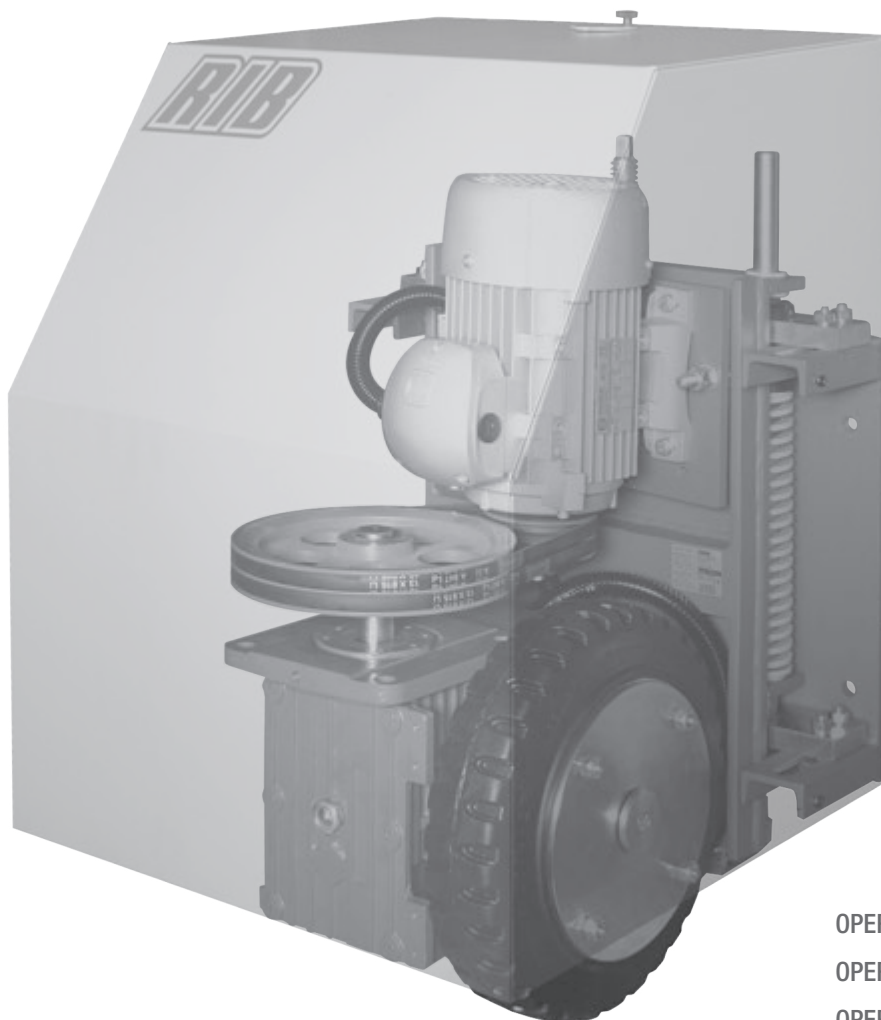


R60

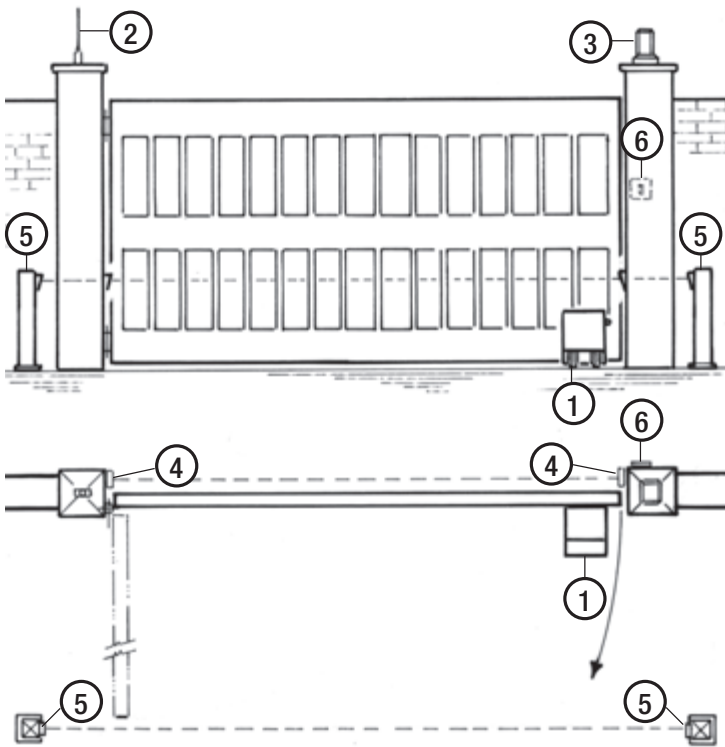
CE



OPERATORE PER PORTONI INDUSTRIALI
OPERATEUR POUR PORTAILS INDUSTRIELS
OPERATOR FOR INDUSTRIAL DOORS
TORANTRIEB FÜR INDUSTRIETORE

Operatore Operateur Operator Torantrieb Operador	Alimentazione Alimentation Power Supply Stromspannung Alimentacion	Peso max cancello Poids maxi portail Max gate weight Max Torgewicht Peso máx verja	Codice Code Code Kode Codigo
R60	400/380V -50/60Hz	12.000 kg / 26.750 lbs	AA22002

SYSTEM LAY-OUT



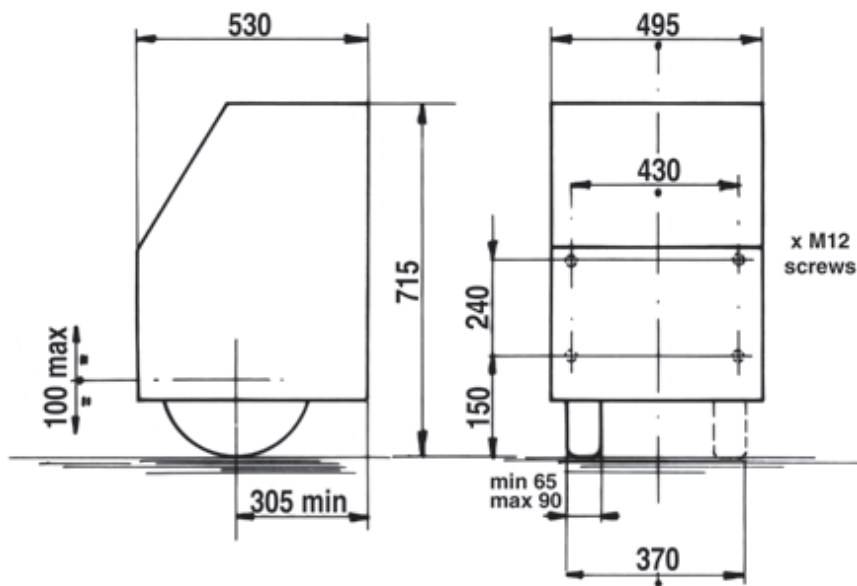
- 1 - R60 operator
- 2 - Radio antenna
- 3 - Blinker
- 4 - Photoelectric cells (external)
- 5 - Photoelectric cells (internal)
- 6 - Key selector

TECHNICAL FEATURES

Gearmotor for moving industrial leaf-gates (not opening onto public roads) with maximum weight of 12.000 kg.
 The R60 is an irreversible gearmotor with a driving power which can be varied in accordance with the pressure exerted by the drive wheel on the ground.
 Drive transmission between motor and gearmotor is by means of V-belts to avoid mechanical damage due to recoil shock transmitted from the gate at travel start, travel end, and during direction change. The drive wheel tolerates approx. 10 cm level difference as the gearmotor unit runs on vertical chromed ways.
 Wheel/ground pressure is variable from 150 to 600 kg and is maintained by special adjustable springs.

TECHNICAL DATA		R60
Max. leaf length	m	15
Max. leaf weight	kg	12.000
Average opening time 90°	s	116,5
Operating speed	m/s	0,164 (50Hz) - 0,196 (60Hz)
Power supply		400V 3~ 50/60Hz
Motor capacity	W	1.100
Power absorbed	A	3,1
230/50-60 Normative cycles	n°	50 - 100s/2s
Daily cycles suggested	n°	300
Service	%	100
Consecutive cycles guaranteed	n°	300
Lubrication		IP MELLANA 100
Poids du moteur	kg	156
Temperature de travail	°C	-10 ÷ +55
Indice de protection	IP	55

1



Measurements in mm

2

R60 INSTALLATION

PRE-INSTALLATION CHECKS

The leaf must be fixed firmly on the hinges to the pillars, must not be flexible during the movement and must move without frictions.

The ground on which the R60 wheel runs must be solid and compact with minimum gradient. **Gate features must be uniformed with the standards and laws in force.** The door/gate can be automated only if it is in a good condition and its conditions comply with the EN 12604 norm.

- The door/gate leaf does not have to have a pedestrian opening. In the opposite case it is necessary to take the appropriate steps, in accordance with EN 12453 norm (for instance; by preventing the operation of the motor when the pedestrian opening is opened, by installing a safety microswitch connected with the control panel).
- No mechanical stop shall be on top of the gate, since mechanical stops are not safe enough.

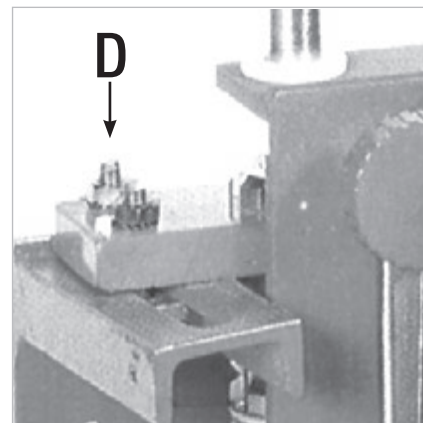
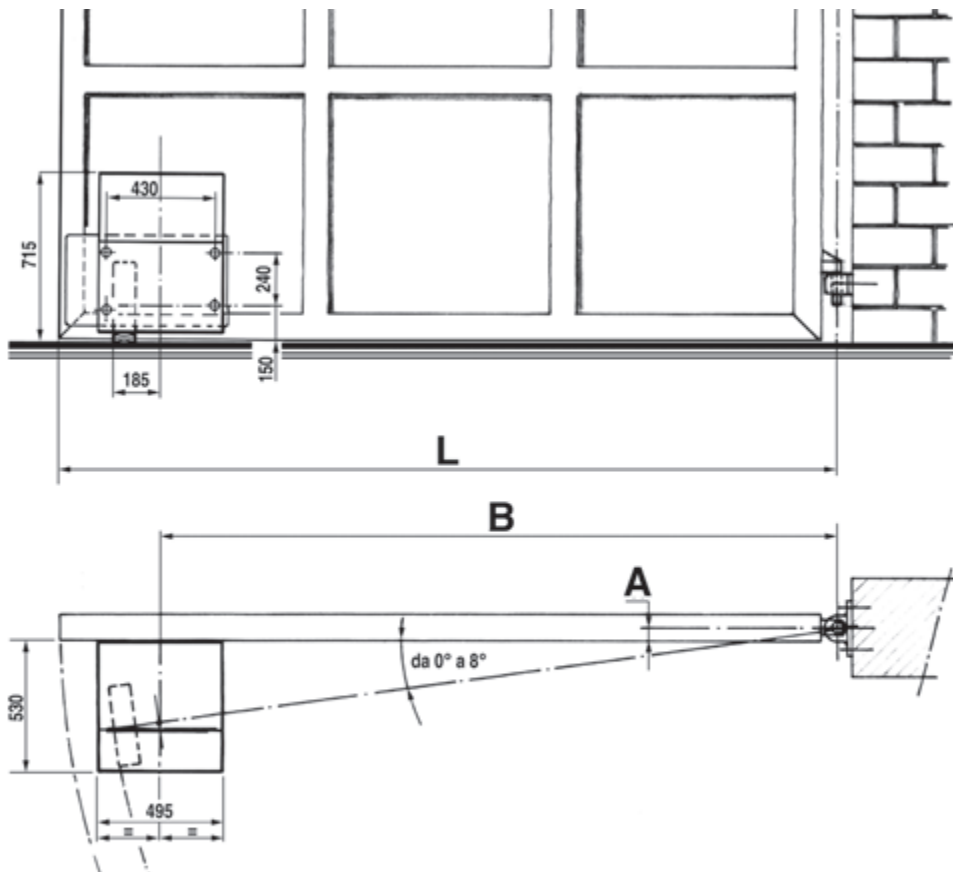
Parts to install meeting the EN 12453 standard			
COMMAND TYPE	USE OF THE SHUTTER		
	Skilled persons (out of public area*)	Skilled persons (public area)	Unrestricted use
with manned operation	A	B	non possible
with visible impulses (e.g. sensor)	C or E	C or E	C and D, or E
with not visible impulses (e.g. remote control device)	C or E	C and D, or E	C and D, or E
automatic	C and D, or E	C and D, or E	C and D, or E

* a typical example are those shutters which do not have access to any public way
A: Command button with manned operation (that is, operating as long as activated), like code ACG2013
B: Key selector with manned operation, like code ACG1010
C: Adjustable power of the motor
D: Safety strips and/or other safety devices to keep thrust force within the limits of EN12453 regulation - Appendix A.
E: Photocells, like code ACG8026 (To apply every 60÷70cm for all the height of the column of the gate up to a maximum of 2,5m - EN 12445 point 7.3.2.1)

R60 INSTALLATION

- The ground must be solid and even, at least over the wheel travel area.
- Fix the gearmotor base plate onto the corner of the leaf so that the wheel touches the ground.
- Fix base plate by drilling four ø 10 mm holes.
- Thread holes with a M12 tap, fit 4 screws and tighten with a no. 19 wrench (pic. 3).
- Using the ratchet spanner provided, slide the rod down to the block.

If the wheel slips on the ground, adjust the ring nut for the springs by turning it clockwise to increase wheel/ground pressure.
To avoid excessive wheel wear during movement loosen the nuts (D) with a no. 13 spanner and angle the wheel so that its axis is aligned with the pivot of the door hinge.
Wheel angle may vary from 0° to 8°.



$$B \text{ min} = (0,31+A) / 0,14 \text{ [m]}$$

$$B = 0,81 \times L \text{ [m]}$$

$$\text{Opening time} = 7,77 \times L \text{ [sec]}$$

EMERGENCY RELEASE

To be undertaken after disconnecting power supply.

In the case of power failure use the spanner provided and operate the emergency release lever to lift the wheel.

In order to carry out the manual operation of the gate leaf the followings must be checked:

- That the gate is endowed with appropriate handles;
- That these appropriate handles are placed so to avoid safety risks for the operator;
- That the physical effort necessary to move the gate leaf should not be higher than 225 N, for doors/gates for private dwellings, and, 390N for doors/gates for commercial and industrial sites (values indicated in 5.3.5 of the EN 12453 norm).

A: Maximum stroke 100 mm during movement (holes or uneven ground)

B: Rod

C: Position of rod (B) during installation

D: Position of rod (B) during movement

E: Block

ELECTRICAL SAFETY DEVICES

The installation must be installed according to the current regulations and laws.

We recommend the use of a KS2/R2 control panel.

For connections and technical data of accessories refer to the appropriate booklets.

R60 APPLICATION ON MULTIPLE PANEL DOORS

In this case the R60 must be installed on the first leaf and will require two wheels with tyres.

MAINTENANCE

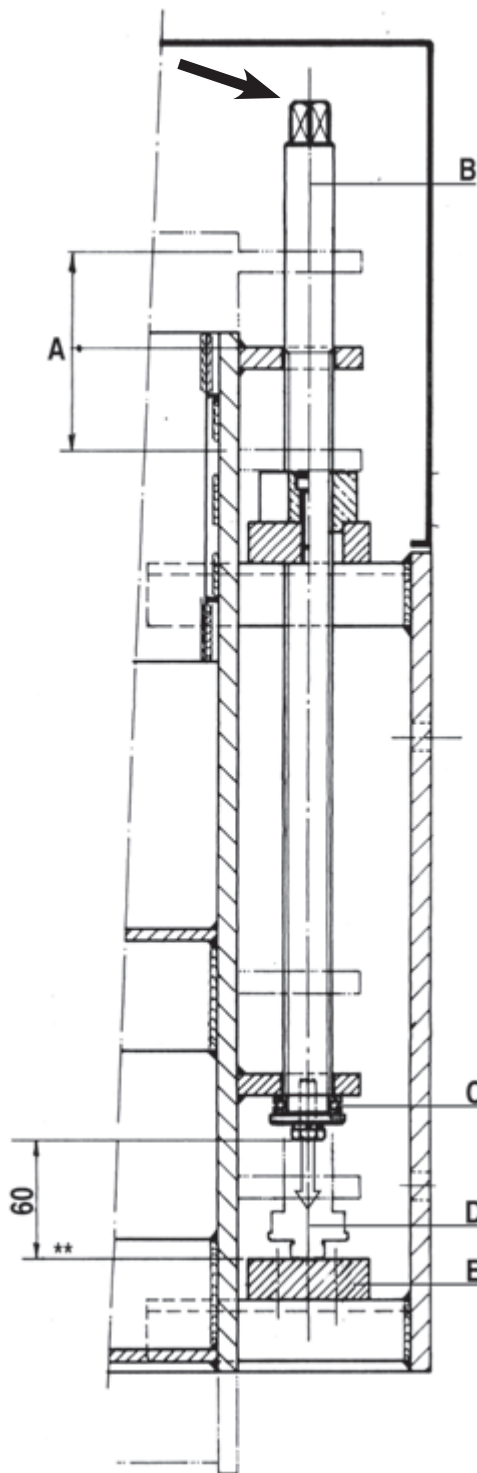
To be undertaken by specialized staff after disconnecting power supply.

Clean the wheel contact surfaces carefully once a week.

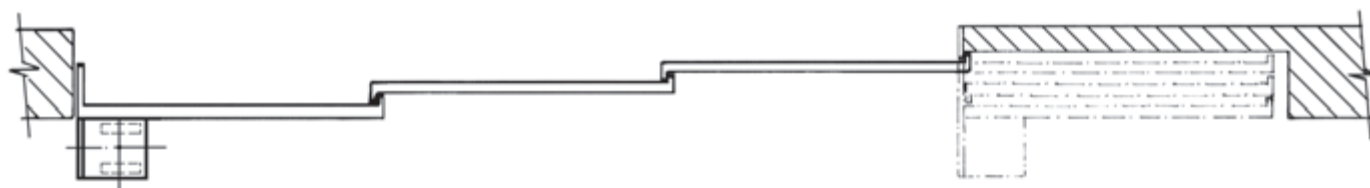
Check wheel/ground pressure, V-belt tension, oil level and condition of motor every six months.

The motor should be overhauled every two years and the oil and V-belts replaced.

ALWAYS USE AN OPEN/CLOSE PUSH BUTTON WHICH IS DESIGNED TO PREVENT THE POSSIBILITY OF SIMULTANEOUSLY SENDING THE OPPOSITE COMMAND OF OPENING AND CLOSING AND AVOID SO A DAMAGE TO THE MOTOR.



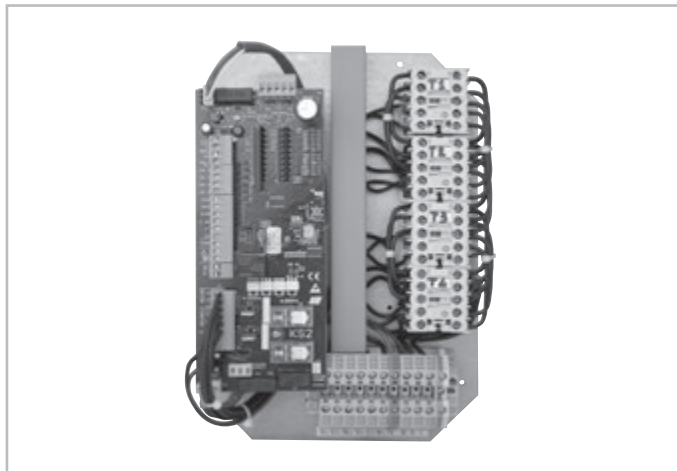
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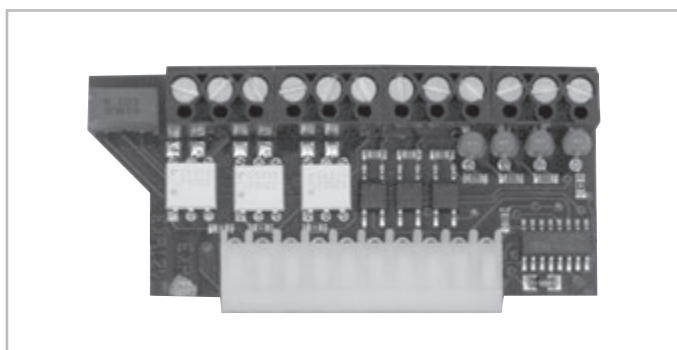
ACCESSORIES - For the connections and the technical data of the optional equipments follow the relevant handbooks.

KS2/R2



- Automatic travel and timing code learning system
 - Automatic closure
 - Pre-blinking
 - Slow speed in close position approach
 - Electronic adjustment of the force
 - Radio command - step by step or automatic
 - Single command - step by step or automatic
 - Directional open and close commands (with timer control)
 - Electric lock release operation
 - Stop command
 - Connectable to encoder to detect obstacle - photocells - strips - blinker - key selector - buzzer - electric lock
- code ABKS160

EXPANDER CARD



!! FEED THE EXP CARD IN WHEN POWER IS NOT SUPPLIED !!

- PEDESTRIAN OPENING COMMAND
 - AUTOMATIC PEDESTRIAN CLOSING
 - MANAGEMENT OF THE SAFETY EDGE
 - 24VAC ACCESSORIES FEEDING
 - MANAGEMENT OF THE TRAFFIC LIGHT CONTR
 - MANAGEMENT OF THE COURTESY LIGHT
 - CLOSING COMMAND AFTER PASSING THROUGH THE PHOTOCELLS*
- code ACG5470

RADIO TRANSMITTER SUN



- | | | | |
|---------------|--------------|---------------|--------------|
| SUN 2CH | code ACG6052 | SUN 4CH | code ACG6054 |
| SUN CLONE 2CH | code ACG6056 | SUN CLONE 4CH | code ACG6058 |

CODE LEARNIG SYSTEM RADIORECEIVERS



- | | | |
|-------------|---|--------------|
| RX433/A | super eterodyne and coupling | code ACG5055 |
| RX433/A | super eterodyne and terminal board | code ACG5056 |
| RX433/A 2CH | super eterodyne, 2 channel and coupling | code ACG5051 |
| RX433/A 2CH | super eterodyne, 2 channel and terminal board | code ACG5052 |

SPARK



In order to make the systems mentioned above give the best performances, you need to install an antenna tuned on the frequency of the radio receiver installed.

N.B. Pay attention to not let the central wire of the cable to come into contact with the external copper sheath, since this would prevent the antenna from working.

Install the antenna vertically and in such a way the remote control can reach it.

- | | |
|---|--------------|
| SPARK BLINKER WITH IN-BUILT INTERMITTENT CARD | code ACG7059 |
| LATERAL SUPPORT | code ACG7042 |
| SPARK ANTENNA 433 | code ACG5452 |

FIT SYNCRO



FIT SYNCRO PHOTOCELLS for the wall-installation code ACG8026
 The range you can set is 10-20 m, 30±60 ft.
 You can fit many couples close together thanks to the synchronising circuit.
 Add the **SYNCRO TRANSMITTER** code ACG8028
 for more than 2 photocells couples (up to 4).
COUPLE OF BUILT-IN BOXES FOR THE FIT SYNCRO code ACG8051

ADDITIONAL WHEEL



code ACG8550

ELECTRIC LOCK



Horizontal lock - right external view - 12Vac code ACG8660
 Horizontal lock - left external view - 12Vac code ACG8670
 Vertical lock - 12Vac code ACG8650

MECHANICAL BOLT



Mechanical bolt suitable for 2 leaves gate to latch closed the gate to the ground.
 code ACG5000

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>