

MANUALE D'USO E MANUTENZIONE
USE AND MAINTENANCE MANUAL
BEDIENUNGS - UND WARTUNGSANLEITUNG
MANUEL D'EMPLOI ET D'ENTRETIEN
MANUAL DE USO Y MANTENIMIENTO

EASY

Automatismo per Cancelli a Battente - Uso Residenziale/Condominiale

Swing Gate Operator - Residential/Communities

Drehtorantrieb für Privat und Gewerbe

Automatisme pour Portails à Battant – Usage Résidentiel/Intensif

Accionador para Puertas Batientes – Uso Residencial/Comunidades



D_MNLOEASY 22-10-2013 - Rev.21

IT - Istruzioni originali



MADE IN ITALY



DIMENSIONS OF GEARMOTOR AND OPERATING LIMITS (fig. 1)

PRELIMINARY CHECKS

- Read the instructions carefully.
- Before starting installation, make sure that the gate structure is suitable and sufficiently solid.
- Make sure the gate does not stick at any point.

Note: for complete safety, the mechanical stops with rubber cap (floor stops) must be fitted in opening and closing of the gate, as shown in fig 24-25.

APPLYING THE FIXING PLATE AND BRACKET

- Fix the motor plate to the post (fig. 3) at a minimum distance of 100 mm from ground level (fig. 4).
- Fix (or weld) the bracket anchoring the hinged arm to the gate leaf (fig. 3) according the indicated measurements (fig. 4).

INSTALLATION

Remove the two self-threading screws (fig. 5).

Pull up the cover and remove (fig. 6).

Fit the gearmotor into the 4 holes in the fixing plate and secure it with the two supplied nuts and bolts (fig. 7).



Place the control unit (external versions) in the immediate vicinity of the motors.



Be careful not to run cables for auxiliary devices inside raceways housing other cables supplying power to large loads or lights with electronic starters.



In the event control pushbuttons or indicator lights are installed inside homes or offices several metres from the actual control unit, it is advisable to decouple the signal by means of a relay in order to avoid induced interference.

ATTACHING THE HINGED ARM

Fit the straight arm into the output shaft of the gearmotor and fix it with the pin, the screw and relative washer. Put together and secure the two arms as shown in fig. 9. Release the gearmotor (turn the key anticlockwise and turn the release lever outwards - fig. 8). Fix the curved arm to the bracket fixed to the leaf with the supplied nut and bolt and make sure it moves freely. For right-hand applications, see fig. 10.

ADJUSTING THE MICRO-SWITCHES (EASY - EASYQR) THAT STOP THE GATE FROM MOVING DURING CLOSING AND OPENING

Adjusting the micro-switches with the gearmotor installed to the left (view from inside).

Opening: release the gearmotor (fig. 12) and move the leaf to the required open position (fig. 13). Turn the opening cam clockwise until the micro-switch trips and secure it with the central screw (fig. 14).

Closing: move the leaf to the required closed position (fig. 15). Turn the closing cam anticlockwise until the micro-switch trips and secure it with the central screw (fig. 16).

Adjusting the micro-switches with the gearmotor installed to the right (view from inside).

Closing: release the gearmotor (fig. 17) and move the leaf to the required open position (fig. 18). Turn the closing cam clockwise until the micro-switch trips and secure it with the central screw (fig. 19).

Opening: move the leaf to the required open position (fig. 20). Turn the opening cam anticlockwise until the micro-switch trips and secure it with the central screw (fig. 21).

FINAL PHASES

After completing installation, electrical connections and adjustments, block the gearmotor again (fig. 22), put on the cover and fix it with the two self-threading screws (fig. 23).

USE

The EASY and EASY 12 gearmotors have been designed to move vertical swing gates with leafs not longer than 2.3 m and weighing not more than 300 Kg.

It is strictly forbidden to use cleaning equipment, such as high pressure water cleaners, and/or spray the automatic system with jets of water in general.

It is expressly **forbidden to use the device for any other purposes or under any other circumstances other than those mentioned.** The electronic control unit (**which must be fitted with an electric clutch**) allows the following functions to be selected:

automatic : a command impulse opens and shuts the gate

semiautomatic : a command impulse opens or shuts the gate.

In the event of a power failure, the gate may be moved manually by activating the "manual release" device. Mod. EASY 12 can be powered by a buffer battery and is able to perform at least 15 complete cycles (open and close) on its own.

This is an electrically powered automatic device and should therefore be used with care. In particular:

- do not touch with wet hands and/or wet or bare feet;
- disconnect the power supply before opening the control box and/or the actuator;
- do not pull the plug out by its cable;
- do not touch the motor unless you are certain it is cool;
- only operate the gate when it is completely visible;
- do not approach the gate while it is moving;
- do not allow children or animals to play near the gate;
- do not allow children or disabled people to use the remote control or other operating devices;
- carry out routine maintenance;
- in the case of a fault, disconnect the power supply and only move the gate if it is possible and safe to do so. Do not touch the gate and call in an authorised technician.

WIND PRESSURE

NB: If the gearmotor is installed on solid swing gates in a windy area, max. motor torque **must always be calibrated to less** than 15 Kg (measured on the closing edge – as established by prEN 13241 and prEN 12635). If torque is calibrated to exceed this safety threshold, TAU declines all responsibility for damage to people.

MAINTENANCE

The EASY gearmotors need very little maintenance. However, as the gate must be in good working order for them to work properly, the operations required to keep it in perfect condition are described below.

ATTENTION: no-one, except for the maintenance man, who must be a specialised technician, must be able to use the automatic system during maintenance. Switch off the mains power supply to eliminate the risk of electrocution. If the power supply must be left on for certain operations, each control device should be checked or disabled (remote controls, push button strips, etc.) except for the one used by the maintenance man.

Routine maintenance

- Each of the following operations must be carried out when necessary and always every 6 months for domestic use (approx. 3000 work cycles) and every 2 months for intensive use such as blocks of flats (always 3000 work cycles).

Gate

- lubricate and grease the hinges of the gate.

Automation system

- Keep oiled the jointed arm's pin, the boss that works coupled to the motor output shaft and all parts subject to wear due to friction.
- check how the safety devices are working (pneumatic edge, torque limiter, etc.).

Extraordinary maintenance or breaks

- If major work on mechanical and/or electromechanical parts must be carried out, the gear motor should be removed for repair in the workshop by the manufacturer's or other authorised technicians.

EASY INSTALLATION

1 - Gearmotor

Accessories:

2- Control panel

3 - Radio receiver

4 - Aerial

5 - Flashing light

6 - Key selector

7 - Safety photocells

8 - Posts for photocells

9 - Ground-mounted gate stop in open position

10 - Electric lock

EASY 12 INSTALLATION

1 - Gearmotor

Accessories:

2- Control panel

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9 - Ground-mounted gate stop in open position

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The distance between the control unit and the motor must not exceed 10 – 12 m.

**MANUFACTURER'S DECLARATION OF INCORPORATION
(in accordance with European Directive 2006/42/EC App. II.B)**

Manufacturer: TAU S.r.l.
Address: Via E. Fermi, 43
36066 Sandrigo (Vi)
ITALY

Declares under its sole responsibility, that the product: *Electromechanical actuator*
designed for automatic movement of: *Swing Gates*
for use in a: *Residential / Communities*
complete with: *Electronic control unit and radioreceiver*

Model: *EASY*
Type: *EASY / EASYQR / EASY12 / EASY12QR*
Serial number: *SEE SILVER LABEL*
Commercial name: *AUTOMATION FOR SWING GATES*

Has been produced for incorporation on an access point (*swing gate*) or for assembly with other devices used to move such an access point, to constitute a machine in accordance with the Machinery Directive 2006/42/EC.

Also declares that this product complies with the essential safety requirements of the following EEC directives:

- **2006/95/EC Low Voltage Directive**
- **2004/108/EC Electromagnetic Compatibility Directive**

and, where required, with the Directive:

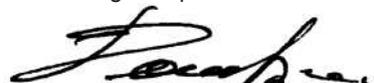
- **1999/5/CE Radio equipment and telecommunications terminal equipment**

Also declares that ***it is not permitted to start up the machine*** until the machine in which it is incorporated or of which it will be a component has been identified with the relative declaration of conformity with the provisions of Directive 2006/42/EC.

The manufacturer undertakes to provide, on sufficiently motivated request by national authorities, all information pertinent to the quasi-machinery.

Sandrigo, 31/03/2010

Legal Representative



Bruno Danieli

Name and address of person authorised to draw up all pertinent technical documentation:

Loris Virgilio Danieli - via E. Fermi, 43 - 36066 Sandrigo (Vi) Italy

INSTRUCTIONS AND WARNINGS FOR AUTOMATIC SYSTEM USERS

CONGRATULATIONS on choosing a Tau product for your automation system!

Tau S.r.l. produces components for automatic gates, doors, barriers and shutters. These include gear motors, control units, radio control devices, flashing lights, photocells and accessories.

Tau products are exclusively made with top quality materials and processes and, as a company, we constantly research and develop innovative solutions in order to make our equipment increasingly easier to use. We also pay great attention to all details (technology, appearance and ergonomics). The extensive Tau range makes it possible for your fitter to choose the product which best meets your requirements.

Tau, however, does not produce your automated system as this is the outcome of a process of analysis, evaluation, choice of materials and installation performed by your fitter.

Each automated system is unique, therefore, and only your fitter has the experience and professionalism required to create a system that is tailor-made to your requirements, featuring long-term safety and reliability, and, above all, professionally installed and compliant with current regulations.

An automated system is handy to have as well as being a valid security system. Just a few, simple operations are required to ensure it lasts for years.

Even if your automated system satisfies regulatory safety standards, this does not eliminate "residue risks", that is, the possibility of dangerous situations being generated, usually due to irresponsible and/or incorrect use. For this reason we would like to give you some suggestions on how to avoid these risks:

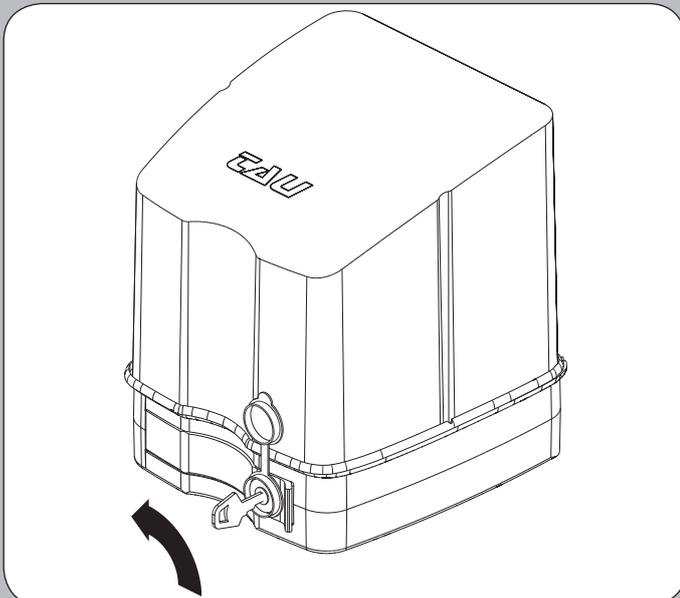
- **Before using the system for the first time:** ask your fitter to explain how residue risks can arise and read the instructions and warnings in the user handbook that your fitter will have given you. Keep this manual for future use and, if you should ever sell your automated system, hand it over to the new owner.
- **Your automated system carries out your commands to the letter:** irresponsible and/or incorrect use may cause it to become dangerous. Do not use the system if people, animals and/or objects enter its operating area.
- **IT IS NOT A TOY!** Make sure children do not play near the system and keep the remote control device out of their reach.
- **Faults:** If you notice any abnormal behaviour, disconnect the system from the power supply immediately and perform the manual release operation (see figure). Do not attempt to repair the door but call in your fitter: the system will operate manually as it did before installation.
- **Maintenance:** to ensure long life and totally safe operation, the system required routine maintenance, just like any other piece of machinery. Establish maintenance times together with your fitter. Tau recommends a frequency of 6 months for normal domestic installations but this may vary depending on the intensity of use (always every 3000 work cycles). It is strictly forbidden to use cleaning equipment, such as high pressure water cleaners, and/or spray the automatic system with jets of water in general.

N.B.: All controls, maintenance work and/or repairs may only be carried out by qualified personnel.

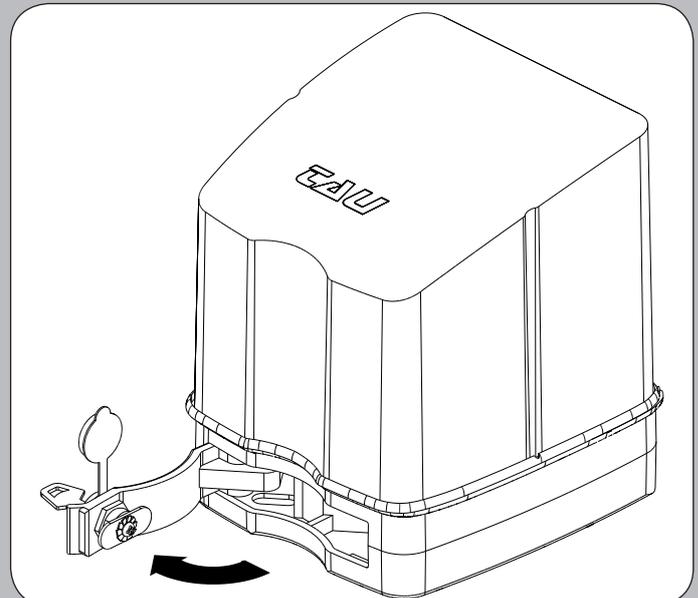
- Do not modify the plant or the relative programming and adjustment parameters: your fitter will see to that.

N.B. Final testing, routine maintenance and any repairs must be documented by the fitter (in the relative spaces) and such documents kept by the owner of the system (IF THE DOCUMENTS ARE NOT PRODUCED, THE WARRANTY WILL EXPIRE).

- **Disposal:** At the end of system life, make sure that it is demolished by qualified personnel and that the materials are recycled or disposed of according to local regulations.



In the event of a blackout, remove the cover of the lock, insert the relative key and turn as shown in the figure.



Turn the lever 90° in the direction shown in the figure in order to manually control the gate. Carry out the above procedures in reverse order to reset automatic operation.

The manual manoeuvre must ONLY be done with the door stopped and AFTER disconnecting power from the electrical control unit.

N.B.: if your remote control unit (if supplied) starts working badly after a time, or does not work at all, the batteries may be flat (they can last from several months to 2/3 years depending on what type is used). This can be seen from the fact that the transmission confirmation LED gets dimmer or only turns on for brief moments. Before contacting your fitter, try exchanging the battery with one from a good transmitter: if this is the reason for the fault, simply replace the battery with another one of the same type.

If you wish to add a new automated system to your house, contact your fitter and we at Tau to have the advice of a specialist, the most developed products on the market, best operation and maximum automation compatibility.

Thank you for reading these suggestions and we trust you are fully satisfied with your new system: please contact your fitter for any further requirements.

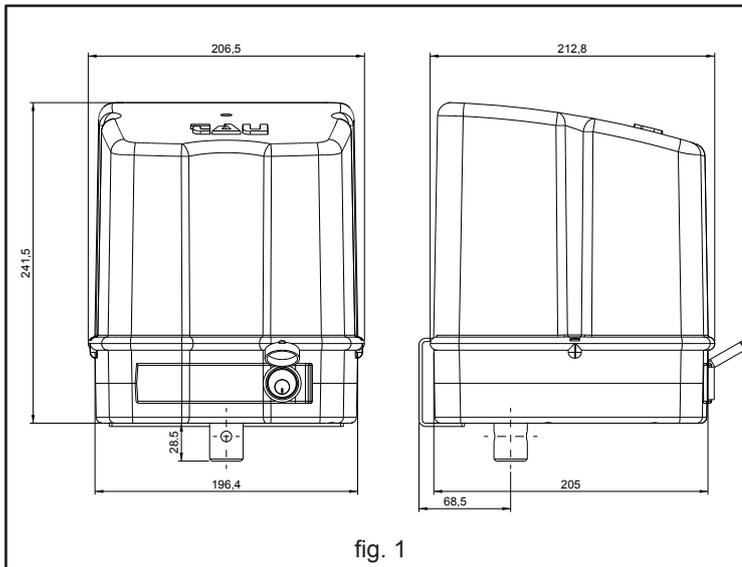


fig. 1

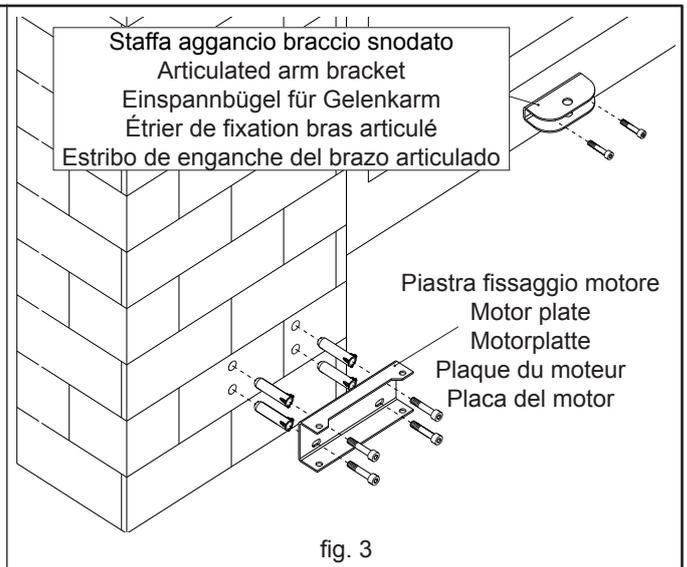
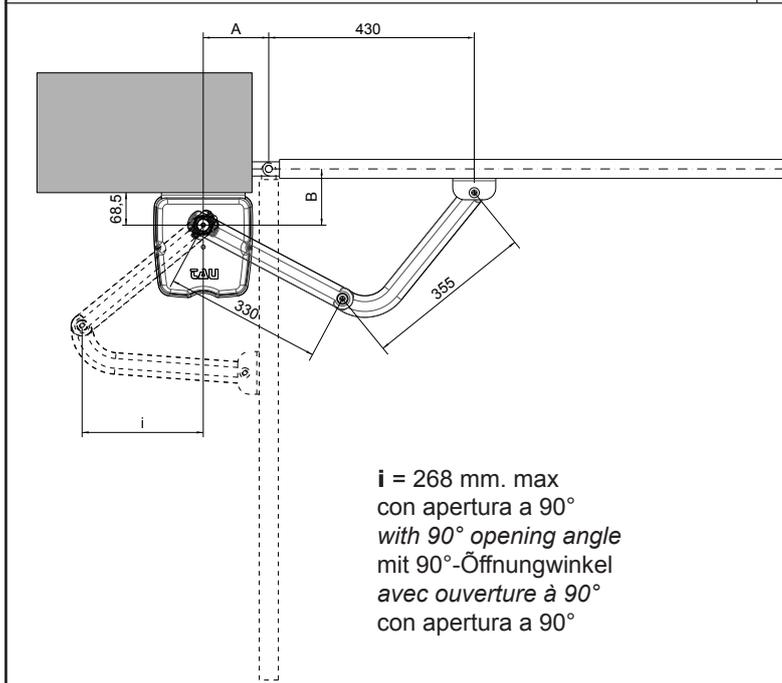


fig. 3



i = 268 mm. max
 con apertura a 90°
 with 90° opening angle
 mit 90°-Öffnungswinkel
 avec ouverture à 90°
 con apertura a 90°

Angolo di apertura Opening angle Öffnungswinkel Angle d'ouverture Ángulo de apertura	A*	B*
90°	137 + 245	0
90°	137 + 235	50
90°	137 + 230	75
90°	137 + 225	100
90°	137 + 220	125
90°	137 + 210	150
90°	137 + 200	175
90°	137 + 190	200
90°	137 + 175	225
90°	137 + 160	250
90°	137 + 145	275
110°	190 + 240	0
110°	205 + 235	50
110°	215 + 230	75
110°	225	100

- *I - Spessore del cancello considerato: 40 mm
- *GB - Thickness of the considered gate: 40 mm
- *D - Stärke des betrachteten Tors: 40 mm
- *F - Epaisseur du portail considéré: 40 mm
- *E - Espesor de la cancela tomada en consideración: 40 mm

fig. 2

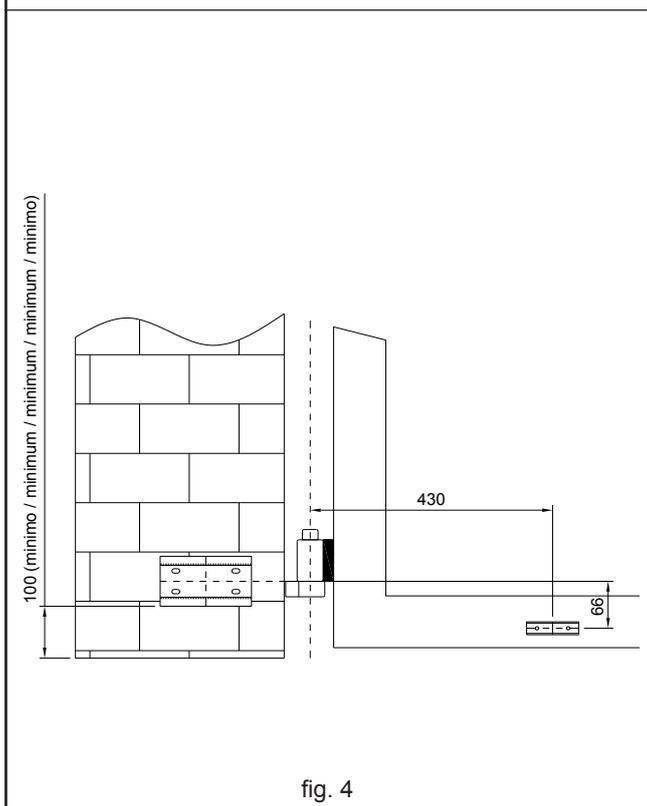


fig. 4

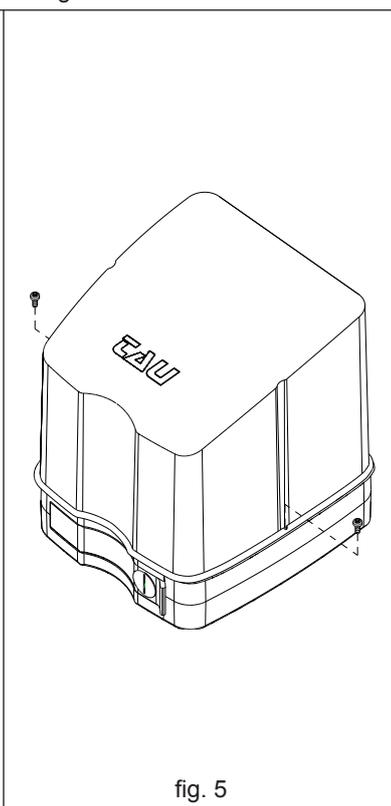


fig. 5

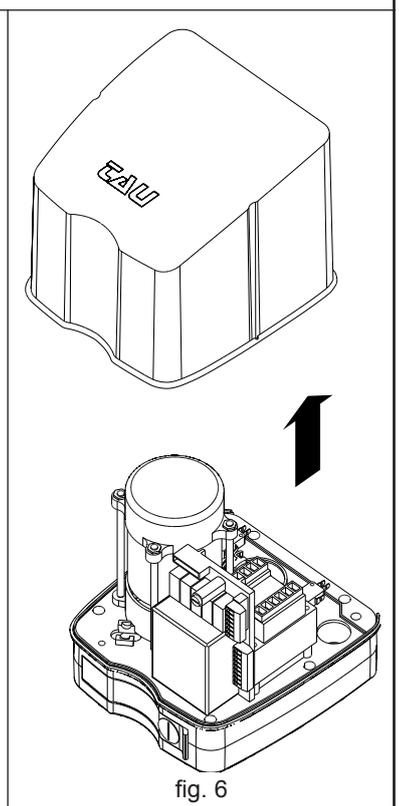


fig. 6

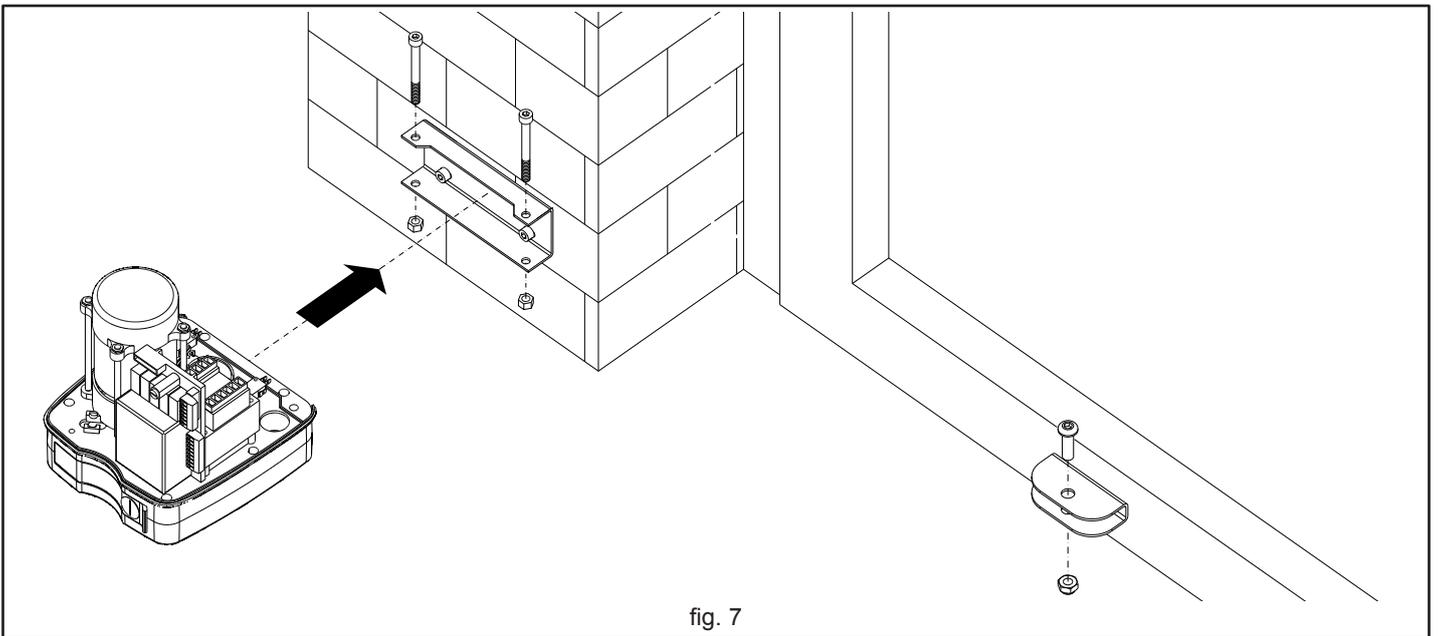


fig. 7

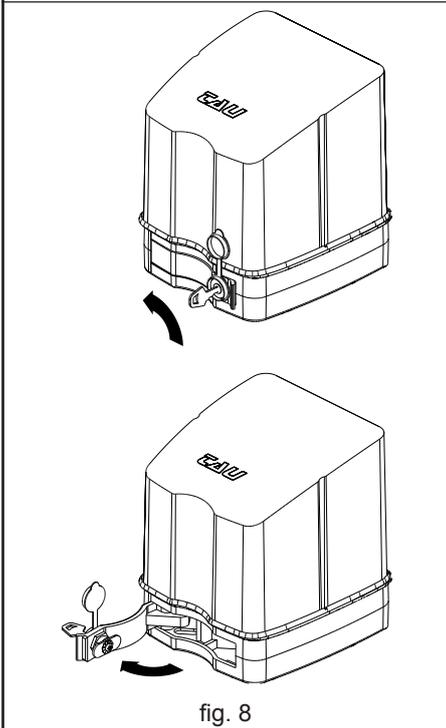


fig. 8

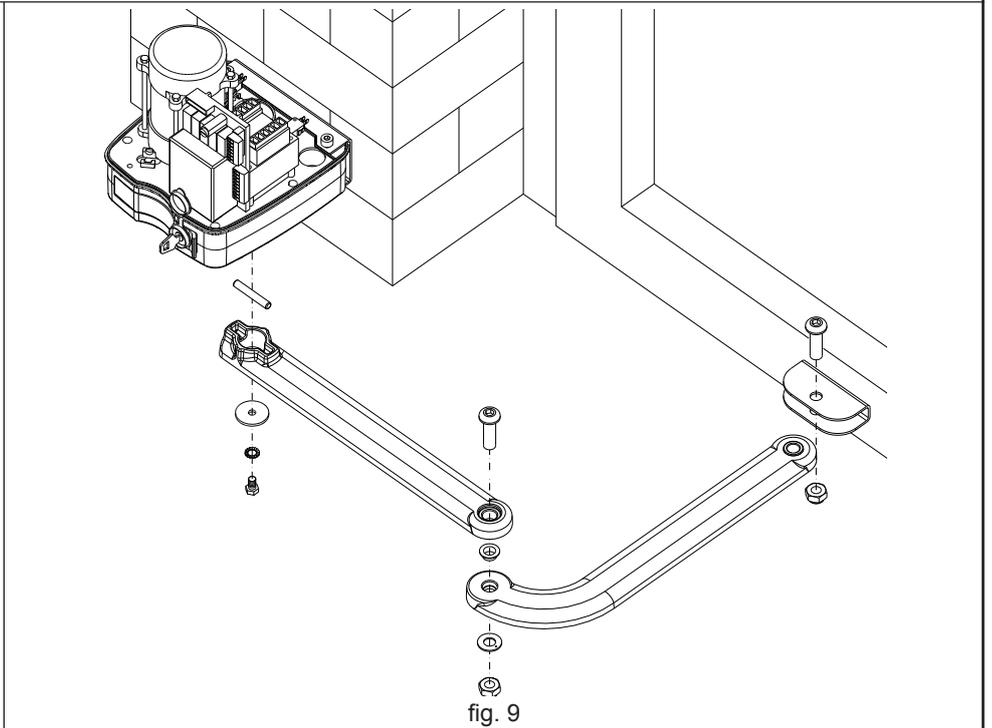


fig. 9

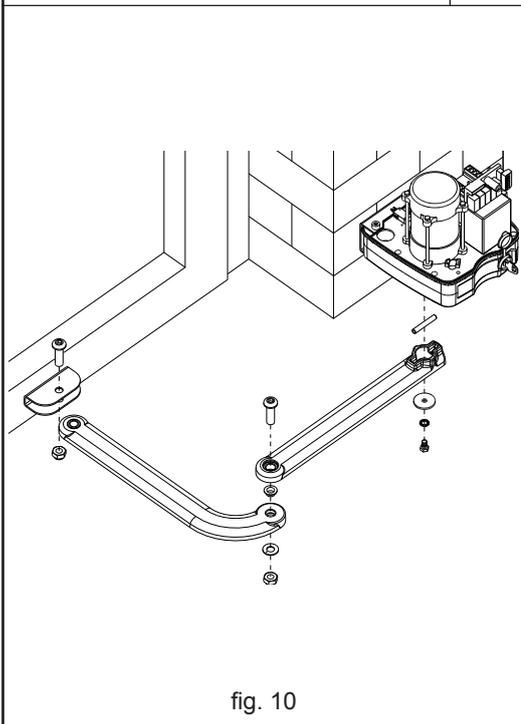


fig. 10

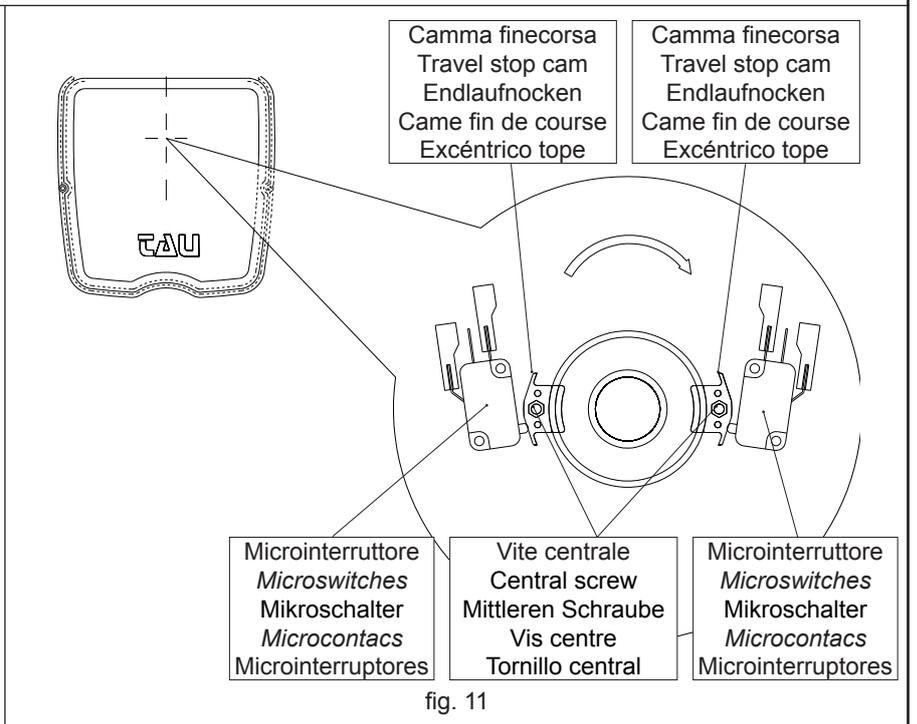
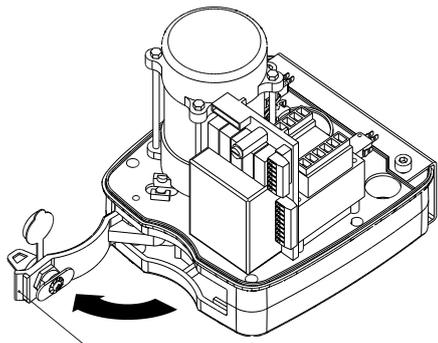


fig. 11



Leva di sblocco
Release lever
Entriegelungshebel
Lever de déblocage
Palanca de desbloqueo

fig. 12

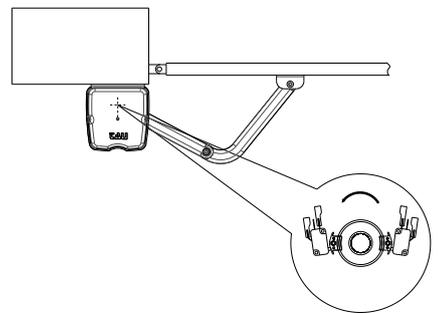


fig. 15

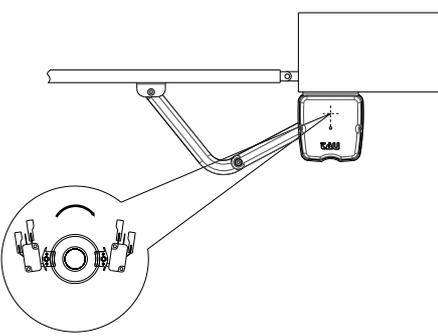


fig. 18

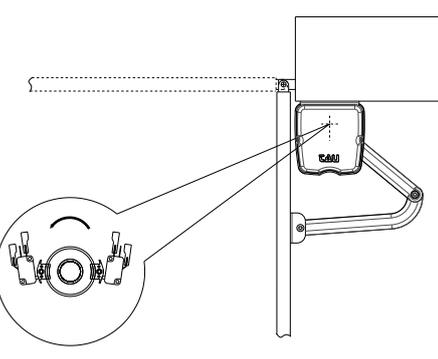


fig. 20

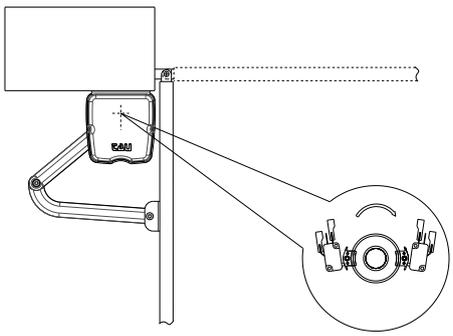
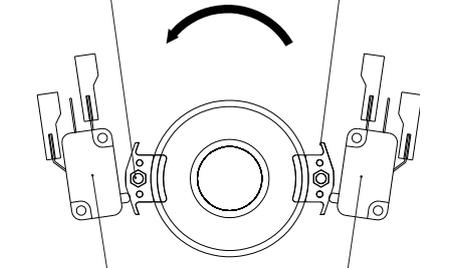


fig. 13

Camma chiusura
Closing cam
Schließnocken
Come fermeture
Excéntrico cierre

Vite centrale
Central screw
Mittleren Schraube
Vis centre
Tornillo central



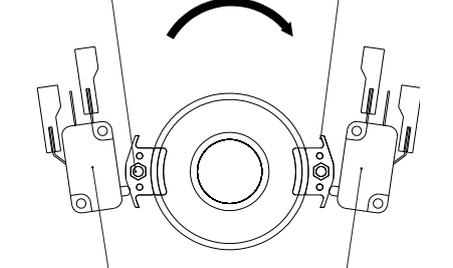
Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

fig. 16

Vite centrale
Central screw
Mittleren Schraube
Vis centre
Tornillo central

Camma apertura
Opening cam
Öffnungsnocken
Come ouverture
Excéntrico apertura



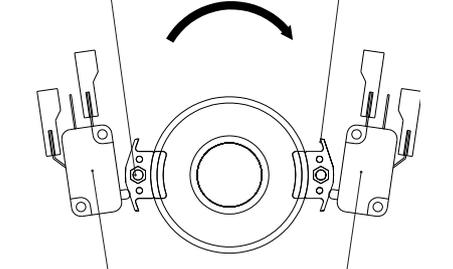
Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

fig. 19

Vite centrale
Central screw
Mittleren Schraube
Vis centre
Tornillo central

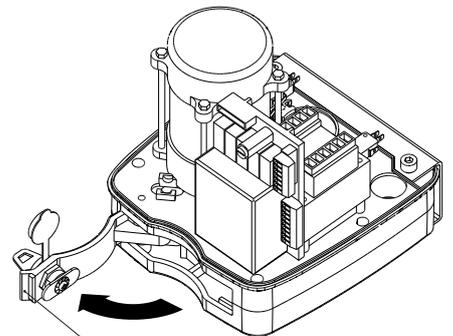
Camma apertura
Opening cam
Öffnungsnocken
Come ouverture
Excéntrico apertura



Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

fig. 14

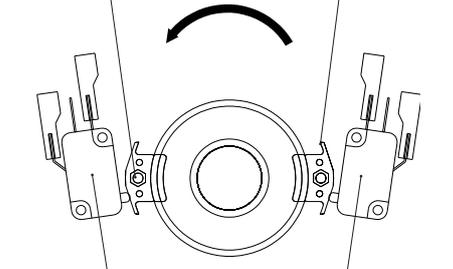


Leva di sblocco
Release lever
Entriegelungshebel
Lever de déblocage
Palanca de desbloqueo

fig. 17

Camma chiusura
Closing cam
Schließnocken
Come fermeture
Excéntrico cierre

Vite centrale
Central screw
Mittleren Schraube
Vis centre
Tornillo central



Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

Microinterruttore
Microswitches
Mikroschalter
Microcontacs
Microinterruptores

fig. 21

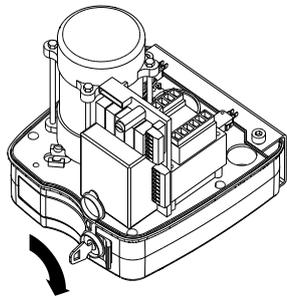
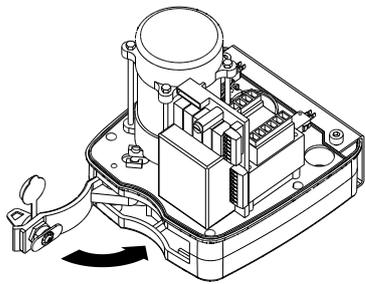


fig. 22

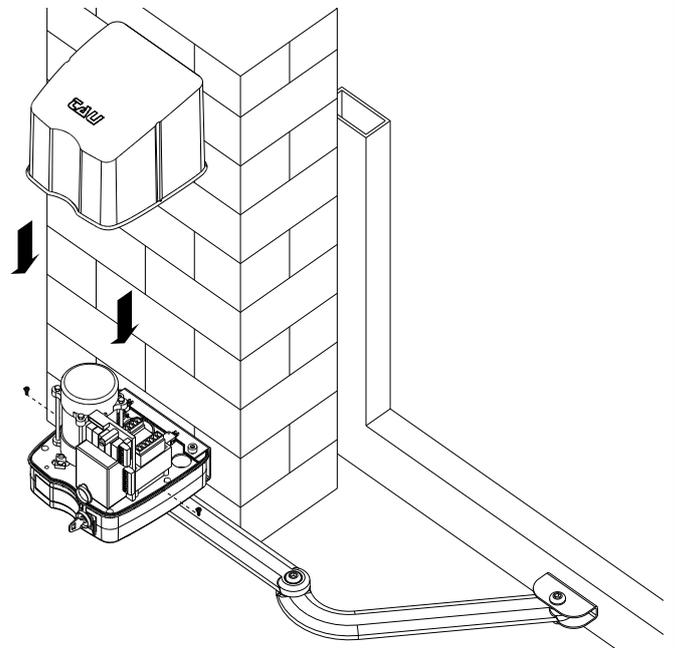


fig. 23

EASY12 - EASY12QR

EASY - EASYQR

a	2 x 2,5 mm ² + 3 x 0,5 mm ²	4 x 1,5 mm ²
b	2 x 1 mm ² + 1 RG58	2 x 1 mm ² + 1 RG58
c	3 x 0,5 mm ²	3 x 0,5 mm ²
d	2 x 0,5 mm ²	2 x 0,5 mm ²
e	4 x 0,5 mm ²	4 x 0,5 mm ²
f	2 x 1 mm ²	2 x 1 mm ²
g	3 x 1,5 mm ²	3 x 1,5 mm ²

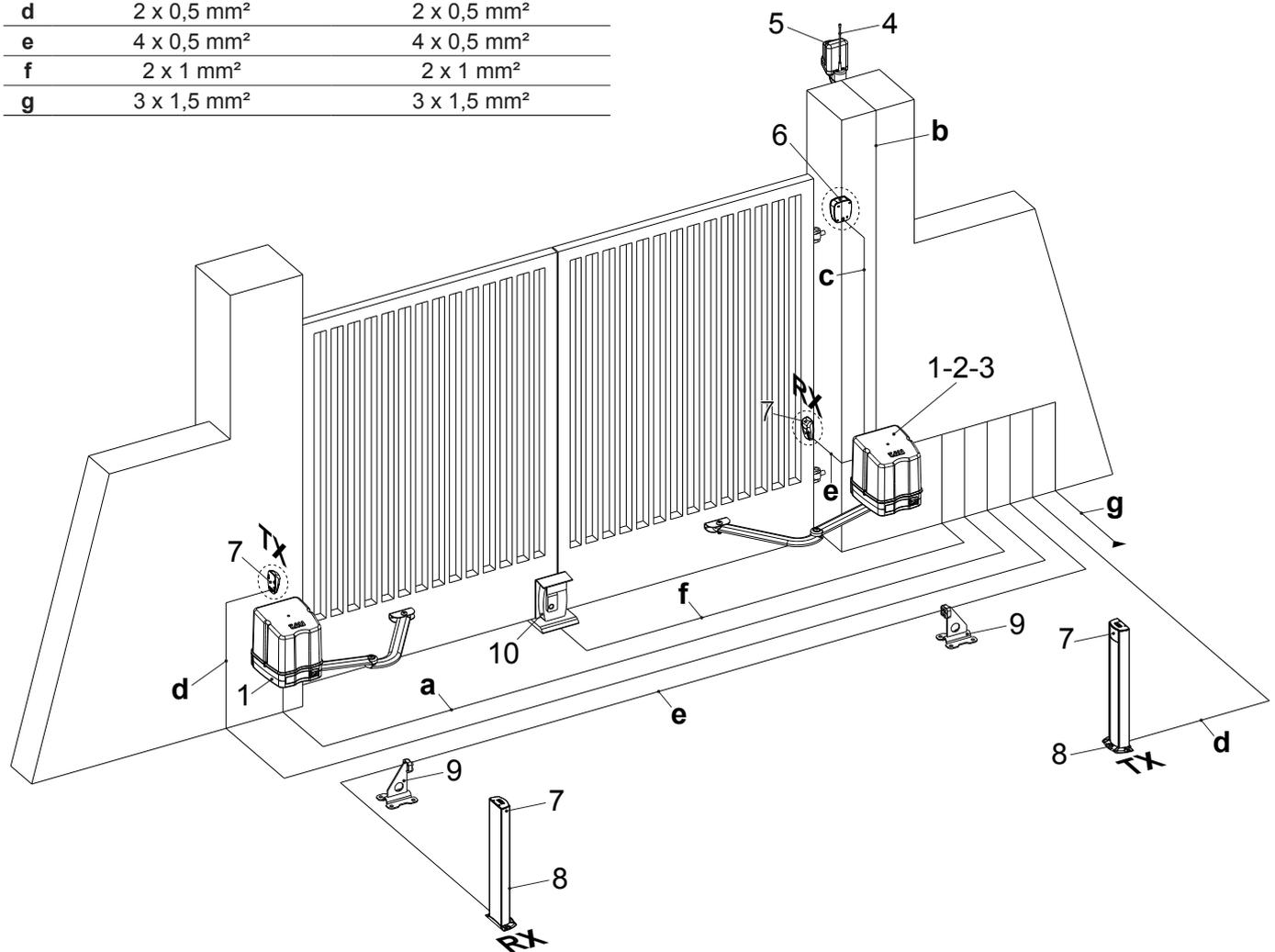


fig. 24

SELF INSTALL - NEED TECHNICAL ASSISTANCE?

OPTION 1: DIRECT WITH THE SERVICE DESK – QUICKEST AND MOST EFFECTIVE METHOD

Submit your enquiry direct with the service desk at – service@automaticsolutions.com.au

The service desk has the most experienced staff in Australia to help with your problem but they need your help.

- Describe your problem in detail and as clearly as possible. Don't forget to include a telephone number.
- Be certain to detail which model or models of you are working with.
- Send photos of the installation – they love photos. The people at the service desk are good but they are even better when they can see the installation. Send photos of the overall scene so they can see the entire installation. Also send photos of the wiring to the control board and any other part of the installation you think is relevant.
- Send video if appropriate. Smartphone's these days take remarkably good video in small file sizes which can be emailed in a moment. If your problem needs a video to show the issue please feel free to send it.

**NOTE: THIS IS BY FAR THE FASTEST AND MOST SUCCESSFUL WAY TO SOLVE YOUR PROBLEM
PHOTOS AND VIDEOS ARE THE NEXT BEST THING TO BEING THERE**

OPTION 2: LODGE YOUR ENQUIRY LOCALLY - SLOWER BUT CAN STILL BE EFFECTIVE

Make contact with the store of purchase. Branch staffs are typically not technicians and dependent on their length of service will have varying degrees of technical knowledge. If they cannot help however they will certainly either source help locally from their technicians or make contact with the service technicians on your behalf.

OPTION 3: SERVICE CALL WITH AUTOMATIC SOLUTIONS TECHNICIAN – SLOWEST METHOD

If you fall within the local branch service area it may be possible to book a local technician to look at your installation. Wait times will vary dependent on local workloads. The cost is a service fee which includes the first half hour and the hourly rate thereafter. If any Automatic Solutions provided parts are found to be defective and within warranty these will be provided free of charge.

(NOTE: If you suspect that any parts are defective and within warranty you may wish to consider option 4)

A note on this option: If you decide on this option you will be asked to sign an "authorisation to proceed" which will provide legal authority and payment security. This form has three options available of which only the first two are available to you. The third option is for warranty repairs only for full install customers. Self install customers requiring warranty only service need to refer to option four below.

IMPORTANT: IN SHORT THIS OPTION WILL INCUR CHARGES

OPTION 4: RETURN THE PRODUCT IF BELIEVED TO BE FAULTY

As a self install customer who has purchased product if you believe the product to be faulty rather than an installation or site problem you have the option of returning the product for evaluation and to exercise your right to a replacement, repair or refund as applicable. All returned product is forwarded immediately to the service technicians for evaluation and response. There are two main methods available to return product –

- Direct to the service centre – this is the quickest method as it cuts out the branch delay
- Via the branch of purchase – slower because of the delay at the branch

When choosing this option you need to complete a product return form. This form gives you all the information on procedure involved and where to send to. These are available at the branch of purchase, can be emailed to you (contact your branch), or available here - <http://automaticsolutions.com.au/page/warranty.php>