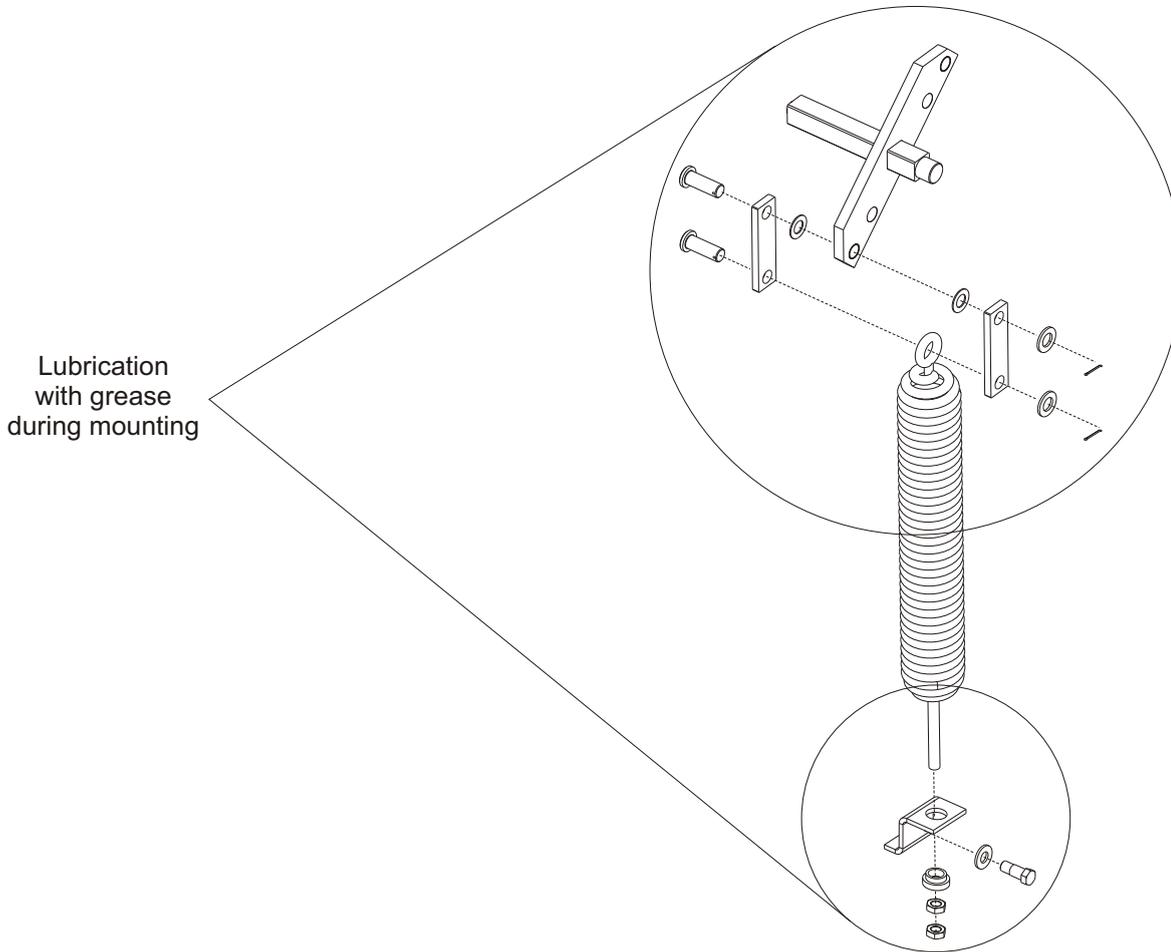


Fig. 7

3) Mounting plate fixing

- Dig a hole 800x600x400
- Widen the foundation plate clamps at 60° (Fig. 8)
- Fill the hole with R425 concrete and place the foundation plate as in Fig. 8.
- Level the plate with care.

* The plate has got a central hole for electric wiring so before filling the hole with concrete put an electric wire sheathing on the hole.

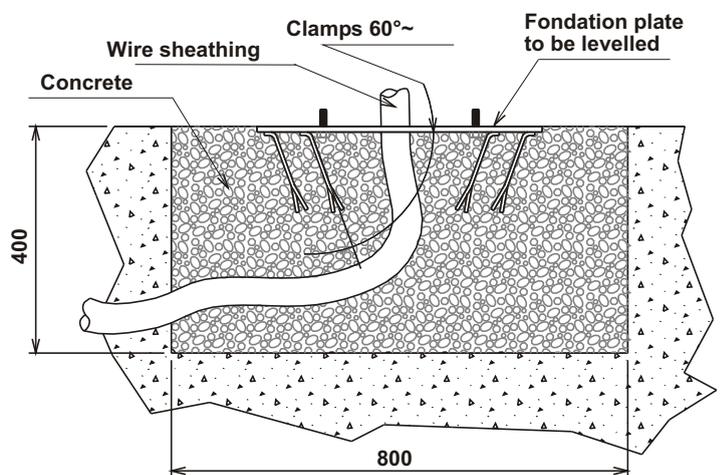


Fig. 8



4) Fixing the column on the foundation plate

- Place the column so that the holes at the base correspond to the screws that emerge from the foundation plate.
- Make sure that the wire sheathing is fixed on the big central hole at the base of the column.
- Tighten the column to the foundation plate screwing the provided nuts and bolts with care.

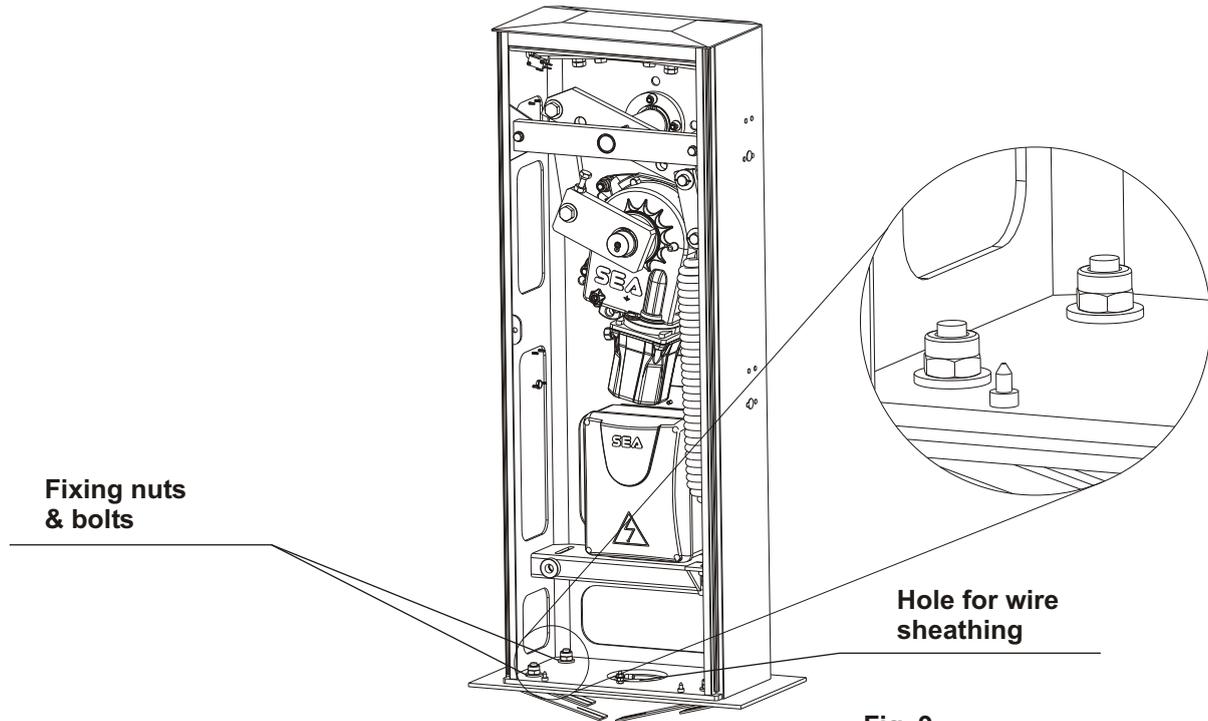


Fig. 9

5) Mounting of the central beam with fork (Fig. 10)

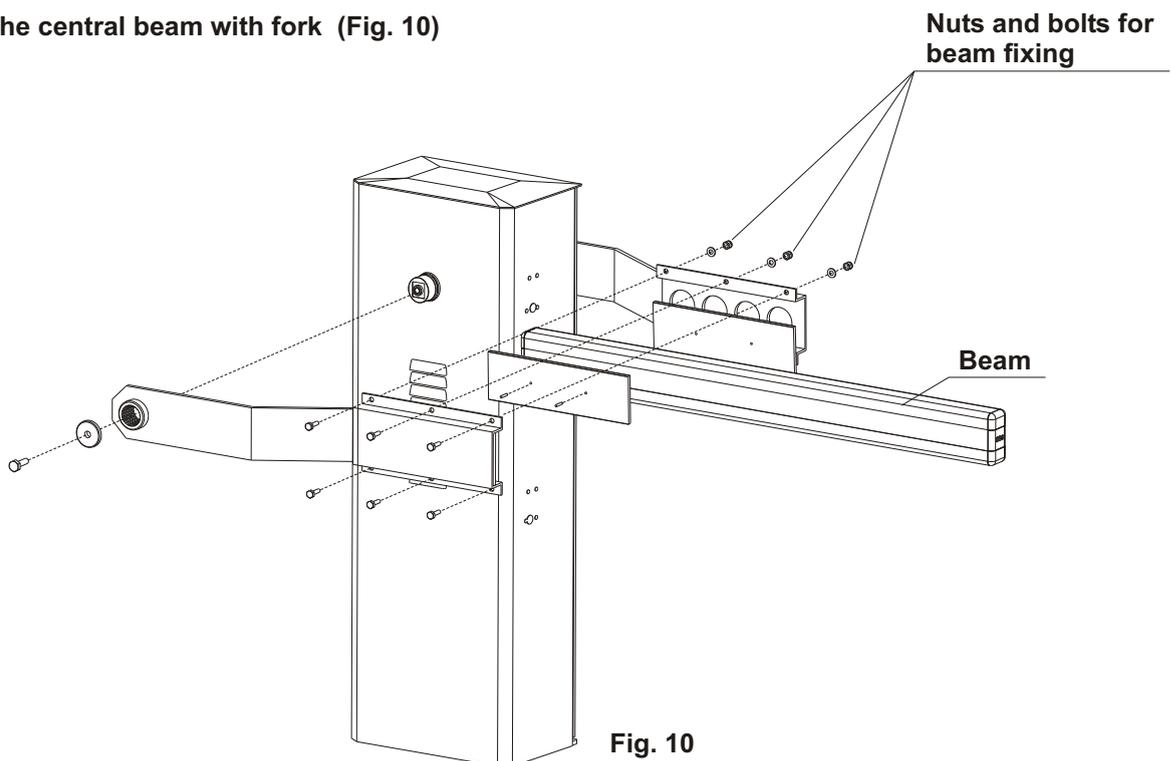


Fig. 10



6) Mounting of the beam (Fig. 11)

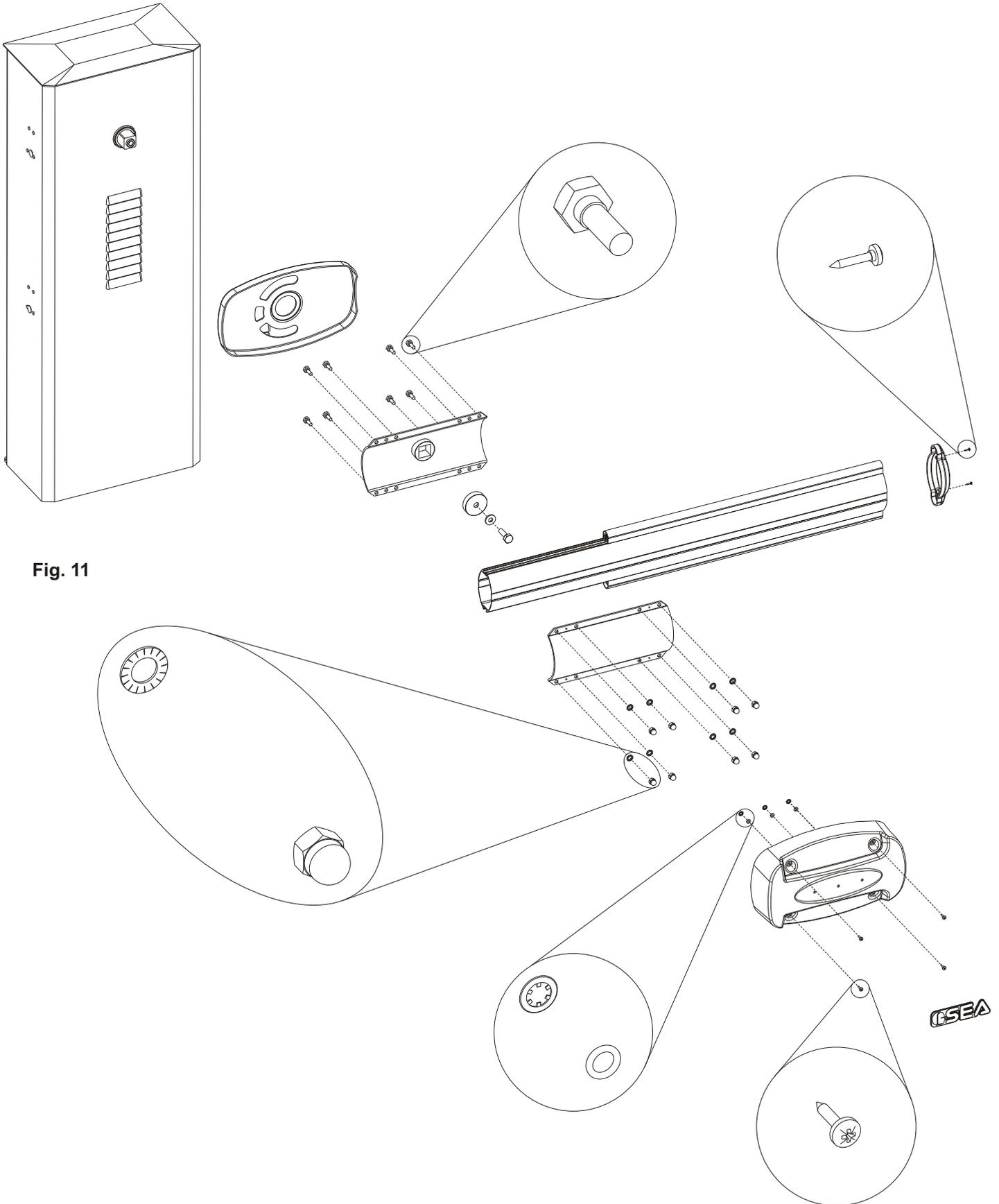


Fig. 11



7) Mounting of the skirt on the beam

N.B.: The skirt can be installed only on lateral mounted beams.

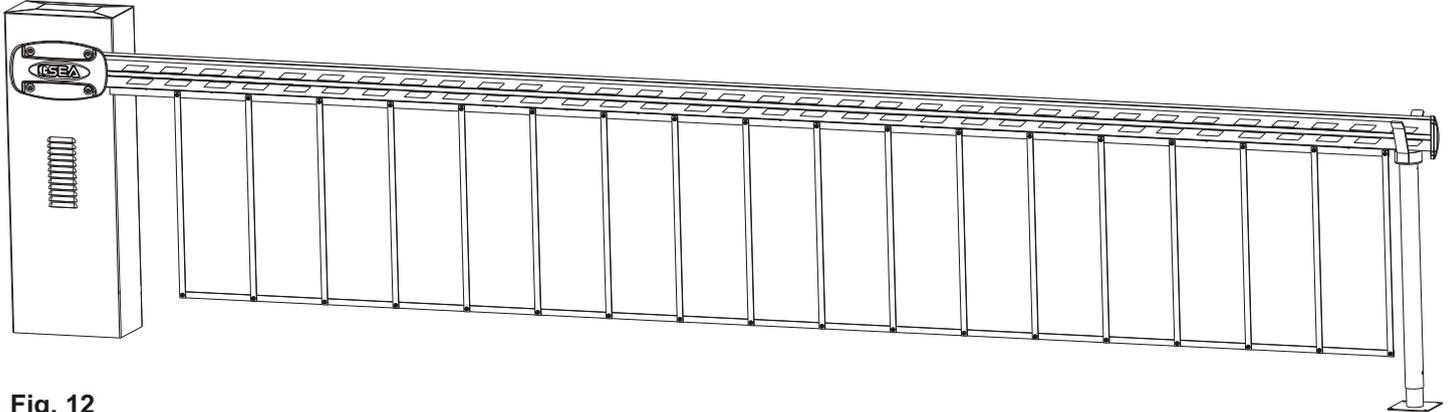


Fig. 12

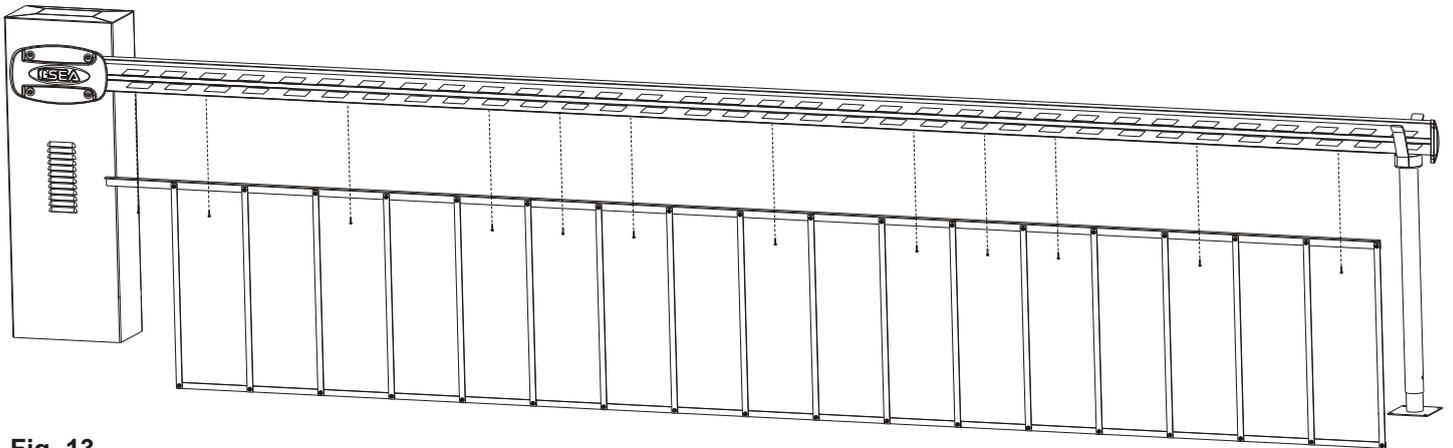


Fig. 13

8) Balancing the spring

- Turn the manual release valve anti-clockwise to release the motor/reducer so that the beam can be opened and closed manually.
- Place the beam at approx. 45° and execute the balancing with the nuts of Fig. 14.
To obtain a correct balancing the beam must be on 45° and the operator must be unlocked.
- Tight or untight the spring adjusting bolt locknut so that the spring reaches a balance point with the beam at 45° (Fig. 14).
- After balancing fix the spring adjusting bolt locknut with the bolt and block the motor/reducer.

9) Barrier power supply

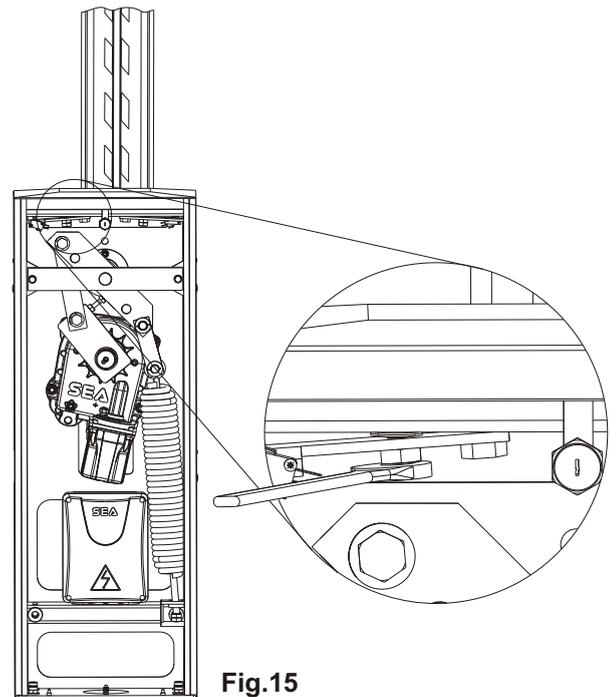
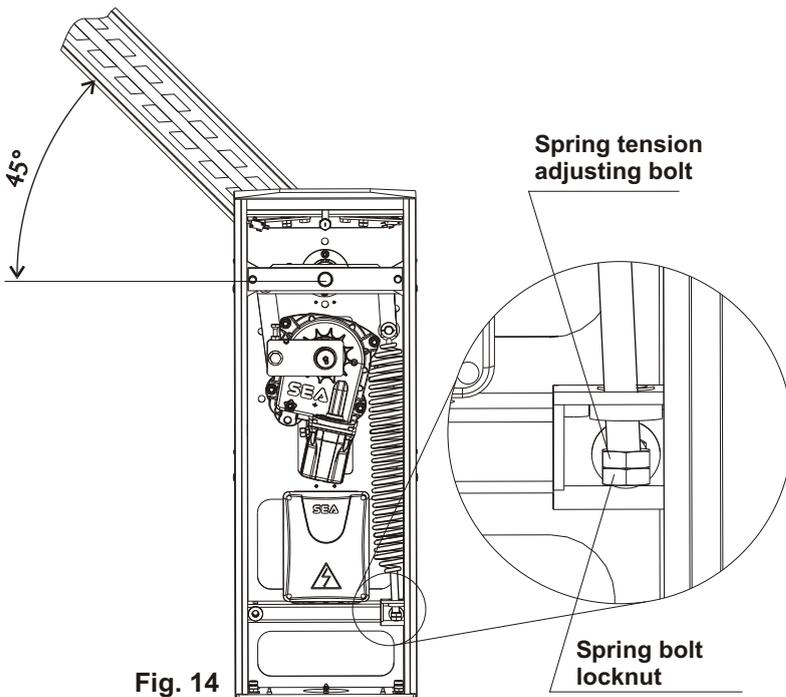
Now it is possible to power supply the barrier.



10) Levelling the beam

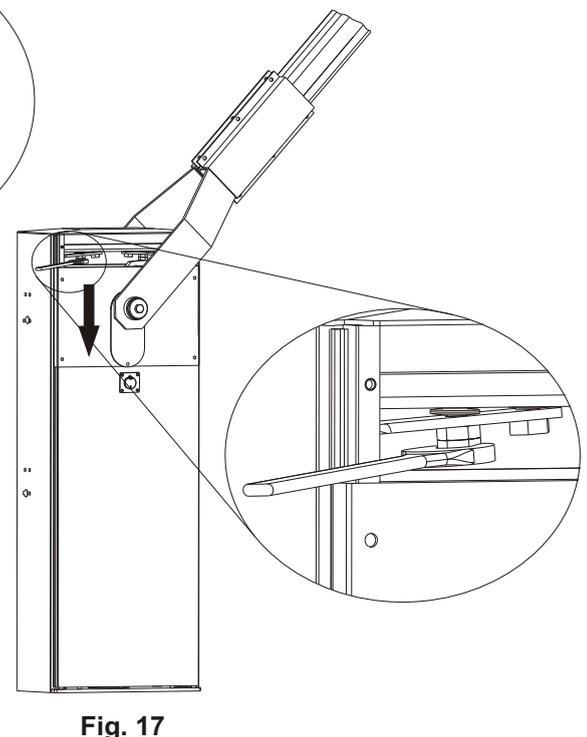
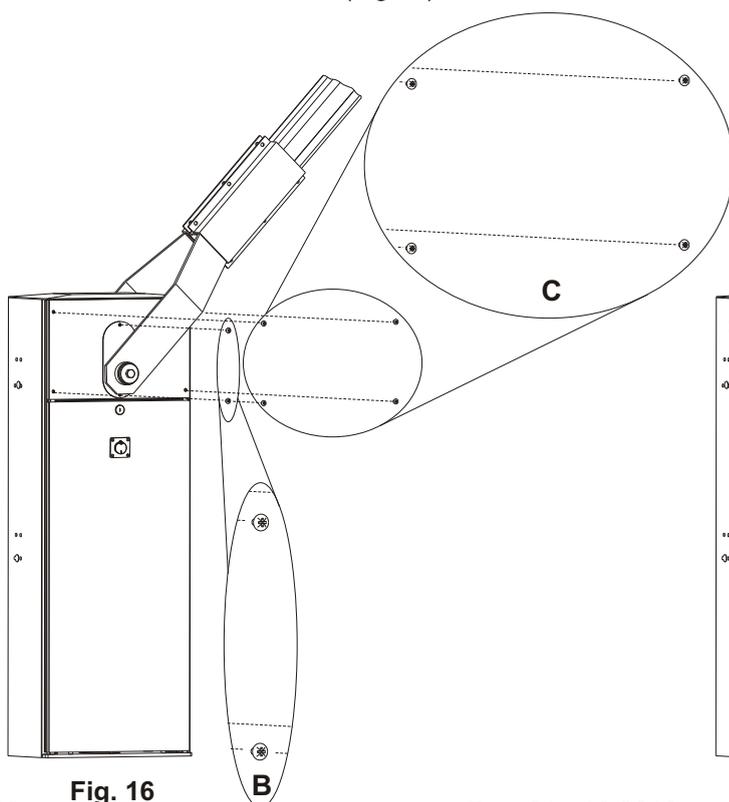
Important: This manoeuvre must be executed only if at the end stroke the beam is not in perfectly horizontal position in closing or in perfectly vertical position in opening.

- Unlock the actuator through the release screw so that the beam opens and closes manually.
- Release the end stroke screws unscrewing the lock nuts on the limit switch (Fig. 15).
- Screw or unscrew the end stroke screws so that the beam stays in perfectly vertical position in opening and in perfectly horizontal position in closing (Fig. 15).
- After levelling, fix the end stroke by tightening the lock nuts on the limit switch and block the actuator.



11) Levelling of the central beam with fork

First extract the screws B, than the screws C (Fig. 16). Continue as described in the preceding paragraph.





12) Standard installation

In Fig.18 you find the necessary wiring for the barrier installation.
 The two numbers placed next to the electric cables show their quantity and section.

Legend:

- 1) Electronic control unit
- 2) Photocell (receiver)
- 3) Photocell (transmitter)
- 4) Key switch
- 5) Radio receiver
- 6) Warning light
- 7) Push button board
- 8) Differential switch

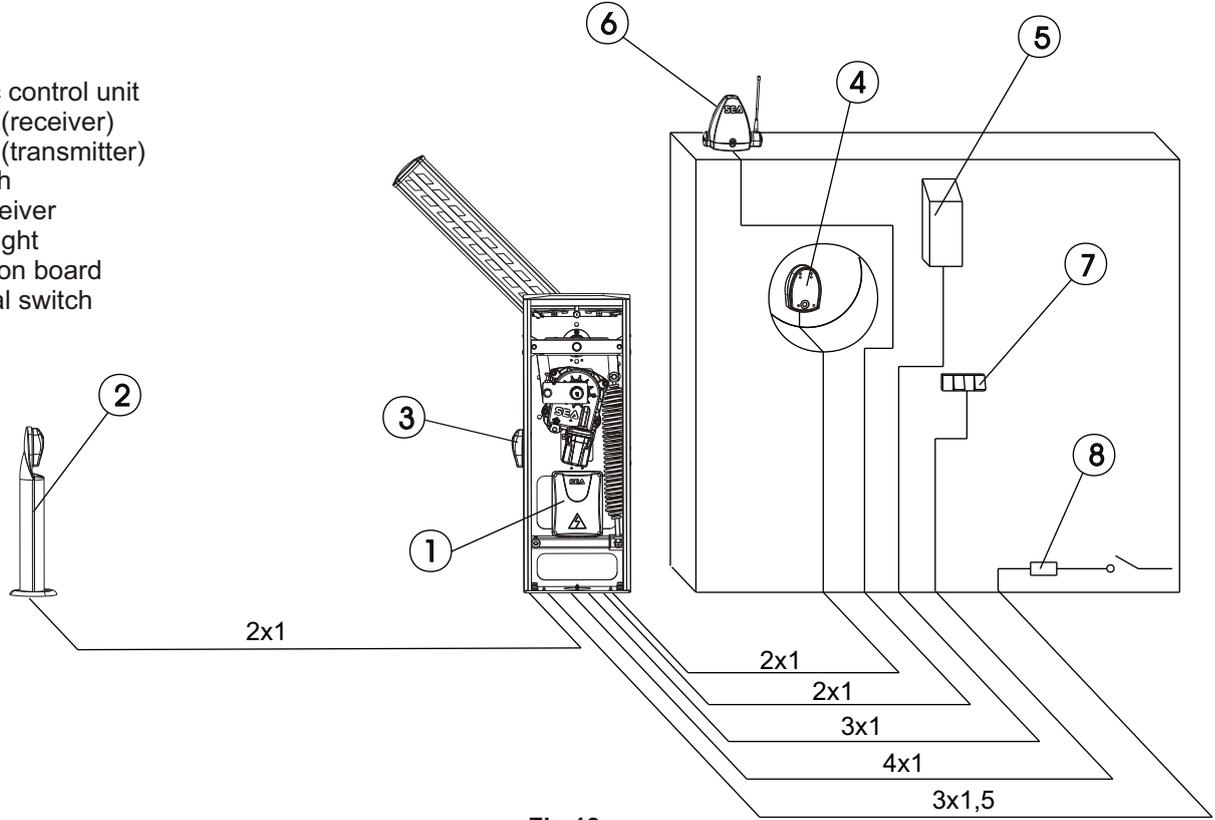


Fig.18

13) Accessories for STORM



KEY SWITCH



PHOTOCELLS



SKIRT (ONLY ON SIDE BEAM)



WARNING LAMP



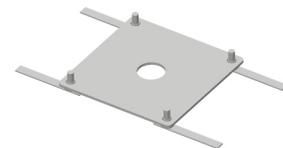
FIXED FORK SUPPORT



ADJUSTABLE FORK SUPPORT



FEXLIBLE SUPPORT (ONLY BEAM)



COUNTER PLATE FOR FORK SUPPORT



To the attention of users and technicians

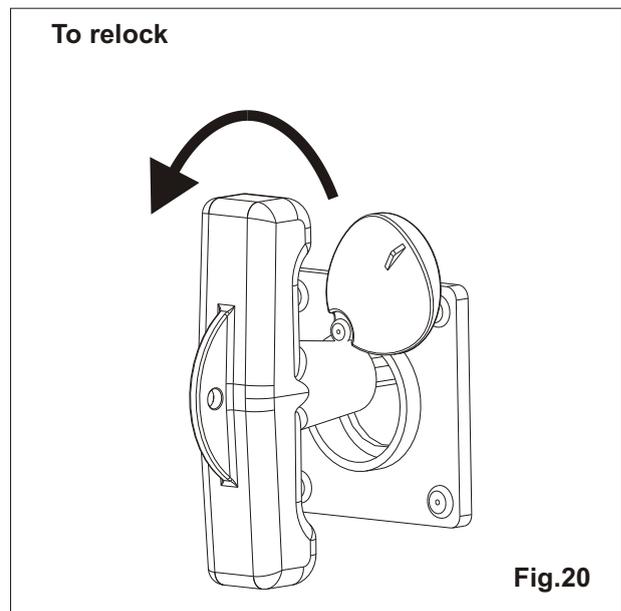
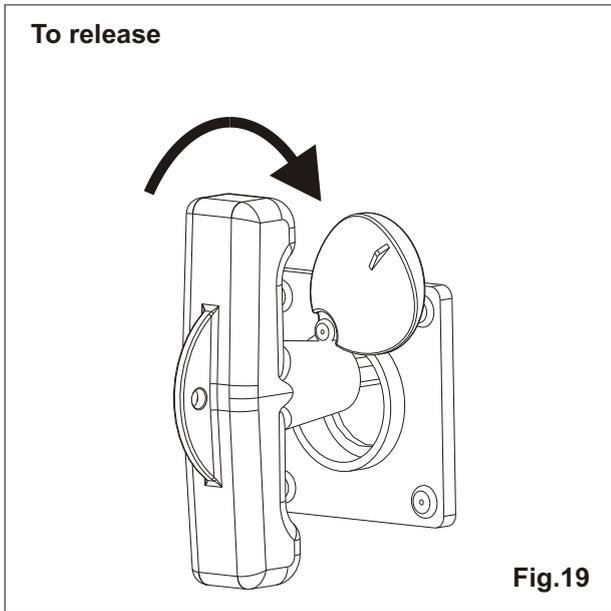
14) Release system

To release operate as follows:

- Open the lid and insert the key
- Turn it clockwise up to the release of the operator.

To re-lock operate as follows:

- Turn the key anti-clockwise until it stops
- Manually move the beam until it re-engages
- Close the lid



PERIODICAL MAINTENANCE

Check the functionality of the release	Annually
Lubricate all moving parts	Annually
Check the efficiency of the spring (balancing)	Annually
Check the beam fixing screws, the balance and the casing	Annually
Check the integrity of the connexion cables	Annually

All above mentioned operations must be executed exclusively by authorized installers.

INITIAL CHECK AND PUTTING INTO SERVICE

After having completed the correct installation of the product STORM, as described in the present manual and after having valued all resting risks which could arise in whatever installation, **it is necessary to test the automation to guarantee the max. security** and in particular way to guarantee the respect of the laws and norms in force. The test must be executed following the **EN12445** ruel which establishes the testing methods for testing the gate operators, respecting the limits foreseen by the **EN 12453** law.



To the attention of users and technicians

WARNING

The electric installation and the working logic choice must be done according to the existing laws. A 16A - 0,030A differential switch must be foreseen on the source of the operators- main electrical supply and the entire system must be properly earth bonded.

Keep the power cables (motors, power supply) separate from the control cables (push buttons, photocells, radio etc.) . Use two different sheathings to avoid interferences.

Note: Use "cable clips" and/or "duct/box pipes" fittings close to the control panel box so to protect the interconnection cables against pulling efforts.

N.B.: The barrier comes without inversion unit in case of obstacles. For the respect of the laws EN 12453 and EN 12445 we recommend to add external units.

USE

STORM has been designed to be solely used for the automation of barriers.

SPARE PARTS

To obtain spare parts contact:

SEA s.r.l. ZONA Ind.le, 64020 S.ATTO Teramo Italia.

SAFETY AND ENVIRONMENTAL COMPATIBILITY

Do not spoil the environment with product and circuit packing material.

STORAGE

STORAGE TEMPERATURES			
T _{min}	T _{max}	Humidity _{min}	Humidity _{max}
-40°C 	+80°C 	5% no condensation	90% no condensation

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

MAINTENANCE AND OUT OF SERVICE

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

LIMIT OF GUARANTEE

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

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 modify or adjust the products and information provided in this manual with no obligation to notice.



To the attention of users and technicians

ARRANGEMENTS

Read attentively the installation manual as it gives important indications concerning safety, installation, use and maintenance.

Installation, maintenance, reparation, controls and eventual putting out of function of the product must be executed by qualified staff only.

For the security of people it is important to follow with attention all the advises and instructions in this manual. A wrong installation or a wrong use of the product can cause sever damages to people.

The max. length of the power supply cable between control unit and motors is 10m, use cables with 2,5 mm² section.

Use wirings with double insulated cables (cables with sheath) up to the immediate proximities of the terminals especially for the power supply cable (230V~).

The control unit must not be used by people (including children) whose physical, sensory or mental ability is reduced, or with lack of experience or knowledge, unless they are guarded or have been instructed on how to use the control unit by a person responsible for their safety. Children must be guarded to make sure that they don't play with the control unit.

Foresee on the power supply net of the automation a device that assures the complete omnipolar disconnection from the net, with a distance of opening of the contacts on each pole of at least 3mm. Those devices of disconnection have to be foreseen on the power supply net accordingly to the rules of installation, and they have to be directly connected to the power supply terminals.

It is necessary to keep in adequate distance (at least 2.5 mm in the air) the low tension conductors (230V~) from the very low tension conductors (SELV) or to use a suitable sheath of at least 1 mm which supplies an additional insulation.

Make sure that during installation the power supply and interconnection cables cannot come into contact with pointed or sharp extremities.

Dispose of the package materials (plastics, carton, polistirene, etc.) respecting the laws in order. Keep nylon and polistirene bags out of the reach of children.

Save these instructions for further information attaching them to the technical documents.

This product has been projected and built exclusively for the use described in this instrucion manual. Uses not indicated in this manual could damage the product and be source of danger.

SEA declines all responsibility for improper or different use from the one for which it has been planed and described in the present manual.

Don't install the product in explosive atmospheres.

SEA declines all responsibility for the non-observance of the good technique in the construction of closings (doors, gates, etc.), as well as for the deformations which could occure during the use.

Remove the power supply before any intervention on the installation. Disconnect also possible battery buffers if present.

Make sure that the earth installation has been correctly made: connect all the metallic parts of the closing (doors, gates, etc.) and all the components of the installation provided with earth terminals.

Apply all the safety devices (photocells, sensitive edges, etc.) which are necessary to protect the area from dangers of crushing, conveying, cutting.

SEA declines all responsibility for safety and for the correct functioning of the automation if parts of other producers are used.

Use only original parts for any maintenance or reparation.

Do not modify the parts of the automation if not explicitly authorized by SEA.

Instruct the user of the installation on the applied command systems and how to manually open the gate in case of emergency.

What is not explicitly contained in these instructions is not permitted.



TERMS OF SALES

EFFICACY OF THE FOLLOWING TERMS OF SALE: the following general terms of sale shall be applied to all orders sent to SEA srl. All sales made by SEA to all costumers are made under the prescription of this terms of sales which are integral part of sale contract and cancel and substitute all apposed clauses or specific negotiations present in order document received from the buyer.

GENERAL NOTICE The systems must be assembled exclusively with SEA components, unless specific agreements apply. Non-compliance with the applicable safety standards (European Standards EM12453 – EM 12445) and with good installation practice releases SEA from any responsibilities. SEA shall not be held responsible for any failure to execute a correct and safe installation under the above mentioned standards.

1) PROPOSED ORDER The proposed order shall be accepted only prior SEA approval of it. By signing the proposed order, the Buyer shall be bound to enter a purchase agreement, according to the specifications stated in the proposed order.

On the other hand, failure to notify the Buyer of said approval must not be construed as automatic acceptance on the part of SEA.

2) PERIOD OF THE OFFER The offer proposed by SEA or by its branch sales department shall be valid for 30 solar days, unless otherwise notified.

3) PRICING The prices in the proposed order are quoted from the Price List which is valid on the date the order was issued. The discounts granted by the branch sales department of SEA shall apply only prior to acceptance on the part of SEA. The prices are for merchandise delivered ex-works from the SEA establishment in Teramo, not including VAT and special packaging. SEA reserves the right to change at any time this price list, providing timely notice to the sales network. The special sales conditions with extra discount on quantity basis (Qx, Qx1, Qx2, Qx3 formula) is reserved to official distributors under SEA management written agreement.

4) PAYMENTS The accepted forms of payment are each time notified or approved by SEA. The interest rate on delay in payment shall be 1.5% every month but anyway shall not be higher than the max. interest rate legally permitted.

5) DELIVERY Delivery shall take place, approximately and not peremptorily, within 30 working days from the date of receipt of the order, unless otherwise notified. Transport of the goods sold shall be at Buyer's cost and risk. SEA shall not bear the costs of delivery giving the goods to the carrier, as chosen either by SEA or by the Buyer. Any loss and/or damage of the goods during transport, are at Buyer's cost.

6) COMPLAINTS Any complaints and/or claims shall be sent to SEA within 8 solar days from receipt of the goods, proved by adequate supporting documents as to their truthfulness.

7) SUPPLY The concerning order will be accepted by SEA without any engagement and subordinately to the possibility to get it's supplies of raw material which is necessary for the production; Eventual completely or partially unsuccessful executions cannot be reason for complains or reservations for damage. SEA supply is strictly limited to the goods of its manufacturing, not including assembly, installation and testing. SEA, therefore, disclaims any responsibility for damage deriving, also to third parties, from non-compliance of safety standards and good practice during installation and use of the purchased products.

8) WARRANTY The standard warranty period is 12 months. This warranty time can be extended by means of expedition of the warranty coupon as follows:

SILVER: The mechanical components of the operators belonging to this line are guaranteed for 24 months from the date of manufacturing written on the operator.

GOLD: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator.

PLATINUM: The mechanical components of the operators belonging to this line are guaranteed for 36 months from the date of manufacturing written on the operator. The base warranty (36 months) will be extended for further 24 months (up to a total of 60 months) when it is acquired the certificate of warranty which will be filled in and sent to SEA s.r.l. The electronic devices and the systems of command are guaranteed for 24 months from the date of manufacturing. In case of defective product, SEA undertakes to replace free of charge or to repair the goods provided that they are returned to SEA repair centre. The definition of warranty status is by unquestionable assessment of SEA. The replaced parts shall remain propriety of SEA. Binding upon the parties, the material held in warranty by the Buyer, must be sent back to SEA repair centre with fees prepaid, and shall be dispatched by SEA with carriage forward. The warranty shall not cover any required labour activities.

The recognized defects, whatever their nature, shall not produce any responsibility and/or damage claim on the part of the Buyer against SEA. The guarantee is in no case recognized if changes are made to the goods, or in the case of improper use, or in the case of tampering or improper assembly. Furthermore, the warranty shall not apply if SEA products are partly or completely coupled with non-original mechanical and/or electronic components, and in particular, without a specific relevant authorization, and if the Buyer is not making regular payments. The warranty shall not cover damage caused by transport, expendable material, faults due to non-conformity with performance specifications of the products shown in the price list. No indemnification is granted during repairing and/or replacing of the goods in warranty. SEA disclaims any responsibility for damage to objects and persons deriving from non-compliance with safety standards, installation instructions or use of sold goods.

9) RESERVED DOMAIN A clause of reserved domain applies to the sold goods; SEA shall decide autonomously whether to make use of it or not, whereby the Buyer purchases propriety of the goods only after full payment of the latter.

10) COMPETENT COURT OF LAW In case of disputes arising from the application of the agreement, the competent court of law is the tribunal of Teramo. SEA reserves the faculty to make technical changes to improve its own products, which are not in this price list at any moment and without notice. SEA declines any responsibility due to possible mistakes contained inside the present price list caused by printing and/or copying. The present price list cancels and substitutes the previous ones. The Buyer, according to the law No. 196/2003 (privacy code) consents to put his personal data, deriving from the present contract, in SEA archives and electronic files, and he also gives his consent to their treatment for commercial and administrative purposes. Industrial ownership rights: once the Buyer has recognized that SEA has the exclusive legal ownership of the registered SEA brand, he will commit himself to use it in a way which does not reduce the value of these rights, he won't also remove, replace or modify brands or any other particularity from the products. Any kind of replication or use of SEA brand is forbidden as well as of any particularity on the products, unless preventive and expressed authorization by SEA.

In accomplishment with art. 1341 of the Italian Civil Law it will be approved expressly clauses under numbers:

4) PAYMENTS - 8) GUARANTEE - 10) COMPETENT COURT OF LAW



ENGLISH

GENERAL INSTRUCTIONS FOR A SAFE AND CORRECT INSTALLATION OF AUTOMATIC SYSTEMS FOR DOOR AND GATE OPENING

INTRODUCTION

Dear customer,

this brochure will give you all the possible information on the correct use of automatic systems of door and gate opening as well as advice on modes and kind of uses, correct maintenance and all necessary safety instructions.

We remind you a useful reading of this brochure for your personal safety. SEA products and this brochure are consistent with the Machine Regulation (2006/42/CE and following adjustments), Low Tension (2006/95/CE), Electromagnetic Consistency (2004/108/CE).

Before starting whatsoever installation, be aware of understanding the brochure in all its parts. In case of misunderstandings and further information refer to our area referents or phone assistance. They will be happy to give you all the information you may request.

Before starting whatsoever installation, be aware of reading this brochure even twice before using the system so to verify the correct assembling and good system working.

Remember that a correct installation followed by functional tests, is the most important step to assure your system a long-lasting life without damages and personal safety.

This brochure is part of your just bought system. Keep it in a well known-easy to find-place so that it is available every time you need it. Furthermore, the brochure is a main guide for SEA products installing; the installer must carefully comply with it.

Respecting the herewith enclosed data means conformity to regulations and reliability on a working and safe system.

SEA product you have just bought has to be used only for doors, gates, leaves and barriers automating. SEA is not responsible for uses not referred to or personal find-outs by installers, not authorised by SEA.

SEA gives the installers a Customer Phone Technical Assistance Service for explanations on this brochure and eventual information on training courses.

GENERAL DIRECTIONS

Before the installation takes place, make sure that the product has not been damaged in the parts which could compromise its assembling or safe working. Check the packing stuff and if you have the right fixing materials. On the check we refer to the instructions available on each model.

Make sure that the structure on which you are fixing the product is sufficiently strong for strains (e.g. against the wind force on the gate or product surface) and hold the anchorage firmly.

SEA S.r.l. forbids installation on unsafe, fragile or crumbling walls which can't hold strains and do not provide an effective sustain.

Consult a technician if you are not sure about the wall strength.

The place where the product has to be installed must be compatible with the product itself. Avoid: place excessively icy on winter times; direct exposure to corrosive agents or similar. It is not possible to make a list of all the possible negative conditions. Anyway, pay attention on where you are placing the system.

Further characteristics of the installation place (e.g. minimum spaces, distances to be kept) are available on the instructions of each product and sector regulation normative.

Further information for a correct installation (e.g. schemes of electrical connections) are usually available on the installation instructions of each product or enclosed schemes.

Product installation has to be executed by technicians only.

All the systems must be installed by sector technicians who will issue a document as provided by law. Remember that the automation that you will go to install will be a machine to all intents and purposes and therefore subject to the Machines Directive 2006/42/CE and following modifications.

Before connecting the electrical power to the network, make sure that engine data and distribution grid are the same and that electrical power is compatible with the maximum power.

The product electrical safety is reached only when it is connected to a efficient grounding as provided by safety law. Meeting the just stated requirement is very important; if doubtful refer to a qualified technician. SEA can't be hold responsible for damages being caused for no grounding.

It is not allowed the installation in presence of children or unauthorised person.

SEA forbids every kind of adjustment or modify of product anchorage points or product itself if not authorised.

Extra anchorages and adjustments required have to be directly shown to SEA with drawings attached of the required modification.

Only after eventual SEA written authorisation the product installation is possible. Without authorisation SEA is not responsible for failing assemble or product dysfunction.

A faulty installation can be cause of damage to people, animals and things which SEA can't be claimed responsible for.

Further conditions and details are directly reported in the UNI EN 13241-1 regulation to which to refer in eventual, special cases.

PLEASE NOTE: Packing stuff such as: plastic bags, foam polystyrene, screws etc. must be kept out of children reach ever since they could be dangerous.

FIRST SETTING UP AND CONTROLS

Make sure that product has not been damaged while being installed so to work poorly and unsafely.

Check the detectors, limit switches control and safety devices. They must be well installed and working.

If you are not sure about safety devices performance, start the system and be very careful.



During this first step, the installer has to be very close to the controls. If the system doesn't work perfectly the installer has to stop it immediately. The installer is the only authorised person to use the product. Non authorised people are to be taken away from dangerous zone. The installer will work on the commands provided by SEA only.

As a precaution it is useful that a second person stays five metres far from the product being so able to watch the installer and helpful in case of danger.

Before starting the first operation keep runners, strokes, hinges and element moving spaces clear of obstacles.

On the first starting keep children, animal, non authorised person away.

Don't set any command if doubtful, don't modify any command provided.

Don't touch any electrical part if some part of your body is either wet or humid.

In case of dysfunction search the troubling causes by following installation instructions and solve the problems.

If it shouldn't prove to be enough, assemble the product again following the instructions available in your just bought product.

If a further assembling proved to be useless, refer to factory technicians.

EXPLOITABLE MODES

SEA products have been designed and built for buildings and whatever needing automatic systems for doors, gates, leaves and barriers.

Product opening and closing must be carried out by runners and strokes provided by SEA.

SEA, forbids whatsoever modification of forces acting on the product (e.g. by adding weight to leaves, changing panels or glasses, varying motor power).

The building owner is responsible for the instruction and information of eventual users.

SEA is not responsible for accidents due to users poor instruction. The product has not to be used by children and non authorised person.

The use is forbidden on occasion of ice and whatever situation could damage the product (e.g. during a thunderstorm).

The use of the product is forbidden if it is badly preserved or the safety device doesn't work properly (e.g. the product is too old).

The use of the product is also forbidden in presence of whatsoever chemical agent compromising the product and user safety (e.g. chemical agents damage product characteristics and user clearness of mind as well).

Before starting the first operation keep runners, strokes, hinges and element moving spaces clear of obstacles.

Keep clear of the manoeuvring area, hinges and mechanic organ moving.

Put out a clear warning notice if the product is remote controlled.

PLEASE NOTE! Don't stick any object to the product in its parts. Product surfaces and whatever part have to be kept free of additional obstruction, weights, limit switches that haven't been provided in the installation.

PLEASE NOTE! If product leaves, its support structure or other parts are damaged by accidental impacts, stop the system immediately. The product will not be used afterwards unless repaired.

USE ADJUSTMENTS

Every adjustment process is being carried out during the product installation. The adjustment is on charge of the installer who has to follow the installation brochure.

ENABLED USES

SEA product you have just bought has to be used for doors, gates, leaves and barriers automating only. SEA is not responsible for uses not referred to or personal find-outs by installers, not authorised by SEA.

DIFFERENT EXPLOITATION WAYS

Never use the product for different aims. **Whatever use different from the ones enabled is forbidden.** Different uses will be considered out of place and outside the provider limits. SEA is not responsible for eventual damages and the warranty will be called off.

PRODUCT CLEANING

Obstructions on the movement points can affect the efficiency and time length of the product.

Bear in mind that cleaning is subject to external factors such as: Weather factors, use mode, product age, corrosive agents, etc.

The evaluation and intervention on dirtiness is left to users who will increase or reduce cleaning frequency according to product state time by time.

Cleaning has to be done when the system is stopped and the electric board is off.

Never use solvent, abrasive material or unsuitable methods contrasting the product features.

If the product gets in touch with damaging materials, keep the area clear of materials and clean the whole product

On winter time, because of low temperatures, it is better to keep the runners dry ever since ice could damage their functions

MAINTENANCE

Put the differential switch of the power supply off before maintenance. In case of trouble refer to authorised technicians.

As far as the electric board is concerned refer to an authorised electric technician. The electric scheme must be never modified in all its parts.

Check the screws twice a year, since movement vibrations make them unscrew.

SEA advises not to use greases unfit for weather conditions which dry very early. We recommend the use of a flexible grease gun.

Refer to SEA for repairs.

Check the safety devices in time. Machine protections have to be sound; if they are not, they must be replaced.

Never act on parts which haven't been indicated on the brochure unless troubles or needs calling. Before acting ask for information.

PLEASE NOTE! *If you are unable to a professional maintenance, if tools or specialised offices are unavailable, contact the nearest installation service.*

MAIN SAFETY STANDARDS

Check that runners and stroke are free moving.

Never adjust or maintain while the system is working. As for maintenance, make sure the product is stopped, electrical board is off and working cycle excluded.

Don't remove the protections. If obliged, fix them back with care before usage.

Never use the product outside its operative capacity as described in the brochure (inaccuracy is cause for calling the warranty off).

Suggestions on the warning notice placed on the product must be respected for question of safety.

As for suggestions not available in the brochure, refer to normative laws in which the system works.

Use SEA original spare parts: they guarantee safety standards. (The use of non original spare parts is also cause of warranty calling off).

If the product frame is deformed (e.g. shocks) its use is not allowed. Damaged parts must be replaced (small sheet or leaves dents are not compromising and are therefore allowed). Contact our area distributor for further information.

WARNING NOTICE

The installer has to provide for the necessary warning notice for eventual and/or unpredictable dangers.

Warning notice must be kept clear and visible. They must not be hidden or taken away. They must be replaced if unreadable.

TRANSPORT

The product is packed and all the components are in their own boxes.

As for transport, behave as for packages of the same dimensions.

Be very careful for eventual lifting in the packing weight and linking points.

Load must be well shared between the linking points; it has to be centred and well balanced as well.

Use the hoist or lifting stripes with a tackle to share the load.

While using the lifting stripes do not deform the package.

Don't use tools which could compromise the balance during the lifting process. Don't touch or deform the product on the move.

Use licensed lifting tools; read carefully the instructions as for means of transport and tools (e.g. tackle, hoist etc.)

Product can be carried by means of transport. Loading limits and local transport laws must be respected.

Prevent the packed good against twists or moves during loading and transport.

Remember safety instructions while lifting or transporting the product.

SEA S.r.l. is not responsible for damages on the transport unless the transport is on its charge.

If an already installed product must be transported it has to be uninstalled and dismantled in its parts as it was before assembling. The elements must be packed as if they were newly packed. Therefore follow the before mentioned instructions.

PLEASE NOTE! *SEA, forbids the lifting and transport of already installed products not being uninstalled, well dismantled and correctly packed.*

PLEASE NOTE! *It is forbidden whatever transport form or means different from the before mentioned ones.*

INSTRUCTIONS FOR OUT SERVICING

If the product is scrapped get rid of it in the right way (e.g. separate metal, rubber, wires, oil). Refer to authorised factories according to the disposal of waste material law.

ADJUSTMENTS

In its continuous striving to improve its products, SEA has the right to adjust it at any time without warning. SEA is not obliged to adjust the products manufactured in the past.

SPARE PARTS

Refer either to the factory where the product was bought or to SEA area distributor indicating the replacing part. For electrical and electronic waste, 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. (Applicable in the European Union and other European countries, with separate collection systems).



WARRANTY

For the warranty conditions see the official SEA price list.

The warranty is a replacement of the faulty part if the damage is due to faults in the material or manufacturing. Under no circumstance Sea responsibility will exceed the single part buying price. Therefore the purchaser will not be refunded for damages such as:

loss of production;
loss of profit or selling;
machines stop;
whatever circumstantial damage, non applicable to the simple use of the product.

Warranty is also not applicable in the following circumstances:

irrational or faulty uses of the product;
transgression of the use, maintenance and safety instructions;
non authorised adjustments;
assembling of non original spare parts;
passing the power limits in the data;
connection to a non conformity electric net;
if the product is being resold even within the warranty time;
laws in the customer country.

Parts being normally used (e.g. gaskets, bearings) and general consumption materials (e.g. oil, grease etc.) are excluded from warranty unless being faulty in the assembling or manufacturing.

SEA is not responsible for damages or accidents being produced by eventual product breaking if they are consequent to instruction default. Eventual damages occurred in the transport or delivery, are excluded from warranty unless the transport is on SEA charge.

IMPORTANT!

Warranty is not valid and SEA is not responsible if SEA original spare parts are not being used.

INSTRUCTIONS FOR THE ELECTRICAL SYSTEM

All the systems must be installed by sector technicians who will issue a document as provided by law.

Packing stuff such as: plastic bags, foam polystyrene, screws etc. must be kept out of children reach ever since they could be dangerous. Before connecting the electrical power to the network, make sure that engine data and distribution grid are the same and that electrical power is compatible with the maximum power.

Make sure that wiring is fit for the product power.

A faulty installation can be cause of damage to people, animals and things which SEA can't be claimed responsible for.

The product electrical safety is reached only when it is connected to an efficient grounding as provided by safety law. Meeting the just stated requirement is very important; if doubtful refer to a qualified technician. SEA can't be hold responsible for damages being caused for no grounding.

Don't touch any electrical part if some part of your body is either wet or humid.

Don't allow the use of the product to children or non authorised people. Keep the customers informed on the correct use, maintenance or safety.

Warning notice must be stored in a proper place.

Turn the differential switch off before maintenance.

Refer to authorised technicians for damages.

Refer to SEA S.r.l. for repairs.

Don't make a spiral winding of the supplying wire to avoid dangerous over heating.

Keep clear of the machine hinges and moving parts.

Attach a visible warning notice if the product is remote controlled.

Check in time if safety controls are working.



Questo articolo è stato prodotto seguendo rigide procedure di lavorazione ed è stato testato singolarmente al fine di garantire i più alti livelli qualitativi e la vostra soddisfazione. Vi ringraziamo per aver scelto SEA.

This item has been produced following strict production procedures and has been singularly tested for the highest quality levels and for your complete satisfaction. Thanks for choosing SEA.

Cet article a été produit suivant des procédures d'usinage strictes et il a singulièrement été testé afin de garantir les plus hauts niveaux de qualité pour votre satisfaction. Nous vous remercions d'avoir choisi SEA.

Este artículo ha sido producido siguiendo rigidos procedimientos de elaboración y ha sido probando singolarmente a fin de garantizar los mas altos niveles de calidad y vuestra satisfaccion. Le agradecemos por haber escogito SEA.

CERTIFICATO DI ESTENSIONE GARANZIA CERTIFICATE OF WARRANTY EXTENTION

n.

PRODOTTO/ PRODUCT

- Modello/Model _____
- Matricola n. /Serial Number _____
- Data di acquisto/Date of order _____
- Data di installazione/Date of installation _____

Centrale/Control unit	SEA <input type="checkbox"/>	Altri/Others	<input type="checkbox"/>
Fotocellule/Photocells	SEA <input type="checkbox"/>	Altri/Others	<input type="checkbox"/>
RX - TX	SEA <input type="checkbox"/>	Altri/Others	<input type="checkbox"/>
Altri accessori /Other accessories	SEA <input type="checkbox"/>	Altri/Others	<input type="checkbox"/>

UTENTE/Customer

Nome e Cognome _____
First Name and Family Name _____
Indirizzo/Address _____

INSTALLATORE/Installer

Ragione sociale/Company Name _____
Nome e Cognome/First and Family Name _____
Indirizzo/Address _____

INSTALLATORE/INSTALLER

Firma per il trattamento dei dati personali 196/2003
Agreement of law No. 196/2003 (Privacy Code)

Copia da restituire
Copy to be returned

Firma e Timbro
Sign and Stamp _____

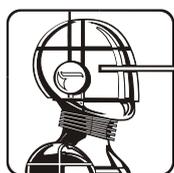
N.B: L'estensione della garanzia legale di 12 mesi a 24 mesi e 36 mesi è valida solo se il presente modulo viene rispedito per posta o fax a SEA Srl entro 15gg dalla data di acquisto. Allegare relativa fattura d'acquisto.

Note: The extension of the legal standard warranty of 12 months to 24 months and to 36 months, is valid only if the present form is returned by mail or fax to SEA Srl within 15days from the date of purchase. Attach customer invoice.



SEA[®]
Sistemi Elettronici
di Apertura Porte e Cancelli
International registered trademark n. 804888

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