



Puertas & Portones Automaticos S.A. de C.V.

¡Nuestra pasión es la Solución!....

»BARRERA DE ESTACIONAMIENTO ELECTROMECHANICA DE 4MTS Y 6MTS MARCA BAME MOD.LUX.

LUX



MANUAL DE INSTALACION



Versión Digital.

(229) 461-7028



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RESIDENCIAL



COMERCIAL



INDUSTRIAL

MEMBER



International Door Association



V08.23

(229) 927-5107, 167-8080, 167-8007, 151-7529



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»BARRERA DE ESTACIONAMIENTO ELECTROMECHANICA DE 4MTS Y 6MTS MARCA BAME MOD.LUX.



LUX

Safety
standard
specifications

WARNING



Electric shock!

WARNING



Keep safety distance!

WARNING



Moving
gears!

WARNING



Do not install
motors in areas
saturated with
explosives mixtures!

Electromechanical road barriers for passages from 2,5 mt up to 6 mt. with low voltage electric motors for intensive use and extensible aluminium round arm. The cabinet treated with electrophoresis and painted in epoxy powder can be used in any climatic condition. Available with mobile foot and articulated arm.

Technical features

Power supply	230Volt 50/60Hz
Motor voltage	24 Vcc
Motor power	90 W
Absorbed power	3,7 A
Motor rpm	2200 rpm
Duty cycle	INTENSIVE
Backup batteries	2 x 12 Vcc 5,2 Ah
Cycles with batteries	50 minimum
IP protection class	IP 55
Operating temp.	-20° / +50° C
Measures (with arm installed)	h100 x 30 x 35 cm
Weight	50 Kg



LED 24 VDC
FLASHING LIGHT



Dimensions

Tools needed
for the
installation
of the motor



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ATTENTION:

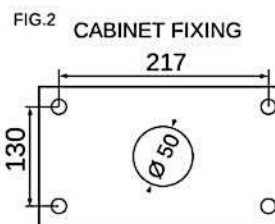
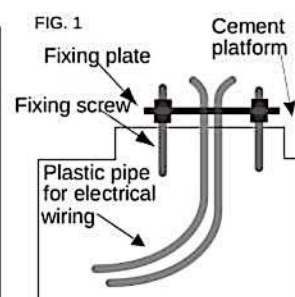
BAME s.r.l. is liable only for the individual articles produced and sold by BAME. The gate with the motor it's considered a machine and must respect the machinery directives, the installer must verify the safety of the gate with the motor and is liable for any damage due to a poor installation. BAME is not liable for any damage depending on modifications to any particular: electrical, electronic or mechanical done by other persons without prior consent by BAME s.r.l.. BAME is not liable for any damage depending on accessories, electronic control boards and photocells without BAME trademark or for the use of these parts without prior consent by BAME s.r.l..



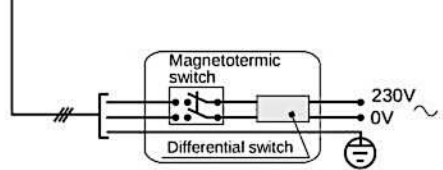
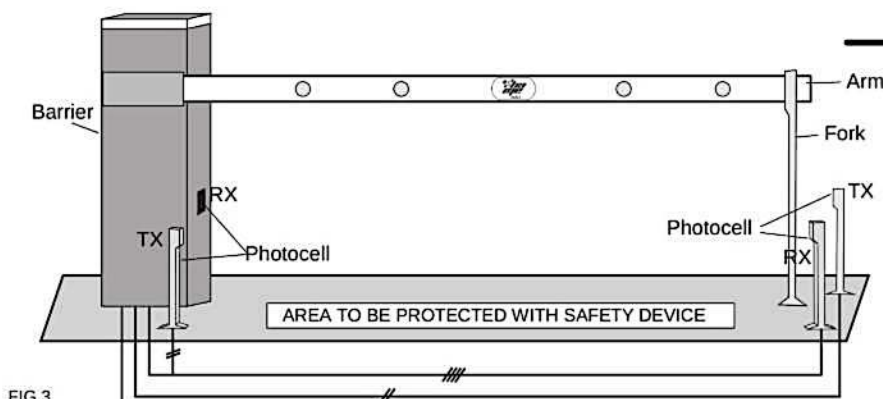
BEFORE PROCEEDING WITH INSTALLATION MAKE SURE THAT THE OPERATING FIELD OF THE BARRIER IS FREE FROM OBSTACLES AND ELECTRIC CABLES.

Assembling procedure

- 1) Prepare a cement platform perfectly straight and level to fix the body. On the center of this platform place the plastic pipes for the electrical wiring and the fixing plate .
- 2) Use suitable screws to fix the plate on the platform.
- 3) Fix the body on the fixing plate.
- 4) Install the arm in the arm support (see pag. 9/10).
- 5) Unlock the motoreducer (pag. 5) and set the spring using the regulation screw placed below the spring. Check that the arm movement is smooth and uniform. (see pag. 11)
- 6) Lock the motoreducer (pag 5), and proceed with the electrical wiring (see attached manual).
- 7) Verify that the arm stops in horizontal position (closing) and vertical position (opening).
If this position is to be adjusted, check the limitswitch magnets and the rubber vibration dumpers (see pag.11).



Hole diameter 15 mm
Screws diameter 12 mm
Are advise to be used



DO NOT REGULATE THE BARRIER WITH THE MOTOR IN FUNCTION!!

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Operations to transform a right barrier into a left barrier

1. Disconnect the power supply of the barrier
2. Unlock the motor
3. Place the barrier in the opening position
4. Lock the motor
5. Remove the arm if installed (see ARM REMOVAL pag.10)
6. Unscrew completely the regulation nut of the spring (PART: F)
7. Remove the articulated joint (PART:D) of the balancing lever (PART:B)and place it on the true in the opposite side
8. Insert the regulation screw in the left hole and screw the regulation nut of the spring
9. Tighten the screw on the balancing lever
10. Check the proper balancing of the arm, the regulation of the limitswitches and the anti-vibration rubber dumper (see pag.11)

Right barrier with the arm in vertical position

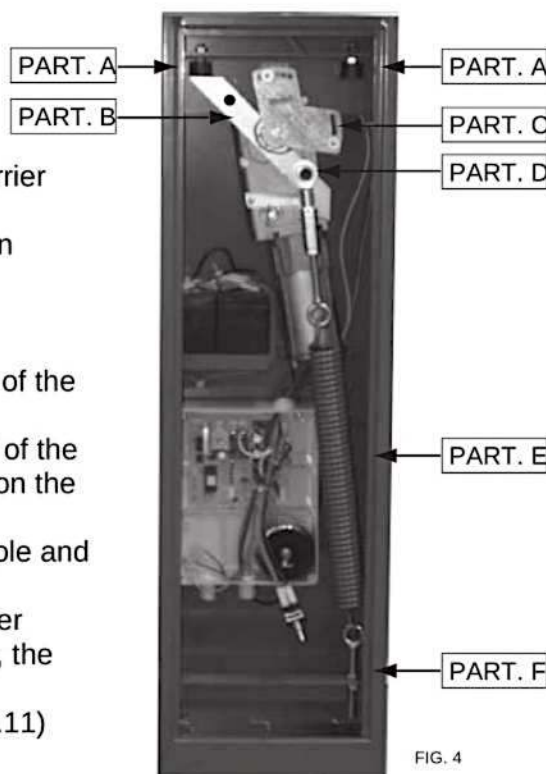
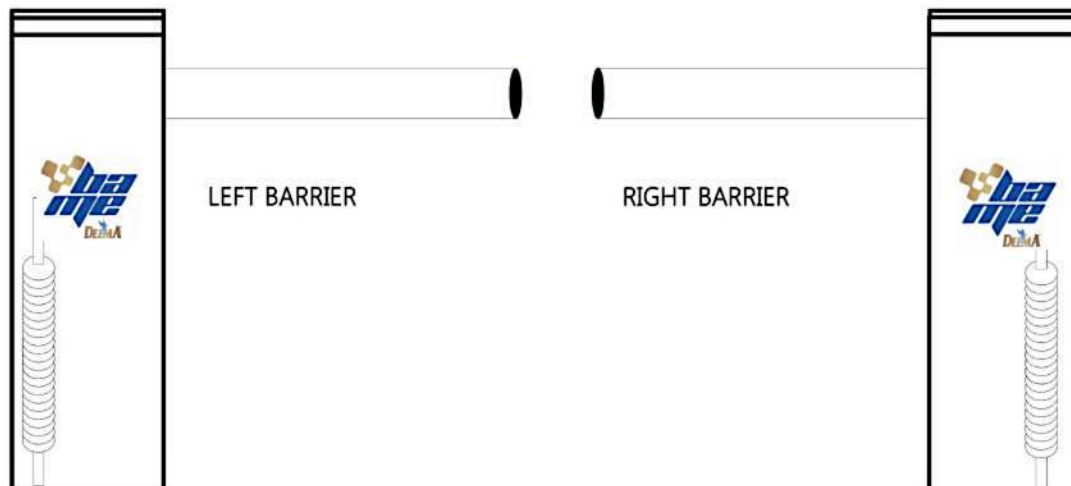


FIG. 4

FIG.5



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Emergency unlocking system:



WARNING: DO NOT UNLOCK THE BARRIER WITHOUT THE ARM. THERE IS A MORTAL DANGER IF THE BARRIER IS UNLOCKED WITHOUT THE ARM.

1. Open the protection panel using the key in the kit (fig. 6)
2. On the motor is present an unlocking knob (fig. 7)
3. To unlock the barrier turn the knob clockwise (fig. 7)
4. To lock the barrier turn the knob anticlockwise
5. Replace the protection panel and lock it with the key



FIG. 6



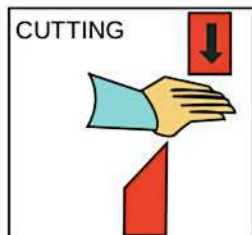
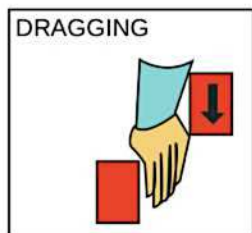
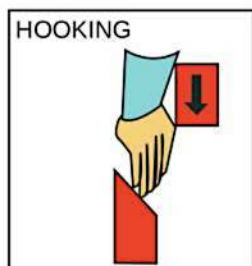
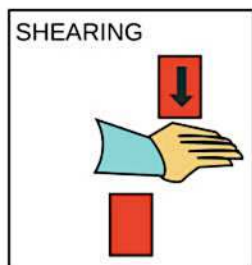
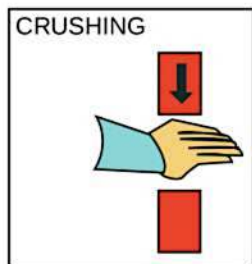
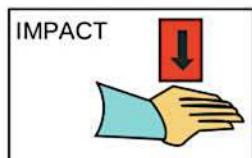
FIG. 7

ATTENTION: THIS SHEET MUST BE CONSIGNED TO THE CLIENT

ATTENTION: THE CUSTOMER MUST KEEP THIS SHEET TOGETHER WITH THE UNLOCKING KEY IN A SAFE PLACE. THE PLACE WHERE THE KEY IS STORED MUST BE ACCESSIBLE ALSO IN CASE OF POWER FAILURE

ATTENTION: INFORM ALSO OTHER USERS OF THE AUTOMATION ABOUT THE PLACE WHERE THE KEY AND THIS SHEET ARE STORED.

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Safety checks

Checks:

- The ruggedness and the fastening of the structure is adequate.
- The swing can not fall in the ground.
- The threshold of the gate it's modeled not to create hindrance.
- Limit switch are installed and verified.
- The moving parts are equipped with adequate protections installed in compliance with the safety standards.
- The torque regulation can be changed only by specialized personnel, operating on the control board in compliance with the instructions from the manufacturer.
- The gate with the motor is supplied with an emergency release system.
- The client have been supplied with information about the emergency release system.

Possible risks:

impact	cutting	lifting	shearing
dragging		hooking	crushing

Mark for each risk the solution adopted.

(Possible solutions : 1-only manual operations, 2-sensitive edges, 3-photocells, 4-swing stoppers, 5-torque limiter, 6-surface modelling, 7-footboards, 8-radar, 9-acoustic signal, 10-visual signal, 11-markings, 12-isolation, 13-protection net, 14-....., 15-.....)

Electrical risks:

- CE markings are present in compliance with the directive BT(73/23/CEE).
- All electrical connections are made in compliance with standard specifications, also according to the manufacturer manual.
- The remote controls are compliant with the directive R&TTE(99/5/CE).
- Components are marked CE, according to directive EMC(89/336/CEE).

Safety and reliability of the motor and control devices:

- Controls are verified with the movement of the gate, according with the manufacturer manual.
- All the control device are installed in an accesible position and they are easily visible.
- The motor is compliant with the standard specification EN12453.
- All the presence and motion sensor are working according with the standard specification EN12445.

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NEVER ENTER THE OPERATING FIELD OF THE ARM DURING INSTALLATION OR NORMAL USE.

WARNING:
IF USING A DIFFERENT ARM FROM THE ONE SUPPLIED BY BAME, PLEASE CONSIDER THE WEIGHT SCHEME AS SHOWN IN THE FOLLOWING PAGE. IT IS ADVISED TO USE ALWAYS BAME ORIGINAL PROFILES.



Arm fixing

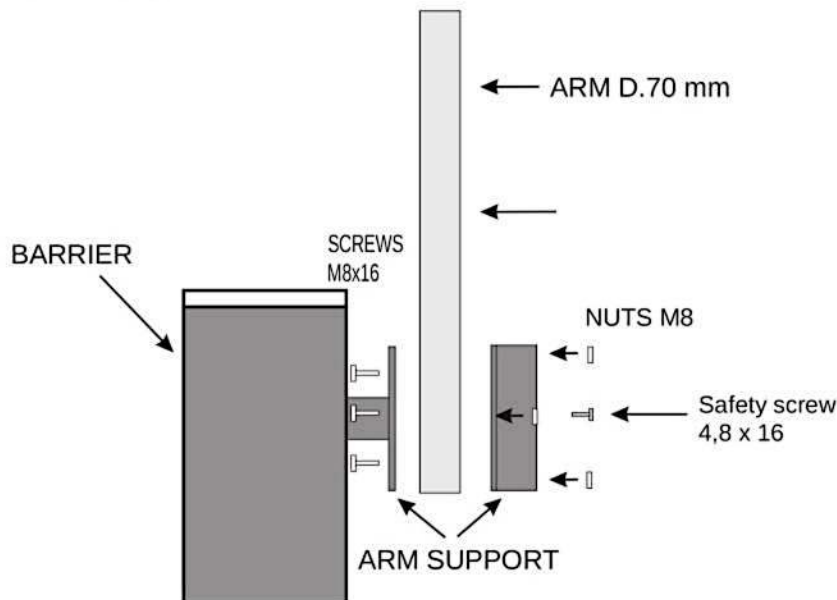


FIG.8

1. Fix the first element of the arm between the two arm supports tightening the M8x16 screws and the M8 self-locking nuts
2. Unlock the motor (page 5)
3. Put down the arm carefully
4. Lock the motor
5. Release the arm and make sure that the arm does not go up by itself
6. Add other pieces of the arm as shown in the following page
7. Unlock the motor and check if the arm movement is uniform
8. Adjust the spring tension (pag.11)

Arm removal

1. Move the arm in the opening position and lock the motor
2. Loosen the screws of the arm support and let the arm slide down on the floor
3. Remove the arm support keeping the arm in vertical position
4. Put the arm on the floor carefully

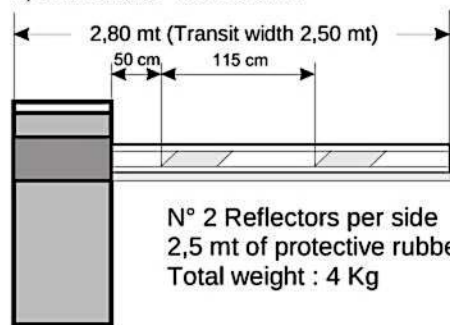
DANGER OF FATAL INJURIES

WARNING: NEVER REMOVE THE ARM IN HORIZONTAL POSITION WITH THE SPRING UNDER TENSION

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Assembling the aluminium arm

2,5 mt oval or Round arm

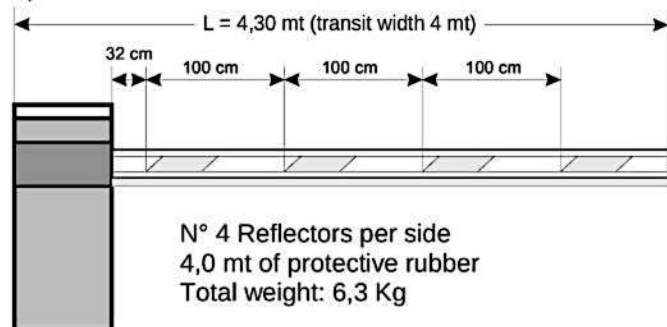


Protective rubber installation

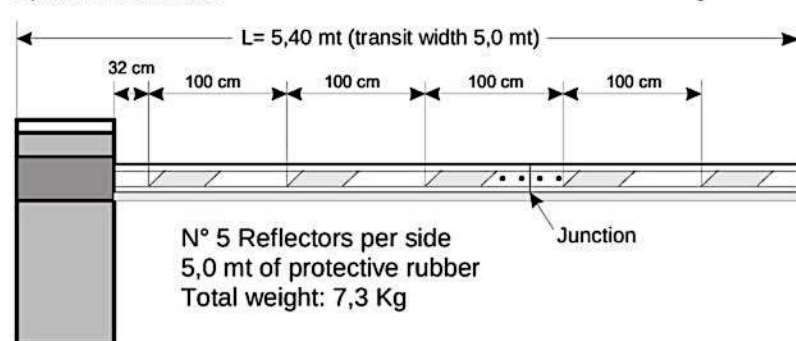


Fold the protective rubber and insert the two extremities inside the preformed channels on the arm
Lubricate lightly to facilitate the operation

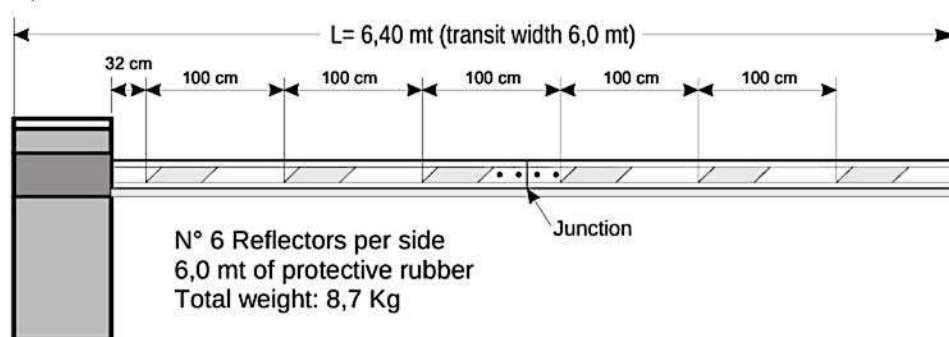
4,0 mt Oval or Round arm



5,0 mt Round arm

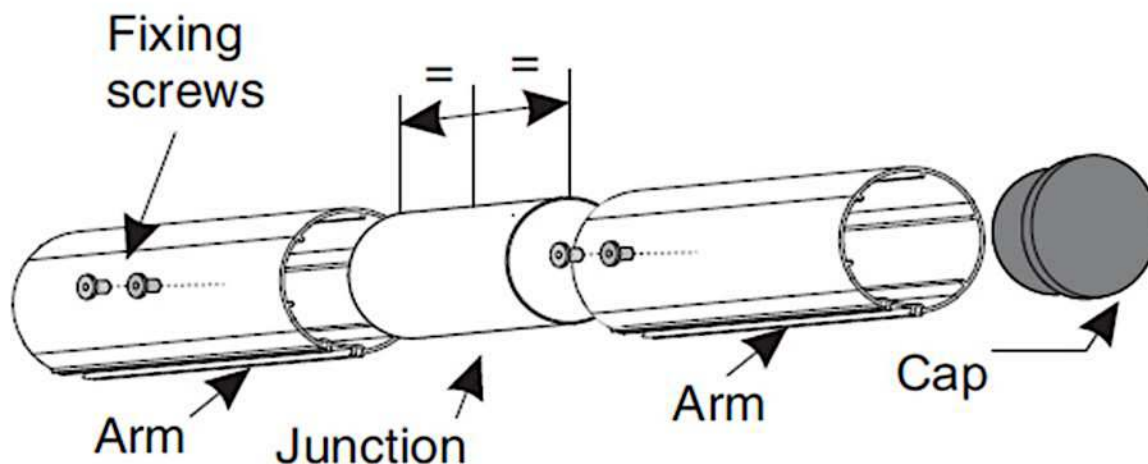


6,0 mt Round arm

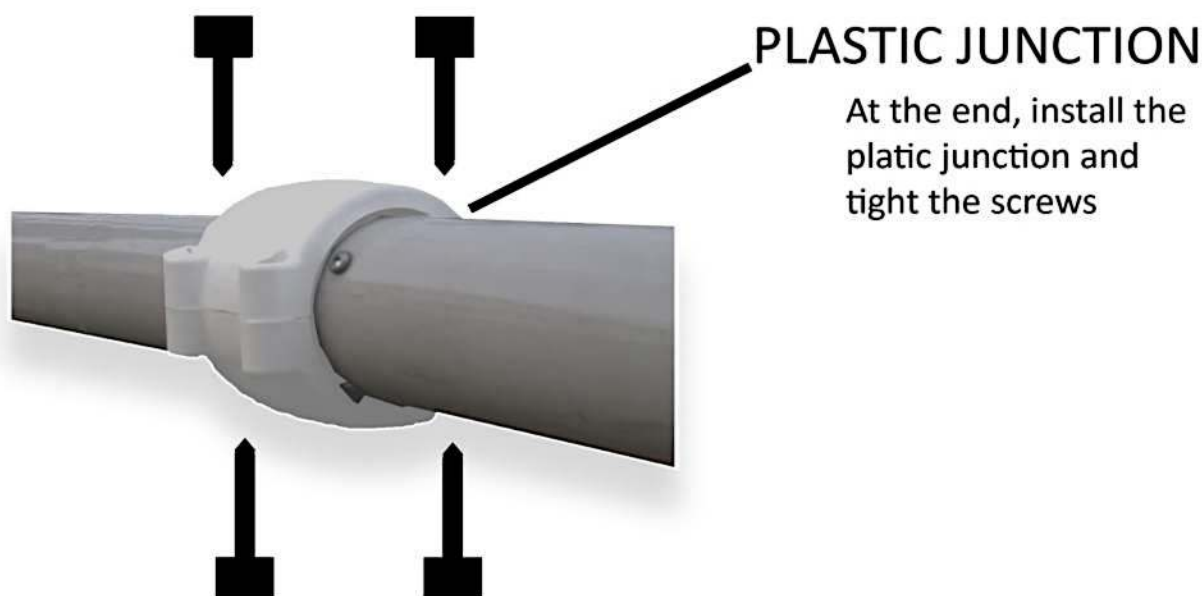


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ASSEMBLING THE ARM JUNCTION



Insert half junction at the end of the arm and fix it with the screws.
Insert the second part of the arm by care to match the lower channels.
Fix with the screws and insert the cap.



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Adjusting limit switches and rubber stoppers

Adjust the rubber stoppers and the switches so that the arm is horizontal when in closed position and vertical when in open position.

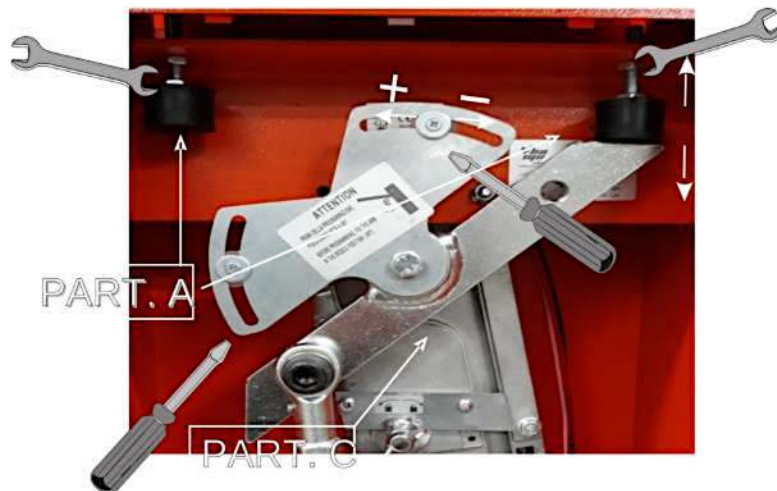
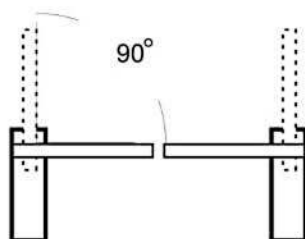


FIG.10

Adjusting the spring tension:

After having installed the arm on the barrier is mandatory to adjust the spring tension :

- 1.Unlock the reducer
- 2.Set the arm in the opening position
- 3.Lock the reducer
- 4.Turning the tensioning nut, tension the spring until obtaining the best setting

Verification of the best setting :

- 1.Unlock the reducer
- 2.Carefully bring the arm in the closed position
- 3.Release the arm
- 4.If the spring is tensioned correctly the arm should open and stop at about 30° degree



The spring should be tensioned during the entire travel of the arm without any play



The spring tensioning should be checked after 15 days from the installation

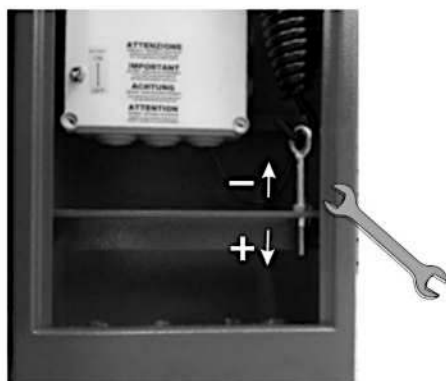
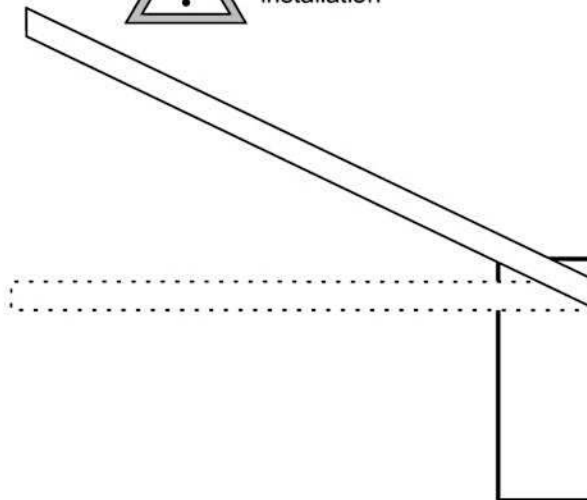


FIG.11





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